

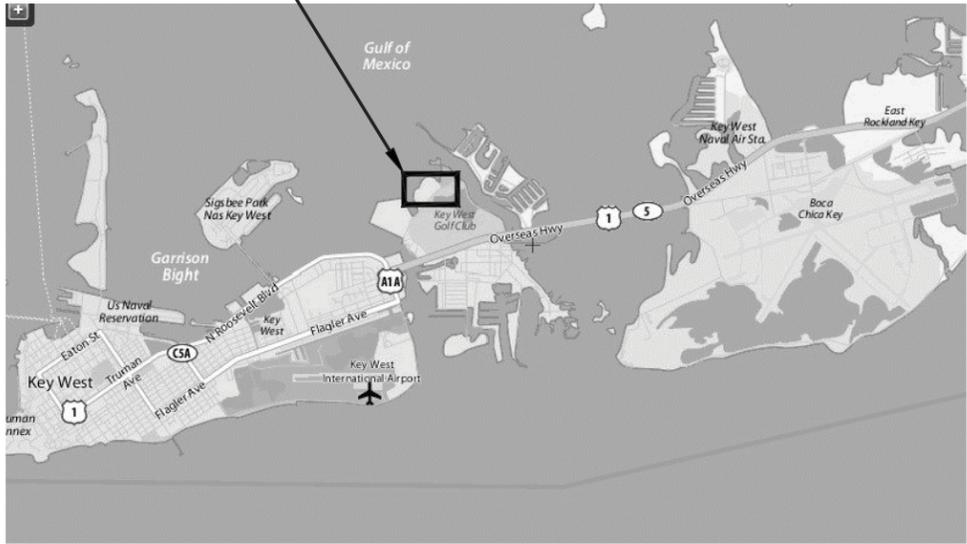
Appendix A
Conceptual Drawings

CITY OF KEY WEST PUBLIC TRANSPORTATION FACILITY

5701 COLLEGE ROAD, KEY WEST, FL 33040

CIVIL - VOLUME I

PROJECT LOCATION



VICINITY MAP



INDEX TO DRAWINGS

<u>DRAWING</u>	<u>DESCRIPTION</u>
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C-02	PROPOSED GRADING AND DRAINAGE PLAN
D-01	DETAIL SHEET
D-02	DETAIL SHEET
D-03	DETAIL SHEET

PREPARED FOR THE
City of Key West
Key West, Florida

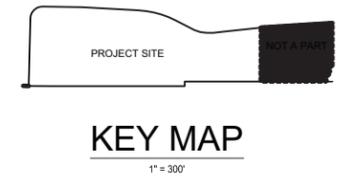
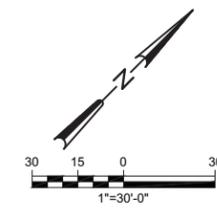
NOT FOR CONSTRUCTION

CIVIL ENGINEER



500 WEST CYPRESS CREEK ROAD, Suite 630
FORT LAUDERDALE, Florida 33309
Tel: 954.730.0707
EB 0004593
ATTN: OSCAR R. BELLO, P.E.

JUNE 2012

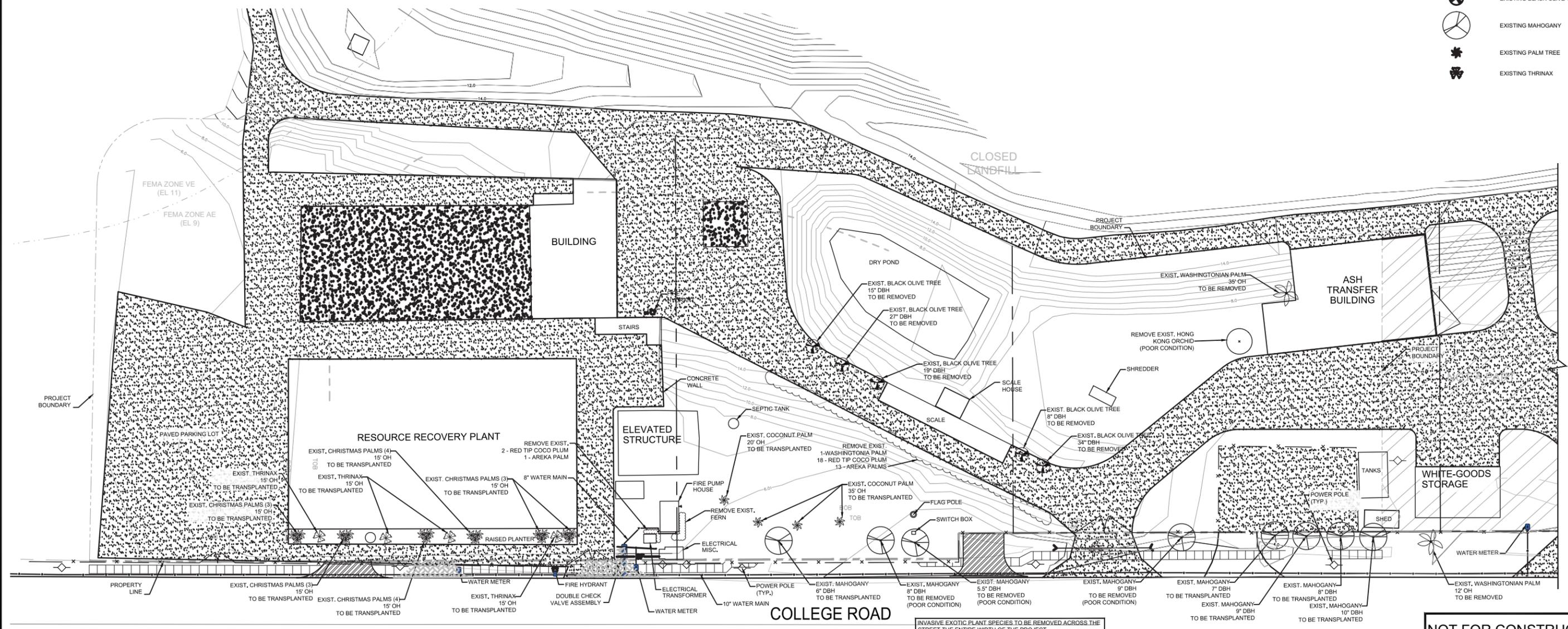
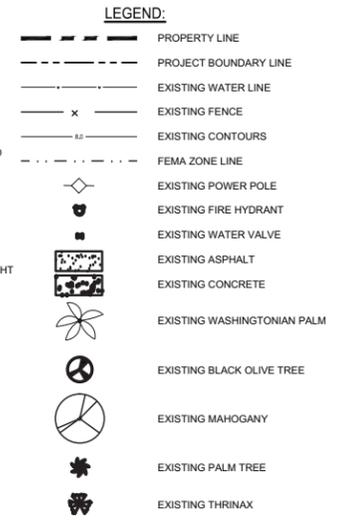


NOTES:

1. THE CITY OF KEY WEST SOLID WASTE DEPARTMENT IS RESPONSIBLE FOR CLOSING OUT OPERATIONS AND DEMOLITION OF ALL EXISTING STRUCTURES ONSITE PERTAINING TO THE EXISTING SOLID WASTE TRANSFER STATION. THE PROPOSED TRANSIT STATION PROJECT INCLUDES NEW FACILITY DEVELOPMENT ONLY.
2. THE EXISTING CONDITIONS SHEET PRESENTED IS FOR REFERENCE ONLY AND IS BASED ON SURVEY COMPLETED (JUNE 1992) BY CH2M HILL AND AVIROM AND ASSOCIATES (OCTOBER 2006)

ABBREVIATIONS:

OH - OVERALL HEIGHT
 DBH - DIAMETER AT BREAST HEIGHT
 EXIST. - EXISTING



INVASIVE EXOTIC PLANT SPECIES TO BE REMOVED ACROSS THE STREET THE ENTIRE WIDTH OF THE PROJECT. WORK TO BE COORDINATED WITH THE CITY'S LANDSCAPING DEPARTMENT.

NOT FOR CONSTRUCTION

5			
4			
3			
2			
1			
NO.	DATE	REVISION	APP'D. BY

DESIGNER: ORB
 DRAWN BY: CAA
 CHECKER: MB
 SCALE: AS SHOWN

CHEN-MOORE & ASSOCIATES
 500 West Cypress Creek Road, Suite 330
 Fort Lauderdale, Florida 33309
 TEL: 954.736.0707
 EB 0004593



CITY OF KEY WEST, FLORIDA
 DEPARTMENT OF TRANSPORTATION
 627 PALM AVENUE, KEY WEST, FL 33040

CITY OF KEY WEST
 PUBLIC TRANSPORTATION FACILITY
 5701 COLLEGE ROAD, KEY WEST, FL 33040

EXISTING CONDITIONS
 Date: OCTOBER 2011
 Sheet: 3 of 10 Drawing: EC-01

- UNDERGROUND UTILITIES SHALL BE COMPLETED OR SLEEVING PROVIDED BEFORE ANY PAVEMENT CONSTRUCTION BEGINS.
- ALL PAVEMENT SUBGRADE MATERIAL SHALL BE COMPACTED TO 98% MAXIMUM DENSITY AT OPTIMUM MOISTURE, AASHTO T-180, METHOD "D" AND SHALL CONFORM TO THE REQUIREMENTS OF F.D.O.T. SPECIFICATIONS, SECTION 120. THE TEST RESULTS SHALL BE ACCEPTED BY THE ENGINEER PRIOR TO PLACEMENT OF BASE MATERIAL.
- IF THE PLANS INDICATE A LIMEROCK BASE, THE CONSTRUCTION AND THE MATERIAL FOR THE SHELLROCK BASE SHALL CONFORM TO THE REQUIREMENTS OF F.D.O.T. SPECIFICATIONS, SECTION 230. THE SHELLROCK BASE SHALL BE COMPACTED TO 98% MAXIMUM DENSITY AT OPTIMUM MOISTURE. AASHTO T-180, METHOD "D". THE ENGINEER SHALL SPECIFY THE LOCATION AND NUMBER OF DENSITY TESTS REQUIRED. THE TEST RESULTS SHALL BE ACCEPTED BY THE ENGINEER PRIOR TO APPLICATION OF THE PRIME AND TACK COATS.
- THE PRIME AND TACK COAT CONSTRUCTION AND MATERIALS FOR THE PRIME AND TACK COATS SHALL CONFORM TO THE REQUIREMENTS OF F.D.O.T. STANDARD SPECIFICATIONS, SECTION 300. THE PRIME AND TACK COATS SHALL BE APPLIED PRIOR TO CONSTRUCTION OF THE ASPHALT SURFACE COURSE AND SHALL BE SANDED AND ROLLED IN ACCORDANCE WITH SECTION 300. APPLICATION RATES SHALL BE 0.15 GAL/SY FOR LIMEROCK BASE AND 0.25 GAL/SY FOR SHELLROCK BASE.
- ASPHALTIC CONCRETE SURFACE COURSE SHALL BE AS SHOWN ON THE PLANS. THE MATERIALS FOR THE ASPHALT CONCRETE SURFACE COURSE SHALL CONFORM TO THE REQUIREMENTS OF F.D.O.T. STANDARD SPECIFICATIONS, SECTION 331.
- THE MATERIAL TO BE USED AS A STABILIZER SHALL BE SOIL OF HIGH BEARING VALUE SUCH AS, SAND-CLAY, GROUND LIMESTONE, CRUSHED LIMEROCK, OYSTER SHELL, COQUINA SHELL, ROCK SCREENINGS, OR ANY OTHER MATERIAL WHICH IS SUITABLE FOR STABILIZATION. ORGANIC MATERIAL SHALL NOT BE USED AS STABILIZING MATERIAL.
- ALL GRADE SHOWN REFER TO FINISHED ASPHALT PAVEMENT UNLESS OTHERWISE NOTED.
- MATERIAL HAVING A PLASTICITY INDEX AT MORE THAN 10 OR A LIQUID LIMIT GREATER THAN 40 SHALL NOT BE USED. ALL MATERIAL USED FOR STABILIZING THE ROADBED SHALL PASS A 3-1/2 INCH RING.
- WHERE THE BEARING VALUE OF THE EXISTING SUBGRADE IS ADEQUATE WITHOUT ADDITION OF STABILIZING MATERIAL, THE SUBGRADE SHALL BE SCARIFIED AND DICED, HARROWED, BLADED, OR TILLED FOR REMOVAL OF BOULDERS, ROOTS, ETC. TO ASSURE UNIFORMITY AND THOROUGH MIXING OF MATERIAL TO THE FULL WIDTH AND DEPTH OF REQUIRED STABILIZATION. THE COMPACTED SUBGRADE SHALL CONFORM TO THE LINES, GRADES AND CROSS-SECTION SHOWN ON THE PLANS.
- THE SUBGRADE TO BE STABILIZED MAY BE PROCESSED IN ONE COURSE, UNLESS THE EQUIPMENT AND METHODS BEING USED DO NOT PROVIDE THE REQUIRED UNIFORMITY, PARTICLE SIZE LIMITATION, COMPACTION AND OTHER DESIGNED RESULTS IN WHICH CASE, THE ENGINEER WILL DIRECT OTHER DESIGNED RESULTS IN WHICH CASE, THE ENGINEER WILL DIRECT THAT THE PROCESSING BE DONE IN MORE THAN ONE COURSE.
- PRIOR TO THE BEGINNING OF STABILIZING OPERATIONS, THE AREA TO BE STABILIZED SHALL HAVE BEEN CONSTRUCTED TO AN ELEVATION SUCH THAT UPON COMPLETION OF STABILIZING OPERATIONS, THE COMPLETED STABILIZED SUBGRADE SHALL CONFORM TO THE LINES, GRADES AND CROSS-SECTION SHOWN IN THE PLANS, PRIOR TO THE SPREADING OF ANY ADDITIVE STABILIZING MATERIAL THE SURFACE OF THE ROADBED SHALL BE BROUGHT TO A PLACE APPROXIMATELY PARALLEL TO THE PLANE OF THE PROPOSED FINISHED SURFACE.
- THE STABILIZING MATERIAL SHALL BE APPLIED IN SUCH QUANTITY AS IS NECESSARY TO PRODUCE THE REQUIRED BEARING VALUE. IT SHALL BE INCORPORATED WITH THE SUBGRADE BY FLOWING, DICING, HARROWING, BLADING OR MIXING WITH ROTARY TILLERS UNTIL THE MIXED MATERIALS ARE OF A UNIFORM BEARING VALUE FOR THE FULL WIDTH AND DEPTH OF THE COURSE BEFORE COMPACTION, REGARDLESS OF THE CHARACTER OR BEARING VALUE. ALL MATERIALS IN THE STABILIZING COURSE THAT WILL NOT PASS A 3-1/2" RING SHALL BE REMOVED OR BROKEN DOWN TO A SIZE NOT LARGER THAN 3-1/2 INCHES
- COMPACTION SHALL BE ACCOMPLISHED BY ROLLING WITH ANY TYPE OF EQUIPMENT WHICH WILL PRODUCE THE REQUIRED DENSITY. COMPACTION SHALL CONTINUE UNTIL THE ENTIRE DEPTH TO BE STABILIZER HAS A DENSITY OF NOT LESS THAN 98 PERCENT OF THE MAXIMUM DENSITY IN ACCORDANCE WITH AASHTO T-180, FIELD DENSITY TESTS SHALL BE MADE AT INTERVALS NOT GREATER THAN 500 FEET IN EACH COURSE OR LAYER.
- THE LIMEROCK SHALL BE TRANSPORTED TO THE POINT WHERE IT IS TO BE USED OVER BASE PREVIOUSLY PLACED, IF PRACTICABLE, AND DUMPED ON THE END OF THE PROCEEDING SPREAD, HAULING OVER THE SUBGRADE AND DUMPING ON THE SUB GRADE WILL BE PERMITTED ONLY WHEN IN THE ENGINEER'S OPINION THESE OPERATIONS WILL NOT BE DETRIMENTAL TO THE BASE.
- THE LIMEROCK SHALL BE SPREAD UNIFORMLY, WITH EQUIPMENT ACCEPTABLE TO THE ENGINEER, ALL SEGREGATED OR OTHERWISE UNACCEPTABLE AREAS SHALL BE REMOVED AND REPLACED WITH PROPERLY GRADED ROCK, AFTER SPREADING IS COMPLETED, THE ENTIRE SURFACE SHALL BE SCARIFIED AND THEN SHAPED SO AS TO PRODUCE THE REQUIRED GRADE, THICKNESS AND CROSS-SECTION AFTER COMPACTION. LIFTS SHALL HAVE A MAXIMUM COMPACTED THICKNESS OF SIX INCHES.
- COMPACTION SHALL BE ACCOMPLISHED AT OPTIMUM MOISTURE. WHEN THE MATERIAL DOES NOT HAVE THE PROPER MOISTURE CONTENT TO INSURE THE REQUIRED DENSITY, WETTING OR DRYING WILL BE REQUIRED. ADDED WATER SHALL BE UNIFORMLY MIXED TO THE FULL DEPTH OF THE COURSE WHICH IS BEING COMPACTED.
- BEFORE ANY BITUMINOUS MATERIAL IS APPLIED, ALL LOOSE MATERIAL, DUST, DIRT, CAKED SLAY AN FOREIGN MATERIAL WHICH MIGHT PREVENT PROPER BOND WITH EXISTING SURFACE SHALL REMOVED FOR THE FULL WIDTH OF THE APPLICATION, PARTICULAR CARE SHALL BE TAKEN TO CLEAN THE OUTER EDGE OF THE STRIP TO BE TREATED IN ORDER TO ENSURE THAT THE PRIME WILL ADHERE. WHERE THE PRIME IS APPLIED ADJACENT TO CURB AND GUTTER OR VALLEY GUTTER, SUCH CONCRETE SURFACES ARE TO BE PROTECTED AND KEPT FREE OF BITUMINOUS MATERIAL.
- NO BITUMINOUS MATERIAL SHALL BE APPLIED WHEN THE TEMPERATURE OF THE AIR IS LESS THAN 40 DEGREES F IN THE SHADE AND FALLING, OR WHEN IN THE OPINION OF THE ENGINEER, THE WEATHER CONDITIONS OR THE CONDITION OF THE EXISTING SURFACE IS UNSUITABLE.
- THE SURFACE TO BE PRIMED SHALL BE CLEAN AND DRY FOR LIMEROCK BASES. THE GLAZED FINISH SHALL BE REMOVED BEFORE THE APPLICATION OF PRIME COAT.

- ALL CEMENT USED ON DRAINAGE STRUCTURES SHALL BE A TYPE II PORTLAND CEMENT, CONFORMING TO ASTM SPECIFICATION C-150 AASHTO DESIGNATION M-85.
- UNLESS OTHERWISE SPECIFIED ON THE PLANS, STRUCTURES SHALL BE PRECAST CONCRETE SECTIONS.
- MORTAR FOR USE IN CONSTRUCTION AND PLASTERING STRUCTURES SHALL CONFORM TO ASTM C-270 SPECIFICATIONS FOR MORTAR FOR UNIT MASONRY. A PORTLAND CEMENT HYDRATED LINE MIXTURE OR A MASONRY CEMENT MAY BE USED PROVIDED THAT THE SAME MATERIALS ARE USED THROUGHOUT THE PROJECT.
- MORTAR MATERIALS SHALL BE PROPORTIONED BY VOLUME AND SHALL CONSIST OF ONE PART TYPE II PORTLAND CEMENT TO TWO PARTS AGGREGATE (SAND). PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, "SPECIFICATIONS FOR PORTLAND CEMENT", AGGREGATE SHALL CONFORM TO ASTM C-144 "SPECIFICATIONS FOR AGGREGATE FOR MASONRY UNITS".
- PRECAST STRUCTURES SECTIONS SHALL CONFORM TO ASTM C-478, SPECIFICATIONS FOR PER CAST REINFORCED CONCRETE STRUCTURE SECTIONS AS MODIFIED HERETO. CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, MINIMUM WALL THICKNESS SHALL BE 8 INCHES AND MINIMUM INSIDE DIAMETER SHALL BE 48 INCHES. THE INSIDE OF ALL STRUCTURES SHALL BEAR THE APPROVAL OF A CERTIFIED TESTING LABORATORY WHEN DELIVERED TO THE JOB SITE.
- ALL PIPE SHALL BE CAREFULLY LAID, TRUE TO THE LINES AND GRADES GIVEN. ANY PIPE THAT IS NOT IN TRUE ALIGNMENT OR WHICH SHOWS ANY SETTLEMENT AFTER INSTALLATION AND SHALL BE RE-INSTALLED AT NO ADDITIONAL COST TO THE CITY.
- THE BASE AND WALLS THAT COMPOSE THE BOTTOM SECTION OF THE PRECAST STRUCTURES SHALL BE OF MONOLITHIC.
- CONSTRUCTION, 8 INCHES THICK AND THE EDGE OF THE BASE SLAB SHALL PROJECT A MINIMUM 3 INCHES BEYOND THE OUTSIDE DIAMETER OF THE WALL.
- HOLES FOR PIPING SHALL BE MIN. 3 INCHES LARGER THAN THE OUTSIDE DIAMETER OF THE RESPECTIVE PIPES. AFTER THE PIPE IS SET THE VOID SPACE BETWEEN THE PIPE AND THE HOLE PERIMETER SHALL BE COMPLETELY FILLED WITH NON-SHRINKING QUICK-SETTING WATERPROOF CEMENT MORTAR AND STRUCK SMOOTH.
- THE MINIMUM HEIGHT OF PRECAST BASE SECTION SHALL BE 36 INCHES. HOWEVER, NO HOLES FOR PIPING SHALL BE CAST LESS THAN 8 INCHES FROM THE TOP OF THE BASE SECTION OR LESS THAN 2 INCHES ABOVE THE TOP OF THE BASE SLAB.
- ALL CASTING SHALL BE TRUE TO PATTERN AND DIMENSIONS, FREE FROM FAULTS OR DEFECTS AND WELL CLEANED.
- BEARING SURFACES BETWEEN CAST FRAMES, COVERS AND GRATES SHALL BE MACHINED AND FITTED TOGETHER TO ASSURE A TRUE AND EVEN FIT. WITHIN AREAS OF VEHICULAR TRAFFIC THE FRAMES, COVERS AND GRATING SHALL BE MACHINE-GROUND SO THAT IRREGULARITY OF CONTACT WILL BE REDUCED TO A MINIMUM AND WILL BE RATTLE PROOF.
- CONTRACTOR IS TO PREVENT INTRODUCTION OF DEBRIS OR DIRT INTO EXISTING STORM DRAINAGE AND/OR SANITARY SEWER SYSTEM AS A RESULT OF CONSTRUCTION ACTIVITIES, ALL LINES AND STRUCTURES SHALL BE CLEANED PRIOR TO FINAL INSPECTION AND ACCEPTANCE.
- LOCATION OF DRAINAGE STRUCTURES GOVERN, ADJUST PIPE LENGTHS AS REQUIRED.
- WALL REINFORCEMENT AND THICKNESS FOR PRECAST STRUCTURES SHALL BE IN ACCORDANCE WITH ASTM C-478.
- MORTAR USED TO SEAL THE PIPE INTO THE WALLS OF THE PRECAST STRUCTURES WILL BE OF SUCH A MIX THAT SHRINKAGE WILL NOT CAUSE LEAKAGE IN OR OUT OF THE STRUCTURES THE MAXIMUM OPENING THROUGH WALLS FOR PIPE SHALL BE THE MAXIMUM REQUIRED OUTSIDE DIAMETER PLUS ".8".
- ALL STRUCTURES SHALL BE SET PLUMB TO LINE AND GRADE AND SHALL REST ON A FIRM CAREFULLY GRADED SUB GRADE WHICH SHALL PROVIDE UNIFORM BEARING UNDER BASE.
- ALL MUCK OR OTHER UNSTABLE MATERIAL ENCOUNTERED IN TRENCH BOTTOM SHALL BE REMOVED AND BACKFILLED WITH GRANULAR MATERIAL COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180, METHOD 'D'.
- PROTECT COMPLETED DRAINAGE STRUCTURES FROM CONTAMINATION BY SILT AND CONSTRUCTION DEBRIS. PLACE PLYWOOD OR OR FILTER FABRIC BETWEEN THE FRAME AND INLET GRATE UNTIL SITE CONSTRUCTION OPERATIONS ARE FINISHED.
- CONTRACTOR SHALL INSPECT AND CLEAN ALL EXISTING STRUCTURES AND PIPES WITHIN THE PROJECT LIMITS. IF EXISTING STRUCTURES AND PIPES ARE DAMAGED, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR CONNECTION WITH THE NEW PIPE OR STRUCTURE.

- WHERE MUCK, ROCK, CLAY, OR OTHER MATERIAL WITHIN THE LIMITS OF CONSTRUCTION IS UNSUITABLE IN ITS ORIGINAL POSITION THE CONTRACTOR SHALL EXCAVATE SUCH MATERIAL IN ITS ENTIRETY AND BACKFILL WITH SUITABLE MATERIAL WHICH SHALL BE COMPACTED IN PLACE TO CONFORM TO THE REQUIRED GRADES AND SECTIONS AS SHOWN ON THE PLANS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE UNSUITABLE MATERIAL PRESENT ON-SITE AND INCLUDE THE REMOVAL AND REPLACEMENT.
- THE CONTRACTOR SHALL MAKE HIS OWN ESTIMATE ON THE VOLUME OF MATERIAL ACTUALLY REQUIRED TO OBTAIN THE CROSS SECTIONS OR GRADES AS SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL REMOVE ALL MUCK, YIELDING MATERIAL ROOTS, VEGETATION AND OTHER DEGRADABLE MATERIAL IN ITS ENTIRETY, WITHIN THE PAVEMENT UNITS AND BELOW ALL STRUCTURES AND UTILITIES TO FULL EXCAVATED TRENCH WIDTH. SAID MATERIAL SHALL BE REPLACED WITH CLEAN ORGANIC FREE MATERIAL.
- WITH ROCKS SMALLER THAN THREE INCHES IN DIAMETER COMPACTED TO NOT LESS THAN 95% MAXIMUM DENSITY AT OPTIMUM MOISTURE, AASHTO T-180 METHOD "D" WITH MAXIMUM LIFTS OF TWELVE INCHES COMPACTED THICKNESS.
- TRENCH BACKFILL AND COMPACTION SHALL FOLLOW THE CONTRACT SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING APPROPRIATE SAFETY PRECAUTIONS DURING EXCAVATION AND TRENCHING OPERATIONS AS REQUIRED BY THE "TRENCH SAFETY ACT".
- THIS WORK SHALL INCLUDE THE EXCAVATION OF WHATEVER SUBSTANCES THAT SHALL BE ENCOUNTERED TO THE DEPTHS AS SHOWN ON THE PLANS. EXCAVATED MATERIALS NOT REQUIRED FOR FILL OR BACKFILL SHALL BE REMOVED FROM THE WORK SITE AS DIRECTED BY THE ENGINEER AND SHALL BE CONSIDERED TO BE A PART OF THE BID PRICE OF THE UTILITY PIPE FOR WHICH EXCAVATION AND BACKFILL IS REQUIRED.
- WATER SHALL NOT BE PERMITTED TO ACCUMULATE IN THE EXCAVATED AREA. IT SHALL BE REMOVED BY PUMPING OR OTHER MEANS AS APPROVED BY THE ENGINEER. THE REMOVAL OF WATER SHALL BE CONSIDERED TO BE A PART OF THE BID PRICE OF THE UTILITY PIPE FOR WHICH EXCAVATION AND BACKFILL IS REQUIRED.
- IF THE BOTTOM OF THE TRENCH IS ROCK, THE EXCAVATION SHALL BE CARRIED EIGHT INCHES BELOW THE INVERT OF THE PIPE AND BACKFILLED WITH THOROUGHLY COMPACTED SHARP SAND, GRAVEL, OR OTHER SUITABLE MATERIAL APPROVED BY THE ENGINEER.
- ROCK EXCAVATION SHALL INCLUDE ANY ROCK ENCOUNTERED WHICH CANNOT BE REMOVED WITH A 3/4 YARD BACKHOE UNDER NORMAL OPERATING CONDITIONS. ROCK EXCAVATION SHALL BE INCIDENTAL TO CONSTRUCTION OF ALL PIPING SYSTEMS AND NO SEPARATE PAYMENT WILL BE MADE.
- WHENEVER IT IS NECESSARY, IN THE INTEREST OF SAFETY, TO BRACE OR SHORE THE SIDES OF THE TRENCH, SUCH BRACING OR SHORING SHALL BE CONSIDERED TO BE PART OF THE BID PRICE OF UTILITY PIPE FOR WHICH EXCAVATION AND BACKFILL IS REQUIRED.
- THE CONTRACTOR SHALL FURNISH, PUT IN PLACE AND MAINTAIN SUCH SHEETING, BRACING, AS MAY BE REQUIRED TO SUPPORT THE SIDE OF THE EXCAVATION, AND TO PREVENT ANY MOVEMENT WHICH CAN IN ANY WAY DAMAGE THE WORK OR ENDANGER ADJACENT STRUCTURES.
- IF FIELD CONDITIONS, TYPE OF SHEETING OR CONSTRUCTION METHODS MAKE REMOVAL OF SHEETING IMPRACTICABLE, AT NO ADDITIONAL COST TO THE OWNER, THE CONTRACTOR MAY LEAVE ALL SHEETING IN PLACE. THE ENGINEER MAY REQUIRE SHEETING TO BE CUT OFF AT ANY SPECIFIED ELEVATION BUT IN NO CASE WILL ANY SHEETING BE LEFT CLOSER THAN TWO (2) FEET BELOW THE NATURAL SURFACE, NOR CUT OFF BELOW THE ELEVATION OF THE TOP OF THE PIPE.
- AFTER PIPES, STRUCTURES, AND OTHER APPURTENANCES HAVE BEEN INSTALLED, THE TRENCH OR OPENING SHALL BE BACKFILLED WITH MATERIAL IN CONFORMANCE WITH THE SPECIFICATION.
- IN AREAS WHERE PAVEMENTS ARE TO BE CONSTRUCTED OVER THE PIPE. THE REMAINDER OF THE TRENCH SHALL BE PLACED IN SIX INCH LAYERS (COMPACTED THICKNESS) AND SHALL BE COMPACTED TO 98 PERCENT OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99. CONTRACTOR WILL BE RESPONSIBLE FOR CORRECTING DAMAGE FROM SETTLEMENT IN THE BACKFILLED AREAS WHETHER UNDER THE PAVEMENT OR OTHERWISE.
- IN AREAS WHERE NO PAVEMENT IS TO BE CONSTRUCTED, THE BACKFILL ABOVE THE TWELVE INCH LINE ABOVE THE PIPE SHALL BE COMPACTED TO A FIRMNESS APPROXIMATELY EQUAL TO THAT OF THE SOIL ADJACENT TO THE PIPE TRENCH.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING REQUIRED SAFETY BARRIER AND PROTECTIVE STEEL PLATE COVERINGS FOR OPEN TRENCHES.
- SEE SOILS EVALUATION OF THE PROJECT AREA ON GEOTECHNICAL INVESTIGATION REPORT PERFORMED BY NUTTING, ENGINEERS OF FLORIDA, INC, SEPTEMBER 2007 (PHONE: 305-557-3083).

GENERAL CONSTRUCTION NOTES

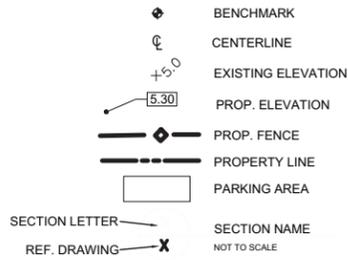
- ALL CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE MINIMUM STANDARDS APPLICABLE UNDER THE CITY OF KEY WEST & FKA.A
- THE CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES 72 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT EXISTING UTILITIES WHETHER SHOWN OR NOT.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS IN ADVANCE OF MAKING ANY CONNECTION TO AN ACTIVE PIPELINE OR UTILITY SYSTEM.
- ALL EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS APPROVED OTHERWISE IN WRITING BY THE UTILITY OWNERS.
- ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON BAY DATUM. A COPY OF THE SITE-SPECIFIC SURVEY SHOWING PROJECT BENCHMARKS WILL BE PROVIDED UPON REQUEST.
- CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES 72 HOURS PRIOR TO CONSTRUCTION.
- ALL DEVIATIONS FROM PLANS ARE TO BE APPROVED BY ENGINEER IN WRITING PRIOR TO CONSTRUCTION AND FOR ALL INSPECTIONS AND TESTING.
- THE ENGINEER MUST BE GIVEN A MINIMUM 48 HOURS NOTICE FOR ALL INSPECTIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES AND IMPROVEMENTS FROM DAMAGES, DISRUPTION OF SERVICE OR DESTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.
- EXISTING SECTION CORNERS AND OTHER LAND MARKERS OR MONUMENTS LOCATED WITHIN PROPOSED CONSTRUCTION ARE TO BE MAINTAINED BY THE CONTRACTOR AND/OR RESET AFTER CONSTRUCTION UNDER CERTIFICATION BY A FLORIDA REGISTERED SURVEYOR.
- THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", 2003 EDITION, SHALL BE USED AS THE STANDARD FOR THE SIGN AGE AND PAVEMENT MARKING REQUIREMENTS OF THE PROJECT.
- THE EXISTING ELEVATIONS SHOWN HEREON ARE FOR THE PURPOSE OF INDICATING THE GROUND ELEVATION ONLY AT THE POSITION SHOWN AND IN NO WAY SHOULD INDICATE ELEVATION AT ANY OTHER POINT OTHER THAN THAT SHOWN.
- TOPOGRAPHIC INFORMATION SHOWN ON THE PLANS ARE TAKEN FROM SURVEY PREPARED BY CHARLES TOLTON & ASSOCIATES PHONE: (239) 793-6633.

- ALL CONSTRUCTION, INSTALLATION, TESTING AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), THE CITY OF KEY WEST AND ALL OTHER LOCAL, STATE AND NATIONAL CODES WHERE APPLICABLE. THE CONTRACTOR SHALL HAVE A COPY OF THE F.D.O.T. STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION AND CITY OF KEY WEST STANDARDS ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.

- ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL THE REQUIREMENTS OF FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AND ALL STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.

- THE CONTRACTOR SHALL NOTIFY THE FKA.A CONTRACT OFFICE 48 HOURS PRIOR TO STARTING WORK SO THAT INSPECTION MAY BE PROVIDED.
- INSPECTIONS WILL BE MADE BETWEEN 8:00 A.M. AND 5:00 P.M. MONDAY THROUGH FRIDAY EXCLUDING LEGAL HOLIDAYS. WHEN INSPECTIONS ARE REQUIRED AFTER 5:00 PM OR ON WEEKENDS AND HOLIDAYS THE CONTRACTOR SHALL REIMBURSE FKA.A FOR ALL COSTS INCURRED TO PERFORM THE INSPECTIONS. THE FKA.A OBSERVES THE FOLLOWING HOLIDAYS: NEW YEARS DAY, MARTIN LUTHER KING DAY, PRESIDENTS DAY, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, VETERANS DAY, THANKSGIVING DAY, DAY AFTER THANKSGIVING, AND CHRISTMAS DAY.
- THE CONTRACTOR SHALL HAVE A SUPERVISOR PRESENT ON THE JOBSITE AT ALL TIMES WHO IS CAPABLE OF SPEAKING, READING AND WRITING IN THE ENGLISH LANGUAGE.

- THE CONTRACTOR SHALL OBTAIN A SUNSHINE STATE ONE CALL OF FLORIDA, INC. CERTIFICATION NUMBER AT LEAST TWO (2) BUSINESS DAYS PRIOR TO BEGINNING AN EXCAVATION, CALL 811.
- CONTRACTOR TO CONTACT LOCAL UTILITY COMPANIES FOR UNDERGROUND UTILITIES LOCATIONS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL SECURE ALL REQUIRED TEMPORARY UTILITY EASEMENTS REQUIRED PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR IS REQUIRED TO OBTAIN AND PAY FOR ALL APPLICABLE CONSTRUCTION PERMITS PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL IDENTIFY, LOCATE AND PROTECT ALL REFERENCE MONUMENTS WITHIN THE WORK AREA. TEMPORARILY RELOCATE DURING CONSTRUCTION AND RESTORE TO ORIGINAL POSITION UPON COMPLETION. FOLLOW FLORIDA STATUTES FOR RECORD KEEPING AND NOTIFICATION.
- THE CONTRACTOR SHALL PREPARE A STORM WATER POLLUTION PREVENTION PLAN, FILE COPY OF PLAN AND IMPLEMENT PLAN DURING CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE DEWATERING AS REQUIRED TO CONSTRUCT THE WORK. DEWATERING PERMIT SHALL BE SECURE BY THE CONTRACTOR PRIOR TO COMMENCING WORK.



AC	ASPHALTIC CONCRETE	PVI	POINT OF VERTICAL INTERSECTION
BM	BENCHMARK	PVT	POINT OF VERTICAL TANGENT OR END OF VERTICAL TANGENT
CB	CATCH BASIN/INLET	PVC	POLYVINYL CHLORIDE PIPE
CONC	CONCRETE	e	PVI TO POINT ON VERTICAL CURVE
CMP	CORRUGATED METAL PIPE	RCP	REINFORCED CONCRETE PIPE
EOP	EDGE OF PAVEMENT	RDG	RIDGE
EL	ELEVATION	TE	RIM OF TOP ELEVATION OF CATCH BASIN/INLET
(SCREENED)	EXISTING GRADE	SHLDR	SHOULDER
FFE	FINISHED FLOOR ELEVATION	TBM	TEMPORARY BENCHMARK
FG	FINISHED GRADE	BOS	BOTTOM OF SLOPE
FL	FLOWLINE	TOC	TOP OF CONCRETE
CG	GRADE CHANGE	TOS	TOP OF SLOPE
HDPE	HIGH DENSITY POLYETHYLENE PIPE	TC	TOP OF CURVE
IE	INVERT ELEVATION	TW	TOP OF WALL ELEVATION
JNT	JOINT		
MH	MANHOLE		
PVM	PAVEMENT		
PC	POINT OF HORIZONTAL CURVATURE OR BEGINNING OF CURVE		
PI	POINT OF HORIZONTAL INTERSECTION		
PT	POINT OF HORIZONTAL TANGENT OR END OF CURVE		
ℓ	PROPERTY LINE		

CURVE DATA:	
R	RADIUS
Δ	DELTA
L	LENGTH
T	TANGENT

5			
4			
3			
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CITY OF KEY WEST, FLORIDA
DEPARTMENT OF TRANSPORTATION
 627 PALM AVENUE, KEY WEST, FL 33040

CITY OF KEY WEST
PUBLIC TRANSPORTATION FACILITY
 5701 COLLEGE ROAD, KEY WEST, FL 33040

GENERAL NOTES, LEGEND AND ABBREVIATIONS
 Date: OCTOBER 2011
 Sheet: 2 of 10 Drawing: C-00B

STORM DRAIN LEGEND:

- TYPE 'C' CATCH BASIN PER FDOT INDEX 232
 RM 7.10
 BOS 0.50
 INV : 2.50(NW) 18" HDPE
 INV : 2.50(SW) 18" HDPE
- 5' TYPE 'J' STR. PER FDOT INDEX 200 W/ USF 4155-6210
 RM 10.30
 BOS 0.50
 INV : 4.00(SW) 24" HDPE
 INV : 2.50(SE) 24" HDPE
- 5' TYPE 'J' STR. PER FDOT INDEX 200 W/ USF 4155-6210
 RM 10.80
 BOS 2.00
 INV : 4.00(N) 18" HDPE
 INV : 4.00(W) 24" HDPE
 INV : 4.00(SE) 24" HDPE
- GRAVITY WELL
 RM 5.85
 BOS -0.50
 TOP OF WELL 3.00
- 5' TYPE 'J' STR. PER FDOT INDEX 200 W/ USF 4155-6210
 RM 10.65
 BOS 2.00
 INV : 4.00(N) 24" HDPE
 INV : 4.00(W) 24" HDPE
- 5' TYPE 'J' STR. PER FDOT INDEX 200 W/ USF 4155-6210
 RM 11.40
 BOS 2.00
 INV : 4.00(E) 24" HDPE
 INV : 4.00(S) 24" HDPE
- 5' TYPE 'J' STR. PER FDOT INDEX 200 W/ USF 4155-6210
 RM 11.25
 BOS 2.00
 INV : 4.00(N) 24" HDPE
 INV : 4.00(S) 24" HDPE
- 24" MITERED END SECTION PER FDOT INDEX 272
 INV : 4.00(NW) 24" HDPE
- TYPE 'C' CATCH BASIN PER FDOT INDEX 232
 RM 10.95
 BOS 2.00
 INV : 4.00(SW) 18" HDPE

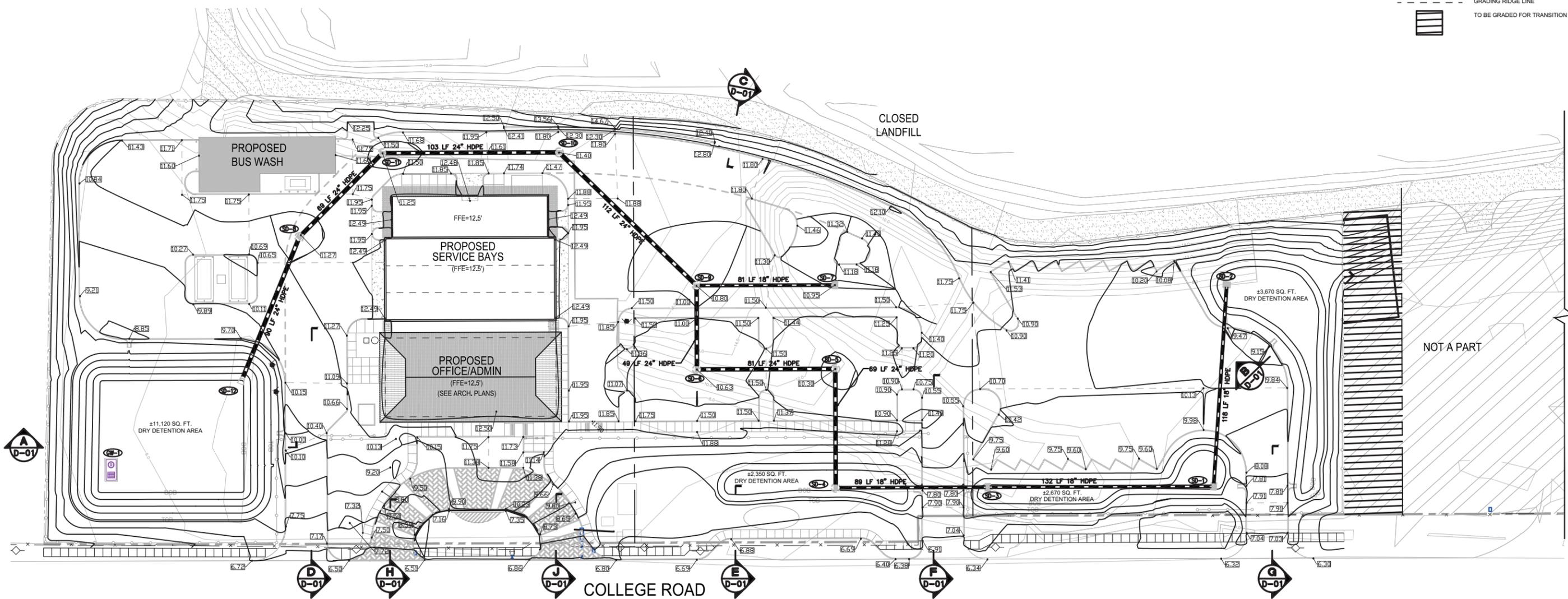
1" = 30'

PROJECT SITE

KEY MAP

1" = 30'

- LEGEND:
- PROPERTY LINE
 - PROJECT BOUNDARY LINE
 - PROPOSED CHAIN LINK FENCE
 - EXISTING POWER POLE
 - EXISTING FIRE HYDRANT
 - EXISTING WATER VALVE
 - EXISTING ASPHALT
 - PROPOSED PAVERS
 - PROPOSED CONCRETE
 - CATCH BASIN
 - STORM DRAIN MANHOLE
 - MITERED END SECTION
 - STORM DRAIN PIPE
 - GRADING RIDGE LINE
 - TO BE GRADED FOR TRANSITION

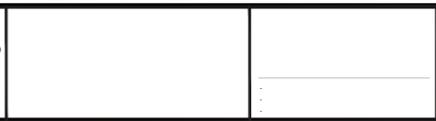


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 Fort Lauderdale, Florida 33309
 Tel: 954.780.0707
 EB 0004593



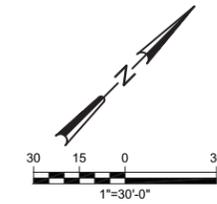
CITY OF KEY WEST, FLORIDA
 DEPARTMENT OF TRANSPORTATION
 627 PALM AVENUE, KEY WEST, FL 33040

CITY OF KEY WEST
 PUBLIC TRANSPORTATION FACILITY
 5701 COLLEGE ROAD, KEY WEST, FL 33040

PROPOSED GRADING AND DRAINAGE PLAN
 Date: OCTOBER 2011
 Sheet: 5 of 10 Drawing: C-02

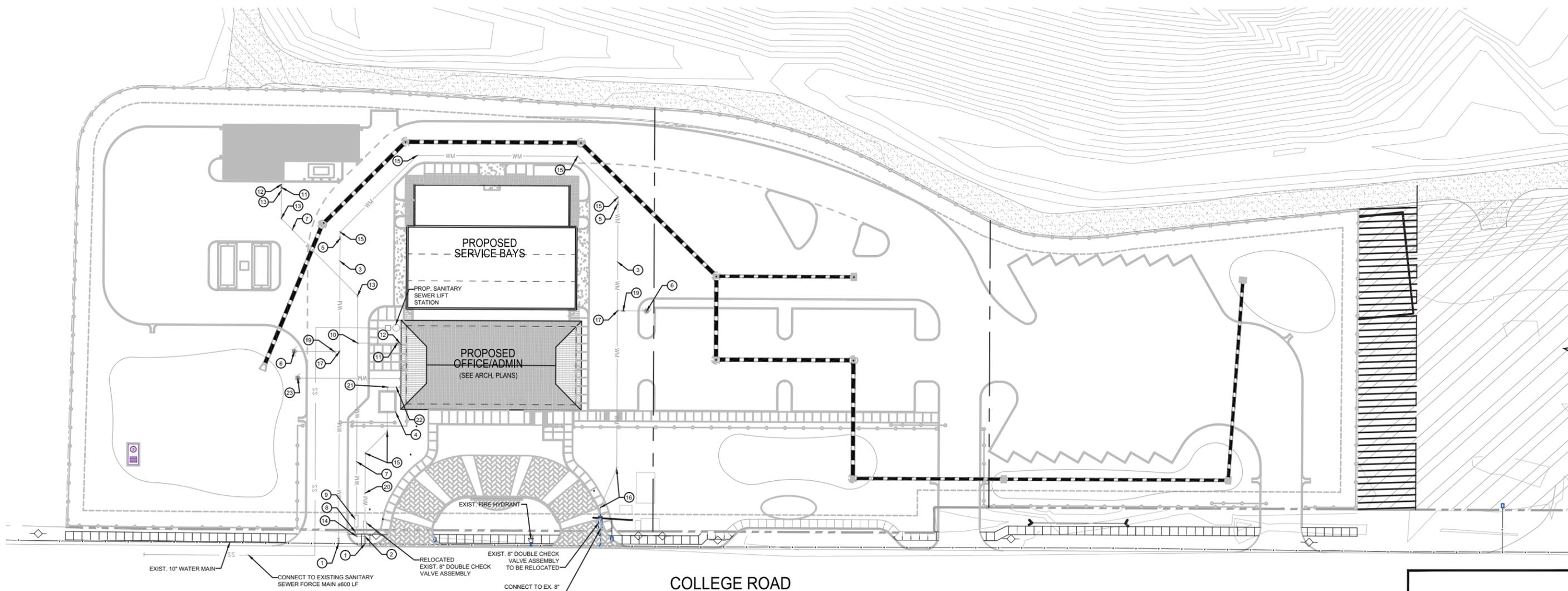
PROPOSED WATER SCHEDULE

- | | | |
|--|--|--|
| ① PROP. 10" X 8" TAPPING SLEEVE AND 8" TAPPING VALVE | ⑪ PROP. 2" GATE VALVE | ⑳ PROP. 8" 90° BEND |
| ② PROP. 8" X 2" TEE | ⑫ PROP. 2" DOMESTIC WATER CONNECTION (SEE PLUMBING PLANS FOR CONTINUATION) | ㉑ PROP. 8" FIRE CONNECTION (SEE PLUMBING PLANS FOR CONTINUATION) |
| ③ PROP. 8" WATER LINE | ⑬ PROP. 2" 45° BEND | ㉒ PROP. FIRE DEPT. CONNECTION |
| ④ PROP. FIRE PUMP | ⑭ PROP. 2" 90° BEND | |
| ⑤ PROP. 8" GATE VALVE | ⑮ PROP. 8" 45° BEND | |
| ⑥ PROP. FIRE HYDRANT ASSEMBLY | ⑯ PROP. 8" 22½° BEND | |
| ⑦ PROP. 2" DOMESTIC WATER LINE | ⑰ PROP. 8" X 6" TEE | |
| ⑧ PROP. 2" DOMESTIC WATER METER PER FKA | ⑱ PROP. 6" 90° BEND | |
| ⑨ PROP. 2" FKA APPROVED DOMESTIC BACKFLOW PREVENTER | ⑲ PROP. 6" GATE VALVE | |
| ⑩ PROP. 2" X 2" TEE | ㉓ PROP. 8" FIRE WATER LINE | |



KEY MAP
1" = 30'

- LEGEND:
- PROPERTY LINE
 - - - PROJECT BOUNDARY LINE
 - - - - - PROPOSED CHAIN LINK FENCE
 - ▨ PROPOSED PAVERS
 - ◇ EXISTING POWER POLE
 - EXISTING FIRE HYDRANT
 - EXISTING WATER VALVE
 - EXISTING ASPHALT



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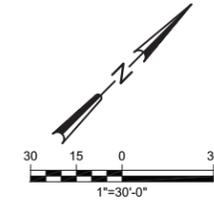
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CITY OF KEY WEST
 PUBLIC TRANSPORTATION FACILITY
 5701 COLLEGE ROAD, KEY WEST, FL 33040

PROPOSED UTILITY PLAN
 Date: OCTOBER 2011
 Sheet: 6 of 10 Drawing: C-03

SITE LEGEND

- ① PROPOSED SILT FENCE
- ② PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- ③ PROPOSED INLET PROTECTION



KEY MAP

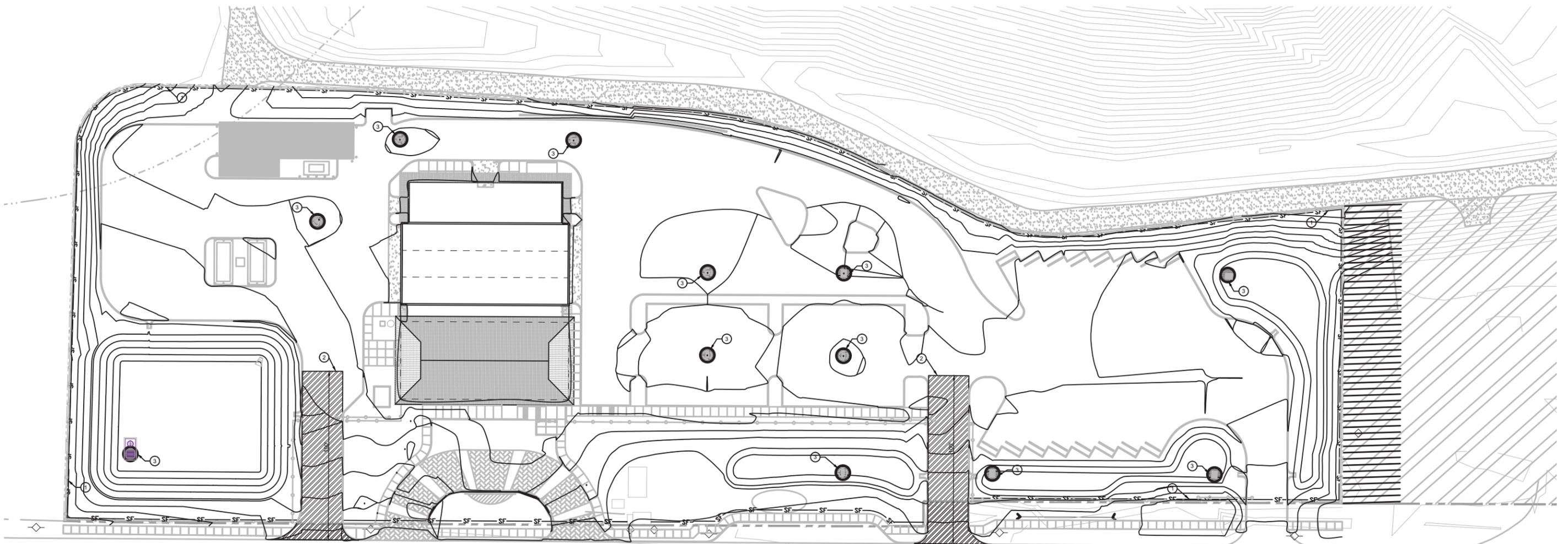
1" = 300'

LEGEND:

- — — — — PROPERTY LINE
- - - - - PROJECT BOUNDARY LINE
- SF - - - - - PROPOSED SILT FENCE
- ▨ PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED INLET PROTECTION

NOTES:

1. CONTRACTOR TO INSTALL SILT FENCE ALONG PROJECT BOUNDARY LINE PRIOR TO ANY LAND DISTURBING ACTIVITIES TAKING PLACE TO ENSURE NO IMPACTS TO ADJACENT WETLANDS, SURFACE WATERS AND/OR ADJACENT PROPERTIES/PARCELS (REFER TO STAKED SILT FENCE BARRIER DETAIL ON SHEET D-01). SILT FENCE TO REMAIN IN PLACE AND BE MAINTAINED IN FUNCTIONING CONDITION UNTIL PROJECT FINAL COMPLETION.
2. CONTRACTOR TO COMPLY WITH ALL SEDIMENTATION AND EROSION CONTROL REQUIREMENTS AND NPDES REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION DURING CONSTRUCTION UNTIL FINAL PROJECT COMPLETION. ADDITIONAL MEASURES MAY BE NECESSARY TO COMPLY WITH REGULATORY REQUIREMENTS. CONTRACTOR TO UPDATE AND MAINTAIN SEDIMENTATION AND EROSION CONTROL PLAN PER REGULATORY REQUIREMENTS.



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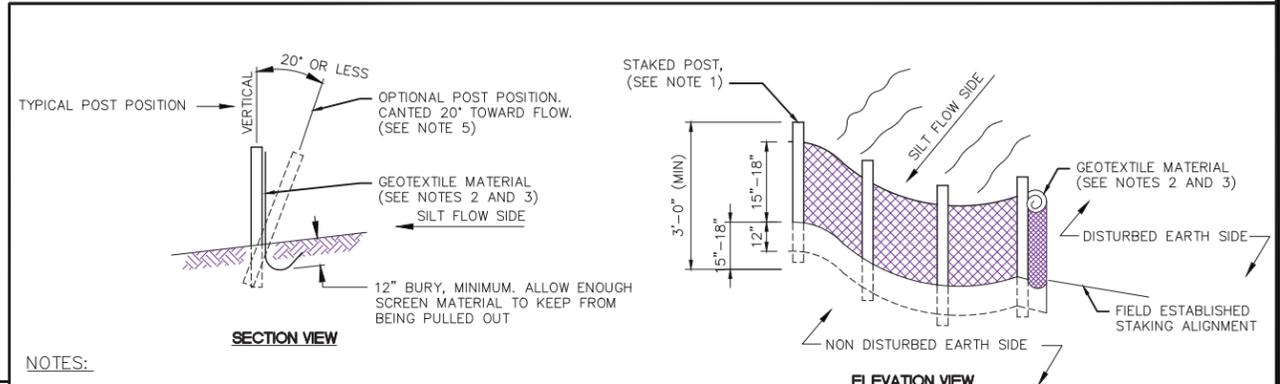
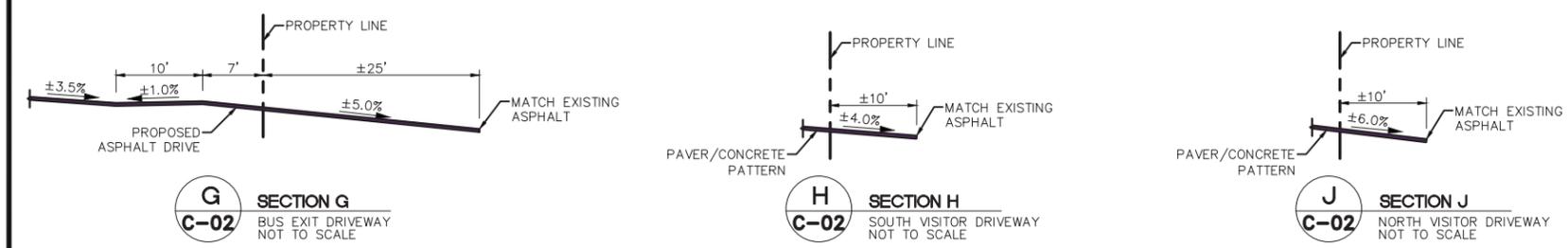
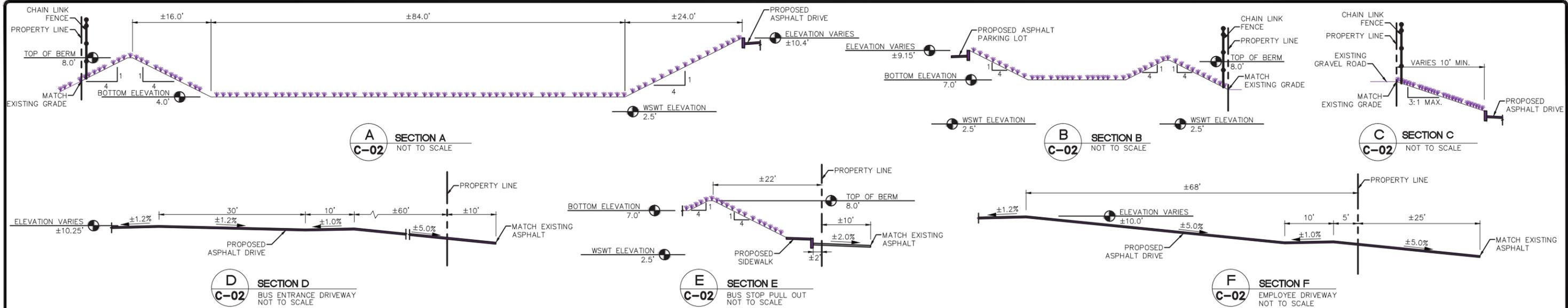
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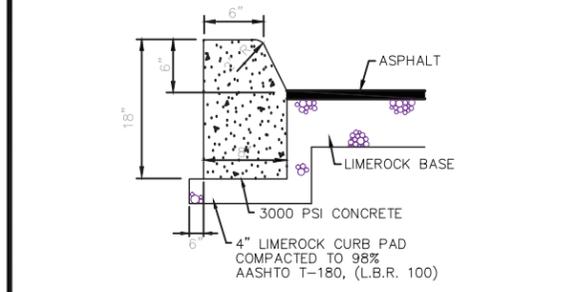
CITY OF KEY WEST
 PUBLIC TRANSPORTATION FACILITY
 5701 COLLEGE ROAD, KEY WEST, FL 33040

STORMWATER POLLUTION PREVENTION PLAN
 Date: OCTOBER 2011
 Sheet: 7 of 10 Drawing: C-04

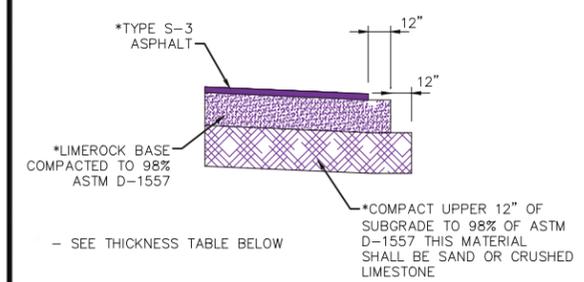


- NOTES:
1. POST: 2"x2" WOOD, P.T. OR 2-1/2"Ø STEEL AT 6' CENTERS, MAXIMUM.
 2. GEOTEXTILE: GRAB TENSILE AT 90 LBS, TRAPEZOIDAL TEAR AT 35 LBS., MULLEN BURST AT 180 PSI.
 3. GEOTEXTILE MATERIAL SHALL BE BURIED IN THE GROUND A MINIMUM OF 12" AND BACK FILLED.
 4. ALSO SEE FOOT INDEX 199, "GEOTEXTILE CRITERIA", EROSION CLASS.
 5. OPTIONAL POST POSITION REQUIRED WHEN SLOPE IS GREATER THAN 1:2.

STAKED SILT BARRIER DETAIL
NOT TO SCALE



TYPE D CURB
REFER TO FOOT INDEX 300
NOT TO SCALE



LOCATION	PAVEMENT THICKNESS	LIMEROCK BASE	SUBGRADE
ASPHALT AREA	2"	12"	12"

TYPICAL PAVEMENT SECTION
NOT TO SCALE

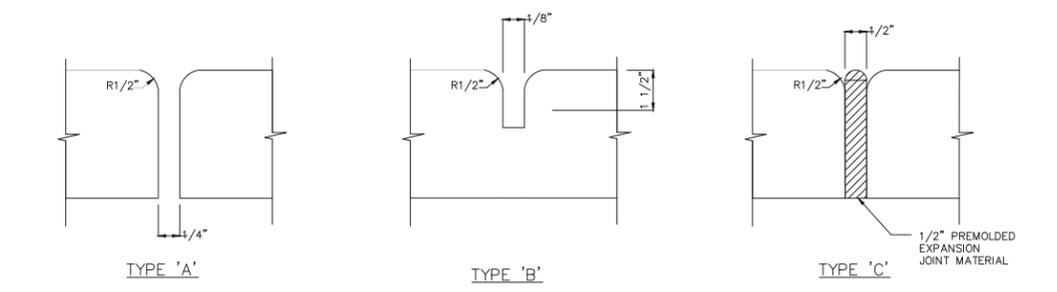
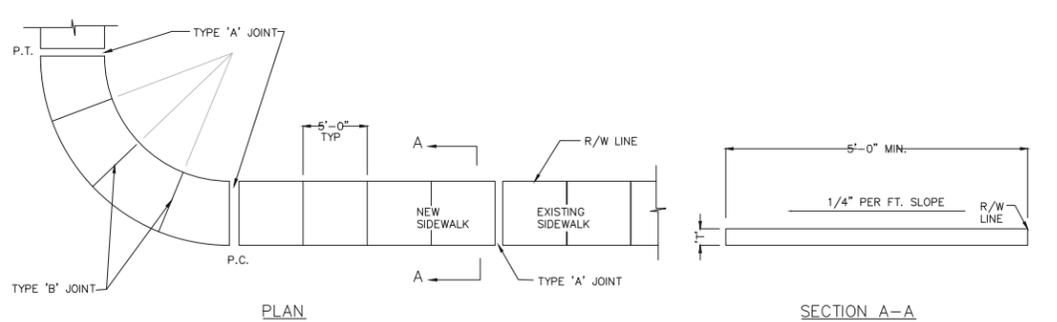


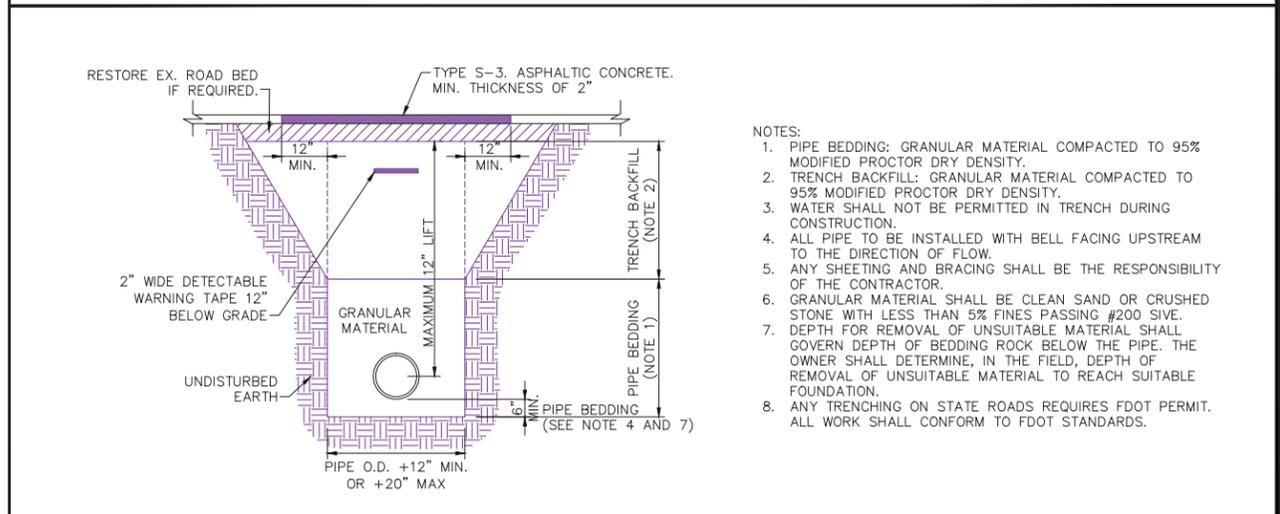
TABLE SIDEWALK THICKNESS--'T'

LOCATION	'T'
RESIDENTIAL AREAS	4"
AT DRIVEWAYS AND OTHER AREAS	6" W/ 6 x 6 W2.0 x W2.0 WWF

TABLE OF SIDEWALK JOINTS

TYPE	LOCATION
'A'	P.C. AND P.T. OF CURVES, JUNCTION OF EXISTING AND NEW SIDEWALKS.
'B'	5'-0" CENTER TO CENTER ON SIDEWALKS.
'C'	WHERE SIDEWALK ABUTS CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES.

SIDEWALK DETAILS
REFER TO FOOT INDEX 304
NOT TO SCALE



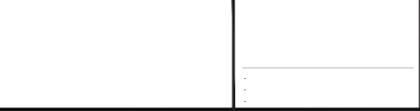
BEDDING TRENCH DETAIL
NOT TO SCALE

- NOTES:
1. PIPE BEDDING: GRANULAR MATERIAL COMPACTED TO 95% MODIFIED PROCTOR DRY DENSITY.
 2. TRENCH BACKFILL: GRANULAR MATERIAL COMPACTED TO 95% MODIFIED PROCTOR DRY DENSITY.
 3. WATER SHALL NOT BE PERMITTED IN TRENCH DURING CONSTRUCTION.
 4. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF FLOW.
 5. ANY SHEETING AND BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 6. GRANULAR MATERIAL SHALL BE CLEAN SAND OR CRUSHED STONE WITH LESS THAN 5% FINES PASSING #200 SIVE.
 7. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. THE OWNER SHALL DETERMINE, IN THE FIELD, DEPTH OF REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.
 8. ANY TRENCHING ON STATE ROADS REQUIRES FDOT PERMIT. ALL WORK SHALL CONFORM TO FDOT STANDARDS.

NOT FOR CONSTRUCTION

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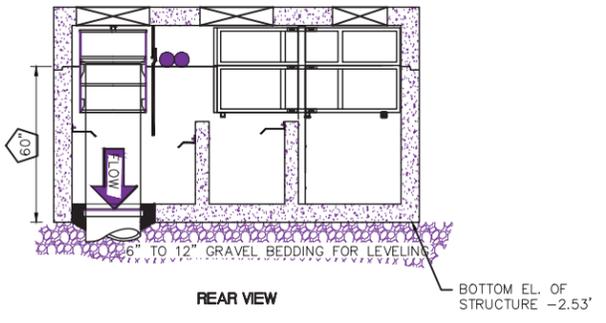
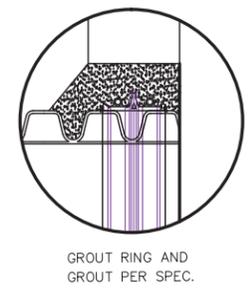
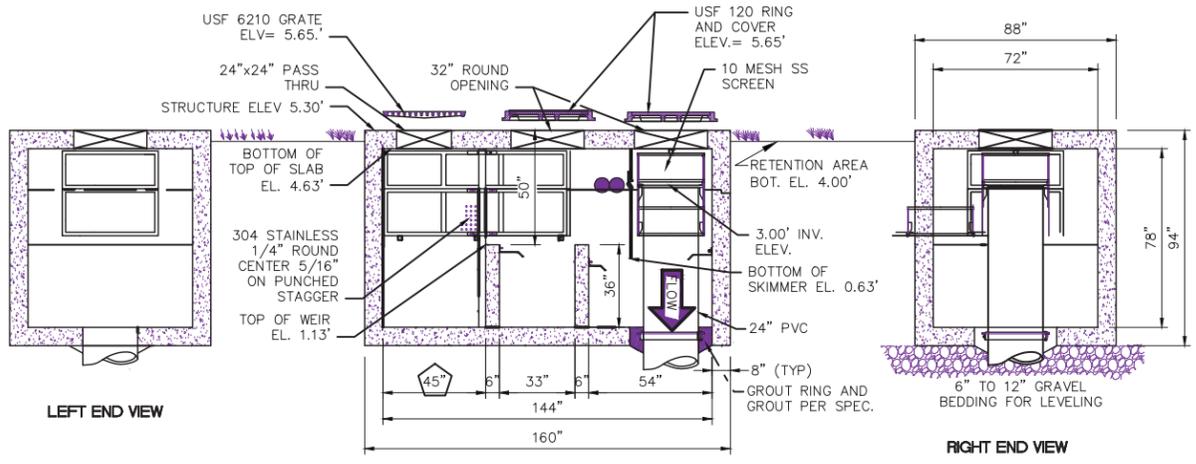
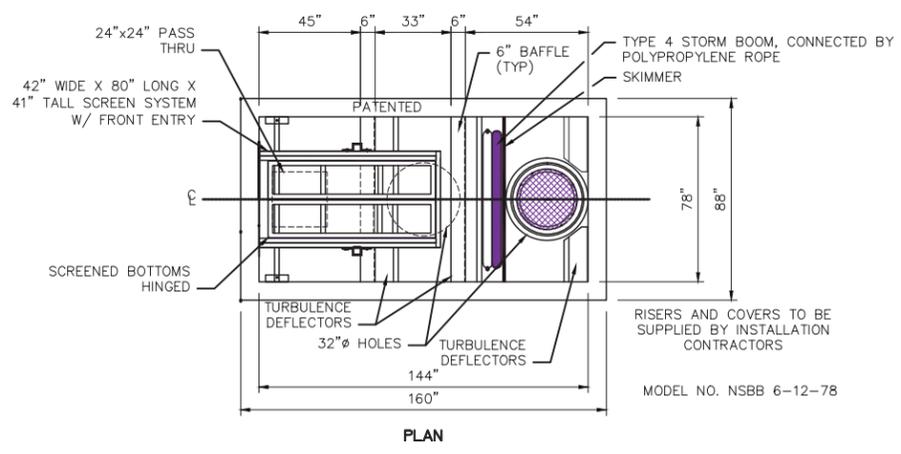
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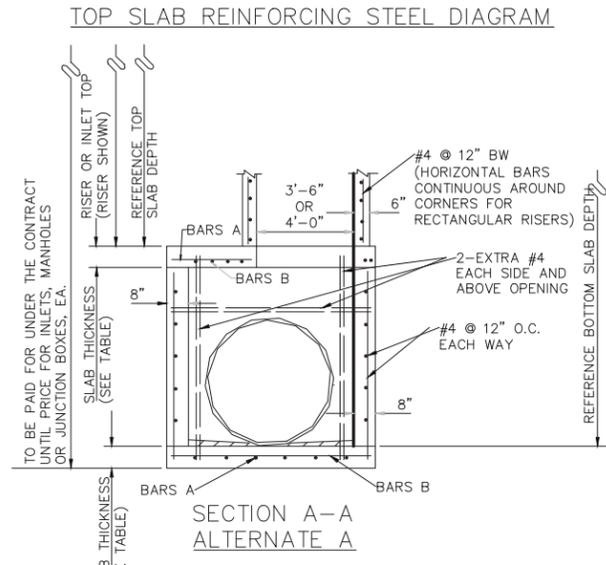
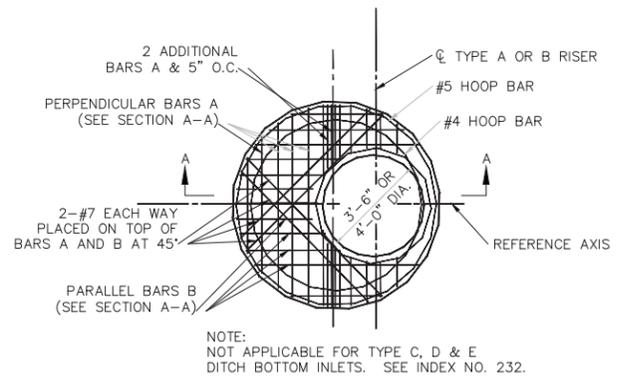
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DETAIL SHEET
Date: OCTOBER 2011
Sheet: 8 of 10 Drawing: C-05



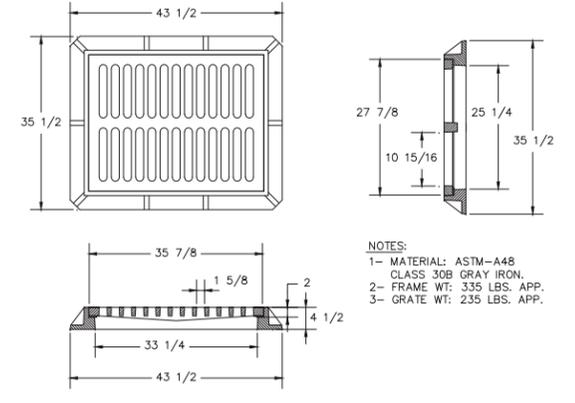
STORM WATER DRAINAGE BAFFLE BOX WITH INJECTION WELL (GRAVITY)
NOT TO SCALE

- NOTES:**
1. CONCRETE 28 DAY COMPRESSIVE STRENGTH $f_c=5,000$ PSI.
 2. REINFORCING: ASTM A-615, GRADE 60.
 3. SUPPORTS AN H2O LOADING AS INDICATED BY AASHTO.
 4. JOINT SEALANT: BUTYL RUBBER SS-S-00210
 5. ALL WALLS, TOP + BOTTOM ARE 8" THICK.
 6. STEEL EMBEDDED IN CONCRETE 3" MINIMUM FROM EDGE
 7. GROUTING RING TO BE SUPPLIED BY INSTALL CONTRACTOR.
 8. DIMENSIONS PENTAGON BLOCK ARE CRITICAL DIMENSIONS.
 9. PRECAST COMPANY TO DESIGN THE STRUCTURE AND DETERMINE THE REQUIRED STEEL REINFORCEMENT IN THE STRUCTURE WALLS AND TOP. SHOP DRAWINGS SHALL BE PROVIDED TO ENGINEER FOR APPROVAL. SEE PROPOSED GRADING PLAN FOR BAFFLE BOX LOCATION.

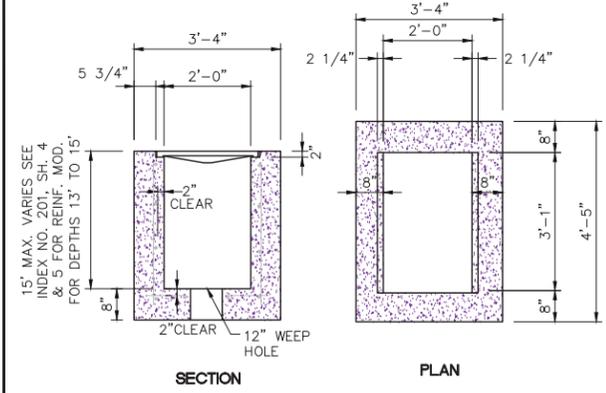


- NOTES:**
1. CIRCULAR STRUCTURES (ALTERNATES 'A') MAY BE CONSTRUCTED OF CONCRETE OR BRICK, BUT RECTANGULAR STRUCTURES (ALTERNATES 'B' & 'C') SHALL BE CONSTRUCTED OF CONCRETE ONLY. THE CONCRETE MAY BE CAST-IN-PLACE OR PRECAST.
 2. WALL REINFORCEMENTS AND THICKNESS ARE FOR EITHER CAST-IN-PLACE OR PRECAST CONCRETE. PRECAST CIRCULAR UNITS IN ACCORDANCE WITH ASTM SPECIFICATION C-478 WILL BE ACCEPTABLE. TOP AND FLOOR SLAB THICKNESS AND REINFORCEMENT ARE FOR ALL TYPES OF CONSTRUCTION.
 3. PRECAST TOP AND/OR FLOOR SLABS MAY BE OF THE SAME CONCRETE AS SPECIFIED IN ASTM SPECIFICATIONS C-478 FOR PRECAST CIRCULAR UNITS.
 4. CORNER FILLETS SHOWN FOR RECTANGULAR STRUCTURES ARE NECESSARY ONLY WHEN STRUCTURES ARE USED IN CONJUNCTION WITH CIRCULAR TOPS.
 5. STRUCTURES SHALL BE SECURED TO INLET THROATS, RISERS OR MANHOLE TOPS WITH A MINIMUM OF 6-NO 4 BARS 12" LONG, OR AS SHOWN ON SHEET 2.
 6. ANY INLET, MANHOLE OR JUNCTION BOX MAY BE USED IN CONJUNCTION WITH ANY INLET THROAT OR MANHOLE TOP.
 7. MORTAR USED TO SEAL THE PIPE IN THE WALLS OF THE PRECAST UNITS SHALL BE OF SUCH A MIX THAT SHRINKAGE WILL NOT CAUSE LEAKAGE INTO OR OUT OF THE UNITS MAXIMUM OPENING FOR PIPE SHALL BE MAX REQUIRED OD + 6".
 8. BRICK MASONRY CONSTRUCTION SHALL BE PLASTERED WITH 1/2" THICK MORTAR INSIDE AND OUTSIDE.
 9. CONCRETE PROTECTION FOR REINFORCEMENT IN CAST-IN-PLACE OR PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH CHAPTER 7 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-71)"
 10. PROVIDE SHOP DRAWINGS OF STRUCTURES.
 11. PRECAST CONCRETE MANHOLES SHALL CONFORM TO ASTM C478, SHALL BE TYPE II ACID RESISTANT CEMENT AND SHALL MAINTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS.
 12. REFER TO FDOT INDEX 200 FOR ADDITIONAL DETAILS AND SPECIFICATIONS.
 13. ALL REINFORCING BARS SHALL BE ASTM A615 GRADE 60, ALL COVER SHALL BE 3 INCHES MINIMUM.
 14. FOR BAFFLE INFORMATION REFER TO POLLUTION RETARDANT CATCH BASIN DETAIL MB IN SHEET SW-16.

TYPE 'J' STRUCTURE
REFER TO FDOT INDEX 200
NOT TO SCALE



FRAME AND GRATE DETAIL
REFER TO USF 4155-6210
NOT TO SCALE



RECOMMENDED MAXIMUM PIPE SIZE:
2'-0" WALL-18" PIPE
3'-1" WALL-24" PIPE

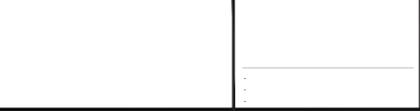
TYPE 'C' STRUCTURE
REFER TO FDOT INDEX 232
NOT TO SCALE

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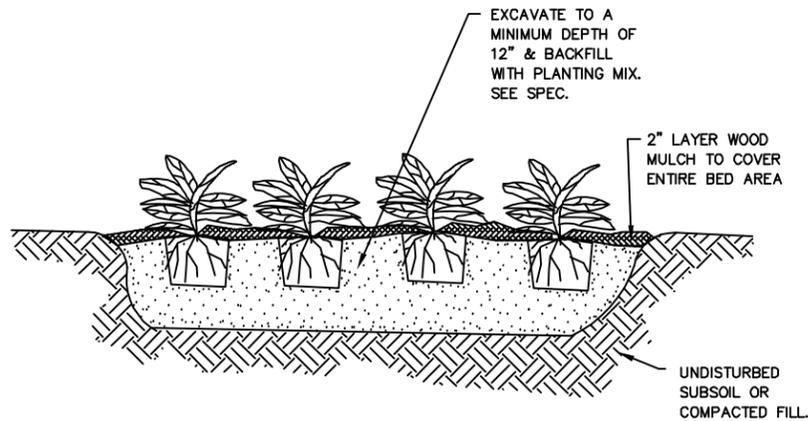
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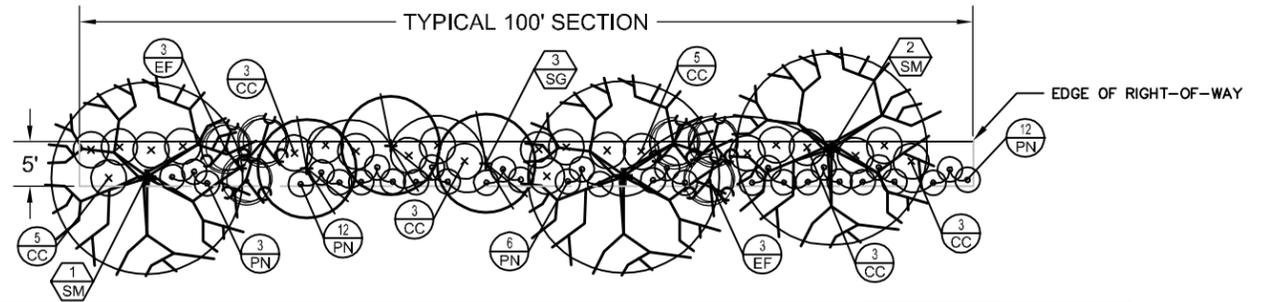
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DETAIL SHEET
Date: OCTOBER 2011
Sheet: 9 of 10 Drawing: C-06



TYPICAL GROUNDCOVER PLANTING

N.T.S.

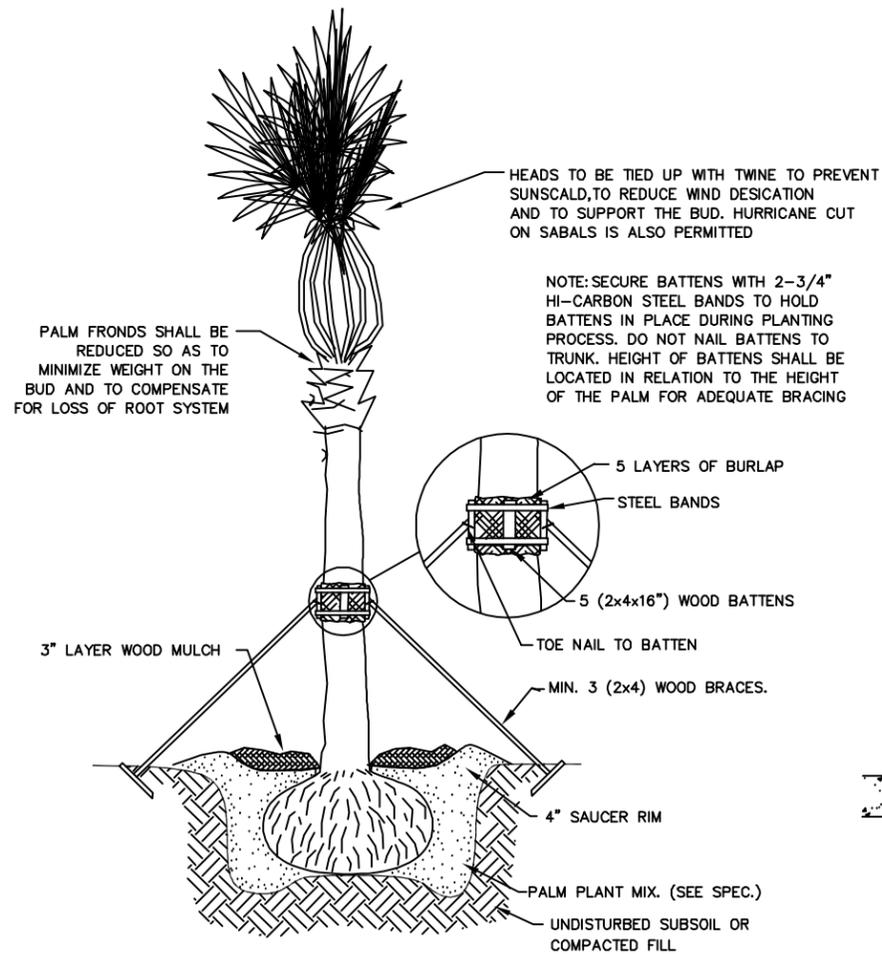


STREET FRONTAGE BUFFER PLANT LIST

KEY	SCIENTIFIC NAME	COMMON NAME	QTY.	SIZE	REMARKS	TOTAL
TREES						
SG	SIMAROUBA GLAUCA	PARADISE TREE	24	10' HT. x 5' SPR.	2" CALIPER	TREES
SM	SWietenia MAHOGANI	MAHOGANY	24	12' HT. x 6' SPR.	2" CALIPER	48
SHRUBS						
PN	PSYCHOTRIA NERVOSA	WILD COFFEE	264	16" HT. x 16" SPR.	3 GAL. CAN	SHRUBS 488
EF	EUGENIA FOETIDA	SPANISH STOPPER	48	16" HT. x 16" SPR.	3 GAL. CAN	
CC	CAPPARIS CYNOPHALLOPHORA	JAMAICA CAPER	176	16" HT. x 16" SPR.	3 GAL. CAN	

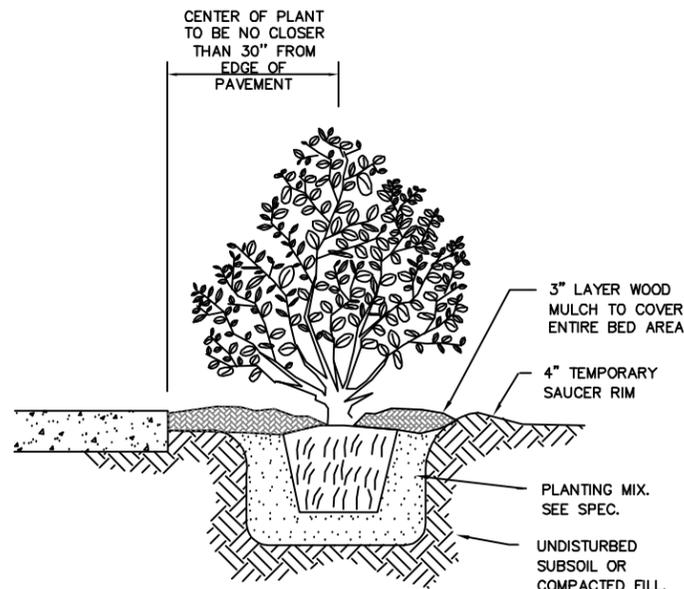
TYPICAL ROADWAY BUFFER

SCALE 1" = 10'



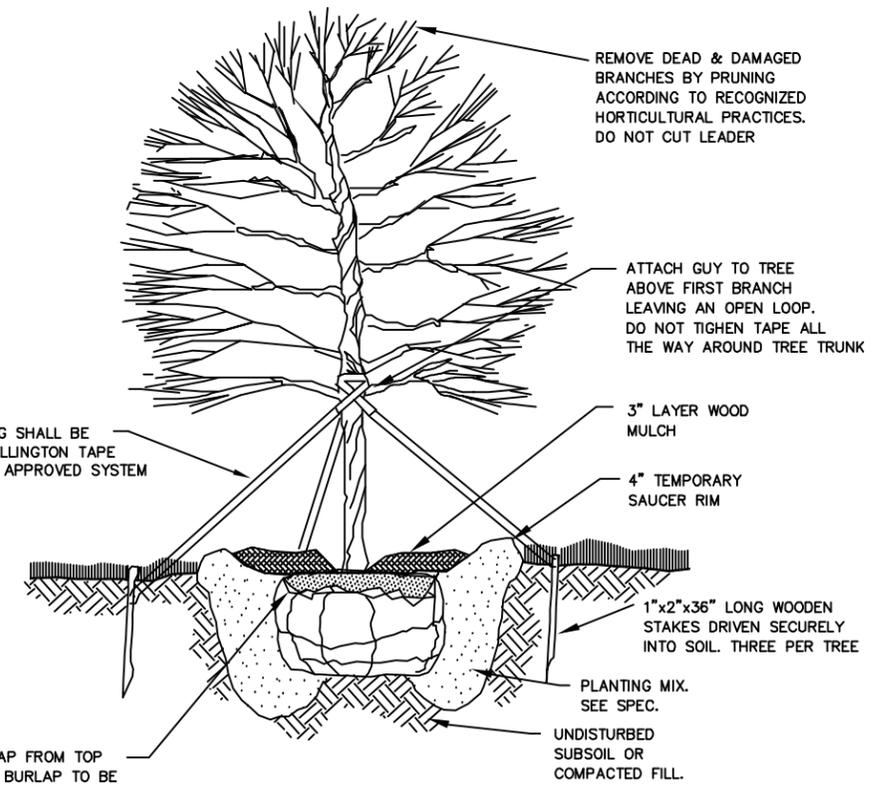
SINGLE TRUNK PALM

N.T.S.



SINGLE TRUNK PALM

N.T.S.



TYPICAL TREE PLANTING

N.T.S.

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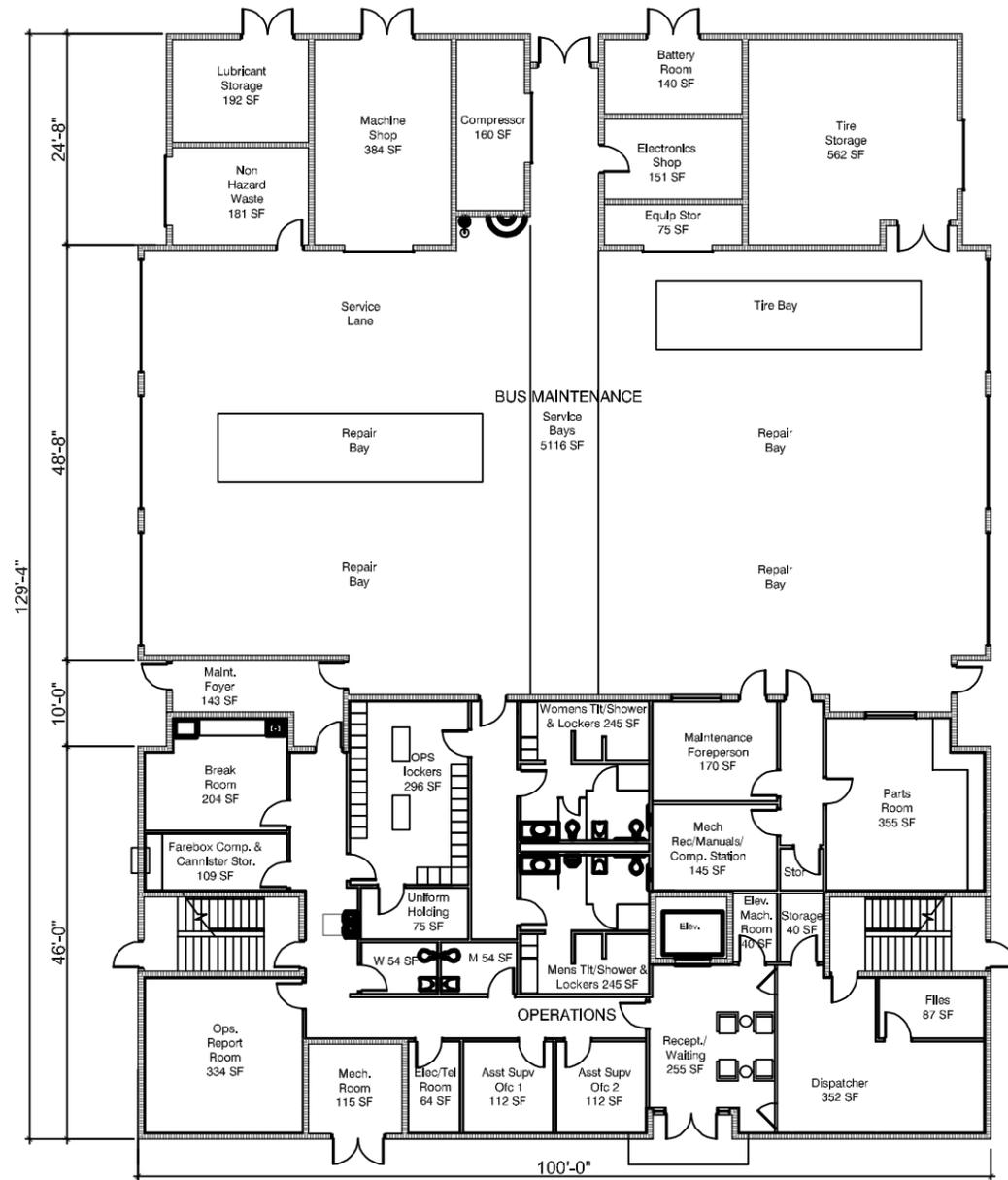


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LANDSCAPE PLAN

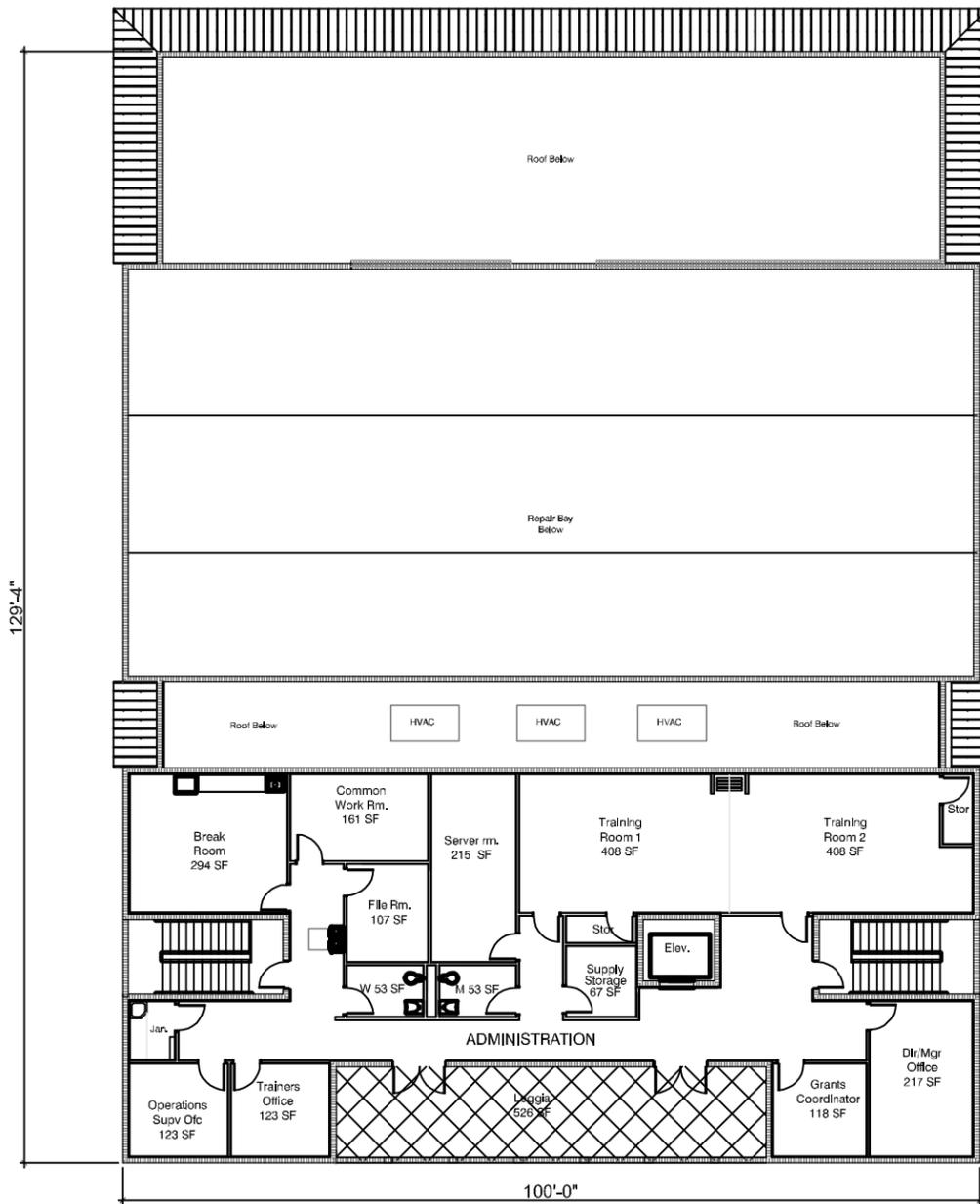
Date: OCTOBER 2011
 Sheet: of 15 Drawing: LD-101



FIRST FLOOR PLAN

FIRST LEVEL

SCALE : 3/32" = 1'-0"



SECOND FLOOR PLAN - OPT A

SECOND LEVEL

SCALE : 3/32" = 1'-0"



CONCEPTUAL PLANS

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 627 PALM AVENUE, KEY WEST, FL 33040

CITY OF KEY WEST DEPARTMENT OF TRANSPORTATION FACILITY

Date: OCTOBER 2011
 Sheet: _____ of _____ Drawing: _____

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