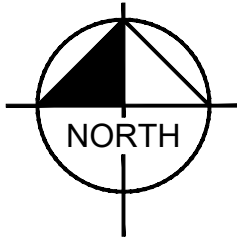
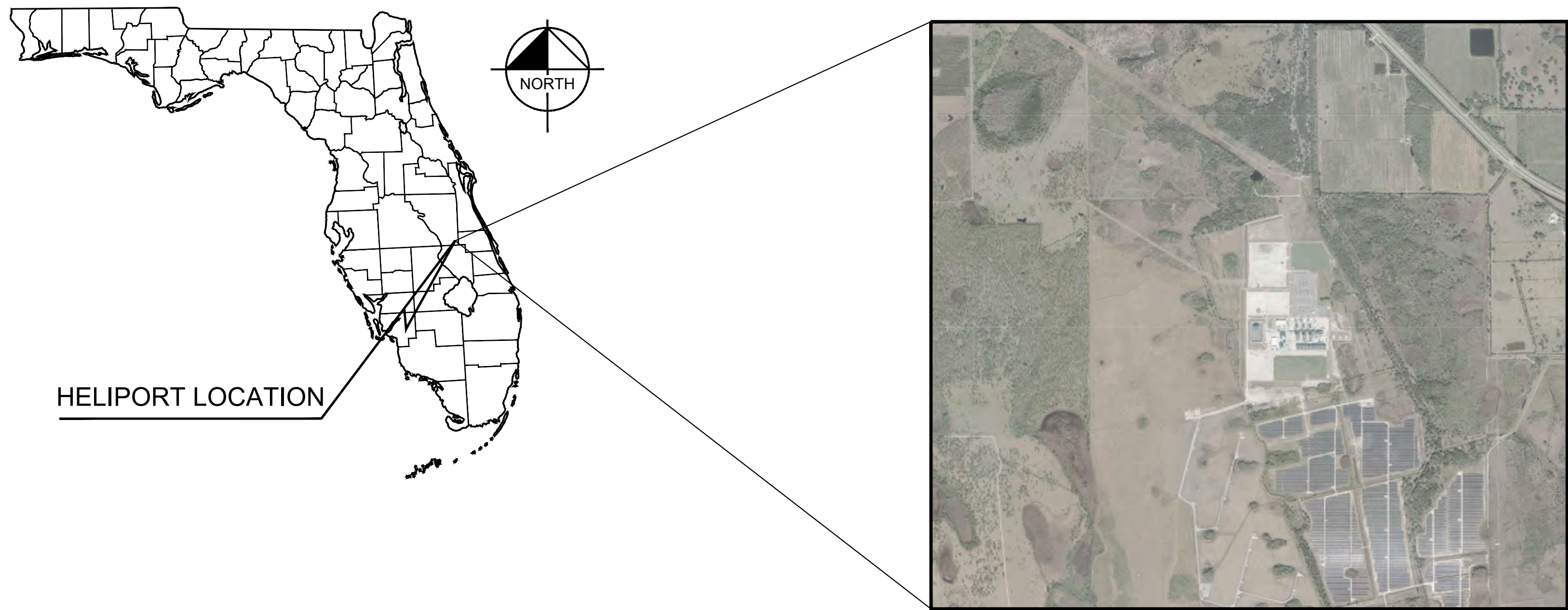


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CONSTRUCTION PLANS FOR FLORIDA POWER & LIGHT COMPANY OKEECHOBEE, FLORIDA FPL OCEC HELISTOP



VICINITY MAP
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KHA PROJECT
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DATE:

SCALE AS SHOWN

DESIGNED BY TFO

DRAWN BY HHO

CHECKED BY TFO

DATE:

COVER SHEET

FPL OCEC HELISTOP

FLORIDA

OKEECHOBEE

SHEET NUMBER

CVR

No.

REVISIONS

DATE

BY

HELISTOP GENERAL NOTES:

1. EXCAVATION, SUBGRADE, AND EMBANKMENT

1.1 DESCRIPTION. THIS ITEM COVERS PLACEMENT, AND COMPACTION OF ALL MATERIALS WITHIN THE LIMITS OF THE WORK REQUIRED TO CONSTRUCT SAFETY AREAS, FINAL APPROACH AND TACKOFF AREA (FATO), AND TOUCHDOWN AND LIFTOFF AREA (TLOF) AREAS OF THE

1.2 GENERAL. BEFORE BEGINNING EXCAVATION, GRADING, AND EMBANKMENT OPERATION IN ANY AREA, THE AREA SHALL BE COMPLETELY CLEARED AND GRUBBED. THE SUITABILITY OF MATERIAL TO BE PLACED IN EMBANKMENTS SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER. ALL UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFFSITE. PROTECT ALL EXISTING SURFACE DRAINAGE, SEWERS OR UNDER-DRAINAGE, CONDUITS, UTILITIES, OR SIMILAR UNDERGROUND STRUCTURES. THE CONTRACTOR, AT HIS OR HER EXPENSE, SHALL SATISFACTORILY REPAIR OR PAY THE COST OF ALL DAMAGE TO SUCH FACILITIES OR STRUCTURES THAT MAY RESULT FROM ANY OF THE CONTRACTOR'S OPERATIONS DURING THE PERIOD OF THE CONTRACT.

1.3 PREPARATION OF EMBANKMENT AREA. THE CLEARED SURFACE SHALL BE BROKEN UP BY PLOWING OR SCARIFYING TO A MINIMUM DEPTH OF 6 INCHES AND SHALL THEN BE COMPACTED AS INDICATED BELOW 1.4.

1.4. FORMATION OF EMBANKMENTS. EMBANKMENTS SHALL BE FORMED IN SUCCESSIVE HORIZONTAL LAYERS OF NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR THE FULL WIDTH OF THE CROSS-SECTION, UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE LAYERS SHALL BE PLACED, TO PRODUCE A SOIL STRUCTURE AS SHOWN ON THE TYPICAL CROSS-SECTION. MATERIALS SUCH AS BRUSH, HEDGE, ROOTS, STUMPS, GRASS AND OTHER ORGANIC MATTER, SHALL NOT BE INCORPORATED OR BURIED IN THE EMBANKMENT. EARTHWORK OPERATIONS SHALL BE SUSPENDED AT ANY TIME WHEN SATISFACTORY RESULTS CANNOT BE OBTAINED BECAUSE OF RAIN, OR OTHER UNSATISFACTORY WEATHER CONDITIONS IN THE FIELD. MATERIAL SHALL NOT BE PLACED ON SURFACES THAT ARE MUDDY.

THE MATERIAL IN EACH LAYER SHALL BE WITHIN $\pm 2\%$ OF OPTIMUM MOISTURE CONTENT BEFORE ROLLING TO OBTAIN THE PRESCRIBED COMPACTION. TO ACHIEVE A UNIFORM MOISTURE CONTENT THROUGHOUT THE LAYER, THE MATERIAL SHALL BE MOISTENED OR AERATED AS NECESSARY. SAMPLES OF ALL EMBANKMENT MATERIALS FOR TESTING, BOTH BEFORE AND AFTER PLACEMENT AND COMPACTION, WILL BE TAKEN FOR EACH 1,000 SQUARE YARDS OF MATERIAL PLACED PER LAYER. BASED ON THESE TESTS, THE CONTRACTOR SHALL MAKE THE NECESSARY CORRECTIONS AND ADJUSTMENTS IN METHODS, MATERIALS OR MOISTURE CONTENT TO ACHIEVE THE SPECIFIED EMBANKMENT DENSITY.

ROLLING OPERATIONS SHALL BE CONTINUED UNTIL THE EMBANKMENT IS COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DENSITY OF NONCOHESIVE SOILS, AND 90% OF MAXIMUM DENSITY OF COHESIVE SOILS AS DETERMINED BY ASTM [D698]. UNDER ALL AREAS TO BE PAVED, THE EMBANKMENTS SHALL BE COMPACTED TO A DEPTH OF 12" AND TO A DENSITY OF NOT LESS THAN 100% PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698.

ON ALL AREAS OUTSIDE OF THE PAVEMENT AREAS, NO COMPACTION WILL BE REQUIRED ON THE TOP 4 INCHES (100 MM).

THE IN-PACE FIELD DENSITY SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D6938 USING PROCEDURE A, THE DIRECT TRANSMISSION METHOD, AND ASTM D6938 SHALL BE USED TO DETERMINE THE MOISTURE CONTENT OF THE MATERIAL. THE MACHINE SHALL BE CALIBRATED IN ACCORDANCE WITH ASTM D6938. THE CONTRACTOR'S LABORATORY SHALL PERFORM ALL DENSITY TESTS IN THE ENGINEER'S PRESENCE AND PROVIDE THE TEST RESULTS UPON COMPLETION TO THE ENGINEER FOR ACCEPTANCE.

COMPACTION AREAS SHALL BE KEPT SEPARATE, AND NO LAYER SHALL BE COVERED BY ANOTHER LAYER UNTIL THE PROPER DENSITY IS OBTAINED.

NO SUBBASE, BASE, OR SURFACE COURSE SHALL BE PLACED ON THE SUBGRADE UNTIL THE SUBGRADE HAS BEEN APPROVED BY THE ENGINEER.

2. SUBBASE COURSE

2.1 DESCRIPTION. THIS ITEM SHALL CONSIST OF A SUBBASE COURSE COMPOSED OF GRANULAR MATERIALS CONSTRUCTED ON A PREPARED SUBGRADE OR UNDERLYING COURSE IN ACCORDANCE WITH THESE SPECIFICATIONS, AND IN CONFORMITY WITH THE DIMENSIONS AND TYPICAL CROSS-SECTION SHOWN ON THE PLANS.

2.2. MATERIALS. THE SUBBASE MATERIAL SHALL CONSIST OF HARD DURABLE PARTICLES OR FRAGMENTS OF GRANULAR AGGREGATES. THIS MATERIAL WILL BE MIXED OR BLENDED WITH FINE SAND, CLAY, STONE DUST, OR OTHER SIMILAR BINDING OR FILLER MATERIALS PRODUCED FROM APPROVED SOURCES. THIS MIXTURE MUST BE UNIFORM AND SHALL COMPLY WITH THE REQUIREMENTS OF THESE SPECIFICATION AS TO GRADATION, SOIL CONSTANTS, AND SHALL BE CAPABLE OF BEING COMPACTED INTO A DENSE AND STABLE SUBBASE. THE MATERIAL SHALL BE FREE FROM VEGETATION MATTER, LUMPS OR EXCESSIVE AMOUNTS OF CLAY, AND OTHER OBJECTIONABLE OR FOREIGN SUBSTANCES. PIT-RUN MATERIAL MAY BE USED, PROVIDED THE MATERIAL MEETS GRADATION REQUIREMENTS SPECIFIED.

GRADATION REQUIREMENTS:

SIEVE DESIGNATION (SQUARE OPENINGS) AS PEASTM C136 AND ASTM D422	PERCENTAGE BY WEIGHT PASSING SIEVES
3 INCH (75 MM)	100
NO. 10 (2.0 MM)	20–100
NO. 40 (0.450 MM)	5–60
NO. 200 (0.075 MM)	0–8

COMPACTION AREAS SHALL BE KEPT SEPARATE, AND NO LAYER SHALL BE COVERED BY ANOTHER LAYER UNTIL THE PROPER DENSITY IS OBTAINED.

NO SUBBASE, BASE, OR SURFACE COURSE SHALL BE PLACED ON THE SUBGRADE UNTIL THE SUBGRADE HAS BEEN APPROVED BY THE ENGINEER.

2.3 SAMPLING AND TESTING. MATERIAL USED ON THE PROJECT SHALL BE SAMPLED PER ASTM D75 AND TESTED PER ASTM C136 AND ASTM C117.

2.4 GENERAL THE SUBBASE COURSE SHALL BE PLACED WHERE DESIGNATED ON THE PLANS. THE MATERIAL SHALL BE SHAPED AND THOROUGHLY COMPACTED WITHIN THE TOLERANCES SPECIFIED.

2.5 GENERAL METHODS FOR PLACING. THE SUBBASE COURSE SHALL BE CONSTRUCTED IN LAYERS OF NOT LESS THAN 4 INCHES. THE SUBBASE MATERIAL SHALL BE DEPOSITED AND SPREAD EVENLY TO A UNIFORM THICKNESS AND WIDTH. THE MATERIAL, AS SPREAD, SHALL BE OF UNIFORM GRADATION WITH NO POCKETS OF FINE OR COARSE MATERIAL. THE SUBBASE, UNLESS OTHERWISE PERMITTED BY THE ENGINEER, SHALL NOT BE SPREAD MORE THAN 2,000 SQUARE YARDS IN ADVANCE OF THE ROLLING. ANY NECESSARY SPRINKLING SHALL BE KEPT WITHIN THIS LIMIT. NO MATERIAL SHALL BE PLACED ON A SOFT OR MUDDY COURSE. DURING THE PLACING AND SPREADING, SUFFICIENT CAUTION SHALL BE EXERCISED TO PREVENT THE INCORPORATION OF SUBGRADE, SHOULDER, OR FOREIGN MATERIAL IN THE SUBBASE COURSE MIXTURE.

2.6 FINISHING AND COMPACTION: AFTER SPREADING OR MIXING, THE SUBBASE MATERIAL SHALL BE THOROUGHLY COMPACTED BY A ROLLING AND SPRINKLING, WHEN NECESSARY. SUFFICIENT ROLLER SHALL BE FURNISHED ADEQUATELY HANDLE THE RATE OF PLACING AND SPREADING OF THE SUBBASE COURSE.

THE FIELD DENSITY OF THE COMPACTED MATERIAL SHALL BE AT LEAST 100% OF THE MAXIMUM DENSITY OF LABORATORY SPECIMENS PREPARED FROM SAMPLES OF THE SUBBASE MATERIAL DELIVERED TO THE JOBSITE. THE LABORATORY SPECIMENS SHALL BE COMPACTED AND TESTED IN ACCORDANCE WITH ASTM D698. THE IN-PLACE FIELD DENSITY SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D6938 SHALL BE USED TO DETERMINE THE MOISTURE CONTENT OF THE MATERIAL. THE MACHINE SHALL BE CALIBRATED IN ACCORDANCE WITH ASTM D6938. THE MOISTURE CONTENT OF THE MATERIAL AT THE START OF COMPACTION SHALL BE WITHIN $\pm 2\%$ OF THE OPTIMUM MOISTURE CONTENT. ALL TESTING SHALL BE DONE BY THE CONTRACTOR'S LABORATORY IN THE PRESENCE OF THE ENGINEER, AND DENSITY TEST RESULTS SHALL BE FURNISHED UPON COMPLETION TO THE ENGINEER FOR ACCEPTANCE DETERMINATION.

THE COURSE SHALL NOT BE ROLLED WHEN UNDERLYING COURSE IS SOFT OF YIELDING OR WHEN THE ROLLING CAUSES UNDULATION IN THE SUBBASE. WHEN THE ROLLING DEVELOPS IRREGULARITIES THAT EXCEED 3/8 INCH (9 MM) WHEN TESTED WITH A 12 FEET (3.7 M) STRAIGHTEDGE, THE IRREGULAR SURFACE SHALL BE LOOSENEED AND THEN REFILLED WITH THE SAME KIND OF MATERIAL AS THE USED IN CONSTRUCTING THE COURSE AND AGAIN ROLLED AS REQUIRED ABOVE.

SPRINKLING DURING ROLLING, IF NECESSARY, SHALL BE BY EQUIPMENT APPROVED BY THE ENGINEER. WATER SHALL NOT BE ADDED IN A MANNER OR QUANTITY THAT ALLOWS FREE WATER TO REACH THE UNDERLYING LAYER AND CAUSE IT TO BECOME SOFT.

3. PORTLAND CEMENT CONCRETE

3.1 DESCRIPTION USE CONCRETE COMPOSED OF A MIXTURE OF PORTLAND CEMENT, AGGREGATE, WATER, AND, WHERE SPECIFIED, ADMIXTURES, POZZOLAN AND GROUND GRANULATED BLAST FURNACE SLAG. DELIVER THE PORTLAND CEMENT CONCRETE TO THE SITE OF PLACEMENT IN A FRESHLY MIXED, UNHARDENED STATE. OBTAIN CONCRETE FROM A PLANT THAT IS CURRENTLY ON THE FLORIDA DEPARTMENT OF TRANSPORTATION'S PRODUCTION FACILITY LISTING.

3.2 TYPES OF CEMENT: TYPE I

3.3 POZZOLANS AND SLAG: FLY ASH OR SLAG MATERIALS ARE REQUIRED IN ALL CLASSES OF CONCRETE. USE FLY ASH OR SLAG MATERIALS AS A CEMENT REPLACEMENT, ON AN EQUAL WEIGHT REPLACEMENT BASIS WITH THE FOLLOWING LIMITATIONS:

A. FLY ASH – ENSURE THAT THE QUANTITY OF CEMENT REPLACED WITH FLY ASH IS 18% TO 30% BY WEIGHT.

B. SLAG – ENSURE THAT THE QUANTITY OF CEMENT REPLACED WITH SLAG IS 25% TO 70% FOR SLIGHTLY AND MODERATELY AGGRESSIVE ENVIRONMENTS AND 50% TO 70% BY WEIGHT WHEN USED IN EXTREMELY AGGRESSIVE ENVIRONMENTS. ENSURE THAT SLAG IS 50% TO 55% OF TOTAL CEMENTITIOUS CONTENT BY WEIGHT WHEN USED IN COMBINATION WITH SILICA FUME, ULTRA FINE FLY ASH AND/OR METAKOLIN.

C. FLY ASH AND SLAG (TERNARY BLEND) – ENSURE THAT THERE IS 10% TO 20% FLY ASH, 50% TO 60% SLAG BY WEIGHT, AND 40% PORTLAND CEMENT BY WEIGHT FOR MIXES CONTAINING PORTLAND CEMENT, FLY ASH AND SLAG.

3.4 COARSE AGGREGATE GRADATION: PRODUCE ALL CONCRETE USING SIZE NO. 57, 67 OR 78 COARSE AGGREGATE.

3.5 ADMIXTURESUSE ADMIXTURES IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SUBARTICLE.

USE ADMIXTURES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED DOSAGE RATE. DOSAGE RATES OUTSIDE OF THIS RANGE MAY BE USED WITH WRITTEN RECOMMENDATION FROM THE ADMIXTURE PRODUCER'S TECHNICAL REPRESENTATIVE. DO NOT USE ADMIXTURES OR ADDITIVES CONTAINING CALCIUM CHLORIDE (EITHER IN THE RAW MATERIALS OR INTRODUCED DURING THE MANUFACTURING PROCESS) IN REINFORCED CONCRETE.

3.5.1 WATER-REDUCER/WATER-REDUCER RETARDANT ADMIXTURES: WHEN A WATER-REDUCING ADMIXTURE IS USED, MEET THE REQUIREMENTS OF A TYPE A. WHEN A WATER-REDUCING AND RETARDING ADMIXTURE IS USED, MEET THE REQUIREMENTS OF A TYPE D.

3.5.2 AIR ENTRAINMENT ADMIXTURE. AN AIR ENTRAINING ADMIXTURE IN ALL CONCRETE MIXES EXCEPT COUNTERWEIGHT CONCRETE. FOR PRECAST CONCRETE PRODUCTS, THE USE OF AIR ENTRAINING ADMIXTURE IS OPTIONAL FOR CLASS I AND CLASS II CONCRETE.

3.5.3 HIGH RANGE WATER-REDUCING ADMIXTURES: WHEN A HIGH RANGE WATER-REDUCING ADMIXTURE IS USED, MEET THE REQUIREMENTS OF A TYPE F OR TYPE I. WHEN A HIGH RANGE WATER-REDUCING AND RETARDING ADMIXTURE IS USED, MEET THE REQUIREMENTS OF A TYPE G OR TYPE II. WHEN SILICA FUME OR METAKAOLIN IS INCORPORATED INTO A CONCRETE MIX DESIGN, USE A HIGH RANGE WATER-REDUCING ADMIXTURE TYPE I, II, F OR G.

3.6 CLASSIFICATION, STRENGTH, SLUMP AND AIR CONTENT.

CLASS OF CONCRETE	MINIMUM STRENGTH (28-DAY) (PSI)	SLUMP VALUE (INCHES)	AIR CONTACT RANGE
I (PAVEMENT)	4,400	2 +/- 1.5	1.0 TO 6.0%

3.7 COMPOSITION OF CONCRETE.

CLASS OF CONCRETE	MINIMUM TOTAL CEMENTITIOUS MATERIALS CONTENT POUNDS PER CUBIC YARD	MAXIMUM WATER TO CEMENTITIOUS MATERIAL RATIO POUNDS PER POUNDS*
MATERIALS RATIO POUNDS PER POUNDS* 1 (PAVEMENT) 4700.50* THE CALCULATION OF THE WATER TO CEMENTITIOUS MATERIALS RATIO (W/CM) IS BASED ON THE TOTAL CEMENTITIOUS MATERIAL INCLUDING CEMENT AND ANY SUPPLEMENTA		

* THE CALCULATION OF THE WATER TO CEMENTITIOUS MATERIALS RATIO (W/CM) IS BASED ON THE TOTAL CEMENTITIOUS MATERIAL INCLUDING CEMENT AND ANY SUPPLEMENTAL CEMENTITIOUS MATERIALS THAT ARE USED IN THE MIX.

3.8 CHLORIDE CONTENT LIMITS FOR CONCRETE CONSTRUCTION: MAXIMUM ALLOWABLE CHLORIDE CONTENT, POUNDS PER CUBIC YARD 0.40

3.9 ACCEPTANCE SAMPLING AND TESTING. CAST A SET OF THREE QC CYLINDERS, FOR ALL STRUCTURAL CONCRETE INCORPORATED INTO THE PROJECT. TAKE THESE ACCEPTANCE SAMPLES RANDOMLY AS DETERMINED BY A RANDOM NUMBER GENERATOR. DELIVER THE QC SAMPLES TO THE FINAL CURING FACILITY IN ACCORDANCE WITH ASTM C 31. TEST THE QC LABORATORY CURED SAMPLES FOR COMPRESSIVE STRENGTH AT THE AGE OF 28 DAYS, OR ANY OTHER SPECIFIED AGE. AS A MINIMUM, SAMPLE AND TEST CONCRETE OF EACH DESIGN MIX FOR WATER TO CEMENTITIOUS MATERIALS RATIO, AIR CONTENT, TEMPERATURE, SLUMP AND COMPRESSIVE STRENGTH ONCE PER 2,000 SQUARE YARDS OR 1 DAY'S PRODUCTION - WHICHEVER IS LESS.

3.10 ACCEPTANCE OF CONCRETE. CONCRETE WILL BE ACCEPTED BASED ON THE SATISFACTORY COMPRESSIVE STRENGTH OF THE QC CYLINDERS. PROVIDE CERTIFICATION TO THE ENGINEER THAT THE CONCRETE WAS BATCHED AND PLACED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

SHEET NUMBER G-01	FPL OCEC HELISTOP	KHEACHOEBEE	FLORIDA	GENERAL NOTES	KHA PROJECT 144196085 DATE: SCALE AS SHOWN DESIGNED BY TFO DRAWN BY THO CHECKED BY TFO 	 Kimley » Horn 8201 PETERS ROAD SUITE 2200 PLANTATION, FL 33324 © 2019 KIMLEY-HORN AND ASSOCIATES, INC. PHONE: 954-739-2247 FAX: 954-739-2247 WWW.KIMLEY-HORN.COM CA 00000696	No.	REVISIONS	DATE	BY
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HELISTOP GENERAL NOTES:

4. LIME ROCK BASE COURSE

4.1 DESCRIPTION. THIS ITEM SHALL CONSIST OF A BASE COURSE COMPOSED OF LIME ROCK CONSTRUCTED ON THE PREPARED UNDERLYING COURSE PER THESE SPECIFICATIONS AND SHALL CONFORM TO THE DIMENSIONS AND TYPICAL CROSS-SECTION SHOWN ON THE PLANS.

4.2 MATERIALS. THE LIME ROCK BASE COURSE MATERIAL SHALL CONSIST OF FOSSILIFEROUS LIMESTONE OF UNIFORM QUALITY. THE MATERIAL SHALL NOT CONTAIN HARD OR FLINTY PIECES THAT WILL CAUSE A ROUGH SURFACE CONTAINING PITS AND POCKETS. THE ROCK SHALL SHOW NO TENDENCY TO "AIR SLAKE" OR UNDERGO CHEMICAL CHANGE WHEN EXPOSED TO THE WEATHER. THE MATERIAL WHEN WATERED AND ROLLED SHALL BE CAPABLE OF COMPACTING TO A DENSE AND WELL-BONDED BASE.

THE COMBINED AMOUNT OF CARBONATES, OXIDES, AND SILICA SHALL BE AT LEAST 97%. THE MATERIAL SHALL BE NON-PLASTIC.

ALL OTHER TYPES OF LIME ROCK SHALL CONTAIN NOT LESS THAN 95% OF CARBONATES OF CALCIUM AND MAGNESIUM. LIQUID LIMIT SHALL NOT EXCEED 35 AND PLASTICITY INDEX SHALL NOT EXCEED SIX (6) PER ASTM D4318.

THE CHEMICAL ANALYSIS OF LIME ROCK SHALL CONSIST OF DETERMINING THE INSOLUBLE SILICA, IRON OXIDE, AND ALUMINA BY SOLUTION OF THE SAMPLE IN HYDROCHLORIC (HCL) ACID, EVAPORATING, DEHYDRATING, RE-DISSOLVING THE RESIDUE, AND NEUTRALIZING WITH AMMONIUM HYDROXIDE, FILTERING, WASHING, AND IGNITING THE RESIDUE LIME ROCK. THE DIFFERENCE BETWEEN THE PERCENTAGE OF INSOLUBLE MATTER AND 100% IS REPORTED AS CARBONATES OF CALCIUM AND MAGNESIUM.

THE LIME ROCK SHALL NOT CONTAIN MORE THAN 0.5% OF ORGANIC, OR FOREIGN MATTER. IT SHALL BE OBTAINED FROM PITS WHERE ALL OVERBURDEN HAS BEEN REMOVED PRIOR TO BLASTING AND QUARRYING.

THE GRADATION OF THE LIME ROCK SHALL MEET THE FOLLOWING REQUIREMENTS:

SIEVE DESIGNATION (SQUARE OPENING)	PERCENTAGE BY WEIGHT PASSING SIEVES
3-1/2 INCH (90 MM)	100
3/4 INCH (19 MM)	50-100

ALL FINE MATERIAL SHALL CONSIST ENTIRELY OF DUST OF FRACTURE (FINE PORTION PASSING THE NO. 10 (2 MM) SIEVE).

4.3 CONSTRUCTION METHODS

4.3.1 SOURCES OF SUPPLY. ALL WORK INVOLVED IN CLEARING AND STRIPPING PITS, INCLUDING THE HANDLING OF UNSUITABLE MATERIAL SHALL BE PERFORMED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THE LIME ROCK SHALL BE OBTAINED FROM SOURCES CERTIFIED BY THE FLORIDA DEPARTEMENT OF TRANSPORTATION. THE PITS SHALL BE OPERATED TO PRODUCE A CLEAN AND UNIFORM MATERIAL.

4.3.2 EQUIPMENT. ALL EQUIPMENT NECESSARY FOR CONSTRUCTION OF THIS WORK SHALL BE ON THE PROJECT AND IN GOOD WORKING CONDITION, BEFORE CONSTRUCTION IS PERMITTED TO START.

4.3.3 PREPARING UNDERLYING COURSE. THE ENGINEER SHALL CHECK AND ACCEPT THE UNDERLYING COURSE BEFORE PLACING AND SPREADING OPERATIONS ARE STARTED. ANY RUTS OR SOFT YIELDING PLACES CAUSED BY IMPROPER DRAINAGE CONDITIONS, HAULING, OR ANY OTHER CAUSE SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE BEFORE THE BASE COURSE IS PLACED. MATERIAL SHALL NOT BE PLACED ON FROZEN SUBGRADE.

4.3.4 PLACING AND SPREADING. ALL BASE COURSE MATERIAL SHALL BE PLACED ON THE PREPARED UNDERLYING COURSE AND COMPACTED IN LAYERS. TO THE THICKNESS SHOWN ON THE PLANS. THE MATERIAL SHALL BE PLACED AND SPREAD ON THE PREPARED COURSE OR ON A COMPLETED LAYER WHERE DESIGNATED BY THE ENGINEER AND SHALL PROGRESS WITHOUT INTERRUPTION. THE BASE AGGREGATE SHALL BE SPREAD BY SPREADER BOXES OR OTHER APPROVED DEVICES. THE MATERIAL SHALL BE PLACED AND SPREAD IN LANES IN A UNIFORM LAYER WITHOUT SEGREGATION OF SIZE. THE MATERIAL SHALL BE PLACED AND SPREAD TO A LOOSE DEPTH THAT, WHEN COMPACTED, THE LAYER SHALL HAVE THE REQUIRED THICKNESS. WHEN MORE THAN ONE LAYER IS REQUIRED, THE CONSTRUCTION PROCEDURE DESCRIBED HERE SHALL APPLY TO EACH LAYER, EXCEPT ONLY THE TOP LAYER SHALL REQUIRE SCARIFYING AND ROLLING OF THE SURFACE.

THE ROCK SHALL BE TRANSPORTED OVER ROCK PREVIOUSLY PLACED AT THE END OF THE PRECEDING SPREAD TO LOCATIONS WHERE IT WILL BE USED. IT SHALL BE SPREAD UNIFORMLY WITH SHOVELS, FORKS, OR APPROVED MECHANICAL SPREADERS CONSTRUCTED FOR THIS PURPOSE. ROCK SHALL NOT BE DUMPED DIRECTLY ONTO THE UNDERLYING COURSE. TRANSPORTING OVER THE UNDERLYING COURSE WILL NOT BE PERMITTED UNLESS DIRECTED BY THE ENGINEER, AND THE UNDERLYING COURSE WILL BE PROTECTED BY PLANKING IF RUTTING OCCURS. DURING THE PLACING AND SPREADING OPERATIONS, THE ROCK SHALL BE BROUGHT TO THE PROPER MOISTURE CONTENT TO OBTAIN MAXIMUM DENSITY. IF WATER IS ADDED, IT SHALL BE UNIFORMLY MIXED TO THE FULL DEPTH OF THE COURSE BY DISCING. ALL SEGREGATED AREAS OF FINE OR COARSE ROCK SHALL BE REMOVED AND REPLACED WITH WELL-GRADED ROCK APPROVED BY THE ENGINEER. LIME ROCK SHALL NOT BE SPREAD WHEN THE SUBGRADE IS IN AN UNSUITABLE CONDITION.

THE LIME ROCK BASE COURSE SHALL BE CONSTRUCTED IN A LAYER NOT LESS THAN 4 INCHES (100 MM) NOR MORE THAN 6 INCHES (150 MM) OF COMPACTED THICKNESS. THE BASE COURSE SHALL BE CONSTRUCTED IN LANES OR STRIPS PARALLEL WITH THE CENTERLINE OF THE PAVED AREA.

DURING THE PLACING OPERATION, CAUTION SHALL BE EXERCISED TO PREVENT THE INCORPORATION OF SUBGRADE, SUBBASE, OR SHOULDER MATERIAL IN THE LIME ROCK.

4.3.5 COMPACTION. IMMEDIATELY AFTER COMPLETION OF THE SPREADING OPERATIONS, THE BASE MATERIAL SHALL BE THOROUGHLY COMPACTED. THE NUMBER, TYPE, AND WEIGHT OF ROLLERS SHALL BE SUFFICIENT TO COMPACT THE MIXTURE TO THE REQUIRED DENSITY.

THE FIELD DENSITY OF THE COMPACTED MATERIAL SHALL BE AT LEAST 100% OF THE MAXIMUM DENSITY OF LABORATORY SPECIMENS PREPARED FROM SAMPLES OF THE BASE MATERIAL. THE LABORATORY SPECIMENS SHALL BE COMPACTED AND TESTED PER ASTM D698. THE IN-PLACE FIELD DENSITY SHALL BE DETERMINED PER ASTM D1556. THE MOISTURE CONTENT OF THE MATERIAL AT THE START OF COMPACTION SHALL BE WITHIN $\pm 1-1/2$ PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT.

4.3.6 ACCEPTANCE SAMPLING AND TESTING FOR DENSITY. AGGREGATE BASE COURSE SHALL BE ACCEPTED FOR DENSITY ON A LUMP SUM BASIS. THE CONTRACTOR'S LABORATORY SHALL PERFORM ALL DENSITY TESTS IN THE ENGINEER'S PRESENCE AND PROVIDE THE TEST RESULTS UPON COMPLETION TO THE ENGINEER FOR ACCEPTANCE.

TWO TEST SHALL BE MADE ON THE BASE AND SHALL CONSIST OF THE AVERAGE OF TWO RANDOM LOCATIONS FOR DENSITY DETERMINATION. SAMPLING LOCATIONS WILL BE DETERMINED BY THE ENGINEER ON A RANDOM BASIS PER ASTM D3665.

THE BASE SHALL BE ACCEPTED FOR DENSITY WHEN THE FIELD DENSITY IS AT LEAST 100% OF THE MAXIMUM DENSITY OF LABORATORY SPECIMENS COMPACTED AND TESTED PER ASTM D698. THE IN-PLACE FIELD DENSITY SHALL BE DETERMINED PER ASTM D6938. IF THE SPECIFIED DENSITY IS NOT ATTAINED, THE ENTIRE LOT SHALL BE REWORKED AND/OR RECOMPACTED AND TWO ADDITIONAL RANDOM TESTS MADE. THIS PROCEDURE SHALL BE FOLLOWED UNTIL THE SPECIFIED DENSITY IS REACHED.

4.3.7 FINISHING. AFTER THE WATERING AND ROLLING OF THE BASE COURSE, THE ENTIRE SURFACE SHALL BE SCARIFIED TO A DEPTH OF AT LEAST 3 INCHES (75 MM) AND SHAPED TO THE EXACT CROWN AND CROSS-SECTION WITH A BLADE GRADER. THE SCARIFIED MATERIAL SHALL BE REWETTED AND THOROUGHLY ROLLED. ROLLING SHALL CONTINUE UNTIL THE BASE IS BONDED AND COMPACTED TO A DENSE, UNYIELDING MASS, TRUE TO GRADE AND CROSS-SECTION. SCARIFYING AND ROLLING OF THE SURFACE OF THE BASE SHALL FOLLOW THE INITIAL ROLLING OF THE LIME ROCK BY NOT MORE THAN FOUR (4) DAYS. WHEN THE LIME ROCK BASE IS CONSTRUCTED IN TWO LAYERS, THE SCARIFYING OF THE SURFACE SHALL BE TO A DEPTH OF 2 INCHES (50 MM).

IF THE CONDITION OF THE BASE MEETS ALL REQUIREMENTS, BUT THE SURFACE OF THE BASE IS GLAZED OR CEMENTED TO THE EXTENT THAT THE PRIME COAT COULD NOT PENETRATE PROPERLY, THE SURFACE OF THE BASE SHALL BE HARD-PLAINED WITH A BLADE GRADER AND BROOMED IMMEDIATELY PRIOR TO THE APPLICATION OF THE PRIME COAT. THIS HARD-PLANNING SHALL ONLY REMOVE THE CEMENTED SURFACE, LEAVING A GRANULAR OR POROUS CONDITION THAT WILL ALLOW FRESH APPLICATION OF THE PRIME MATERIAL. THE MATERIAL PLAINED FROM THE BASE SHALL BE REMOVED FROM THE BASE AREA.

IF THE UNDERLYING MATERIAL BECOMES CHURNED UP AND MIXED WITH THE BASE COURSE MATERIAL, THE CONTRACTOR SHALL, WITHOUT ADDITIONAL COMPENSATION, DIG OUT AND REMOVE THE MIXTURE, RESHAPE AND COMPACT THE UNDERLYING COURSE, AND REPLACE THE MATERIALS REMOVED WITH CLEAN ROCK WHICH SHALL BE WATERED AND ROLLED UNTIL SATISFACTORILY COMPACTED.

WHERE CRACKS, CHECKS, OR FAILURES APPEAR IN THE BASE, EITHER BEFORE OR AFTER PRIMING AND BEFORE THE SURFACE COURSE IS LAID, THE CONTRACTOR SHALL REMOVE SUCH CRACKS, CHECKS, OR FAILURES BY RESCAFRIFYING, RESHAPING, WATERING, ROLLING, AND ADDING LIME ROCK WHERE NECESSARY.

4.3.8 SURFACE TOLERANCE. AFTER THE COURSE HAS BEEN COMPACTED, THE SURFACE SHALL BE TESTED FOR SMOOTHNESS AND ACCURACY OF GRADE AND CROWN. ANY PORTION LACKING THE REQUIRED SMOOTHNESS OR FAILING IN ACCURACY OF GRADE OR CROWN SHALL BE SCARIFIED TO A DEPTH OF AT LEAST 3 INCHES (75 MM), RESHAPED AND RECOMPACTED TO GRADE, UNTIL THE REQUIRED SMOOTHNESS AND ACCURACY ARE OBTAINED AND APPROVED BY THE ENGINEER. ANY VARIATION IN SURFACE TOLERANCES SHALL BE CORRECTED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THE SMOOTHNESS AND ACCURACY REQUIREMENTS SPECIFIED HERE APPLY ONLY TO THE TOP LAYER WHEN BASE COURSE IS CONSTRUCTED IN MORE THAN ONE LAYER.

A. SMOOTHNESS. THE FINISHED SURFACE SHALL NOT VARY MORE THAN 3/8 INCH (9 MM) WHEN TESTED WITH A 12-FOOT (3.7-M) STRAIGHTEDGE APPLIED PARALLEL WITH AND AT RIGHT ANGLES TO THE CENTERLINE. THE STRAIGHTEDGE SHALL BE MOVED CONTINUOUSLY AT HALF THE LENGTH OF THE 12-FOOT (3.7-M) STRAIGHTEDGE FOR THE FULL LENGTH OF EACH LINE ON A 50-FOOT (15-M) GRID.

B. ACCURACY. THE GRADE AND CROWN SHALL BE MEASURED ON A 50-FOOT (15-M) GRID AND SHALL BE WITHIN +0 AND -1/2 INCH (12 MM) OF THE SPECIFIED GRADE.

211-3.9 THICKNESS CONTROL. THE THICKNESS OF THE BASE COURSE SHALL BE DETERMINED BY DEPTH TESTS TAKEN BY THE CONTRACTOR IN THE PRESENCE OF THE ENGINEER AT INTERVALS SO EACH TEST SHALL REPRESENT 300 SQUARE YARDS, OR AS DIRECTED BY THE ENGINEER. THE DEPTH TESTS SHALL BE MADE BY TEST HOLES AT LEAST 3 INCHES IN DIAMETER THAT EXTEND THROUGH THE BASE. WHERE THE BASE DEFICIENCY IS MORE THAN 1/2 INCH, THE CONTRACTOR SHALL CORRECT SUCH AREAS BY SCARIFYING AND ADDING ROCK. THE BASE SHALL BE SCARIFIED, ROCK ADDED, AND TAPERED A DISTANCE OF 100 FEET IN EACH DIRECTION FROM THE EDGE OF THE DEFICIENT AREA WHERE ROCK IS ADDED. THE AFFECTED AREA SHALL THEN BE WATERED, BLADED, ROLLED, AND BROUGHT TO THE REQUIRED COMPACTION, THICKNESS, AND CROSS-SECTION. SCARIFYING, ADDING ROCK, AND REROLLING SHALL CONTINUE UNTIL THE BASE THICKNESS IS WITHIN THE 1/2 INCH TOLERANCE OF BASE THICKNESS. THE FINAL BASE THICKNESS OF THE RECONDITIONED AREA SHALL BE USED TO DETERMINE THE AVERAGE JOB THICKNESS.

THE AVERAGE JOB THICKNESS SHALL BE THE AVERAGE OF THE DEPTH MEASUREMENT AS ABOVE OUTLINED AND SHALL BE WITHIN 1/4 INCH OF THE THICKNESS SHOWN ON THE TYPICAL CROSS-SECTION. ON INDIVIDUAL DEPTH MEASUREMENTS, THICKNESSES MORE THAN 1/2 INCH IN EXCESS OF THAT SHOWN ON THE PLANS SHALL BE CONSIDERED AS SPECIFIED THICKNESS PLUS 1/2 INCH IN COMPUTING THE AVERAGE JOB THICKNESS. THE CONTRACTOR SHALL REPLACE, AT HIS/HER EXPENSE, THE LIME ROCK REMOVED FROM TEST HOLES.

211-3.10 PROTECTION. WORK ON THE BASE COURSE SHALL NOT BE ACCOMPLISHED WHEN THE SUBGRADE IS WET.

HAULING EQUIPMENT MAY BE ROUTED OVER COMPLETED PORTIONS OF THE BASE COURSE, PROVIDED THERE IS NO DAMAGE TO THE BASE COURSE. THE EQUIPMENT SHALL BE ROUTED OVER THE FULL WIDTH OF THE BASE COURSE TO AVOID RUTTING OR UNEVEN COMPACTION. THE ENGINEER SHALL HAVE FULL AUTHORITY TO STOP ALL HAULING OVER COMPLETED OR PARTIALLY COMPLETED BASE COURSE WHEN, IN THE ENGINEER'S OPINION, SUCH HAULING IS CAUSING DAMAGE. ANY DAMAGE TO THE BASE COURSE FROM ROUTING EQUIPMENT OVER THE BASE COURSE SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OR HER EXPENSE.

211-3.11 MAINTENANCE. THE CONTRACTOR SHALL MAINTAIN THE BASE COURSE UNTIL THE WORK IS ACCEPTED BY THE ENGINEER. MAINTENANCE INCLUDES DRAINAGE, ROLLING, SHAPING, AND WATERING, AS NECESSARY, TO MAINTAIN THE COURSE IN PROPER CONDITION. THE CONTRACTOR SHALL CORRECT DEFICIENCIES IN THICKNESS, COMPOSITION, CONSTRUCTION, SMOOTHNESS, AND STRENGTH, WHICH EXIST, WHILE THE MAINTENANCE IS IN PROGRESS, TO MEET THE REQUIREMENTS SPECIFIED HERE. AFTER PRIMING THE MAINTENANCE SHALL BE KEPT CLEAN AND FREE FROM FOREIGN MATERIAL. THE BASE COURSE SHALL BE PROPERLY DRAINED AT ALL TIMES. IF CLEANING IS NECESSARY, OR IF THE PRIME COAT BECOMES DISTURBED, ANY WORK OR RESTITUTION NECESSARY SHALL BE PERFORMED AT THE EXPENSE OF THE CONTRACTOR.

SHEET NUMBER G-02	FPL OCEC HELISTOP	FLOIDA	OKEECHOBEE	GENERAL NOTES		KHA PROJECT 144196085 DATE: SCALE AS SHOWN DESIGNED BY TFO DRAWN BY HHO CHECKED BY TFO DATE:			8201 PETERS ROAD SUITE 2200 PLANTATION, FL 33324 © 2019 KIMLEY-HORN AND ASSOCIATES, INC. ALL RIGHTS RESERVED PHONE: 954-739-7331 FAX: 954-739-2247 WWW.KIMLEY-HORN.COM CA 00000686	No. _____ REVISIONS _____ DATE _____ BY _____
				LICENSED PROFESSIONAL	THOMAS F. O'DONNELL FLORIDA LICENSE NUMBER _____					

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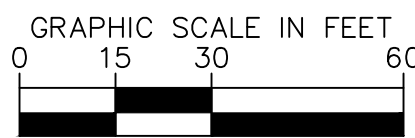
SCALE: 1"=40'-0" (VERTICAL)
1"=40'-0" (HORIZONTAL)

QUANTITY ESTIMATE FOR FPL OCEC HELISTOP		
ITEM	QUANTITY	UNIT
CLEARING AND GRUBBING	950	SY
EXCAVATION	650	CY
COMPACTED SUBGRADE	840	SY
12" SUBBASE COURSE	840	SY
6" BASE COURSE	890	SY
6" THICK CONCRETE	750	SY
PAINT MARKING	410	SF
IN-PAVEMENT PERIMETER LIGHT	16	EA
INTERNALLY LIT WINDCONE	1	EA
NEW JUNCTION BOX	1	EA
DIGITAL RADIO CONTROL MOUNTED TO EQUIPMENT RACK	1	EA
FLOOD LIGHT ON FRANGIBLE BASE	4	EA
ELECTRICAL CONDUIT/WIRING	870	LF
PERIMETER FENCE	590	LF
FENCE GATE	2	EA
WARNING SIGNAGE	2	EA
NFPA COMPLIANT FIRE EXTINGUISHER	2	EA

DRAFT

SHEET NUMBER C-01	FPL OCEC HELISTOP OKEECHOBEE FLORIDA	QUANTITIES	KHA PROJECT 144196085	LICENSED PROFESSIONAL		 8201 PETERS ROAD SUITE 220 PLANTATION, FL 33324 © 2015 KIMLEY-HORN AND ASSOCIATES, INC. PHONE: 954-535-5100 FAX: 954-739-2247 WWW.KIMLEY-HORN.COM CA 00000896	No.	REVISIONS	DATE	BY
			DATE: SCALE AS SHOWN DESIGNED BY TFO DRAWN BY HHO CHECKED BY TFO	THOMAS F. O'DONNELL FLORIDA LICENSE NUMBER DATE:						

An aerial photograph of a large, flat, undeveloped area, likely a construction site or industrial zone. The ground is light-colored, possibly dirt or sand. A grid of red crosshair symbols is overlaid across the entire area, each accompanied by a numerical value representing elevation or height. In the upper left corner, there are two specific points labeled "SITE BENCHMARK 5/8\" IRC \"TRAV PT LB 8351\" EL.=36.74' NAVD '88". To the right of these, a rectangular area is outlined in black and labeled "CELL TOWER". Further right, another rectangular area is outlined in green with a diagonal hatching pattern. On the far left, vertical lines and curves indicate a "TOE OF SLOPE" and a "DIRT ROAD". At the top center, a small yellow circle is labeled "CLF cor 10' north". At the bottom center, a small blue triangle is labeled "B.M.". Various other labels like "C.L.F.", "C.L.F. GATE", and "CLF cor" are scattered throughout the plan.



1. UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR TO OBTAIN UNDERGROUND UTILITY LOCATION AS REQUIRED BY LAW. SEE GENERAL NOTES SHEET C01. ALL FACILITIES ARE TO REMAIN EXCEPT WHERE OTHERWISE SHOWN. TAKE CARE DURING CONSTRUCTION TO AVOID DAMAGE TO EXISTING ABOVE GROUND AND UNDERGROUND FACILITIES.
2. EXISTING RAW WATER MAIN AND FIBER OPTIC LINE (+/- 30" BELOW GROUND LEVEL) TO BE PROTECTED THROUGH DURATION OF WORK. CONTRACTOR TO PERFORM UTILITY SOFT DIG TO CONFIRM DEPTH AND LOCATION OF ALL UTILITIES IN THE WORK AREAS. CONTRACTOR TO PRESENT RESULTS OF THE UTILITY SOFT DIG TO THE ENGINEER.

 CLEARING, GRUBBING AND REGRADING.

 BENCH MARK
 ELECTRIC BOXES
 LIGHTNING ARRESTER
 SPOT ELEVATION
 EXISTING FIBER OPTIC LINE

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SUITE 2200
PLANTATION, FL 33324
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KHA PROJECT 144196085	LICENSED PROFESSIONAL
DATE:	THOMAS F. O'DONNELL
SCALE AS SHOWN	FLORIDA LICENSE NUMBER
DESIGNED BY TFO	
DRAWN BY HHO	
CHECKED BY TFO	DATE:

EXISTING CONDITIONS AND DEMOLITION PLANS

FPL OCEC HELISTOP

FLORIDA

OKEECHOBEE

SHEET NUMBER
C-02

DRAFT

112.2' SAFETY AREA (UNPAVED & UNMARKED)

82.05' FATO PAVEMENT (TYP.)

19.025' (TYP.) 44.0' TLOF PAVEMENT (TYP.) 19.025' (TYP.)

NEW L-806 WIND CONE ON FRANGIBLE BASE

NEW SIGN AT GATE ENTRANCE STATING "NO SMOKING WILL BE PERMITTED WITHIN 50 FEET OF THE LANDING PAD"

SWING GATE FOR SECONDARY MEANS OF EGRESS

NEW NFPA 10 COMPLIANT 10-A:120-B PORTABLE FIRE EXTINGUISHER

PROPOSED CONCRETE HELISTOP

NEW 3' CHAIN LINK PERIMETER FENCE 17' AWAY FROM SAFETY AREA PERIMETER, SEE FENCING DETAILS

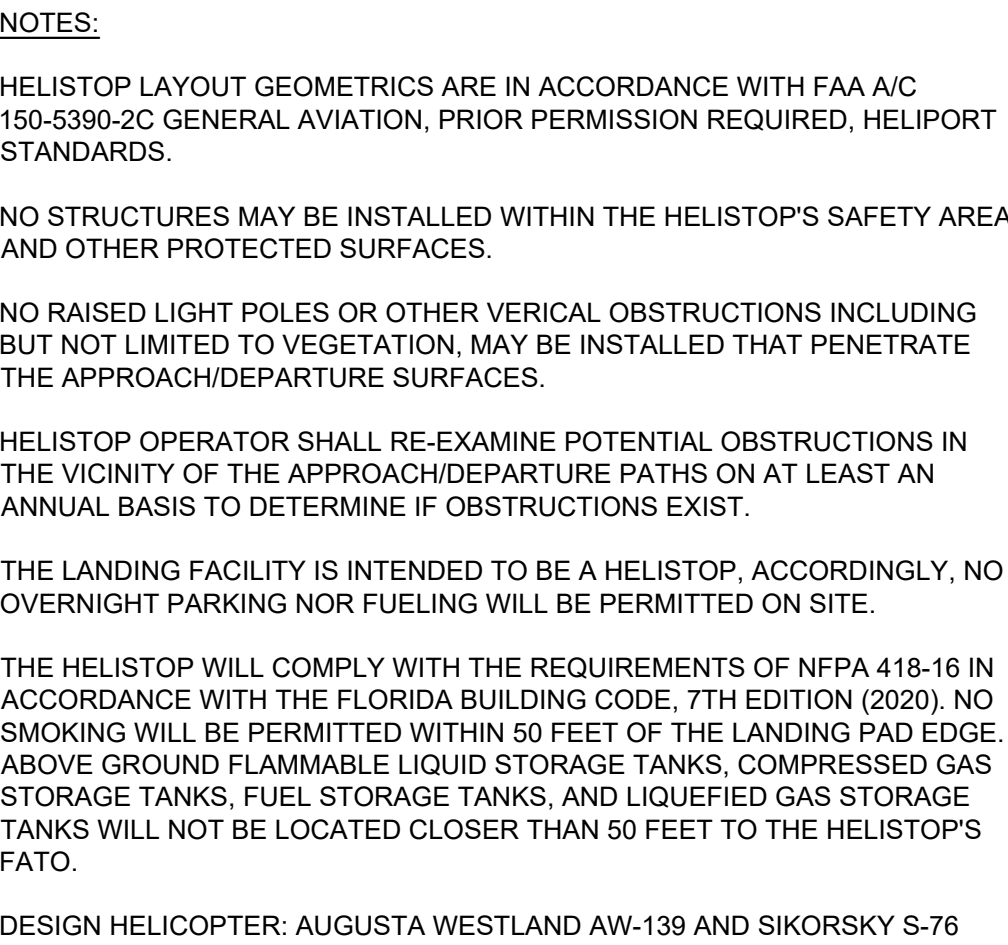
NEW FLOOD LIGHT ON FRANGIBLE BASE, TYP. OF 4

NEW SIGN AT GATE ENTRANCE STATING "NO SMOKING WILL BE PERMITTED WITHIN 50 FEET OF THE LANDING PAD"

SWING GATE FOR PRIMARY MEANS OF EGRESS

NEW NFPA 10 COMPLIANT 10-A:120-B PORTABLE FIRE EXTINGUISHER

NEW FLUSH FATO PERIMETER EDGE LIGHT, TYP. OF 16



Point Table			
Point #	Northing	Easting	Description
1	1199158.94	722617.34	FLOOD LIGHT
2	1199160.30	722742.28	FLOOD LIGHT
3	1199284.24	722741.15	FLOOD LIGHT
4	1199284.30	722616.81	FLOOD LIGHT
5	1199262.78	722638.58	PAVEMENT CORNER
6	1199263.33	722720.58	PAVEMENT CORNER
7	1199180.78	722639.13	PAVEMENT CORNER
8	1199181.34	722721.13	PAVEMENT CORNER
9	1199286.81	722679.02	WIND CONE

SHEET NUMBER C-03	FPL OCEC HELISTOP	FLORIDA	OKEECHOBEE	HELISTOP SITE PLAN	KHA PROJECT 144196085 DATE: _____ SCALE AS SHOWN DESIGNED BY TFO DRAWN BY HHO CHECKED BY TFO	LICENSED PROFESSIONAL THOMAS F. O'DONNELL FLORIDA LICENSE NUMBER _____ DATE: _____			8201 PETERS ROAD SUITE 2200 PLANTATION, FL 33324 © 2019 KIMLEY-HORN ALL RIGHTS RESERVED PHONE: 954-535-5100 FAX: 954-739-2247 WWW.KIMLEY-HORN.COM CA 00000595	No.	REVISIONS	DATE	BY