WALTON COUNTY
30A SOUTH PARKING IMPROVEMENTS
FOCUS AREAS 2, 3, 5, 7

201 EAST PINE STREET, SUITE 1000
ORLANDO, FLORIDA 32801
TEL: (407) 839-3955 FAX: (407) 839-3790
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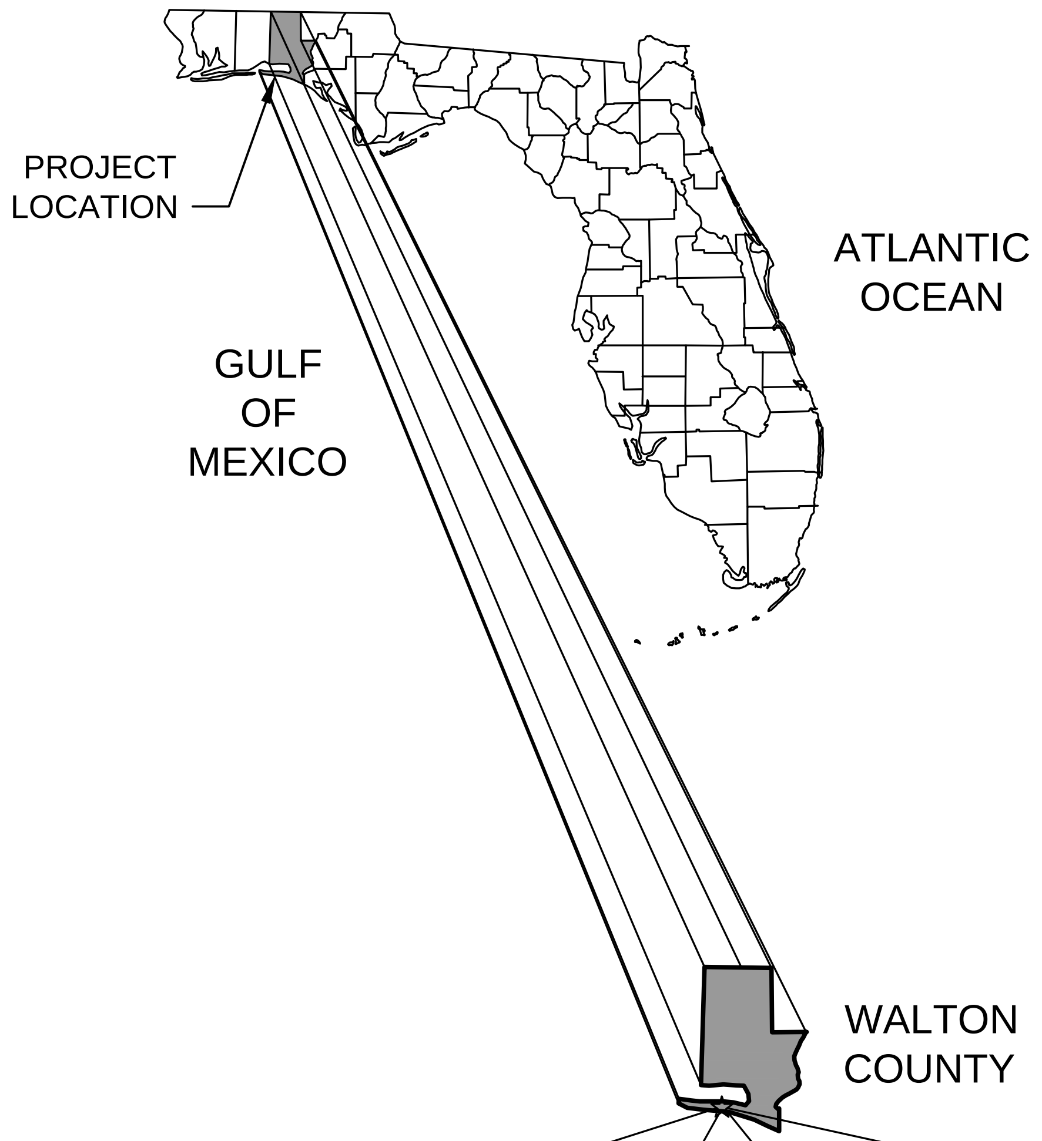
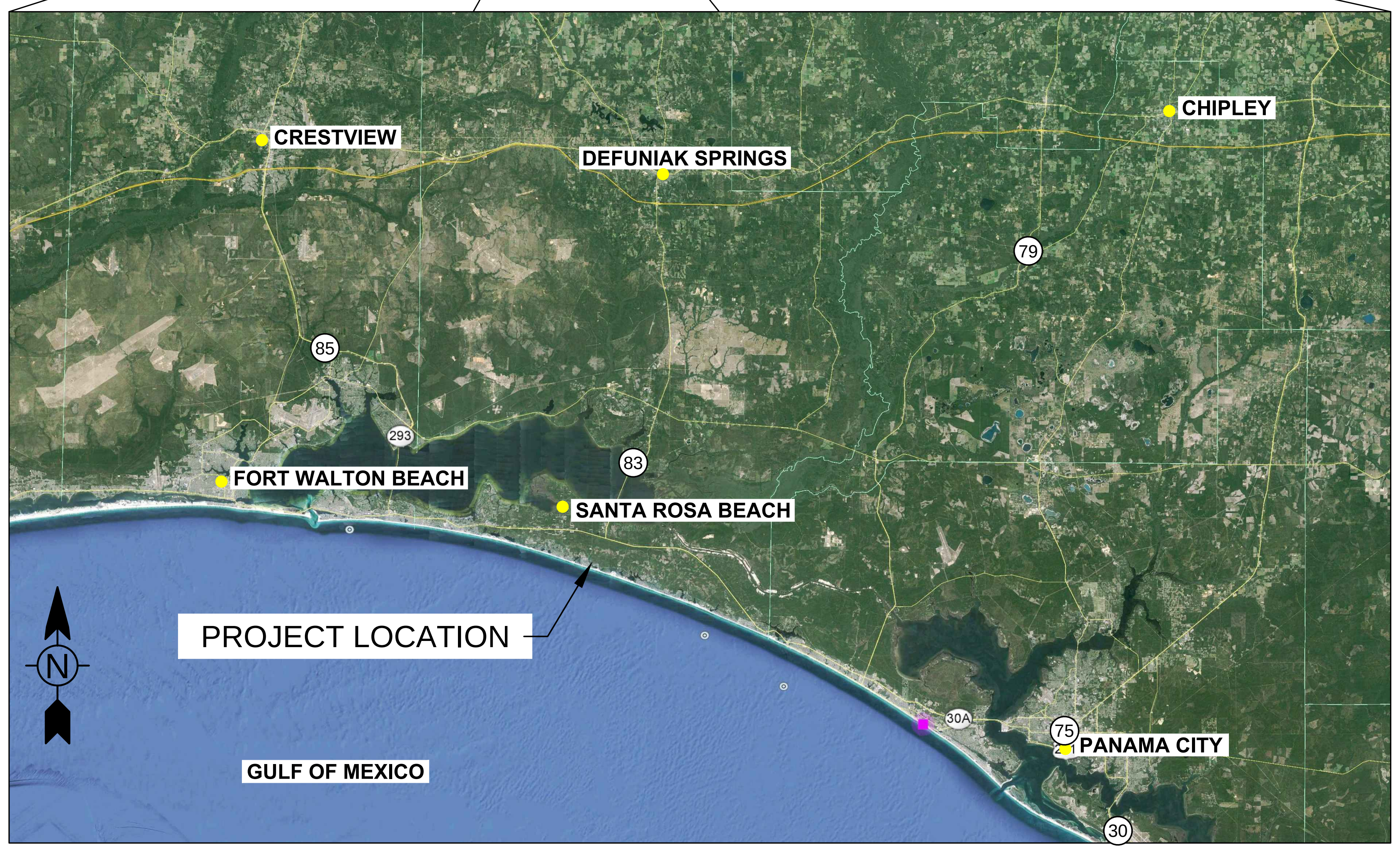
CONSTRUCTION DRAWINGS
FOR
WALTON COUNTY


PROJECT LOCATION
ATLANTIC OCEAN
GULF OF MEXICO
WALTON COUNTY


CRESTVIEW
DEFUNIAK SPRINGS
CHIPLEY
79
85
293
83
FORT WALTON BEACH
SANTA ROSA BEACH
PROJECT LOCATION
N
30A
75
PANAMA CITY
GULF OF MEXICO
30

BOARD OF COUNTY COMMISSIONERS

WILLIAM "BILL" CHAPMAN	DISTRICT 1
CECILIA JONES, VICE-CHAIRMAN	DISTRICT 2
BILL IMFELD	DISTRICT 3
SARA COMANDER, CHAIRMAN	DISTRICT 4
CINDY MEADOWS	DISTRICT 5
LARRY JONES	COUNTY ADMINISTRATOR
WILMER STAFFORD	PUBLIC WORKS DIRECTOR

INDEX OF DRAWINGS

Sheet Number	Sheet Title
G-000	COVER SHEET
G-001	GENERAL NOTES
G-002	LEGEND AND ABBREVIATIONS
C-101	PROJECT KEY PLAN
C-102	FOCUS AREA 2A - DUNE ALLEN - SITE PLAN
C-103	FOCUS AREA 2B - DUNE ALLEN - SITE PLAN
C-104	FOCUS AREA 3 - GULF PLACE - SITE PLAN
C-105	FOCUS AREA 5 - BLUE MOUNTAIN BEACH - SITE PLAN
C-106	FOCUS AREA 7 - EASTERN LAKE - SITE PLAN
C-201	FOCUS AREA 2 - GRADING & DRAINAGE PLAN
C-202	FOCUS AREA 3 & 7 - GRADING & DRAINAGE PLAN
C-203	FOCUS AREA 5 - GRADING & DRAINAGE PLAN
C-501	CIVIL DETAILS
C-502	CIVIL DETAILS
C-503	TYPICAL PARKING SECTIONS
L101	FOCUS AREA 2A - PLANTING PLAN & SCHEDULE
L102	FOCUS AREA 2B - PLANTING PLAN
L103	FOCUS AREA 2B - PLANTING PLAN
L104	FOCUS AREA 2B - PLANTING SCHEDULE & DETAILS
L105	FOCUS AREA 3 - PLANTING PLAN
L106	FOCUS AREA 3 - PLANTING SCHEDULE & DETAILS
L107	FOCUS AREA 5 - PLANTING PLAN
L108	FOCUS AREA 5 - PLANTING SCHEDULE & DETAILS
E-101	FOCUS AREA 3 - GULF PLACE - ELECTRICAL SITE PLAN
E-102	ELECTRICAL DETAILS

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P.E. No. 74415, FL

201 East Pine Street, Suite 1000
Orlando, Florida 32801
Engineering Business No. 2429

DATE ______________

PROJECT LOCATION:

CLIENT INFORMATION:

Tt PROJECT No.:
200-11616-15004

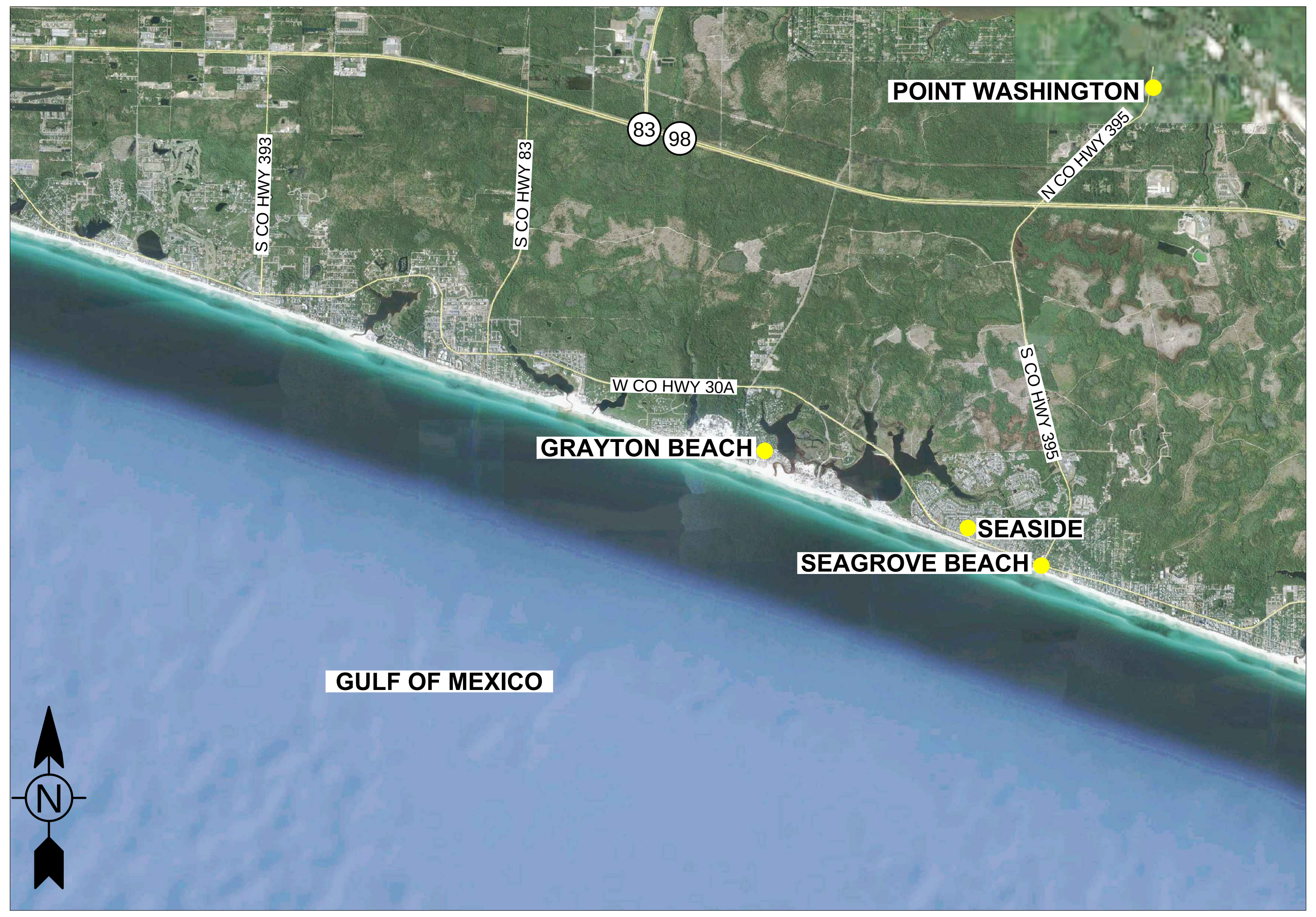
CLIENT PROJECT No.:

PROJECT DESCRIPTION / NOTES:

ISSUED:

60% SUBMITTAL

VICINITY MAP:


POINT WASHINGTON
83
98
S CO HWY 393
S CO HWY 83
N CO HWY 395
W CO HWY 30A
GRAYTON BEACH
S CO HWY 395
SEASIDE
SEAGROVE BEACH
GULF OF MEXICO
N

GENERAL NOTES

GENERAL:

1. BENCHMARK FOR CONSTRUCTION HAS BEEN PROVIDED ON SHEETS C-102 THRU C-106.
2. ALL LABOR, MATERIALS, AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY WALTON COUNTY. WHERE CONFLICTS OR OMISSIONS EXIST, THE WALTON COUNTY STANDARDS SHALL DICTATE. SUBSTITUTIONS AND DEVIATION FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.
3. SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
4. ALL MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH THE FDOT INDICES AND SPECIFICATIONS, LATEST EDITION, UNLESS OTHERWISE WAIVED.
5. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND IN HAND BEFORE BEGINNING ANY CONSTRUCTION. NO CONSTRUCTION OR FABRICATION OF ANY ITEM SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED ALL PLANS AND ANY OTHER DOCUMENTATION FROM ALL OF THE PERMITTING AND ANY OTHER REGULATORY AUTHORITIES. ANY PENALTIES, STOP WORK ORDERS OR ADDITIONAL WORK RESULTING FROM THE CONTRACTOR BEING IN VIOLATION OF THE REQUIREMENTS ABOVE, SHALL BE FULLY BORNE BY THE CONTRACTOR.
6. THE LOCATION OF ALL EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING UNDERGROUND UTILITIES, WHETHER SHOWN ON THE PLAN OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FIRST. ANY FEES ASSOCIATED WITH UTILITY RELOCATIONS SHALL BE BORNE IN ACCORDANCE WITH RESPECTIVE UTILITY COMPANY STANDARDS. IT IS REQUESTED UTILITY COMPANIES MOVE THEIR PARTICULAR UTILITIES. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE RELOCATION OF THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
7. THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING TO BE HELD BETWEEN WALTON COUNTY, UTILITIES, ENGINEER OF RECORD, AND CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
8. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND, INCLUDING LANDSCAPE SPRINKLERS, SHALL BE PLACED BENEATH THE PAVEMENT AND ITS EDGES PRIOR TO THE CONSTRUCTION OF THE PAVEMENT. THE PAVEMENT SHALL NOT BE CUT WITHOUT PRIOR APPROVAL OF THE ENGINEER.
9. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND AT LEAST 48 HOURS HOURS BEFORE REQUIRED INSPECTION ON EACH AND EVERY PHASE OF WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS NOTICE PRIOR TO ANY SCHEDULED TESTING. NO PRESSURE TESTING, OR FINAL TESTING WILL BE ACCEPTED UNLESS WITNESSED BY THE ENGINEER'S REPRESENTATIVE.
10. ALL CONTRACTORS, COUNTY REPRESENTATIVES, AND UTILITY COMPANIES ARE RESPONSIBLE FOR THEIR RESPECTIVE SURVEYING AND LAYOUT FROM BENCHMARK PROVIDED ON CONSTRUCTION PLANS. ANY SURVEY MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE REPLACED UPON COMPLETION OF THE WORK BY A REGISTERED LAND SURVEYOR.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY CONSTRUCTION ACTIVITIES FROM TAKING PLACE OUTSIDE OF THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS. ANY ON-SITE OR OFFSITE AREAS DISTURBED SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER.
12. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS AND ALL PERMITS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE TOTAL (X) SETS OF RECORD DRAWINGS TO THE ENGINEER OF RECORD WITHIN TWO (2) WEEKS AFTER CONSTRUCTION HAS BEEN COMPLETED ON EACH PHASE.
13. TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS WERE TAKEN FROM SURVEY PROVIDED BY: TETRA TECH, 201 E. PINE ST., SUITE 1000, ORLANDO, FL 32801.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY TESTING TO ASSURE THAT THE PROPER COMPACTION HAS BEEN ACHIEVED ON THE SUBGRADE, BASE, AND ALL OTHER PERTINENT AREAS THAT HAVE BEEN COMPLETED. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH TESTING AND RETESTING OF THE AREAS AND SHALL PROVIDE THE OWNER AND THE ENGINEER WITH COPIES OF THE CERTIFICATION OF COMPACTION FROM THE TESTING COMPANY.
15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXISTING SITE CONDITIONS OF SOIL PRIOR TO N.T.P. CONSTRUCTION TO DETERMINE IF ANY OFF SITE MATERIALS WILL NEED TO BE IMPORTED TO ACHIEVE THE GRADES SPECIFIED ON THE PLANS.
16. ALL EXCESS FILL FROM SITE SHALL BE STOCKPILED BY THE CONTRACTOR, IN A LOCATION DETERMINED BY THE OWNER OR THE OWNER'S REPRESENTATIVE AND THE ENGINEER.
17. CLEAR AREAS INDICATED SHALL BE COMPLETELY CLEAR OF ALL TIMBER, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH, AND ALL OTHER DEBRIS AND OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE GROUND.
18. PRIOR TO BID PREPARATION, THE CONTRACTOR MUST BECOME FAMILIAR WITH THE OVERALL SITE CONDITIONS AND PERFORM ADDITIONAL INVESTIGATIONS AS DETERMINED NECESSARY TO UNDERSTAND THE LIMIT AND DEPTH OF EXPECTED ORGANIC SILT PEAT AREAS, ADEQUACY OF EXISTING MATERIALS AS FILL, DEWATERING REQUIREMENTS, CLEAN FILL REQUIRED FROM OFFSITE, AND MATERIALS TO BE DISPOSED OF OFFSITE, ALL OF WHICH WILL AFFECT HIS PRICING. ANY DELAY, INCONVENIENCE, OR EXPENSE CAUSED TO THE CONTRACTOR DUE TO INADEQUATE INVESTIGATION OF EXISTING CONDITIONS SHALL BE INCIDENTAL TO THE CONTRACT, AND NO EXTRA COMPENSATION WILL BE ALLOWED. THE MATERIALS ANTICIPATED TO BE ENCOUNTERED DURING CONSTRUCTION MAY REQUIRE DRYING PRIOR TO USE AS BACKFILL, AND THE CONTRACTOR MAY HAVE TO IMPORT MATERIALS, AT NO EXTRA COST, FROM OFFSITE TO MEET THE REQUIREMENTS FOR COMPACTION AND PROPER FILL.

DEMOLITION:

1. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS AND LICENSES FOR PERFORMING THE DEMOLITION WORK AND SHALL FURNISH A COPY OF SAME TO THE ENGINEER PRIOR TO COMMENCING THE WORK. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE PERMITS.
2. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES OR LOCAL AUTHORITIES FURNISHING GAS, WATER, ELECTRICAL, TELEPHONE, OR SEWER SERVICE SO THEY CAN REMOVE, RELOCATE, DISCONNECT, CAP OR PLUG THEIR EQUIPMENT IN ORDER TO FACILITATE DEMOLITION.
3. THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND OTHER IMPROVEMENTS SHOWN ON THESE PLANS AND UTILITIES AND OTHER IMPROVEMENTS NOT SHOWN. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR REPAIRS OF UTILITIES AND OTHER IMPROVEMENTS DAMAGED DURING CONSTRUCTION AND SHALL MAINTAIN SUFFICIENT PROTECTION FOR ALL UTILITIES REQUIRED TO PROTECT THEM FROM DAMAGE AND TO PROTECT THE PUBLIC DURING CONSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL TREES, STRUCTURES, AND UTILITIES NOT MARKED FOR REMOVAL OR DEMOLITION AND SHALL PROMPTLY REPAIR ANY DAMAGE AS DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER.
5. THE CONTRACTOR SHALL REMOVE PAVING MARKED FOR DEMOLITION WHICH INCLUDES ALL ASPHALT, CONCRETE, BASE, AND RETAINING WALLS (INCLUDING THE FOOTERS).
6. THE CONTRACTOR SHALL REMOVE TREES MARKED FOR REMOVAL WHICH INCLUDES THE ROOTS ASSOCIATED WITH THE TREE. TREES NOT MARKED FOR REMOVAL SHALL BE PROTECTED IN ACCORDANCE WITH THE WALTON COUNTY REGULATIONS.
7. THE CONTRACTOR SHALL REMOVE UNSALVAGEABLE MATERIALS AND YARD WASTE FROM THE SITE IMMEDIATELY AND DISPOSE OF IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
8. THE CONTRACTOR SHALL SAW-CUT A SMOOTH STRAIGHT EDGE ON ANY PAVEMENT PROPOSED FOR DEMOLITION PRIOR TO ITS REMOVAL. PRIOR TO CONNECTING PROPOSED PAVEMENT TO EXISTING PAVEMENT, THE CONTRACTOR SHALL ENSURE THAT THE EDGE OF THE EXISTING PAVEMENT IS STRAIGHT AND UNIFORM.

OTHER UTILITY INFORMATION:

1. THE CONTRACTOR SHALL PROTECT UTILITIES AND OTHER IMPROVEMENTS SHOWN ON THESE PLANS AND OTHER UTILITIES AND OTHER IMPROVEMENTS NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF UTILITIES AND OTHER IMPROVEMENTS DAMAGED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER, AT NO ADDITIONAL COST TO THE OWNER, AND SHALL MAINTAIN SUFFICIENT PROTECTION TO UTILITIES REQUIRED TO PROTECT THEM FROM DAMAGE AND TO PROTECT THE PUBLIC DURING CONSTRUCTION.
2. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES WHICH MAY HAVE THEIR UTILITIES WITHIN THE CONSTRUCTION AREAS TO LOCATE THEIR FACILITIES IN THE FIELD FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING CONSTRUCTION.
3. CHAPTER 553 - 851 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY GAS UTILITIES A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATING. THE DRAWINGS SHOW ONLY THE APPROXIMATE LOCATION OF GAS MAINS AND DO NOT SHOW SERVICE LINES.
4. LANDSCAPING SHALL NOT BE LOCATED WITHIN 3 FEET OF ANY FIRE HYDRANT AND/OR FIRE DEPARTMENT CONNECTION.
5. WATER FOR FIRE FIGHTING PURPOSES SHALL BE AVAILABLE PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.

EARTHWORK, GRADING, STABILIZATION, PAVING AND DRAINAGE:

1. COMPACT ALL UTILITY TRENCHES WITHIN ROADWAYS TO 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY (AASHTO T - 180) AND TO 95% WITHIN OTHER AREAS.
2. ALL ORGANIC SOILS BELOW UTILITY TRENCHES SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL AND COMPACTED TO NO LESS THAN 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY (AASHTO T - 180).
3. STABILIZED SUBGRADE TO BE F.D.O.T. TYPE "B".
4. ASPHALTIC CONCRETE TO FDOT STANDARD SPECIFICATION (LATEST EDITION) SECTION 916.1 AND WALTON COUNTY, WHICHEVER IS GREATER.
5. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
6. ALL CONCRETE FLUMES, WALKS, AND CURBS SHALL BE CONSTRUCTED WITH 3000 PSI CONCRETE.
7. ALL ON-SITE AREAS DISTURBED BY THE CONSTRUCTION SHALL BE STABILIZED WITH SOD (SAME AS SURROUNDING AREA OR BETTER) OR APPROVED EQUAL.
8. THE REINFORCED CONCRETE PIPE SHALL BE CLASS III WITH WALL THICKNESS "B" CONFORMING TO ASTM C - 76 OR AWWA 302 - 74 AND GASKETS SHALL BE IN ACCORDANCE WITH ASTM C - 443 OR ASTM D - 412.
9. ALL PIPE CALL OUTS ARE MEASURED CENTER LINE TO CENTER LINE FOR MANHOLES AND INLETS AND FROM THE END OF THE PIPE FOR MITERED END SECTIONS.
10. ALL DEWATERING COSTS ASSOCIATED WITH THE INSTALLATION AND CONSTRUCTION OF THE UNDERGROUND UTILITIES; STORM WATER PIPES AND MANHOLES; SANITARY SEWER MAINS, FORCE MAINS, MANHOLES, AND LIFT STATIONS; AND STORM WATER MANAGEMENT SYSTEMS SHALL BE INCLUDED AS PART OF THE CONSTRUCTION BID COSTS. THE CONTRACTOR SHALL SUBMIT FOR WATER USE PERMITS IF REQUIRED FOR DEWATERING ACTIVITIES.
11. ALL PIPES SHALL HAVE 3 FEET MINIMUM COVER UNLESS OTHERWISE SPECIFIED IN PLANS, CONTRACTOR SHALL TAKE CARE TO PROVIDE PROPER GRADE ELEVATIONS AND ALIGNMENTS.
12. PLANS AND SPECIFICATIONS REQUIRE THAT COMPACTED BACKFILL BE PLACED ALONG SIDE OF AND OVER ALL UTILITIES. THE ENGINEER MAY REQUIRE THAT COMPACTION TESTS BE TAKEN TO VERIFY BACKFILL COMPACTION. THE COST OF SUCH COMPACTION TESTS WILL BE BORNE BY THE CONTRACTOR.
13. THE CONTRACTOR SHALL SAW-CUT A SMOOTH STRAIGHT EDGE ON ANY PAVEMENT PROPOSED FOR DEMOLITION PRIOR TO ITS REMOVAL. PRIOR TO CONNECTING PROPOSED PAVEMENT TO EXISTING PAVEMENT, THE CONTRACTOR SHALL ENSURE THAT THE EDGE OF THE EXISTING PAVEMENT IS STRAIGHT AND UNIFORM.
14. THE CONTRACTOR MUST INSTALL AND MAINTAIN GRASS OR SOD ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETED FINAL GRADES, AS NOTED ON PLANS, AND AT ANY OTHER TIME AS NECESSARY TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES TO ANY DOWNSTREAM WATER BODY, WETLAND, OR OFF-SITE PROPERTY. SODDING ON SLOPES 3:1 AND STEEPER SHALL BE STAKED.
15. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO CONTROL TURBIDITY AND SEDIMENT INCLUDING, BUT NOT LIMITED TO, THE INSTALLATION OF TURBIDITY BARRIERS AND SILT FENCES AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY AND SEDIMENT BARRIERS MUST BE MAINTAINED AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFFSITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTERS 62-302 AND 62-4, FLORIDA ADMINISTRATIVE CODE.

EROSION CONTROL NOTES:

1. TEMPORARY STABILIZATION IS REQUIRED OF ALL SOIL LEFT BARE FOR GREATER THAN 14 DAYS.
2. PERMANENT SOIL STABILIZATION REQUIRED. SEE LANDSCAPE PLANS FOR SOD AND PROTECTION LOCATIONS.
3. REQUIRED INSPECTIONS BY CONTRACTOR DURING CONSTRUCTION:
    a. ONCE EACH WEEK OR WITHIN 24 HRS OF A STORM EVENT (GREATER THAN 1/2 IN.) INSPECT ALL CONTROL MEASURES.
    b. REPAIR ALL DAMAGED AREAS WITHIN 24 HRS OF DISCOVERY.
    c. REMOVE ANY BUILT-UP SEDIMENT AROUND FENCES THAT REACHES 1/3 OF THE SILT FENCE HEIGHT.
    d. SILT FENCES SHOULD BE INSPECTED FOR DEPTH OF SEDIMENT AND TEARS TO INSURE FABRIC HAS NOT PULLED AWAY FROM POSTS.
    e. INSPECT ALL TEMPORARY AND PERMANENT SOIL STABILIZATION FOR WASHOUTS OR BARE SPOTS.
    f. INSPECTION REPORTS MUST BE AVAILABLE FOR INSPECTION AT ALL TIMES. THE SITE SUPERINTENDENT SHALL CONDUCT ALL INSPECTIONS AND MAINTAIN REPORTS.
    g. DATES OF ALL MAJOR GRADING ACTIVITIES MUST BE RECORDED AND MAINTAINED WITH SITE INSPECTIONS WHEN MAJOR GRADING HAS CEASED IN ANY AREA, THE DATE MUST ALSO BE RECORDED.
5. GOOD HOUSEKEEPING: THE SITE SHOULD BE KEPT IN AN ORDERLY FASHION, THE CONTRACTOR SHALL INSURE THE FOLLOWING ITEMS ARE ADDRESSED.
6. AN EFFORT TO STORE ONLY WHAT IS NEEDED ON THE SITE.
7. KEEP ALL STORED MATERIALS IN A NEAT AND ORDERLY FASHION IN THE ORIGINAL CONTAINERS WHEN POSSIBLE.
8. FOLLOW ALL MANUFACTURERS RECOMMENDED PROCEDURES FOR DISPOSAL OF WASTE MATERIAL.
9. INSPECT DAILY TO INSURE WASTE MATERIAL IS DISPOSED OF PROPERLY.

SPILL CONTROL NOTES:

1. IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS NOTES OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:
    a. MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
    b. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
    c. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF SIZE.
    d. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
    e. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.

STORM DRAINAGE CONSTRUCTION NOTES:

1. STORM DRAINAGE PIPES SHALL BE A MINIMUM OF FIFTEEN (15) INCH DIAMETER (15" FOR SHORT LATERAL RUNS ONLY - UP TO 75 FEET; ALL OTHERS, 18" MINIMUM.) OR EQUIVALENT AND BE DESIGNED IN ACCORDANCE WITH THE LAND DEVELOPMENT CODE.
2. ALL PIPE TERMINUS SHALL BE MITERED END SECTIONS UNLESS A HEADWALL IS APPROVED FOR RESTRICTED LOCATIONS.
3. UNLESS OTHERWISE NOTED, ALL STRUCTURES SHALL MEET FDOT STANDARDS.
4. STORM INLETS, MANHOLES, AND CATCH BASINS SHALL BE EITHER POURED IN PLACE OR PRE-CAST REINFORCED CONCRETE. STRUCTURES SHALL BE REQUIRED AT EACH CHANGE OF PIPE SIZE, CHANGE IN PIPE DIRECTION, OR PIPE MATERIAL.
5. STORM INLETS SHALL BE SPACED IN SUCH A MANNER AS TO ACCEPT ONE HUNDRED (100) PERCENT OF THE DESIGN STORM RUNOFF.
6. MAXIMUM DISTANCES BETWEEN INLETS AND/OR MANHOLES:

PIPE SIZE	LENGTH RUN
(INCHES)	(FEET)
15	75* (SEE NOTE 2 ABOVE)
18	150
24	250
30	300
36	300
42	400
54 (OR GREATER)	500

7. ALL SWALES, DITCHES MAXIMUM SIDE AND BACK SLOPES MUST NOT BE STEEPER THAN 3 TO 1, UNLESS OTHERWISE SPECIFIED ON THE PLAN SHEETS AND SUFFICIENT STABILIZATION IS PROVIDED.
8. NORMAL ROADSIDE SWALES SHALL BE CONSTRUCTED TO A MAXIMUM DEPTH OF 18" BELOW THE OUTSIDE EDGE OF PAVEMENT OR CONCRETE CURB.
9. CONCRETE EROSION CONTROL MUST BE PROVIDED WHERE SWALES OR CULVERTS INTERCEPT DRAINAGE DITCHES.
10. LIMEROCK, RECYCLED CONCRETE, OR FULL DEPTH ASPHALT PAVEMENT MAY BE USED IN PLACE OF SOIL CEMENT BASES. ALL BASES AND ROADWAY DESIGNS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER OF RECORD AND THE WALTON COUNTY.
11. SOIL CEMENT BASE MATERIAL CONSTRUCTION SHALL BE CONTINUOUSLY SUPERVISED BY A SOILS TESTING LAB AT THE DEVELOPER'S EXPENSE.
12. CURE COATING OF SOIL CEMENT BASE SHALL BE REMOVED BY HARD PLANING PRIOR TO INSTALLATION OF DRIVING SURFACE.
13. SOIL CEMENT PAVEMENT BASES WITH THE CURE COAT APPLIED SHALL BE ALLOWED TO CURE A MINIMUM OF SEVEN (7) DAYS UNDER NO TRAFFIC CONDITIONS PRIOR TO PLACING ANY ASPHALT SURFACE. (TEST REPORT REQUIRED PRIOR TO TRAFFIC USAGE)
14. DESIGN MIXES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL NO LESS THAN THREE (3) WORKING DAYS PRIOR TO ANY ROADWAY CONSTRUCTION.
15. EXTRACTION AND GRADATION TESTS ON ASPHALT MIXES SHALL BE PROVIDED TO THE ENGINEER TO ENSURE THAT DESIGN MIXES MEET THE SPECIFICATIONS.
16. THE ROADWAY CROWN SHALL HAVE A STANDARD ONE QUARTER INCH (1/4") PER FOOT SLOPE.
17. ALL ROADWAYS WITH CURB AND GUTTER SECTIONS SHALL HAVE AS A STANDARD A MINIMUM LONGITUDINAL SLOPE OF 0.30%.
18. THE FINISHED PAVEMENT EDGE MAY BE WITHIN ONE QUARTER INCH (1/4") ABOVE THE ADJACENT CONCRETE CURB, BUT NEVER LOWER THAN THE CURB LINE.
19. CONCRETE CURBS SHALL BE SAW CUT 1/4" AT INTERVALS OF TEN FEET (10') WITH EXPANSION JOINTS AT STREET INTERSECTIONS, STRUCTURES, AND ALONG CURVES AT SIXTY FEET (60') INTERVALS. ALL EXPANSION JOINT MATERIAL IS REQUIRED TO BE INSTALLED THROUGH THE ENTIRE DEPTH OF THE CONCRETE CURB.

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NOT FOR CONSTRUCTION

Tim A. Vanderwalker, P.E.
P.E. No. 74415, FL

201 East Pine Street, Suite 1000
Orlando, Florida 32801
Engineering Business No. 2429

DATE ____

MARK	DATE	DESCRIPTION	BY

WALTON COUNTY

WOODWARD, 30A SOUTH
PARKING IMPROVEMENTS

GENERAL NOTES

Project No.: 200-11616-15004
Designed By: TAV
Drawn By: HCR
Checked By:

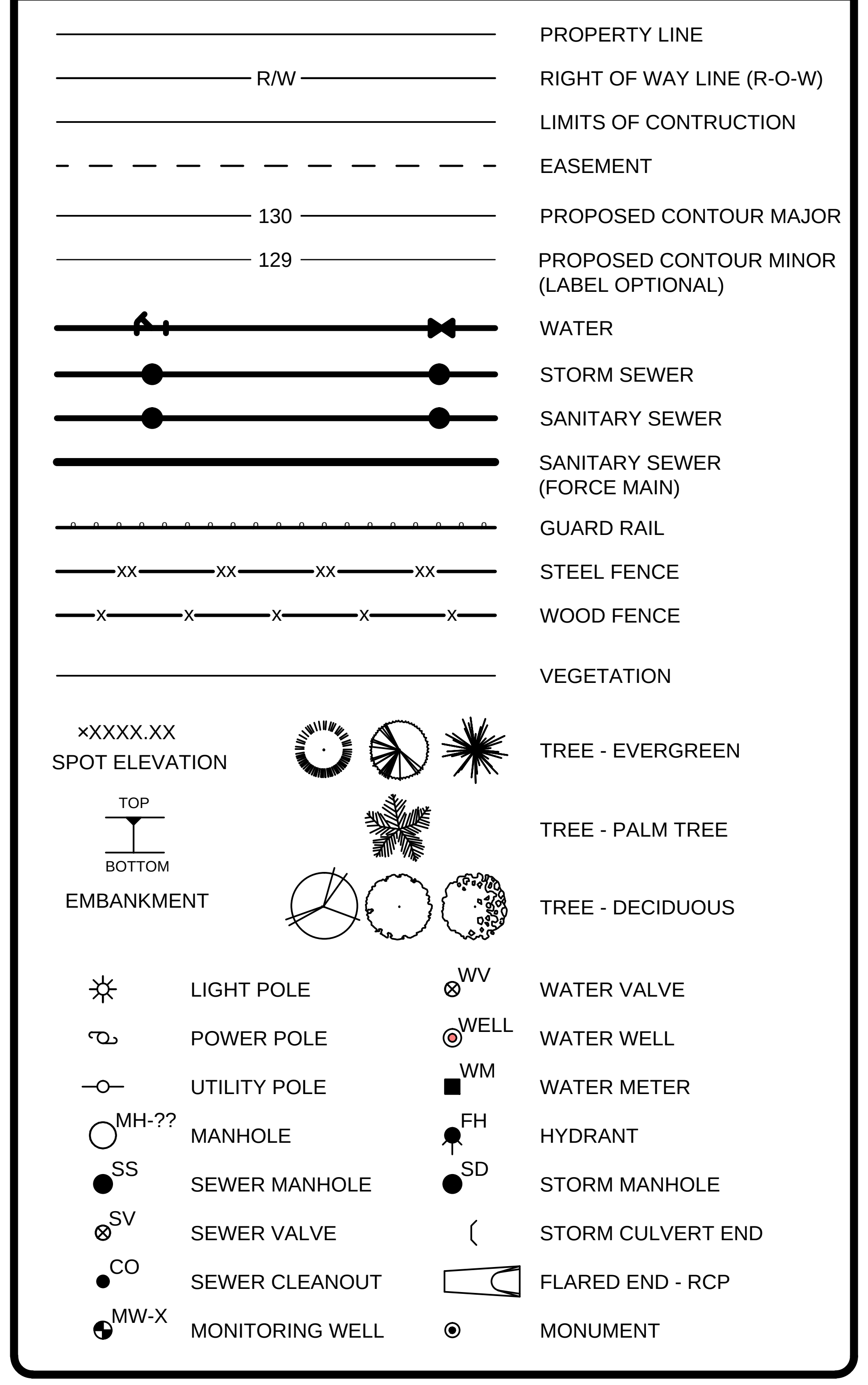
G-001
Sheet

Bar Measures 1 inch

LIST OF STANDARD ABBREVIATIONS

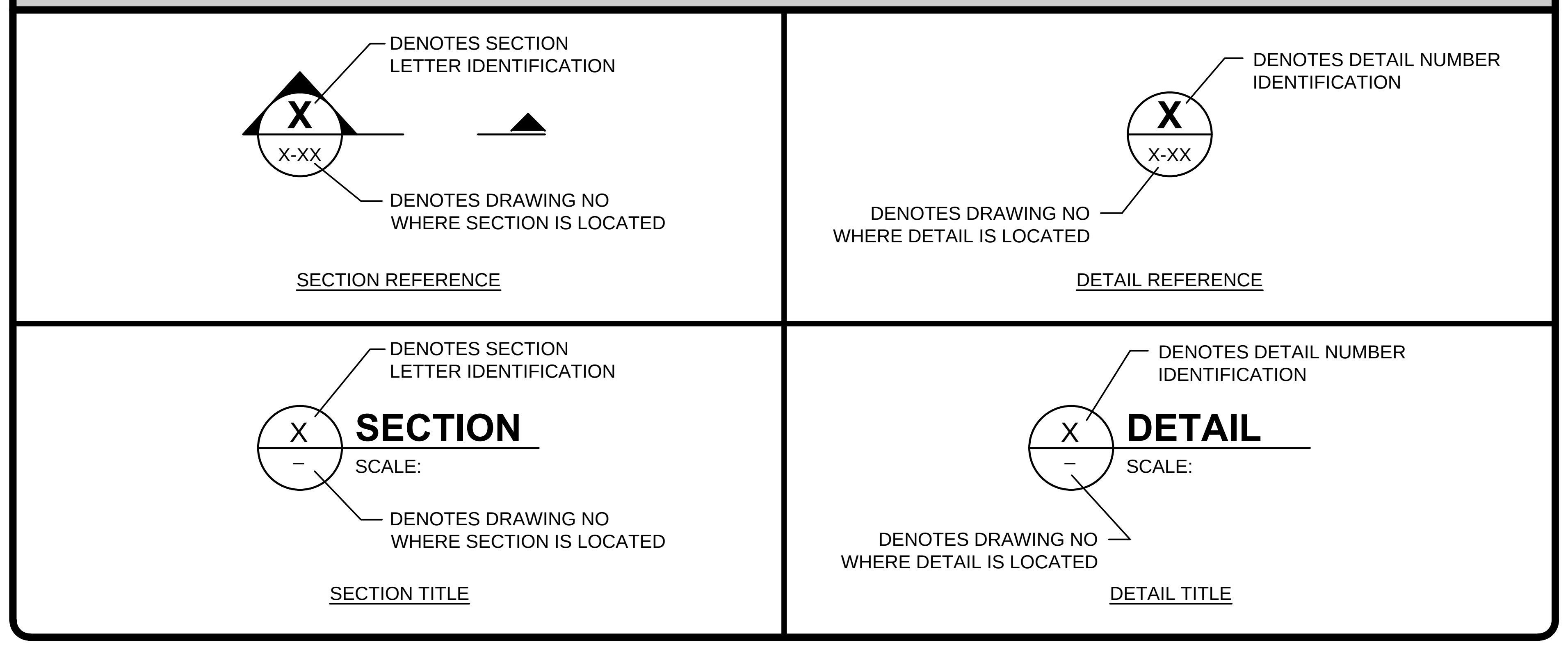
A	
AAP	ALARM ANNUNCIATOR PANEL
AARV	AUTOMATIC AIR RELEASE VALVE
AAV	AUTOMATIC AIR VENT
AB	ANCHOR BOLT
ABAN	ABANDON(ED)
ABRSV	ABRASIVE
ABS	ACRYLONITRILE BUTADIENE STYRENE
ABV	ABOVE
AC	ALTERNATING CURRENT
ACCMP	ASPHALT-COATED CORRUGATED METAL PIPE
ACP	ASBESTOS CEMENT PIPE
ADDM	ADDENDUM
ADH	ADHESIVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
AHD	AHEAD
AL	ALUMINUM
ALT	ALTERNATE
AMP	AMPERE
AMT	AMOUNT
APRX	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL)
AS	ALUM SOLUTION
ASPH	ASPHALT
ASSY	ASSEMBLY
AVE	AVENUE
A/C	AIR CONDITIONING
A/VV	AIR/VACUUM AIR VALVE
B	
BAF	BAFFLE
BCV	BALL CHECK VALVE
BF	BLIND FLANGE
BFV	BUTTERFLY VALVE
BHP	BRAKE HORSEPOWER
BI	BLACK IRON
BITUM	BITUMINOUS OR BITUMASTIC
B/L	BASELINE
BLDG	BUILDING
BLK	BLOCK
BM	BENCH MARK
BOC	BACK OF CURB
BOT	BOTTOM
BP	BASE PLATE
BRG	BEARING
BSP	BLACK STEEL PIPE
BV	BALL VALVE
BW	BOTH WAYS
BWW	BACKWASH WATER
C	
CAP	CAPACITY
CA	COMPRESSED AIR
CAV	COMBINATION AIR VALVE
CB	CATCH BASIN
CCC	CHLORINE CONTACT CHAMBER
CE	CHLORINATED EFFLUENT
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CV	CHECK VALVE
CI	CAST IRON
CIP	CAST IRON PIPE
CISP	CAST IRON SOIL PIPE
CJ	CONSTRUCTION JOINT
CKT	CIRCUIT
C/L	CENTER LINE
CL2	CHLORINE GAS
CLF	CHAIN LINK FENCE
CLR	CLEAR OR CLEARANCE
CLVT	CULVERT
CMP	CORRUGATED METAL PIPE
CMPA	CORRUGATED METAL PIPE ARCH
CMU	CONCRETE MASONRY UNIT
CND	CONDUIT
CNR	CORNER
CO	CLEAN OUT
CO2	CARBON DIOXIDE
COAG	COAGULANT
COL	COLUMN
COM	COMMON
CONC	CONCRETE
CONN	CONNECTION
CONSTR	CONSTRUCT(ION)
CONT	CONTINUOUS
CONTR	CONTRACT(OR)
COORD	COORDINATE
CO	COMPANY
CP	CONCRETE PIPE
CPA	CONCRETE PIPE ARCH
CPLG	COUPLING
CPVC	CHLORINATED POLYVINYL CHLORIDE
CR	CONCENTRIC REDUCER
CS	CHLORINE SOLUTION
CSG	CASING
CTV	CABLE TELEVISION
CY	CUBIC YARD
CYL	CYLINDER
C&G	CURB AND GUTTER
C/C	CENTER TO CENTER
D	
DAT	DATUM
DBL	DOUBLE
DC	DIRECT CURRENT
DEMO	DEMOLITION
DEPT	DEPARTMENT
DESC	DESCRIPTION
DET	DETAIL
DF	DIESEL FUEL
DI	DUCTILE IRON
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DISCH	DISCHARGE
DIR	DIRECTION
DMH	DROP MANHOLE
DN	DOWN
DR	DRAIN
DV	DIAPHRAGM VALVE
DW	DRIVEWAY
DWG	DRAWING
DWV	DRAIN, WASTE, AND VENT
E	
E	EAST
EA	EACH
ECC	ECCENTRIC
EF	EACH FACE
EFF	EFFLUENT
E/L	EASEMENT LINE
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRICAL
EMER	EMERGENCY
EMC	ENCASE(MENT)
ENGR	ENGINEER
EP	EDGE OF PAVEMENT
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EPRF	EXPLOSION PROOF
EQUIP	EQUIPMENT
ER	ECCENTRIC REDUCER
ESTM	EASEMENT
EST	ESTIMATE(D)
EW	EACH WAY
EXC	EXCAVATE
EXP	EXPANSION
EXST	EXISTING
EXST GR	EXISTING GRADE
EXT	EXTERIOR
EXTN	EXTENSION
F	
FAB	FABRICATE(D)
FCA	FLANGED COUPLING ADAPTER
FB	FLAT BAR
FCV	FLOW-CONTROL VALVE
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FILTER(ED) EFFLUENT
FHY	FIRE HYDRANT
FIG	FIGURE
FIN	FINISH(ED)
FIN FLR	FINISH FLOOR
FIN GR	FINISH GRADE
FL	FLUORIDE
FLG	FLANGE(D)
FLL	FLOW LINE
FLTR	FILTER
FM	FORCE MAIN
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FOOT OR FEET
FUT	FUTURE
FV	FOOT VALVE
FW	FINISHED WATER
FWP	FACTORY WIRED PANEL
F/F	FACE TO FACE
G	
GA	GAUGE
GAL	GALLON(S)
GALV	GALVANIZED
GIP	GALVANIZED IRON PIPE
GJ	GROOVE JOINT
GND	GROUND
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPS	GALLONS PER SECOND
GR	GRADE
GRTG	GRATING
GS	GALVANIZED STEEL
GSP	GALVANIZED STEEL PIPE
GSR	GROUND STORAGE RESERVOIR
GST	GROUND STORAGE TANK
GT	GROUT
GV	GATE VALVE
H	
HB	HOSE BIBB
HD	HEAVY-DUTY
HDPE	HIGH-DENSITY POLYETHYLENE
HDR	HYDRAULIC
HFA	HYDROFLUOSILICIC ACID
HGR	HANGER
HGT	HEIGHT
HNDRL	HAND RAIL
HOA	HAND-OFF-AUTO
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPA	HIGH PRESSURE AIR
HR	HOUR
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
HWL	HIGH WATER LEVEL
HWY	HIGHWAY
HZ	HERTZ
I	
ID	INSIDE DIAMETER
IN	INCH(ES)
INF	INFLUENT
INT	INTERSECTION
INTR	INTERIOR
INV	INVERT
IP	IRON PIPE
IPS	INTERNATIONAL PIPE STANDARD
IR	INTERNAL RECYCLE
IW	IRRIGATION WATER
J	
JB	JUNCTION BOX
JT	JOINT
K	
K	KIP (1,000 LB)
KPL	KICK PLATE
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT-HOUR
L	
L	LEFT
LAB	LABORATORY
LAM	LAMINATE OR LAMINATION
LATL	LATERAL
LAV	LAVATORY
LEN	LENGTH
LB	POUND(S)
LF	LINEAR FEET
LP	LIGHT POLE
LS	LIME SLURRY
LSS	LIME STABILIZED SLUDGE
LVR	LOUVER
LWL	LOW WATER LEVEL
M	
M	METER
MAINT	MAINTAIN OR MAINTENANCE
MAN	MANUAL(LY)
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
ME	MITERED END
MECH	MECHANICAL
MEG	MATCH EXISTING GRADE
MFR	MANUFACTURE(R)
MG	MILLION GALLONS
MGD	MILLION GALLONS PER DAY
MH	MANHOLE
MI	MILE(S)
MIN	MINIMUM, MINUTE(S)
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
ML	MIXED LIQUOR
MO	MASONRY OPENING
MON	MONUMENT
MPH	MILES PER HOUR
MPT	MALE PIPE THREAD
MS	MOTOR STARTER
MSP	MOTOR STARTER PANEL
MTD	MOUNTED
MV	MOTORIZED VALVE
MW	MANWAY
MWL	MEAN WATER LEVEL
MWP	MAXIMUM WORKING PRESSURE
N	
N	NORTH
NaOCl	SODIUM HYPOCHLORITE
NE	NORTHEAST
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NPF	NATIONAL PIPE THREAD
NPT	NATIONAL PIPE TAPER (THREAD)
NPW	NON-POTABLE WATER
NRS	NON-RISING SYSTEM
NTS	NOT TO SCALE
NW	NORTHWEST
N/A	NOT APPLICABLE
O	
O2	OXYGEN
OC	ON CENTER
OD	OUTSIDE DIAMETER
ODP	OPEN DRIP PROOF
OF	OUTSIDE FACE
OH	OVER HEAD
OHW	OVER HEAD WIRE
OPP	OPPOSITE
OPT	OPTIONAL
OR	OFFICIAL RECORDS
OSY	OUTSIDE SCREW AND YOKE
O&M	OPERATION AND MAINTENANCE
P	
PA	PROCESS AIR
PC	POINT OF CURVE
PCM	PERMANENT CONTROL MONUMENT
PE	PLAIN END
PG	PRESSURE GAGE
PI	POINT OF INTERSECTION
PL	PLATE
P/L	PROPERTY LINE
PNV	PINCH VALVE
POB	POINT OF BEGINNING
POJ	PUSH-ON JOINT
POL	POLYMER
PP	POWER POLE
PPD	POUNDS PER DAY
PPM	PARTS PER MILLION
PREFAB	PREFABRICATED
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PRW	PROCESS WATER
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAGE
PT	POINT OF TANGENCY
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PW	POTABLE WATER
PWR	POWER
Q	
Q	FLOW
QTY	QUANTITY
R	
RAD	RADIUS
RAS	RETURN ACTIVATED SLUDGE
RC	REINFORCED CONCRETE
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
RD	ROAD
RDCR	REDUCER
REBAR	REINFORCING STEEL
REF	REFERENCE
REINF	REINFORCE(D)(ING)(MENT)
REM	REMOVE(ABLE)
REQ'D	REQUIRED
RF	RAISED FACE
RJ	RESTRAINED JOINT
RM	ROOM
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RR	RAILROAD
RT	RIGHT
RVT	RIVETED
RW	RAW WATER
RWW	RAW WASTEWATER
R/W	RIGHT-OF-WAY
S	
S	SOUTH
SA	SAMPLE LINE
SAN	SANITARY
SCHED	SCHEDULE
SD	STORM DRAIN
SE	SOUTHEAST
SECT	SECTION
SEFF	SECONDARY EFFLUENT
SF	SQUARE FOOT OR FEET
SHT	SHEET(ED)(ING)
SIG	SIGNAL
SIM	SIMILAR
SL	SLUDGE
SLV	SLEEVE
SM	SHEET METAL
SOLN	SOLUTION
SP	SOIL PIPE, SPACE(ING)
SPEC	SPECIFICATION
SPRT	SUPPORT
SQ	SQUARE
SS	SANITARY SEWER
SSE	SUBSTANDARD EFFLUENT
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STD	STANDARD
STK	STAKE
STL	STEEL
STR	STRAIGHT
STRUCT	STRUCTURAL
SURF	SURFACE
SV	SOLENOID VALVE
SVCE	SERVICE
SVW	SERVICE WATER
SW	SOUTHWEST
SWD	SIDEWATER DEPTH
SWSH	SURFACE WASH
SYM	SYMBOL
SYMM	SYMMETRICAL
S/W	SIDEWALK
T	
TAN	TANGENT
TB	TOP OF BEAM
TBM	TEMPORARY BENCH MARK
TB-xx	TEST BORING-xx (e.g. TB-1)
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TE	TOTALLY ENCLOSED
TEFC	TOTALLY ENCLOSED FAN COOLED
TEL	TELEPHONE
TENV	TOTALLY ENCLOSED NON-VENTILATED
THD	THREAD(ED)
THK	THICK(NESS)
TLM	TELEMETRY
TOB	TOP OF BANK
TOC	TOP OF CURB
TOS	TOE OF SLOPE
TOT	TOTAL
TP	TELEPHONE POLE
TS	THICKENED SLUDGE
TV	TELEVISION
TYP	TYPICAL
T&B	TOP AND BOTTOM
U	
UD	UNDERDRAIN
UG	UNDERGROUND
ULT	ULTIMATE
UN	UNION
UON	UNLESS OTHERWISE NOTED
UGE	UNDERGROUND ELECTRIC
UTC	UNDERGROUND TELEPHONE CABLE
UTIL	UTILITY
V	
V	VOLT(S)
VAC	VACUUM
VAR	VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
W	
W	WATT, WEST
WAS	WASTE ACTIVATED SLUDGE
WCO	WALL CLEAN OUT
WF	WIDE FLANGE
WH	WALL HYDRANT
WL	WATER LINE
WM	WATER MAIN
WP	WATER PROOF(ING), WORKING POINT
WPR	WORKING PRESSURE
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
WT	WEIGHT
WTP	WATER TREATMENT PLANT
WW	WASH WATER
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
WWTP	WASTEWATER TREATMENT PLANT
W/	WITH
W/O	WITHOUT
X	
XFER	TRANSFER
Y	
YD	YARD(S)
YH	YARD HYDRANT
YR	YEAR(S) YR

CIVIL LEGEND

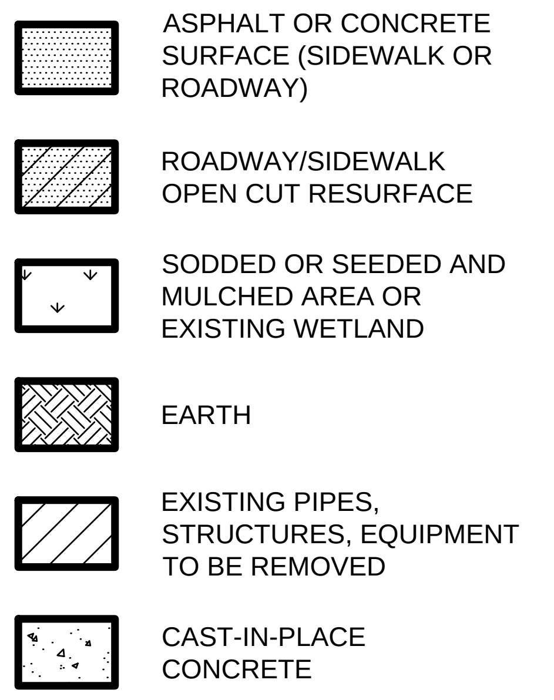


- PROPERTY LINE
- RIGHT OF WAY LINE (R-O-W)
- LIMITS OF CONTRUCTION
- EASEMENT
- PROPOSED CONTOUR MAJOR
- PROPOSED CONTOUR MINOR (LABEL OPTIONAL)
- WATER
- STORM SEWER
- SANITARY SEWER
- SANITARY SEWER (FORCE MAIN)
- GUARD RAIL
- STEEL FENCE
- WOOD FENCE
- VEGETATION
- TREE - EVERGREEN
- TREE - PALM TREE
- TREE - DECIDUOUS
- LIGHT POLE
- POWER POLE
- UTILITY POLE
- MANHOLE
- SEWER MANHOLE
- SEWER VALVE
- SEWER CLEANOUT
- MONITORING WELL
- WATER VALVE
- WATER WELL
- WATER METER
- HYDRANT
- STORM MANHOLE
- STORM CULVERT END
- FLARED END - RCP
- MONUMENT

REFERENCE SYMBOLS

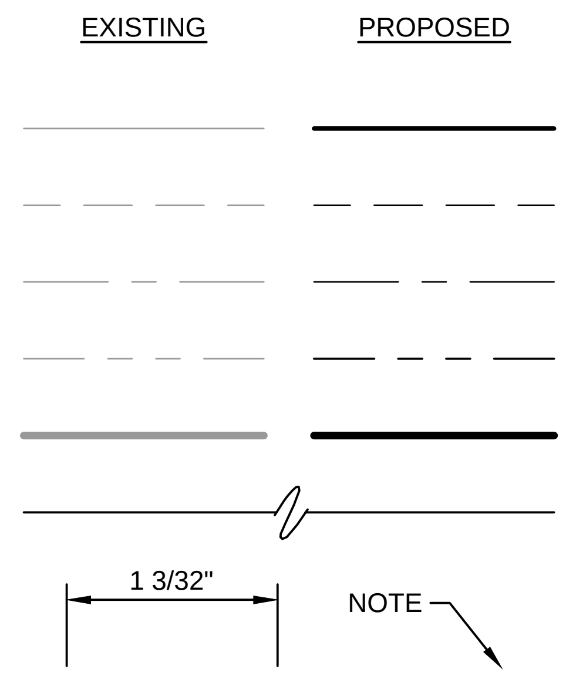

DENOTES SECTION LETTER IDENTIFICATION
X
X-XX
DENOTES DRAWING NO WHERE SECTION IS LOCATED
SECTION REFERENCE
DENOTES DETAIL NUMBER IDENTIFICATION
X
X-XX
DENOTES DRAWING NO WHERE DETAIL IS LOCATED
DETAIL REFERENCE
DENOTES SECTION LETTER IDENTIFICATION
X
–
SECTION
SCALE:
DENOTES DRAWING NO WHERE SECTION IS LOCATED
SECTION TITLE
DENOTES DETAIL NUMBER IDENTIFICATION
X
–
DETAIL
SCALE:
DENOTES DRAWING NO WHERE DETAIL IS LOCATED
DETAIL TITLE

HATCHING LEGEND



- ASPHALT OR CONCRETE SURFACE (SIDEWALK OR ROADWAY)
- ROADWAY/SIDEWALK OPEN CUT RESURFACE
- SODDED OR SEEDED AND MULCHED AREA OR EXISTING WETLAND
- EARTH
- EXISTING PIPES, STRUCTURES, EQUIPMENT TO BE REMOVED
- CAST-IN-PLACE CONCRETE
- PRECAST CONCRETE
- GROUT
- CONCRETE UNIT MASONRY (PLAN)
- STEEL
- ALUMINUM
- GRATING

MECHANICAL/DRAFTING LEGEND



- VISIBLE LINE
- HIDDEN LINE
- CENTER LINE
- PHANTOM LINE
- MATCHLINE
- BREAK LINE
- DIMENSION LINES AND LEADERS

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201 EAST PINE STREET, SUITE 1000
ORLANDO, FLORIDA 32801
TEL: (407) 839-3955 FAX: (407) 839-3790

NOT FOR CONSTRUCTION

Tim A. Vanderwalker, P.E.
P.E. No. 74415, FL
201 East Pine Street, Suite 1000
Orlando, Florida 32801
Engineering Business No. 2429

DATE

MARK	DATE	DESCRIPTION	BY

WALTON COUNTY
WOODWARD, 30A SOUTH
PARKING IMPROVEMENTS
LEGEND AND
ABBREVIATIONS

Project No.:	200-11616-15004
Designed By:	TAV
Drawn By:	HCR
Checked By:	

G-002
Sheet

Bar Measures 1 inch

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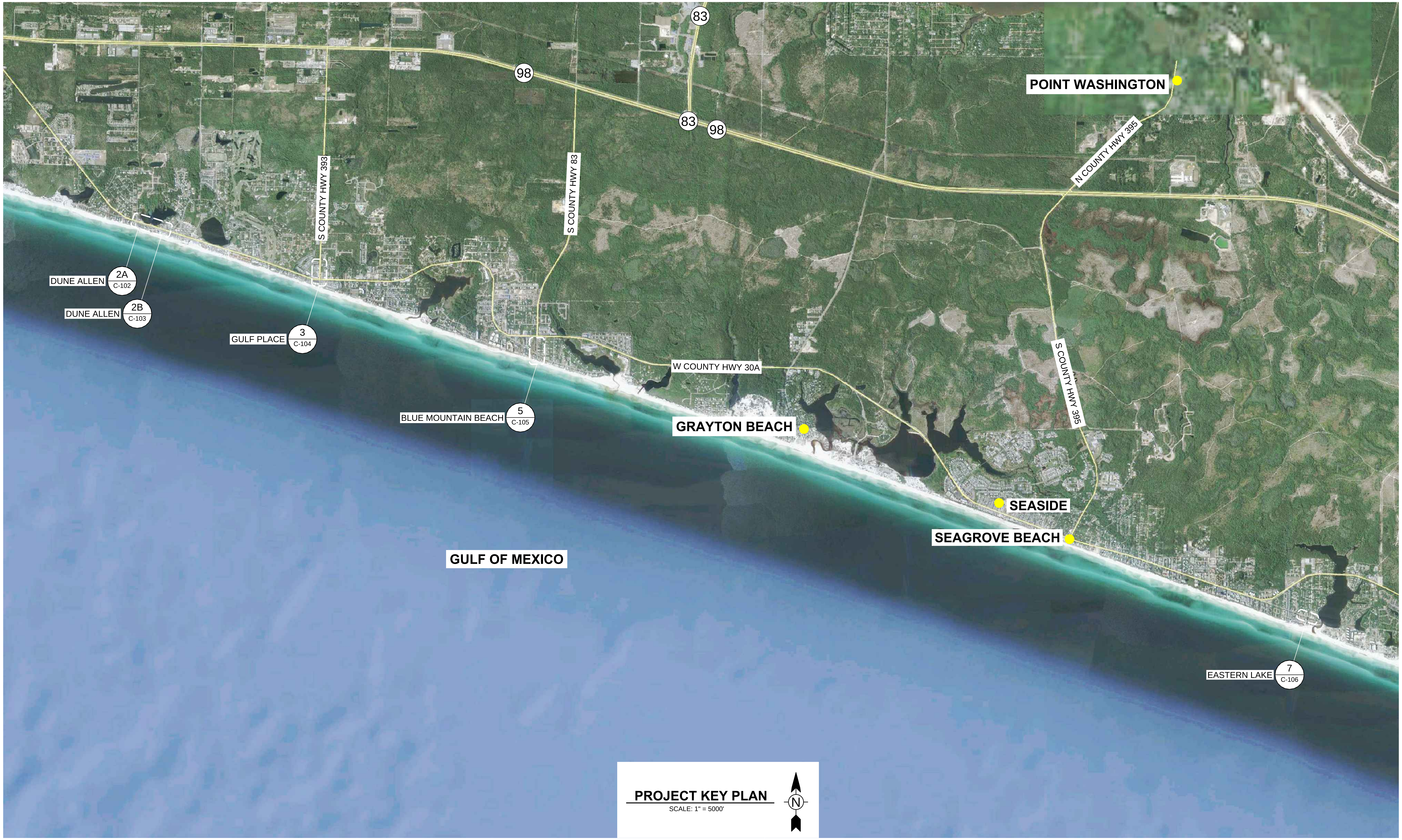
83
98
83
98
POINT WASHINGTON
S COUNTY HWY 393
S COUNTY HWY 83
N COUNTY HWY 395
S COUNTY HWY 395
W COUNTY HWY 30A
DUNE ALLEN 2A C-102
DUNE ALLEN 2B C-103
GULF PLACE 3 C-104
BLUE MOUNTAIN BEACH 5 C-105
GRAYTON BEACH
SEASIDE
SEAGROVE BEACH
EASTERN LAKE 7 C-106
GULF OF MEXICO
N

PROJECT KEY PLAN

SCALE: 1" = 5000'

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DATE ______

MARK	DATE	DESCRIPTION	BY

WALTON COUNTY

WOODWARD, 30A SOUTH
PARKING IMPROVEMENTS

PROJECT KEY PLAN

Project No.:	200-11616-15004
Designed By:	TAV
Drawn By:	HCR
Checked By:	

C-101
Sheet

Bar Measures 1 inch

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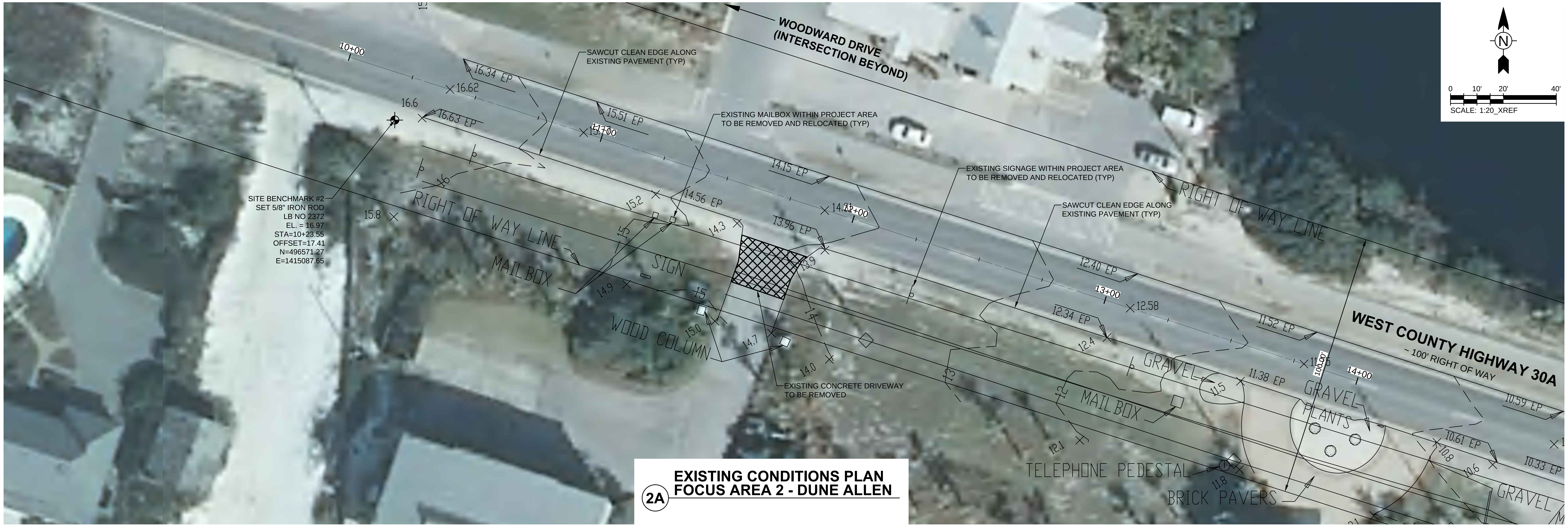
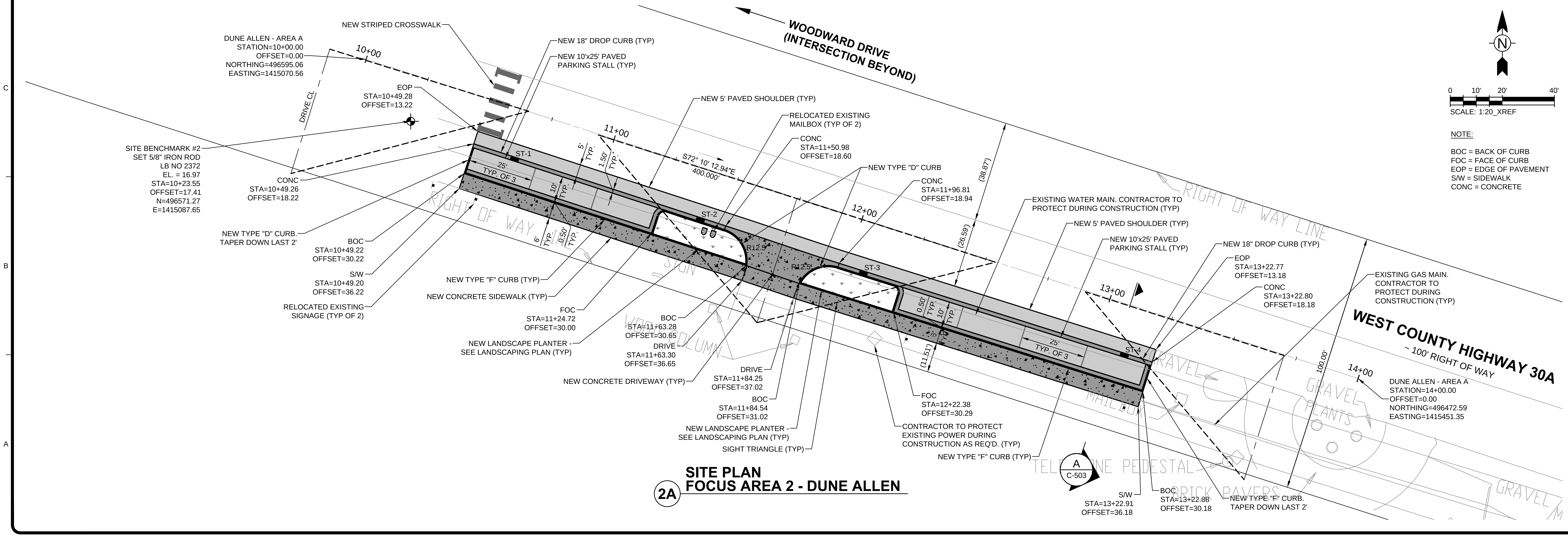

WOODWARD DRIVE (INTERSECTION BEYOND)
SAWCUT CLEAN EDGE ALONG EXISTING PAVEMENT (TYP)
EXISTING MAILBOX WITHIN PROJECT AREA TO BE REMOVED AND RELOCATED (TYP)
EXISTING SIGNAGE WITHIN PROJECT AREA TO BE REMOVED AND RELOCATED (TYP)
SAWCUT CLEAN EDGE ALONG EXISTING PAVEMENT (TYP)
EXISTING CONCRETE DRIVEWAY TO BE REMOVED
SITE BENCHMARK #2
SET 5/8" IRON ROD
LB NO 2372
EL. = 16.97
STA=10+23.55
OFFSET=17.41
N=496571.27
E=1415087.65
10+00
11+00
12+00
13+00
14+00
16.34 EP
16.62
16.6
16.63 EP
15.51 EP
14.15 EP
14.56 EP
14.21
13.96 EP
12.40 EP
12.58
12.34 EP
11.52 EP
11.38 EP
10.59 EP
10.61 EP
10.33 EP
RIGHT OF WAY LINE
MAILBOX
SIGN
WOOD COLUMN
GRAVEL
PLANTS
TELEPHONE PEDESTAL
BRICK PAVERS
100.00'
WEST COUNTY HIGHWAY 30A
~ 100' RIGHT OF WAY
N
0 10' 20' 40'
SCALE: 1:20_XREF

EXISTING CONDITIONS PLAN
2A FOCUS AREA 2 - DUNE ALLEN


WOODWARD DRIVE (INTERSECTION BEYOND)
NEW STRIPED CROSSWALK
DUNE ALLEN - AREA A
STATION=10+00.00
OFFSET=0.00
NORTHING=496595.06
EASTING=1415070.56
DRIVE CL
EOP
STA=10+49.28
OFFSET=13.22
SITE BENCHMARK #2
SET 5/8" IRON ROD
LB NO 2372
EL. = 16.97
STA=10+23.55
OFFSET=17.41
N=496571.27
E=1415087.65
CONC
STA=10+49.26
OFFSET=18.22
NEW TYPE "D" CURB. TAPER DOWN LAST 2'
BOC
STA=10+49.22
OFFSET=30.22
S/W
STA=10+49.20
OFFSET=36.22
RELOCATED EXISTING SIGNAGE (TYP OF 2)
NEW 18" DROP CURB (TYP)
NEW 10'x25' PAVED PARKING STALL (TYP)
NEW 5' PAVED SHOULDER (TYP)
RELOCATED EXISTING MAILBOX (TYP OF 2)
CONC
STA=11+50.98
OFFSET=18.60
NEW TYPE "D" CURB
CONC
STA=11+96.81
OFFSET=18.94
S72° 10' 12.94"E
400.000'
ST-1
ST-2
ST-3
ST-4
25'
TYP. OF 3
5' TYP.
1.50' TYP.
10' TYP.
6' TYP.
0.50' TYP.
R12.5'
(38.87')
(26.59')
(11.51')
NEW TYPE "F" CURB (TYP)
NEW CONCRETE SIDEWALK (TYP)
FOC
STA=11+24.72
OFFSET=30.00
NEW LANDSCAPE PLANTER - SEE LANDSCAPING PLAN (TYP)
BOC
STA=11+63.28
OFFSET=30.65
DRIVE
STA=11+63.30
OFFSET=36.65
NEW CONCRETE DRIVEWAY (TYP)
DRIVE
STA=11+84.25
OFFSET=37.02
BOC
STA=11+84.54
OFFSET=31.02
NEW LANDSCAPE PLANTER - SEE LANDSCAPING PLAN (TYP)
SIGHT TRIANGLE (TYP)
FOC
STA=12+22.38
OFFSET=30.29
CONTRACTOR TO PROTECT EXISTING POWER DURING CONSTRUCTION AS REQ'D. (TYP)
NEW TYPE "F" CURB (TYP)
EXISTING WATER MAIN. CONTRACTOR TO PROTECT DURING CONSTRUCTION (TYP)
NEW 5' PAVED SHOULDER (TYP)
NEW 10'x25' PAVED PARKING STALL (TYP)
NEW 18" DROP CURB (TYP)
EOP
STA=13+22.77
OFFSET=13.18
CONC
STA=13+22.80
OFFSET=18.18
EXISTING GAS MAIN. CONTRACTOR TO PROTECT DURING CONSTRUCTION (TYP)
S/W
STA=13+22.91
OFFSET=36.18
BOC
STA=13+22.88
OFFSET=30.18
NEW TYPE "F" CURB. TAPER DOWN LAST 2'
A
C-503
DUNE ALLEN - AREA A
STATION=14+00.00
OFFSET=0.00
NORTHING=496472.59
EASTING=1415451.35
100.00'
10+00
11+00
12+00
13+00
14+00
RIGHT OF WAY
RIGHT OF WAY LINE
WEST COUNTY HIGHWAY 30A
~ 100' RIGHT OF WAY
N
0 10' 20' 40'
SCALE: 1:20_XREF

NOTE:

BOC = BACK OF CURB
FOC = FACE OF CURB
EOP = EDGE OF PAVEMENT
S/W = SIDEWALK
CONC = CONCRETE

SITE PLAN
2A FOCUS AREA 2 - DUNE ALLEN

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Engineering Business No. 2429

DATE ______

MARK	DATE	DESCRIPTION	BY

WALTON COUNTY

WOODWARD, 30A SOUTH
PARKING IMPROVEMENTS
FOCUS AREA 2A
DUNE ALLEN
SITE PLAN

Project No.:	200-11616-15004
Designed By:	TAV
Drawn By:	HCR
Checked By:	

C-102
Sheet

Bar Measures 1 inch

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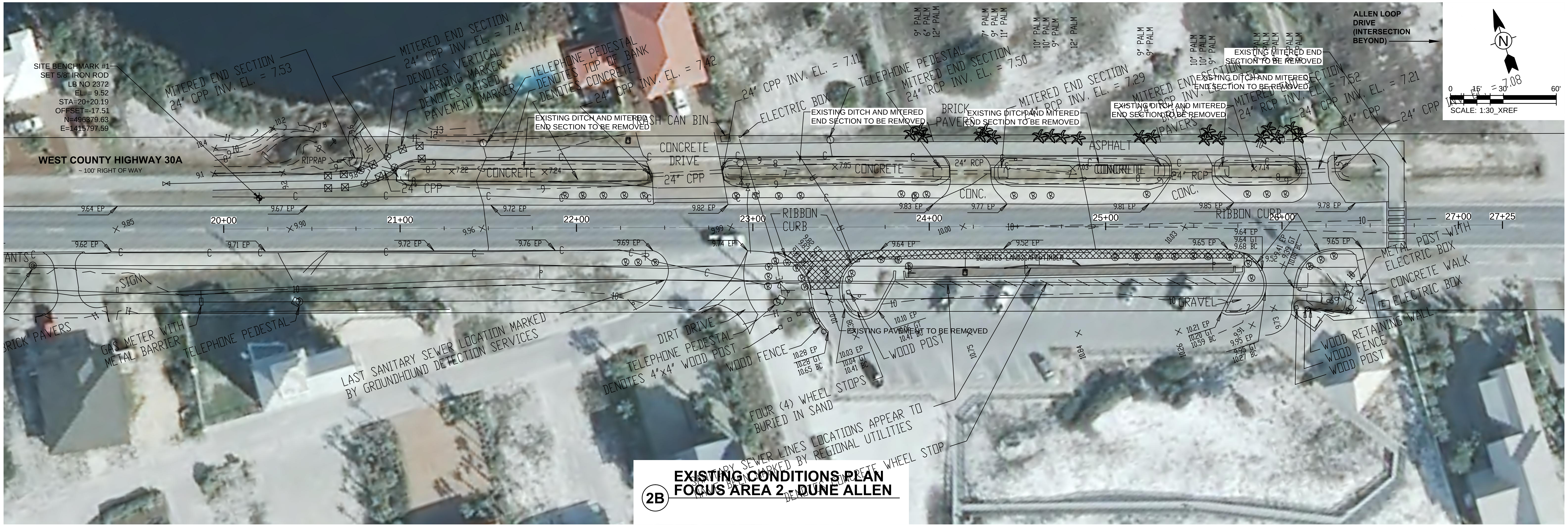
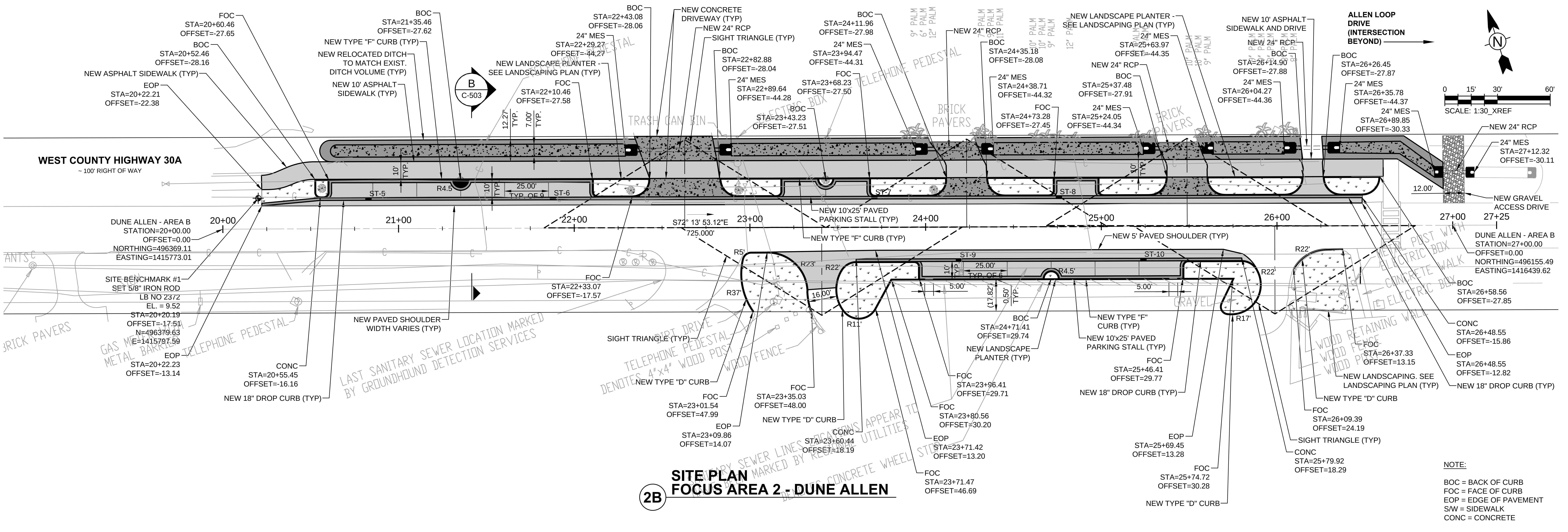

SITE BENCHMARK #1
SET 5/8" IRON ROD
LB NO 2372
EL. = 9.52
STA=20+20.19
OFFSET=-17.51
N=496379.63
E=1415797.59
WEST COUNTY HIGHWAY 30A
~ 100' RIGHT OF WAY
MITERED END SECTION
24" CPP INV. EL. = 7.53
MITERED END SECTION
24" CPP INV. EL. = 7.41
DENOTES VERTICAL WARNING MARKER
DENOTES RAISED PAVEMENT MARKER
TELEPHONE PEDESTAL
DENOTES TOP OF BANK
DENOTES CONCRETE
24" CPP INV. EL. = 7.42
EXISTING DITCH AND MITERED END SECTION TO BE REMOVED
TRASH CAN BIN
CONCRETE DRIVE
24" CPP
24" CPP INV. EL. = 7.11
ELECTRIC BOX
TELEPHONE PEDESTAL
MITERED END SECTION
24" RCP INV. EL. = 7.50
BRICK PAVERS
MITERED END SECTION
24" RCP INV. EL. = 7.29
MITERED END SECTION
24" RCP INV. EL. = 7.52
24" CPP INV. EL. = 7.21
24" CPP INV. EL. = 7.08
24" CPP
RIPRAP
CONCRETE
ASPHALT
24" RCP
CONC.
RIBBON CURB
9' PALM
6' PALM
12' PALM
7' PALM
10' PALM
ALLEN LOOP DRIVE (INTERSECTION BEYOND)
20+00
21+00
22+00
23+00
24+00
25+00
26+00
27+00
27+25
BRICK PAVERS
SIGN
GAS METER WITH METAL BARRIER
TELEPHONE PEDESTAL
LAST SANITARY SEWER LOCATION MARKED BY GROUNDHOUND DETECTION SERVICES
DIRT DRIVE
TELEPHONE PEDESTAL
DENOTES 4"x4" WOOD POST
WOOD FENCE
DENOTES LANDSCAPE TIMBER
EXISTING PAVEMENT TO BE REMOVED
WOOD POST
FOUR (4) WHEEL STOPS BURIED IN SAND
SANITARY SEWER LINES LOCATIONS APPEAR TO BE MARKED BY REGIONAL UTILITIES
DENOTES CONCRETE WHEEL STOP
GRAVEL
METAL POST WITH ELECTRIC BOX
CONCRETE WALK
ELECTRIC BOX
WOOD RETAINING WALL
WOOD FENCE
WOOD POST
0 15' 30' 60'
SCALE: 1:30_XREF
N

EXISTING CONDITIONS PLAN
FOCUS AREA 2 - DUNE ALLEN
2B


FOC
STA=20+60.46
OFFSET=-27.65
BOC
STA=20+52.46
OFFSET=-28.16
NEW ASPHALT SIDEWALK (TYP)
EOP
STA=20+22.21
OFFSET=-22.38
BOC
STA=21+35.46
OFFSET=-27.62
NEW TYPE "F" CURB (TYP)
NEW RELOCATED DITCH TO MATCH EXIST. DITCH VOLUME (TYP)
NEW 10' ASPHALT SIDEWALK (TYP)
B
C-503
BOC
STA=22+43.08
OFFSET=-28.06
24" MES
STA=22+29.27
OFFSET=-44.27
NEW LANDSCAPE PLANTER - SEE LANDSCAPING PLAN (TYP)
FOC
STA=22+10.46
OFFSET=-27.58
NEW CONCRETE DRIVEWAY (TYP)
NEW 24" RCP
SIGHT TRIANGLE (TYP)
BOC
STA=22+82.88
OFFSET=-28.04
24" MES
STA=22+89.64
OFFSET=-44.28
BOC
STA=23+43.23
OFFSET=-27.51
BOC
STA=24+11.96
OFFSET=-27.98
24" MES
STA=23+94.47
OFFSET=-44.31
FOC
STA=23+68.23
OFFSET=-27.50
NEW 24" RCP
BOC
STA=24+35.18
OFFSET=-28.08
24" MES
STA=24+38.71
OFFSET=-44.32
FOC
STA=24+73.28
OFFSET=-27.45
NEW LANDSCAPE PLANTER - SEE LANDSCAPING PLAN (TYP)
24" MES
STA=25+63.97
OFFSET=-44.35
NEW 24" RCP
BOC
STA=25+37.48
OFFSET=-27.91
24" MES
STA=25+24.05
OFFSET=-44.34
NEW 10' ASPHALT SIDEWALK AND DRIVE
NEW 24" RCP
BOC
STA=26+14.90
OFFSET=-27.88
24" MES
STA=26+04.27
OFFSET=-44.36
ALLEN LOOP DRIVE (INTERSECTION BEYOND)
BOC
STA=26+26.45
OFFSET=-27.87
24" MES
STA=26+35.78
OFFSET=-44.37
24" MES
STA=26+89.85
OFFSET=-30.33
NEW 24" RCP
24" MES
STA=27+12.32
OFFSET=-30.11
NEW GRAVEL ACCESS DRIVE
12.00'
WEST COUNTY HIGHWAY 30A
~ 100' RIGHT OF WAY
12.27' TYP.
7.00' TYP.
10' TYP.
R4.5'
25.00' TYP. OF 6
ST-5
ST-6
ST-7
ST-8
10' TYP.
20+00
21+00
22+00
23+00
24+00
25+00
26+00
27+00
27+25
S72° 13' 53.12"E
725.000'
DUNE ALLEN - AREA B
STATION=20+00.00
OFFSET=0.00
NORTHING=496369.11
EASTING=1415773.01
SITE BENCHMARK #1
SET 5/8" IRON ROD
LB NO 2372
EL. = 9.52
STA=20+20.19
OFFSET=-17.51
N=496379.63
E=1415797.59
EOP
STA=20+22.23
OFFSET=-13.14
CONC
STA=20+55.45
OFFSET=-16.16
NEW 18" DROP CURB (TYP)
NEW PAVED SHOULDER WIDTH VARIES (TYP)
FOC
STA=22+33.07
OFFSET=-17.57
SIGHT TRIANGLE (TYP)
NEW TYPE "D" CURB
FOC
STA=23+01.54
OFFSET=47.99
EOP
STA=23+09.86
OFFSET=14.07
FOC
STA=23+35.03
OFFSET=48.00
NEW TYPE "D" CURB
CONC
STA=23+60.44
OFFSET=18.19
NEW 10'x25' PAVED PARKING STALL (TYP)
NEW TYPE "F" CURB (TYP)
NEW 5' PAVED SHOULDER (TYP)
R5'
R23'
R22'
R37'
16.00'
R11'
ST-9
ST-10
25.00' TYP. OF 6
10' TYP.
R4.5'
5.00'
(17.82') TYP.
5.00'
R22'
R22'
R17'
BOC
STA=24+71.41
OFFSET=29.74
NEW LANDSCAPE PLANTER (TYP)
NEW TYPE "F" CURB (TYP)
NEW 10'x25' PAVED PARKING STALL (TYP)
FOC
STA=23+96.41
OFFSET=29.71
FOC
STA=23+80.56
OFFSET=30.20
EOP
STA=23+71.42
OFFSET=13.20
FOC
STA=23+71.47
OFFSET=46.69
FOC
STA=25+46.41
OFFSET=29.77
NEW 18" DROP CURB (TYP)
EOP
STA=25+69.45
OFFSET=13.28
FOC
STA=25+74.72
OFFSET=30.28
NEW TYPE "D" CURB
CONC
STA=25+79.92
OFFSET=18.29
SIGHT TRIANGLE (TYP)
FOC
STA=26+09.39
OFFSET=24.19
NEW TYPE "D" CURB
NEW LANDSCAPING. SEE LANDSCAPING PLAN (TYP)
FOC
STA=26+37.33
OFFSET=13.15
DUNE ALLEN - AREA B
STATION=27+00.00
OFFSET=0.00
NORTHING=496155.49
EASTING=1416439.62
BOC
STA=26+58.56
OFFSET=-27.85
CONC
STA=26+48.55
OFFSET=-15.86
EOP
STA=26+48.55
OFFSET=-12.82
NEW 18" DROP CURB (TYP)
0 15' 30' 60'
SCALE: 1:30_XREF
N

SITE PLAN
FOCUS AREA 2 - DUNE ALLEN
2B

NOTE:

BOC = BACK OF CURB
FOC = FACE OF CURB
EOP = EDGE OF PAVEMENT
S/W = SIDEWALK
CONC = CONCRETE

TETRA TECH

www.tetratech.com
201 EAST PINE STREET, SUITE 1000
ORLANDO, FLORIDA 32801
TEL: (407) 839-3955 FAX: (407) 839-3790

NOT FOR CONSTRUCTION

Tim A. Vanderwalker, P.E.
P.E. No. 74415, FL
201 East Pine Street, Suite 1000
Orlando, Florida 32801
Engineering Business No. 2429

DATE

MARK	DATE	DESCRIPTION	BY

WALTON COUNTY

WOODWARD, 30A SOUTH PARKING IMPROVEMENTS

FOCUS AREA 2B
DUNE ALLEN
SITE PLAN

Project No.:	200-11616-15004
Designed By:	TAV
Drawn By:	HCR
Checked By:	

C-103
Sheet

Bar Measures 1 inch

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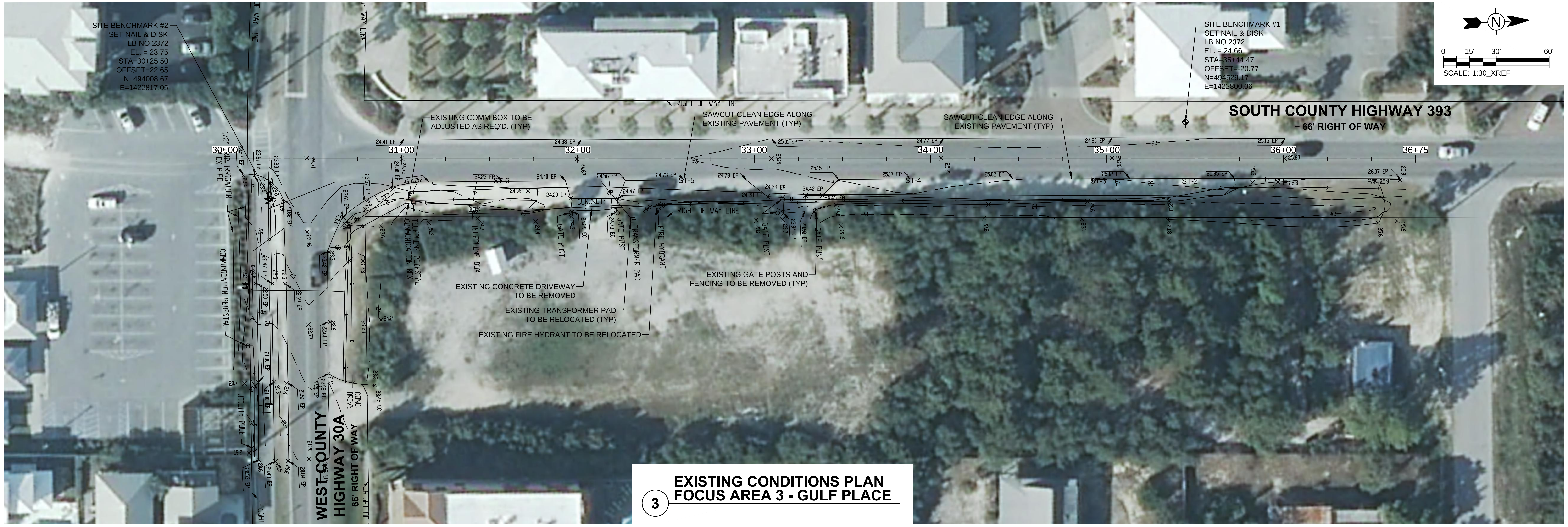
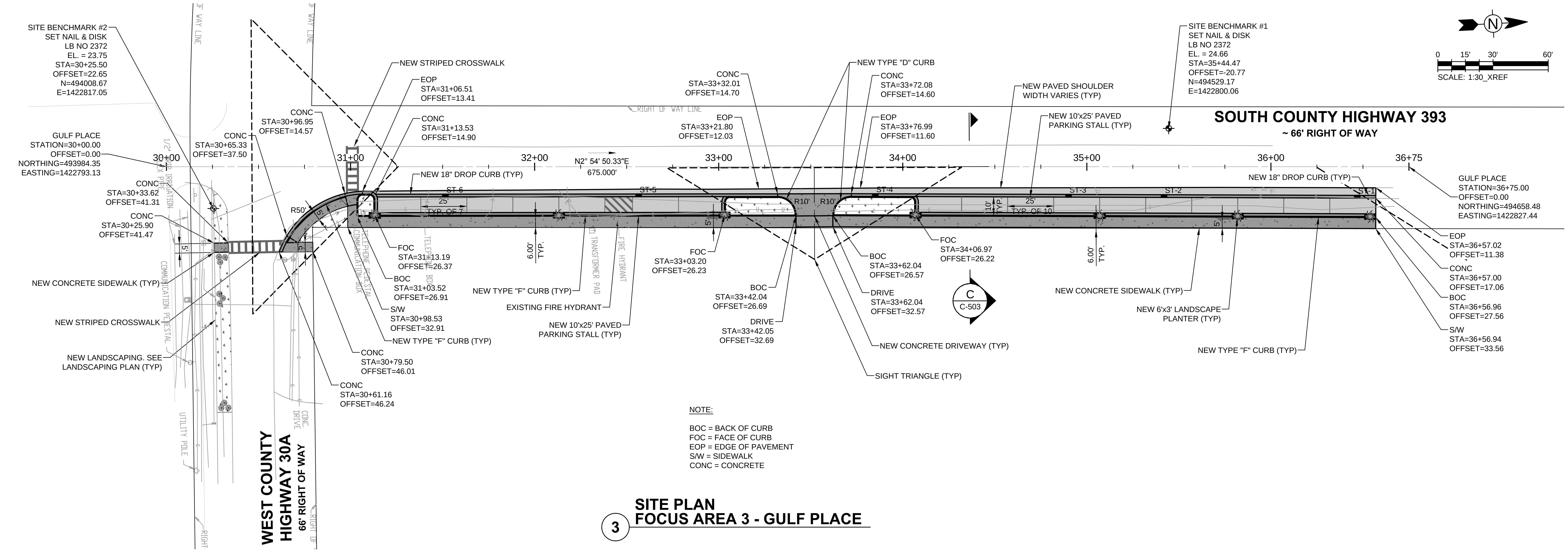

SITE BENCHMARK #2
SET NAIL & DISK
LB NO 2372
EL. = 23.75
STA=30+25.50
OFFSET=22.65
N=494008.67
E=1422817.05
SITE BENCHMARK #1
SET NAIL & DISK
LB NO 2372
EL. = 24.66
STA=35+44.47
OFFSET=-20.77
N=494529.17
E=1422800.06
0 15' 30' 60'
SCALE: 1:30_XREF
SOUTH COUNTY HIGHWAY 393
~ 66' RIGHT OF WAY
EXISTING COMM BOX TO BE ADJUSTED AS REQ'D. (TYP)
SAWCUT CLEAN EDGE ALONG EXISTING PAVEMENT (TYP)
SAWCUT CLEAN EDGE ALONG EXISTING PAVEMENT (TYP)
RIGHT OF WAY LINE
30+00
31+00
32+00
33+00
34+00
35+00
36+00
36+75
ST-6
ST-5
ST-4
ST-3
ST-2
ST-1
CONCRETE
GATE POST
TRANSFORMER PAD
FIRE HYDRANT
TELEPHONE BOX
TELEPHONE PEDESTAL
COMMUNICATION BOX
COMMUNICATION PEDESTAL
UTILITY POLE
CONC. DRIVE
EXISTING CONCRETE DRIVEWAY TO BE REMOVED
EXISTING TRANSFORMER PAD TO BE RELOCATED (TYP)
EXISTING FIRE HYDRANT TO BE RELOCATED
EXISTING GATE POSTS AND FENCING TO BE REMOVED (TYP)
WEST COUNTY HIGHWAY 30A
66' RIGHT OF WAY

EXISTING CONDITIONS PLAN
FOCUS AREA 3 - GULF PLACE

3


SITE BENCHMARK #2
SET NAIL & DISK
LB NO 2372
EL. = 23.75
STA=30+25.50
OFFSET=22.65
N=494008.67
E=1422817.05
GULF PLACE
STATION=30+00.00
OFFSET=0.00
NORTHING=493984.35
EASTING=1422793.13
CONC
STA=30+33.62
OFFSET=41.31
CONC
STA=30+25.90
OFFSET=41.47
NEW CONCRETE SIDEWALK (TYP)
NEW STRIPED CROSSWALK
NEW LANDSCAPING. SEE LANDSCAPING PLAN (TYP)
CONC
STA=30+65.33
OFFSET=37.50
CONC
STA=30+96.95
OFFSET=14.57
NEW STRIPED CROSSWALK
EOP
STA=31+06.51
OFFSET=13.41
CONC
STA=31+13.53
OFFSET=14.90
30+00
31+00
32+00
33+00
34+00
35+00
36+00
36+75
N2° 54' 50.33"E
675.000'
NEW 18" DROP CURB (TYP)
R50'
25'
TYP. OF 7
6.00' TYP.
5'
FOC
STA=31+13.19
OFFSET=26.37
BOC
STA=31+03.52
OFFSET=26.91
S/W
STA=30+98.53
OFFSET=32.91
NEW TYPE "F" CURB (TYP)
CONC
STA=30+79.50
OFFSET=46.01
CONC
STA=30+61.16
OFFSET=46.24
NEW TYPE "F" CURB (TYP)
EXISTING FIRE HYDRANT
NEW 10'x25' PAVED PARKING STALL (TYP)
CONC
STA=33+32.01
OFFSET=14.70
EOP
STA=33+21.80
OFFSET=12.03
FOC
STA=33+03.20
OFFSET=26.23
BOC
STA=33+42.04
OFFSET=26.69
DRIVE
STA=33+42.05
OFFSET=32.69
NEW TYPE "D" CURB
CONC
STA=33+72.08
OFFSET=14.60
EOP
STA=33+76.99
OFFSET=11.60
R10'
R10'
BOC
STA=33+62.04
OFFSET=26.57
DRIVE
STA=33+62.04
OFFSET=32.57
NEW CONCRETE DRIVEWAY (TYP)
SIGHT TRIANGLE (TYP)
FOC
STA=34+06.97
OFFSET=26.22
C
C-503
NEW PAVED SHOULDER WIDTH VARIES (TYP)
NEW 10'x25' PAVED PARKING STALL (TYP)
10' TYP.
25'
TYP. OF 10
NEW CONCRETE SIDEWALK (TYP)
NEW 6'x3' LANDSCAPE PLANTER (TYP)
NEW TYPE "F" CURB (TYP)
SITE BENCHMARK #1
SET NAIL & DISK
LB NO 2372
EL. = 24.66
STA=35+44.47
OFFSET=-20.77
N=494529.17
E=1422800.06
0 15' 30' 60'
SCALE: 1:30_XREF
SOUTH COUNTY HIGHWAY 393
~ 66' RIGHT OF WAY
NEW 18" DROP CURB (TYP)
GULF PLACE
STATION=36+75.00
OFFSET=0.00
NORTHING=494658.48
EASTING=1422827.44
EOP
STA=36+57.02
OFFSET=11.38
CONC
STA=36+57.00
OFFSET=17.06
BOC
STA=36+56.96
OFFSET=27.56
S/W
STA=36+56.94
OFFSET=33.56
ST-6
ST-5
ST-4
ST-3
ST-2
ST-1
RIGHT OF WAY LINE
TRANSFORMER PAD
FIRE HYDRANT
TELEPHONE PEDESTAL
COMMUNICATION BOX
TELEPHONE BOX
COMMUNICATION PEDESTAL
UTILITY POLE
CONC. DRIVE
WEST COUNTY HIGHWAY 30A
66' RIGHT OF WAY

NOTE:

BOC = BACK OF CURB
FOC = FACE OF CURB
EOP = EDGE OF PAVEMENT
S/W = SIDEWALK
CONC = CONCRETE

SITE PLAN
FOCUS AREA 3 - GULF PLACE

3

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NOT FOR CONSTRUCTION

Tim A. Vanderwalker, P.E.
P.E. No. 74415, FL

201 East Pine Street, Suite 1000
Orlando, Florida 32801
Engineering Business No. 2429

DATE

MARK	DATE	DESCRIPTION	BY

WALTON COUNTY

WOODWARD, 30A SOUTH
PARKING IMPROVEMENTS

FOCUS AREA 3
GULF PLACE
SITE PLAN

Project No.:	200-11616-15004
Designed By:	TAV
Drawn By:	HCR
Checked By:	

C-104
Sheet

Bar Measures 1 inch

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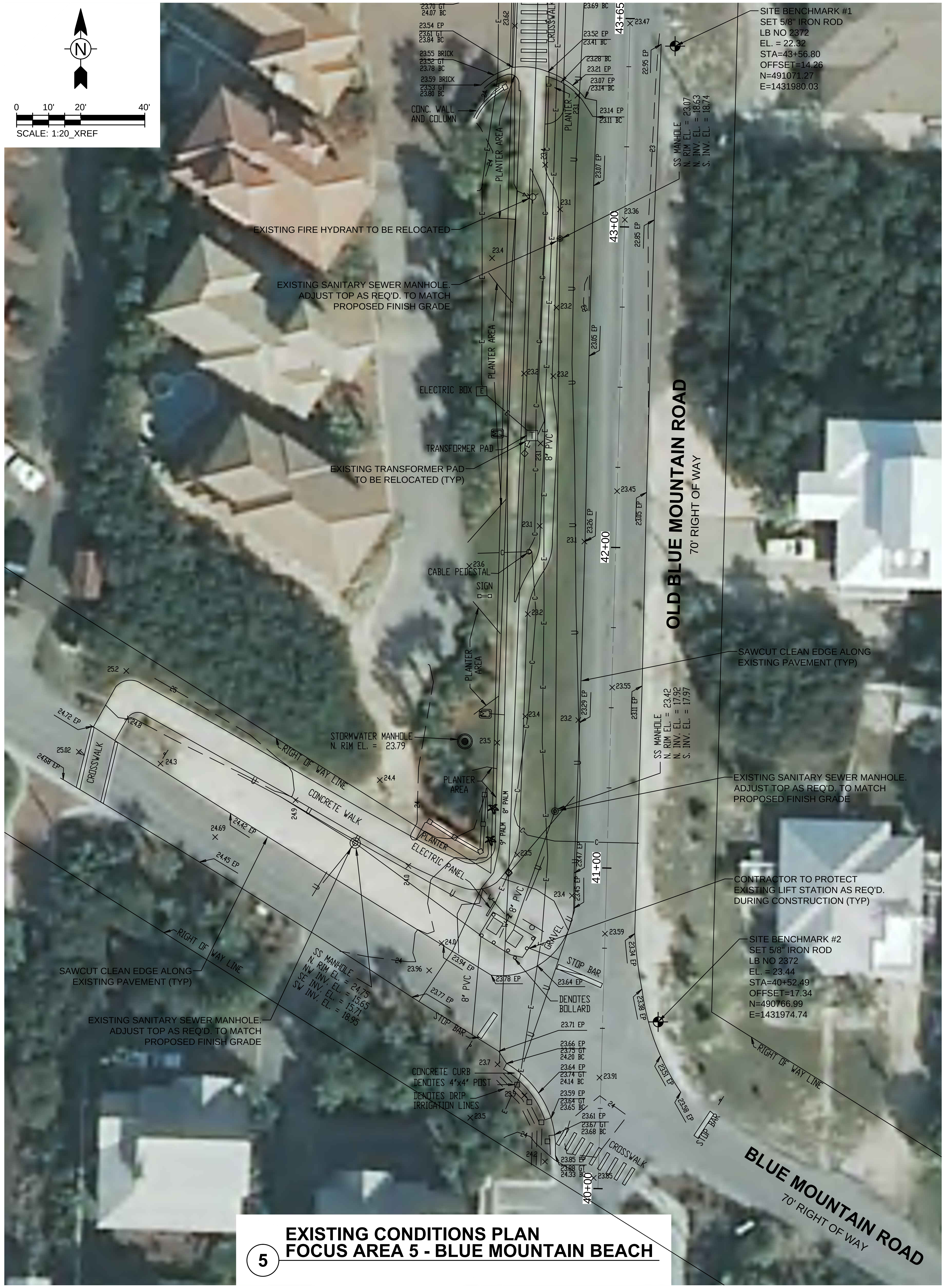
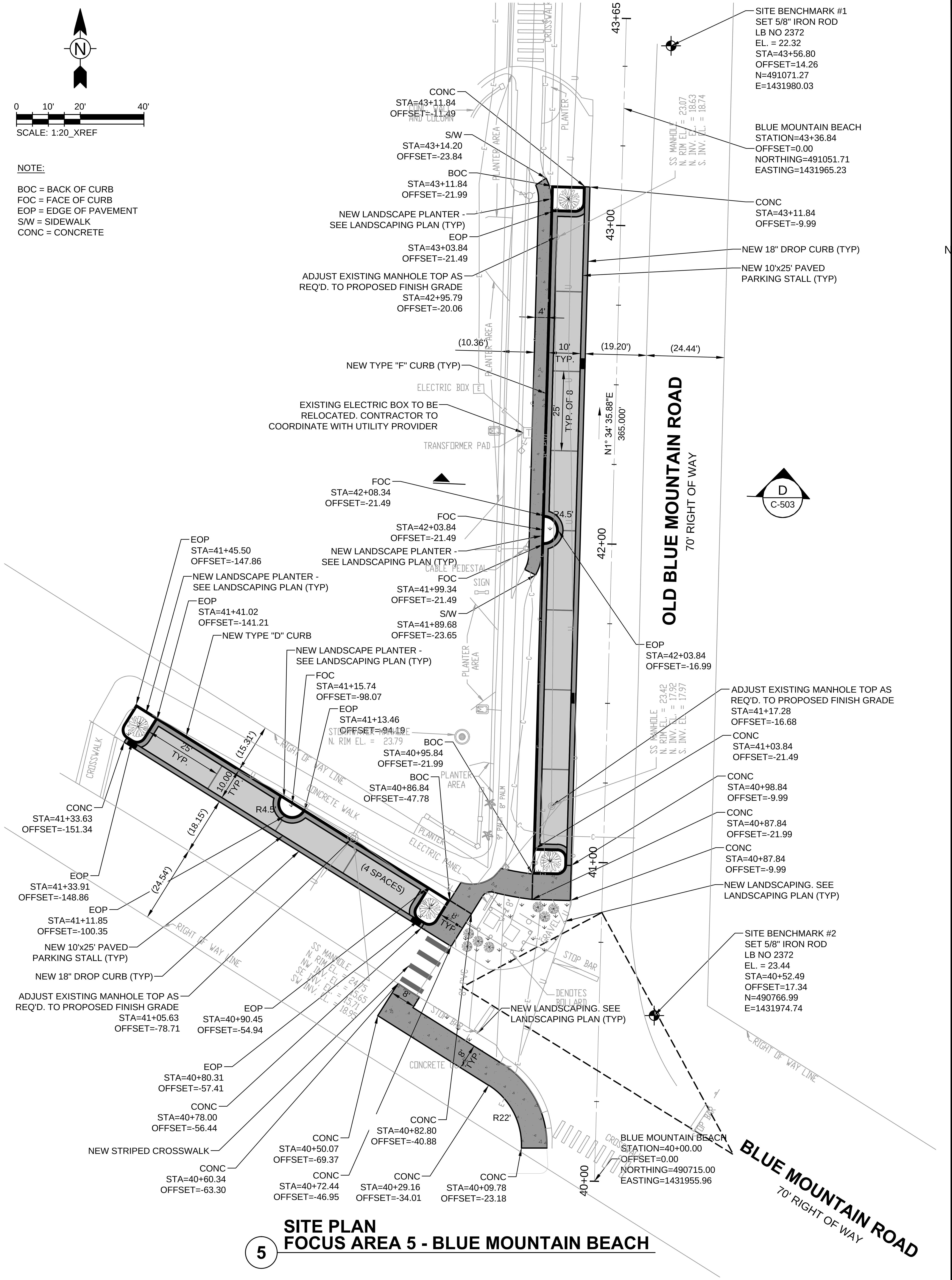

N
0 10' 20' 40'
SCALE: 1:20_XREF
EXISTING FIRE HYDRANT TO BE RELOCATED
EXISTING SANITARY SEWER MANHOLE. ADJUST TOP AS REQ'D. TO MATCH PROPOSED FINISH GRADE
ELECTRIC BOX
TRANSFORMER PAD
EXISTING TRANSFORMER PAD TO BE RELOCATED (TYP)
CABLE PEDESTAL
SIGN
PLANTER AREA
CONC. WALL AND COLUMN
STORMWATER MANHOLE N. RIM EL. = 23.79
SAWCUT CLEAN EDGE ALONG EXISTING PAVEMENT (TYP)
EXISTING SANITARY SEWER MANHOLE. ADJUST TOP AS REQ'D. TO MATCH PROPOSED FINISH GRADE
CONTRACTOR TO PROTECT EXISTING LIFT STATION AS REQ'D. DURING CONSTRUCTION (TYP)
SITE BENCHMARK #1 SET 5/8" IRON ROD LB NO 2372 EL. = 22.32 STA=43+56.80 OFFSET=14.26 N=491071.27 E=1431980.03
SITE BENCHMARK #2 SET 5/8" IRON ROD LB NO 2372 EL. = 23.44 STA=40+52.49 OFFSET=17.34 N=490766.99 E=1431974.74
SS MANHOLE N. RIM EL. = 23.07 N. INV. EL. = 18.63 S. INV. EL. = 18.74
SS MANHOLE N. RIM EL. = 23.42 N. INV. EL. = 17.92 S. INV. EL. = 17.97
SS MANHOLE N. RIM EL. = 24.75 NW INV. EL. = 15.65 N. INV. EL. = 15.71 SV INV. EL. = 18.95
OLD BLUE MOUNTAIN ROAD
70' RIGHT OF WAY
BLUE MOUNTAIN ROAD
70' RIGHT OF WAY
RIGHT OF WAY LINE
CONCRETE WALK
CROSSWALK
ELECTRIC PANEL
8" PVC
9" PALM
GRAVEL
STOP BAR
DENOTES BOLLARD
CONCRETE CURB
DENOTES 4"x4" POST
DENOTES DRIP IRRIGATION LINES
43+65
43+00
42+00
41+00
40+00

EXISTING CONDITIONS PLAN
FOCUS AREA 5 - BLUE MOUNTAIN BEACH

5


N
0 10' 20' 40'
SCALE: 1:20_XREF
SITE BENCHMARK #1 SET 5/8" IRON ROD LB NO 2372 EL. = 22.32 STA=43+56.80 OFFSET=14.26 N=491071.27 E=1431980.03
BLUE MOUNTAIN BEACH STATION=43+36.84 OFFSET=0.00 NORTHING=491051.71 EASTING=1431965.23
CONC STA=43+11.84 OFFSET=-11.49
S/W STA=43+14.20 OFFSET=-23.84
BOC STA=43+11.84 OFFSET=-21.99
NEW LANDSCAPE PLANTER - SEE LANDSCAPING PLAN (TYP)
EOP STA=43+03.84 OFFSET=-21.49
ADJUST EXISTING MANHOLE TOP AS REQ'D. TO PROPOSED FINISH GRADE STA=42+95.79 OFFSET=-20.06
CONC STA=43+11.84 OFFSET=-9.99
NEW 18" DROP CURB (TYP)
NEW 10'x25' PAVED PARKING STALL (TYP)
(10.36') 10' TYP. (19.20') (24.44')
4'
NEW TYPE "F" CURB (TYP)
EXISTING ELECTRIC BOX TO BE RELOCATED. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER
25' TYP. OF 8
N1° 34' 35.88"E 365.000'
FOC STA=42+08.34 OFFSET=-21.49
FOC STA=42+03.84 OFFSET=-21.49
NEW LANDSCAPE PLANTER - SEE LANDSCAPING PLAN (TYP)
FOC STA=41+99.34 OFFSET=-21.49
S/W STA=41+89.68 OFFSET=-23.65
24.5'
EOP STA=42+03.84 OFFSET=-16.99
D C-503
OLD BLUE MOUNTAIN ROAD
70' RIGHT OF WAY
EOP STA=41+45.50 OFFSET=-147.86
NEW LANDSCAPE PLANTER - SEE LANDSCAPING PLAN (TYP)
EOP STA=41+41.02 OFFSET=-141.21
NEW TYPE "D" CURB
NEW LANDSCAPE PLANTER - SEE LANDSCAPING PLAN (TYP)
FOC STA=41+15.74 OFFSET=-98.07
EOP STA=41+13.46 OFFSET=-94.19
BOC STA=40+95.84 OFFSET=-21.99
BOC STA=40+86.84 OFFSET=-47.78
ADJUST EXISTING MANHOLE TOP AS REQ'D. TO PROPOSED FINISH GRADE STA=41+17.28 OFFSET=-16.68
CONC STA=41+03.84 OFFSET=-21.49
CONC STA=40+98.84 OFFSET=-9.99
CONC STA=40+87.84 OFFSET=-21.99
CONC STA=40+87.84 OFFSET=-9.99
NEW LANDSCAPING. SEE LANDSCAPING PLAN (TYP)
CONC STA=41+33.63 OFFSET=-151.34
25' TYP.
(15.31')
10.00' TYP.
R4.5'
(18.15')
(24.54')
(4 SPACES)
EOP STA=41+33.91 OFFSET=-148.86
EOP STA=41+11.85 OFFSET=-100.35
NEW 10'x25' PAVED PARKING STALL (TYP)
NEW 18" DROP CURB (TYP)
ADJUST EXISTING MANHOLE TOP AS REQ'D. TO PROPOSED FINISH GRADE STA=41+05.63 OFFSET=-78.71
EOP STA=40+90.45 OFFSET=-54.94
EOP STA=40+80.31 OFFSET=-57.41
CONC STA=40+78.00 OFFSET=-56.44
NEW STRIPED CROSSWALK
CONC STA=40+60.34 OFFSET=-63.30
CONC STA=40+50.07 OFFSET=-69.37
CONC STA=40+72.44 OFFSET=-46.95
CONC STA=40+82.80 OFFSET=-40.88
CONC STA=40+29.16 OFFSET=-34.01
CONC STA=40+09.78 OFFSET=-23.18
NEW LANDSCAPING. SEE LANDSCAPING PLAN (TYP)
SITE BENCHMARK #2 SET 5/8" IRON ROD LB NO 2372 EL. = 23.44 STA=40+52.49 OFFSET=17.34 N=490766.99 E=1431974.74
BLUE MOUNTAIN BEACH STATION=40+00.00 OFFSET=0.00 NORTHING=490715.00 EASTING=1431955.96
R22'
8'
BLUE MOUNTAIN ROAD
70' RIGHT OF WAY
43+65
43+00
42+00
41+00
40+00

NOTE:

BOC = BACK OF CURB
FOC = FACE OF CURB
EOP = EDGE OF PAVEMENT
S/W = SIDEWALK
CONC = CONCRETE

SITE PLAN
FOCUS AREA 5 - BLUE MOUNTAIN BEACH

5

TETRA TECH

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NOT FOR CONSTRUCTION

Tim A. Vanderwalker, P.E.
P.E. No. 74415, FL
201 East Pine Street, Suite 1000
Orlando, Florida 32801
Engineering Business No. 2429

DATE ______

MARK	DATE	DESCRIPTION	BY

WALTON COUNTY

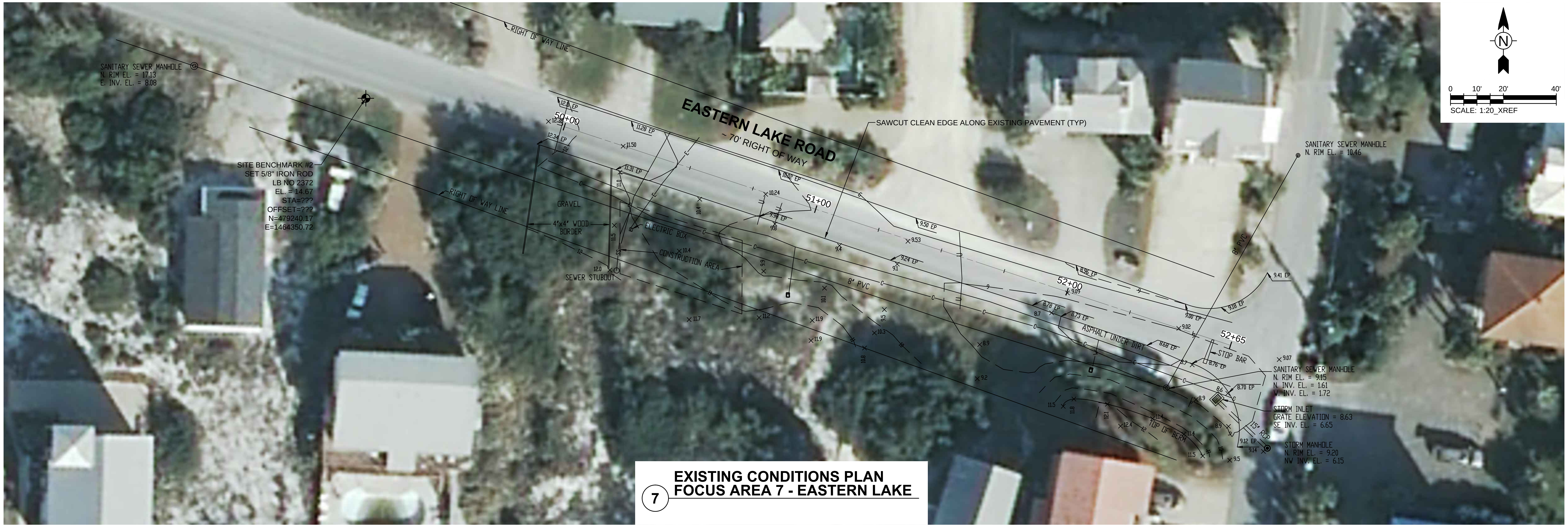
WOODWARD, 30A SOUTH
PARKING IMPROVEMENTS

FOCUS AREA 5
BLUE MOUNTAIN BEACH
SITE PLAN

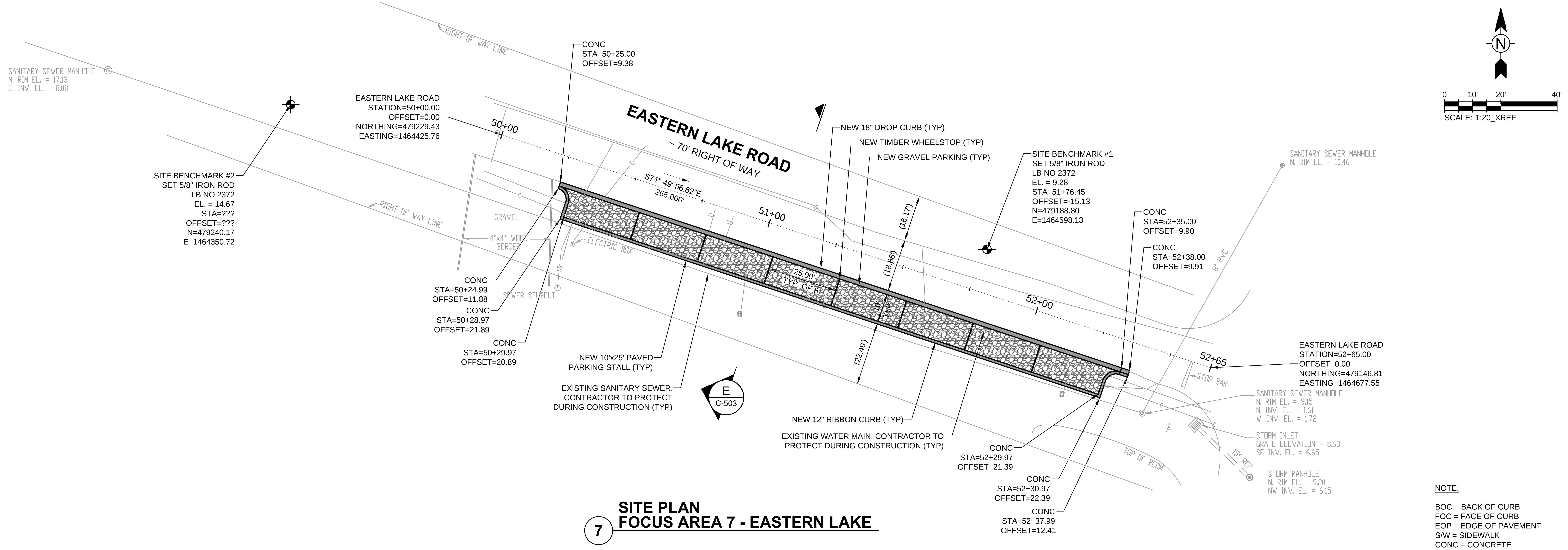
Project No.:	200-11616-15004
Designed By:	TAV
Drawn By:	HCR
Checked By:	

C-105
Sheet

Bar Measures 1 inch


EASTERN LAKE ROAD
~ 70' RIGHT OF WAY
RIGHT OF WAY LINE
SANITARY SEWER MANHOLE
N. RIM EL. = 17.13
E. INV. EL. = 8.08
SITE BENCHMARK #2
SET 5/8" IRON ROD
LB NO 2372
EL. = 14.67
STA=???
OFFSET=???
N=479240.17
E=1464350.72
50+00
51+00
52+00
52+65
GRAVEL
4"x4" WOOD BORDER
ELECTRIC BOX
CONSTRUCTION AREA
SEWER STUBOUT
8" PVC
SAWCUT CLEAN EDGE ALONG EXISTING PAVEMENT (TYP)
ASPHALT UNDER DIRT
STOP BAR
TOP OF BERM
15" RCP
SANITARY SEWER MANHOLE
N. RIM EL. = 10.46
SANITARY SEWER MANHOLE
N. RIM EL. = 9.15
N. INV. EL. = 1.61
W. INV. EL. = 1.72
STORM INLET
GRATE ELEVATION = 8.63
SE INV. EL. = 6.65
STORM MANHOLE
N. RIM EL. = 9.20
NW INV. EL. = 6.15
N
0 10' 20' 40'
SCALE: 1:20_XREF

EXISTING CONDITIONS PLAN
7 FOCUS AREA 7 - EASTERN LAKE


EASTERN LAKE ROAD
~ 70' RIGHT OF WAY
RIGHT OF WAY LINE
SANITARY SEWER MANHOLE
N. RIM EL. = 17.13
E. INV. EL. = 8.08
CONC
STA=50+25.00
OFFSET=9.38
EASTERN LAKE ROAD
STATION=50+00.00
OFFSET=0.00
NORTHING=479229.43
EASTING=1464425.76
50+00
SITE BENCHMARK #2
SET 5/8" IRON ROD
LB NO 2372
EL. = 14.67
STA=???
OFFSET=???
N=479240.17
E=1464350.72
S71° 49' 56.82"E
265.000'
GRAVEL
4"x4" WOOD BORDER
ELECTRIC BOX
SEWER STUBOUT
51+00
NEW 18" DROP CURB (TYP)
NEW TIMBER WHEELSTOP (TYP)
NEW GRAVEL PARKING (TYP)
SITE BENCHMARK #1
SET 5/8" IRON ROD
LB NO 2372
EL. = 9.28
STA=51+76.45
OFFSET=-15.13
N=479188.80
E=1464598.13
(16.17')
(18.86')
25.00'
TYP. OF 8
(22.49')
CONC
STA=52+35.00
OFFSET=9.90
CONC
STA=52+38.00
OFFSET=9.91
8" PVC
52+00
SANITARY SEWER MANHOLE
N. RIM EL. = 10.46
CONC
STA=50+24.99
OFFSET=11.88
CONC
STA=50+28.97
OFFSET=21.89
CONC
STA=50+29.97
OFFSET=20.89
NEW 10'x25' PAVED PARKING STALL (TYP)
EXISTING SANITARY SEWER. CONTRACTOR TO PROTECT DURING CONSTRUCTION (TYP)
E
C-503
NEW 12" RIBBON CURB (TYP)
EXISTING WATER MAIN. CONTRACTOR TO PROTECT DURING CONSTRUCTION (TYP)
EASTERN LAKE ROAD
STATION=52+65.00
OFFSET=0.00
NORTHING=479146.81
EASTING=1464677.55
52+65
STOP BAR
SANITARY SEWER MANHOLE
N. RIM EL. = 9.15
N. INV. EL. = 1.61
W. INV. EL. = 1.72
STORM INLET
GRATE ELEVATION = 8.63
SE INV. EL. = 6.65
TOP OF BERM
15" RCP
STORM MANHOLE
N. RIM EL. = 9.20
NW INV. EL. = 6.15
CONC
STA=52+29.97
OFFSET=21.39
CONC
STA=52+30.97
OFFSET=22.39
CONC
STA=52+37.99
OFFSET=12.41
N
0 10' 20' 40'
SCALE: 1:20_XREF

SITE PLAN
7 FOCUS AREA 7 - EASTERN LAKE

NOTE:

BOC = BACK OF CURB
FOC = FACE OF CURB
EOP = EDGE OF PAVEMENT
S/W = SIDEWALK
CONC = CONCRETE

TETRA TECH

www.tetratech.com
201 EAST PINE STREET, SUITE 1000
ORLANDO, FLORIDA 32801
TEL: (407) 839-3955 FAX: (407) 839-3790

NOT FOR CONSTRUCTION

Tim A. Vanderwalker, P.E.
P.E. No. 74415, FL
201 East Pine Street, Suite 1000
Orlando, Florida 32801
Engineering Business No. 2429

DATE ______

MARK	DATE	DESCRIPTION	BY

WALTON COUNTY

WOODWARD, 30A SOUTH
PARKING IMPROVEMENTS

FOCUS AREA 7
EASTERN LAKE
SITE PLAN

Project No.:	200-11616-15004
Designed By:	TAV
Drawn By:	HCR
Checked By:	

C-106
Sheet

Bar Measures 1 inch

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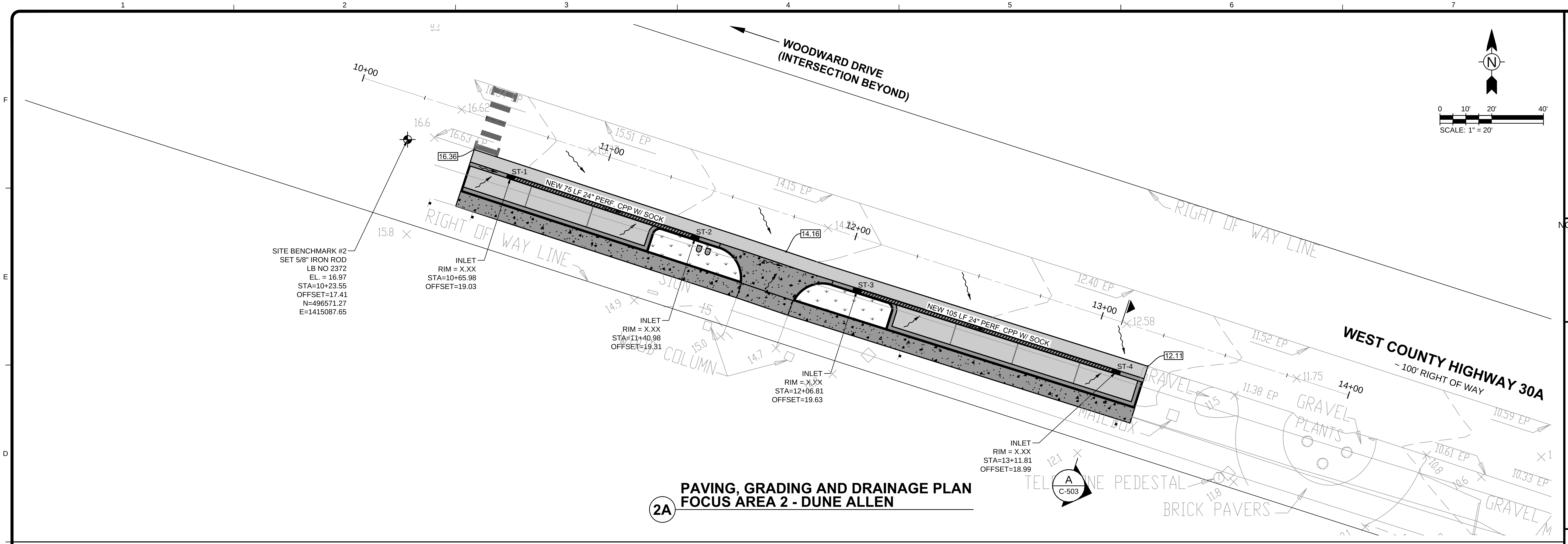
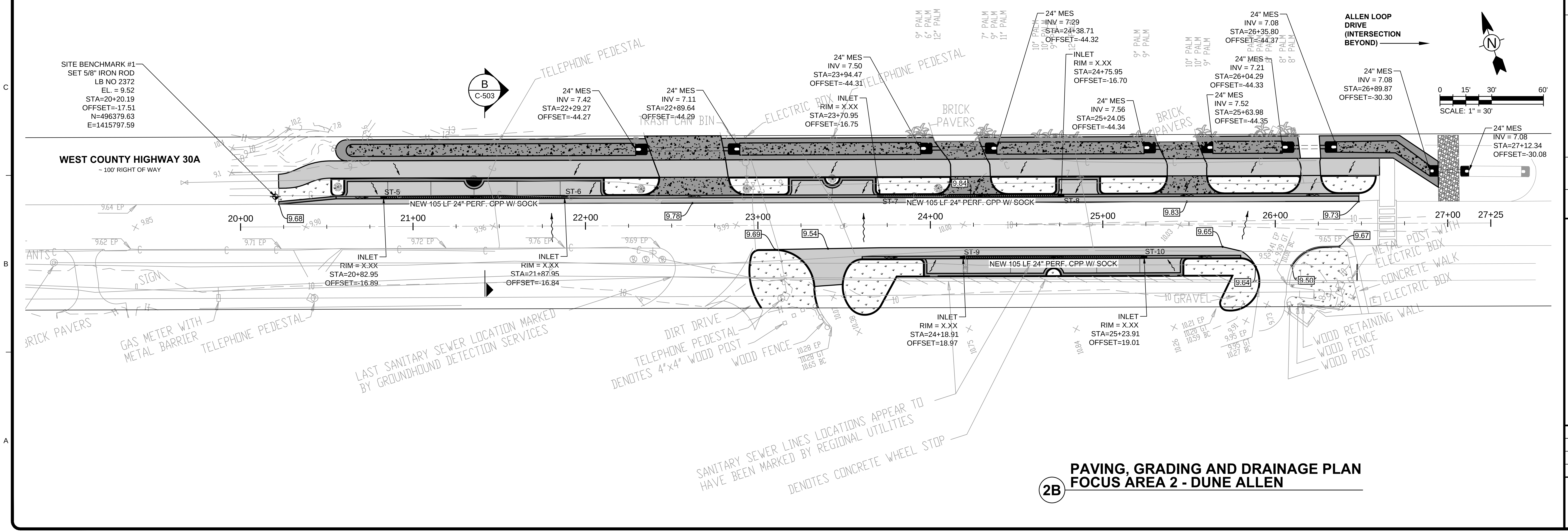

WOODWARD DRIVE (INTERSECTION BEYOND)
N
0 10' 20' 40'
SCALE: 1" = 20'
10+00
11+00
12+00
13+00
14+00
16.36
14.16
12.11
ST-1
ST-2
ST-3
ST-4
NEW 75 LF 24" PERF. CPP W/ SOCK
NEW 105 LF 24" PERF. CPP W/ SOCK
SITE BENCHMARK #2 SET 5/8" IRON ROD LB NO 2372 EL. = 16.97 STA=10+23.55 OFFSET=17.41 N=496571.27 E=1415087.65
INLET RIM = X.XX STA=10+65.98 OFFSET=19.03
INLET RIM = X.XX STA=11+40.98 OFFSET=19.31
INLET RIM = X.XX STA=12+06.81 OFFSET=19.63
INLET RIM = X.XX STA=13+11.81 OFFSET=18.99
RIGHT OF WAY LINE
15.51 EP
14.15 EP
12.40 EP
11.52 EP
11.38 EP
10.59 EP
10.61 EP
10.33 EP
16.62
16.63 EP
16.6
15.8
14.9
15.0
14.7
12.58
11.75
12.1
11.8
SIGN
COLUMN
GRAVEL
PLANTS
MAIL BOX
TELEPHONE PEDESTAL
BRICK PAVERS
A C-503
WEST COUNTY HIGHWAY 30A
~ 100' RIGHT OF WAY

PAVING, GRADING AND DRAINAGE PLAN FOCUS AREA 2 - DUNE ALLEN

2A


ALLEN LOOP DRIVE (INTERSECTION BEYOND)
N
0 15' 30' 60'
SCALE: 1" = 30'
SITE BENCHMARK #1 SET 5/8" IRON ROD LB NO 2372 EL. = 9.52 STA=20+20.19 OFFSET=-17.51 N=496379.63 E=1415797.59
B C-503
WEST COUNTY HIGHWAY 30A
~ 100' RIGHT OF WAY
24" MES INV = 7.42 STA=22+29.27 OFFSET=-44.27
24" MES INV = 7.11 STA=22+89.64 OFFSET=-44.29
24" MES INV = 7.50 STA=23+94.47 OFFSET=-44.31
INLET RIM = X.XX STA=23+70.95 OFFSET=-16.75
24" MES INV = 7.29 STA=24+38.71 OFFSET=-44.32
INLET RIM = X.XX STA=24+75.95 OFFSET=-16.70
24" MES INV = 7.56 STA=25+24.05 OFFSET=-44.34
24" MES INV = 7.08 STA=26+35.80 OFFSET=-44.37
24" MES INV = 7.21 STA=26+04.29 OFFSET=-44.33
24" MES INV = 7.52 STA=25+63.98 OFFSET=-44.35
24" MES INV = 7.08 STA=26+89.87 OFFSET=-30.30
24" MES INV = 7.08 STA=27+12.34 OFFSET=-30.08
ST-5
ST-6
ST-7
ST-8
ST-9
ST-10
NEW 105 LF 24" PERF. CPP W/ SOCK
NEW 105 LF 24" PERF. CPP W/ SOCK
NEW 105 LF 24" PERF. CPP W/ SOCK
20+00
21+00
22+00
23+00
24+00
25+00
26+00
27+00
27+25
9.68
9.78
9.69
9.54
9.84
9.83
9.65
9.73
9.67
9.64
9.50
INLET RIM = X.XX STA=20+82.95 OFFSET=-16.89
INLET RIM = X.XX STA=21+87.95 OFFSET=-16.84
INLET RIM = X.XX STA=24+18.91 OFFSET=18.97
INLET RIM = X.XX STA=25+23.91 OFFSET=19.01
TELEPHONE PEDESTAL
ELECTRIC BOX
TRASH CAN BIN
BRICK PAVERS
9' PALM
6' PALM
12' PALM
7' PALM
11' PALM
10' PALM
8' PALM
9.64 EP
9.62 EP
9.71 EP
9.72 EP
9.76 EP
9.69 EP
9.65 EP
SIGN
GAS METER WITH METAL BARRIER
BRICK PAVERS
LAST SANITARY SEWER LOCATION MARKED BY GROUNDHOUND DETECTION SERVICES
DIRT DRIVE
TELEPHONE PEDESTAL
DENOTES 4"x4" WOOD POST
WOOD FENCE
GRAVEL
METAL POST WITH ELECTRIC BOX
CONCRETE WALK
ELECTRIC BOX
WOOD RETAINING WALL
WOOD FENCE
WOOD POST
SANITARY SEWER LINES LOCATIONS APPEAR TO HAVE BEEN MARKED BY REGIONAL UTILITIES
DENOTES CONCRETE WHEEL STOP

PAVING, GRADING AND DRAINAGE PLAN FOCUS AREA 2 - DUNE ALLEN

2B

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www.tetratech.com

NOT FOR CONSTRUCTION

Tim A. Vanderwalker, P.E.
P.E. No. 74415, FL

201 East Pine Street, Suite 1000
Orlando, Florida 32801
Engineering Business No. 2429

DATE

MARK	DATE	DESCRIPTION	BY

WALTON COUNTY

WOODWARD, 30A SOUTH
PARKING IMPROVEMENTS

FOCUS AREA 2
PAVING, GRADING
AND DRAINAGE PLAN

Project No.:	200-11616-15004
Designed By:	TAV
Drawn By:	HCR
Checked By:	

C-201

Sheet

Bar Measures 1 inch

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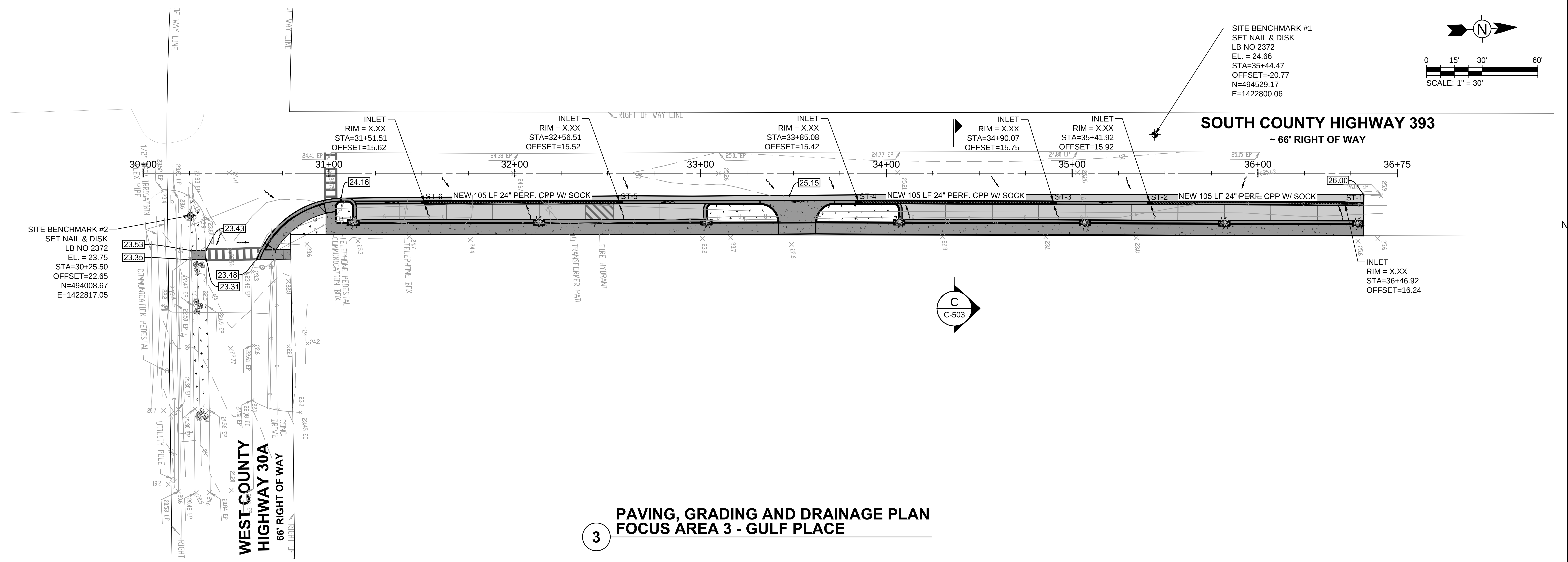
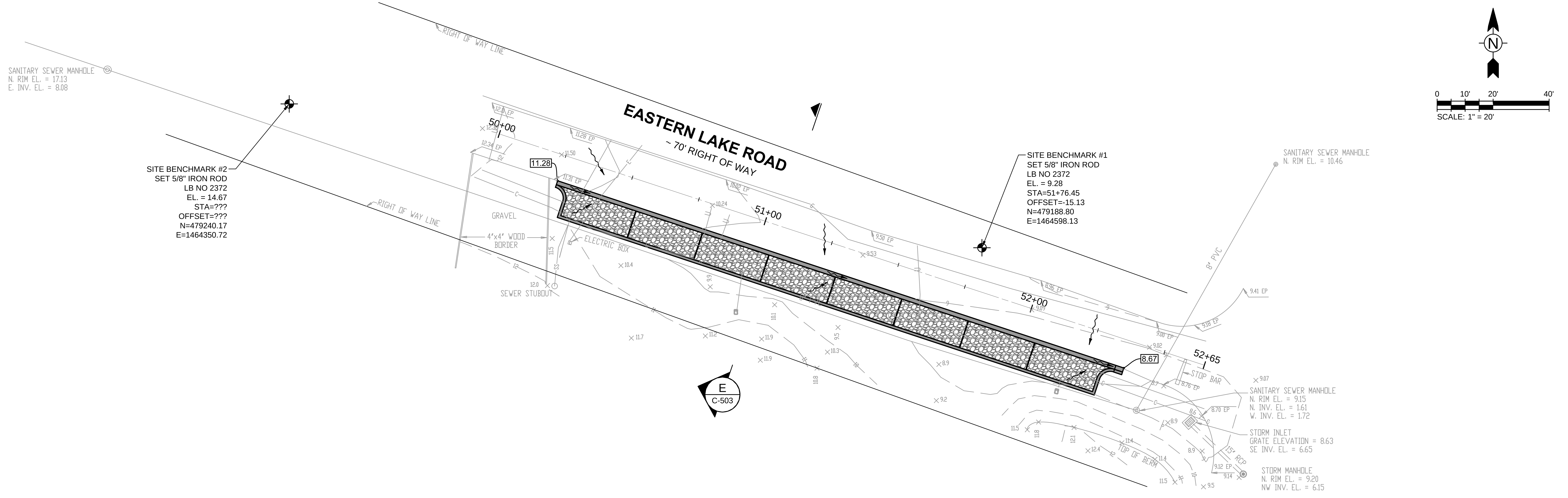

SITE BENCHMARK #1
SET NAIL & DISK
LB NO 2372
EL. = 24.66
STA=35+44.47
OFFSET=20.77
N=494529.17
E=1422800.06
SOUTH COUNTY HIGHWAY 393
~ 66' RIGHT OF WAY
SCALE: 1" = 30'
0 15' 30' 60'
INLET
RIM = X.XX
STA=31+51.51
OFFSET=15.62
INLET
RIM = X.XX
STA=32+56.51
OFFSET=15.52
INLET
RIM = X.XX
STA=33+85.08
OFFSET=15.42
INLET
RIM = X.XX
STA=34+90.07
OFFSET=15.75
INLET
RIM = X.XX
STA=35+41.92
OFFSET=15.92
INLET
RIM = X.XX
STA=36+46.92
OFFSET=16.24
30+00
31+00
32+00
33+00
34+00
35+00
36+00
36+75
ST-6
NEW 105 LF 24" PERF. CPP W/ SOCK
ST-5
ST-4
NEW 105 LF 24" PERF. CPP W/ SOCK
ST-3
ST-2
NEW 105 LF 24" PERF. CPP W/ SOCK
ST-1
24.16
25.15
26.00
SITE BENCHMARK #2
SET NAIL & DISK
LB NO 2372
EL. = 23.75
STA=30+25.50
OFFSET=22.65
N=494008.67
E=1422817.05
23.43
23.53
23.35
23.48
23.31
TELEPHONE PEDESTAL
COMMUNICATION BOX
TELEPHONE BOX
TRANSFORMER PAD
FIRE HYDRANT
RIGHT OF WAY LINE
COMMUNICATION PEDESTAL
UTILITY POLE
CONC. DRIVE
C
C-503
WEST COUNTY HIGHWAY 30A
66' RIGHT OF WAY

PAVING, GRADING AND DRAINAGE PLAN
FOCUS AREA 3 - GULF PLACE

③


RIGHT OF WAY LINE
SANITARY SEWER MANHOLE
N. RIM EL. = 17.13
E. INV. EL. = 8.08
SCALE: 1" = 20'
0 10' 20' 40'
EASTERN LAKE ROAD
~ 70' RIGHT OF WAY
50+00
51+00
52+00
52+65
11.28
8.67
SITE BENCHMARK #2
SET 5/8" IRON ROD
LB NO 2372
EL. = 14.67
STA=???
OFFSET=???
N=479240.17
E=1464350.72
SITE BENCHMARK #1
SET 5/8" IRON ROD
LB NO 2372
EL. = 9.28
STA=51+76.45
OFFSET=-15.13
N=479188.80
E=1464598.13
SANITARY SEWER MANHOLE
N. RIM EL. = 10.46
8" PVC
GRAVEL
4"x4" WOOD BORDER
ELECTRIC BOX
SEWER STUBOUT
RIGHT OF WAY LINE
STOP BAR
SANITARY SEWER MANHOLE
N. RIM EL. = 9.15
N. INV. EL. = 1.61
W. INV. EL. = 1.72
STORM INLET
GRATE ELEVATION = 8.63
SE INV. EL. = 6.65
STORM MANHOLE
N. RIM EL. = 9.20
NW INV. EL. = 6.15
15" RCP
TOP OF BERM
E
C-503

PAVING, GRADING AND DRAINAGE PLAN
FOCUS AREA 7 - EASTERN LAKE

⑦

TETRA TECH

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Tim A. Vanderwalker, P.E.
P.E. No. 74415, FL
201 East Pine Street, Suite 1000
Orlando, Florida 32801
Engineering Business No. 2429

DATE ______

MARK	DATE	DESCRIPTION	BY

WALTON COUNTY

WOODWARD, 30A SOUTH
PARKING IMPROVEMENTS

FOCUS AREAS 3 & 7
PAVING, GRADING
AND DRAINAGE PLAN

Project No.:	200-11616-15004
Designed By:	TAV
Drawn By:	HCR
Checked By:	

C-202
Sheet

Bar Measures 1 inch

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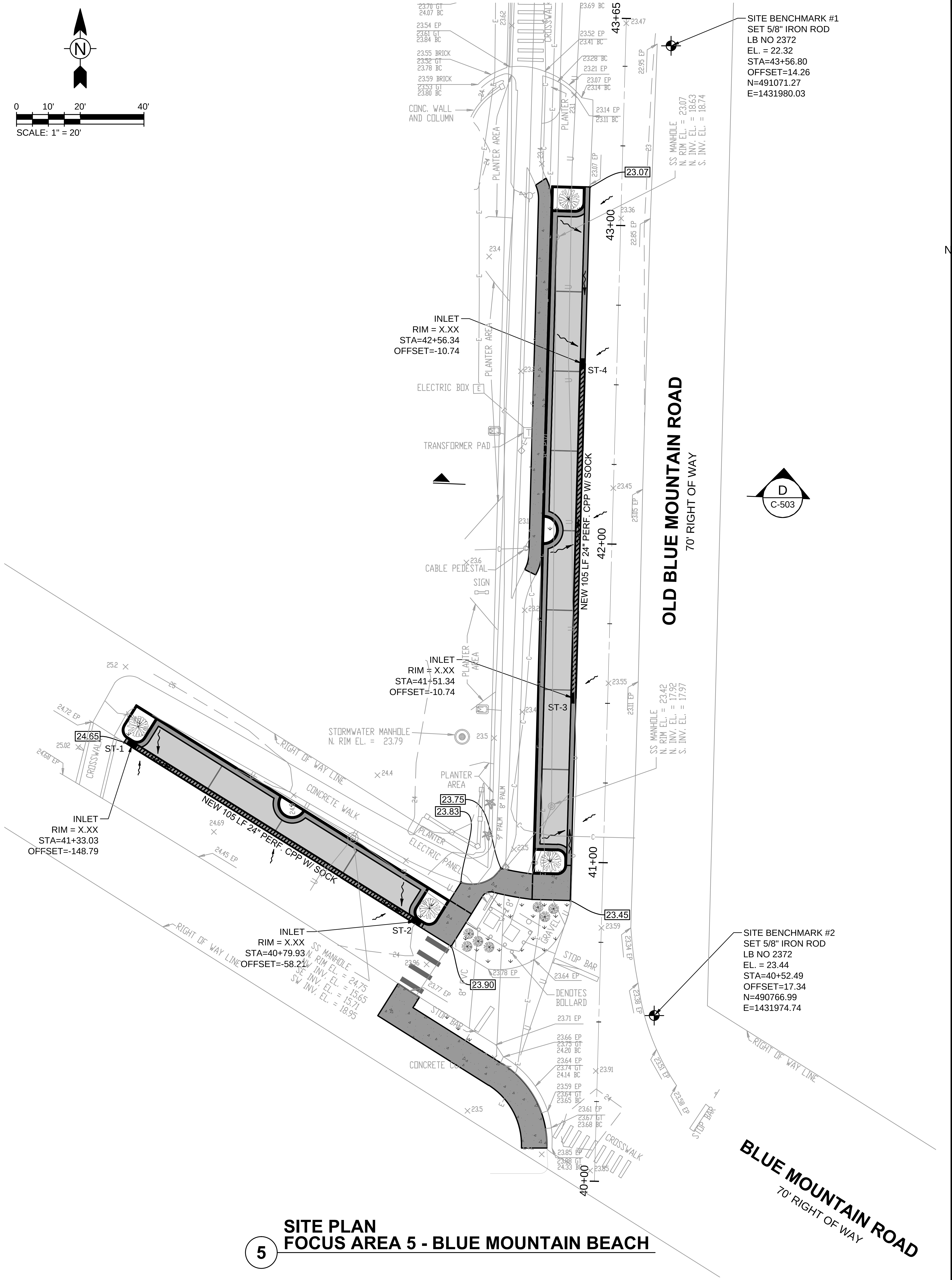
N
0 10' 20' 40'
SCALE: 1" = 20'
OLD BLUE MOUNTAIN ROAD
70' RIGHT OF WAY
BLUE MOUNTAIN ROAD
70' RIGHT OF WAY
43+65
43+00
42+00
41+00
40+00
ST-1
ST-2
ST-3
ST-4
NEW 105 LF 24" PERF. CPP W/ SOCK
NEW 105 LF 24" PERF. CPP W/ SOCK
23.07
23.45
23.75
23.83
23.90
24.65
D
C-503
SS MANHOLE
N. RIM EL. = 23.07
N. INV. EL. = 18.63
S. INV. EL. = 18.74
SS MANHOLE
N. RIM EL. = 23.42
N. INV. EL. = 17.92
S. INV. EL. = 17.97
SS MANHOLE
N. RIM EL. = 24.75
N. INV. EL. = 15.65
S. INV. EL. = 15.71
SW. INV. EL. = 18.95
STORMWATER MANHOLE
N. RIM EL. = 23.79
CONC. WALL AND COLUMN
PLANTER AREA
ELECTRIC BOX
TRANSFORMER PAD
CABLE PEDESTAL
SIGN
ELECTRIC PANEL
CONCRETE WALK
RIGHT OF WAY LINE
CROSSWALK
STOP BAR
GRAVEL
DENOTES BOLLARD
8" PALM
9" PALM

SITE BENCHMARK #1
SET 5/8" IRON ROD
LB NO 2372
EL. = 22.32
STA=43+56.80
OFFSET=14.26
N=491071.27
E=1431980.03

SITE BENCHMARK #2
SET 5/8" IRON ROD
LB NO 2372
EL. = 23.44
STA=40+52.49
OFFSET=17.34
N=490766.99
E=1431974.74

INLET
RIM = X.XX
STA=42+56.34
OFFSET=-10.74

INLET
RIM = X.XX
STA=41+51.34
OFFSET=-10.74

INLET
RIM = X.XX
STA=41+33.03
OFFSET=-148.79

INLET
RIM = X.XX
STA=40+79.93
OFFSET=-58.21

5 SITE PLAN
FOCUS AREA 5 - BLUE MOUNTAIN BEACH

TETRA TECH
www.tetratech.com
201 EAST PINE STREET, SUITE 1000
ORLANDO, FLORIDA 32801
TEL: (407) 839-3955 FAX: (407) 839-3790

NOT FOR CONSTRUCTION

Tim A. Vanderwalker, P.E.
P.E. No. 74415, FL
201 East Pine Street, Suite 1000
Orlando, Florida 32801
Engineering Business No. 2429

DATE

MARK	DATE	DESCRIPTION	BY

WALTON COUNTY

WOODWARD, 30A SOUTH
PARKING IMPROVEMENTS

FOCUS AREA 5
PAVING, GRADING AND DRAINAGE PLAN

Project No.:	200-11616-15004
Designed By:	TAV
Drawn By:	HCR
Checked By:	

C-203
Sheet

Bar Measures 1 inch

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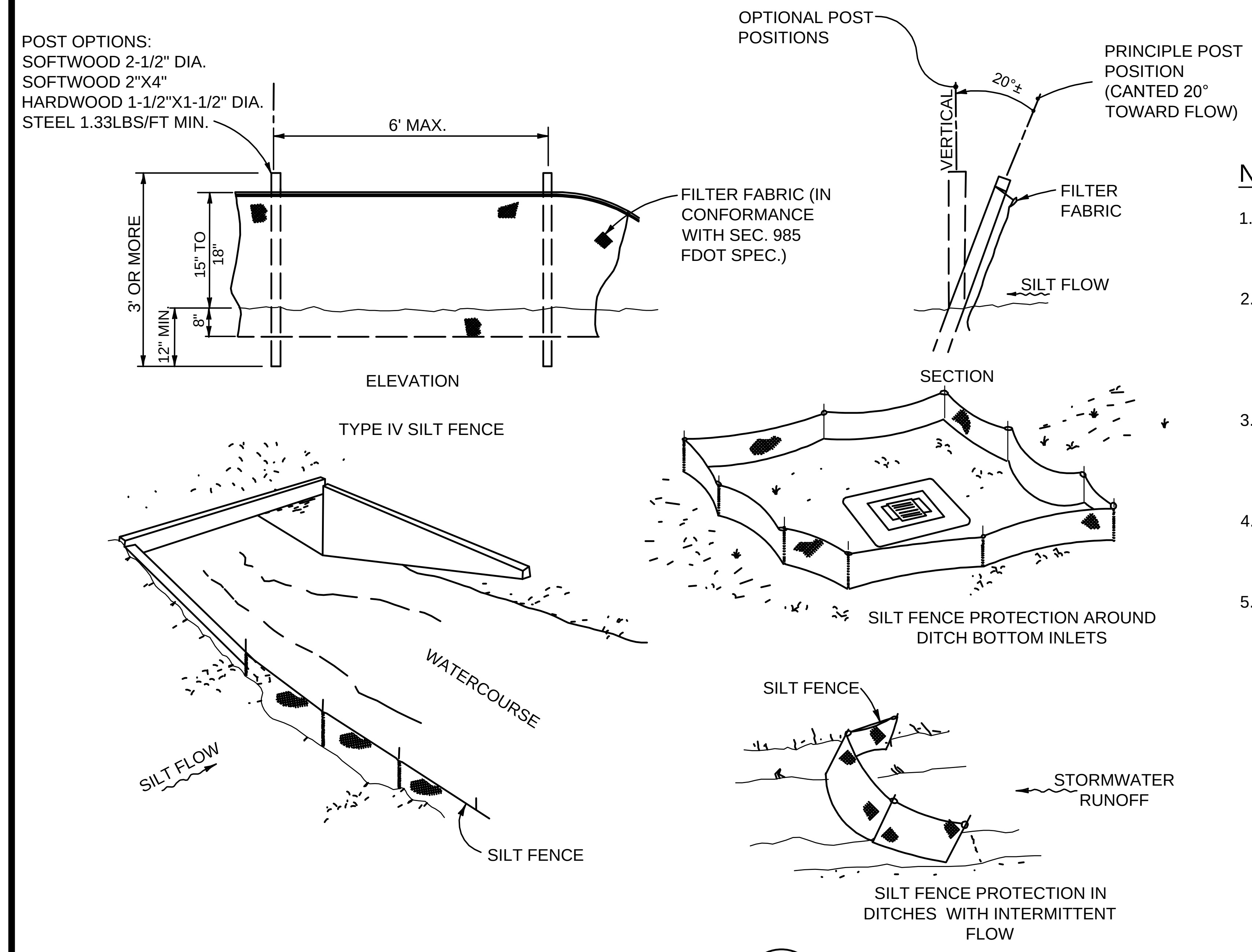
SILT FENCE (PER FDOT INDEX #102)

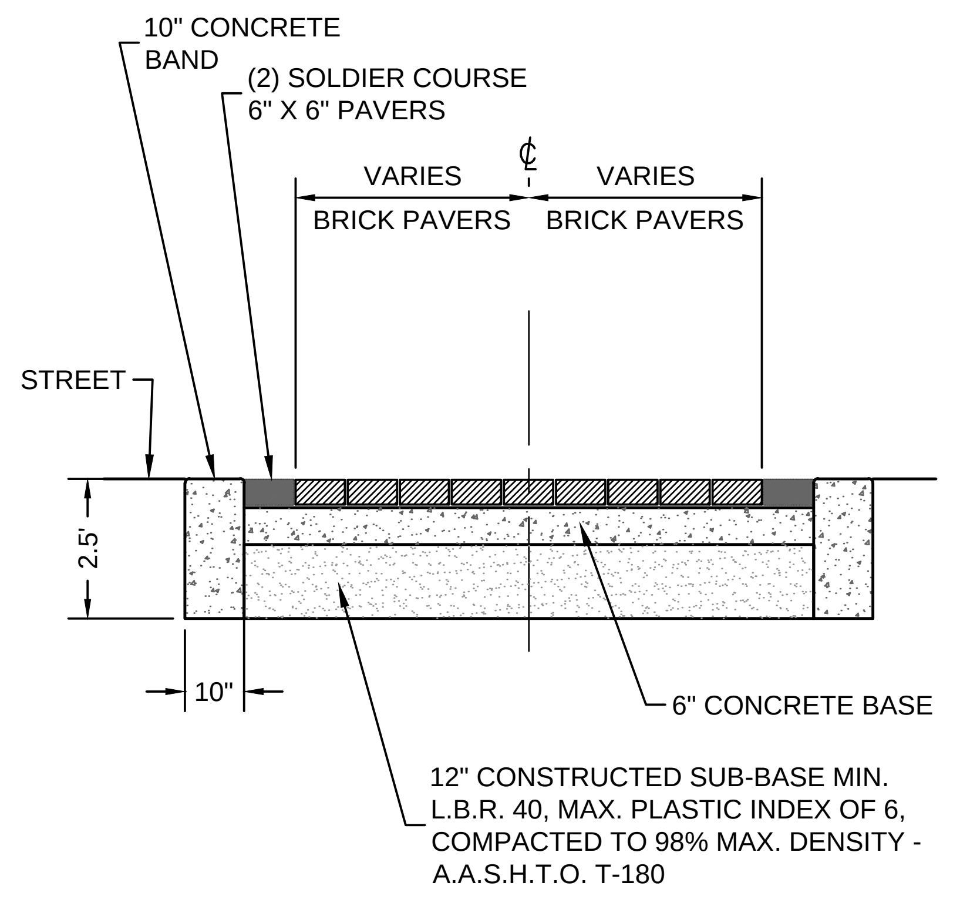

POST OPTIONS:
SOFTWOOD 2-1/2" DIA.
SOFTWOOD 2"X4"
HARDWOOD 1-1/2"X1-1/2" DIA.
STEEL 1.33LBS/FT MIN.
6' MAX.
3' OR MORE
15" TO 18"
12" MIN.
8"
FILTER FABRIC (IN CONFORMANCE WITH SEC. 985 FDOT SPEC.)
ELEVATION
OPTIONAL POST POSITIONS
VERTICAL
20°±
PRINCIPLE POST POSITION (CANTED 20° TOWARD FLOW)
FILTER FABRIC
SILT FLOW
SECTION
TYPE IV SILT FENCE
WATERCOURSE
SILT FLOW
SILT FENCE
SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS
SILT FENCE
STORMWATER RUNOFF
SILT FENCE PROTECTION IN DITCHES WITH INTERMITTENT FLOW

NOTES FOR SILT FENCES

1. TYPE III SILT FENCE TO BE USED AT MOST LOCATIONS. WHERE USED IN DITCHES, THE SPACING FOR TYPE III SILT FENCE SHALL BE IN ACCORDANCE WITH CHART I, SHEET I.
2. TYPE IV SILT FENCE TO BE USED WHERE LARGE SEDIMENT LOADS ARE ANTICIPATED. SUGGESTED USE IS WHERE FILL SLOPE IS 1:2 OR STEEPER AND LENGTH OF SLOPE EXCEEDS 25 FEET. AVOID WHERE THE DETAINED WATER MAY BACK INTO TRAVEL LANES OR OFF THE RIGHT OF WAY.
3. DO NOT CONSTRUCT SILT FENCES ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.
4. WHERE USED AS SLOPE PROTECTION, SILT FENCE IS TO BE CONSTRUCTED ON 0% LONGITUDINAL GRADE TO AVOID CHANNELIZING RUNOFF ALONG THE LENGTH OF THE FENCE.
5. SILT FENCE TO BE PAID UNDER THE CONTRACT UNIT PRICE FOR STACKED SILT FENCE, (LF).

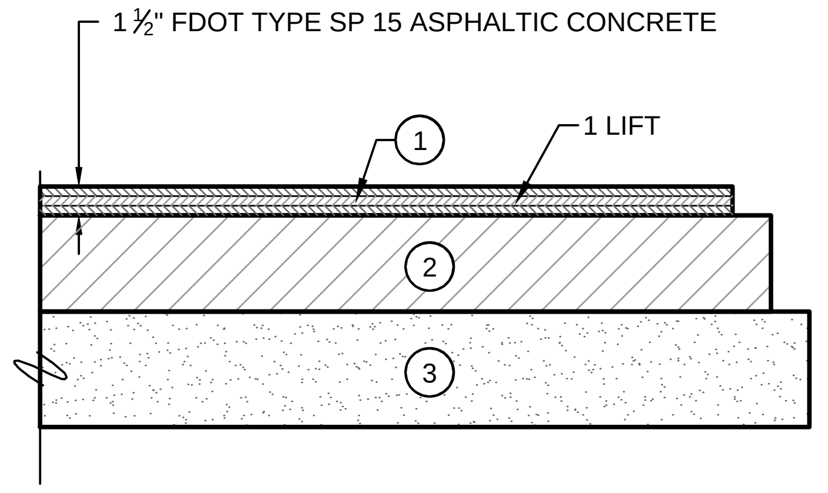
1 **DETAIL**
SCALE: NTS

TYPICAL BRICK PAVERS (BASE BID)


10" CONCRETE BAND
(2) SOLDIER COURSE 6" X 6" PAVERS
VARIES
BRICK PAVERS
℄
VARIES
BRICK PAVERS
STREET
2.5'
10"
6" CONCRETE BASE
12" CONSTRUCTED SUB-BASE MIN. L.B.R. 40, MAX. PLASTIC INDEX OF 6, COMPACTED TO 98% MAX. DENSITY - A.A.S.H.T.O. T-180

2 **DETAIL**
SCALE: NTS

TYPICAL ASPHALT PAVEMENT (ADDITIVE ALTERNATE)


1 ½" FDOT TYPE SP 15 ASPHALTIC CONCRETE
1 LIFT
①
②
③

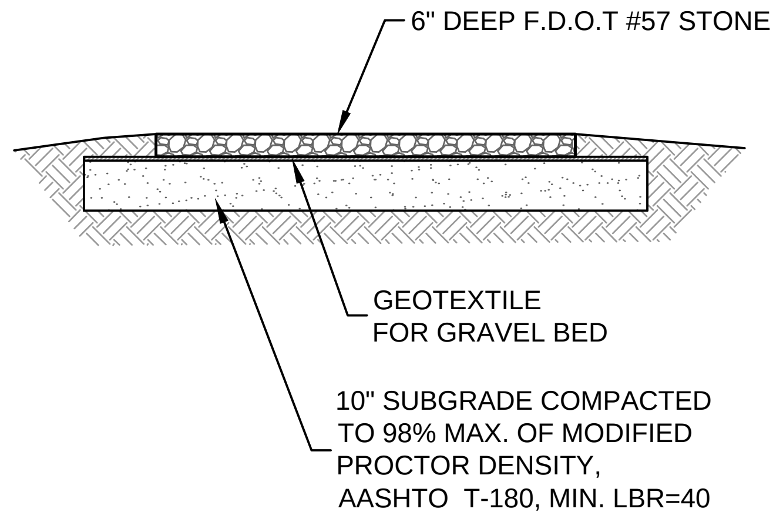
① 1 ½" FDOT TYPE SP 15 ASPHALTIC CONCRETE

② 8" GRADED AGGREGATE BASE, COMPACTED TO AT LEAST 98% OF MODIFIED PROCTOR (ASTM D-1557, AASHTO T-180) MAXIMUM DRY DENSITY VALUE.

③ 8" STABILIZED SUBGRADE MINIMUM LBR OF 40.

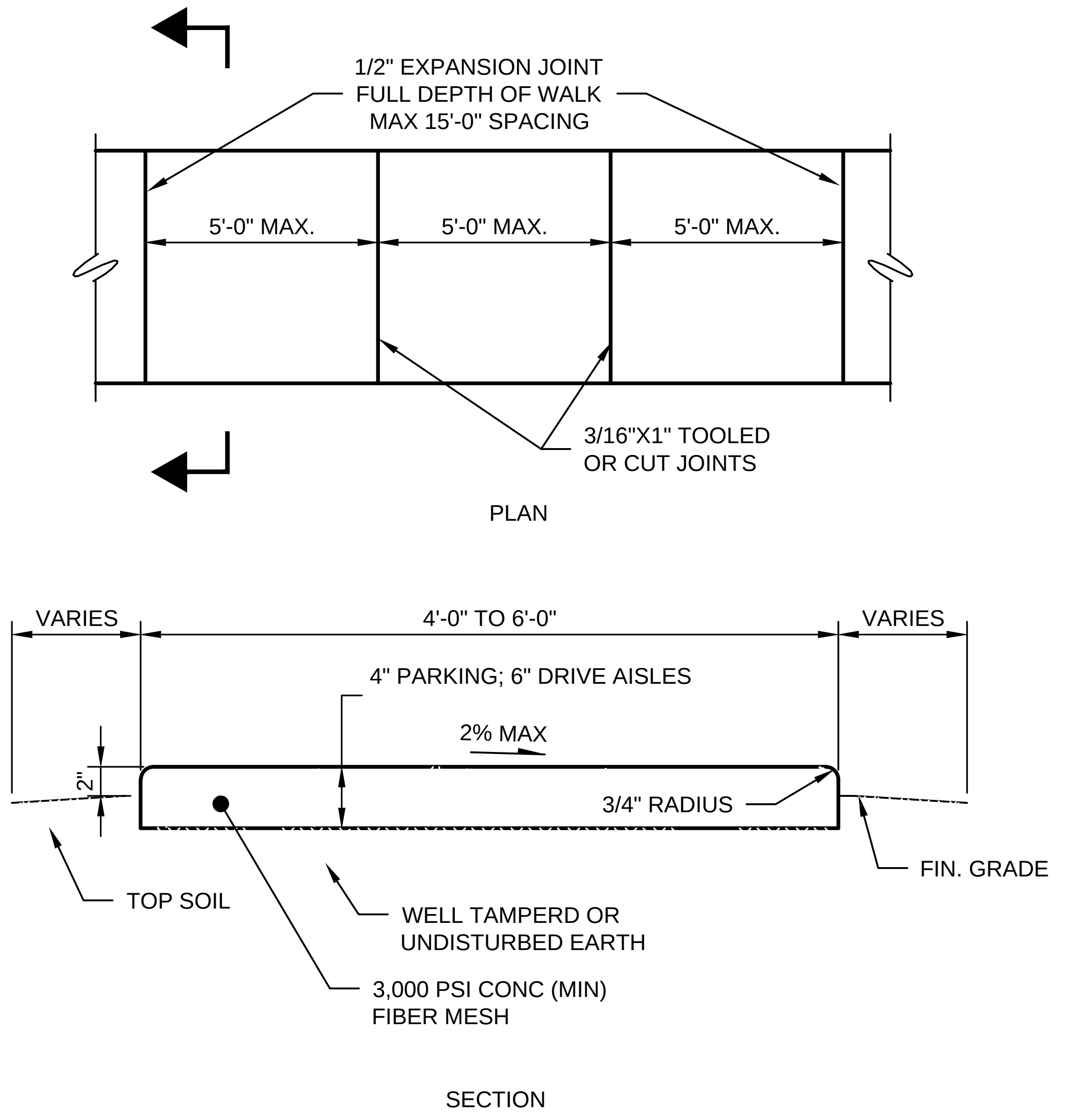
3 **DETAIL**
SCALE: NTS

STABILIZED GRAVEL


6" DEEP F.D.O.T #57 STONE
GEOTEXTILE FOR GRAVEL BED
10" SUBGRADE COMPACTED TO 98% MAX. OF MODIFIED PROCTOR DENSITY, AASHTO T-180, MIN. LBR=40

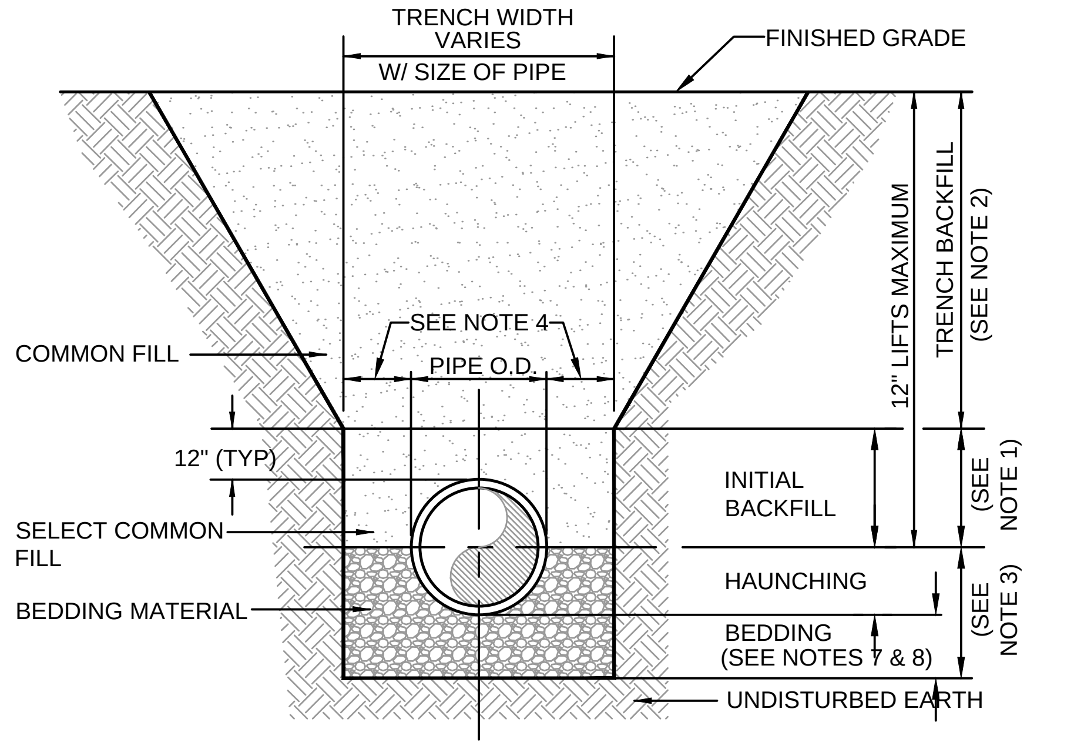
4 **DETAIL**
SCALE: NTS

TYPICAL SIDEWALK


1/2" EXPANSION JOINT FULL DEPTH OF WALK MAX 15'-0" SPACING
5'-0" MAX.
5'-0" MAX.
5'-0" MAX.
3/16"X1" TOOLED OR CUT JOINTS
PLAN
VARIES
4'-0" TO 6'-0"
VARIES
4" PARKING; 6" DRIVE AISLES
2% MAX
2"
3/4" RADIUS
TOP SOIL
WELL TAMPERED OR UNDISTURBED EARTH
FIN. GRADE
3,000 PSI CONC (MIN) FIBER MESH
SECTION

5 **DETAIL**
SCALE: NTS

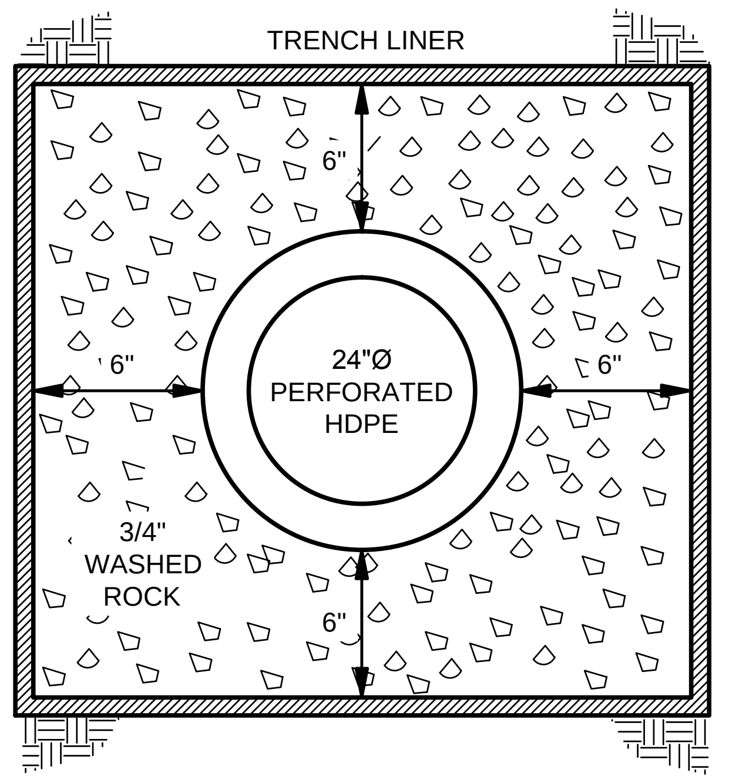
TYPE A BEDDING AND TRENCHING


TRENCH WIDTH VARIES W/ SIZE OF PIPE
FINISHED GRADE
COMMON FILL
SEE NOTE 4
PIPE O.D.
12" (TYP)
SELECT COMMON FILL
BEDDING MATERIAL
12" LIFTS MAXIMUM
TRENCH BACKFILL (SEE NOTE 2)
INITIAL BACKFILL
(SEE NOTE 1)
HAUNCHING
BEDDING (SEE NOTES 7 & 8)
(SEE NOTE 3)
UNDISTURBED EARTH

NOTES:
1. INITIAL BACKFILL: SELECT COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. TYPE A BEDDING MATERIAL SHALL CONFORM TO FDOT NO. 57 AGGREGATE.
4. 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (12" MIN) FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER UP TO 12" AND 6" MINIMUM FOR PIPE DIAMETER 16" AND LARGER.
8. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. UTILITIES SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.
9. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES.

6 **DETAIL**
SCALE: NTS

DETAIL TITLE


TRENCH LINER
6"
6"
6"
6"
24"Ø PERFORATED HDPE
3/4" WASHED ROCK

7 **DETAIL**
SCALE: NTS

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NOT FOR CONSTRUCTION

Tim A. Vanderwalker, P.E.
P.E. No. 74415, FL
201 East Pine Street, Suite 1000
Orlando, Florida 32801
Engineering Business No. 2429

DATE

MARK	DATE	DESCRIPTION	BY

WALTON COUNTY

WOODWARD, 30A SOUTH
PARKING IMPROVEMENTS

CIVIL DETAILS

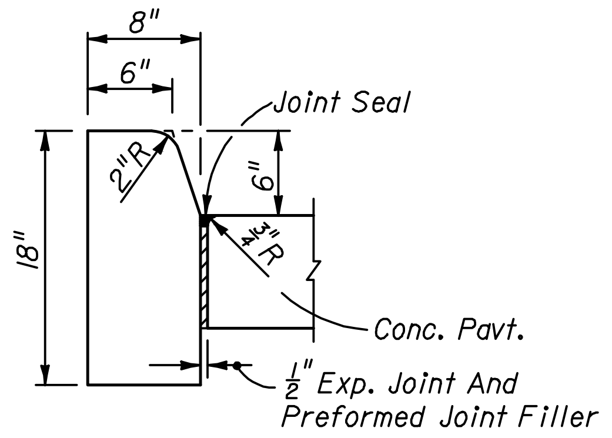
Project No.: 200-11616-15004
Designed By: TAV
Drawn By: HCR
Checked By:

C-501
Sheet

Bar Measures 1 inch

2/23/2016 3:27:54 PM - P:\IER\11616\200-11616-15004\CAD\SHEETFILES\C-501.DWG - DAVALOS, PAULA

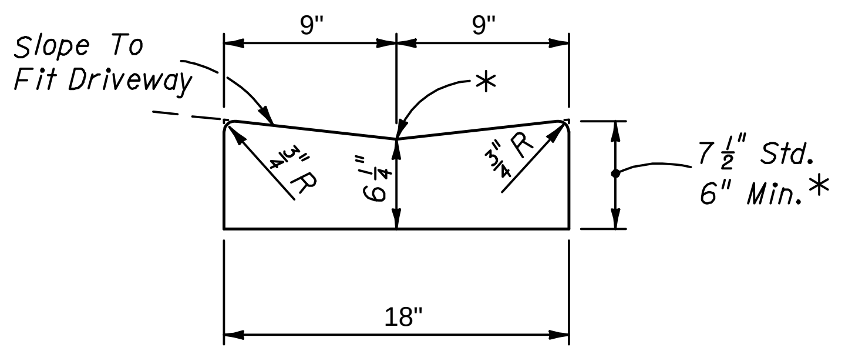
TYPE "D" CURB (AS PER FDOT INDEX 300)


8"
6"
Joint Seal
2"R
6"
18"
$\frac{3}{4}$"R
Conc. Pavt.
$\frac{1}{2}$" Exp. Joint And
Preformed Joint Filler

NOTE:
FOR USE ADJACENT TO CONCRETE OR FLEXIBLE PAVEMENT, CONCRETE SHOWN. EXPANSION JOINT, PREFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURBS AND CONCRETE PAVEMENT ONLY.

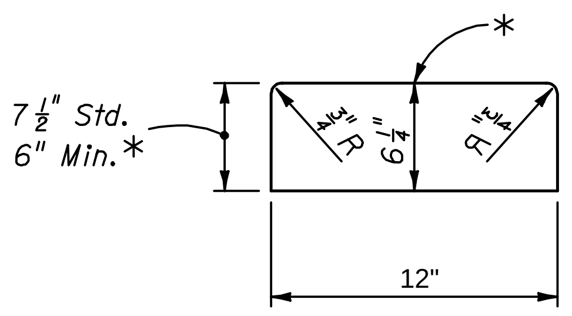
① **DETAIL**
SCALE: NTS

18" CONCRETE DROP CURB


Slope To
Fit Driveway
9"
9"
*
$\frac{3}{4}$"R
$6\frac{1}{4}$"
$\frac{3}{4}$"R
$7\frac{1}{2}$" Std.
6" Min.*
18"

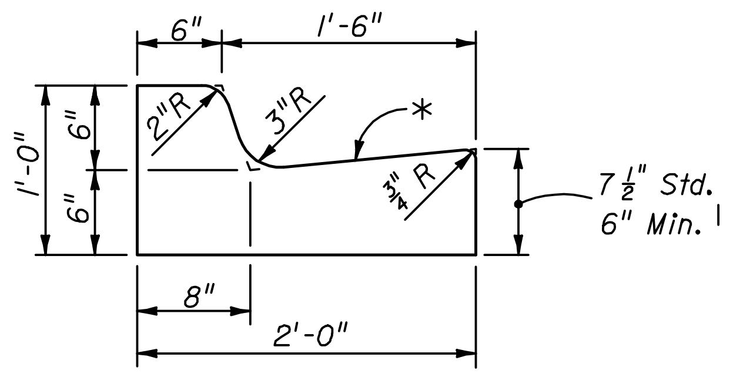
② **DETAIL**
SCALE: NTS

12" CONCRETE RIBBON CURB


*
$7\frac{1}{2}$" Std.
6" Min.*
$\frac{3}{4}$"R
$6\frac{1}{4}$"
$\frac{3}{4}$"R
12"

③ **DETAIL**
SCALE: NTS

TYPE 'F' CURB (FDOT INDEX NO. 300)


6"
1'-6"
1'-0"
6"
6"
2"R
3"R
*
$\frac{3}{4}$" R
$7\frac{1}{2}$" Std.
6" Min.
8"
2'-0"

* *When used on high side of roadways, the cross slope of the gutter shall match the cross slope of the adjacent pavement. The thickness of the lip shall be 6", unless otherwise shown on plans.*

◪ *Rotate entire section so that gutter cross slope matches slope of adjacent circulating roadway pavement.*

NOTE:
FOR USE ADJACENT TO CONCRETE OR FLEXIBLE PAVEMENT, CONCRETE SHOWN. EXPANSION JOINT, PREFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURBS AND CONCRETE PAVEMENT ONLY.

④ **DETAIL**
SCALE: NTS

DETAIL TITLE

⑤ **DETAIL**
SCALE: NTS

DETAIL TITLE

⑥ **DETAIL**
SCALE: NTS

DETAIL TITLE

⑦ **DETAIL**
SCALE: NTS

DETAIL TITLE

⑧ **DETAIL**
SCALE: NTS

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Orlando, Florida 32801
Engineering Business No. 2429

DATE ______

MARK	DATE	DESCRIPTION	BY

WALTON COUNTY
WOODWARD 30A SOUTH
PARKING IMPROVEMENTS
CIVIL DETAILS

Project No.:	200-11616-15004
Designed By:	TAV
Drawn By:	HCR
Checked By:	

C-502
Sheet

Bar Measures 1 inch

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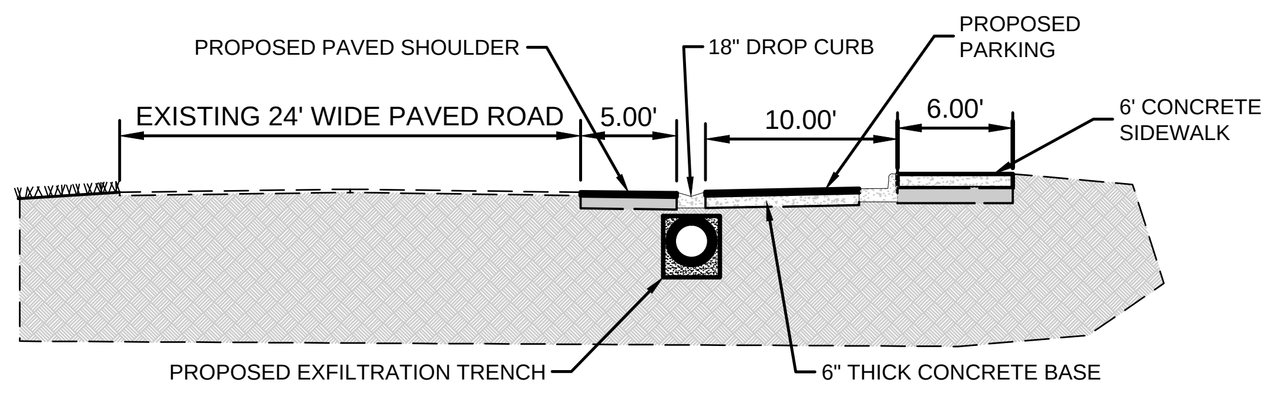
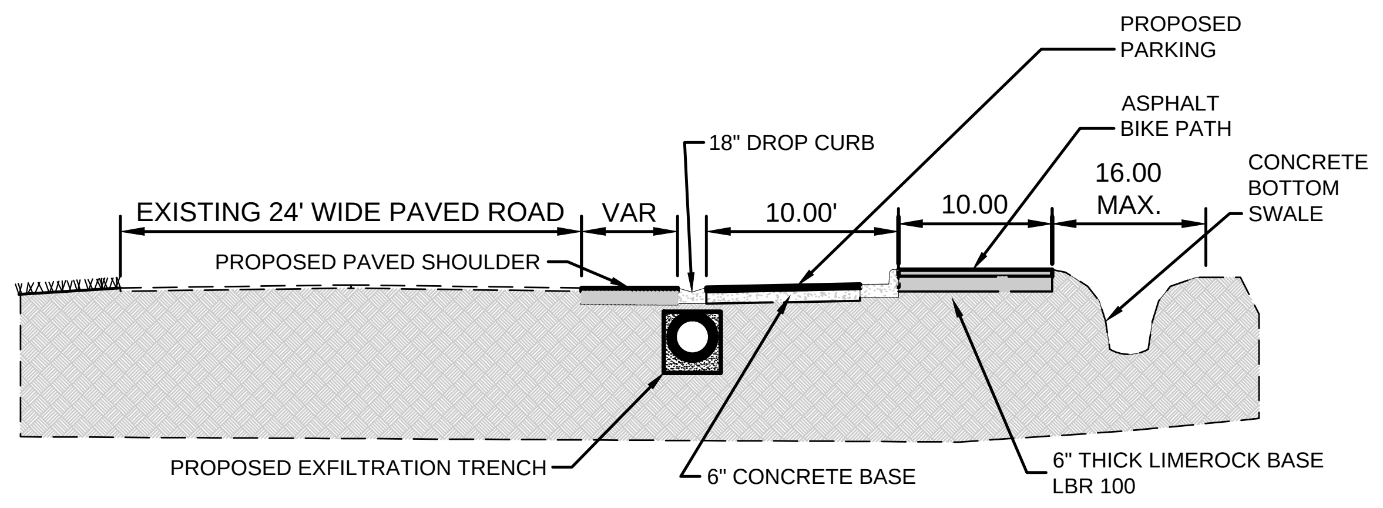
TYPICAL PARKING SECTION (FOCUS AREA 2A - DUNE ALLEN)


PROPOSED PAVED SHOULDER
18" DROP CURB
PROPOSED PARKING
EXISTING 24' WIDE PAVED ROAD
5.00'
10.00'
6.00'
6' CONCRETE SIDEWALK
PROPOSED EXFILTRATION TRENCH
6" THICK CONCRETE BASE

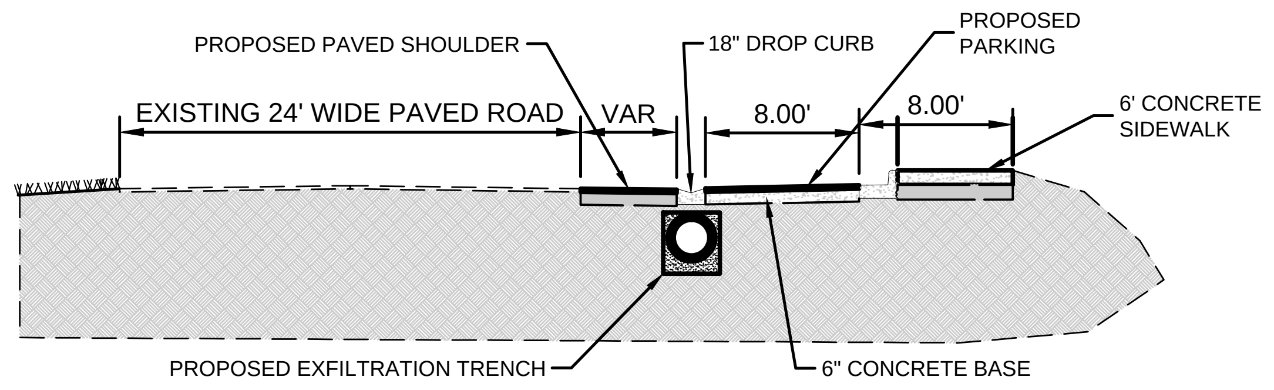
A **DETAIL**
SCALE: NTS

TYPICAL PARKING SECTION (FOCUS AREA 2B - DUNE ALLEN)


PROPOSED PARKING
ASPHALT BIKE PATH
18" DROP CURB
CONCRETE BOTTOM SWALE
16.00 MAX.
EXISTING 24' WIDE PAVED ROAD
VAR
10.00'
10.00
PROPOSED PAVED SHOULDER
PROPOSED EXFILTRATION TRENCH
6" CONCRETE BASE
6" THICK LIMEROCK BASE LBR 100

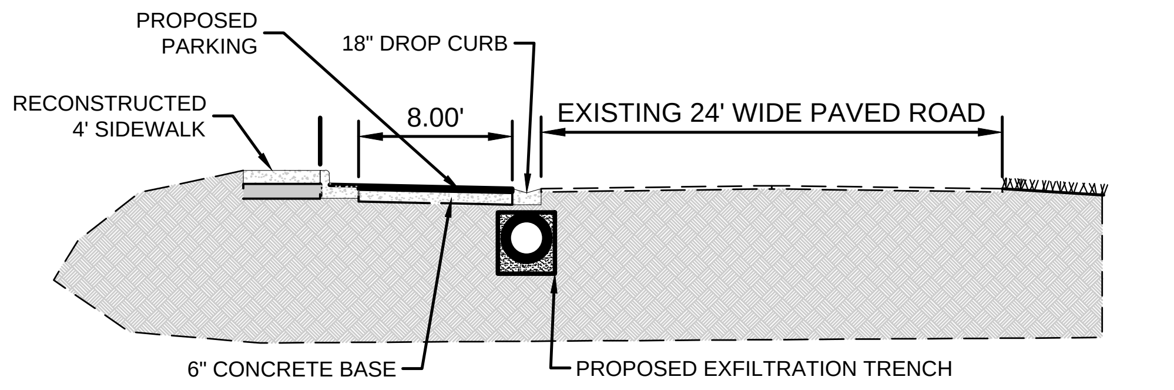
B **DETAIL**
SCALE: NTS

PROPOSED PARKING SECTION (FOCUS AREA 3 - GULF PLACE)


PROPOSED PAVED SHOULDER
18" DROP CURB
PROPOSED PARKING
EXISTING 24' WIDE PAVED ROAD
VAR
8.00'
8.00'
6' CONCRETE SIDEWALK
PROPOSED EXFILTRATION TRENCH
6" CONCRETE BASE

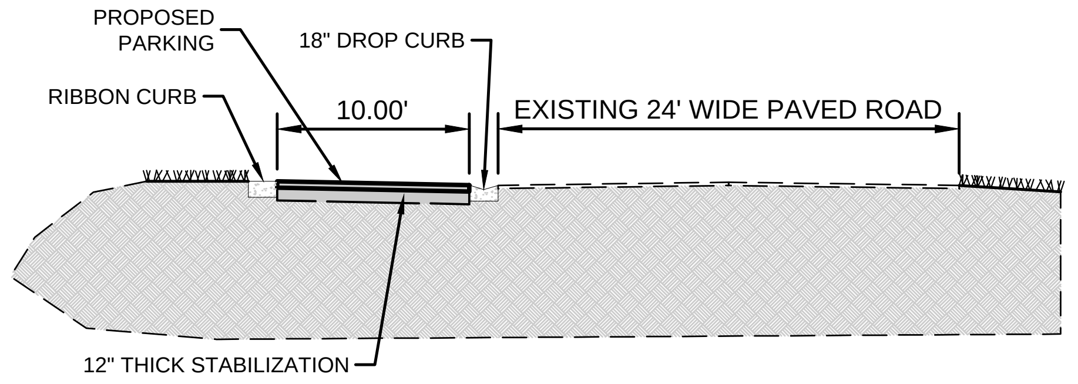
C **DETAIL**
SCALE: NTS

PROPOSED PARKING SECTION (FOCUS AREA 5 - BLUE MOUNTAIN BEACH)


PROPOSED PARKING
18" DROP CURB
RECONSTRUCTED 4' SIDEWALK
8.00'
EXISTING 24' WIDE PAVED ROAD
6" CONCRETE BASE
PROPOSED EXFILTRATION TRENCH

D **DETAIL**
SCALE: NTS

PROPOSED PARKING SECTION (FOCUS AREA 7 - EASTERN LAKE)


PROPOSED PARKING
18" DROP CURB
RIBBON CURB
10.00'
EXISTING 24' WIDE PAVED ROAD
12" THICK STABILIZATION

E **DETAIL**
SCALE: NTS

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DATE

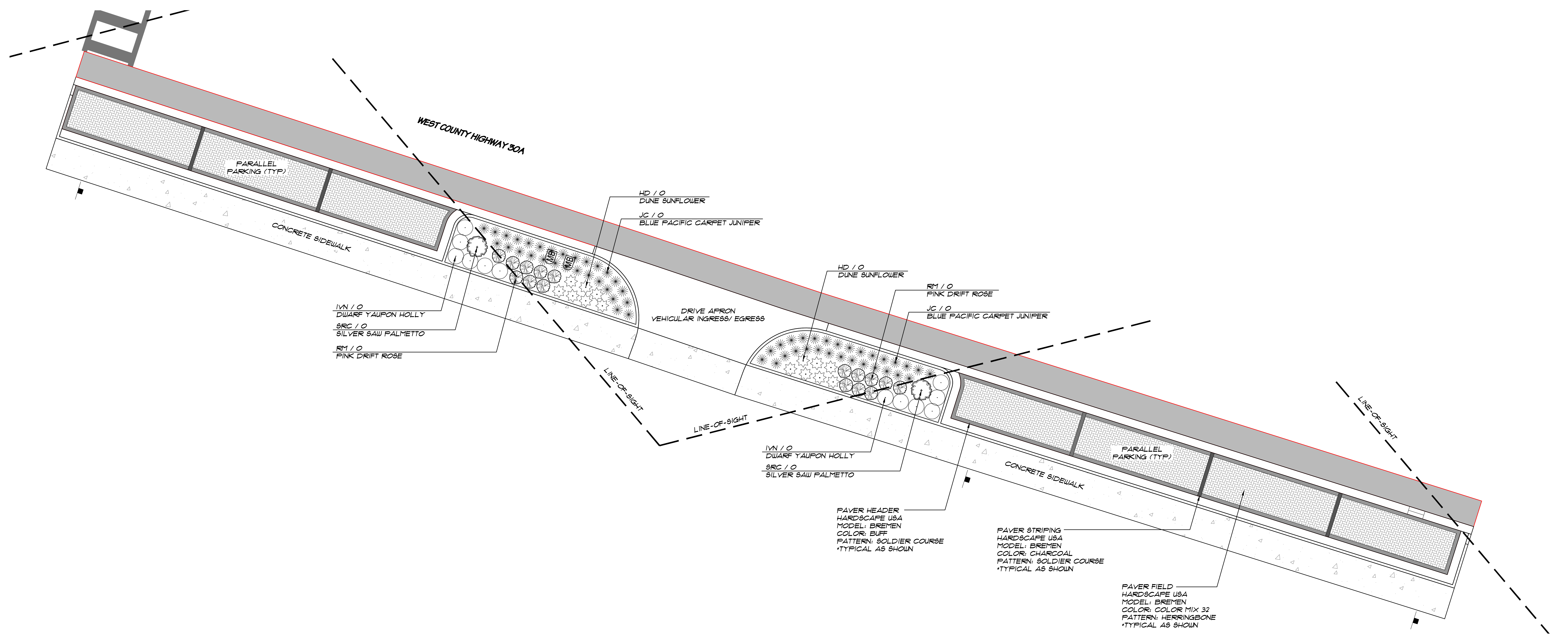
MARK	DATE	DESCRIPTION	BY

WALTON COUNTY
WOODWARD, 30A SOUTH
PARKING IMPROVEMENTS
TYPICAL PARKING
SECTIONS

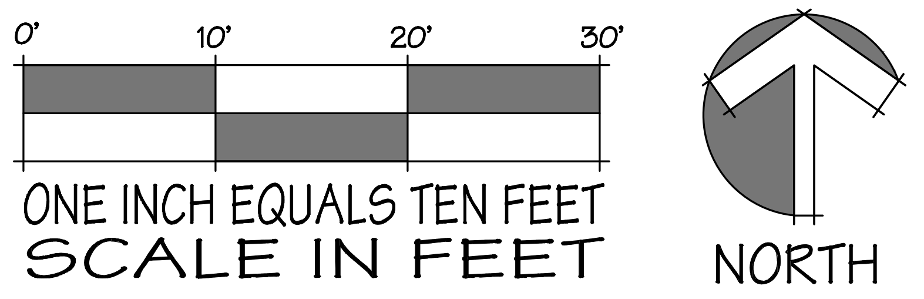
Project No.:	200-11616-15004
Designed By:	TAV
Drawn By:	HCR
Checked By:	

C-503
Sheet

Bar Measures 1 inch


WEST COUNTY HIGHWAY 30A
PARALLEL PARKING (TYP)
CONCRETE SIDEWALK
HD / 0
DUNE SUNFLOWER
JC / 0
BLUE PACIFIC CARPET JUNIPER
IVN / 0
DWARF YAUPON HOLLY
SRC / 0
SILVER SAW PALMETTO
RM / 0
PINK DRIFT ROSE
MB
MB
DRIVE APRON
VEHICULAR INGRESS/ EGRESS
LINE-OF-SIGHT
LINE-OF-SIGHT
LINE-OF-SIGHT
HD / 0
DUNE SUNFLOWER
RM / 0
PINK DRIFT ROSE
JC / 0
BLUE PACIFIC CARPET JUNIPER
IVN / 0
DWARF YAUPON HOLLY
SRC / 0
SILVER SAW PALMETTO
PARALLEL PARKING (TYP)
CONCRETE SIDEWALK
PAVER HEADER
HARDSCAPE USA
MODEL: BREMEN
COLOR: BUFF
PATTERN: SOLDIER COURSE
*TYPICAL AS SHOWN
PAVER STRIPING
HARDSCAPE USA
MODEL: BREMEN
COLOR: CHARCOAL
PATTERN: SOLDIER COURSE
*TYPICAL AS SHOWN
PAVER FIELD
HARDSCAPE USA
MODEL: BREMEN
COLOR: COLOR MIX 32
PATTERN: HERRINGBONE
*TYPICAL AS SHOWN

A FOCUS AREA 2 - PLANTING PLAN


0'
10'
20'
30'
ONE INCH EQUALS TEN FEET
SCALE IN FEET
NORTH

PLANTING NOTES:

1. LOCATE ALL UNDERGROUND UTILITIES, ELECTRICAL WIRING, WATER, SEWER, TELEPHONE, CABLE TV, ETC., PRIOR TO LANDSCAPE OR IRRIGATION INSTALLATION
2. INSTALL AN AUTOMATIC UNDERGROUND DRIP (SHRUBS & GROUNDCOVERS) & LOW TRAJECTORY ROTOR (SODDED AREAS) IRRIGATION SYSTEM TO ENSURE 100% COVERAGE OF ALL PLANTED AND GRASSED AREAS. BUBBLERS SHALL BE PLACED AT EACH NEW TREE LOCATION. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR AN AUTOMATIC, UNDERGROUND IRRIGATION SYSTEM INCLUDING AN IRRIGATION WELL WITH PUMP (IF REQUIRED), LIGHTNING PROTECTION, ELECTRONIC CONTROLLER, MOISTURE SENSING DEVICES, AND ALL OTHER EQUIPMENT REQUIRED BY LOCAL CODES AS NECESSARY FOR A COMPLETE WORKING SYSTEM. THE PROPOSED WELL LOCATION SHALL BE APPROVED BY THE LA AND OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
3. INSTALL ONLY PLANTS GRADED FLORIDA NO.1 OR BETTER AS SET FORTH IN THE FLORIDA DEPARTMENT OF AGRICULTURE 'GRADES AND STANDARDS FOR NURSERY PLANTS" SECOND EDITION FEB. 1998 INCLUDING REVISIONS AND WHICH MEET OR EXCEED THE SIZES INDICATED IN THE PLANTING SCHEDULE AND DETAILS.
4. PLACE PLANTS WITH BEST "FACE" FORWARD. REMOVE ALL SOIL FROM ABOVE THE TOPMOST ROOT AND MEASURE THE DISTANCE BETWEEN THE TOPMOST ROOT AND THE BOTTOM OF THE ROOT BALL. DIG THE HOLE ABOUT 10 PERCENT SHALLOWER THAN THAT DEPTH AND AS WIDE AS POSSIBLE (AT LEAST ONE AND A HALF TIMES THE WIDTH OF THE BALL AND WIDER IN COMPACTED SOILS). ROOT BALL SHOULD BE POSITIONED IN THE HOLE SHALLOWLY ENOUGH THAT THE FINISHED GRADE OF THE BACKFILL SOIL AND LANDSCAPE SOIL IS LOWER THAN THE TOP OF THE ROOT BALL. APPLY MULCH SO IT COVERS THE SIDES OF THE ROOT BALL. WHEN FINISHED PLANTING, THERE SHOULD BE NO SOIL, AND LITTLE OR NO MULCH, OVER THE TOP OF THE ROOT BALL.
5. DO NOT FERTILIZE WHEN HEAVY RAINFALL IS EXPECTED, ESPECIALLY TROPICAL OR FRONTAL WEATHER SYSTEMS. AVOID LEACHING AND SURFACE RUNOFF.
6. .LIMIT WATER-SOLUBLE (QUICK RELEASE) NITROGEN APPLICATIONS TO 0.5 LB./1000 FT2. THIS INCLUDES THE WATER SOLUBLE PART OF SLOW- RELEASE BLENDS. LIMIT TOTAL N TO 1 LB./1000FT2 PER THE URBAN TURF RULE.
7. LIMIT NITROGEN AND PHOSPHATE FERTILIZATION AT ESTABLISHMENT TO ONE TIME 30 DAYS AFTER SEEDING/SODDING. DO NOT ADD N OR P BEFORE INSTALLATION, BUT AMEND SOIL AS NEEDED WITH LIME OR ORGANIC MATTER.
8. ALWAYS LEAVE A RING OF RESPONSIBILITY NEAR WATER BODIES OR IMPERVIOUS SURFACES. ALWAYS USE DEFLECTOR SHIELDS ON BROADCAST OR ROTARY SPREADERS WHEN APPLYING FERTILIZER NEAR WATER OR SIDEWALKS, DRIVEWAYS AND STREETS. SWEEP ALL FERTILIZER LEFT ON IMPERVIOUS AREAS BACK INTO THE VEGETATED AREA.
9. MAKE SURE THE SPREADER/APPLICATION EQUIPMENT IS PROPERLY CALIBRATED AND SET TO DELIVER THE CORRECT AMOUNT OF FERTILIZER TO THE AREA.
10. WHEN FERTILIZING (OTHER THAN WHEN WATERING RESTRICTIONS APPLY), IRRIGATE WITH 1/4 INCH OF WATER FOLLOWING FERTILIZATION TO AVOID THE LOSS OF NITROGEN AND INCREASE UPTAKE EFFICIENCY. IF WATER RESTRICTIONS APPLY, IRRIGATE AS ALLOWED. MORE THAN 1/2 INCH MAY CAUSE NITROGEN TO BE LEACHED PAST THE ROOT ZONE.
11. USE FE AND/OR MN INSTEAD OF N TO ENHANCE TURFGRASS COLOR ON SOILS HAVING A PH GREATER THAN 7.0, ESPECIALLY DURING TIMES OF ENHANCED RAINFALL.
12. BACKFILL ALL PLANTING PITS WITH THE FOLLOWING MIXTURE ± ½ ONSITE SOIL, ½ CLEAN FRIABLE TOPSOIL. SUBMIT TOPSOIL SAMPLE AND SOIL TEST ANALYSIS FOR APPROVAL BY LANDSCAPE ARCHITECT, (SEE PLANTING DETAILS). REMOVE EXCESS SOIL EXCAVATED FROM PLANT PIT FROM THE SITE OR DISTRIBUTE ON-SITE AS DIRECTED BY L.A.
13. MULCH PLANTING BEDS TO A MINIMUM 2 ½" COMPACTED THICKNESS WITH AN APPROVED ORGANIC MULCH, IE. PINE STRAW, DO NOT COVER TOP OF ROOTBALL.
14. VERIFY ALL QUANTITIES IN THE PLANTING SCHEDULE AND INSTALL ALL PLANTS AND MATERIALS AS INDICATED IN THE PLAN. PROVIDE COMPOSITE UNIT PRICES FOR EACH PLANT, WHICH INCLUDE ALL OTHER INCIDENTAL MATERIALS, (I.E. MULCH, FERTILIZER, TOPSOIL, LABOR, ETC.)
15. NOTIFY THE OWNER AND LANDSCAPE ARCHITECT OF ANY UNFORSEEN CONDITIONS, I.E., COMPACTED SOIL / SUBGRADE, POOR DRAINAGE, UNCONSOLIDATED SOIL, EROSION, UTITLTY CONFLICTS, EXCESSIVE SUN OR SHADE, ETC., PRIOR TO PROCEEDING WITH LANDSCAPE INSTALLATION.
16. GUARANTEE ALL PLANTS FOR ONE YEAR.
17. ALL PLANTS, MATERIALS AND WORKMANSHIP ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT AND OWNER.
18. DO NOT MAKE SUBSTITUTIONS OR REVISIONS, ANY REVISION OR MODIFICATIONS TO THE LANDSCAPE PLAN MUST HAVE PRIOR APPROVAL BY THE THE LANDSCAPE ARCHITECT & OWNER
19. MAINTAIN ALL PLANTING INCLUDING WATERING, MOWING, MULCHING, WEED, PEST CONTROL, ETC. UNTIL FINAL ACCEPTANCE BY THE OWNER.
20. THESE DRAWING DOCUMENTS AND ALL CONTENTS ARE THE PROPERTY OF HORTON LAND WORKS, ALL RIGHTS ARE RESERVED. UNAUTHORIZED USE OR REPRODUCTION, IN PART OR WHOLE, FOR ANY PURPOSE IS UNLAWFUL AND PROHIBITED EXCEPT BY EXPRESS WRITTEN CONSENT.

Table 1: Sufficiency concentration ranges for selected macro and micro-nutrients in turf grass tissue

P	K	Ca	Mg	Fe	Cu	Mn	Zn	B
	Percent (%)				ppm			
0.15 - 0.50	1.00 - 3.00	0.5 - 1.0	0.20 - 0.50	50 - 250	5-30	25 - 100	20 - 250	5-20

Table 2: Sufficiency ranges of tissue N concentration for selected lawn turf grasses

St. Augustine	Zoysia	Bermuda	Centipede	Bahia	Rye
N (%) 2.0 - 3.0	2.0 - 3.0	2.5 - 3.5	1.5 - 2.5	1.5 - 2.5	3.5 - 5.5

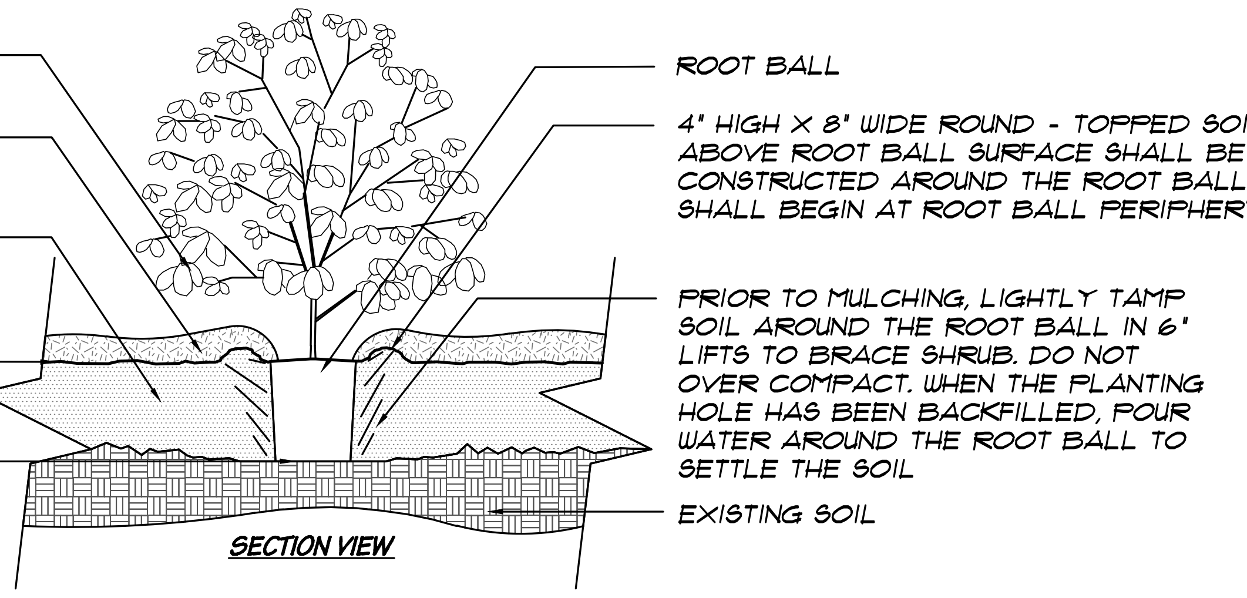
PLANTING SCHEDULE:

REFER TO THE ORTHO PROBLEM SOLVER PUBLISHED BY THE MONSANTO CO. & ORTHO INFORMATION SERVICES, SAN FRANCISCO, CA (800) 225-2883 FOR RECOMMENDED CONTROL TREATMENTS FOR SPECIFIC PESTS AND DISEASES IDENTIFIED IN THE MAINTENANCE GUIDELINES OR CONTACT THE WALTON COUNTY EXTENSION SERVICE OF IFAS.

ABBREVIATIONS: A.S. - AS SHOWN B&B - BALLED AND BURLAPPED CAL. - CALIPER C.G.S. - CONTAINER GROWN STOCK D.S.R. - DOUBLE STAGGERED ROW HT - HEIGHT O.C. - ON CENTER

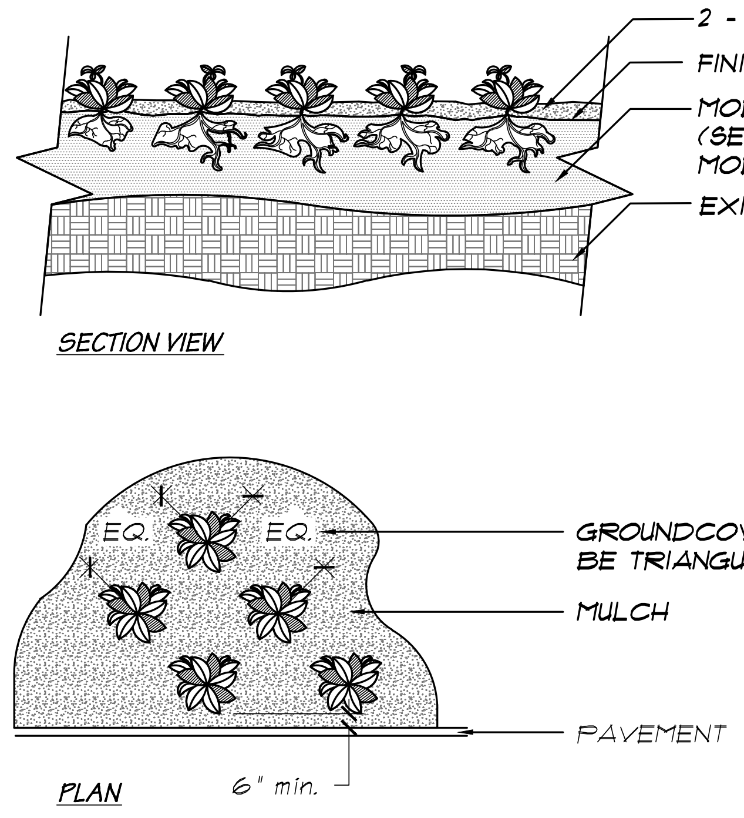
SYMBOL	QUANTITY	BOTANICAL NOMENCLATURE	COMMON NAME	SPACING & SIZE
SHRUBS				
IVN	0	ILEX VOMITORIA 'NANA'	DWARF YAUPON HOLLY	A.S., 3 GAL.
SRC	0	SERENOA REPENS 'CINEREA'	SILVER SAW PALMETTO	A.S., 3 GAL.
GROUNDCOVERS AND VINES				
HD	0	***HELIANTHUS DEBILIS	***DUNE SUNFLOWER	A.S., 1 GAL.
JC	0	***JUNIPERUS CONFERTA 'BLUE PACIFIC'	***BLUE PACIFIC SHORE JUNIPER	A.S., 3 GAL.
RM	0	***ROSA X MEIJOCOS	***PINK DRIFT ROSE	A.S., 3 GAL.

NOTE:
***** SYMBOL INDICATES PLANTS WHICH HAVE A NORMAL HABIT OF GROWTH WITH A HEIGHT OF LESS THAN 2 FEET. PLANTING IN THESE AREAS SHALL BE MONITORED BY THE OWNER AND MAINTENANCE PROVIDER TO ENSURE THAT THESE PLANTS ARE MANAGED AND PRUNED IF NECESSARY IN ORDER NOT TO EXCEED A 2FT MAXIMUM HEIGHT**


SHRUB
4" LAYER OF MULCH. NO MORE THAN 1" OF MULCH ON TOP OF ROOT BALL. (SEE SPECIFICATIONS FOR MULCH)
MODIFIED SOIL. DEPTH VARIES. (SEE SPECIFICATIONS FOR SOIL MODIFICATION)
FINISHED GRADE
ROOT BALL RESTS ON EXISTING OR RECOMPACTED SOIL
ROOT BALL
4" HIGH X 8" WIDE ROUND - TOPPED SOIL BERM ABOVE ROOT BALL SURFACE SHALL BE CONSTRUCTED AROUND THE ROOT BALL. BERM SHALL BEGIN AT ROOT BALL PERIPHERY
PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND THE ROOT BALL IN 6" LIFTS TO BRACE SHRUB. DO NOT OVER COMPACT. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED, POUR WATER AROUND THE ROOT BALL TO SETTLE THE SOIL
EXISTING SOIL
SECTION VIEW

B SHRUB PLANTING DETAIL

N.T.S.


2 - 3" LAYER OF MULCH
FINISHED GRADE
MODIFIED SOIL, DEPTH VAIRES, (SEE SPECS. FOR SOIL MODIFICATION)
EXISTING SOIL
SECTION VIEW
EQ.
EQ.
GROUNDCOVER PLANTS TO BE TRIANGULARLY SPACED
MULCH
PAVEMENT
PLAN
6" min.

Notes:
1- See planting legend for groundcover species, size, and spacing dimension.
2- Small roots (¼" or less) that grow around, up, or down the root ball periphery are considered a normal condition in container production and are acceptable however they should be eliminated at the time of planting. Roots on the periperhy can be removed at the time of planting. (See root ball shaving container detail).
3- Settle soil around root ball of each groundcover prior to mulching.

C GROUNDCOVER PLANTING DETAIL

N.T.S.

TETRA TECH
www.tetratech.com
201 EAST PINE STREET, SUITE 1000
ORLANDO, FLORIDA 32801
TEL: (407) 839-3955 FAX: (407) 839-3790

REVIEW SET
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FLORIDA LICENSE NO.
CHADWICK D. HORTON - LA 6666971

horton land works
4380 filly lane
destin, fl 32541
850.699.1297

MARK	DATE	DESCRIPTION	BY
	2/16/2016	60% LANDSCAPE ARCHITECTURAL SUBMITTAL	CDH

WALTON COUNTY

WOODWARD, 30A SOUTH
PARKING IMPROVEMENTS

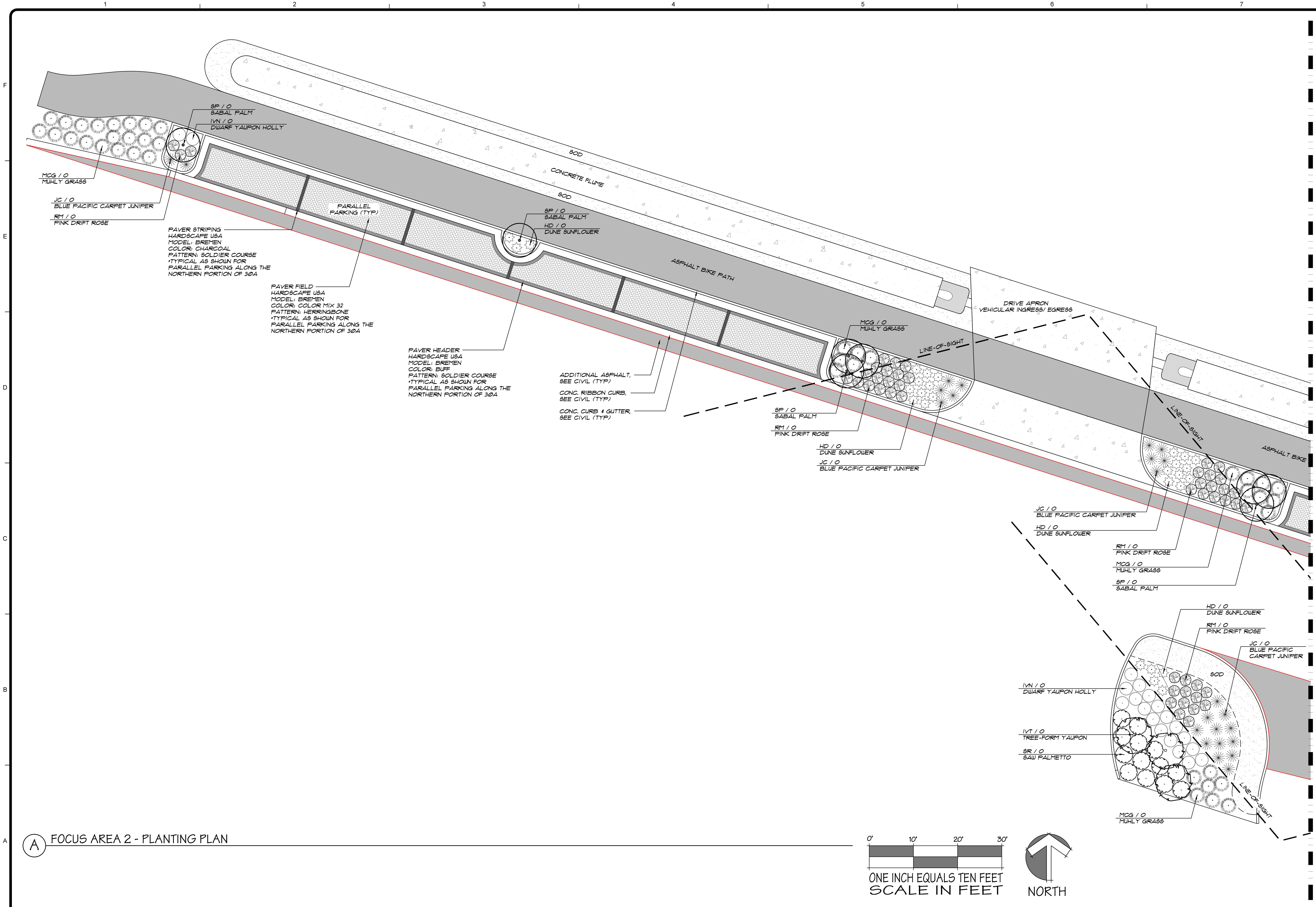
FOCUS AREA 2
DUNE ALLEN
PLANTING PLAN & SCHEDULE

Project No.:	15055
Designed By:	CDH
Drawn By:	CDH
Checked By:	CDH

L101
Sheet 1 OF 8

Bar Measures 1 inch

2/19/2016 11:38:50 AM - /USERS/CHADHORTON/DOCUMENTS/MAGIC BRIEFCASE/HORTON LAND WORKS/2015 PROJECTS/15055 - WALTON COUNTY 30A PARKING & BEAUTIFICATION/LANDSCAPE/L101-2.DWG - CHAD HORTON


1
2
3
4
5
6
7
F
E
D
C
B
A
SP / O
SABAL PALM
IVN / O
DWARF YAUPON HOLLY
MCG / O
MUHLY GRASS
JC / O
BLUE PACIFIC CARPET JUNIPER
RM / O
PINK DRIFT ROSE
PAVER STRIPING
HARDSCAPE USA
MODEL: BREMEN
COLOR: CHARCOAL
PATTERN: SOLDIER COURSE
•TYPICAL AS SHOWN FOR PARALLEL PARKING ALONG THE NORTHERN PORTION OF 30A
PARALLEL PARKING (TYP)
PAVER FIELD
HARDSCAPE USA
MODEL: BREMEN
COLOR: COLOR MIX 32
PATTERN: HERRINGBONE
•TYPICAL AS SHOWN FOR PARALLEL PARKING ALONG THE NORTHERN PORTION OF 30A
PAVER HEADER
HARDSCAPE USA
MODEL: BREMEN
COLOR: BUFF
PATTERN: SOLDIER COURSE
•TYPICAL AS SHOWN FOR PARALLEL PARKING ALONG THE NORTHERN PORTION OF 30A
SOD
CONCRETE FLUME
SOD
SP / O
SABAL PALM
HD / O
DUNE SUNFLOWER
ASPHALT BIKE PATH
ADDITIONAL ASPHALT, SEE CIVIL (TYP)
CONC. RIBBON CURB, SEE CIVIL (TYP)
CONC. CURB & GUTTER, SEE CIVIL (TYP)
DRIVE APRON
VEHICULAR INGRESS/ EGRESS
MCG / O
MUHLY GRASS
LINE-OF-SIGHT
SP / O
SABAL PALM
RM / O
PINK DRIFT ROSE
HD / O
DUNE SUNFLOWER
JC / O
BLUE PACIFIC CARPET JUNIPER
LINE-OF-SIGHT
ASPHALT BIKE
JC / O
BLUE PACIFIC CARPET JUNIPER
HD / O
DUNE SUNFLOWER
RM / O
PINK DRIFT ROSE
MCG / O
MUHLY GRASS
SP / O
SABAL PALM
HD / O
DUNE SUNFLOWER
RM / O
PINK DRIFT ROSE
JC / O
BLUE PACIFIC CARPET JUNIPER
SOD
IVN / O
DWARF YAUPON HOLLY
IVT / O
TREE-FORM YAUPON
SR / O
SAW PALMETTO
LINE-OF-SIGHT
MCG / O
MUHLY GRASS
0'
10'
20'
30'
ONE INCH EQUALS TEN FEET
SCALE IN FEET
NORTH

A FOCUS AREA 2 - PLANTING PLAN

MATCHLINE, SEE L103

TETRA TECH

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201 EAST PINE STREET, SUITE 1000
ORLANDO, FLORIDA 32801
TEL: (407) 839-3955 FAX: (407) 839-3790

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PLANTING PLAN

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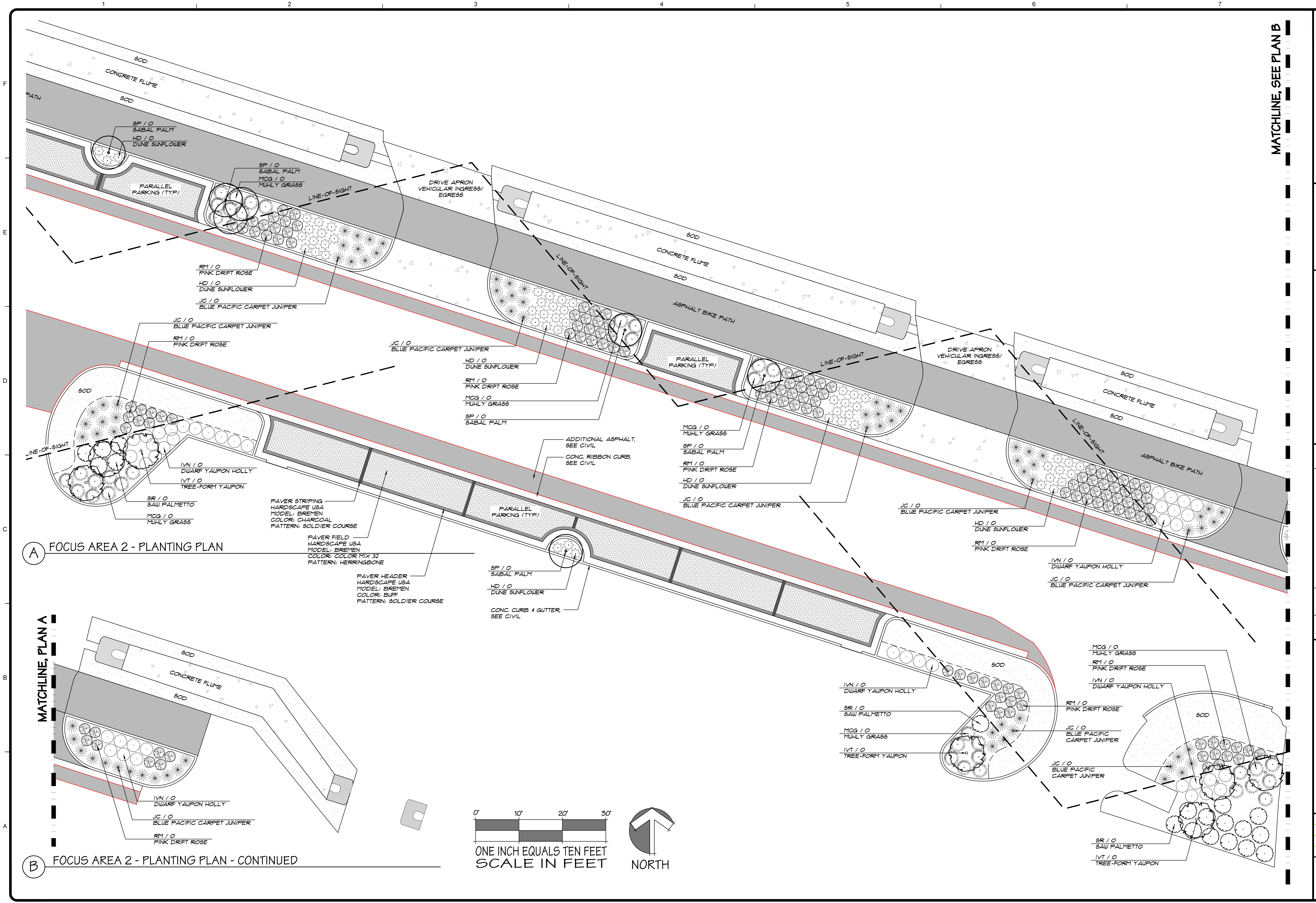
L102

Sheet 2 OF 8

Bar Measures 1 inch


MATCHLINE, SEE PLAN B
SOD
CONCRETE FLUME
SOD
PATH
SP / 0
SABAL PALM
HD / 0
DUNE SUNFLOWER
SP / 0
SABAL PALM
MCG / 0
MUHLY GRASS
PARALLEL
PARKING (TYP)
LINE-OF-SIGHT
DRIVE APRON
VEHICULAR INGRESS/
EGRESS
RM / 0
PINK DRIFT ROSE
HD / 0
DUNE SUNFLOWER
JC / 0
BLUE PACIFIC CARPET JUNIPER
SOD
CONCRETE FLUME
SOD
LINE-OF-SIGHT
ASPHALT BIKE PATH
JC / 0
BLUE PACIFIC CARPET JUNIPER
RM / 0
PINK DRIFT ROSE
JC / 0
BLUE PACIFIC CARPET JUNIPER
HD / 0
DUNE SUNFLOWER
RM / 0
PINK DRIFT ROSE
MCG / 0
MUHLY GRASS
SP / 0
SABAL PALM
PARALLEL
PARKING (TYP)
LINE-OF-SIGHT
DRIVE APRON
VEHICULAR INGRESS/
EGRESS
SOD
CONCRETE FLUME
SOD
LINE-OF-SIGHT
ASPHALT BIKE PATH
SOD
LINE-OF-SIGHT
IVN / 0
DWARF YAUPON HOLLY
IVT / 0
TREE-FORM YAUPON
SR / 0
SAW PALMETTO
MCG / 0
MUHLY GRASS
ADDITIONAL ASPHALT,
SEE CIVIL
CONC. RIBBON CURB,
SEE CIVIL
MCG / 0
MUHLY GRASS
SP / 0
SABAL PALM
RM / 0
PINK DRIFT ROSE
HD / 0
DUNE SUNFLOWER
JC / 0
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SP / 0
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JC / 0
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CARPET JUNIPER
MCG / 0
MUHLY GRASS
RM / 0
PINK DRIFT ROSE
IVN / 0
DWARF YAUPON HOLLY
SOD
SR / 0
SAW PALMETTO
IVT / 0
TREE-FORM YAUPON
MATCHLINE, PLAN A
SOD
CONCRETE FLUME
SOD
IVN / 0
DWARF YAUPON HOLLY
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BLUE PACIFIC CARPET JUNIPER
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PINK DRIFT ROSE
0'
10'
20'
30'
ONE INCH EQUALS TEN FEET
SCALE IN FEET
NORTH

A FOCUS AREA 2 - PLANTING PLAN

B FOCUS AREA 2 - PLANTING PLAN - CONTINUED

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WALTON COUNTY

WOODWARD, 30A SOUTH
PARKING IMPROVEMENTS

FOCUS AREA 2
DUNE ALLEN
PLANTING PLAN

Project No.:	15055
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L103

Sheet 3 OF 8

Bar Measures 1 inch

PLANTING NOTES:

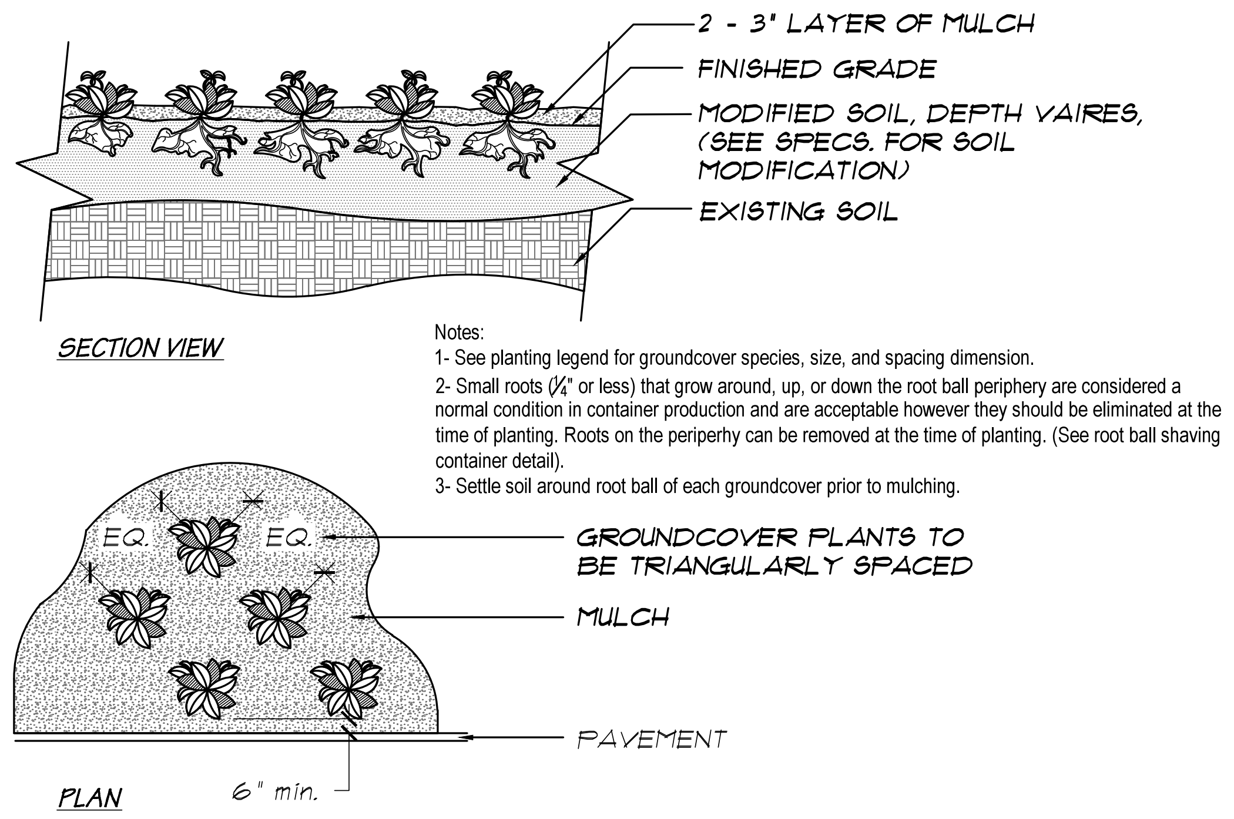
1. LOCATE ALL UNDERGROUND UTILITIES, ELECTRICAL WIRING, WATER, SEWER, TELEPHONE, CABLE TV, ETC., PRIOR TO LANDSCAPE OR IRRIGATION INSTALLATION
2. INSTALL AN AUTOMATIC UNDERGROUND DRIP (SHRUBS & GROUNDCOVERS) & LOW TRAJECTORY ROTOR (SODDED AREAS) IRRIGATION SYSTEM TO ENSURE 100% COVERAGE OF ALL PLANTED AND GRASSED AREAS. BUBBLERS SHALL BE PLACED AT EACH NEW TREE LOCATION. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR AN AUTOMATIC, UNDERGROUND IRRIGATION SYSTEM INCLUDING AN IRRIGATION WELL WITH PUMP (IF REQUIRED), LIGHTNING PROTECTION, ELECTRONIC CONTROLLER, MOISTURE SENSING DEVICES, AND ALL OTHER EQUIPMENT REQUIRED BY LOCAL CODES AS NECESSARY FOR A COMPLETE WORKING SYSTEM. THE PROPOSED WELL LOCATION SHALL BE APPROVED BY THE LA AND OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
3. INSTALL ONLY PLANTS GRADED FLORIDA NO.1 OR BETTER AS SET FORTH IN THE FLORIDA DEPARTMENT OF AGRICULTURE 'GRADES AND STANDARDS FOR NURSERY PLANTS" SECOND EDITION FEB. 1998 INCLUDING REVISIONS AND WHICH MEET OR EXCEED THE SIZES INDICATED IN THE PLANTING SCHEDULE AND DETAILS.
4. PLACE PLANTS WITH BEST "FACE" FORWARD. REMOVE ALL SOIL FROM ABOVE THE TOPMOST ROOT AND MEASURE THE DISTANCE BETWEEN THE TOPMOST ROOT AND THE BOTTOM OF THE ROOT BALL. DIG THE HOLE ABOUT 10 PERCENT SHALLOWER THAN THAT DEPTH AND AS WIDE AS POSSIBLE (AT LEAST ONE AND A HALF TIMES THE WIDTH OF THE BALL AND WIDER IN COMPACTED SOILS). ROOT BALL SHOULD BE POSITIONED IN THE HOLE SHALLOWLY ENOUGH THAT THE FINISHED GRADE OF THE BACKFILL SOIL AND LANDSCAPE SOIL IS LOWER THAN THE TOP OF THE ROOT BALL. APPLY MULCH SO IT COVERS THE SIDES OF THE ROOT BALL. WHEN FINISHED PLANTING, THERE SHOULD BE NO SOIL, AND LITTLE OR NO MULCH, OVER THE TOP OF THE ROOT BALL.
5. DO NOT FERTILIZE WHEN HEAVY RAINFALL IS EXPECTED, ESPECIALLY TROPICAL OR FRONTAL WEATHER SYSTEMS. AVOID LEACHING AND SURFACE RUNOFF.
6. .LIMIT WATER-SOLUBLE (QUICK RELEASE) NITROGEN APPLICATIONS TO 0.5 LB./1000 FT2. THIS INCLUDES THE WATER SOLUBLE PART OF SLOW- RELEASE BLENDS. LIMIT TOTAL N TO 1 LB./1000FT2 PER THE URBAN TURF RULE.
7. LIMIT NITROGEN AND PHOSPHATE FERTILIZATION AT ESTABLISHMENT TO ONE TIME 30 DAYS AFTER SEEDING/SODDING. DO NOT ADD N OR P BEFORE INSTALLATION, BUT AMEND SOIL AS NEEDED WITH LIME OR ORGANIC MATTER.
8. ALWAYS LEAVE A RING OF RESPONSIBILITY NEAR WATER BODIES OR IMPERVIOUS SURFACES. ALWAYS USE DEFLECTOR SHIELDS ON BROADCAST OR ROTARY SPREADERS WHEN APPLYING FERTILIZER NEAR WATER OR SIDEWALKS, DRIVEWAYS AND STREETS. SWEEP ALL FERTILIZER LEFT ON IMPERVIOUS AREAS BACK INTO THE VEGETATED AREA.
9. MAKE SURE THE SPREADER/APPLICATION EQUIPMENT IS PROPERLY CALIBRATED AND SET TO DELIVER THE CORRECT AMOUNT OF FERTILIZER TO THE AREA.
10. WHEN FERTILIZING (OTHER THAN WHEN WATERING RESTRICTIONS APPLY), IRRIGATE WITH 1/4 INCH OF WATER FOLLOWING FERTILIZATION TO AVOID THE LOSS OF NITROGEN AND INCREASE UPTAKE EFFICIENCY. IF WATER RESTRICTIONS APPLY, IRRIGATE AS ALLOWED. MORE THAN 1/2 INCH MAY CAUSE NITROGEN TO BE LEACHED PAST THE ROOT ZONE.
11. USE FE AND/OR MN INSTEAD OF N TO ENHANCE TURFGRASS COLOR ON SOILS HAVING A PH GREATER THAN 7.0, ESPECIALLY DURING TIMES OF ENHANCED RAINFALL.
12. BACKFILL ALL PLANTING PITS WITH THE FOLLOWING MIXTURE ± ½ ONSITE SOIL, ½ CLEAN FRIABLE TOPSOIL. SUBMIT TOPSOIL SAMPLE AND SOIL TEST ANALYSIS FOR APPROVAL BY LANDSCAPE ARCHITECT, (SEE PLANTING DETAILS). REMOVE EXCESS SOIL EXCAVATED FROM PLANT PIT FROM THE SITE OR DISTRIBUTE ON-SITE AS DIRECTED BY L.A.
13. MULCH PLANTING BEDS TO A MINIMUM 2 ½" COMPACTED THICKNESS WITH AN APPROVED ORGANIC MULCH, IE. PINE STRAW, DO NOT COVER TOP OF ROOTBALL.
14. VERIFY ALL QUANTITIES IN THE PLANTING SCHEDULE AND INSTALL ALL PLANTS AND MATERIALS AS INDICATED IN THE PLAN. PROVIDE COMPOSITE UNIT PRICES FOR EACH PLANT, WHICH INCLUDE ALL OTHER INCIDENTAL MATERIALS, (I.E. MULCH, FERTILIZER, TOPSOIL, LABOR, ETC.)
15. NOTIFY THE OWNER AND LANDSCAPE ARCHITECT OF ANY UNFORSEEN CONDITIONS, I.E., COMPACTED SOIL / SUBGRADE, POOR DRAINAGE, UNCONSOLIDATED SOIL, EROSION, UTITLTY CONFLICTS, EXCESSIVE SUN OR SHADE, ETC., PRIOR TO PROCEEDING WITH LANDSCAPE INSTALLATION.
16. GUARANTEE ALL PLANTS FOR ONE YEAR.
17. ALL PLANTS, MATERIALS AND WORKMANSHIP ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT AND OWNER.
18. DO NOT MAKE SUBSTITUTIONS OR REVISIONS, ANY REVISION OR MODIFICATIONS TO THE LANDSCAPE PLAN MUST HAVE PRIOR APPROVAL BY THE THE LANDSCAPE ARCHITECT & OWNER
19. MAINTAIN ALL PLANTING INCLUDING WATERING, MOWING, MULCHING, WEED, PEST CONTROL, ETC. UNTIL FINAL ACCEPTANCE BY THE OWNER.
20. THESE DRAWING DOCUMENTS AND ALL CONTENTS ARE THE PROPERTY OF HORTON LAND WORKS, ALL RIGHTS ARE RESERVED. UNAUTHORIZED USE OR REPRODUCTION, IN PART OR WHOLE, FOR ANY PURPOSE IS UNLAWFUL AND PROHIBITED EXCEPT BY EXPRESS WRITTEN CONSENT.

Table 1: Sufficiency concentration ranges for selected macro and micro-nutrients in turf grass tissue

P	K	Ca	Mg	Fe	Cu	Mn	Zn	B
	Percent (%)				ppm			
0.15 - 0.50	1.00 - 3.00	0.5 - 1.0	0.20 - 0.50	50 - 250	5-30	25 - 100	20 - 250	5-20

Table 2: Sufficiency ranges of tissue N concentration for selected lawn turf grasses

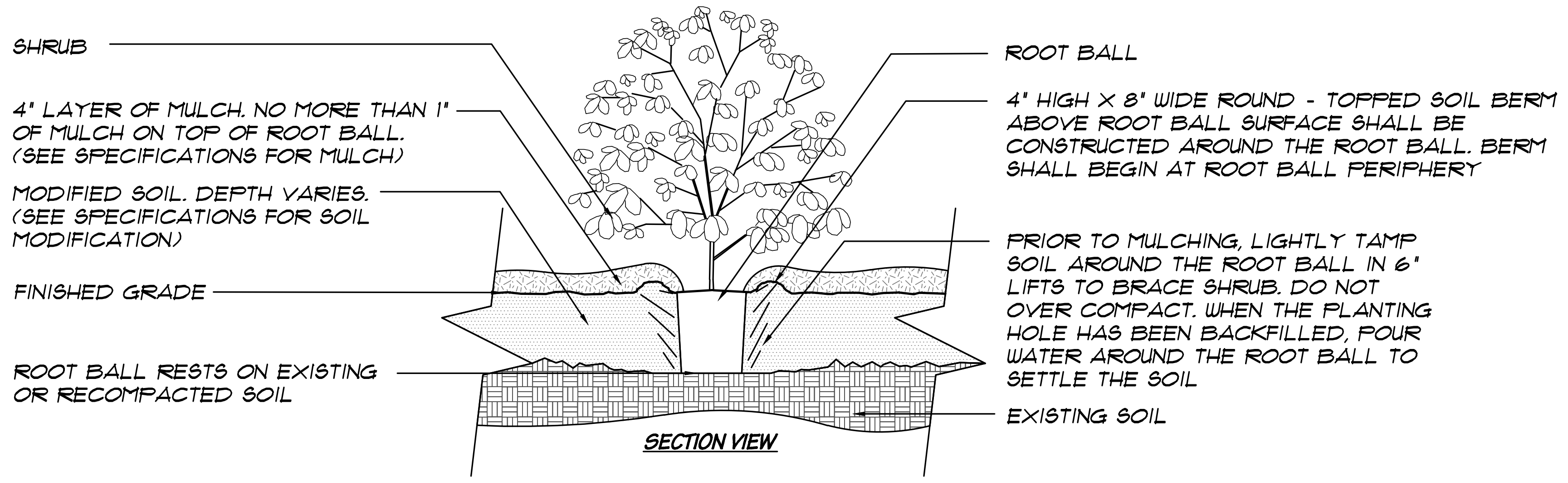
	St. Augustine	Zoysia	Bermuda	Centipede	Bahia	Rye
N (%)	2.0 - 3.0	2.0 - 3.0	2.5 - 3.5	1.5 - 2.5	1.5 - 2.5	3.5 - 5.5


2 - 3" LAYER OF MULCH
FINISHED GRADE
MODIFIED SOIL, DEPTH VAIRES, (SEE SPECS. FOR SOIL MODIFICATION)
EXISTING SOIL
SECTION VIEW
EQ.
EQ.
GROUNDCOVER PLANTS TO BE TRIANGULARLY SPACED
MULCH
PAVEMENT
PLAN
6" min.

Notes:
1- See planting legend for groundcover species, size, and spacing dimension.
2- Small roots (¼" or less) that grow around, up, or down the root ball periphery are considered a normal condition in container production and are acceptable however they should be eliminated at the time of planting. Roots on the periperhy can be removed at the time of planting. (See root ball shaving container detail).
3- Settle soil around root ball of each groundcover prior to mulching.

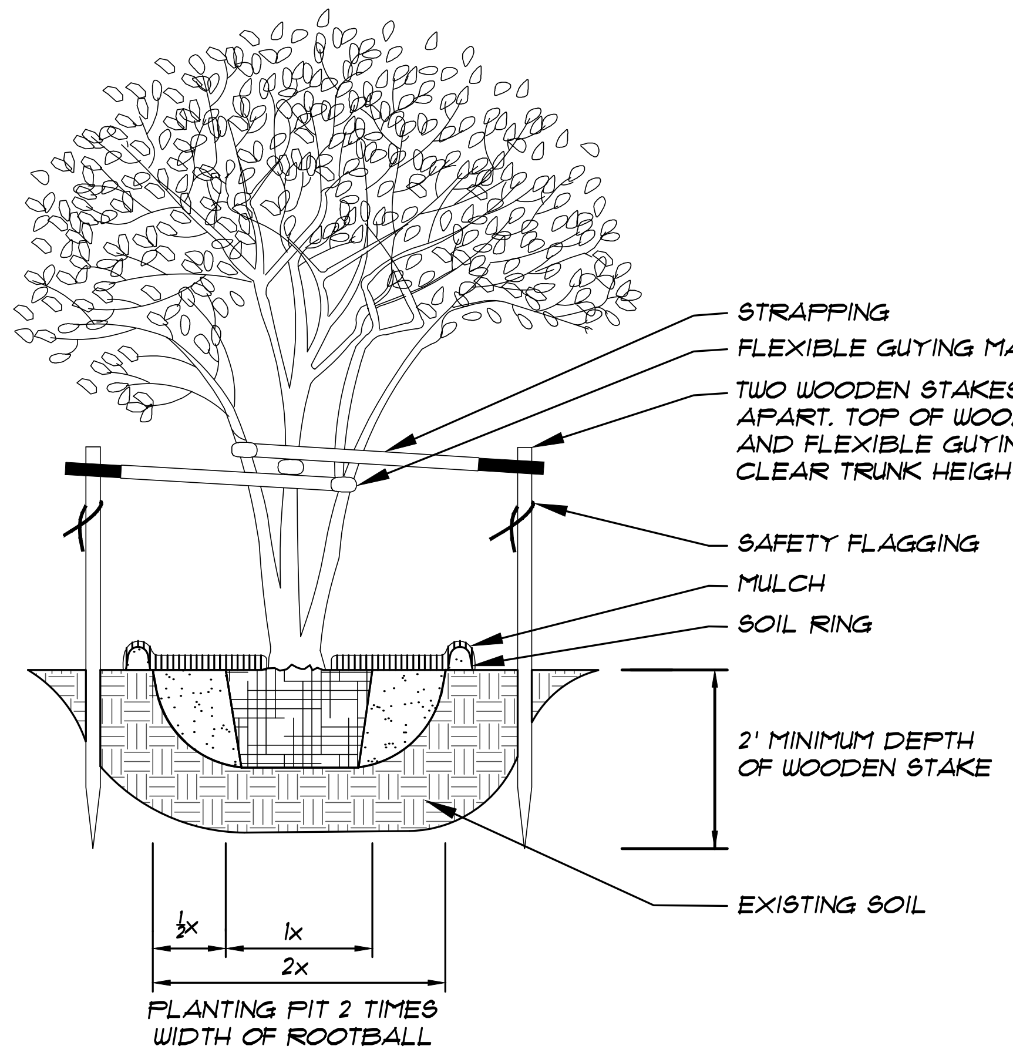
A GROUNDCOVER PLANTING DETAIL

N.T.S.


SHRUB
4" LAYER OF MULCH. NO MORE THAN 1" OF MULCH ON TOP OF ROOT BALL. (SEE SPECIFICATIONS FOR MULCH)
MODIFIED SOIL. DEPTH VARIES. (SEE SPECIFICATIONS FOR SOIL MODIFICATION)
FINISHED GRADE
ROOT BALL RESTS ON EXISTING OR RECOMPACTED SOIL
ROOT BALL
4" HIGH X 8" WIDE ROUND - TOPPED SOIL BERM ABOVE ROOT BALL SURFACE SHALL BE CONSTRUCTED AROUND THE ROOT BALL. BERM SHALL BEGIN AT ROOT BALL PERIPHERY
PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND THE ROOT BALL IN 6" LIFTS TO BRACE SHRUB. DO NOT OVER COMPACT. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED, POUR WATER AROUND THE ROOT BALL TO SETTLE THE SOIL
EXISTING SOIL
SECTION VIEW

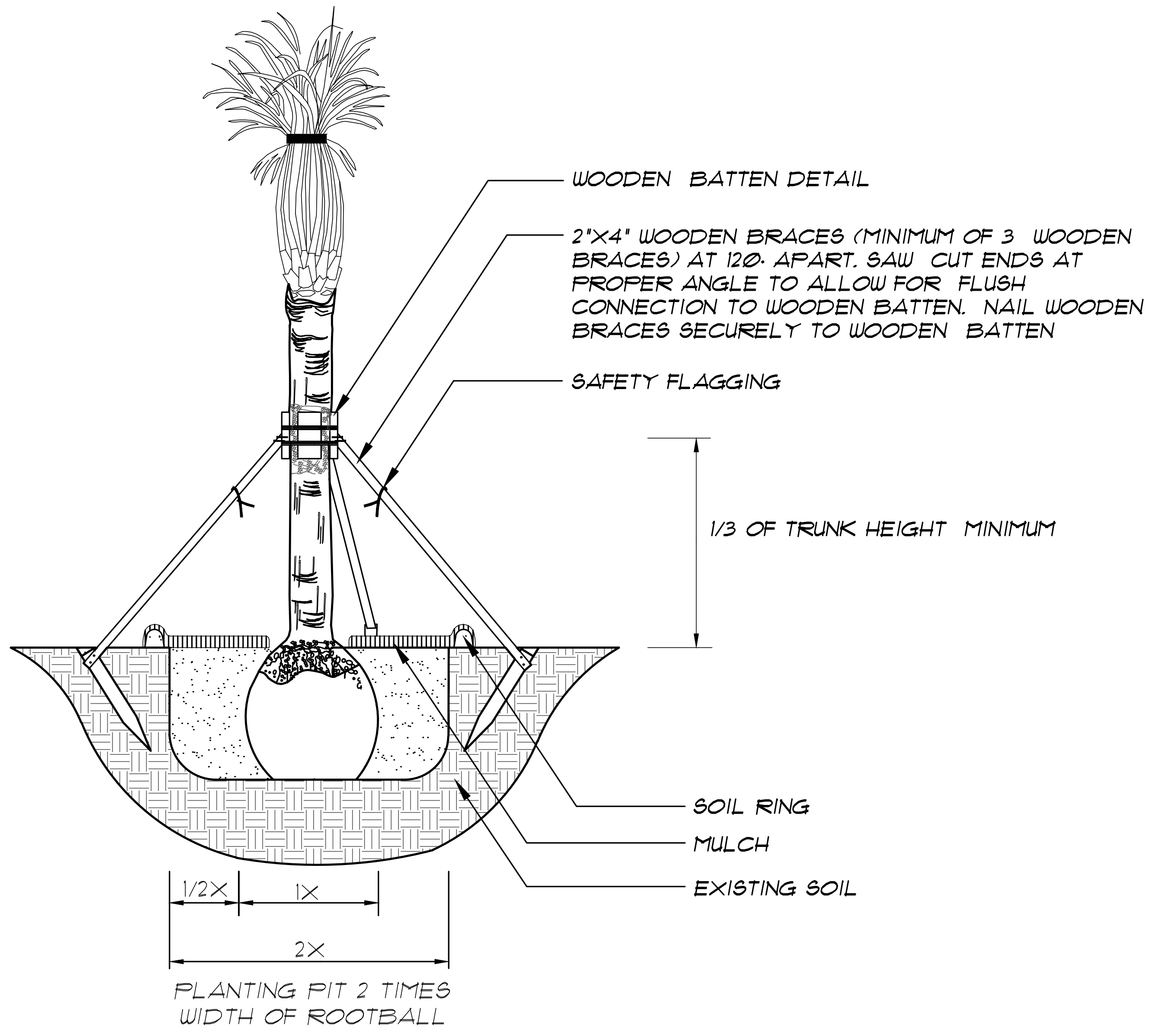
B SHRUB PLANTING DETAIL

N.T.S.


STRAPPING
FLEXIBLE GUYING MATERIAL
TWO WOODEN STAKES AT 180· APART. TOP OF WOODEN STAKES AND FLEXIBLE GUYING 6" BELOW CLEAR TRUNK HEIGHT
SAFETY FLAGGING
MULCH
SOIL RING
2' MINIMUM DEPTH OF WOODEN STAKE
EXISTING SOIL
½x
1x
2x
PLANTING PIT 2 TIMES WIDTH OF ROOTBALL

C MULTI-TRUNK TREE PLANTING DETAIL

N.T.S.


WOODEN BATTEN DETAIL
2"X4" WOODEN BRACES (MINIMUM OF 3 WOODEN BRACES) AT 120· APART. SAW CUT ENDS AT PROPER ANGLE TO ALLOW FOR FLUSH CONNECTION TO WOODEN BATTEN. NAIL WOODEN BRACES SECURELY TO WOODEN BATTEN
SAFETY FLAGGING
1/3 OF TRUNK HEIGHT MINIMUM
SOIL RING
MULCH
EXISTING SOIL
1/2X
1X
2X
PLANTING PIT 2 TIMES WIDTH OF ROOTBALL

D PALM PLANTING DETAIL

N.T.S

PLANTING SCHEDULE:

REFER TO THE ORTHO PROBLEM SOLVER PUBLISHED BY THE MONSANTO CO. & ORTHO INFORMATION SERVICES, SAN FRANCISCO, CA (800) 225-2883 FOR RECOMMENDED CONTROL TREATMENTS FOR SPECIFIC PESTS AND DISEASES IDENTIFIED IN THE MAINTENANCE GUIDELINES OR CONTACT THE WALTON COUNTY EXTENSION SERVICE OF IFAS.

ABBREVIATIONS: A.S. - AS SHOWN B&B - BALLED AND BURLAPPED CAL. - CALIPER C.G.S. - CONTAINER GROWN STOCK D.S.R. - DOUBLE STAGGERED ROW HT - HEIGHT O.C. - ON CENTER

SYMBOL	QUANTITY	BOTANICAL NOMENCLATURE	COMMON NAME	SPACING & SIZE
TREES				
IVT	0	ILEX VOMITORIA 'TREE-FORM'	TREE-FORM YAUPON HOLLY	A.S., 8' O.A. HT., MULTI-TRUNKED SPECIMENS
SP	0	SABAL PALMETTO	SABAL PALM	A.S., TRUNK HEIGHTS AS INDICATED ON PLAN, ⅔ CLEAR TRUNK
SHRUBS				
IVN	0	ILEX VOMITORIA 'NANA'	DWARF YAUPON HOLLY	A.S., 7 GAL.
SR	0	SERENOA REPENS	SAW PALMETTO	A.S., 3 GAL.
GROUNDCOVERS AND VINES				
HD	0	***HELIANTHUS DEBILIS	***DUNE SUNFLOWER	A.S., 1 GAL.
JC	0	***JUNIPERUS CONFERTA 'BLUE PACIFIC'	***BLUE PACIFIC SHORE JUNIPER	A.S., 3 GAL.
MCG	0	MUHLENBERGIA CAPLILLARIS	MUHLY GRASS	A.S., 3 GAL.
RM	0	***ROSA X MEIJOCOS	***PINK DRIFT ROSE	A.S., 3 GAL.
SOD	0	***ZOYSIA X EMPIRE	***EMPIRE ZOYSIA	LAID SOLIDLY AS INDICATED, UTILIZE SOD STAPLES ON STEEP SLOPES, LANDSCAPE CONTRACTOR IS TO PROVIDE A SQUARE FOOT PRICE FOR BID

NOTE:

****** SYMBOL INDICATES PLANTS WHICH HAVE A NORMAL HABIT OF GROWTH WITH A HEIGHT OF LESS THAN 2 FEET. PLANTING IN THESE AREAS SHALL BE MONITORED BY THE OWNER AND MAINTENANCE PROVIDER TO ENSURE THAT THESE PLANTS ARE MANAGED AND PRUNED IF NECESSARY IN ORDER NOT TO EXCEED A 2FT MAXIMUM HEIGHT***

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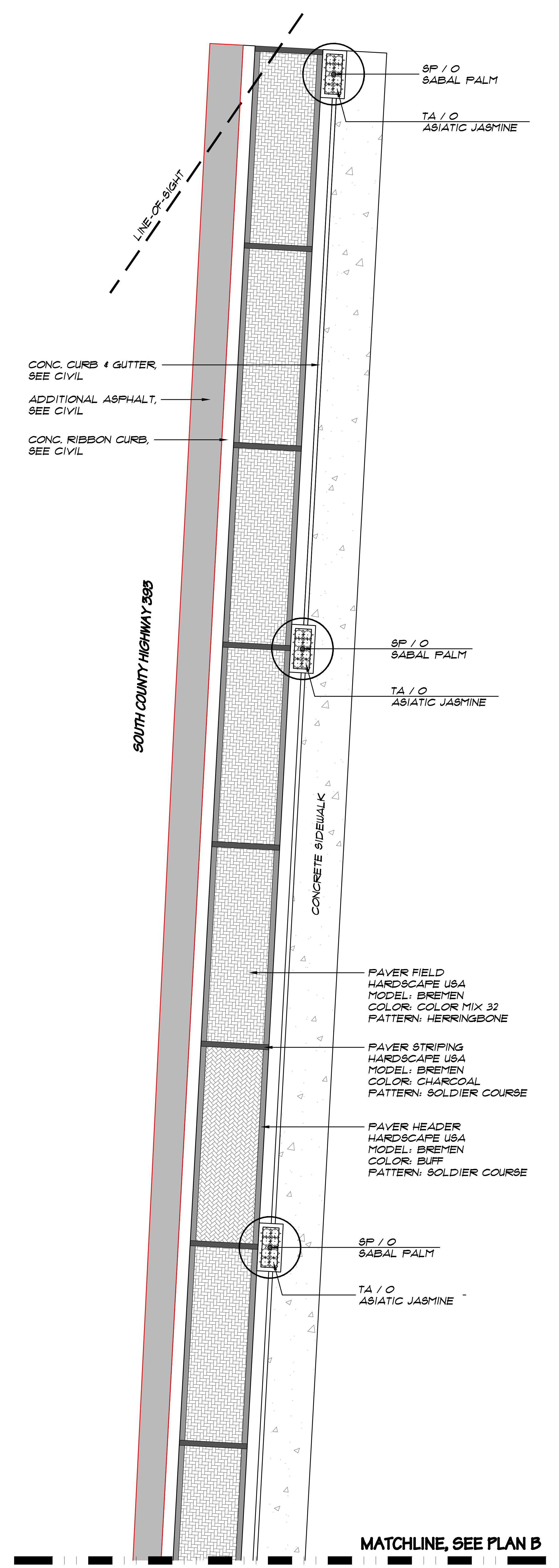
LINE-OF-SIGHT
SP / 0
SABAL PALM
TA / 0
ASIATIC JASMINE
CONC. CURB & GUTTER,
SEE CIVIL
ADDITIONAL ASPHALT,
SEE CIVIL
CONC. RIBBON CURB,
SEE CIVIL
SOUTH COUNTY HIGHWAY 393
SP / 0
SABAL PALM
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SP / 0
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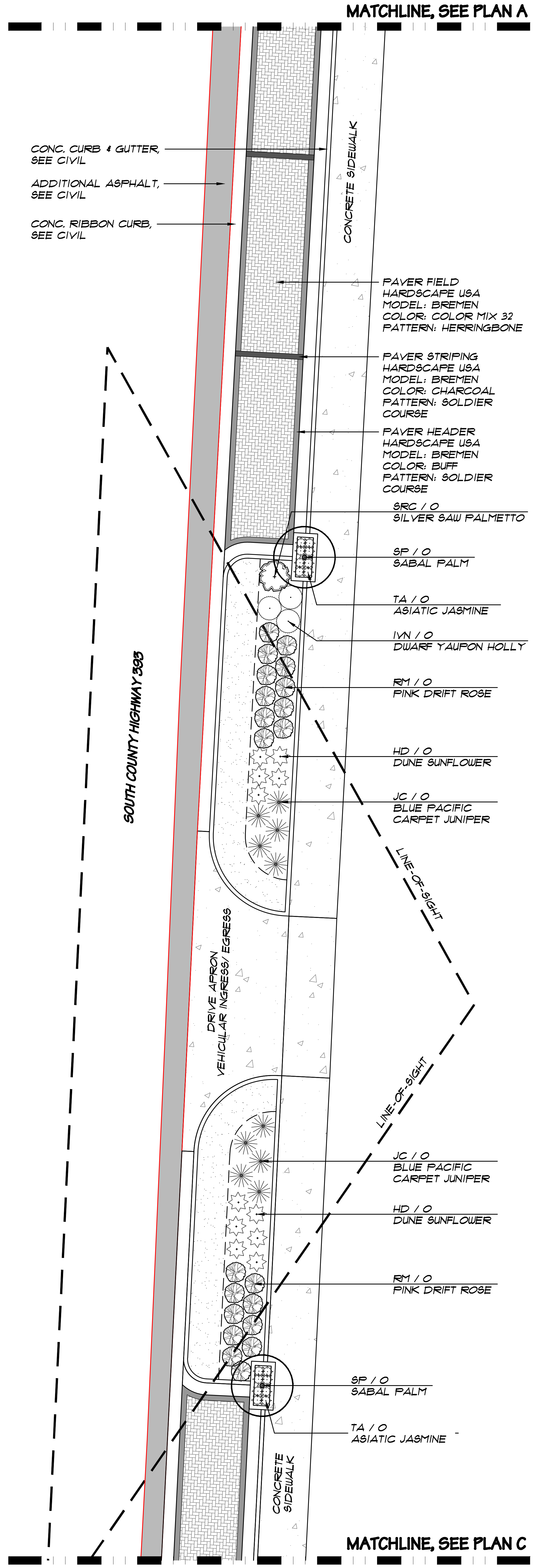
TA / 0
ASIATIC JASMINE
MATCHLINE, SEE PLAN B

Ⓐ FOCUS AREA 3 - PLANTING PLAN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CONC. CURB & GUTTER,
SEE CIVIL
ADDITIONAL ASPHALT,
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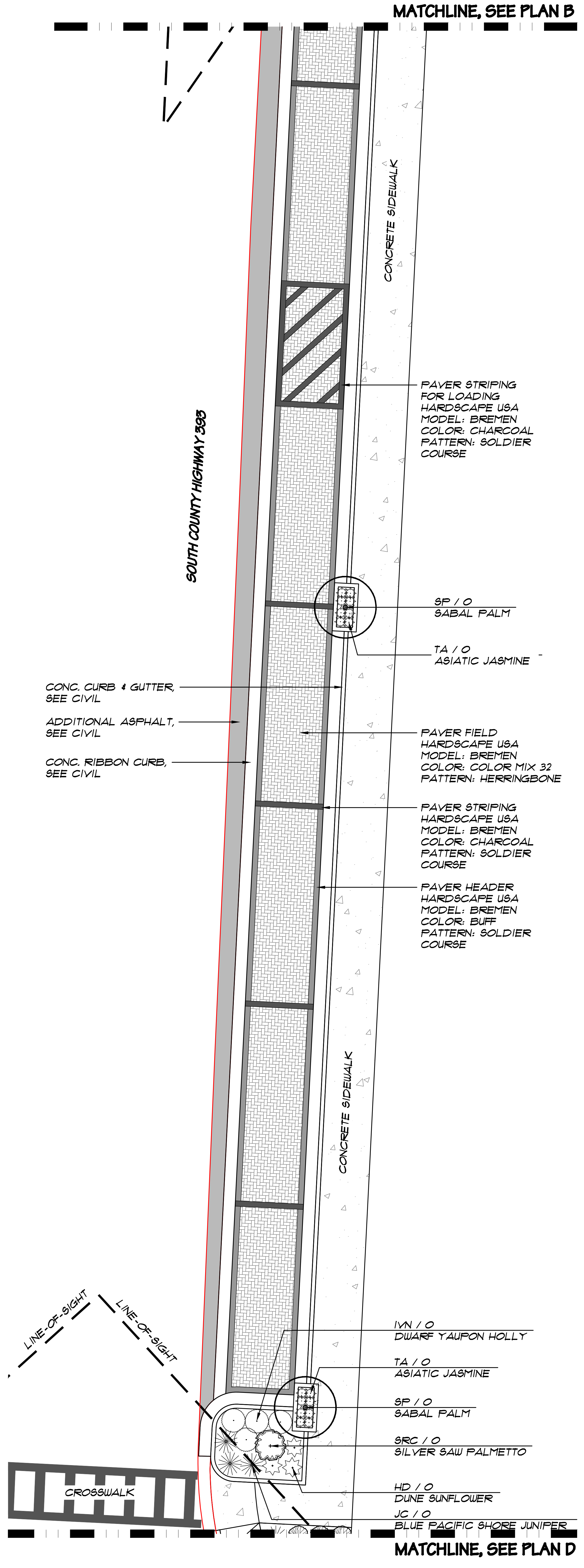
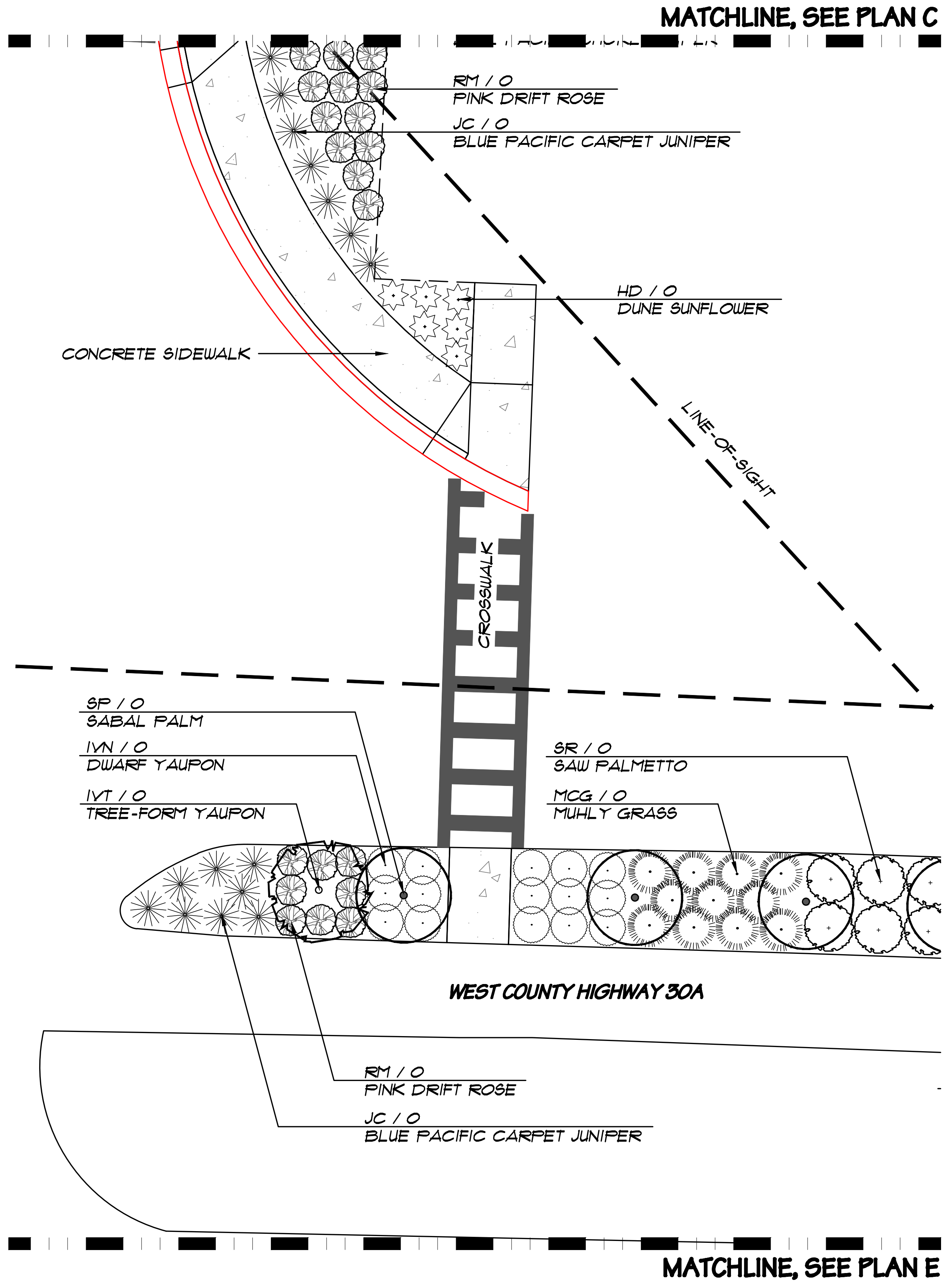
PAVER HEADER
HARDSCAPE USA
MODEL: BREMEN
COLOR: BUFF
PATTERN: SOLDIER
COURSE
SRC / 0
SILVER SAW PALMETTO
SP / 0
SABAL PALM
TA / 0
ASIATIC JASMINE
IVN / 0
DWARF YAUPON HOLLY
RM / 0
PINK DRIFT ROSE
HD / 0
DUNE SUNFLOWER
JC / 0
BLUE PACIFIC
CARPET JUNIPER
SOUTH COUNTY HIGHWAY 393
LINE-OF-SIGHT
DRIVE APRON
VEHICULAR INGRESS/ EGRESS
LINE-OF-SIGHT
JC / 0
BLUE PACIFIC
CARPET JUNIPER
HD / 0
DUNE SUNFLOWER
RM / 0
PINK DRIFT ROSE
SP / 0
SABAL PALM
TA / 0
ASIATIC JASMINE
CONCRETE SIDEWALK
MATCHLINE, SEE PLAN C

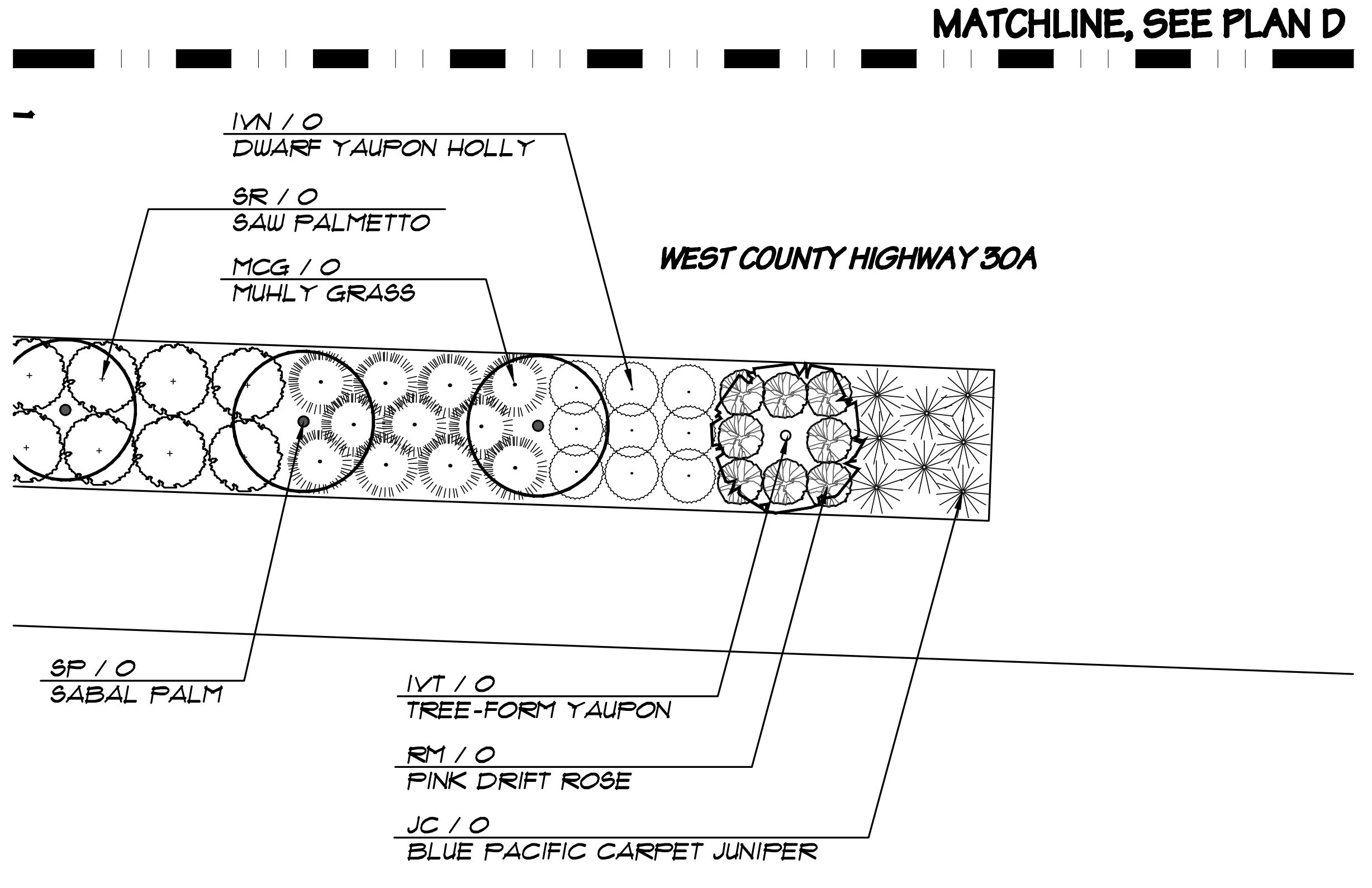
Ⓑ FOCUS AREA 3 - PLANTING PLAN - CONTINUED


MATCHLINE, SEE PLAN B
CONCRETE SIDEWALK
PAVER STRIPING
FOR LOADING
HARDSCAPE USA
MODEL: BREMEN
COLOR: CHARCOAL
PATTERN: SOLDIER
COURSE
SOUTH COUNTY HIGHWAY 393
SP / 0
SABAL PALM
TA / 0
ASIATIC JASMINE
CONC. CURB & GUTTER,
SEE CIVIL
ADDITIONAL ASPHALT,
SEE CIVIL
CONC. RIBBON CURB,
SEE CIVIL
PAVER FIELD
HARDSCAPE USA
MODEL: BREMEN
COLOR: COLOR MIX 32
PATTERN: HERRINGBONE
PAVER STRIPING
HARDSCAPE USA
MODEL: BREMEN
COLOR: CHARCOAL
PATTERN: SOLDIER
COURSE
PAVER HEADER
HARDSCAPE USA
MODEL: BREMEN
COLOR: BUFF
PATTERN: SOLDIER
COURSE
CONCRETE SIDEWALK
LINE-OF-SIGHT
LINE-OF-SIGHT
IVN / 0
DWARF YAUPON HOLLY
TA / 0
ASIATIC JASMINE
SP / 0
SABAL PALM
SRC / 0
SILVER SAW PALMETTO
HD / 0
DUNE SUNFLOWER
JC / 0
BLUE PACIFIC SHORE JUNIPER
CROSSWALK
MATCHLINE, SEE PLAN D

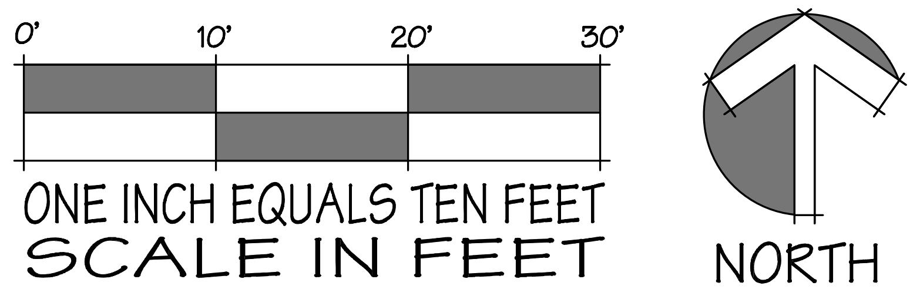
Ⓒ FOCUS AREA 3 - PLANTING PLAN - CONTINUED


MATCHLINE, SEE PLAN C
RM / 0
PINK DRIFT ROSE
JC / 0
BLUE PACIFIC CARPET JUNIPER
HD / 0
DUNE SUNFLOWER
CONCRETE SIDEWALK
LINE-OF-SIGHT
CROSSWALK
SP / 0
SABAL PALM
IVN / 0
DWARF YAUPON
IVT / 0
TREE-FORM YAUPON
SR / 0
SAW PALMETTO
MCG / 0
MUHLY GRASS
WEST COUNTY HIGHWAY 30A
RM / 0
PINK DRIFT ROSE
JC / 0
BLUE PACIFIC CARPET JUNIPER
MATCHLINE, SEE PLAN E

Ⓓ FOCUS AREA 3 - PLANTING PLAN - CONTINUED


MATCHLINE, SEE PLAN D
IVN / 0
DWARF YAUPON HOLLY
SR / 0
SAW PALMETTO
MCG / 0
MUHLY GRASS
WEST COUNTY HIGHWAY 30A
SP / 0
SABAL PALM
IVT / 0
TREE-FORM YAUPON
RM / 0
PINK DRIFT ROSE
JC / 0
BLUE PACIFIC CARPET JUNIPER

Ⓔ FOCUS AREA 3 - PLANTING PLAN - CONTINUED


0'
10'
20'
30'
NORTH

ONE INCH EQUALS TEN FEET
SCALE IN FEET

TETRA TECH
www.tetratech.com
201 EAST PINE STREET, SUITE 1000
ORLANDO, FLORIDA 32801
TEL: (407) 839-3955 FAX: (407) 839-3790

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NOT FOR CONSTRUCTION
FLORIDA LICENSE NO.
CHADWICK D. HORTON - LA 6666971

horton land works
4380 filly lane
destin, fl 32541
850.699.1297

MARK	DATE	DESCRIPTION	BY
	2/16/2016	60% LANDSCAPE ARCHITECTURAL SUBMITTAL	CDH

WALTON COUNTY

WOODWARD, 30A SOUTH
PARKING IMPROVEMENTS

FOCUS AREA 3
GULF PLACE
PLANTING PLAN

Project No.:	15055
Designed By:	CDH
Drawn By:	CDH
Checked By:	CDH

L105

Sheet 5 OF 8

Bar Measures 1 inch

PLANTING NOTES:

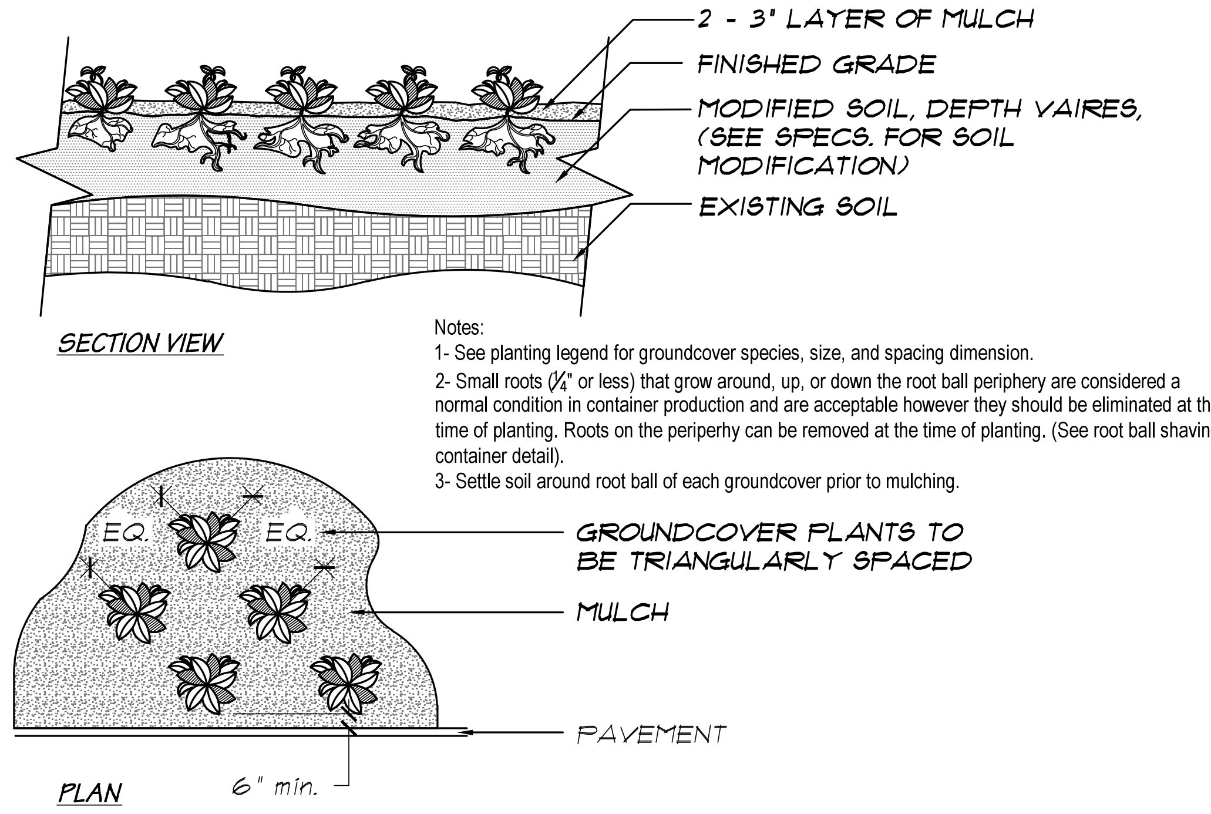
1. LOCATE ALL UNDERGROUND UTILITIES, ELECTRICAL WIRING, WATER, SEWER, TELEPHONE, CABLE TV, ETC., PRIOR TO LANDSCAPE OR IRRIGATION INSTALLATION
2. INSTALL AN AUTOMATIC UNDERGROUND DRIP (SHRUBS & GROUNDCOVERS) & LOW TRAJECTORY ROTOR (SODDED AREAS) IRRIGATION SYSTEM TO ENSURE 100% COVERAGE OF ALL PLANTED AND GRASSED AREAS. BUBBLERS SHALL BE PLACED AT EACH NEW TREE LOCATION. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR AN AUTOMATIC, UNDERGROUND IRRIGATION SYSTEM INCLUDING AN IRRIGATION WELL WITH PUMP (IF REQUIRED), LIGHTNING PROTECTION, ELECTRONIC CONTROLLER, MOISTURE SENSING DEVICES, AND ALL OTHER EQUIPMENT REQUIRED BY LOCAL CODES AS NECESSARY FOR A COMPLETE WORKING SYSTEM. THE PROPOSED WELL LOCATION SHALL BE APPROVED BY THE LA AND OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
3. INSTALL ONLY PLANTS GRADED FLORIDA NO.1 OR BETTER AS SET FORTH IN THE FLORIDA DEPARTMENT OF AGRICULTURE 'GRADES AND STANDARDS FOR NURSERY PLANTS" SECOND EDITION FEB. 1998 INCLUDING REVISIONS AND WHICH MEET OR EXCEED THE SIZES INDICATED IN THE PLANTING SCHEDULE AND DETAILS.
4. PLACE PLANTS WITH BEST "FACE" FORWARD. REMOVE ALL SOIL FROM ABOVE THE TOPMOST ROOT AND MEASURE THE DISTANCE BETWEEN THE TOPMOST ROOT AND THE BOTTOM OF THE ROOT BALL. DIG THE HOLE ABOUT 10 PERCENT SHALLOWER THAN THAT DEPTH AND AS WIDE AS POSSIBLE (AT LEAST ONE AND A HALF TIMES THE WIDTH OF THE BALL AND WIDER IN COMPACTED SOILS). ROOT BALL SHOULD BE POSITIONED IN THE HOLE SHALLOWLY ENOUGH THAT THE FINISHED GRADE OF THE BACKFILL SOIL AND LANDSCAPE SOIL IS LOWER THAN THE TOP OF THE ROOT BALL. APPLY MULCH SO IT COVERS THE SIDES OF THE ROOT BALL. WHEN FINISHED PLANTING, THERE SHOULD BE NO SOIL, AND LITTLE OR NO MULCH, OVER THE TOP OF THE ROOT BALL.
5. DO NOT FERTILIZE WHEN HEAVY RAINFALL IS EXPECTED, ESPECIALLY TROPICAL OR FRONTAL WEATHER SYSTEMS. AVOID LEACHING AND SURFACE RUNOFF.
6. .LIMIT WATER-SOLUBLE (QUICK RELEASE) NITROGEN APPLICATIONS TO 0.5 LB./1000 FT2. THIS INCLUDES THE WATER SOLUBLE PART OF SLOW- RELEASE BLENDS. LIMIT TOTAL N TO 1 LB./1000FT2 PER THE URBAN TURF RULE.
7. LIMIT NITROGEN AND PHOSPHATE FERTILIZATION AT ESTABLISHMENT TO ONE TIME 30 DAYS AFTER SEEDING/SODDING. DO NOT ADD N OR P BEFORE INSTALLATION, BUT AMEND SOIL AS NEEDED WITH LIME OR ORGANIC MATTER.
8. ALWAYS LEAVE A RING OF RESPONSIBILITY NEAR WATER BODIES OR IMPERVIOUS SURFACES. ALWAYS USE DEFLECTOR SHIELDS ON BROADCAST OR ROTARY SPREADERS WHEN APPLYING FERTILIZER NEAR WATER OR SIDEWALKS, DRIVEWAYS AND STREETS. SWEEP ALL FERTILIZER LEFT ON IMPERVIOUS AREAS BACK INTO THE VEGETATED AREA.
9. MAKE SURE THE SPREADER/APPLICATION EQUIPMENT IS PROPERLY CALIBRATED AND SET TO DELIVER THE CORRECT AMOUNT OF FERTILIZER TO THE AREA.
10. WHEN FERTILIZING (OTHER THAN WHEN WATERING RESTRICTIONS APPLY), IRRIGATE WITH 1/4 INCH OF WATER FOLLOWING FERTILIZATION TO AVOID THE LOSS OF NITROGEN AND INCREASE UPTAKE EFFICIENCY. IF WATER RESTRICTIONS APPLY, IRRIGATE AS ALLOWED. MORE THAN 1/2 INCH MAY CAUSE NITROGEN TO BE LEACHED PAST THE ROOT ZONE.
11. USE FE AND/OR MN INSTEAD OF N TO ENHANCE TURFGRASS COLOR ON SOILS HAVING A PH GREATER THAN 7.0, ESPECIALLY DURING TIMES OF ENHANCED RAINFALL.
12. BACKFILL ALL PLANTING PITS WITH THE FOLLOWING MIXTURE ± ½ ONSITE SOIL, ½ CLEAN FRIABLE TOPSOIL. SUBMIT TOPSOIL SAMPLE AND SOIL TEST ANALYSIS FOR APPROVAL BY LANDSCAPE ARCHITECT, (SEE PLANTING DETAILS). REMOVE EXCESS SOIL EXCAVATED FROM PLANT PIT FROM THE SITE OR DISTRIBUTE ON-SITE AS DIRECTED BY L.A.
13. MULCH PLANTING BEDS TO A MINIMUM 2 ½" COMPACTED THICKNESS WITH AN APPROVED ORGANIC MULCH, IE. PINE STRAW, DO NOT COVER TOP OF ROOTBALL.
14. VERIFY ALL QUANTITIES IN THE PLANTING SCHEDULE AND INSTALL ALL PLANTS AND MATERIALS AS INDICATED IN THE PLAN. PROVIDE COMPOSITE UNIT PRICES FOR EACH PLANT, WHICH INCLUDE ALL OTHER INCIDENTAL MATERIALS, (I.E. MULCH, FERTILIZER, TOPSOIL, LABOR, ETC.)
15. NOTIFY THE OWNER AND LANDSCAPE ARCHITECT OF ANY UNFORSEEN CONDITIONS, I.E., COMPACTED SOIL / SUBGRADE, POOR DRAINAGE, UNCONSOLIDATED SOIL, EROSION, UTITLTY CONFLICTS, EXCESSIVE SUN OR SHADE, ETC., PRIOR TO PROCEEDING WITH LANDSCAPE INSTALLATION.
16. GUARANTEE ALL PLANTS FOR ONE YEAR.
17. ALL PLANTS, MATERIALS AND WORKMANSHIP ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT AND OWNER.
18. DO NOT MAKE SUBSTITUTIONS OR REVISIONS, ANY REVISION OR MODIFICATIONS TO THE LANDSCAPE PLAN MUST HAVE PRIOR APPROVAL BY THE THE LANDSCAPE ARCHITECT & OWNER
19. MAINTAIN ALL PLANTING INCLUDING WATERING, MOWING, MULCHING, WEED, PEST CONTROL, ETC. UNTIL FINAL ACCEPTANCE BY THE OWNER.
20. THESE DRAWING DOCUMENTS AND ALL CONTENTS ARE THE PROPERTY OF HORTON LAND WORKS, ALL RIGHTS ARE RESERVED. UNAUTHORIZED USE OR REPRODUCTION, IN PART OR WHOLE, FOR ANY PURPOSE IS UNLAWFUL AND PROHIBITED EXCEPT BY EXPRESS WRITTEN CONSENT.

Table 1: Sufficiency concentration ranges for selected macro and micro-nutrients in turf grass tissue

P	K	Ca	Mg	Fe	Cu	Mn	Zn	B
	Percent (%)				ppm			
0.15 - 0.50	1.00 - 3.00	0.5 - 1.0	0.20 - 0.50	50 - 250	5-30	25 - 100	20 - 250	5-20

Table 2: Sufficiency ranges of tissue N concentration for selected lawn turf grasses

St. Augustine	Zoysia	Bermuda	Centipede	Bahia	Rye
N (%) 2.0 - 3.0	2.0 - 3.0	2.5 - 3.5	1.5 - 2.5	1.5 - 2.5	3.5 - 5.5



2 - 3" LAYER OF MULCH
FINISHED GRADE
MODIFIED SOIL, DEPTH VAIRES, (SEE SPECS. FOR SOIL MODIFICATION)
EXISTING SOIL
SECTION VIEW
EQ.
EQ.
GROUNDCOVER PLANTS TO BE TRIANGULARLY SPACED
MULCH
PAVEMENT
PLAN
6" min.

Notes:
1- See planting legend for groundcover species, size, and spacing dimension.
2- Small roots (¼" or less) that grow around, up, or down the root ball periphery are considered a normal condition in container production and are acceptable however they should be eliminated at the time of planting. Roots on the periperhy can be removed at the time of planting. (See root ball shaving container detail).
3- Settle soil around root ball of each groundcover prior to mulching.

A GROUNDCOVER PLANTING DETAIL

N.T.S.

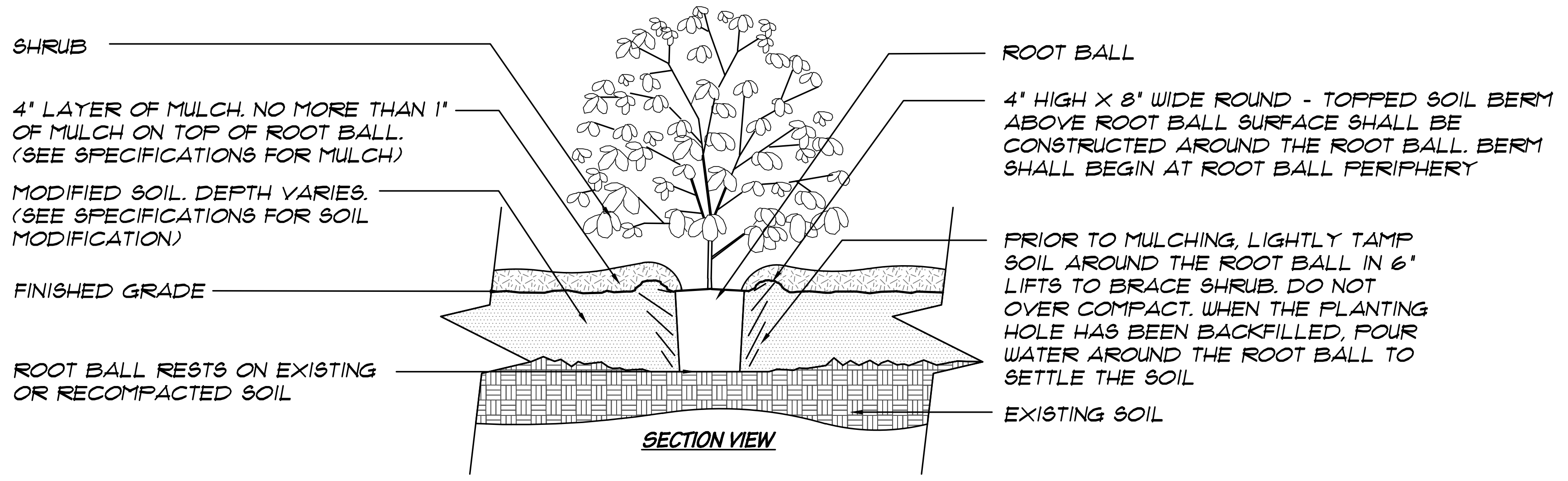
PLANTING SCHEDULE:

REFER TO THE ORTHO PROBLEM SOLVER PUBLISHED BY THE MONSANTO CO. & ORTHO INFORMATION SERVICES, SAN FRANCISCO, CA (800) 225-2883 FOR RECOMMENDED CONTROL TREATMENTS FOR SPECIFIC PESTS AND DISEASES IDENTIFIED IN THE MAINTENANCE GUIDELINES OR CONTACT THE WALTON COUNTY EXTENSION SERVICE OF IFAS.

ABBREVIATIONS: A.S. - AS SHOWN B&B - BALLED AND BURLAPPED CAL. - CALIPER C.G.S. - CONTAINER GROWN STOCK D.S.R. - DOUBLE STAGGERED ROW HT - HEIGHT O.C. - ON CENTER

SYMBOL	QUANTITY	BOTANICAL NOMENCLATURE	COMMON NAME	SPACING & SIZE
TREES				
IVT	0	ILEX VOMITORIA 'TREE-FORM'	TREE-FORM YAUPON HOLLY	A.S., 8' O.A. HT., MULTI-TRUNKED SPECIMENS
SP	0	SABAL PALMETTO	SABAL PALM	A.S., TRUNK HEIGHTS AS INDICATED ON PLAN, ⅔ CLEAR TRUNK
SHRUBS				
IVN	0	ILEX VOMITORIA 'NANA'	DWARF YAUPON HOLLY	A.S., 7 GAL.
SR	0	SERENOA REPENS	SAW PALMETTO	A.S., 3 GAL.
GROUNDCOVERS AND VINES				
HD	0	***HELIANTHUS DEBILIS	***DUNE SUNFLOWER	A.S., 1 GAL.
JC	0	***JUNIPERUS CONFERTA 'BLUE PACIFIC'	***BLUE PACIFIC SHORE JUNIPER	A.S., 3 GAL.
MCG	0	MUHLENBERGIA CAPLILLARIS	MUHLY GRASS	A.S., 3 GAL.
RM	0	***ROSA X MEIJOCOS	***PINK DRIFT ROSE	A.S., 3 GAL.

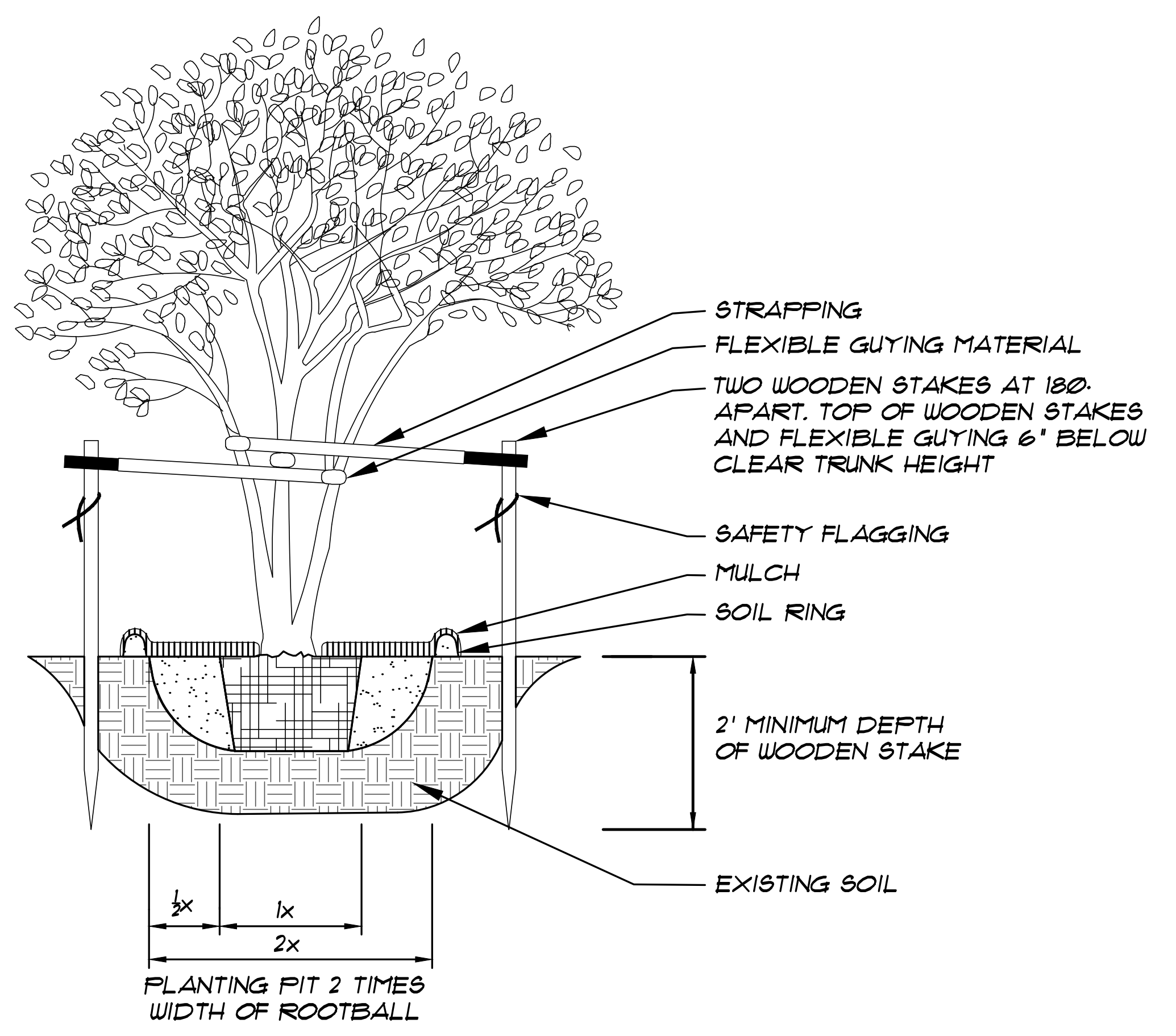
NOTE:
****** SYMBOL INDICATES PLANTS WHICH HAVE A NORMAL HABIT OF GROWTH WITH A HEIGHT OF LESS THAN 2 FEET. PLANTING IN THESE AREAS SHALL BE MONITORED BY THE OWNER AND MAINTENANCE PROVIDER TO ENSURE THAT THESE PLANTS ARE MANAGED AND PRUNED IF NECESSARY IN ORDER NOT TO EXCEED A 2FT MAXIMUM HEIGHT*



SHRUB
4" LAYER OF MULCH. NO MORE THAN 1" OF MULCH ON TOP OF ROOT BALL. (SEE SPECIFICATIONS FOR MULCH)
MODIFIED SOIL. DEPTH VARIES. (SEE SPECIFICATIONS FOR SOIL MODIFICATION)
FINISHED GRADE
ROOT BALL RESTS ON EXISTING OR RECOMPACTED SOIL
ROOT BALL
4" HIGH X 8" WIDE ROUND - TOPPED SOIL BERM ABOVE ROOT BALL SURFACE SHALL BE CONSTRUCTED AROUND THE ROOT BALL. BERM SHALL BEGIN AT ROOT BALL PERIPHERY
PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND THE ROOT BALL IN 6" LIFTS TO BRACE SHRUB. DO NOT OVER COMPACT. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED, POUR WATER AROUND THE ROOT BALL TO SETTLE THE SOIL
EXISTING SOIL
SECTION VIEW

B SHRUB PLANTING DETAIL

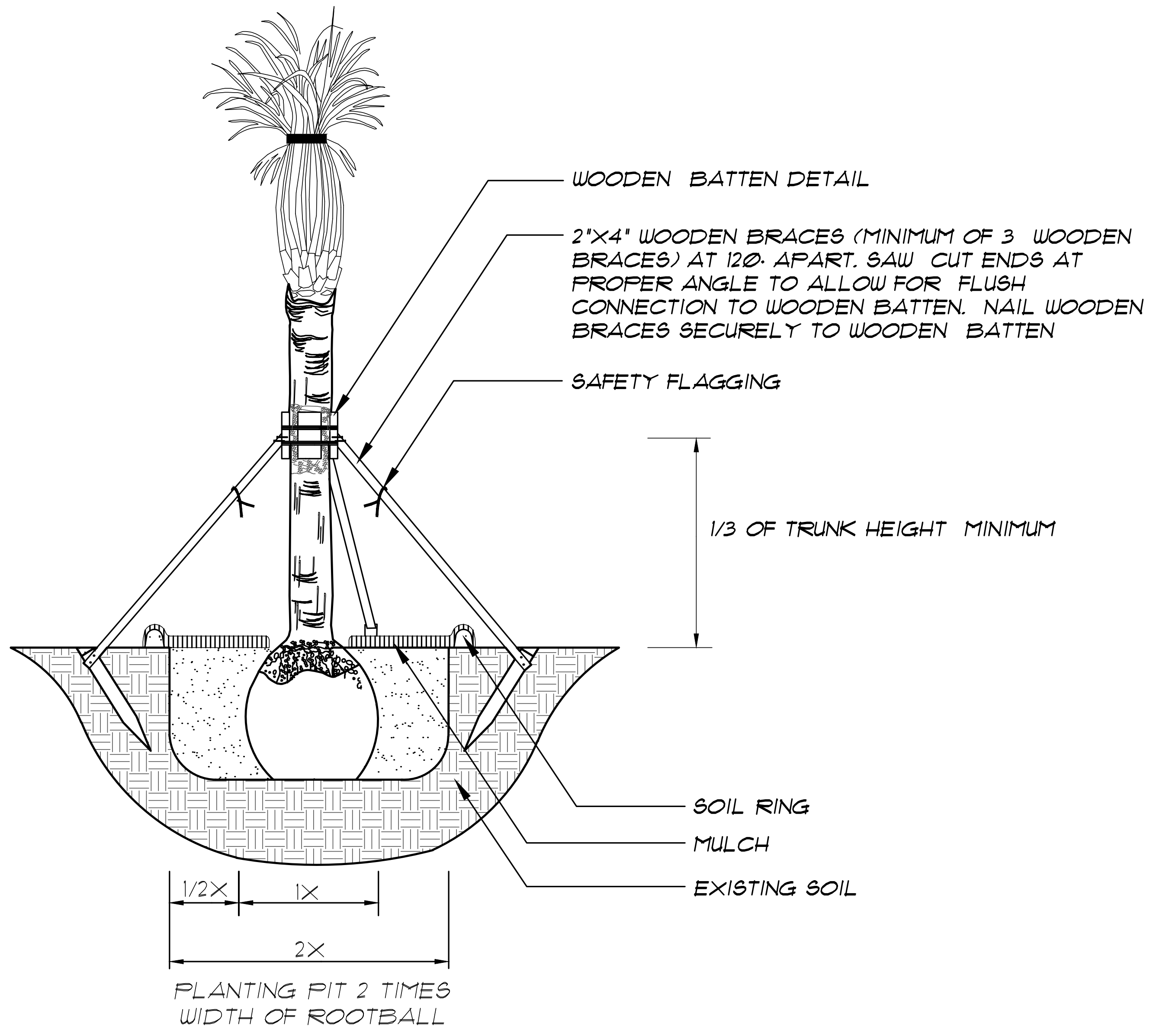
N.T.S.



STRAPPING
FLEXIBLE GUYING MATERIAL
TWO WOODEN STAKES AT 180° APART. TOP OF WOODEN STAKES AND FLEXIBLE GUYING 6" BELOW CLEAR TRUNK HEIGHT
SAFETY FLAGGING
MULCH
SOIL RING
2' MINIMUM DEPTH OF WOODEN STAKE
EXISTING SOIL
½X
1X
2X
PLANTING PIT 2 TIMES WIDTH OF ROOTBALL

C MULTI-TRUNK TREE PLANTING DETAIL

N.T.S.



WOODEN BATTEN DETAIL
2"X4" WOODEN BRACES (MINIMUM OF 3 WOODEN BRACES) AT 120° APART. SAW CUT ENDS AT PROPER ANGLE TO ALLOW FOR FLUSH CONNECTION TO WOODEN BATTEN. NAIL WOODEN BRACES SECURELY TO WOODEN BATTEN
SAFETY FLAGGING
1/3 OF TRUNK HEIGHT MINIMUM
SOIL RING
MULCH
EXISTING SOIL
1/2X
1X
2X
PLANTING PIT 2 TIMES WIDTH OF ROOTBALL

D PALM PLANTING DETAIL

N.T.S

TETRA TECH
www.tetratech.com
201 EAST PINE STREET, SUITE 1000
ORLANDO, FLORIDA 32801
TEL: (407) 839-3955 FAX: (407) 839-3790

REVIEW SET
NOT FOR CONSTRUCTION
FLORIDA LICENSE NO.
CHADWICK D. HORTON - LA 6666971

horton land works
4380 filly lane
destin, fl 32541
850.699.1297

MARK	DATE	DESCRIPTION	BY
	2/16/2016	60% LANDSCAPE ARCHITECTURAL SUBMITTAL	CDH

WALTON COUNTY
WOODWARD, 30A SOUTH
PARKING IMPROVEMENTS
FOCUS AREA 3
GULF PLACE
PLANTING SCHEDULE & DETAILS

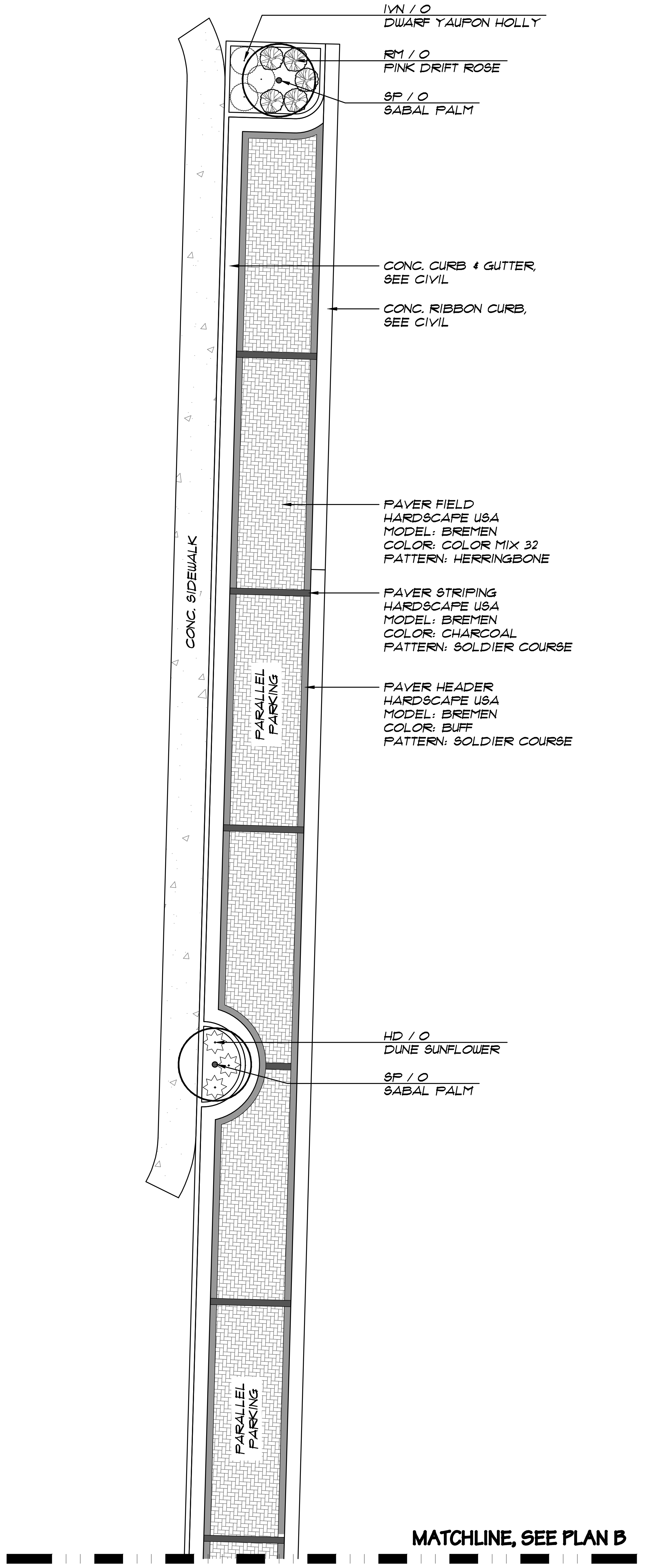
Project No.:	15055
Designed By:	CDH
Drawn By:	CDH
Checked By:	CDH

L106
Sheet 6 OF 8

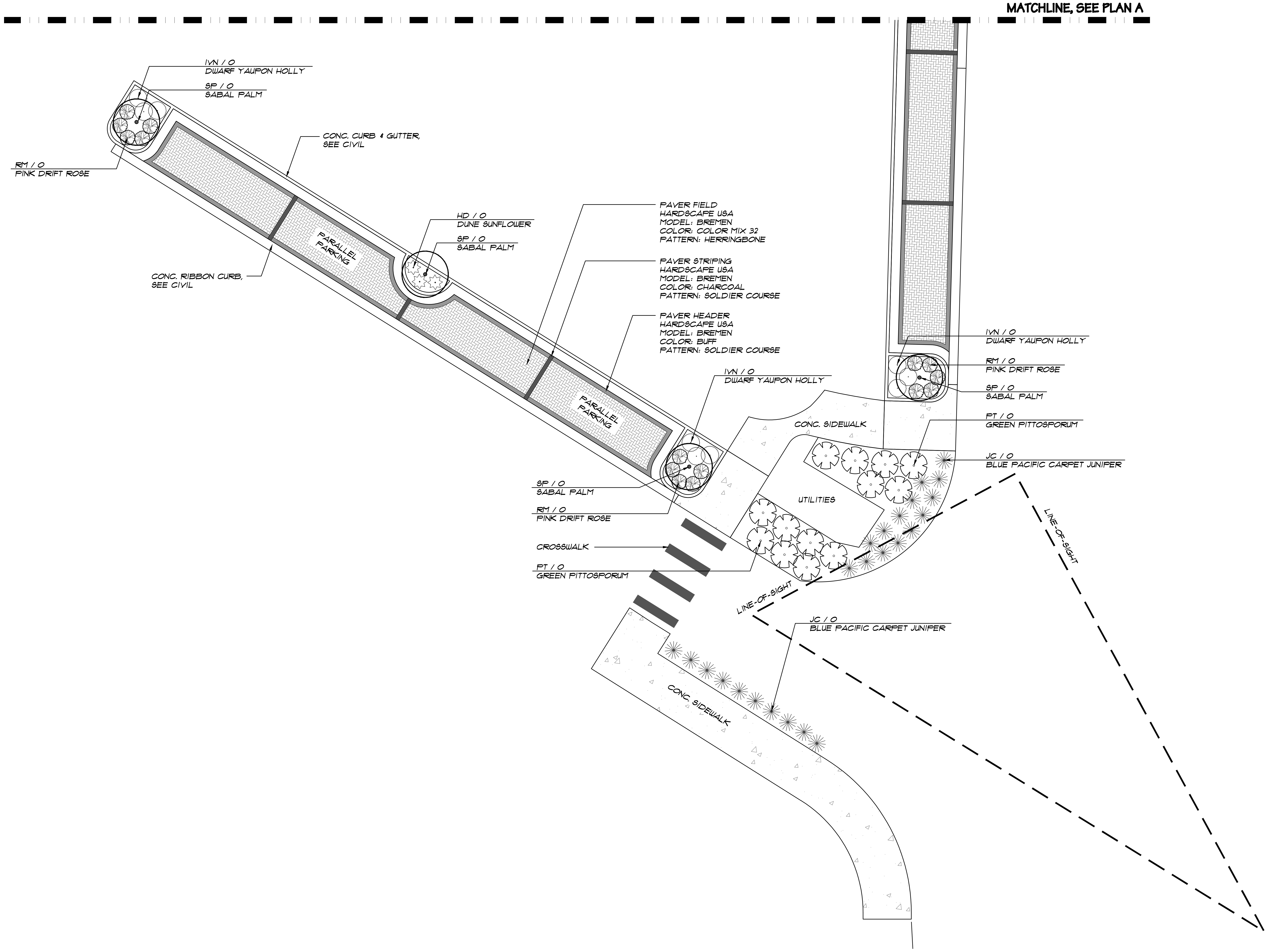
Bar Measures 1 inch

2/19/2016 11:23:35 AM - /USERS/CHADHORTON/DOCUMENTS/MAGIC BRIEFCASE/HORTON LAND WORKS/2015 PROJECTS/15055 - WALTON COUNTY 30A PARKING & BEAUTIFICATION/LANDSCAPE/L101-2.DWG - CHAD HORTON

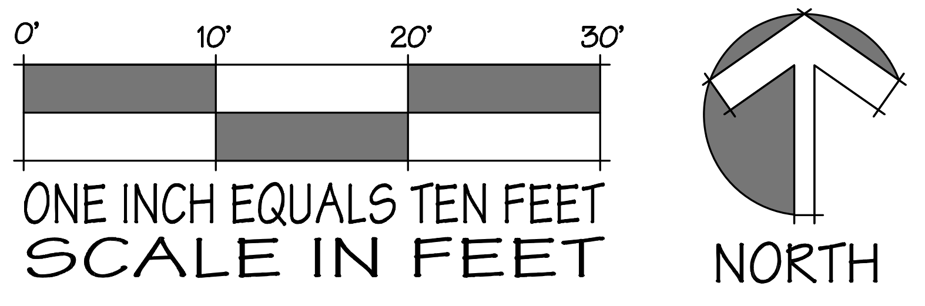
2/19/2016 11:23:15 AM - /USERS/CHADHORTON/DOCUMENTS/MAGIC BRIEFCASE/HORTON LAND WORKS/2015 PROJECTS/15055 - WALTON COUNTY 30A PARKING & BEAUTIFICATION/LANDSCAPE/L101-2.DWG - CHAD HORTON


IVN / 0
DWARF YAUPON HOLLY
RM / 0
PINK DRIFT ROSE
SP / 0
SABAL PALM
CONC. CURB & GUTTER, SEE CIVIL
CONC. RIBBON CURB, SEE CIVIL
PAVER FIELD
HARDSCAPE USA
MODEL: BREMEN
COLOR: COLOR MIX 32
PATTERN: HERRINGBONE
PAVER STRIPING
HARDSCAPE USA
MODEL: BREMEN
COLOR: CHARCOAL
PATTERN: SOLDIER COURSE
PAVER HEADER
HARDSCAPE USA
MODEL: BREMEN
COLOR: BUFF
PATTERN: SOLDIER COURSE
CONC. SIDEWALK
PARALLEL PARKING
HD / 0
DUNE SUNFLOWER
SP / 0
SABAL PALM
PARALLEL PARKING
MATCHLINE, SEE PLAN B

A FOCUS AREA 5 - PLANTING PLAN


MATCHLINE, SEE PLAN A
IVN / 0
DWARF YAUPON HOLLY
SP / 0
SABAL PALM
RM / 0
PINK DRIFT ROSE
CONC. CURB & GUTTER, SEE CIVIL
HD / 0
DUNE SUNFLOWER
SP / 0
SABAL PALM
PARALLEL PARKING
CONC. RIBBON CURB, SEE CIVIL
PAVER FIELD
HARDSCAPE USA
MODEL: BREMEN
COLOR: COLOR MIX 32
PATTERN: HERRINGBONE
PAVER STRIPING
HARDSCAPE USA
MODEL: BREMEN
COLOR: CHARCOAL
PATTERN: SOLDIER COURSE
PAVER HEADER
HARDSCAPE USA
MODEL: BREMEN
COLOR: BUFF
PATTERN: SOLDIER COURSE
PARALLEL PARKING
IVN / 0
DWARF YAUPON HOLLY
SP / 0
SABAL PALM
RM / 0
PINK DRIFT ROSE
CROSSWALK
PT / 0
GREEN PITTOSPORUM
CONC. SIDEWALK
UTILITIES
IVN / 0
DWARF YAUPON HOLLY
RM / 0
PINK DRIFT ROSE
SP / 0
SABAL PALM
PT / 0
GREEN PITTOSPORUM
JC / 0
BLUE PACIFIC CARPET JUNIPER
LINE-OF-SIGHT
LINE-OF-SIGHT
JC / 0
BLUE PACIFIC CARPET JUNIPER
CONC. SIDEWALK

B FOCUS AREA 5 - PLANTING PLAN - CONTINUED


0'
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ONE INCH EQUALS TEN FEET
SCALE IN FEET

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REGISTERED LANDSCAPE ARCHITECT
CHADWICK DALE HORTON
STATE OF FLORIDA
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MARK	DATE	DESCRIPTION	BY
	2/16/2016	60% LANDSCAPE ARCHITECTURAL SUBMITTAL	CDH

WALTON COUNTY

WOODWARD, 30A SOUTH
PARKING IMPROVEMENTS

FOCUS AREA 5
BLUE MOUNTAIN BEACH
PLANTING PLAN

Project No.:	15055
Designed By:	CDH
Drawn By:	CDH
Checked By:	CDH

L107

Sheet 7 OF 8

Bar Measures 1 inch

PLANTING NOTES:

1. LOCATE ALL UNDERGROUND UTILITIES, ELECTRICAL WIRING, WATER, SEWER, TELEPHONE, CABLE TV, ETC., PRIOR TO LANDSCAPE OR IRRIGATION INSTALLATION
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4. PLACE PLANTS WITH BEST "FACE" FORWARD. REMOVE ALL SOIL FROM ABOVE THE TOPMOST ROOT AND MEASURE THE DISTANCE BETWEEN THE TOPMOST ROOT AND THE BOTTOM OF THE ROOT BALL. DIG THE HOLE ABOUT 10 PERCENT SHALLOWER THAN THAT DEPTH AND AS WIDE AS POSSIBLE (AT LEAST ONE AND A HALF TIMES THE WIDTH OF THE BALL AND WIDER IN COMPACTED SOILS). ROOT BALL SHOULD BE POSITIONED IN THE HOLE SHALLOWLY ENOUGH THAT THE FINISHED GRADE OF THE BACKFILL SOIL AND LANDSCAPE SOIL IS LOWER THAN THE TOP OF THE ROOT BALL. APPLY MULCH SO IT COVERS THE SIDES OF THE ROOT BALL. WHEN FINISHED PLANTING, THERE SHOULD BE NO SOIL, AND LITTLE OR NO MULCH, OVER THE TOP OF THE ROOT BALL.
5. DO NOT FERTILIZE WHEN HEAVY RAINFALL IS EXPECTED, ESPECIALLY TROPICAL OR FRONTAL WEATHER SYSTEMS. AVOID LEACHING AND SURFACE RUNOFF.
6. .LIMIT WATER-SOLUBLE (QUICK RELEASE) NITROGEN APPLICATIONS TO 0.5 LB./1000 FT2. THIS INCLUDES THE WATER SOLUBLE PART OF SLOW- RELEASE BLENDS. LIMIT TOTAL N TO 1 LB./1000FT2 PER THE URBAN TURF RULE.
7. LIMIT NITROGEN AND PHOSPHATE FERTILIZATION AT ESTABLISHMENT TO ONE TIME 30 DAYS AFTER SEEDING/SODDING. DO NOT ADD N OR P BEFORE INSTALLATION, BUT AMEND SOIL AS NEEDED WITH LIME OR ORGANIC MATTER.
8. ALWAYS LEAVE A RING OF RESPONSIBILITY NEAR WATER BODIES OR IMPERVIOUS SURFACES. ALWAYS USE DEFLECTOR SHIELDS ON BROADCAST OR ROTARY SPREADERS WHEN APPLYING FERTILIZER NEAR WATER OR SIDEWALKS, DRIVEWAYS AND STREETS. SWEEP ALL FERTILIZER LEFT ON IMPERVIOUS AREAS BACK INTO THE VEGETATED AREA.
9. MAKE SURE THE SPREADER/APPLICATION EQUIPMENT IS PROPERLY CALIBRATED AND SET TO DELIVER THE CORRECT AMOUNT OF FERTILIZER TO THE AREA.
10. WHEN FERTILIZING (OTHER THAN WHEN WATERING RESTRICTIONS APPLY), IRRIGATE WITH 1/4 INCH OF WATER FOLLOWING FERTILIZATION TO AVOID THE LOSS OF NITROGEN AND INCREASE UPTAKE EFFICIENCY. IF WATER RESTRICTIONS APPLY, IRRIGATE AS ALLOWED. MORE THAN 1/2 INCH MAY CAUSE NITROGEN TO BE LEACHED PAST THE ROOT ZONE.
11. USE FE AND/OR MN INSTEAD OF N TO ENHANCE TURFGRASS COLOR ON SOILS HAVING A PH GREATER THAN 7.0, ESPECIALLY DURING TIMES OF ENHANCED RAINFALL.
12. BACKFILL ALL PLANTING PITS WITH THE FOLLOWING MIXTURE ± ½ ONSITE SOIL, ½ CLEAN FRIABLE TOPSOIL. SUBMIT TOPSOIL SAMPLE AND SOIL TEST ANALYSIS FOR APPROVAL BY LANDSCAPE ARCHITECT, (SEE PLANTING DETAILS). REMOVE EXCESS SOIL EXCAVATED FROM PLANT PIT FROM THE SITE OR DISTRIBUTE ON-SITE AS DIRECTED BY L.A.
13. MULCH PLANTING BEDS TO A MINIMUM 2 ½" COMPACTED THICKNESS WITH AN APPROVED ORGANIC MULCH, IE. PINE STRAW, DO NOT COVER TOP OF ROOTBALL.
14. VERIFY ALL QUANTITIES IN THE PLANTING SCHEDULE AND INSTALL ALL PLANTS AND MATERIALS AS INDICATED IN THE PLAN. PROVIDE COMPOSITE UNIT PRICES FOR EACH PLANT, WHICH INCLUDE ALL OTHER INCIDENTAL MATERIALS, (I.E. MULCH, FERTILIZER, TOPSOIL, LABOR, ETC.)
15. NOTIFY THE OWNER AND LANDSCAPE ARCHITECT OF ANY UNFORSEEN CONDITIONS, I.E., COMPACTED SOIL / SUBGRADE, POOR DRAINAGE, UNCONSOLIDATED SOIL, EROSION, UTITLTY CONFLICTS, EXCESSIVE SUN OR SHADE, ETC., PRIOR TO PROCEEDING WITH LANDSCAPE INSTALLATION.
16. GUARANTEE ALL PLANTS FOR ONE YEAR.
17. ALL PLANTS, MATERIALS AND WORKMANSHIP ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT AND OWNER.
18. DO NOT MAKE SUBSTITUTIONS OR REVISIONS, ANY REVISION OR MODIFICATIONS TO THE LANDSCAPE PLAN MUST HAVE PRIOR APPROVAL BY THE THE LANDSCAPE ARCHITECT & OWNER
19. MAINTAIN ALL PLANTING INCLUDING WATERING, MOWING, MULCHING, WEED, PEST CONTROL, ETC. UNTIL FINAL ACCEPTANCE BY THE OWNER.
20. THESE DRAWING DOCUMENTS AND ALL CONTENTS ARE THE PROPERTY OF HORTON LAND WORKS, ALL RIGHTS ARE RESERVED. UNAUTHORIZED USE OR REPRODUCTION, IN PART OR WHOLE, FOR ANY PURPOSE IS UNLAWFUL AND PROHIBITED EXCEPT BY EXPRESS WRITTEN CONSENT.

Table 1: Sufficiency concentration ranges for selected macro and micro-nutrients in turf grass tissue

P	K	Ca	Mg	Fe	Cu	Mn	Zn	B
	Percent (%)				ppm			
0.15 - 0.50	1.00 - 3.00	0.5 - 1.0	0.20 - 0.50	50 - 250	5-30	25 - 100	20 - 250	5-20

Table 2: Sufficiency ranges of tissue N concentration for selected lawn turf grasses

St. Augustine	Zoysia	Bermuda	Centipede	Bahia	Rye
N (%) 2.0 - 3.0	2.0 - 3.0	2.5 - 3.5	1.5 - 2.5	1.5 - 2.5	3.5 - 5.5

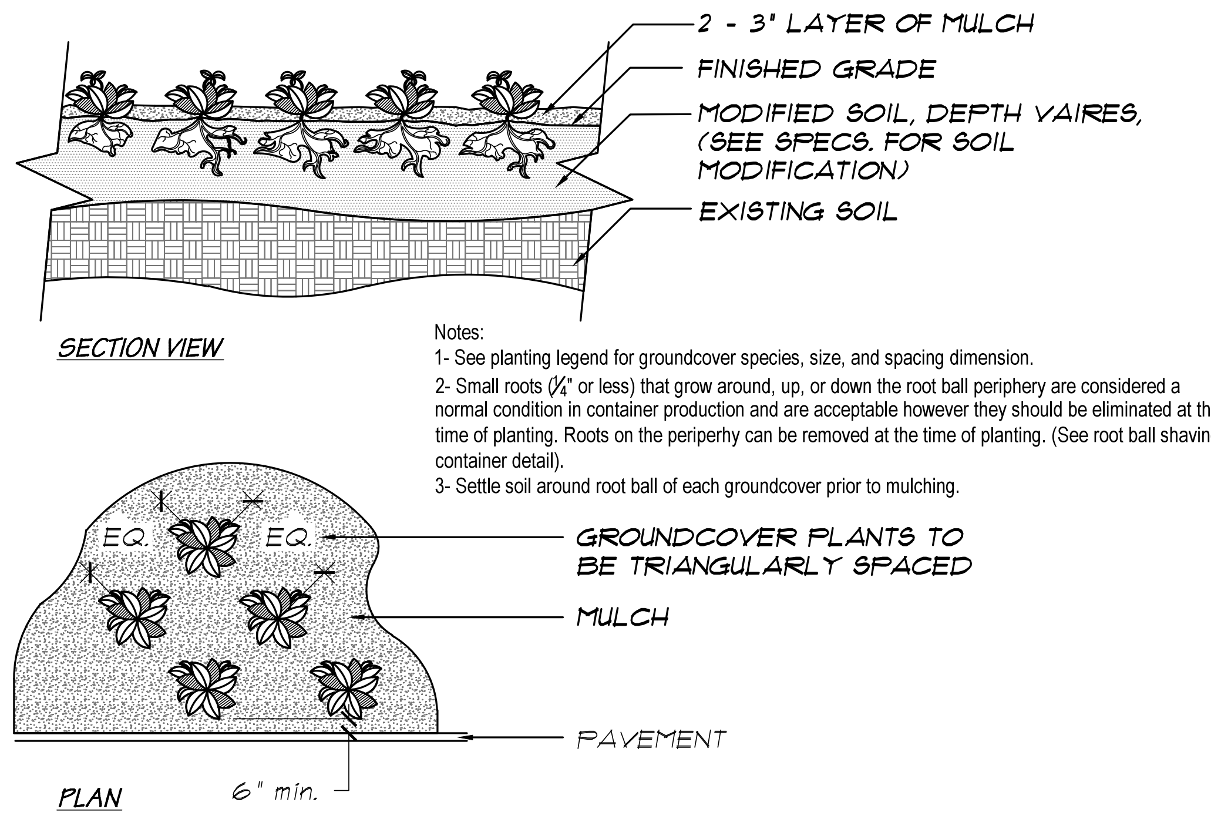
PLANTING SCHEDULE:

REFER TO THE ORTHO PROBLEM SOLVER PUBLISHED BY THE MONSANTO CO. & ORTHO INFORMATION SERVICES, SAN FRANCISCO, CA (800) 225-2883 FOR RECOMMENDED CONTROL TREATMENTS FOR SPECIFIC PESTS AND DISEASES IDENTIFIED IN THE MAINTENANCE GUIDELINES OR CONTACT THE WALTON COUNTY EXTENSION SERVICE OF IFAS.

ABBREVIATIONS: A.S. - AS SHOWN B&B - BALLED AND BURLAPPED CAL. - CALIPER C.G.S. - CONTAINER GROWN STOCK D.S.R. - DOUBLE STAGGERED ROW HT - HEIGHT O.C. - ON CENTER

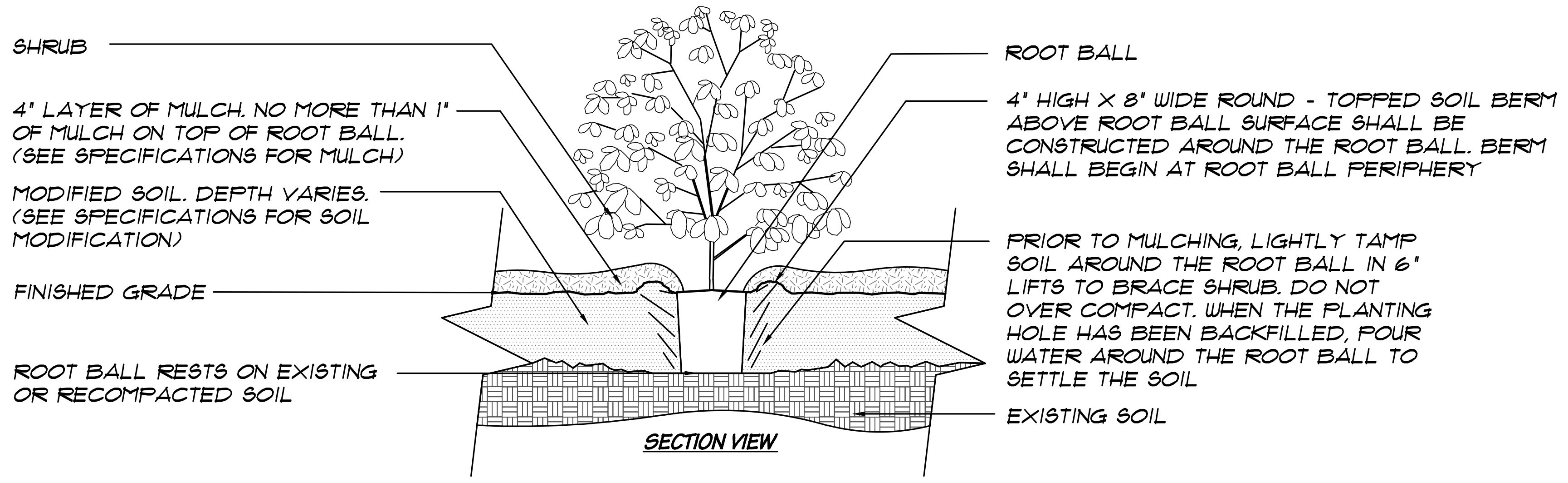
SYMBOL	QUANTITY	BOTANICAL NOMENCLATURE	COMMON NAME	SPACING & SIZE
TREES				
IVT	0	ILEX VOMITORIA 'TREE-FORM'	TREE-FORM YAUPON HOLLY	A.S., 8' O.A. HT., MULTI-TRUNKED SPECIMENS
SP	0	SABAL PALMETTO	SABAL PALM	A.S., TRUNK HEIGHTS AS INDICATED ON PLAN, ⅔ CLEAR TRUNK
SHRUBS				
IVN	0	ILEX VOMITORIA 'NANA'	DWARF YAUPON HOLLY	A.S., 7 GAL.
PT	0	PITTOSPORUM TOBIRA	PITTOSPORUM	A.S., 3 GAL.
SR	0	SERENOA REPENS	SAW PALMETTO	A.S., 3 GAL.
GROUNDCOVERS AND VINES				
HD	0	***HELIANTHUS DEBILIS	***DUNE SUNFLOWER	A.S., 1 GAL.
JC	0	***JUNIPERUS CONFERTA 'BLUE PACIFIC'	***BLUE PACIFIC SHORE JUNIPER	A.S., 3 GAL.
MCG	0	MUHLENBERGIA CAPLILLARIS	MUHLY GRASS	A.S., 3 GAL.
RM	0	***ROSA X MEIJOCOS	***PINK DRIFT ROSE	A.S., 3 GAL.

NOTE:
****** SYMBOL INDICATES PLANTS WHICH HAVE A NORMAL HABIT OF GROWTH WITH A HEIGHT OF LESS THAN 2 FEET. PLANTING IN THESE AREAS SHALL BE MONITORED BY THE OWNER AND MAINTENANCE PROVIDER TO ENSURE THAT THESE PLANTS ARE MANAGED AND PRUNED IF NECESSARY IN ORDER NOT TO EXCEED A 2FT MAXIMUM HEIGHT*

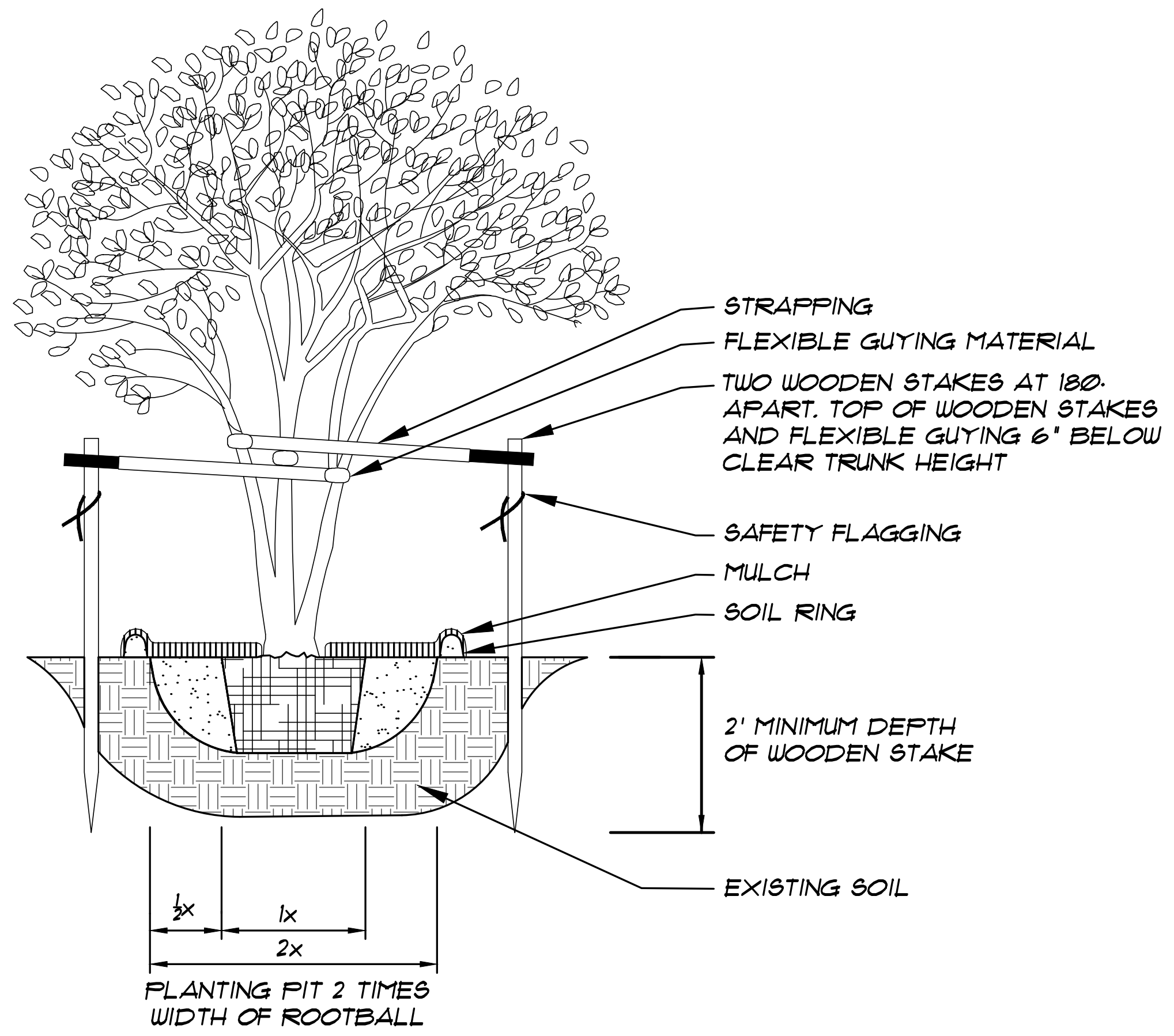

2 - 3" LAYER OF MULCH
FINISHED GRADE
MODIFIED SOIL, DEPTH VAIRES, (SEE SPECS. FOR SOIL MODIFICATION)
EXISTING SOIL
SECTION VIEW
EQ.
EQ.
GROUNDCOVER PLANTS TO BE TRIANGULARLY SPACED
MULCH
PAVEMENT
PLAN
6" min.

Notes:
1- See planting legend for groundcover species, size, and spacing dimension.
2- Small roots (¼" or less) that grow around, up, or down the root ball periphery are considered a normal condition in container production and are acceptable however they should be eliminated at the time of planting. Roots on the periperhy can be removed at the time of planting. (See root ball shaving container detail).
3- Settle soil around root ball of each groundcover prior to mulching.

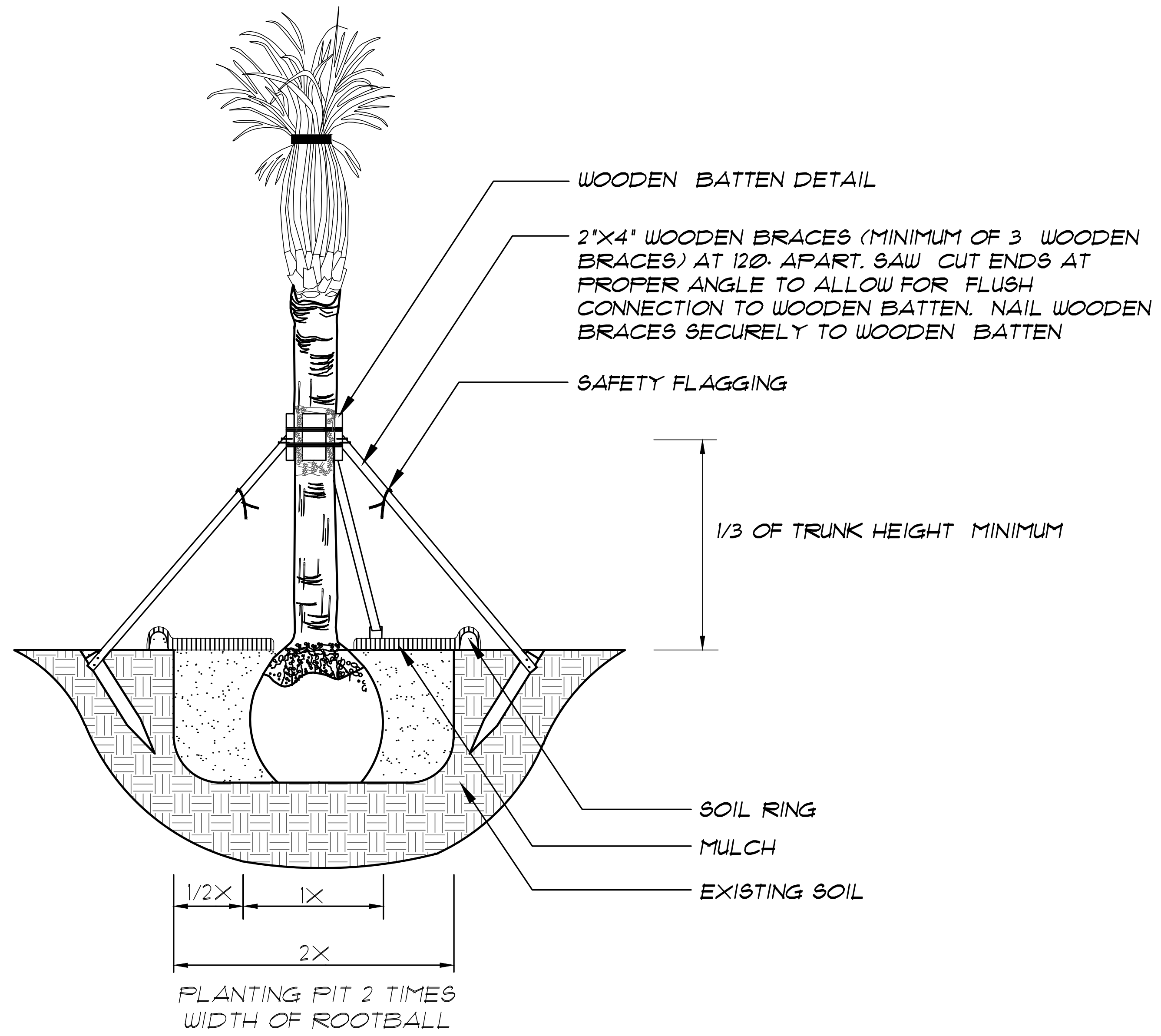
A GROUNDCOVER PLANTING DETAIL
N.T.S.


SHRUB
4" LAYER OF MULCH. NO MORE THAN 1" OF MULCH ON TOP OF ROOT BALL. (SEE SPECIFICATIONS FOR MULCH)
MODIFIED SOIL. DEPTH VARIES. (SEE SPECIFICATIONS FOR SOIL MODIFICATION)
FINISHED GRADE
ROOT BALL RESTS ON EXISTING OR RECOMPACTED SOIL
ROOT BALL
4" HIGH X 8" WIDE ROUND - TOPPED SOIL BERM ABOVE ROOT BALL SURFACE SHALL BE CONSTRUCTED AROUND THE ROOT BALL. BERM SHALL BEGIN AT ROOT BALL PERIPHERY
PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND THE ROOT BALL IN 6" LIFTS TO BRACE SHRUB. DO NOT OVER COMPACT. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED, POUR WATER AROUND THE ROOT BALL TO SETTLE THE SOIL
EXISTING SOIL
SECTION VIEW

B SHRUB PLANTING DETAIL
N.T.S.


STRAPPING
FLEXIBLE GUYING MATERIAL
TWO WOODEN STAKES AT 180° APART. TOP OF WOODEN STAKES AND FLEXIBLE GUYING 6" BELOW CLEAR TRUNK HEIGHT
SAFETY FLAGGING
MULCH
SOIL RING
2' MINIMUM DEPTH OF WOODEN STAKE
EXISTING SOIL
½x
1x
2x
PLANTING PIT 2 TIMES WIDTH OF ROOTBALL

C MULTI-TRUNK TREE PLANTING DETAIL
N.T.S.


WOODEN BATTEN DETAIL
2"X4" WOODEN BRACES (MINIMUM OF 3 WOODEN BRACES) AT 120° APART. SAW CUT ENDS AT PROPER ANGLE TO ALLOW FOR FLUSH CONNECTION TO WOODEN BATTEN. NAIL WOODEN BRACES SECURELY TO WOODEN BATTEN
SAFETY FLAGGING
1/3 OF TRUNK HEIGHT MINIMUM
SOIL RING
MULCH
EXISTING SOIL
1/2X
1X
2X
PLANTING PIT 2 TIMES WIDTH OF ROOTBALL

D PALM PLANTING DETAIL
N.T.S

TETRA TECH
www.tetratech.com
201 EAST PINE STREET, SUITE 1000
ORLANDO, FLORIDA 32801
TEL: (407) 839-3955 FAX: (407) 839-3790

REVIEW SET
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FLORIDA LICENSE NO.
CHADWICK D. HORTON - LA 6666971

horton land works
4380 filly lane
destin, fl 32541
850.699.1297

MARK	DATE	DESCRIPTION	BY
	2/16/2016	60% LANDSCAPE ARCHITECTURAL SUBMITTAL	CDH

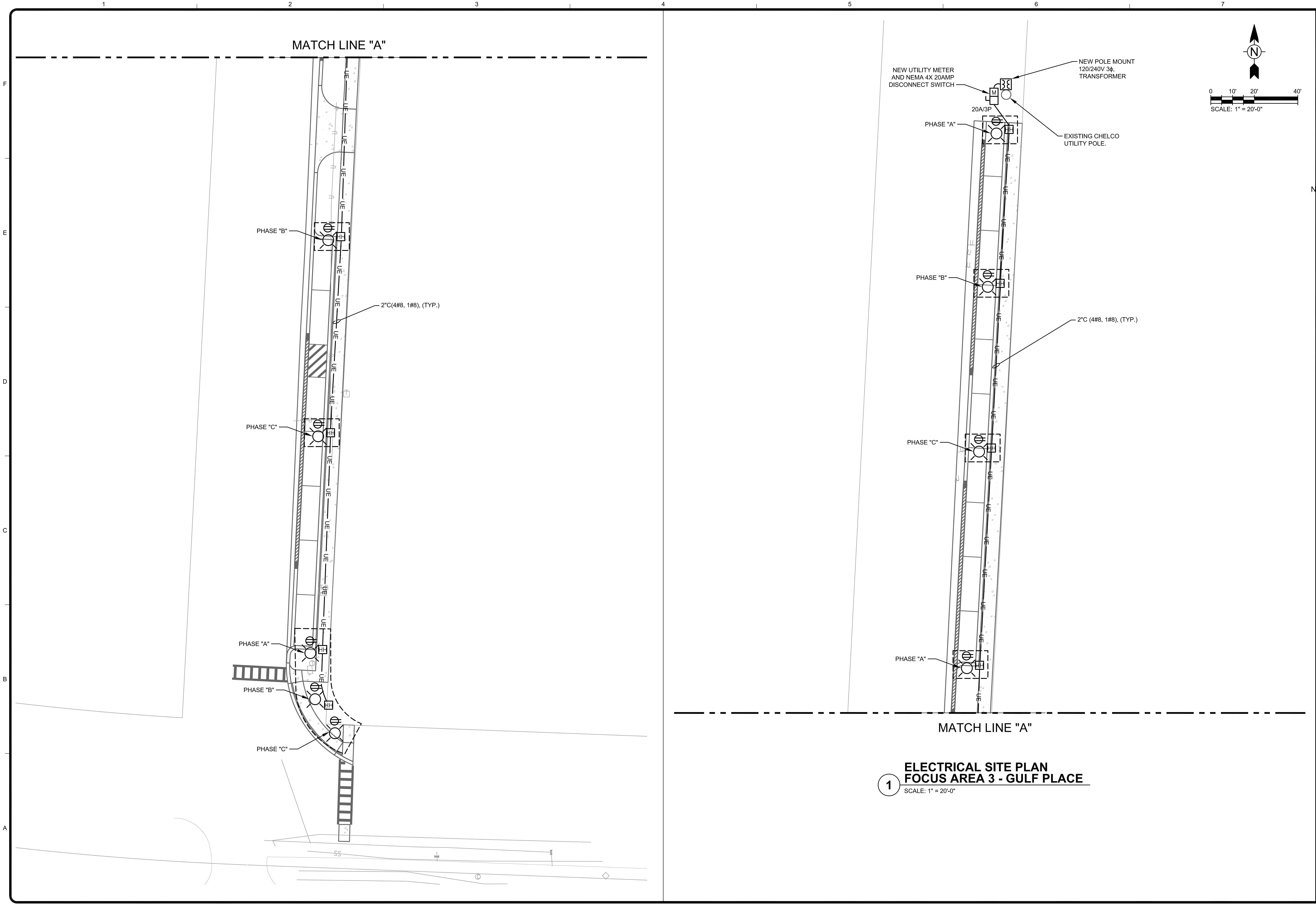
WALTON COUNTY
WOODWARD, 30A SOUTH
PARKING IMPROVEMENTS
FOCUS AREA 5
BLUE MOUNTAIN BEACH
PLANTING SCHEDULE & DETAILS

Project No.:	15055
Designed By:	CDH
Drawn By:	CDH
Checked By:	CDH

L108
Sheet 8 OF 8

Bar Measures 1 inch

2/19/2016 11:22:32 AM - /USERS/CHADHORTON/DOCUMENTS/MAGIC BRIEFCASE/HORTON LAND WORKS/2015 PROJECTS/15055 - WALTON COUNTY 30A PARKING & BEAUTIFICATION/LANDSCAPE/L101-2.DWG - CHAD HORTON


1
2
3
4
5
6
7
F
E
D
C
B
A
MATCH LINE "A"
UE
PHASE "B"
2"C(4#8, 1#8), (TYP.)
PHASE "C"
PHASE "A"
PHASE "B"
PHASE "C"
SS
N
0
10'
20'
40'
SCALE: 1" = 20'-0"
NEW UTILITY METER AND NEMA 4X 20AMP DISCONNECT SWITCH
NEW POLE MOUNT 120/240V 3ϕ, TRANSFORMER
M
20A/3P
PHASE "A"
EXISTING CHELCO UTILITY POLE.
PHASE "B"
2"C (4#8, 1#8), (TYP.)
PHASE "C"
PHASE "A"
MATCH LINE "A"

① ELECTRICAL SITE PLAN FOCUS AREA 3 - GULF PLACE

SCALE: 1" = 20'-0"

2/23/2016 2:09:18 PM - P:\IER\11616\200-11616-15004\CAD\SHEETFILES\E-101 FOCUS AREA 3 - GULF PLACE - ELECTRICAL SITE PLAN.DWG - SEIGNORET, JASON

TETRA TECH
www.tetratech.com
201 EAST PINE STREET, SUITE 1000
ORLANDO, FLORIDA 32801
TEL: (407) 839-3955 FAX: (407) 839-3790

NOT FOR CONSTRUCTION

David A. Burger, P.E.
P.E. No. 47146 FL
10600 Chevrolet Way, Ste. 300
Estero, Florida 33928
Engineering Business No. 2429

DATE

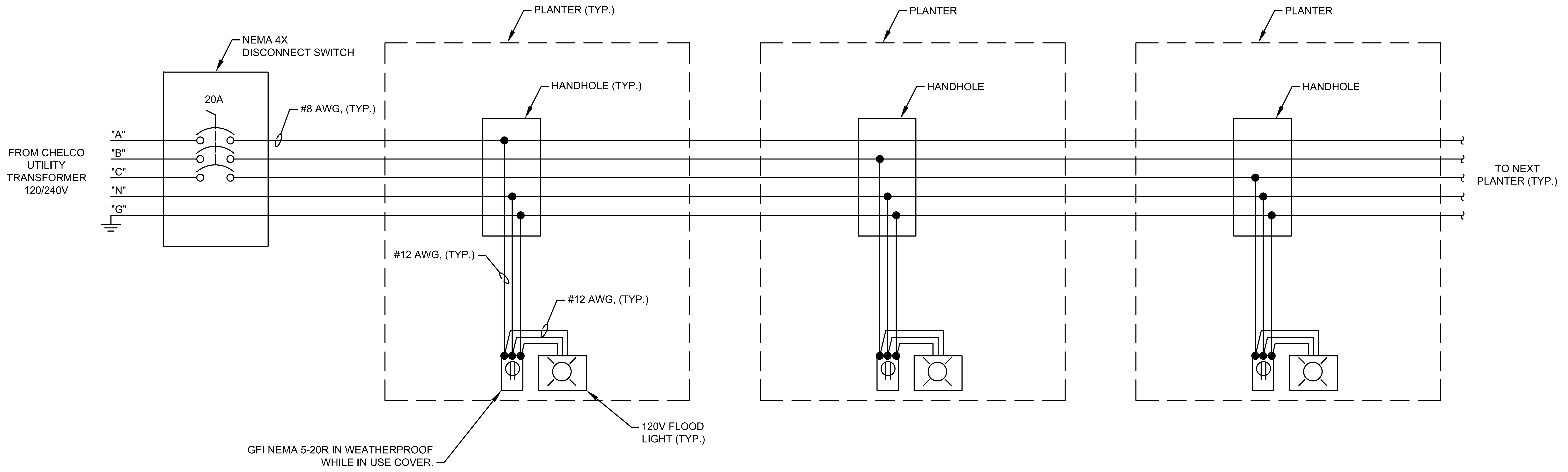
MARK	DATE	DESCRIPTION	BY

WALTON COUNTY
WOODWARD, 30A SOUTH
PARKING IMPROVEMENTS
FOCUS AREA 3
GULF PLACE
ELECTRICAL SITE PLAN

Project No.:	200-11616-15004
Designed By:	JAS
Drawn By:	JAS
Checked By:	DAB

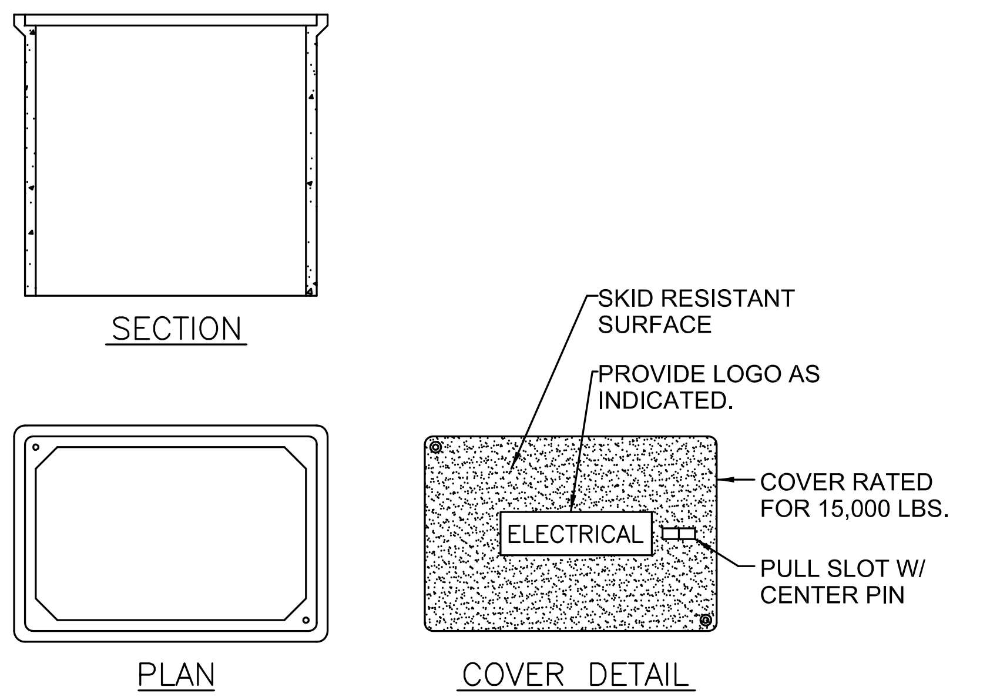
E-101
Sheet

Bar Measures 1 inch


NEMA 4X
DISCONNECT SWITCH
20A
#8 AWG, (TYP.)
FROM CHELCO
UTILITY
TRANSFORMER
120/240V
"A"
"B"
"C"
"N"
"G"
PLANTER (TYP.)
HANDHOLE (TYP.)
PLANTER
HANDHOLE
PLANTER
HANDHOLE
TO NEXT
PLANTER (TYP.)
#12 AWG, (TYP.)
#12 AWG, (TYP.)
GFI NEMA 5-20R IN WEATHERPROOF
WHILE IN USE COVER.
120V FLOOD
LIGHT (TYP.)

TYPICAL WIRING DIAGRAM

SCALE: N/A


SECTION
PLAN
COVER DETAIL
SKID RESISTANT
SURFACE
PROVIDE LOGO AS
INDICATED.
ELECTRICAL
COVER RATED
FOR 15,000 LBS.
PULL SLOT W/
CENTER PIN

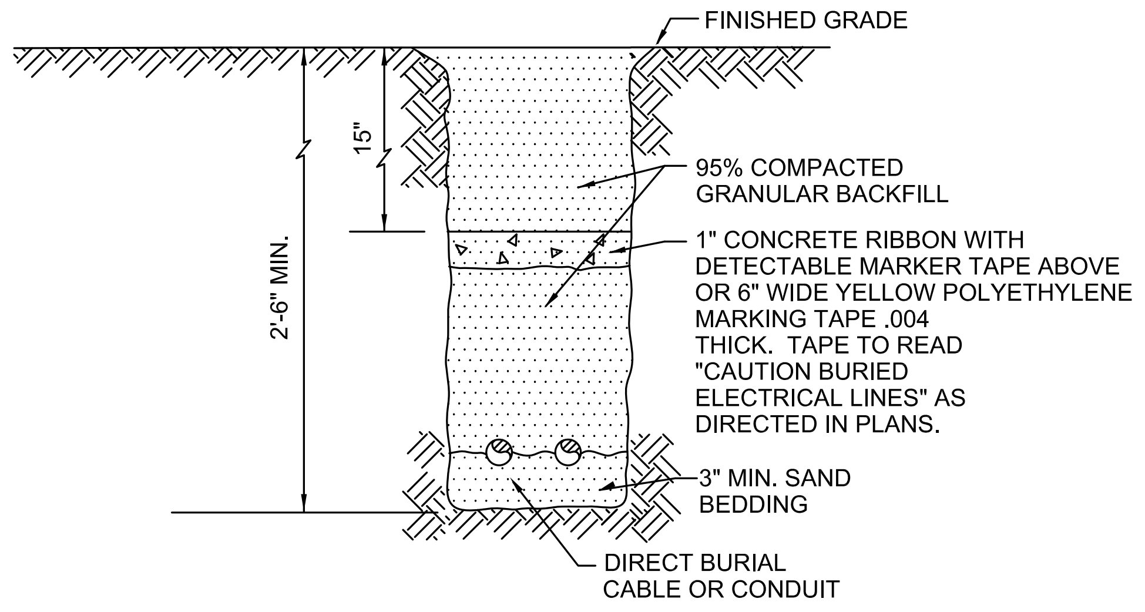
NOTES:

1. HANDHOLES FOR LOW VOLTAGE CABLES INSTALLED IN PARKING LOTS, SIDEWALKS, AND TURFED AREAS SHALL BE FABRICATED FROM AN AGGREGATE CONSISTING OF SAND AND WITH CONTINUOUS WOVEN GLASS STRANDS HAVING AN OVERALL COMPRESSIVE STRENGTH OF AT LEAST 15,000 PSI AND A FLEXURAL STRENGTH OF AT LEAST 15,000 PSI. PULLBOX AND HANDHOLE COVERS IN SIDEWALKS, AND TURFED AREAS SHALL BE OF THE SAME MATERIAL AS THE BOX. CONCRETE PULLBOXES SHALL CONSIST OF PRECAST REINFORCED CONCRETE BOXES, EXTENSIONS, BASES, AND COVERS.
2. IN PAVED AREAS, FRAMES AND COVERS FOR HANDHOLE ENTRANCES IN VEHICULAR TRAFFIC AREAS SHALL BE FLUSH WITH THE FINISHED SURFACE OF THE PAVING. IN UNPAVED AREAS, THE TOP OF MANHOLE COVERS SHALL BE APPROXIMATELY 1/2" ABOVE THE FINISHED GRADE.

QUAZITE COMPOSOLITE OR EQUAL

HANDHOLE DETAIL

NO SCALE


FINISHED GRADE
15"
2'-6" MIN.
95% COMPACTED
GRANULAR BACKFILL
1" CONCRETE RIBBON WITH
DETECTABLE MARKER TAPE ABOVE
OR 6" WIDE YELLOW POLYETHYLENE
MARKING TAPE .004
THICK. TAPE TO READ
"CAUTION BURIED
ELECTRICAL LINES" AS
DIRECTED IN PLANS.
3" MIN. SAND
BEDDING
DIRECT BURIAL
CABLE OR CONDUIT

TRENCHING WITH CONCRETE COVER DETAIL

NO SCALE

TETRA TECH
www.tetratech.com
201 EAST PINE STREET, SUITE 1000
ORLANDO, FLORIDA 32801
TEL: (407) 839-3955 FAX: (407) 839-3790

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David A. Burger, P.E.
P.E. No. 47146 FL
10600 Chevrolet Way, Ste. 300
Estero, Florida 33928
Engineering Business No. 2429

DATE

MARK	DATE	DESCRIPTION	BY

WALTON COUNTY
WOODWARD 30A SOUTH
PARKING IMPROVEMENTS

ELECTRICAL DETAILS

Project No.: 200-11616-15004
Designed By: JAS
Drawn By: JAS
Checked By: DAB

E-102
Sheet

Bar Measures 1 inch

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