



B.S.E. CONSULTANTS, INC.
CONSULTING - ENGINEERING -
LAND SURVEYING

312 SOUTH HARBOR CITY BOULEVARD, SUITE 4
MELBOURNE, FLORIDA 32901
PHONE: (321) 726-2674 FAX: (321) 723-1159
CERTIFICATE OF PROFESSIONAL ENGINEERS
BUSINESS AUTHORIZATION: #905
CERTIFICATE OF LAND SURVEYING
BUSINESS AUTHORIZATION: LB0004905

SCOTT M. GLAUBITZ, P.E. & P.L.S.
STATE OF FLORIDA, No. 33659 No. 4151

HASSAN A. KAMAL, P.E.
STATE OF FLORIDA, No. 41951

**LANDSCAPE
SYMBOL LEGEND**

- CABBAGE PALM TREE
- CYPRESS TREE
- HOLLY TREE
- MAPLE TREE
- PALM TREE
- PINE TREE
- OAK TREE
- TREE LINE
- SHRUB 1
- SHRUB 2

**IRRIGATION
SYMBOL LEGEND**

- SPRINKLER
- RAINBIRD 1/4
- RAINBIRD 1/2
- RAINBIRD 3/4
- RAINBIRD FULL

LINE TYPES

- BEL --- EXISTING BURIED ELECTRIC
- BTL --- EXISTING BURIED TELEPHONE
- CATV --- EXISTING CABLE TV
- FENCE (TYPE, HEIGHT AS NOTED)
- FM --- EXISTING FORCE MAIN (SIZE, TYPE AS NOTED)
- FO --- EXISTING FIBER OPTIC
- GAS --- EXISTING GAS LINE
- IRR --- EXISTING IRRIGATION (SIZE, TYPE AS NOTED)
- OHE --- EXISTING OVERHEAD ELECTRIC
- OHU --- EXISTING OVERHEAD UTILITY
- RM --- EXISTING REUSE MAIN (SIZE, TYPE AS NOTED)
- SF --- SILT FENCE
- SS --- EXISTING SANITARY SEWER (SIZE, TYPE AS NOTED)
- WM --- EXISTING WATER MAIN (SIZE, TYPE AS NOTED)
- CENTERLINE
- BASIN BOUNDARY
- COLUMN / WALL
- GUARD RAIL
- TREE LINE
- DRAINAGE PIPE (SIZE, TYPE AS NOTED)

SYMBOL LEGEND

- EXISTING SANITARY MANHOLE
- EXISTING MANHOLE (TYPE NOTED)
- PROPOSED MANHOLE
- TYPE 2 INLET
- TYPE 3 INLET
- TYPE 4 INLET
- TYPE 5 INLET
- CATCH BASIN
- YARD DRAIN
- FLARED END SECTION
- MITERED END SECTION
- EXISTING GATE VALVE
- PROPOSED GATE VALVE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- EXISTING BLOW-OFF
- PROPOSED BLOW-OFF ASSEMBLY WITH GATE VALVE
- EXISTING FIRE DEPT. CONNECTION
- PROPOSED FIRE DEPT. CONNECTION
- EXISTING WATER METER
- PROPOSED WATER METER
- EXISTING WATER SERVICE
- PROPOSED WATER SERVICE
- EXISTING REUSE SERVICE
- PROPOSED REUSE SERVICE
- SANITARY SERVICE
- STUB OUT
- EXISTING AIR RELEASE VALVE
- AIR RELEASE VALVE
- EXISTING CLEAN OUT
- CLEAN OUT
- CROSS TEE
- TEE
- BACK FLOW PREVENTION DEVICE
- REDUCER
- POST INDICATOR VALVE
- UTILITY RISER
- CONCRETE POWER POLE
- WOOD UTILITY POLE
- GUY WIRE
- GUY POLE
- EXISTING LIGHT POLE
- PROPOSED LIGHT POLE
- EXISTING SIGN
- PROPOSED SIGN
- DIRT PAD ELEVATION
- FINISHED FLOOR ELEVATION
- TYPE A LOT DRAINAGE
- TYPE B LOT DRAINAGE
- LOT NUMBER
- FLOW ARROW

ABBREVIATIONS

- ' MINUTES/FEET
- " SECONDS/INCHES
- * DEGREES
- (C) CALCULATED DIMENSION
- (D) DEED DIMENSION
- (F) FIELD MEASURED DIMENSION
- (M) METER(S)
- (NR) NOT RADIAL
- (P) PLAT DIMENSION
- A/C AIR CONDITIONER
- AC ACRES
- ADS ADVANCED DRAINAGE SYSTEMS (CPP)
- AL ARC LENGTH
- ARV AIR RELEASE VALVE
- AVE AVENUE
- BLVD BOULEVARD
- BM BENCH MARK
- BVC BEGIN VERTICAL CURVE
- BVP BEGIN VERTICAL PROFILE
- CL CENTERLINE
- C/O CLEAN OUT
- CA CENTRAL ANGLE
- CATV CABLE TELEVISION
- CB CHORD BEARING
- CBS CONCRETE BLOCK STRUCTURE
- CH CHORD LENGTH
- CM CONCRETE MONUMENT
- CMP CORRUGATED METAL PIPE
- CONC CONCRETE
- COR CORNER
- CPP CORRUGATED PLASTIC PIPE
- DE DRAINAGE EASEMENT
- DEL DELTA/CENTRAL ANGLE
- DI DITCH INLET/ CATCH BASIN
- DIP DUCTILE IRON PIPE
- DS DRAINAGE STRUCTURE
- E EAST
- EG EXISTING GROUND
- ELEC ELECTRIC
- ELEV ELEVATION
- EOP EDGE OF PAVEMENT
- EW EDGE OF WATER
- ERCP ELLIPTICAL REINFORCED CONCRETE PIPE
- ESMT EASEMENT
- EVC END VERTICAL CURVE
- EVP END VERTICAL PROFILE
- EX EXISTING
- FD FOUND
- FDC FIRE DEPARTMENT CONNECTION
- FDOT FLORIDA DEPARTMENT OF TRANSPORTATION
- FES FLARED END SECTION
- FFE FINISHED FLOOR ELEVATION
- FH FIRE HYDRANT
- FL FLOW LINE
- FM FORCE MAIN
- FPL FLORIDA POWER AND LIGHT
- FT FEET
- GLO GENERAL LAND OFFICE
- GR GROUND
- GV GATE VALVE(S)
- H/C HANDICAP
- HP HIGH POINT
- HWY HIGHWAY
- ID# IDENTIFICATION NUMBER
- INV INVERT
- IP IRON PIPE
- IPC IRON PIPE AND CAP
- IR IRON ROD
- IRC IRON ROD AND CAP
- JCT JUNCTION
- LF LINEAR FEET
- L LEFT
- LP LOW POINT

ABBREVIATIONS

- LS LANDSCAPE
- LWP LIGHTER WOOD POST
- MAX MAXIMUM
- MES MITERED END SECTION
- MH MANHOLE
- MHW MEAN HIGH WATER
- MI MILE(S)
- MIN MINIMUM
- N NORTH
- N&D NAIL AND DISK
- NAVD88 NORTH AMERICAN VERTICAL DATUM 1988
- NGVD29 NATIONAL GEODETIC VERTICAL DATUM 1929
- NG NATURAL GROUND
- NIC NOT IN CONTRACT
- NTS NOT TO SCALE
- NWL NORMAL WATER LEVEL
- OHE OVERHEAD ELECTRIC/ UTILITY
- OR/ORB OFFICIAL RECORDS BOOK
- PL PROPERTY LINE
- PAVT PAVEMENT
- PB PLAT BOOK
- PC POINT OF CURVATURE
- PCC POINT OF COMPOUND CURVATURE
- PCP PERMANENT CONTROL POINT
- PD&UE PUBLIC DRAINAGE AND UTILITY EASEMENT
- PDE PUBLIC DRAINAGE EASEMENT
- PG(S) PAGE(S)
- PGL PROPOSED GRADE LINE
- PK PARKER-KALEN
- POB POINT OF BEGINNING
- POC POINT OF COMMENCEMENT
- POL POINT ON LINE
- PP POWER/UTILITY POLE
- PR PRIVATE
- PRC POINT OF REVERSE CURVATURE
- PT POINT OF TANGENCY
- PVC POLYVINYL CHLORIDE PIPE
- PVI POINT OF VERTICAL INTERSECTION
- R RADIUS/RIGHT
- R/W RIGHT-OF-WAY
- RAD RADIAL
- RB RADIAL BEARING
- RCP REINFORCED CONCRETE PIPE
- REF REFERENCE
- RGE RANGE
- RM REUSE MAIN
- RND ROUND
- RPB ROAD PLAT BOOK
- RR RAILROAD
- S SOUTH
- SEC SECTION
- SF SQUARE FOOT
- SMH SEWER MANHOLE
- SPK SPIKE
- SS SANITARY SEWER
- ST STREET
- STA STATION
- SVC SERVICE
- SW SIDEWALK
- TEL TELEPHONE
- TOB TOP OF BANK
- TOE TOE OF SLOPE
- TWP TOWNSHIP
- TYP TYPICAL
- UE UTILITY EASEMENT
- UG UNDERGROUND
- UTIL UTILITY
- W WEST
- WM WATER MAIN

	CITY COMMENTS	10/30/20
DATE:		08/31/20
DESIGN/DRAWN:	ALS/DRB	

PROJECT TITLE

CIRRUS

SHEET TITLE

**SYMBOLS AND
ABBREVIATIONS**

PROJECT NO.

11545

DRAWING NO.

11545_400_002

SHEET

2 of 19

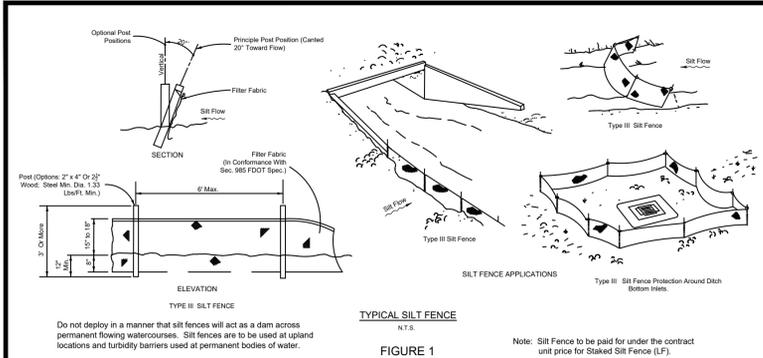


FIGURE 1

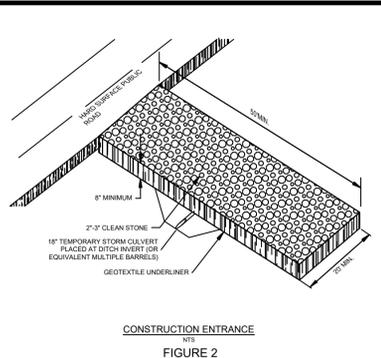


FIGURE 2

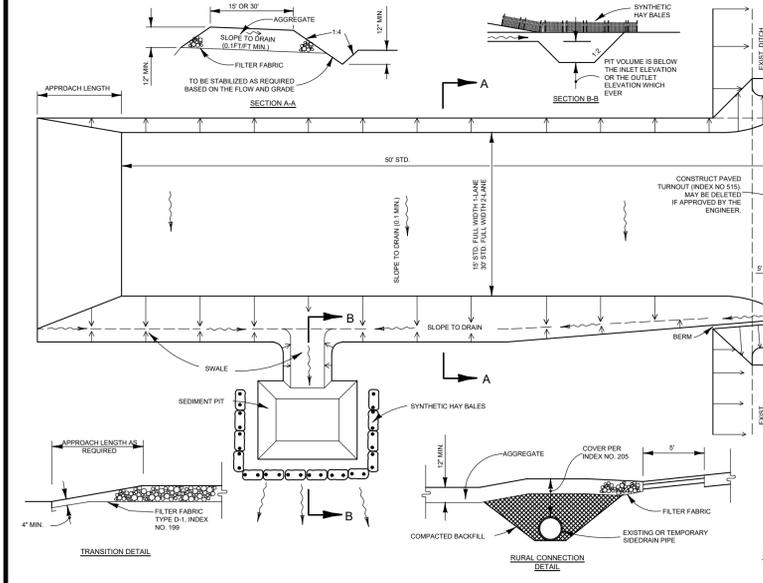


FIGURE 3

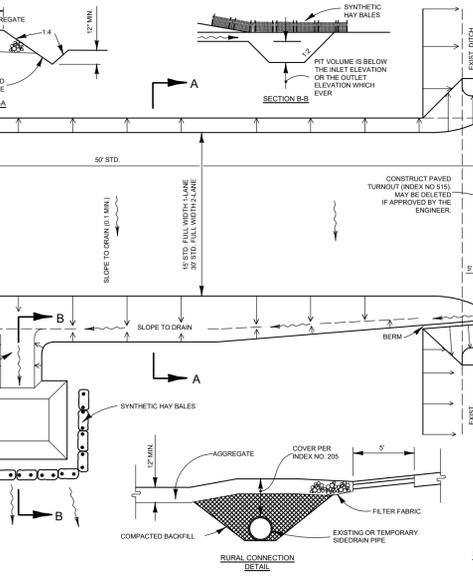


FIGURE 4

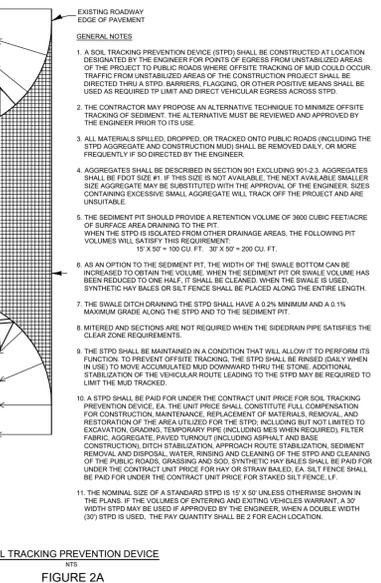


FIGURE 5

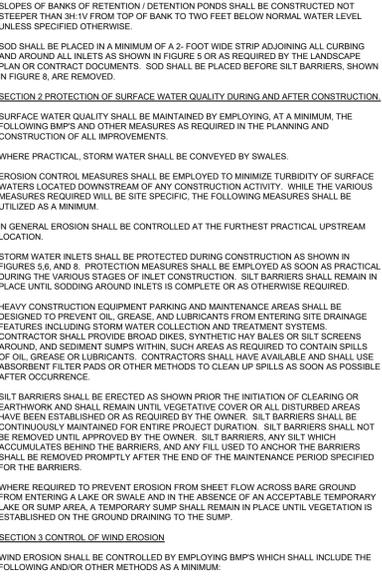


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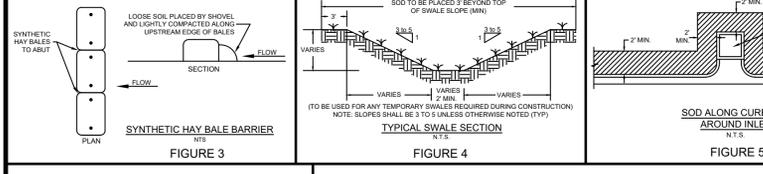


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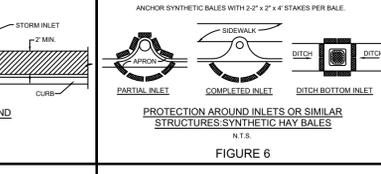


FIGURE 8

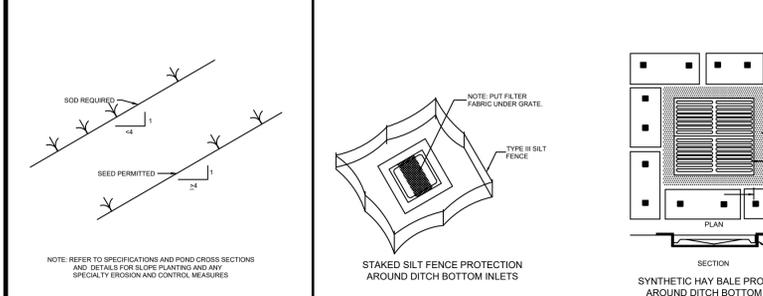


FIGURE 9

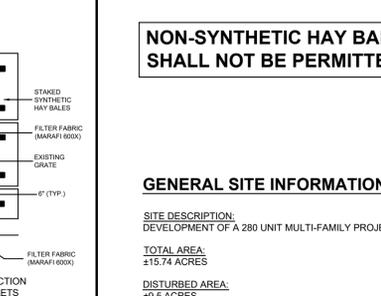


FIGURE 10

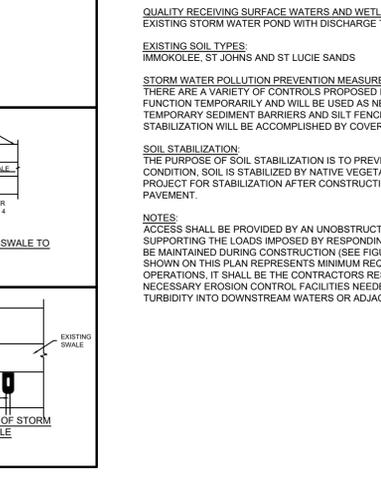


FIGURE 11

NOTE: SEE ** STORMWATER MANAGEMENT CRITERIA FOR MINIMUM STANDARDS.

THIS PLAN IS INTENDED TO COMPLY WITH APPROPRIATE CONDITIONS OF THE BREVARD COUNTY LAND DEVELOPMENT REGULATIONS, THE RULES OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, CHAPTER 1726, F.A.C., AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, DURING ALL CONSTRUCTION ACTIVITIES. THE PLAN ADDRESSES THE FOLLOWING AREAS:

- GENERAL EROSION CONTROL
- PROTECTION OF SURFACE WATER QUALITY DURING AND AFTER CONSTRUCTION
- CONTROL OF WIND EROSION

THE VARIOUS TECHNIQUES OR ACTIONS IDENTIFIED UNDER EACH SECTION INDICATE THE APPROPRIATE SITUATION WHEN THE TECHNIQUES SHOULD BE EMPLOYED. ALSO IDENTIFIED IS A CROSS-REFERENCE TO A DIAGRAM OR FIGURE REPRESENTING THE TECHNIQUE.

IT SHOULD BE NOTED THAT THE MEASURES IDENTIFIED ON THIS PLAN ARE ONLY SUGGESTED BMP(S). THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS REQUIRED BY NPDES AND AS NECESSARY FOR EACH SPECIFIC APPLICATION.

SECTION 1 GENERAL EROSION CONTROL

GENERAL EROSION CONTROL BMP'S SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION AND POTENTIAL LAKE SLOPE CAVE-INS. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED AS SOON AS POSSIBLE DURING CONSTRUCTION ACTIVITIES.

CLEARED SITE DEVELOPMENT AREAS NOT CONTINUALLY SCHEDULED FOR CONSTRUCTION ACTIVITIES SHALL BE COVERED WITH HAY OR SEEDING AND PERIODICALLY WATERED SUFFICIENTLY TO STABILIZE THE TEMPORARY GROUND COVER.

SLOPES OF BANKS OF RETENTION / DETENTION PONDS SHALL BE CONSTRUCTED NOT STEEPER THAN 3H:1V FROM TOP OF BANK TO TWO FEET BELOW NORMAL WATER LEVEL UNLESS SPECIFIED OTHERWISE.

SOD SHALL BE PLACED IN A MINIMUM OF A 2-FOOT WIDE STRIP ADJOINING ALL CURBING AND AROUND ALL INLETS AS SHOWN IN FIGURE 5 OR AS REQUIRED BY THE LANDSCAPE PLAN OR CONTRACT DOCUMENTS. SOD SHALL BE PLACED BEFORE SILT BARRIERS, SHOWN IN FIGURE 8, ARE REMOVED.

SECTION 2 PROTECTION OF SURFACE WATER QUALITY DURING AND AFTER CONSTRUCTION

SURFACE WATER QUALITY SHALL BE MAINTAINED BY EMPLOYING, AT A MINIMUM, THE FOLLOWING BMP'S AND OTHER MEASURES AS REQUIRED IN THE PLANNING AND CONSTRUCTION OF ALL IMPROVEMENTS.

WHERE PRACTICAL, STORM WATER SHALL BE CONVEYED BY SWALES.

EROSION CONTROL MEASURES SHALL BE EMPLOYED TO MINIMIZE TURBIDITY OF SURFACE WATERS LOCATED DOWNSTREAM OF ANY CONSTRUCTION ACTIVITY. WHILE THE VARIOUS MEASURES REQUIRED WILL BE SITE SPECIFIC, THE FOLLOWING MEASURES SHALL BE UTILIZED AS A MINIMUM.

IN GENERAL EROSION SHALL BE CONTROLLED AT THE FURTHEST PRACTICAL UPSTREAM LOCATION.

STORM WATER INLETS SHALL BE PROTECTED DURING CONSTRUCTION AS SHOWN IN FIGURES 5, 6, AND 8. PROTECTION MEASURES SHALL BE EMPLOYED AS SOON AS PRACTICAL DURING THE VARIOUS STAGES OF INLET CONSTRUCTION. SILT BARRIERS SHALL REMAIN IN PLACE UNTIL SODDING AROUND INLETS IS COMPLETE OR AS OTHERWISE REQUIRED.

HEAVY CONSTRUCTION EQUIPMENT PARKING AND MAINTENANCE AREAS SHALL BE DESIGNED TO PREVENT OIL, GREASE, AND LUBRICANTS FROM ENTERING SITE DRAINAGE FEATURES INCLUDING STORM WATER COLLECTION AND TREATMENT SYSTEMS. CONTRACTOR SHALL PROVIDE BROAD DIKES, SYNTHETIC HAY BALES OR SILT SCREENS AROUND, AND SEDIMENT Sumps WITHIN, SUCH AREAS AS REQUIRED TO CONTAIN SPILLS OF OIL, GREASE OR LUBRICANTS. CONTRACTORS SHALL HAVE AVAILABLE AND SHALL USE ABSORBENT FILTER PADS OR OTHER METHODS TO CLEAN UP SPILLS AS SOON AS POSSIBLE AFTER OCCURRENCE.

SILT BARRIERS SHALL BE ERECTED AS SHOWN PRIOR TO THE INITIATION OF CLEARING OR EARTHWORK AND SHALL REMAIN UNTIL VEGETATIVE COVER OR ALL DISTURBED AREAS HAVE BEEN ESTABLISHED OR AS REQUIRED BY THE OWNER. SILT BARRIERS SHALL BE CONTINUOUSLY MAINTAINED FOR ENTIRE PROJECT DURATION. SILT BARRIERS SHALL NOT BE REMOVED UNTIL APPROVED BY THE OWNER. SILT BARRIERS, ANY SILT WHICH ACCUMULATES BEHIND THE BARRIERS, AND ANY FILL USED TO ANCHOR THE BARRIERS SHALL BE REMOVED PROMPTLY AFTER THE END OF THE MAINTENANCE PERIOD SPECIFIED FOR THE BARRIERS.

WHERE REQUIRED TO PREVENT EROSION FROM SHEET FLOW ACROSS BARE GROUND FROM ENTERING A LAKE OR SWALE AND IN THE ABSENCE OF AN ACCEPTABLE TEMPORARY LAKE OR SUMP AREA, A TEMPORARY SUMP SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED ON THE GROUND DRAINING TO THE SUMP.

SECTION 3 CONTROL OF WIND EROSION

WIND EROSION SHALL BE CONTROLLED BY EMPLOYING BMP'S WHICH SHALL INCLUDE THE FOLLOWING AND/OR OTHER METHODS AS A MINIMUM:

BARE EARTH AREAS SHALL BE WATERED DURING CONSTRUCTION AS NECESSARY TO MINIMIZE THE TRANSPORT OF FUGITIVE DUST. IT MAY BE NECESSARY TO LIMIT CONSTRUCTION VEHICLE SPEED IF BARE EARTH HAS NOT BEEN EFFECTIVELY WATERED. IN NO CASE SHALL FUGITIVE DUST BE ALLOWED TO LEAVE THE SITE UNDER CONSTRUCTION.

AS SOON AS PRACTICAL AFTER COMPLETION OF CONSTRUCTION, BARE EARTH AREAS SHALL BE VEGETATED.

AT ANY TIME BOTH DURING AND AFTER SITE CONSTRUCTION THAT WATERING AND/OR VEGETATION ARE NOT EFFECTIVE IN CONTROLLING WIND EROSION AND/OR TRANSPORT OF FUGITIVE DUST, OTHER METHODS AS ARE NECESSARY FOR SUCH CONTROL SHALL BE EMPLOYED. THESE METHODS MAY INCLUDE ERECTION OF DUST CONTROL FENCES. IF REQUIRED, DUST CONTROL FENCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAIL FOR A SILT FENCE SHOWN IN FIGURE 1 EXCEPT THE MINIMUM HEIGHT SHALL BE 4 FEET.

SWPPP COORDINATOR DUTIES

THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING AND ALL OTHER REQUIREMENTS OF THE EPA, CDEP, SURWMD, AND BREVARD COUNTY REGULATIONS:

- MAINTAIN RECORDS OF CONSTRUCTION ACTIVITIES, INCLUDING:
 - DATES WHEN MAJOR GRADING ACTIVITIES OCCUR.
 - DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY CEASE ON A PORTION OF THE SITE.
 - DATES WHEN STABILIZATION MEASURES ARE INITIATED ON SITE.
- RECORDS MUST BE MAINTAINED AT THE JOB SITE.
- PREPARE INSPECTION REPORTS SUMMARIZING:
 - QUALIFICATIONS OF INSPECTOR.
 - DAILY RAINFALL TOTALS.
 - SEDIMENT BUILDUP WILL BE CLOSELY MONITORED AND REMOVED FROM INLET PROTECTION DEVICES TO ENSURE PROPER MANAGEMENT AND STORAGE CAPACITIES. SEDIMENT CONTROL DEVICES SHALL BE CLEANED OR REPLACED WHEN THE SEDIMENT CONTROL NO LONGER WORKS EFFECTIVELY AS DESIGNED.
 - CHANGES NECESSARY TO THE SWPPP.
- INSPECTIONS SHALL BE COMPLETED ON A WEEKLY BASIS, AND AFTER RAINFALL EVENTS EXCEEDING 1/2" INTENSITY.
- A SAMPLE INSPECTION FORM SHALL BE SUPPLIED TO THE CONTRACTOR FOR HIS USE. CONTRACTOR MUST UTILIZE THIS INSPECTION FORM OR AN APPROVED EQUIVALENT.
- CONTRACTOR MUST EXECUTE NPDES CERTIFICATION FORM AND INSURE THAT ALL SUBCONTRACTORS RESPONSIBLE FOR EROSION CONTROL MEASURES EXECUTE THE NPDES CERTIFICATION FORM. COPIES OF THIS CERTIFICATION MUST BE PROVIDED TO THE OWNER PRIOR TO THE START OF ANY NEW CONSTRUCTION, AND COPIES SHALL BE MAINTAINED AT THE JOB SITE.
- REPORT RELEASES OF REPORTABLE QUANTITIES OF OIL OR HAZARDOUS MATERIALS (IF THEY OCCUR):
 - NOTIFY NATIONAL RESPONSE CENTER @ 1-800-424-8802.
 - NOTIFY PERMITTING AUTHORITY IN WRITING WITHIN 14 DAYS.
 - NOTIFY THE POLLUTION PREVENTION PLAN TO INCLUDE IMPROVED MANAGEMENT CONTROLS.
- MODIFY THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AS NECESSARY TO:
 - COMPLY WITH MINIMUM PERMIT REQUIREMENTS WHEN NOTIFIED BY THE EPA, ADDRESS CHANGES IN DESIGN, CONSTRUCTION OPERATION OR MAINTENANCE WHICH HAVE AN EFFECT ON THE POTENTIAL FOR DISCHARGE OF POLLUTANTS INTO STATE WATERS.
 - PREVENT REOCCURRENCE OF REPORTABLE QUANTITY RELEASES HAZARDOUS MATERIAL, OIL, AND/OR FUEL.
- AT THE COMPLETION OF THE PROJECT AND AS A CONDITION OF FINAL PAYMENT, CONTRACTOR SHALL PROVIDE THE OWNER WITH TWO COPIES OF THE ABOVE DESCRIBED REPORTS IN A CONSOLIDATED REPORT FORMAT: THREE RING BINDERS OR EQUIVALENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING AND MAINTAINING A COPY OF DEP DOCUMENT NO. 62-621.300(A). THIS PERMIT IS THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION GENERAL PERMIT FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES THAT DISTURB ONE OR MORE ACRES OF LAND.
- ALL FERTILIZERS, HERBICIDES, AND PESTICIDES TO BE APPLIED, STORED, AND DISPOSED OF PER THE MANUFACTURER RECOMMENDATIONS.
- CONTRACTOR IS RESPONSIBLE TO ASSURE THAT ALL WASTE, SUCH AS DISCARDED BUILDING MATERIALS, CHEMICALS, LITTER, AND SANITARY WASTE ARE PROPERLY CONTROLLED AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL, AND FEDERAL REGULATIONS.

GENERAL MAINTENANCE PLAN

THE FOLLOWING MAINTENANCE PLAN IS GENERAL IN NATURE AND IS INTENDED TO PROVIDE A GUIDELINE FOR THE CONTRACTOR. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COMPLETE THE PROJECT IN CONFORMANCE WITH THE NPDES STANDARDS AND APPROVED PLANS AND PERMITS.

SHORT TERM:

- ALL EROSION CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY 1/2" RAINFALL EVENT, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ALL NEEDED REPAIRS WILL BE RECORDED AND MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
- SEDIMENT BUILDUP WILL BE CLOSELY MONITORED AND REMOVED FROM INLET PROTECTION DEVICES TO ENSURE PROPER MANAGEMENT AND STORAGE CAPACITIES. SEDIMENT CONTROL DEVICES SHALL BE CLEANED OR REPLACED WHEN THE SEDIMENT CONTROL NO LONGER WORKS EFFECTIVELY AS DESIGNED.
- THE SEDIMENT CONTROLLING SILT FENCE SHALL BE MAINTAINED AND/OR REPLACED AS NECESSARY TO MAINTAIN A BARRIER.
- ALL SEEDED AREAS SHALL BE RESEED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VEGETATIVE COVER, ADEQUATE TO PREVENT EROSION TO OFFSITE AREAS.
- AS NEEDED, NEW OR ADDITIONAL WORKERS WILL BE INFORMED OF THE PLAN DETAILS IN THE OPERATION AND MAINTENANCE OF PLAN FEATURES.

LONG TERM:

- ALL VEGETATED AREAS WILL BE MAINTAINED IN ADEQUATE CONDITION TO PROVIDE PROPER GROUND COVER, THEREBY REDUCING EROSION POTENTIAL.
- AREAS WHERE VEGETATION IS LOST WILL BE REESTABLISHED AND MAINTAINED AS NECESSARY TO RESTORE PROPER GROUND COVER.
- STRUCTURAL MEASURES WILL BE EXAMINED AT LEAST ANNUALLY AND MAINTENANCE PERFORMED AS NEEDED.

COMPLY WITH MINIMUM PERMIT REQUIREMENTS WHEN NOTIFIED BY THE EPA, ADDRESS CHANGES IN DESIGN, CONSTRUCTION OPERATION OR MAINTENANCE WHICH HAVE AN EFFECT ON THE POTENTIAL FOR DISCHARGE OF POLLUTANTS INTO STATE WATERS.

PREVENT REOCCURRENCE OF REPORTABLE QUANTITY RELEASES HAZARDOUS MATERIAL, OIL, AND/OR FUEL.

AT THE COMPLETION OF THE PROJECT AND AS A CONDITION OF FINAL PAYMENT, CONTRACTOR SHALL PROVIDE THE OWNER WITH TWO COPIES OF THE ABOVE DESCRIBED REPORTS IN A CONSOLIDATED REPORT FORMAT: THREE RING BINDERS OR EQUIVALENT.

CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING AND MAINTAINING A COPY OF DEP DOCUMENT NO. 62-621.300(A). THIS PERMIT IS THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION GENERAL PERMIT FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES THAT DISTURB ONE OR MORE ACRES OF LAND.

ALL FERTILIZERS, HERBICIDES, AND PESTICIDES TO BE APPLIED, STORED, AND DISPOSED OF PER THE MANUFACTURER RECOMMENDATIONS.

CONTRACTOR IS RESPONSIBLE TO ASSURE THAT ALL WASTE, SUCH AS DISCARDED BUILDING MATERIALS, CHEMICALS, LITTER, AND SANITARY WASTE ARE PROPERLY CONTROLLED AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL, AND FEDERAL REGULATIONS.

GENERAL CONSTRUCTION SEQUENCING PLAN

THE FOLLOWING CONSTRUCTION SEQUENCING IS GENERAL IN NATURE AND IS INTENDED TO PROVIDE A GUIDELINE FOR THE CONTRACTOR. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COMPLETE THE PROJECT IN CONFORMANCE WITH THE NPDES STANDARDS AND APPROVED PLANS AND PERMITS.

- OBTAIN PLAN APPROVAL AND OTHER APPLICABLE PERMITS.
- FLAG THE WORK LIMITS OF CONSTRUCTION AND IDENTIFY AREAS NOT TO BE DISTURBED.
- HOLD PRE CONSTRUCTION CONFERENCE AT LEAST ONE WEEK PRIOR TO STARTING CONSTRUCTION. WEEKLY REVIEWS OF EROSION, SEDIMENT, AND STORM WATER CONTROLS WILL BE CONDUCTED. REVIEWS WILL ALSO BE CONDUCTED WITHIN 24 HOURS FOLLOWING ALL RAIN EVENTS EXCEEDING 1/2" INTENSITY.
- INSTALL SEDIMENT CONTROLS AS THE FIRST CONSTRUCTION ACTIVITY.
- INSTALL STORM DRAIN WITH STABILIZED INLET PROTECTION AT THE CONSTRUCTION ENTRANCE/EXIT.
- INSTALL TEMPORARY STABILIZED CONSTRUCTION ENTRANCE/EXIT.
- COMPLETE SITE CLEARING EXCEPT FOR AREAS DESIGNATED NOT TO BE DISTURBED.
- ROUGH GRADE SITE, STOCKPILE TOPSOIL, CONSTRUCT WATERWAYS, INSTALL CULVERTS AND OUTLET PROTECTION (INSTALL SEDIMENT CONTROLS AND SILT FENCING AS NEEDED). BARE AREAS OF EXPOSED LAND SHALL BE MULCHED AND SEEDED ONCE GRADING HAS BEEN COMPLETED.
- FINISH THE SLOPES AROUND BUILDING DIRT PADS AS SOON AS ROUGH GRADING IS COMPLETE.
- COMPLETE FINAL GRADING FOR ROADS AND STABILIZE WITH APPROVED MATERIAL.
- COMPLETE FINAL GRADING OF GROUNDS, TOPSOIL CRITICAL AREAS, AND PERMANENTLY VEGETATE, LANDSCAPE, AND MULCH.
- ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED WEEKLY AND FOLLOWING 1/2" RAINFALL EVENTS. NEEDED REPAIRS WILL BE RECORDED WITHIN 24 HOURS, AND CORRECTED IMMEDIATELY.
- AFTER SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES AND INSTALL PERMANENT VEGETATION ON THE DISTURBED AREAS.

B.S.E. CONSULTANTS, INC.
CONSULTING - ENGINEERING - LAND SURVEYING

312 SOUTH HARBOR CITY BOULEVARD, SUITE 4
MELBOURNE, FLORIDA 32901
PHONE: (321) 725-3674 FAX: (321) 725-1159

CERTIFICATE OF PROFESSIONAL ENGINEERS
BUSINESS AUTHORIZATION: #005
CERTIFICATE OF LAND SURVEYING
BUSINESS AUTHORIZATION: LB0049005

SCOTT M. GLAUBITZ, P.E. & P.L.S.
STATE OF FLORIDA, No. 33559 No. 4151

HASSAN A. KAMAL, P.E.
STATE OF FLORIDA, No. 41951

CONTRACTORS CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND AND SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.

NAME: _____
TITLE: _____
COMPANY NAME: _____
COMPANY ADDRESS: _____
COMPANY PHONE #: _____
PROJECT SITE DESCRIPTION: _____

SIGNATURE: _____
DATE OF CERTIFICATION: _____

ENGINEERS CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

NAME: Scott M. Glaubitz, P.E./Hassan Kamal, P.E.
TITLE: President/Vice President
COMPANY NAME: B.S.E. Consultants, Inc.
COMPANY ADDRESS: 312 S. Harbor City Blvd., Suite 4
Melbourne, Florida 32901
COMPANY PHONE #: (321) 725-3674

SIGNATURE: _____
DATE OF CERTIFICATION: _____

CORPORATE OFFICERS CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

NAME: _____
TITLE: _____
COMPANY NAME: _____
COMPANY ADDRESS: _____
COMPANY PHONE #: _____
PROJECT SITE DESCRIPTION: _____

SIGNATURE: _____
DATE OF CERTIFICATION: _____

NON-SYNTHETIC HAY BALES SHALL NOT BE PERMITTED

GENERAL SITE INFORMATION

SITE DESCRIPTION:
DEVELOPMENT OF A 280 UNIT MULTI-FAMILY PROJECT

TOTAL AREA: 15.74 ACRES
DISTURBED AREA: 49.5 ACRES

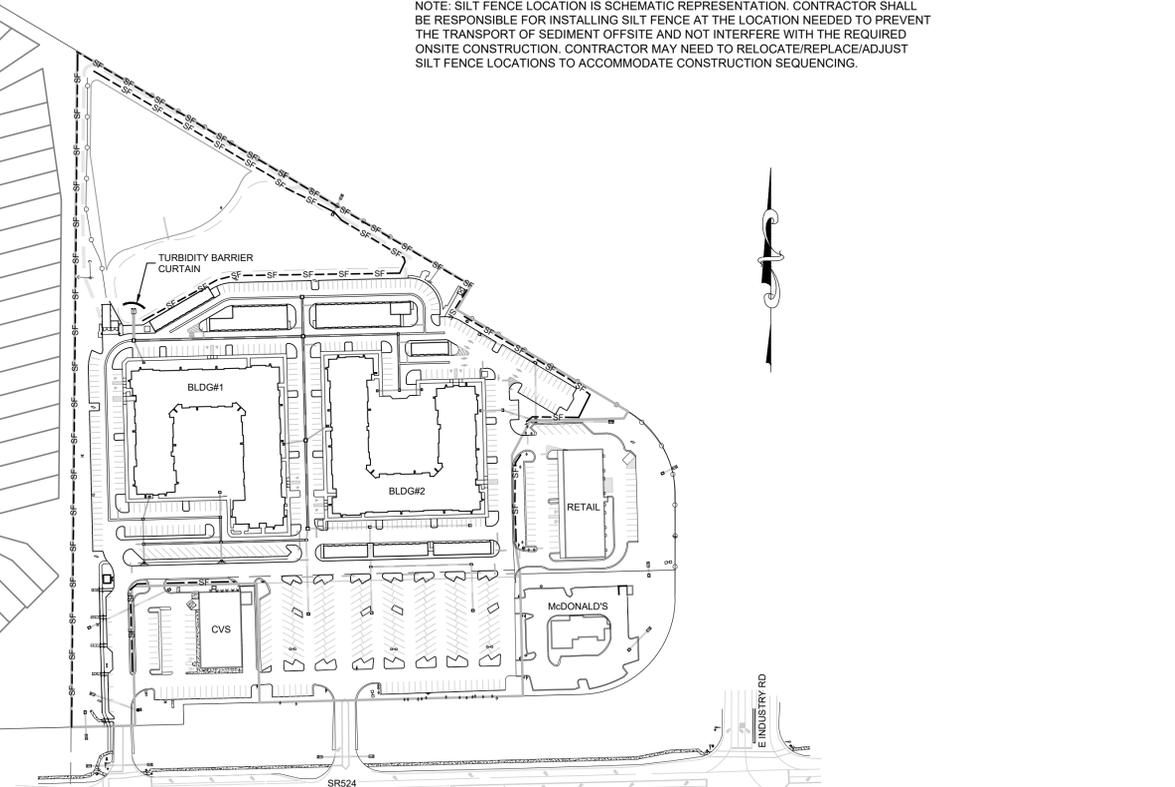
QUALITY RECEIVING SURFACE WATERS AND WETLANDS:
EXISTING STORM WATER POND WITH DISCHARGE TO FDOT DITCH

EXISTING SOIL TYPES:
IMMOKOLEE, ST JOHNS AND ST LUCIE SANDS

STORM WATER POLLUTION PREVENTION MEASURES & CONTROLS:
THERE ARE A VARIETY OF CONTROLS PROPOSED FOR THIS SITE. SOME CONTROLS ARE INTENDED TO FUNCTION TEMPORARILY AND WILL BE USED AS NEEDED FOR POLLUTANT CONTROL. THESE INCLUDE TEMPORARY SEDIMENT BARRIERS AND SILT FENCES. FOR MOST DISTURBED AREAS, PERMANENT STABILIZATION WILL BE ACCOMPLISHED BY COVERING THE SOIL WITH PAVEMENT OR VEGETATION.

SOIL STABILIZATION:
THE PURPOSE OF SOIL STABILIZATION IS TO PREVENT SOIL FROM LEAVING THE SITE. IN THE NATURAL CONDITION, SOIL IS STABILIZED BY NATIVE VEGETATION. THE PRIMARY TECHNIQUES TO BE USED AT THIS PROJECT FOR STABILIZATION AFTER CONSTRUCTION WILL BE TO PROVIDE PROTECTIVE TURF GRASS OR PAVEMENT.

NOTES:
ACCESS SHALL BE PROVIDED BY AN UNOBSTRUCTED ALL WEATHER DRIVING SURFACE CAPABLE OF SUPPORTING THE LOADS IMPOSED BY RESPONDING APPARATUS OF NOT LESS THAN 20 FEET AND SHALL BE MAINTAINED DURING CONSTRUCTION (SEE FIGURE 2). THE LOCATION OF EROSION CONTROL FEATURES SHOWN ON THIS PLAN REPRESENTS MINIMUM REQUIREMENTS. DEPENDING UPON THE CONTRACTORS OPERATIONS, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN ANY NECESSARY EROSION CONTROL FACILITIES NEEDED TO CONTROL EROSION OR THE DISCHARGE OF TURBIDITY INTO DOWNSTREAM WATERS OR ADJACENT PROPERTY.



CITY COMMENTS	01/28/21
CITY COMMENTS	10/30/20
DATE:	08/31/20
DESIGN/DRAWN:	ALS/DRB
PROJECT TITLE	
CIRRUS	
SHEET TITLE	
STORM WATER POLLUTION PREVENTION PLAN (SWPPP)	
PROJECT NO.	11545
DRAWING NO.	11545_400_004
SHEET	
4 of 19	

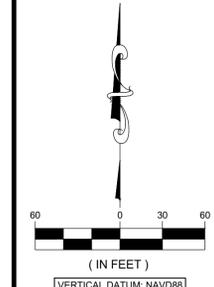


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LAND SURVEYING

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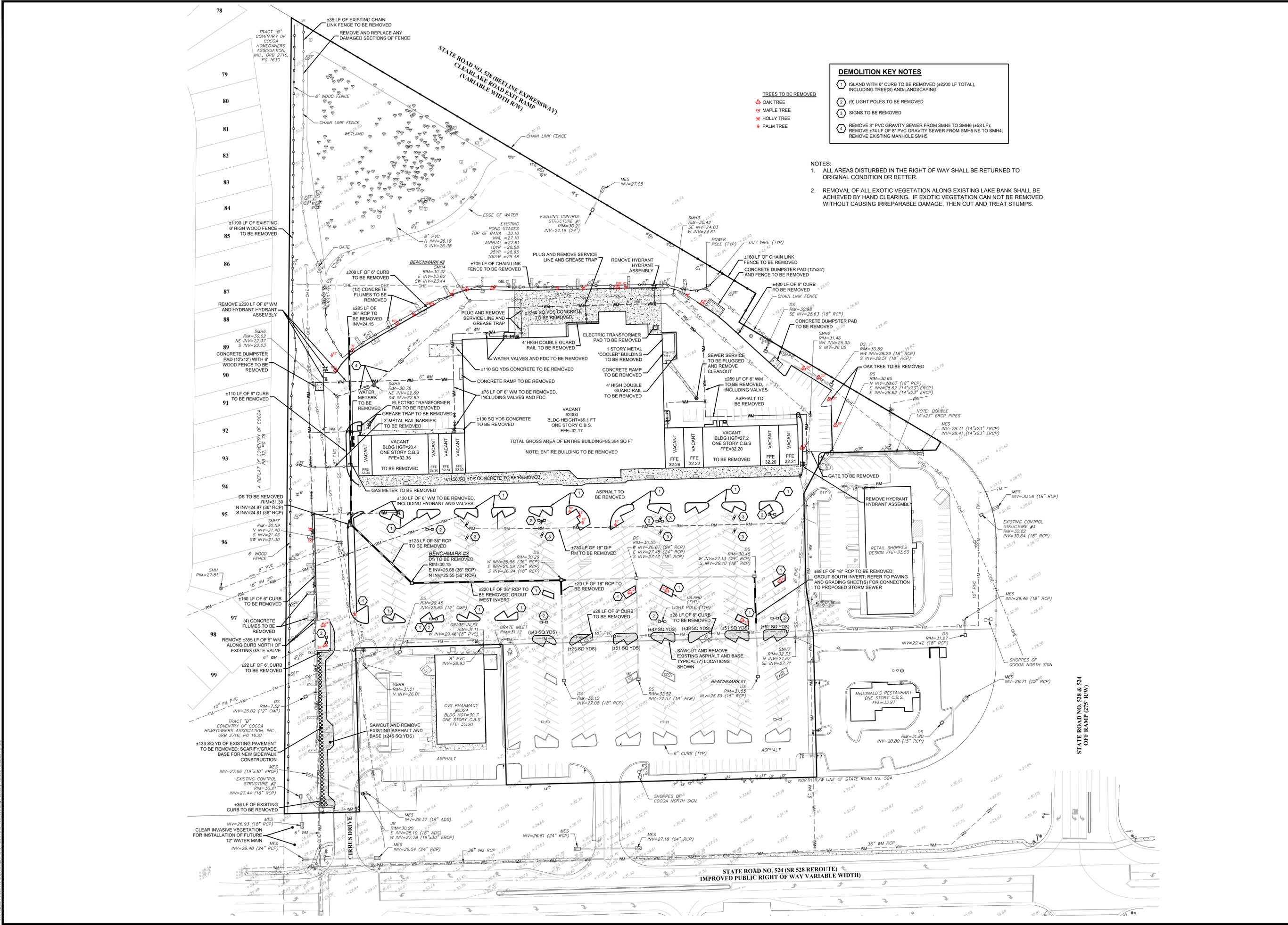


DATE:	08/31/20
DESIGN/DRAWN:	ALS/DRB
CITY COMMENTS:	01/28/21
CITY COMMENTS:	10/30/20

PROJECT TITLE
CIRRUS

SHEET TITLE
DEMOLITION PLAN

PROJECT NO.
11545
DRAWING NO.
11545_400_005
SHEET
5 of 19



DEMOLITION KEY NOTES

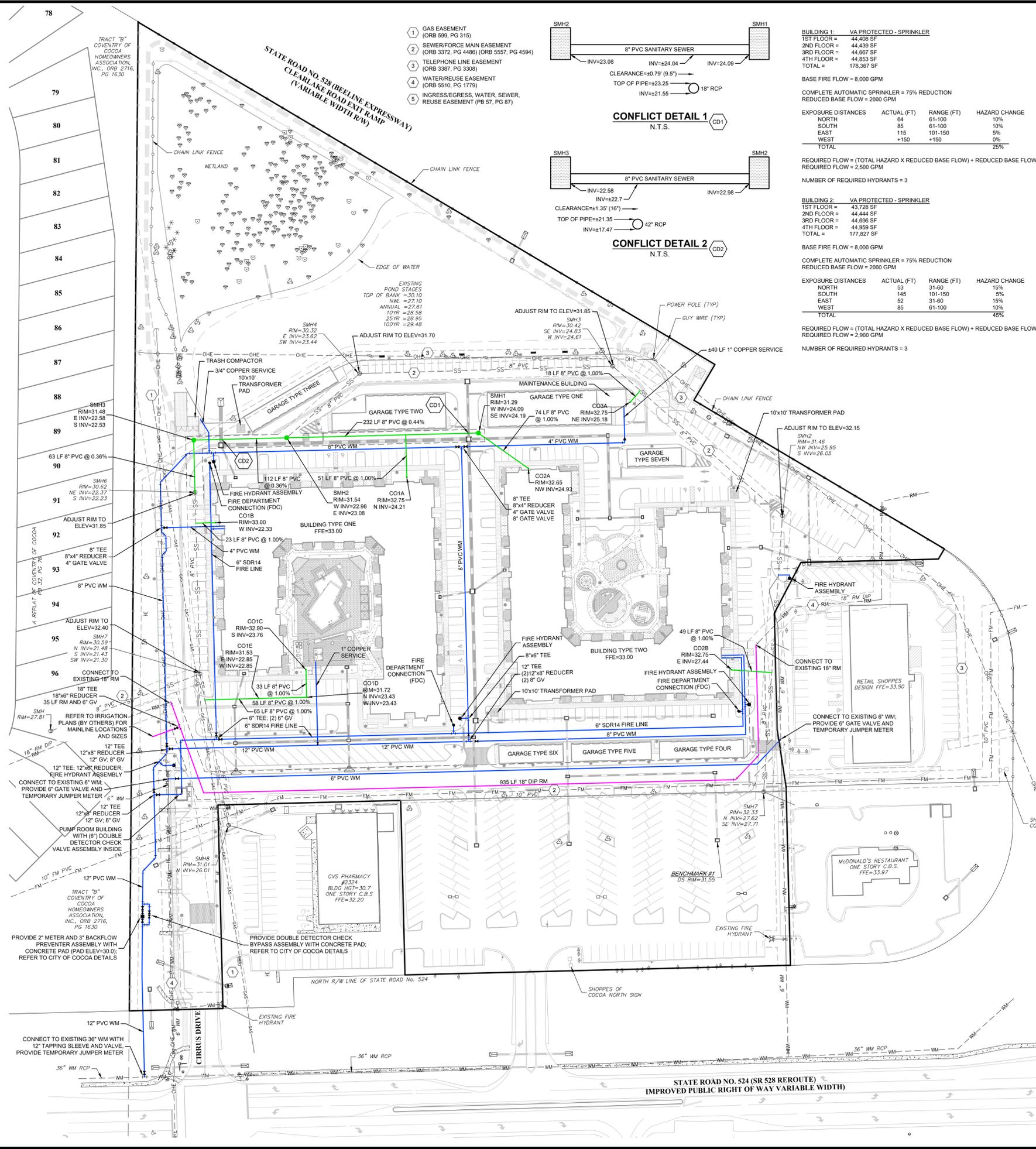
- 1 ISLAND WITH 6" CURB TO BE REMOVED (±2200 LF TOTAL), INCLUDING TREE(S) AND LANDSCAPING
- 2 (9) LIGHT POLES TO BE REMOVED
- 3 SIGNS TO BE REMOVED
- 4 REMOVE 8" PVC GRAVITY SEWER FROM SMH5 TO SMH6 (±58 LF); REMOVE ±74 LF OF 8" PVC GRAVITY SEWER FROM SMH5 NE TO SMH4; REMOVE EXISTING MANHOLE SMH5

- TREES TO BE REMOVED**
- OAK TREE
 - ◇ MAPLE TREE
 - ◇ HOLLY TREE
 - ◇ PALM TREE

- NOTES:**
1. ALL AREAS DISTURBED IN THE RIGHT OF WAY SHALL BE RETURNED TO ORIGINAL CONDITION OR BETTER.
 2. REMOVAL OF ALL EXOTIC VEGETATION ALONG EXISTING LAKE BANK SHALL BE ACHIEVED BY HAND CLEARING. IF EXOTIC VEGETATION CAN NOT BE REMOVED WITHOUT CAUSING IRREPARABLE DAMAGE, THEN CUT AND TREAT STUMPS.

H:\Projects\11545\11545.dwg February 10, 2021 2:22:28 PM DRB

SYMBOLS SHOWN ARE GRAPHIC IN NATURE; DUE TO SCALE. ALL DESIGN ELEMENTS ARE NOT NECESSARILY SHOWN ON PLAN VIEWS. THE CONTRACTOR SHALL ALSO REFER TO SPECIFICATION AND DETAIL SHEETS AS WELL AS THE COMPLETE PLAN SET.



- CITY OF COCOA GENERAL NOTES:**
- ALL WATER MAIN CONSTRUCTION SHALL BE PER CITY OF COCOA CRITERIA.
 - VALVE AND TEE LOCATIONS ARE SHOWN FOR GRAPHIC CLARITY ONLY. (PER CITY OF COCOA CRITERIA, ALL VALVES SHALL BE LOCATED ADJACENT TO TEES (WITHIN 2') WHEREVER POSSIBLE, UNLESS SPECIFICALLY LOCATED OTHERWISE.
 - WHERE APPLICABLE ALL BLOWOFFS TO BE PLACED AT PROPERTY LINE. IF OTHER FACILITIES CONFLICT (I.E. STORM DRAINAGE) BLOWOFFS TO BE SET WITHIN 3' OF PROPERTY LINE. ALL BLOWOFFS SHALL BE BRASS PER THE CITY OF COCOA CRITERIA.
 - THE FIRE HYDRANT ASSEMBLIES SHALL CONSIST OF A HYDRANT TEE, GATE VALVE, AND FIRE HYDRANT. THE GATE VALVE IS TO BE PLACED AT THE HYDRANT TEE. THIS NOTE ALSO APPLIES TO THOSE LOCATIONS WHERE THE HYDRANT IS LOCATED ACROSS THE STREET FROM THE MAIN LINE.
 - ANY SERVICE LINE LONGER THAN 60 FEET IN LENGTH WILL NEED TO BE 1". ALL OTHER SERVICE LINES SHALL BE 3/4".
 - SERVICE LINE SHALL CONSIST OF A BRONZE SERVICE SADDLE, CORPORATION STOP, TYPE "K" COPPER, AND CURB STOP.
 - UNLESS OTHERWISE NOTED ALL POTABLE WATER SERVICES TO BE 1" COPPER.
 - WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLE MATERIALS BEING BROUGHT ON SITE.
 - ALL WATER MAINS SHALL BE SWABBED PER CITY OF COCOA CRITERIA.
 - TEMPORARY BLOWOFF TO CONSIST OF GATE VALVE, 20 LF OF M.J. DIP, AND 2" (PIPE SIZE 2"-10") OR 4" (PIPE SIZE 12" AND LARGER) BLOWOFF. SEE CITY OF COCOA DETAIL.
 - SITE CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING THE POTABLE WATER SERVICE TO THE LOCATIONS SHOWN, WHICH REPRESENT FUTURE WATER METER LOCATIONS. BUILDING CONTRACTOR TO EXTEND SERVICE FROM METER LOCATION TO THE BUILDING(S).
 - FIRE HYDRANTS SHALL BE AMERICAN FLOW CONTROL MODEL #B-84-B; 6" AMERICAN DARLING 5 1/4", MUELLER SUPER CENTURION 250 5 1/4" OR CLOW MEDALLION 5 1/4".
 - A TAPPING CONTRACTOR ACCEPTABLE TO THE CITY OF COCOA IS REQUIRED FOR TAPS.
 - A UTILITY CONTRACTOR IS REQUIRED FOR WATER MAIN INSTALLATION.
 - ALL 2" BLOWOFFS SHALL BE CONSTRUCTED OF BRASS PER CITY OF COCOA CRITERIA.

- BREVARD COUNTY FIRE PREVENTION STANDARD NOTES:**
- WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLE MATERIALS BEING BROUGHT ON SITE.
 - FIRE HYDRANTS SHALL BE INDICATED WITH A BLUE ROADWAY REFLECTOR, PLACED 1 FOOT OFF THE CENTERLINE OF THE ROAD FACING THE HYDRANT. THIS INCLUDES NEW AND EXISTING SOURCES.
 - LANDSCAPING SHALL NOT BE LOCATED WITHIN 7.5 FEET SIDE & FRONT AND 4.5' TO THE REAR OF ANY FIRE HYDRANT OR FIRE DEPARTMENT CONNECTION. LANDSCAPING SHALL NOT VISIBLY OR PHYSICALLY OBSTRUCT FIRE HYDRANT LOCATIONS.
 - ACCESS SHALL BE PROVIDED BY AN UNOBSTRUCTED ALL WEATHER DRIVING SURFACE CAPABLE OF SUPPORTING THE LOADS IMPOSED BY RESPONDING APPARATUS (32 TONS) AND BE NOT LESS THAN 20 FEET IN WIDTH, AND SHALL BE MAINTAINED DURING CONSTRUCTION.
 - ALL HYDRANTS SHALL BE READILY ACCESSIBLE WITHOUT THE NEED TO TRAVERSE SWALES, DITCHES, ETC.
 - NEW FIRE HYDRANTS SHALL BE POSITIONED NOT MORE THAN 8', NOR LESS THAN 6' OFF THE EDGE OF PAVEMENT. THE CENTERLINE OF THE STEAMER CONNECTION (4 1/2") SHALL BE POSITIONED BETWEEN 18" - 24" ABOVE THE FINISHED GRADE.
 - ALL CONTROL VALVES FOR ANY FIRE SPRINKLER SYSTEM SHALL BE ELECTRONICALLY MONITORED.

- GENERAL NOTES:**
- EXISTING UNDERGROUND UTILITIES SHALL BE RELOCATED AS REQUIRED.
- GENERAL FIRE NOTES**
- NFPA 1 18.2.4.1.1 "THE REQUIRED WIDTH OF A FIRE DEPARTMENT ACCESS ROAD SHALL NOT BE OBSTRUCTED IN ANY MANNER, INCLUDING BY THE PARKING OF VEHICLES."
 - NFPA 1 18.5.7.1 a 36 IN. (914 MM) CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF FIRE HYDRANTS EXCEPT AS OTHERWISE REQUIRED OR APPROVED.
 - NFPA 1 18.5.7.2 a CLEAR SPACE OF NOT LESS THAN 60 IN. (1524 MM) SHALL BE PROVIDED IN FRONT OF EACH HYDRANT CONNECTION HAVING A DIAMETER GREATER THAN 2-1/2 IN. (64 MM).

PIPE DEFLECTION NOTES
 ALL PIPE DEFLECTIONS SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS AND AWWA REQUIREMENTS FOR MAXIMUM DEFLECTION. CONTRACTOR SHALL INCORPORATE THE APPROPRIATE FITTINGS ON PIPE DEFLECTIONS (IN ACCORDANCE WITH PIPE MANUFACTURER'S RECOMMENDATIONS) TO COMPLETE THE INSTALLATION OF ALL WATER MAIN PIPES CONSISTENT WITH THE LOCATIONS DEPICTED UPON THESE PLANS.

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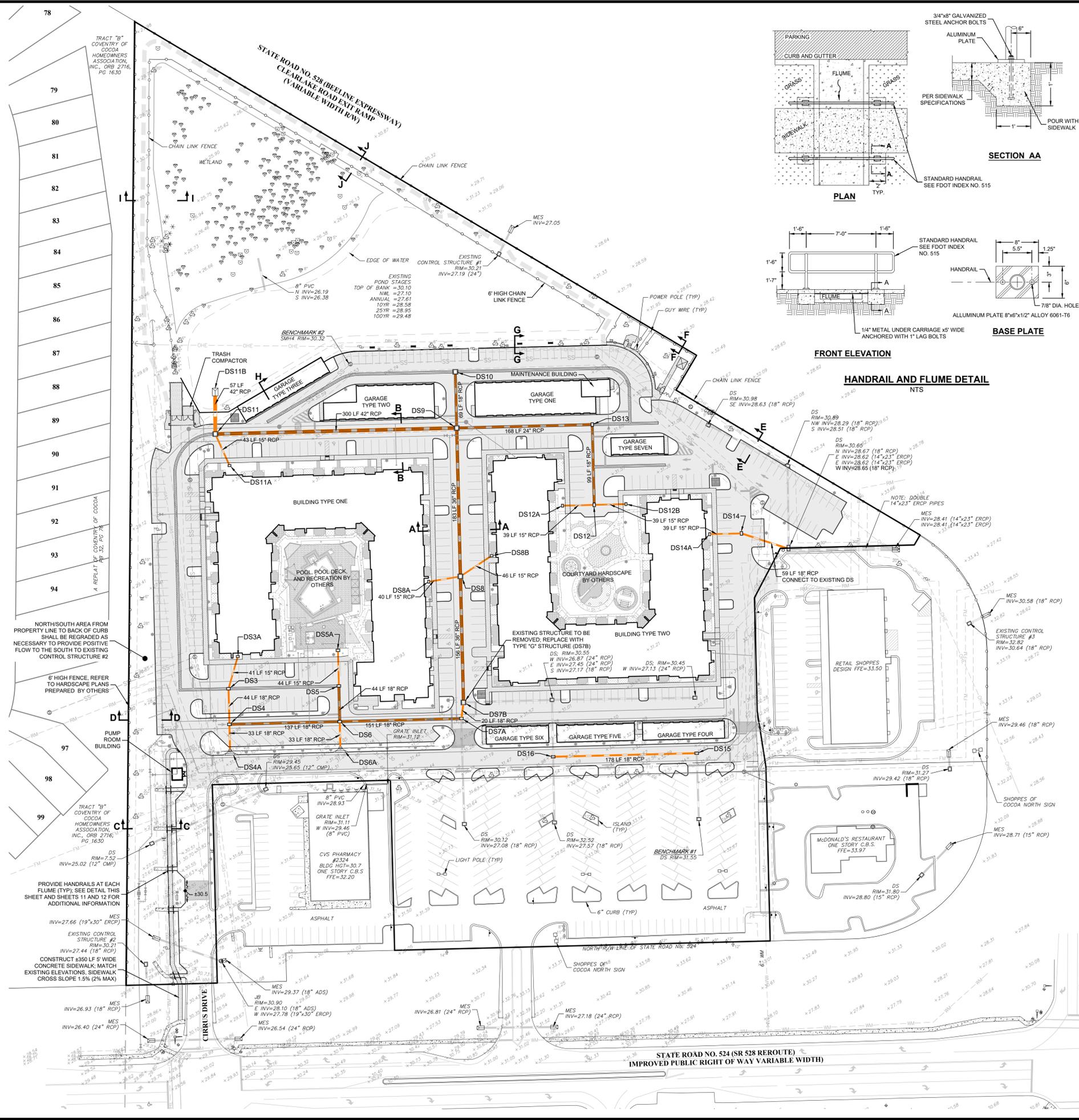
HASSAN A. KAMAL, P.E.
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60 0 30 60
 (IN FEET)
 VERTICAL DATUM: NAVD83

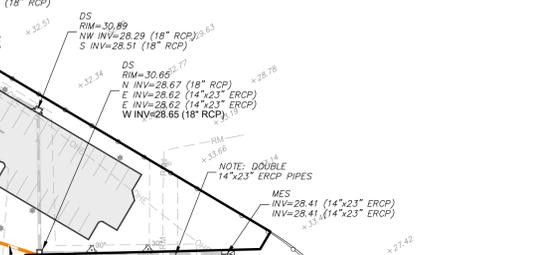
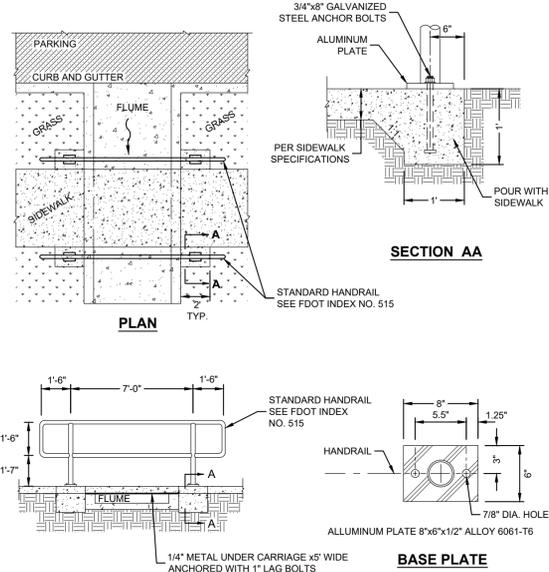
CITY COMMENTS	01/28/21
CITY COMMENTS	10/30/20
DATE:	08/31/20
DESIGN/DRAWN:	ALS/DRB
PROJECT TITLE	
CIRRUS	
SHEET TITLE	
UTILITY PLAN	
PROJECT NO.	
11545	
DRAWING NO.	
11545_400_009	
SHEET	
9 of 19	

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SYMBOLS SHOWN ARE GRAPHIC IN NATURE; DUE TO SCALE. ALL DESIGN ELEMENTS ARE NOT NECESSARILY SHOWN ON PLAN VIEWS. THE CONTRACTOR SHALL ALSO REFER TO SPECIFICATION AND DETAIL SHEETS AS WELL AS THE COMPLETE PLAN SET.



DRAINAGE STRUCTURE TABLE						
NAME	DESCRIPTION	TOP ELEVATION	INVERTS	SIZE	PIPE LENGTH (FEET)	TO
DS3	TYPE F	31.00	S = 27.05 N = 27.30	18" RCP	44	DS4
DS3A	TYPE C	31.85	S = 27.50	15" RCP	41	DS3
DS4	TYPE F	31.00	N = 26.85 E = 26.85 S = 26.85	18" RCP	137	DS6
DS4A	TYPE 4	31.37	N = 27.00	18" RCP	33	DS4
DS5	TYPE F	31.00	N = 26.40 S = 26.40	15" RCP	44	DS6
DS5A	TYPE F	31.50	S = 26.75	15" RCP	44	DS5
DS6	TYPE F	31.00	W = 26.15 E = 26.15 N = 26.15 S = 26.15	18" RCP	151	DS7A
DS6A	TYPE 4	31.37	N = 26.50	18" RCP	33	DS6
DS7A	TYPE F	31.00	N = 25.40 N = 26.40 S = 26.95	18" RCP	20	DS7B
DS7B	TYPE G	31.30	S = 25.30 N = 23.80 E = 26.00	18" RCP 36" RCP 24" RCP	156	DS8
DS8	TYPE G	31.00	S = 23.00 N = 23.00 W = 24.75 NE = 24.75	36" RCP 36" RCP 15" RCP	183	DS9
DS8A	TYPE C	31.50	E = 25.00	15" RCP	40	DS8
DS8B	TYPE C	31.50	SW = 25.00	15" RCP	46	DS8
DS9	TYPE G	31.10	S = 20.00 N = 21.50 E = 21.00 W = 19.50	36" RCP 18" RCP 24" RCP 42" RCP	300	DS11
DS10	TYPE G	31.00	S = 22.00	18" RCP	69	DS9
DS11	TYPE G	31.15	N = 17.50 SE = 27.50 E = 17.50	42" RCP 15" RCP 42" RCP	57	DS11B
DS11A	TYPE C	31.75	NW = 27.80	15" RCP	43	DS11
DS11B	MES	N = 17.25		42" RCP		
DS12	TYPE F	31.00	N = 25.00 W = 25.75 E = 25.75	18" RCP 15" RCP 15" RCP	99	DS13
DS12A	TYPE C	31.55	E = 26.00	15" RCP	39	DS12
DS12B	TYPE C	31.80	W = 26.00	15" RCP	39	DS12
DS13	TYPE F	31.30	S = 24.00 W = 23.50	18" RCP 24" RCP	168	DS9
DS14	TYPE F	31.00	E = 28.80 W = 28.80	18" RCP 15" RCP	59	
DS14A	TYPE C	31.50	E = 29.00	15" RCP	39	DS14
DS15	TYPE F	31.75	W = 28.25 S = 28.25	18" RCP 18" RCP	178	DS16
DS16	TYPE F	32.00	E = 27.35 S = 27.35 N = 27.35	18" RCP 18" RCP 18" RCP		



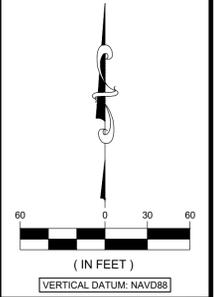
- NOTES:**
- HP STORM PIPE (HIGH-PERFORMANCE POLYPROPYLENE PIPE) MAY BE USED IN LIEU OF REINFORCED CONCRETE PIPE (RCP).
 - REFER TO SHEET 12 FOR SECTION DETAILS: (A-A, B-B, C-C, D-D, E-E, F-F, G-G, H-H, I-I, J-J)



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DATE:	08/31/20
DESIGN/DRAWN:	ALS/DRB
CITY COMMENTS:	01/28/21
CITY COMMENTS:	10/30/20

PROJECT TITLE
CIRRUS

SHEET TITLE
OVERALL PAVING, GRADING, AND DRAINAGE PLAN

PROJECT NO.
11545
DRAWING NO.
11545_400_010
SHEET



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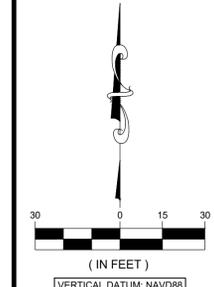
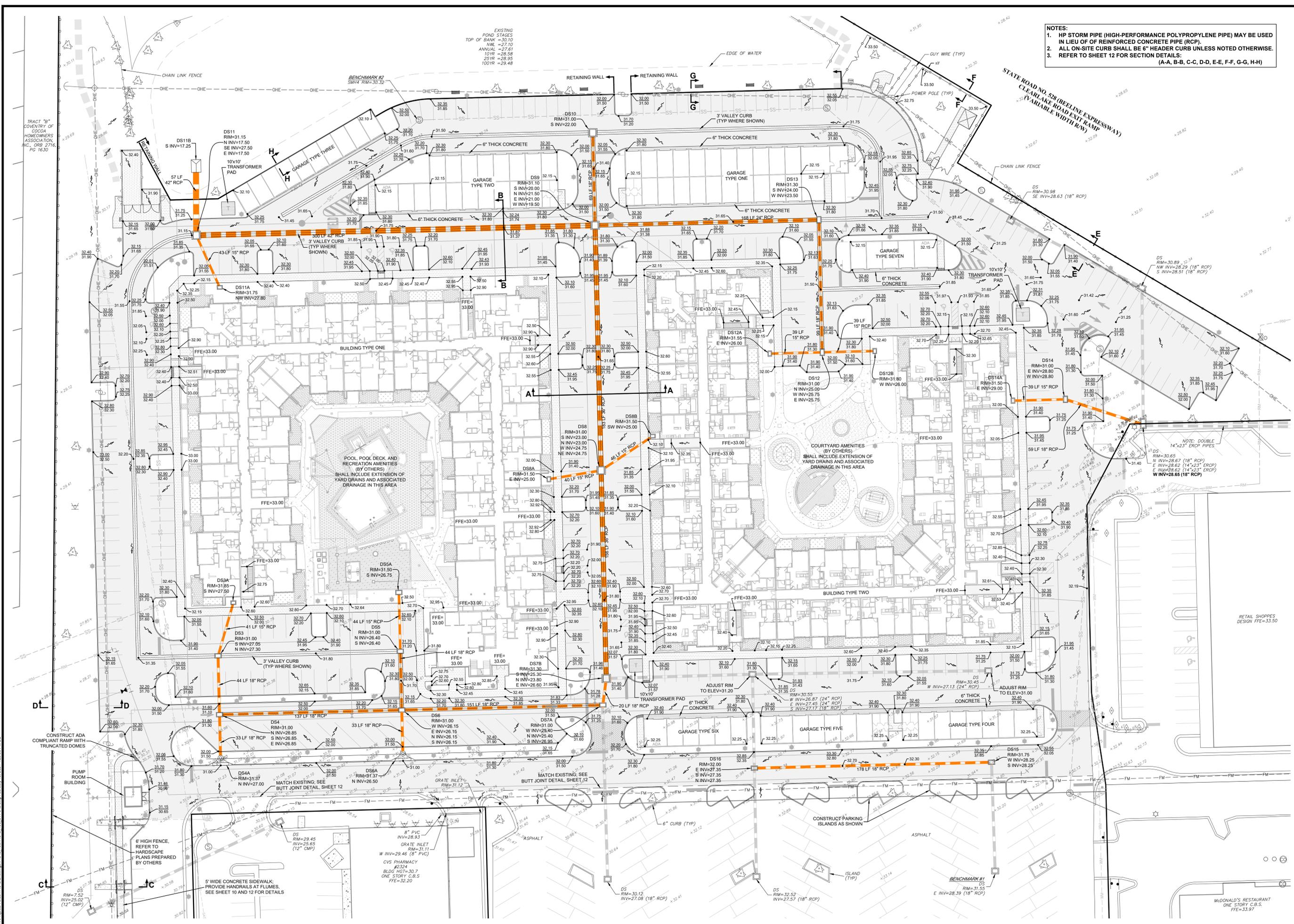
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- NOTES:**
- HP STORM PIPE (HIGH-PERFORMANCE POLYPROPYLENE PIPE) MAY BE USED IN LIEU OF REINFORCED CONCRETE PIPE (RCP).
 - ALL ON-SITE CURB SHALL BE 6" HEADER CURB UNLESS NOTED OTHERWISE.
 - REFER TO SHEET 12 FOR SECTION DETAILS: (A-A, B-B, C-C, D-D, E-E, F-F, G-G, H-H)

EXISTING
POND STAGES
TOP OF BANK = 30.10
10YR = 27.10
ANNUAL = 27.61
10YR = 28.58
25YR = 28.95
100YR = 29.48



▲	CITY COMMENTS	01/28/21
▲	CITY COMMENTS	10/30/20
▲	DATE:	08/31/20
▲	DESIGN/DRAWN:	ALS/DRB

PROJECT TITLE

CIRRUS

SHEET TITLE

PAVING, GRADING, AND DRAINAGE PLAN

PROJECT NO.

11545

DRAWING NO.

11545_400_011

SHEET

11 of 19

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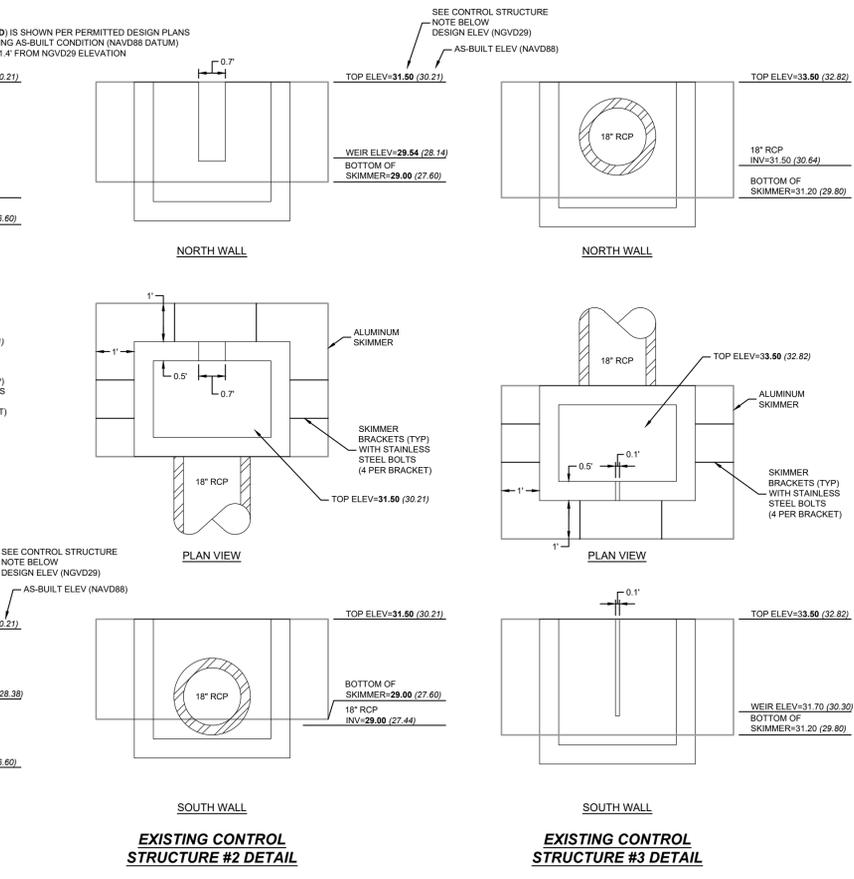
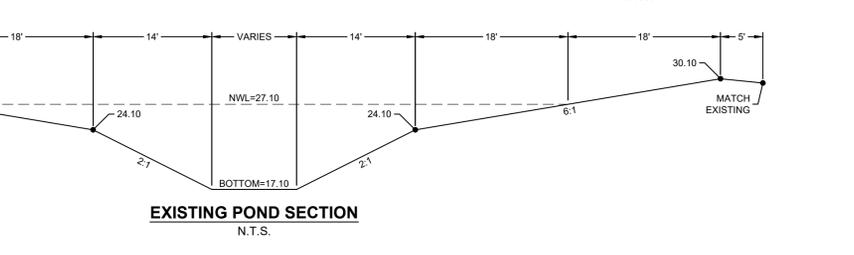
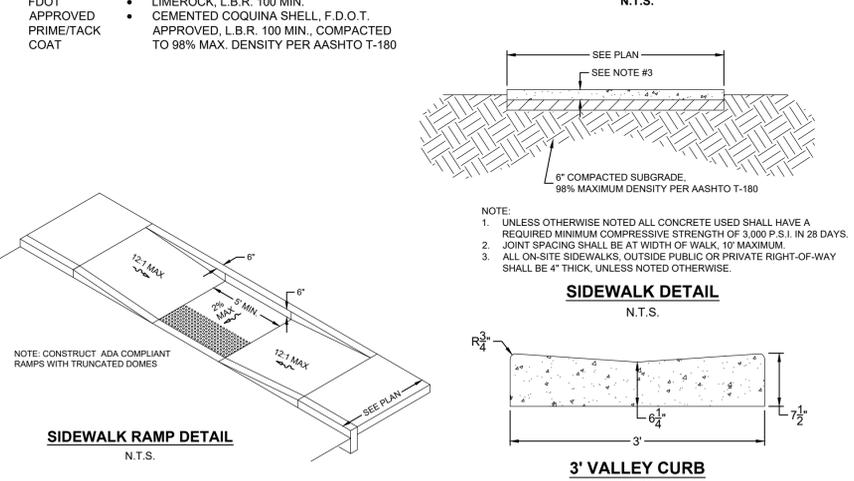
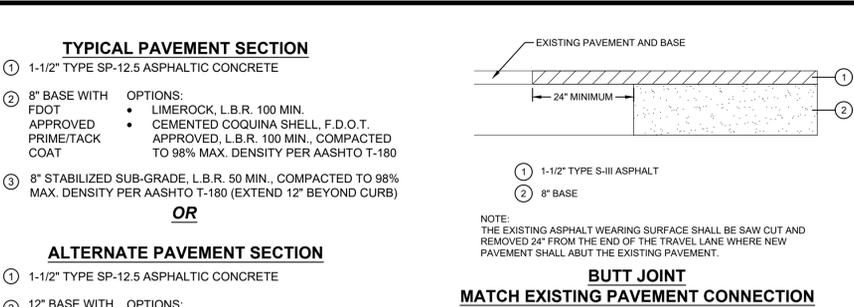
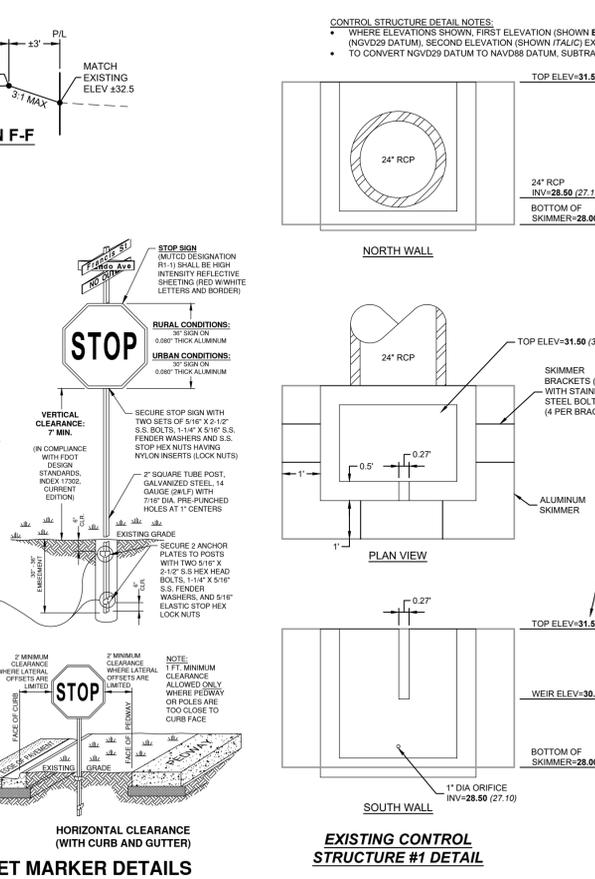
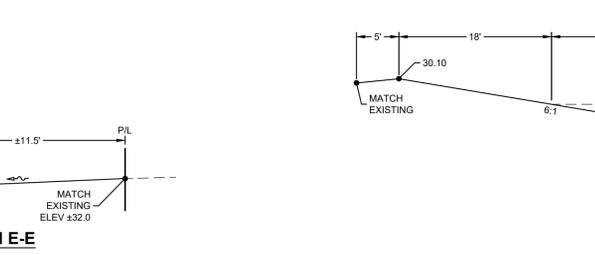
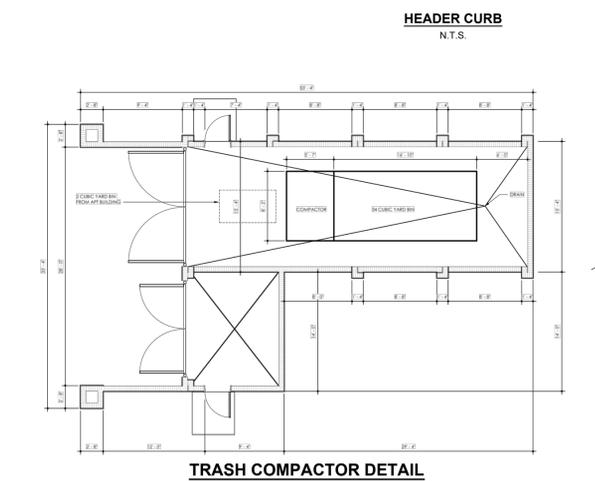
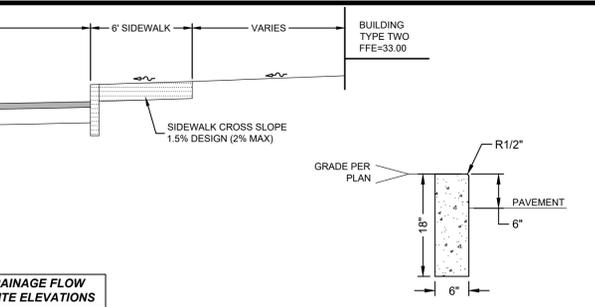
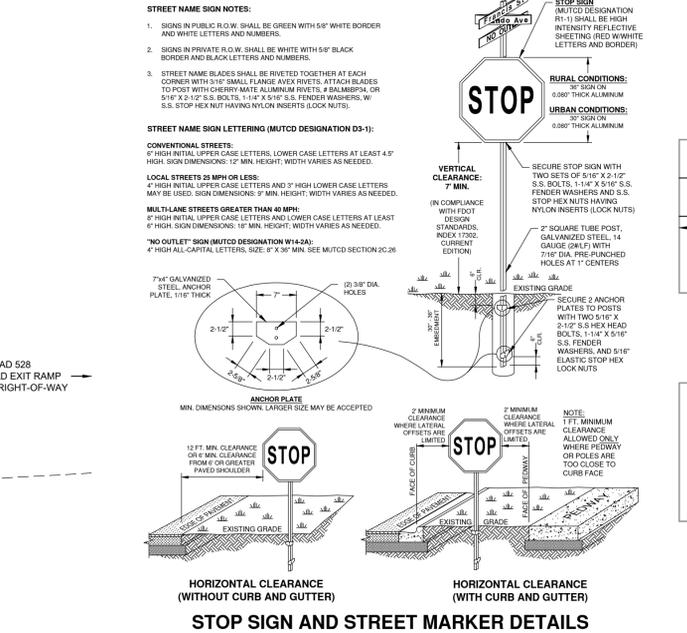
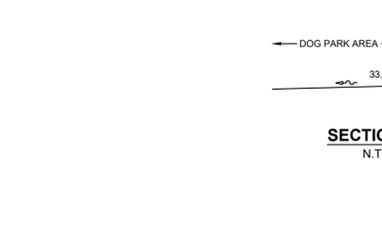
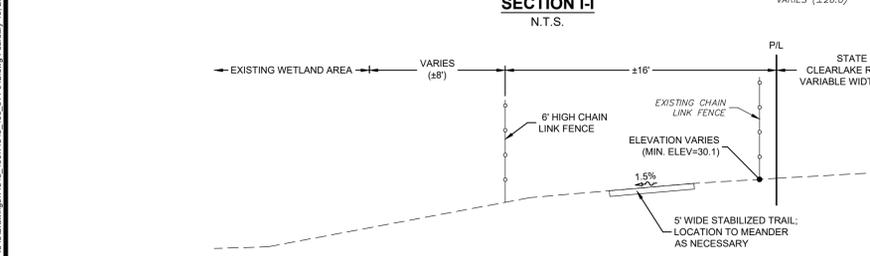
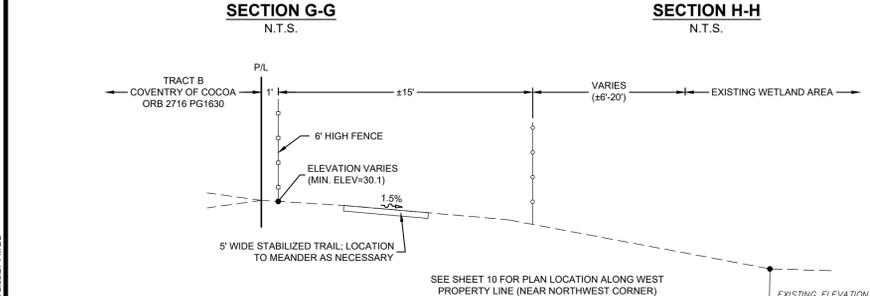
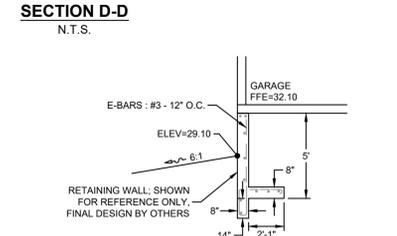
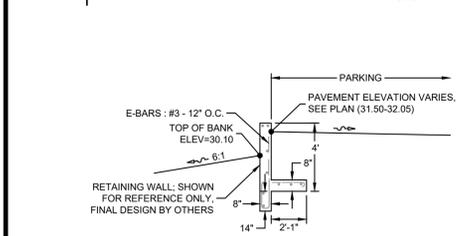
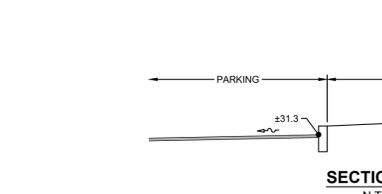
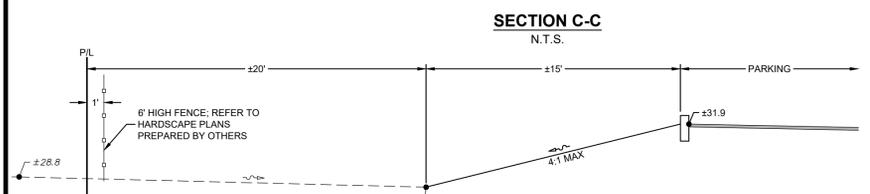
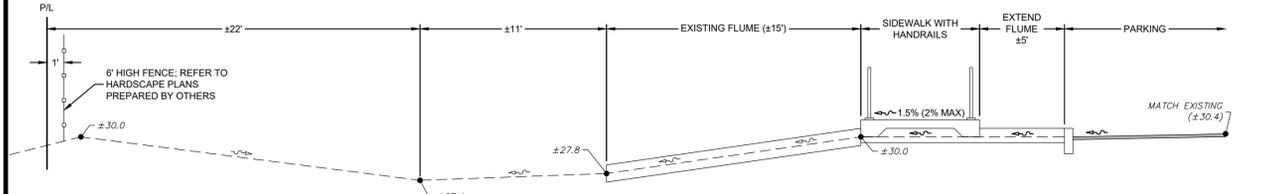
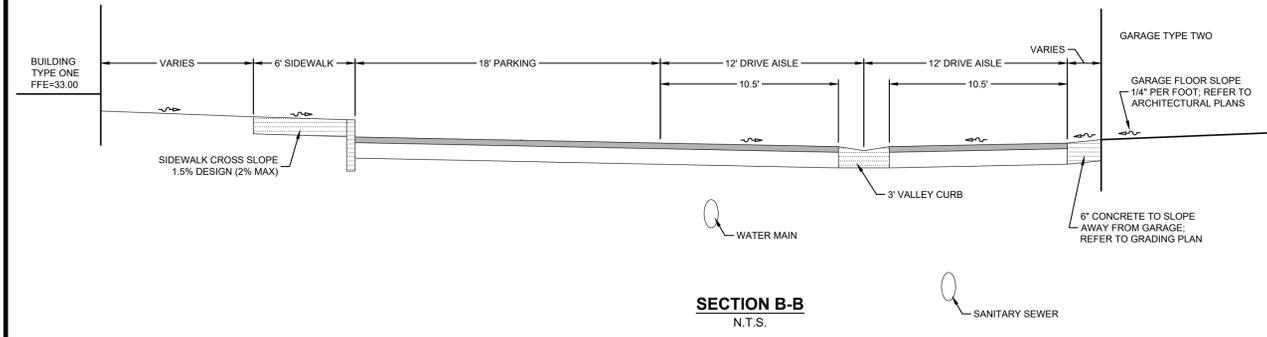
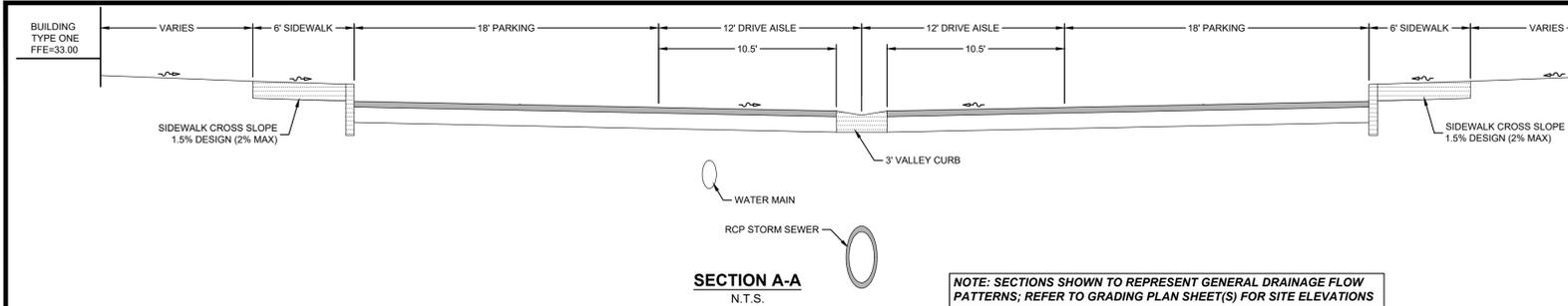


B.S.E. CONSULTANTS, INC.
CONSULTING - ENGINEERING - LAND SURVEYING

312 SOUTH HARBOR CITY BOULEVARD, SUITE 4
MELBOURNE, FLORIDA 32901
PHONE: (321) 726-3674 FAX: (321) 723-1159
CERTIFICATE OF PROFESSIONAL ENGINEERS
BUSINESS AUTHORIZATION: #605
CERTIFICATE OF LAND SURVEYING
BUSINESS AUTHORIZATION: LB0004905

SCOTT M. GLAUBITZ, P.E. & P.L.S.
STATE OF FLORIDA, No. 33659 No. 4151

HASSAN A. KAMAL, P.E.
STATE OF FLORIDA, No. 41951



VERTICAL DATUM: NAVD88	
CITY COMMENTS	01/28/21
CITY COMMENTS	10/30/20
DATE:	08/31/20
DESIGN/DRAWN:	ALS/DRB

PROJECT TITLE	
CIRRUS	
SHEET TITLE	
PAVING, GRADING AND DRAINAGE DETAILS	
PROJECT NO.	11545
DRAWING NO.	11545_400_012
SHEET	12 of 19



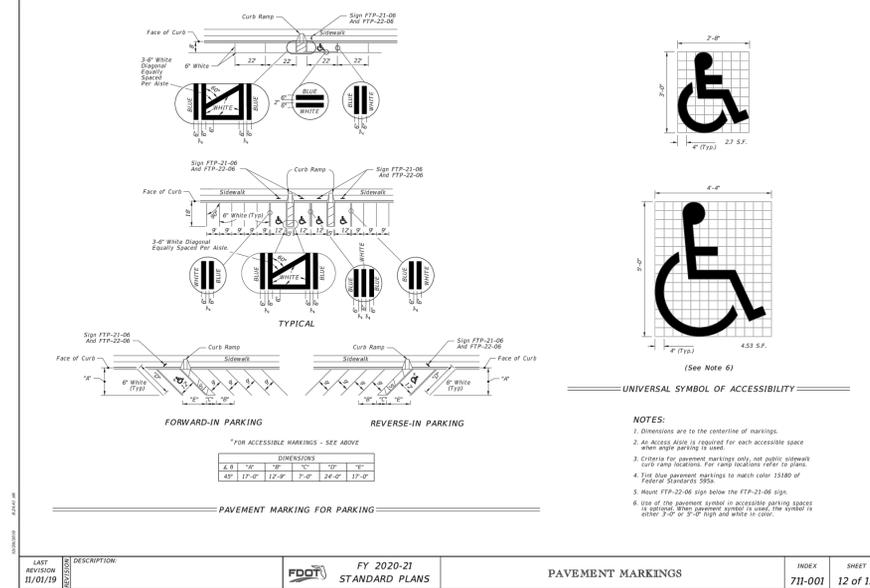
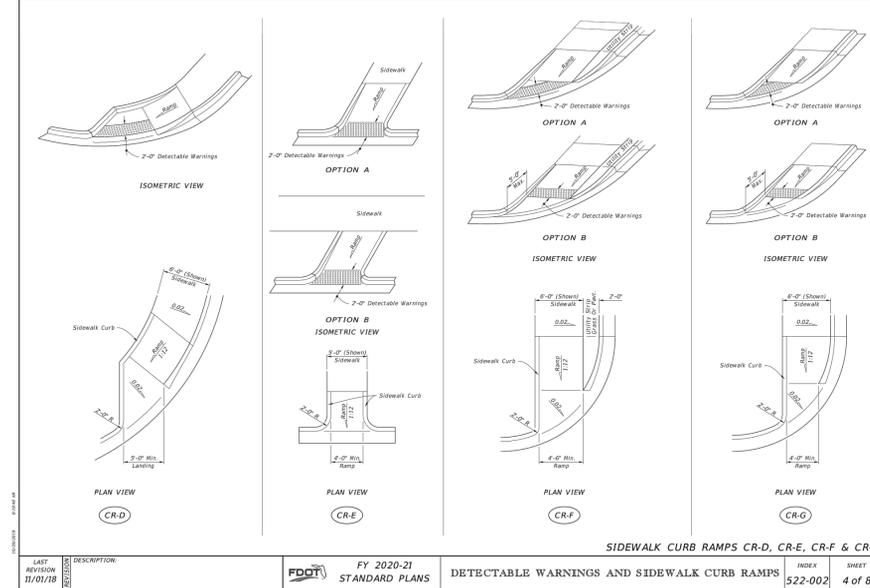
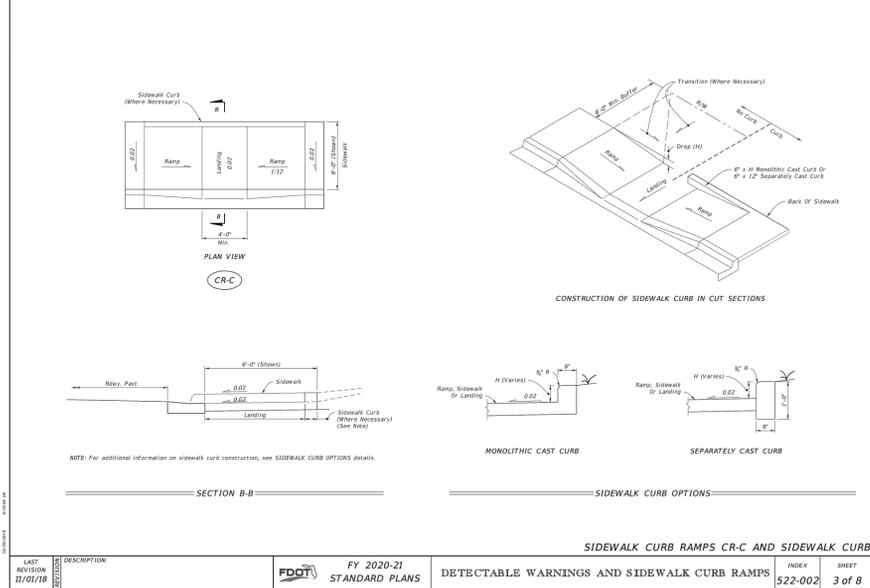
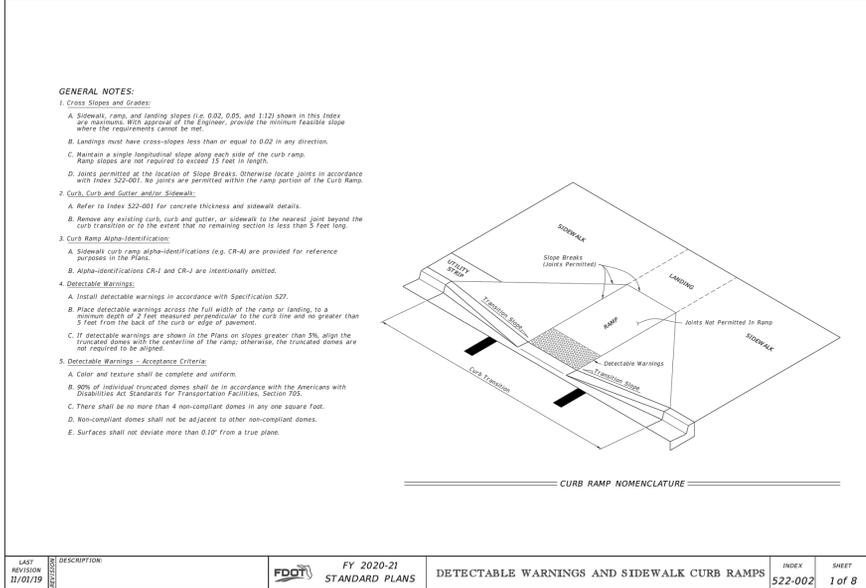
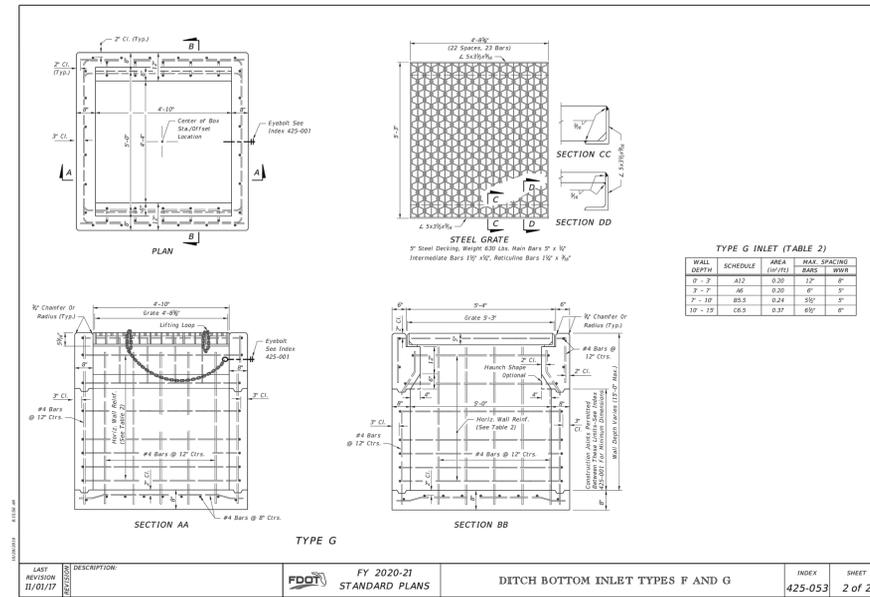
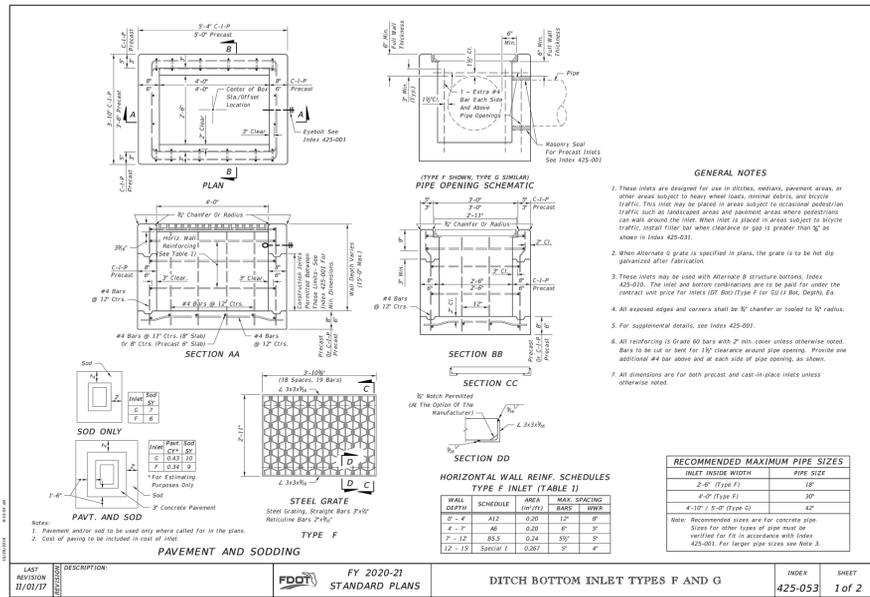
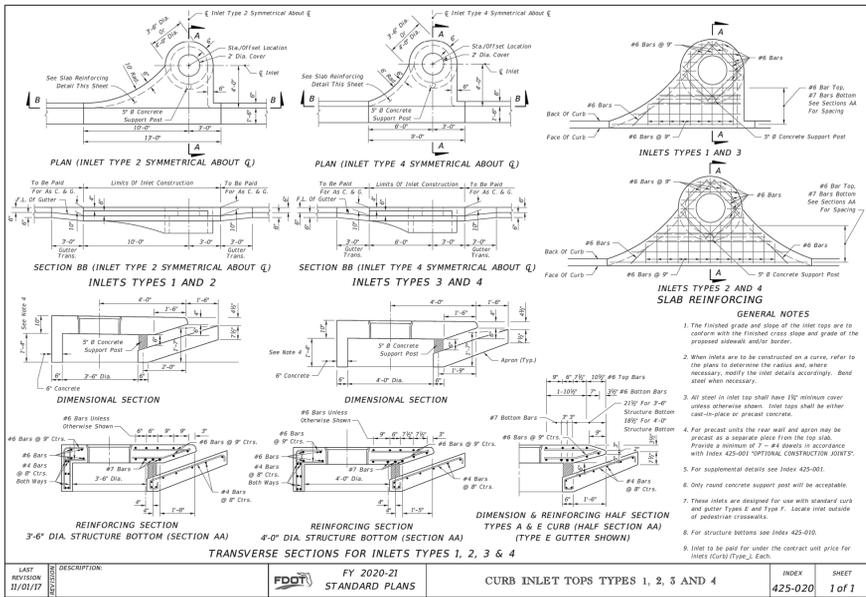
B.S.E. CONSULTANTS, INC. CONSULTING - ENGINEERING - LAND SURVEYING

312 SOUTH HARBOR CITY BOULEVARD, SUITE 4 MELBOURNE, FLORIDA 32901 PHONE: (321) 726-9674 FAX: (321) 723-1159

CERTIFICATE OF PROFESSIONAL ENGINEERS BUSINESS AUTHORIZATION: 4905 CERTIFICATE OF LAND SURVEYING BUSINESS AUTHORIZATION: LB0004905

SCOTT M. GLAUBITZ, P.E. & P.L.S. STATE OF FLORIDA, No. 38659 No. 4151

HASSAN A. KAMAL, P.E. STATE OF FLORIDA, No. 41951



VERTICAL DATUM: NAVD83

CITY COMMENTS: 10/30/20 DATE: 08/31/20 DESIGN/DRAWN: ALS/DRB

PROJECT TITLE: CIRRUS

SHEET TITLE: FDOT DETAILS

PROJECT NO.: 11545 DRAWING NO.: 11545_400_013 SHEET: 13 of 19

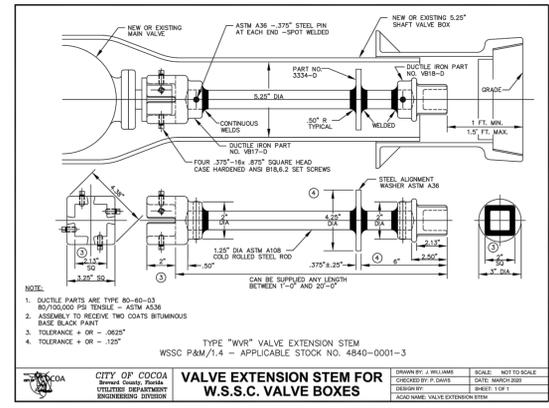
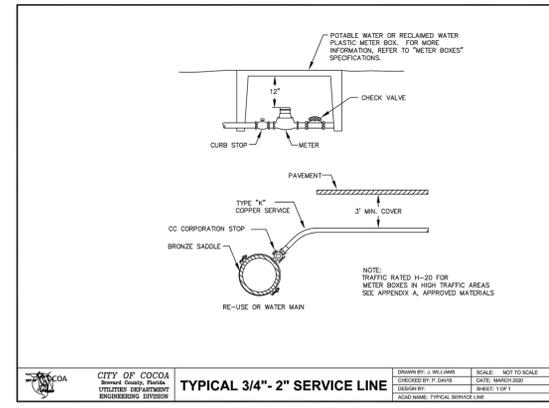
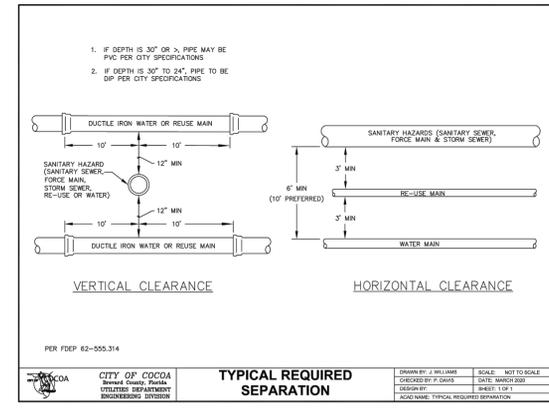
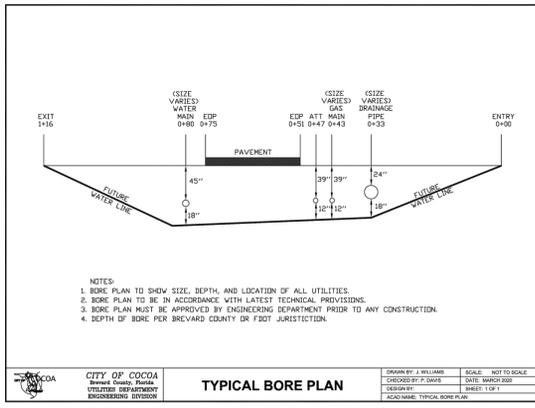
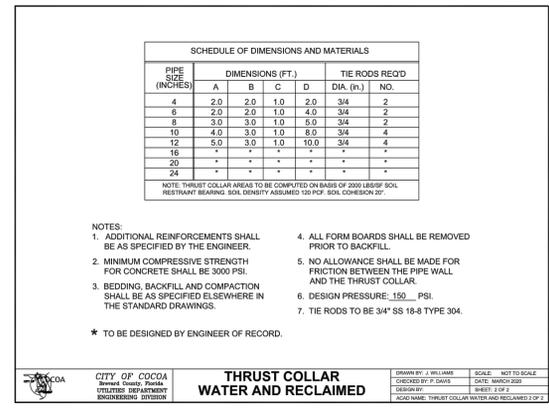
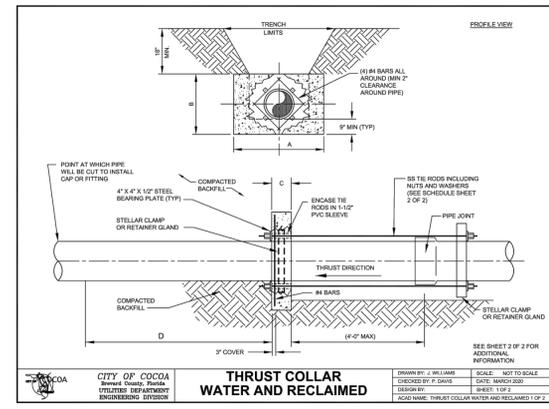
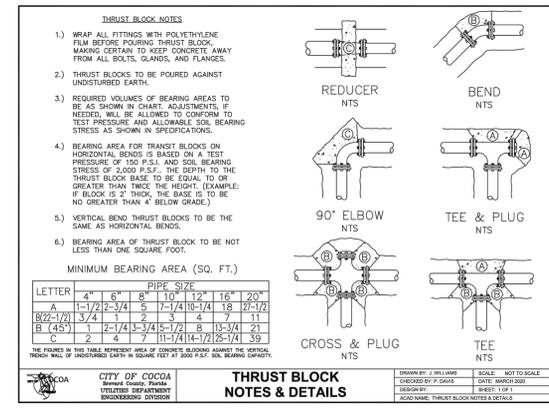
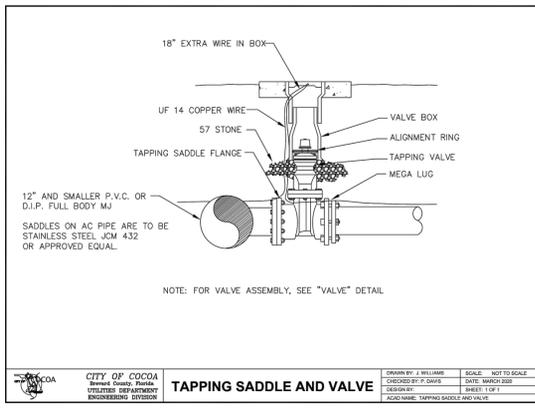
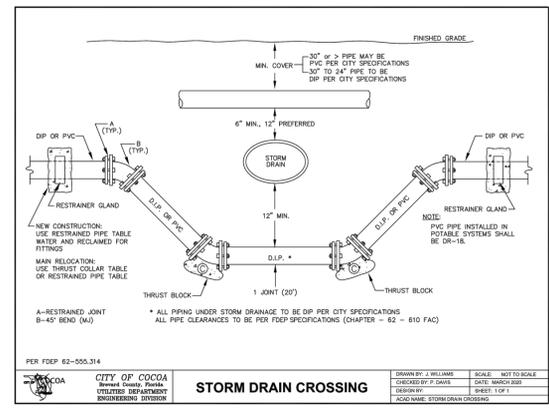
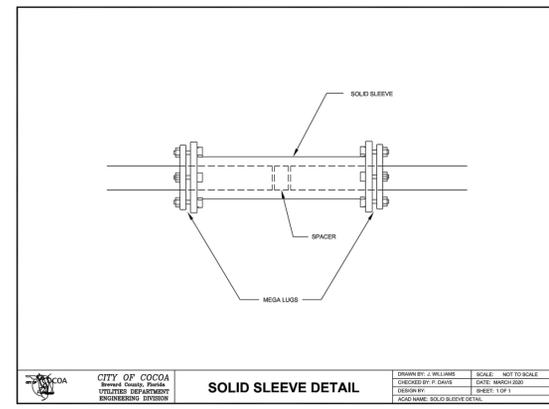
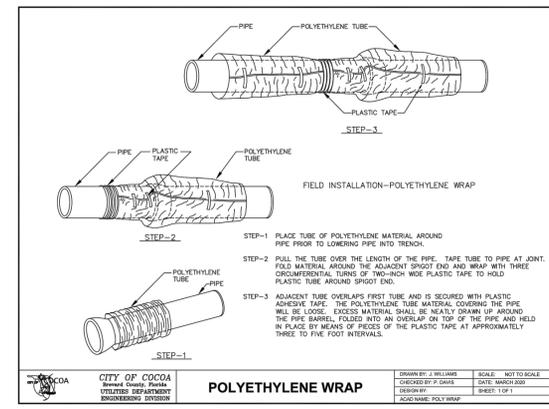
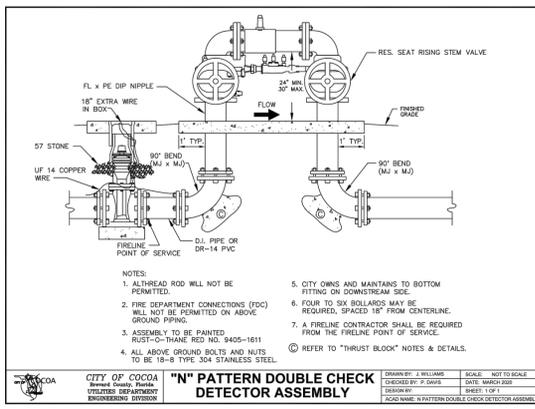
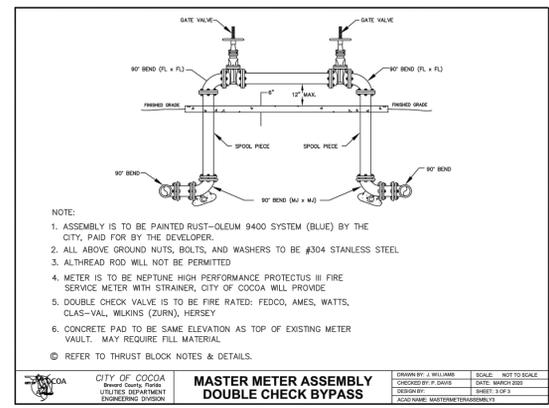
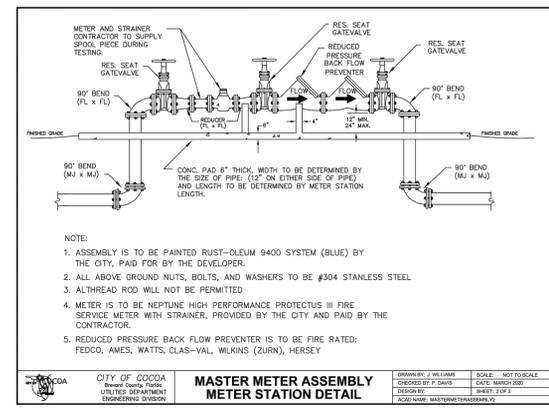
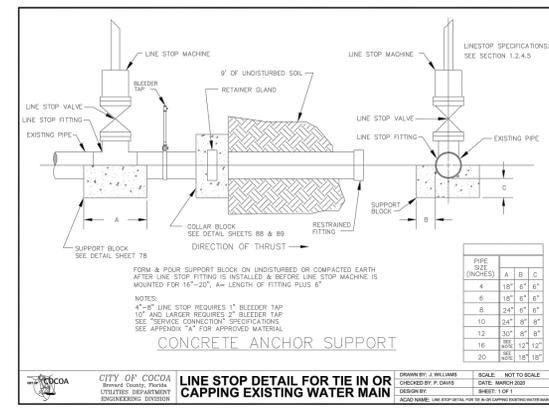
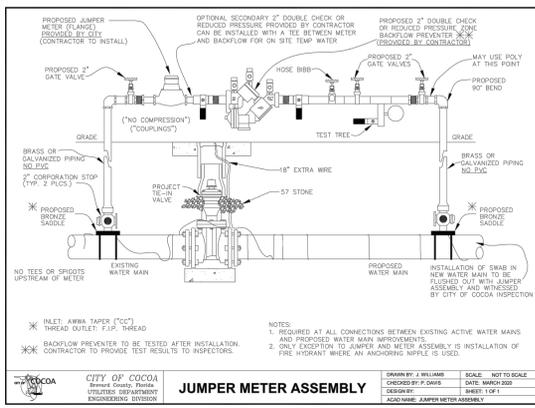


B.S.E. CONSULTANTS, INC.
CONSULTING - ENGINEERING -
LAND SURVEYING

312 SOUTH HARBOR CITY BOULEVARD, SUITE 4
MELBOURNE, FLORIDA 32901
PHONE: (321) 726-9074 FAX: (321) 723-1159
CERTIFICATE OF PROFESSIONAL ENGINEERS
BUSINESS AUTHORIZATION: 4005
CERTIFICATE OF LAND SURVEYING
BUSINESS AUTHORIZATION: LB0004905

SCOTT M. GLAUBITZ, P.E. & P.L.S.
STATE OF FLORIDA, No. 33659 No. 4151

HASSAN A. KAMAL, P.E.
STATE OF FLORIDA, No. 41951



VERTICAL DATUM: NAVD83

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CITY COMMENTS: 10/30/20
DATE: 08/31/20
DESIGN/DRAWN: ALS/DRB

PROJECT TITLE
CIRRUS

SHEET TITLE
CITY OF COCOA
DETAILS

PROJECT NO.
11545

DRAWING NO.
11545_400_015

SHEET
15 of 19

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3.1 MATERIAL SPECIFICATIONS

3.1.1 GENERAL

The Contractor will furnish all new materials of the size and kind shown on the drawings which will meet the following specifications or requirements. If the type of material is not specified on the drawings, the Contractor may use any of the types listed in this specification. The use of concrete for repairs on gravity sewer piping and lateral tie-ins is not permitted.

3.1.2 CONCRETE STRUCTURES

3.1.2.1 Precast Manholes

Precast manholes must be constructed in accordance with American Society of Testing and Manufacturing (ASTM) specification C478. Concrete will have a minimum 28-day compressive strength of 4,000 PSI. Cement will be Type II sulfate resistant. Steel will be minimum Grade 40 and placed as shown on the drawings. Shop drawings of manholes and lift station wet wells will be submitted to the Engineering Division for approval prior to casting. Chairs for supporting reinforcing steel will be non-corrosive plastic or Grade 316 stainless steel. Standard manholes will be 4 foot in diameter with a wall thickness of 5" for manholes of 6 feet in depth or less and wall thickness of 8" for manholes deeper than 6 feet.

Resilient connectors (boots) shall be used where PVC pipe penetrates manhole walls. Boots shall be NCR-Kor-N-Seal or approved equal, watertight and shall be manufactured of materials resistant to decay caused by the sanitary sewer environment or by ambient soil conditions. All hardware shall be stainless steel. Boots shall be installed in accordance with manufacturer's recommendations.

3.1.2.2 Flotation Uplift of Fiberglass Manhole

When a fiberglass manhole is specified, the EOR shall provide the design analysis showing where flotation uplift is counteractive.

3.1.3 PIPE

3.1.3.1 PVC Pipe and Fittings, DR 35

PVC pipe and fittings (DR 35) will be manufactured in accordance with ASTM specification C3034. DR 35 pipe is acceptable on gravity installations with a depth of 12.0 feet or less. Pipe will be of the elastomeric gasket joint type supplied in lengths of 12.5 feet. Solid wall ribbed PVC pipe with a stiffness of 60 psi or greater will be considered on a case-by-case basis at the discretion of the Engineering Division. Critical installations, as determined by the Engineering Division, will require use of poly-lined ductile iron pipe, coated with Protecto 401 ceramic epoxy.

3.1.3.2 PVC Pipe, DR 18

PVC pipe (DR-18) will be manufactured in accordance with AWWA specification C900. DR-18 pipe is required for pressure force main installation. Pipe will be of the elastomeric gasket joint type. Color-coded identification tape will be installed on all force mains.

3.1.3.3 Ductile Iron

Ductile iron pipe will be coated with Protecto 401 ceramic epoxy for force main, gravity, and valve pit installation. Exposed piping in valve pits will be pressure Class 350 with coal tar epoxy exterior coating. Buried ductile iron pipe will be wrapped in a color-coded polyethylene encasement in accordance with ANS/AWWA T1/C105.

3.1.4 MANHOLE ACCESS COVERS

3.1.4.1 Cast Iron

Cast iron manhole covers and rings must be traffic load bearing and have an O-Ring seal similar to **USF No. 225-AS ORS**. Bearing surfaces will be machined to produce a tight, even seating surface without rocking. Minimum clear opening will be 24". The words "CITY OF COCOA" and "SANITARY SEWER" will be cast into manhole covers. Manholes installed in high water areas will be sealed by a method approved by the Engineering Division.

3.1.4.2 Aluminum

Aluminum access covers will be designed for 300 PSF live load and will be equipped with stainless steel hinges, automatic lock mechanism in the open position, closed position lock hasp, and retractable grip for opening.

See Detail Sheets:

- Manhole Ring and Cover
- Check Valve Vault
- Lift Station

3.1.5 COATINGS

3.1.5.1 Water Based Acrylic

The interior and exterior surfaces of manholes shall be coated with a three-coat water based acrylic coating. The interior and exterior coats shall be factory applied to the coating manufacturer's recommendation with a minimum total DFT of 12 mils. Each of the coats will be 4 mils thick of contrasting colors. The interior shall be coated red, black, and a final gray coat. The exterior shall be coated red, gray, and a final black coat.

3.1.5.2 HDPE Sheet Lining

Where an HDPE liner is specified, the entire wall surface of the manhole will be protected with a high-density polyethylene liner cast into the concrete. This liner must be **AGRU Sure Grip** as manufactured by **Alois Gruher** or approved equal. All joints will be heat fusion welded to create a watertight lining. The liner shall be installed and tested per the manufacturer's guidelines. Such lining must be warranted against defects in materials and workmanship for a period of five years from date of installation.

3.1.5.3 Exposed Piping

Exposed piping, pumps, and equipment exposed to raw sewage in manholes, valve pits, and wet wells will be coated with a two-coat coal tar epoxy exterior coating system with a minimum DFT of 12-15 mils. Coal tar epoxy will be Rustoleum 9578 or approved equal. Equipment and pump information tags will not be painted. Pump discharge piping in lift station wet wells will be Grade 316 105 stainless steel, refer to Section 3.8.3.2, "Exposed Piping".

3.1.6 MISCELLANEOUS MATERIALS

3.1.6.1 Manhole Steps

Manhole steps are not permitted.

3.1.6.2 Hardware

All nuts, bolts, washers, anchors, and brackets inside the wet well or manhole must be manufactured from Grade 316 stainless steel. Bolts for fastening flanged fittings inside the valve pit may be steel, coated with the specified piping coating system. Never-seize/Anti-seize shall be applied to all SS bolts and nuts.

3.2 CONSTRUCTION

3.2.1 LOCATION AND GRADE OF SEWERS

The line and grade of the sewer, as well as the location of manholes, services, and all other appurtenances, will be as shown on the drawings. The grade line as given on the drawings indicates the grade of the invert of the sewer pipe.

Gravity sewer shall be designed and constructed with the following maximum and minimum slopes:

Minimum and Maximum Slopes for Gravity Sewers

Size (in) (Maximum) (%)(Minimum) (%)(1) 141.0460.660.6080.360.31100.280.250.120.220.20
The Engineer of Record shall certify that the slopes of the gravity sewer meet the above maximum and minimum slopes. Sewer lines with slopes not meeting the above maximum and minimum slopes will be rejected.

"As-built" drawings shall show the gravity line slopes.

Sewers shall be laid with uniform slope and straight alignment between manholes. Gravity sewer pipe shall be installed with the bell end upstream. The pipe shall be installed from downstream to upstream unless specific permission is obtained from the Engineering Division. Manholes shall

be designed with a minimum difference of 0.04 feet between the invert elevations of the incoming and outgoing sewers.

3.2.2 MATERIAL HANDLING

3.2.2.1 Precautions

All supplies shall be stored and maintained by the contractor per manufacturer's recommendations. Every precaution will be taken to prevent injury to pipe and piping materials during transportation and delivery to the work site. Under no condition will pipe be dropped, bumped, dragged, or picked up by inserting forks into the end of pipe. Pipe lifted by placing forks into pipe shall be removed from job site.

3.2.2.2 Damaged Materials

If in the process of transportation, unloading, or handling, any pipe or fitting is damaged, it will be rejected and removed from the site.

3.2.2.3 Storage

Pipe fittings and specials will be stored in a manner which will assure the protection of the material from damage and which will keep it clean. Sun damaged materials exposed to adverse conditions will be rejected.

3.2.3 TRENCH EXCAVATION, SHORING, AND SHEETING

3.2.3.1 Trenches

Sewer trenches will not be opened in advance of the placing of the sewer pipe for a distance greater than that required to install the sewer pipe. In no case will the open trench ahead of the sewer pipe exceed 25 feet. Backfill in the pipe zone will be accomplished immediately after joining the pipe to prevent movement.

3.2.3.2 Shoring, Sheeting, and Bracing of Excavations

The excavation must be sheeted and braced when necessary to prevent cave-in during excavation in unstable material or to protect adjacent structure, property, workers, and the public. The sheeting will be maintained in place until the pipe or structure has been placed and backfilled. Shoring and sheeting will be removed, as the backfilling is done, in a manner that will not damage the pipe or structure or permit voids in the backfill. All sheeting, shoring, and bracing of excavations will conform to the Trench Safety Act and requirements of the Federal, State, or local public agency having jurisdiction. The most stringent of these provisions will apply. The Contractor shall have a Competent Person (trench safety) on the job site at ALL times.

3.2.4 CONTROL OF WATER

3.2.4.1 Equipment

The contractor will furnish, install, and operate all necessary machinery, appliances, and equipment to keep the excavations reasonably free from water during construction. The Contractor will de-water and dispose of the water so as not to cause damage to public or private property or to cause a nuisance or a menace to the public. The Contractor will at all times have on hand sufficient pumping equipment and machinery in good working condition for all ordinary emergencies and will have available at all times competent human resources for the operation of the pumping equipment. The de-watering system will not be shut down between shifts, on holidays or on weekends, or during work stoppages.

All equipment shall conform to The City of Cocoa's noise ordinance Chapter 13.5, Article II, Section 13.5-21 through Section 13.5-26.

3.2.4.2 Ground Water

The control of ground water must be such that softening of the bottom of excavations or formation of "quick" conditions or "boils" will be prevented. De-watering systems will be designed and operated to prevent the removal of the natural soils. Discharge from pumps will be accommodated in accordance with the St. Johns River Water Management District's requirements. The Contractor is responsible for obtaining all de-watering permits such as NPDES permit.

3.2.4.3 Static Water

The static water level will be drawn down below the bottom of the excavation to maintain the undisturbed state of the natural soils and allow the placement of backfill to the required density. The de-watering system will be installed and operated so that the ground water level outside the excavation is not reduced to the extent that would damage or endanger adjacent structures or property.

3.2.5 PIPE PLACEMENT AND JOINTING

Pipe placement will progress upward with the spigot ends of the pipe pointing in the direction of flow. Each pipe will be placed true to line and grade with a laser beam system. All pipes will be joined in a professional manner and in accordance with the manufacturer's instructions.

Pipe ends will be carefully cleaned prior to jointing. Pipe will be placed either on a prepared bed of undisturbed earth in the bottom of the trench shaft as required to fit the pipe or upon a layer of properly placed bedding material.

3.2.6 MATERIAL FOR BEDDING AND BACKFILLING

3.2.6.1 Unsuitable Material

Wherever excavations of the trench expose unsuitable materials such as peat, soft clay, quicksand, rock, boulders, stones, or unstable material in the bottom of the trench which, in the opinion of the Engineer of Record or Inspector, is unsuitable foundation upon which to lay or support the pipe, backfill, and expected superimposed loads, such unsuitable materials will be removed to a depth necessary to reach material having adequate bearing capacity and at a width of trench at least equal to the minimum trench width as specified. The space created by removal of this unsuitable material will be backfilled using suitable backfill or bedding material as specified.

3.2.6.2 Suitable Material

Suitable material for bedding and backfilling will be dry, clean natural sand or gravel. The material will be placed in 6" layers and compacted, using mechanical compacting equipment, to a dry density equal to 98 percent (98%) of the maximum dry density as determined by the standard Proctor compaction test ASTM specification D698, each layer being compacted to the required density prior to placing the next layer. The Engineering Division shall require the density to be checked by a licensed laboratory at each manhole and at two points between manholes as selected by the Engineer of Record or Inspector, at no cost to the City.

3.2.7 MANHOLE INSTALLATION

3.2.7.1 Base Unit

The base unit for manholes and wet wells will be reinforced concrete with a monolithically poured base and bottom riser section. The base unit will be placed before the sewer pipe is

placed to or away from the manhole. The base unit will be placed in a dry hole on a bedding of 6" to 8" of "X" to 1" rock (57 stone or recycled concrete aggregate per FDOT specifications).

3.2.7.2 Manhole Channel

Invert channels will be constructed, smooth and semicircular in shape, conforming to the inside of the adjacent sewer section. Changes in direction of flow will be made in a smooth curve of as large a radius as possible. Changes in size and grade of channels will be made gradually and evenly. Invert channels will be formed by one of the following methods: formed directly into a poured concrete manhole base, built up with brick and mortar, half tile set in concrete, or half section of sewer pipe installed through the manhole with the top half cut out. The manhole floor inside of channels will be made smooth and will be sloped toward channels. Free drop connections inside manholes are not allowed. All drop connections will be constructed outside the manhole.

3.2.7.3 Joints

Precast manhole joints must be watertight and sealed with plastic pre-formed joint filler similar to **Ram-Nek**. All joint areas will be factory primed. Manhole-to-pipe connections will be by factory-supplied flexible boots.

3.2.7.4 Non-Shrink Grout

The annular space between the sewer pipe and the opening in the manhole will be grouted with non-shrink grout to ensure a watertight joint.

3.2.7.5 Coating

The interior and exterior surfaces of manholes shall be coated in accordance with Section 3.1.5, "Coatings".

3.3 WATER MAIN CROSSINGS

3.3.1 GENERAL

In all cases where sanitary gravity or force mains cross water mains the crossing shall meet the vertical and horizontal separation requirements of FAC Rule 62-555-3.14. When separation requirements cannot be met, the Engineer of Record must propose an alternative solution that

meets the requirements of FAC 62-555.314 for approval by the Engineering Division. The water main should cross above the sanitary main, when the water main must cross below the sanitary main, the minimum separation shall be 12 inches.

3.4 SERVICE CONNECTIONS

3.4.1 GENERAL

The contractor must install commercially manufactured wye branches compatible with the material used in the sewer main. Where the service line piping is of a different material than the sewer main, the fittings and transition pieces will be specially designed for the connection of the different materials and must be approved by the Engineering Division.

3.4.1.1 Connecting to Manholes

Service connections made directly to a manhole shall be core drilled and fitted with a flexible coupling to provide a seal around pipe. Pipe will be a minimum of 6" in diameter and shall include a yoke and clean-out in a green meter box located on the Customer side of the right-of-way or easement (see "Typical Lot Service Line Location" detail). Connections requiring a drop will be piped to the bottom of the manhole on the outside (see "Manhole with Outside Drop" detail).

Force mains coming from private lift stations into a gravity manhole requiring a drop will be piped to the bottom on the outside of the manhole and fitted with 45-degree bends directed toward the invert of the gravity main (see detail "Force Main Connection to Manhole").

3.5 FIELD TESTING OF SEWER SYSTEMS

3.5.1 GENERAL

All sewer lines will be subject to a leakage test at the discretion of the Engineering Division. The test shall be either an infiltration, exfiltration, or air pressure test as determined by the Engineering Division. The test will be conducted by and at the expense of the Contractor in the presence of the Inspector.

Maximum allowable leakage is 100 gallons per day, per inch diameter of pipe, per mile of pipe. If the amount of material leakage is exceeded, the Contractor will make the necessary repairs and schedule a re-test. Acceptable methods of repairing leaks are by excavation.

3.5.1.1 Visible Leaks

All visible leaks in structures will be eliminated regardless of the amount of flow.

3.5.1.2 Televised Inspection

Television inspection must be provided by the contractor and will be performed after final completion of the job site or roadway. A Digital Video Disc (DVD) record of the inspection with an audible description of the run, including its direction and location, the location and description of any service laterals, and a description of any defect or abnormality must be included.

3.5.1.3 Pressure Testing

Force mains will be hydrostatically tested at a pressure of 100 psi for one hour. The contractor will install air reliefs as necessary for relieving air prior to testing. The maximum allowable leakage of water per thousand feet of pipe is as indicated in the following table:

Maximum Allowable Leakage per 1,000 Feet of Pipe

Size (in)(Allowable Leakage (gal/hour)) 10.2760.4180.54100.68120.81161.08201.35

3.5.1.4 Vacuum Testing of Manholes

All sewer manholes shall be required to meet the requirements of the vacuum test as per the current ASTM C 1244 "Standard Test Method for Concrete Sewer Manholes by the negative Air Pressure (Vacuum) Test" prior to acceptance. Manholes and connected piping must be backfilled to finished grade prior to testing.

A vacuum of 10 inches of mercury shall be drawn and the vacuum pump shut off. With the valves closed, the time for the vacuum to drop to 9 inches of mercury shall not be less than that shown in the following table:

Vacuum Testing for Given Manhole Size

Manhole Depth (ft) Time Elapsed" (Sec) 48 in6 in12 in20 in
In0-820263310253441120039491435465718405267184559732050658122527288245978971664851052869911307498121 Times shown are minimum elapsed times, in seconds, for a drop in vacuum of 1 inch of mercury.

3.6 RECORD DRAWINGS

3.6.1 GENERAL

Record drawings are required for all systems to be accepted by the Engineering Division. Record drawings will be prepared by a surveyor or an engineer registered in the State of Florida and will contain the following information:

- Location of all gate valves, valve pits, force main check valves, fittings, air release valves, tapping saddles, manholes, lift stations, wet wells, and cleanouts using at least two ties to permanent points (manholes, curbs, or storm water inlets). An acceptable station and offset system shall be used for lateral lines.
- The as-builts must include the location of the wye branch, the end of the sewer service referenced to the next downstream manhole of each run, the offset of the end of the location referenced from the centerline of the main sewage pipe, and the depth at the end of the service.
- Location of sewer mains from property easement lines or edge of pavement at intervals of 300 feet.
- Separation between reclaimed water or force mains and water mains if they are installed within 10 feet of water mains.
- Sewer main material, diameter, length of run, and distance of mains from buildings or structures within 20 feet of the sewer main.
- Elevations of the top (rim) and pipe inverts at each manhole and the length and slope of each run of pipe are required on the as-builts (all elevations must be tied to NAVD8).
- Pertinent easement information.
- A minimum of two (2) northings and eastings geographic coordinates.
- Certification by the surveyor or Engineer of Record accepting responsibility for accuracy of information supplied on the record drawings and a statement certifying that all mains are within easements and/or public right-of-way. The name "City of Cocoa" must appear on all record drawings survey information.

Record drawings will be drawn at an engineering scale that is legible and readable as determined by city staff. Areas requiring additional detail may be enlarged as necessary. Right-of-way, easements, and lot lines must be accurately shown. After the surveyor or engineer has certified the locations, the engineer will certify an DTP Form 62-604.3000(B) that the system depicted on the record drawing was constructed in substantial conformance with approved plans and will function as intended. Lot, block numbers, and street names will be included. Provide two (2) sets of signed and sealed record drawings and one (1) digital file including all reference files in .DWG format (AutoCAD 2013 or higher).

3.7 FORCE MAIN VALVES

3.7.1 GENERAL

Valves for use in force mains must be epoxy coated resilient seat gate valves. The resilient seating surface will be bonded to the gate and will seal under compression without wedging or spicing.

Requirements stated in **Portable & Reclaimed Water Section 2.2.2, "Valves, Valve Boxes, and Valve Extensions"** and **Section 2.5.8, "Valves and Fittings"** shall also be met for force main valves.

Air release valves will be of the **Combination Air Release and Vacuum (CARV)** type. CARV valves shall have a working pressure range of 3-150psi, testing pressure of 250psi, maximum operating temperature of 140°F, 2" threaded inlet and 1.5" outlet, reinforced nylon body, 316 SS internal parts. See "Appendix A," Approved Materials.

CARV valves will be installed in a concrete pit at high points in the main. See Detail "Air Release Valve".

3.8 FORCE MAIN PIPE

3.8.1 RESTRAINED PIPE JOINTS

The Engineer of Record shall provide a restrained joint detail on drawings submitted to the City for approval. Restraint is to apply to all new fittings installed as part of the job, including tapping saddles.

3.9 LIFT STATIONS

3.9.1 PRECAST WET WELLS

Precast wet wells must be constructed in accordance with ASTM specification C478. Concrete will have a minimum 28-day compressive strength of 4,000 PSI. Cement will be Type II sulfate resistant. Reinforcement steel will be minimum Grade 40 and placed as shown on the drawings ("Lift Station" Sheets 1 and 2 of 4). Shop drawings of manholes and lift station wet wells will be submitted to the Engineering Division Supervisor for approval prior to casting. Chairs for supporting reinforcing steel will be non-corrosive plastic or Grade 316 stainless steel. Linings for wet wells shall conform to Section 3.9.3, "Coatings". EOR shall approve precast wet well design.

3.9.2 WET WELL ACCESS COVERS

Aluminum access covers will be designed for 300 PSF live load with a safety factor of three (3). There shall be two 24" x 48" swing covers equipped with Grade 316 stainless steel hinges and Grade 316 stainless steel tamper-proof fasteners, closed position lock hasp, and retractable grip for opening. The cover will open to 90 degrees and lock automatically in the open position with a stainless steel positive locking arm. The release will be made by a stainless steel release handle. The cover will be flush with the top of the frame and rest on a 1/4-inch wide lip around the inside of the frame. The hatch will be a **Billco** or **Halliday** product. Hatch size of the cover will be determined by the wet well size and pump size to provide at least 12" of clearance on all sides of the pump with a minimum hatch dimension of 48" x 48". The wet well access cover needs to be flush with the top of the concrete.

3.9.3 COATINGS

3.9.3.1 HDPE Sheet Lining

The entire interior wall and top surface of the wet well will be protected with an HDPE liner designed to protect concrete from corrosion in a collection system pump wet well. The liner shall be a minimum thickness of 0.075 inches. Anchoring studs shall be the same material, and shall be integrally extruded with the sheet and shall have a minimum height of 0.39 inches and a length of 0.55 inches. The HDPE sheeting will be cast into the concrete. This liner will be **AGRU Sure Grip** as manufactured by **AGRU America**, Inc. or approved equal. Flat liner used for overlapping joints shall have a minimum thickness of 0.018 inches. All joints will be heat fusion welded to create a watertight lining. Such lining shall be warranted against defects in materials and workmanship for a period of five years from date of installation.

3.9.3.2 Exposed Piping

Pump discharge riser pipes and fittings inside the wet well will be Grade 316 105 stainless steel with flanged fittings. Piping exposed to raw sewage in valve pits will be coated with a two-coat coal tar epoxy exterior coating system with a minimum DFT of 12-15 mils. Coal tar epoxy will be **Rustoleum 9578** or approved equal. Equipment and pump information tags will not be painted.

3.9.4 SUBMERSIBLE PUMPS

Lift station submersible pumps will be **Hydromatic, ABS**, or **Flygt** with three-phase power and 3" minimum solids handling capacity. Pump volute, seal housing, and motor housing will be cast iron. Pump impeller will be two vane, one-piece cast iron construction. Pump shaft will be one-

piece 316 stainless steel, equipped with tandem seals with separate chambers for each seal. Seals will have tungsten carbide faces with 316 stainless steel hardware. Seal chambers will be equipped with probes to detect water intrusion. Motors will be oil-filled with automatic reset over-temperature sensors embedded in the motor windings. Pumps will be equipped with a stainless steel slide rail system, dual rail type. The pump discharge coupling will be flanged cement-lined ductile iron, 4" minimum diameter, bolted to the wet well floor by 316 stainless steel fasteners. Flanges will be machine threaded. (Compression-type flanges will not be allowed) Flange bolts, washers, and nuts will be 316 stainless steel. All pipes entering or exiting the wet well shall be sealed in a manner that will prevent water leaks around pipes.

3.9.5 VALVE PIT

A separate valve pit shall be constructed adjacent to the wet well to house a check valve for each pump, a gate valve for each pump, and one gate valve for emergency pump-out. The valve pit shall be configured to allow a minimum of 8 inches between the bottom of pipe flanges and the floor or wall. The emergency pump outlet will include a brass 4" male quick-disconnect complete with brass cover. The cross will be tapped to accommodate a brass gate valve with a threaded on 0-100 PSI glycerin filled pressure gauge. The valve pit is to be made of precast or cast-in-place concrete with a cast concrete cover equipped with an aluminum access hatch cast in the concrete. Aluminum access covers will be designed for 300 PSF live load with a safety factor of three (3). There shall be two 24" x 48" swing covers equipped with Grade 316 stainless steel hinges and Grade 316 stainless steel tamper-proof fasteners, closed position lock hasp, and retractable grip for opening. The cover will open to 90 degrees and lock automatically in the open position with a stainless steel positive locking arm. The release will be made by a stainless steel release handle. The cover will be flush with the top of the frame and rest on a 1/4-inch wide lip around the inside of the frame. The dual swing access hatch will be a **Billco** or **Halliday** product. Hatch size will be determined by the installation with a minimum dimension of 48 x 48 inches. The valve pit access cover needs to be flush with the top of the concrete. The valve pit depth is a maximum of 36" deep.

3.9.6 CHECK VALVES

Check valves will be flanged, with fusion bonded epoxy coating with an outside weight and lever, cast iron housing, 316 stainless steel seat ring, clapper with neoprene seating surface, O-ring sealed stuffing box (minimum size 4"). Bolts, washers, and nuts will be Grade 316 stainless steel. Check valves shall meet AWWA specification C508. Flanged end dimensions will be drilled to ANSI standard B16.1 class 125.

3.9.7 GATE VALVES

Gate valves will be resilient seated, 4" minimum diameter, with flanged ends, hand wheel operated, non-rising stem, epoxy coated, flanged end dimensions will be drilled to ANSI standard B16.1 class 125.

3.9.8 CONTROL PANEL

The control panel will be isolated with a 200-amp fusible breaker disconnect housed in a NEMA 4X, stainless steel lockable cabinet.

The control panel enclosure will be Grade 316 stainless steel, NEMA 4X rated with a heat-reflecting hood. The minimum inside dimensions will be 36" wide x 48" high x 12" deep. Control voltage will be 120 VAC. **Control voltage transformer will be sized to support a 20 Amp circuit.** Control wiring will be 14 AWG stranded. The enclosure will be equipped with an aluminum dead front inner panel with cutouts for all circuit breakers; elapsed time meter (non-reset, hour and tenth hour, five digits); one duplex 120 VAC convenience outlet (GFI protected); a top mounted LED work light minimum 24 inches in length; hand-off-automatic (HOA) switch for each pump; seal failure light for each pump (amber); run light for each pump (red); one trip light for each pump (amber); SCADA bypass switch, inside and outside light on-off switch.

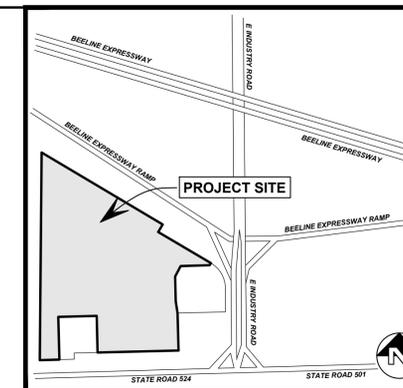
Floats will be used to provide level control. There will be one float for pump shut-off, one for lead pump turn-on, one for lag pump turn-on, and one for high-level alarm. Floats will be Roto-Float type-5 as manufactured by Anchor Scientific with all weights and switches encapsulated. Floats will operate on normal 24 VAC supplied from a step-down 120 VAC to 24 VAC transformer located in the control panel. Float wiring from control panel to pump J-box will be a minimum of #14 AWG copper wire. City will provide signal cable that will run from the control panel to the pump J-box in the same conduit as the float wiring.

Motor starters will be NEMA-rated with three-leg protection, circuit breakers (molded case), and all pilot devices (switches, relays, lights) will be manufactured by **Square-D**.

The control panel will be equipped with a **Russel Stoll model JRS 1044FR 100-amp emergency generator receptacle** and emergency main circuit breaker with lockout from the normal main breaker. Panel will be equipped with ground and neutral terminal bars. A power distribution block will be installed after the main breaker. Two 10 feet by 3/4 inch copper-clad ground rod will be driven into the ground adjacent to the control panel and must test less than 25

CIRRUS

BEING A RE-PLAT OF LOT 1, HOME DEPOT COCOA ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 57, PAGE 87, PUBLIC RECORDS BREVARD COUNTY FLORIDA, LYING IN SECTION 18, TOWNSHIP 24 SOUTH, RANGE 36 EAST, CITY OF COCOA, BREVARD COUNTY, FLORIDA
PRELIMINARY PLAT



PLAT BOOK _____, PAGE _____
SHEET 1 OF 4
SECTION 18, TOWNSHIP 24 SOUTH, RANGE 36 EAST

DEDICATION
KNOW ALL MEN BY THESE PRESENTS, COCOA RETAIL, LLC, a North Carolina Limited Liability Company, being the owner in fee simple of the lands described in
CIRRUS
Hereby dedicates said lands and plat for the uses and purposes therein expressed and dedicates all public drainage and utility easements as further described in the notes or as shown hereon. The owner hereby dedicates to the public and the City of Cocoa, Florida, all easements shown hereon as public easements and a perpetual public easement over and across Lot 1A and Lot 1B for ingress and egress for law enforcement and emergency vehicles, emergency access and emergency maintenance.

By: _____
Printed Name: _____

SEAL

Attest: _____
Printed Name: _____

Attest: _____
Printed Name: _____

COCOA RETAIL, LLC
1111 METROPOLITAN AVENUE
SUITE 700
CHARLOTTE, NORTH CAROLINA 28236

STATE OF _____ COUNTY OF _____

The foregoing instrument was acknowledged before me by means of _____ physical presence _____ or online notarization, this _____ by the above named Limited Liability Company under the laws of the State of _____ on behalf of the company, who is personally known to me _____ or has produced _____ as identification.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the above date.

NOTARY PUBLIC _____ SEAL
My Comm. Expires _____

CERTIFICATE OF SURVEYOR

KNOW ALL MEN BY THESE PRESENTS, That the undersigned, being a licensed professional surveyor and mapper, does hereby certify that on 11/11/2019 he completed a boundary survey of the lands shown on the foregoing plat; and that said plat was prepared under his direction and supervision and that said plat complies with all of the survey requirements of Chapter 177, part 1, Florida Statutes, and that said lands are located in the City of Cocoa, Brevard County, Florida.

Registration Number 5611
LESLIE E. HOWARD
B.S.E. Consultants, Inc.
312 South Harbor City Boulevard, Suite #4
Melbourne, Fla. 32901
Certificate of Authorization Number: LB-0004905

CERTIFICATE OF REVIEWING SURVEYOR

I HEREBY CERTIFY, That I have reviewed the foregoing plat and find that it is in conformity with Chapter 177, part 1, Florida Statutes.

J. Barry, Cabannis
Reg. Florida Surveyor & Mapper #4524
Reviewing Surveyor for the City of Cocoa

CERTIFICATE OF APPROVAL OF MUNICIPALITY

THIS IS TO CERTIFY, That on _____, the foregoing plat was approved by the City Council of the City of Cocoa, Florida.

Michael C. Blake, MAYOR
ATTEST: _____
Carie Shealy, CITY CLERK

CERTIFICATE OF CLERK

I HEREBY CERTIFY, That I have examined the foregoing plat and find that it complies in form with all the requirements of Chapter 177, Part 1, Florida Statutes, and was filed for record on _____ at _____.

File No. _____
ATTEST: _____
Clerk of the Circuit Court in and for Brevard County, Fla.

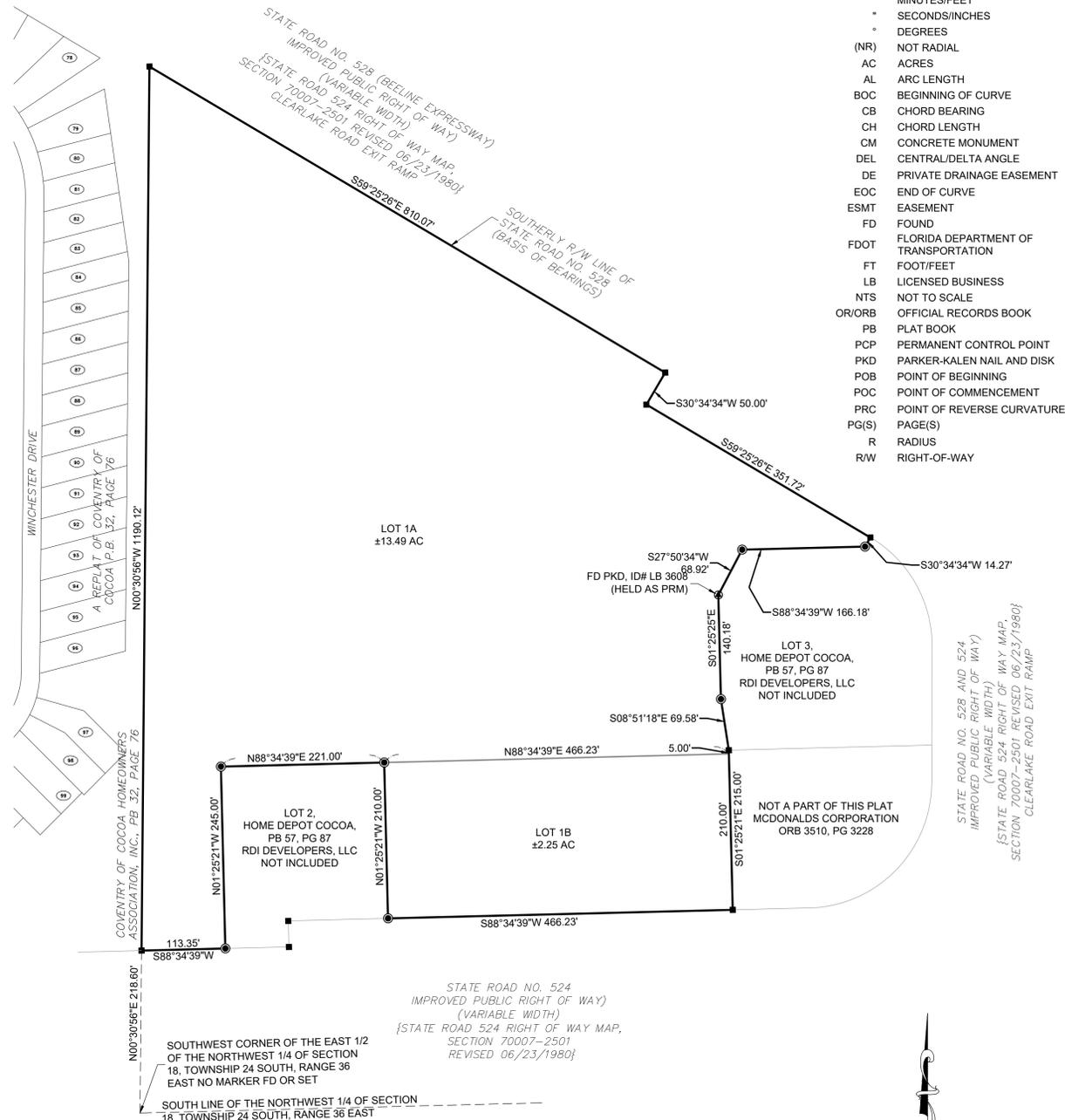
- ABBREVIATIONS**
- * MINUTES/FEET
 - * SECONDS/INCHES
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 - (NR) NOT RADIAL
 - AC ACRES
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 - BOC BEGINNING OF CURVE
 - CB CHORD BEARING
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 - CM CONCRETE MONUMENT
 - DEL CENTRAL/Delta ANGLE
 - DE PRIVATE DRAINAGE EASEMENT
 - EOC END OF CURVE
 - ESMT EASEMENT
 - FD FOUND
 - FDOT FLORIDA DEPARTMENT OF TRANSPORTATION
 - FT FOOT/FEET
 - LB LICENSED BUSINESS
 - NTS NOT TO SCALE
 - OR/ORB OFFICIAL RECORDS BOOK
 - PB PLAT BOOK
 - PCP PERMANENT CONTROL POINT
 - PKD PARKER-KALEN NAIL AND DISK
 - POB POINT OF BEGINNING
 - POC POINT OF COMMENCEMENT
 - PRC POINT OF REVERSE CURVATURE
 - PG(S) PAGE(S)
 - R RADIUS
 - R/W RIGHT-OF-WAY

PLAT NOTES:

1. BEARING REFERENCE: ASSUMED BEARING OF N00°30'56"E ON THE WEST LINE OF LOT 1, HOME DEPOT COCOA AS RECORDED IN PLAT BOOK 57, PAGE 87, PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA.
2. SURVEY MONUMENTATION WITHIN THE SUBDIVISION SHALL BE SET IN ACCORDANCE WITH FLORIDA STATUTES, CHAPTER 177.091(9).
3. ALL PLATTED PUBLIC UTILITY EASEMENTS SHALL ALSO BE EASEMENTS FOR THE CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF CABLE TELEVISION SERVICES; PROVIDED, HOWEVER, NO SUCH CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF CABLE TELEVISION SERVICES SHALL INTERFERE WITH THE FACILITIES AND SERVICES OF AN ELECTRIC, TELEPHONE, GAS, OR OTHER PUBLIC UTILITY. IN THE EVENT A CABLE TELEVISION COMPANY DAMAGES THE FACILITIES OF A PUBLIC UTILITY, IT SHALL BE SOLELY RESPONSIBLE FOR THE DAMAGES. THIS SECTION SHALL NOT APPLY TO THOSE PRIVATE EASEMENTS GRANTED TO OR OBTAINED BY A PARTICULAR ELECTRIC, TELEPHONE, GAS, OR OTHER PUBLIC UTILITY. SUCH CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION SHALL COMPLY WITH THE NATIONAL ELECTRICAL SAFETY CODE AS ADOPTED BY THE FLORIDA PUBLIC SERVICE COMMISSION.
4. THE LANDS PLATTED HEREON ARE SUBJECT TO THE TERMS AND CONDITIONS OF THAT CERTAIN EASEMENT IN FAVOR OF FLORIDA GAS TRANSMISSION COMPANY AS REFERENCED IN FINAL JUDGMENT RECORDED IN OFFICIAL RECORDS BOOK 599, PAGE 315.
5. THE LANDS PLATTED HEREON ARE SUBJECT TO THE TERMS, COVENANTS, CONDITIONS, EASEMENTS, RESTRICTIONS AND OTHER PROVISIONS SET FORTH IN DECLARATION OF RESTRICTIONS AND GRANT OF EASEMENTS BY INTERCHANGE ASSOCIATES, INC., A DELAWARE CORPORATION, RECORDED IN OFFICIAL RECORDS BOOK 3299, PAGE 3156
6. THE 36' SHARED ACCESS EASEMENT SHOWN ON LOT 1B IS HEREBY DEDICATED TO THE OWNERS OF LOT 1A FOR VEHICULAR AND PEDESTRIAN ACCESS.
7. THE LANDS PLATTED HEREON ARE SUBJECT TO THE TERMS AND CONDITIONS OF THAT CERTAIN TWENTY (20) FOOT WIDE REUSE MAIN AND INGRESS/EGRESS EASEMENT IN FAVOR OF THE CITY OF COCOA SET FORTH IN REUSE MAIN AND WATER LINE & INGRESS/EGRESS EASEMENT RECORDED IN OFFICIAL RECORDS BOOK 3372, PAGE 4481. NOTE: THE TWENTY (20) FOOT WIDE WATER LINE AND INGRESS/EGRESS EASEMENT WHICH WAS ALSO GRANTED IN SAID INSTRUMENT WAS VACATED BY RESOLUTION NO. 2005-65 RECORDED IN OFFICIAL RECORDS BOOK 5510, PAGE 2725.
8. THE LANDS PLATTED HEREON ARE SUBJECT TO THE TERMS AND CONDITIONS OF THAT CERTAIN TWENTY (20) FOOT WIDE EASEMENT FOR SANITARY SEWER FORCE MAIN AND A TWENTY (20) FOOT WIDE EASEMENT FOR SANITARY SEWER LINE IN FAVOR OF THE CITY OF COCOA SET FORTH IN FORCE MAIN AND SEWER LINE & INGRESS/EASEMENT RECORDED IN OFFICIAL RECORDS BOOK 3372, PAGE 4486. NOTE: A PORTION OF SAID EASEMENT(S) WAS/WERE VACATED BY RESOLUTION NO. 2005-100 RECORDED IN OFFICIAL RECORDS BOOK 5557, PAGE 4594.
9. THE LANDS PLATTED HEREON ARE SUBJECT TO THE TERMS AND CONDITIONS OF THAT CERTAIN RIGHT OF WAY EASEMENT FROM INTERCHANGE ASSOCIATES, INC. IN FAVOR OF SOUTHERN BELL TELEPHONE AND TELEGRAPH COMPANY RECORDED IN OFFICIAL RECORDS BOOK 3387, PAGE 3308.
10. COVENANT SET FORTH IN SHORT FORM LEASE BY AND BETWEEN INTERCHANGE ASSOCIATES, INC., LANDLORD, AND ECKERD CORPORATION, TENANT, RECORDED IN OFFICIAL RECORDS BOOK 3511, PAGE 710, AS ASSIGNED, MODIFIED, SUPPLEMENTED AND/OR AMENDED BY THE DOCUMENTS LISTED ON EXHIBIT A OF THAT CERTAIN INSTRUMENT BY AND BETWEEN CVS EGL 524 COCOA FL, L.L.C., SUCCESSOR IN INTEREST TO ECKERD CORPORATION, TENANT, RDI DEVELOPERS, LLC, SUCCESSOR IN INTEREST TO INTERCHANGE ASSOCIATES, INC., LANDLORD, ET AL. RECORDED IN OFFICIAL RECORDS BOOK 5583, PAGE 8287.

LEGAL DESCRIPTION

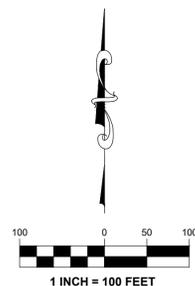
LOT 1 OF HOME DEPOT COCOA, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 57, PAGES 87 THROUGH 93, OF THE PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA.



SURVEY SYMBOL LEGEND

- PERMANENT REFERENCE MONUMENT (PRM); FD 4X4 INCH CONCRETE MONUMENT WITH DISK STAMPED PRM LB4905, UNLESS OTHERWISE NOTED
- SET 5/8" IRON ROD & CAP STAMPED "PRM LB4905" UNLESS OTHERWISE NOTED
- ▲ SET MAG NAIL & DISK STAMPED "PRM LB4905" UNLESS OTHERWISE NOTED

NOTICE: THIS PLAT, AS RECORDED IN ITS GRAPHIC FORM, IS THE OFFICIAL DEPICTION OF THE SUBDIVIDED LANDS DESCRIBED HEREIN AND WILL IN NO CIRCUMSTANCES BE SUPPLANTED IN AUTHORITY BY ANY OTHER GRAPHIC OR DIGITAL FORM OF THE PLAT. THERE MAY BE ADDITIONAL RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.



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- THIS PLAT PREPARED BY -

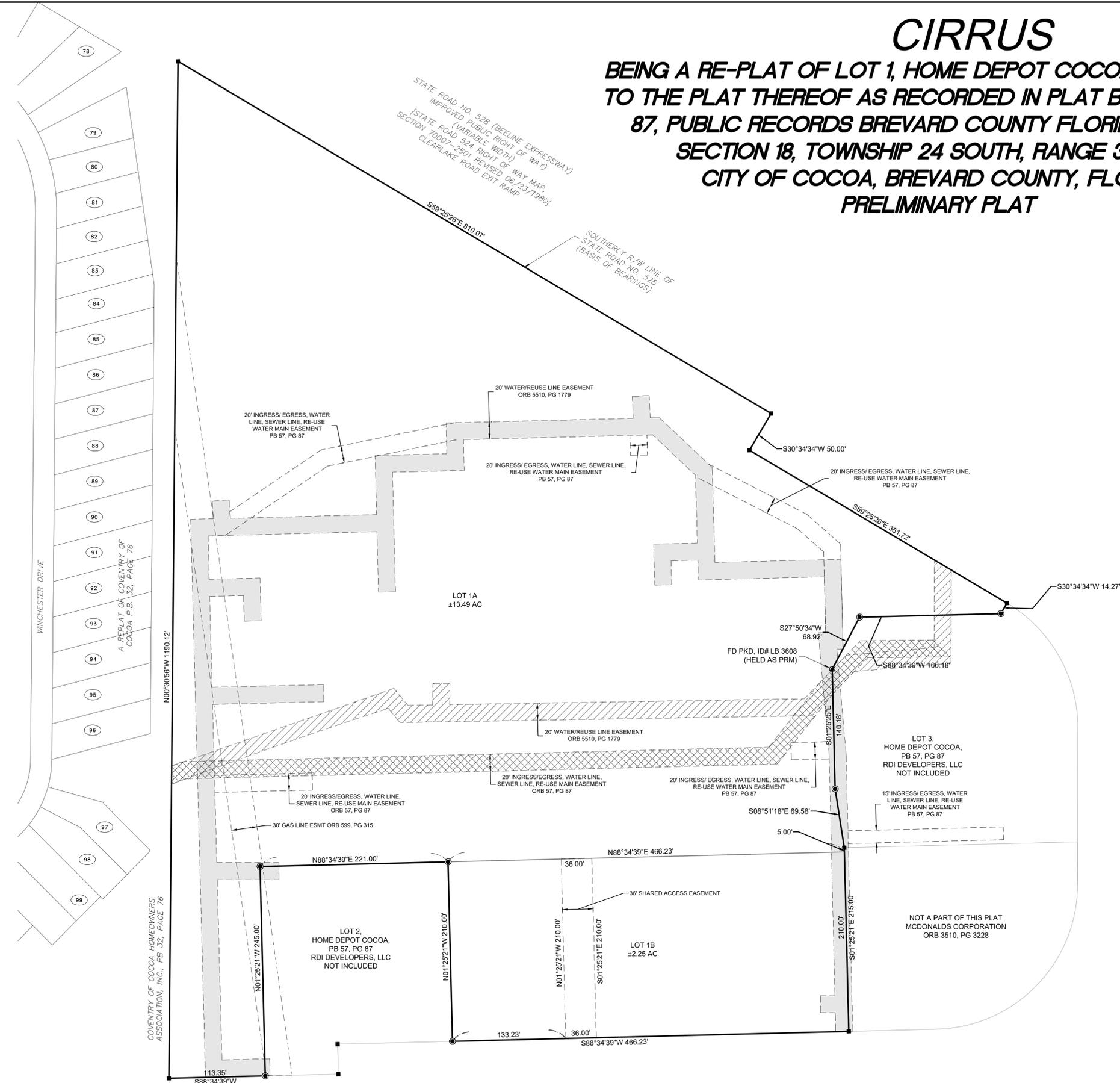
	B.S.E. CONSULTANTS, INC. CONSULTING - ENGINEERING - LAND SURVEYING 312 SOUTH HARBOR CITY BOULEVARD, SUITE 4 MELBOURNE, FL 32901 PHONE: (321) 725-8674 FAX: (321) 725-1159 CERTIFICATE OF BUSINESS AUTHORIZATION #465	DATE: 08/31/20 DESIGN/DRAWN: ALS/AH DRAWING# 11545_300_001 PROJECT# 11545
	CERTIFICATE OF LAND SURVEYING BUSINESS AUTHORIZATION LB0004905	

CIRRUS

BEING A RE-PLAT OF LOT 1, HOME DEPOT COCOA ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 57, PAGE 87, PUBLIC RECORDS BREVARD COUNTY FLORIDA, LYING IN SECTION 18, TOWNSHIP 24 SOUTH, RANGE 36 EAST CITY OF COCOA, BREVARD COUNTY, FLORIDA PRELIMINARY PLAT

- SURVEY SYMBOL LEGEND**
- PERMANENT REFERENCE MONUMENT (PRM); FD 4X4 INCH CONCRETE MONUMENT WITH DISK STAMPED "PRM LB4905", UNLESS OTHERWISE NOTED
 - SET 5/8" IRON ROD & CAP STAMPED "PRM LB4905" UNLESS OTHERWISE NOTED
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- ABBREVIATIONS**
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 - CH CHORD LENGTH
 - CM CONCRETE MONUMENT
 - DEL CENTRAL/DELTA ANGLE
 - DE PRIVATE DRAINAGE EASEMENT
 - E EAST
 - EOC END OF CURVE
 - ESMT EASEMENT
 - FD FOUND
 - FDOT FLORIDA DEPARTMENT OF TRANSPORTATION
 - FT FOOT/FEET
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 - PG(S) PAGE(S)
 - R RADIUS
 - RW RIGHT-OF-WAY
 - SEC SECTION
 - S SOUTH
 - W WEST



STATE ROAD NO. 528 AND 524
 IMPROVED PUBLIC RIGHT OF WAY
 (VARIABLE WIDTH)
 (STATE ROAD 524 RIGHT OF WAY MAP,
 SECTION 70007-2501 REVISED 06/23/1980)
 CLEARLAKE ROAD EXIT RAMP

STATE ROAD NO. 524
 IMPROVED PUBLIC RIGHT OF WAY
 (VARIABLE WIDTH)
 (STATE ROAD 524 RIGHT OF WAY MAP,
 SECTION 70007-2501
 REVISED 06/23/1980)

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- THIS PLAT PREPARED BY -

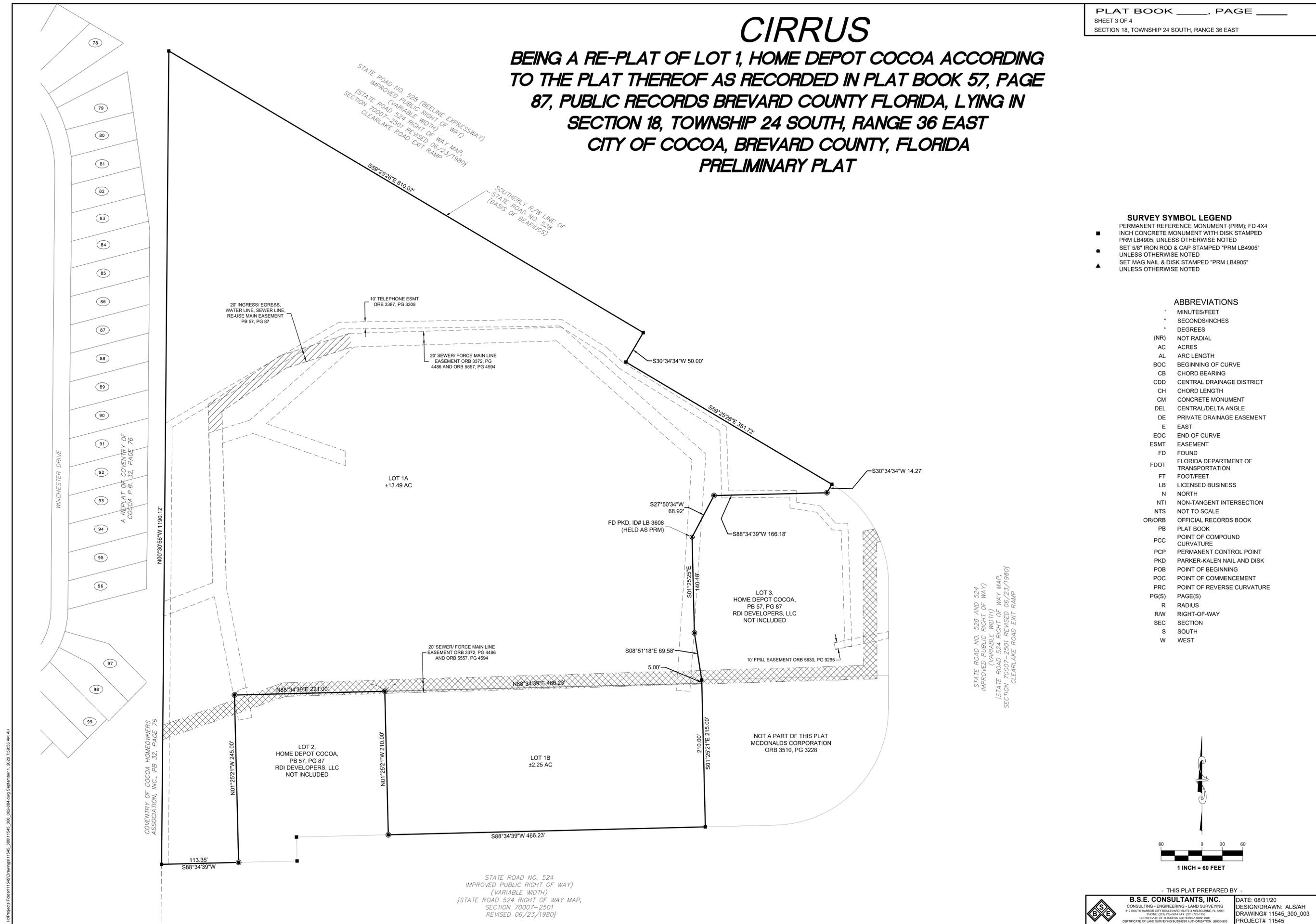
	B.S.E. CONSULTANTS, INC. CONSULTING - ENGINEERING - LAND SURVEYING 312 SOUTH HARBOR CITY BOULEVARD, SUITE 400, COCOA, FL 32909 PHONE: (321) 725-3874 FAX: (321) 725-1109 CERTIFICATE OF BUSINESS AUTHORIZATION #992	DATE: 08/31/20 DESIGN/DRAWN: ALS/AH DRAWING# 11545_300_002 PROJECT# 11545
	DATE: 08/31/20 DESIGN/DRAWN: ALS/AH DRAWING# 11545_300_002 PROJECT# 11545	
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CIRRUS

BEING A RE-PLAT OF LOT 1, HOME DEPOT COCOA ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 57, PAGE 87, PUBLIC RECORDS BREVARD COUNTY FLORIDA, LYING IN SECTION 18, TOWNSHIP 24 SOUTH, RANGE 36 EAST CITY OF COCOA, BREVARD COUNTY, FLORIDA PRELIMINARY PLAT

- SURVEY SYMBOL LEGEND**
- PERMANENT REFERENCE MONUMENT (PRM); FD 4X4 INCH CONCRETE MONUMENT WITH DISK STAMPED PRM LB4905, UNLESS OTHERWISE NOTED
 - SET 5/8" IRON ROD & CAP STAMPED "PRM LB4905" UNLESS OTHERWISE NOTED
 - ▲ SET MAG NAIL & DISK STAMPED "PRM LB4905" UNLESS OTHERWISE NOTED

- ABBREVIATIONS**
- ' MINUTES/FEET
 - " SECONDS/INCHES
 - ° DEGREES
 - (NR) NOT RADIAL
 - AC ACRES
 - AL ARC LENGTH
 - BOC BEGINNING OF CURVE
 - CB CHORD BEARING
 - CDD CENTRAL DRAINAGE DISTRICT
 - CH CHORD LENGTH
 - CM CONCRETE MONUMENT
 - DEL CENTRAL/DELTA ANGLE
 - DE PRIVATE DRAINAGE EASEMENT
 - E EAST
 - EOC END OF CURVE
 - ESMT EASEMENT
 - FD FOUND
 - FDOT FLORIDA DEPARTMENT OF TRANSPORTATION
 - FT FOOT/FEET
 - LB LICENSED BUSINESS
 - N NORTH
 - NTI NON-TANGENT INTERSECTION
 - NTS NOT TO SCALE
 - OR/ORB OFFICIAL RECORDS BOOK
 - PB PLAT BOOK
 - PCP POINT OF COMPOUND CURVATURE
 - PCP PERMANENT CONTROL POINT
 - PKD PARKER-KALEN NAIL AND DISK
 - POB POINT OF BEGINNING
 - POC POINT OF COMMENCEMENT
 - PRC POINT OF REVERSE CURVATURE
 - PG(S) PAGE(S)
 - R RADIUS
 - RW RIGHT-OF-WAY
 - SEC SECTION
 - S SOUTH
 - W WEST



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STATE ROAD NO. 524
 IMPROVED PUBLIC RIGHT OF WAY
 (VARIABLE WIDTH)
 {STATE ROAD 524 RIGHT OF WAY MAP,
 SECTION 70007-2501
 REVISED 06/23/1980}

- THIS PLAT PREPARED BY -

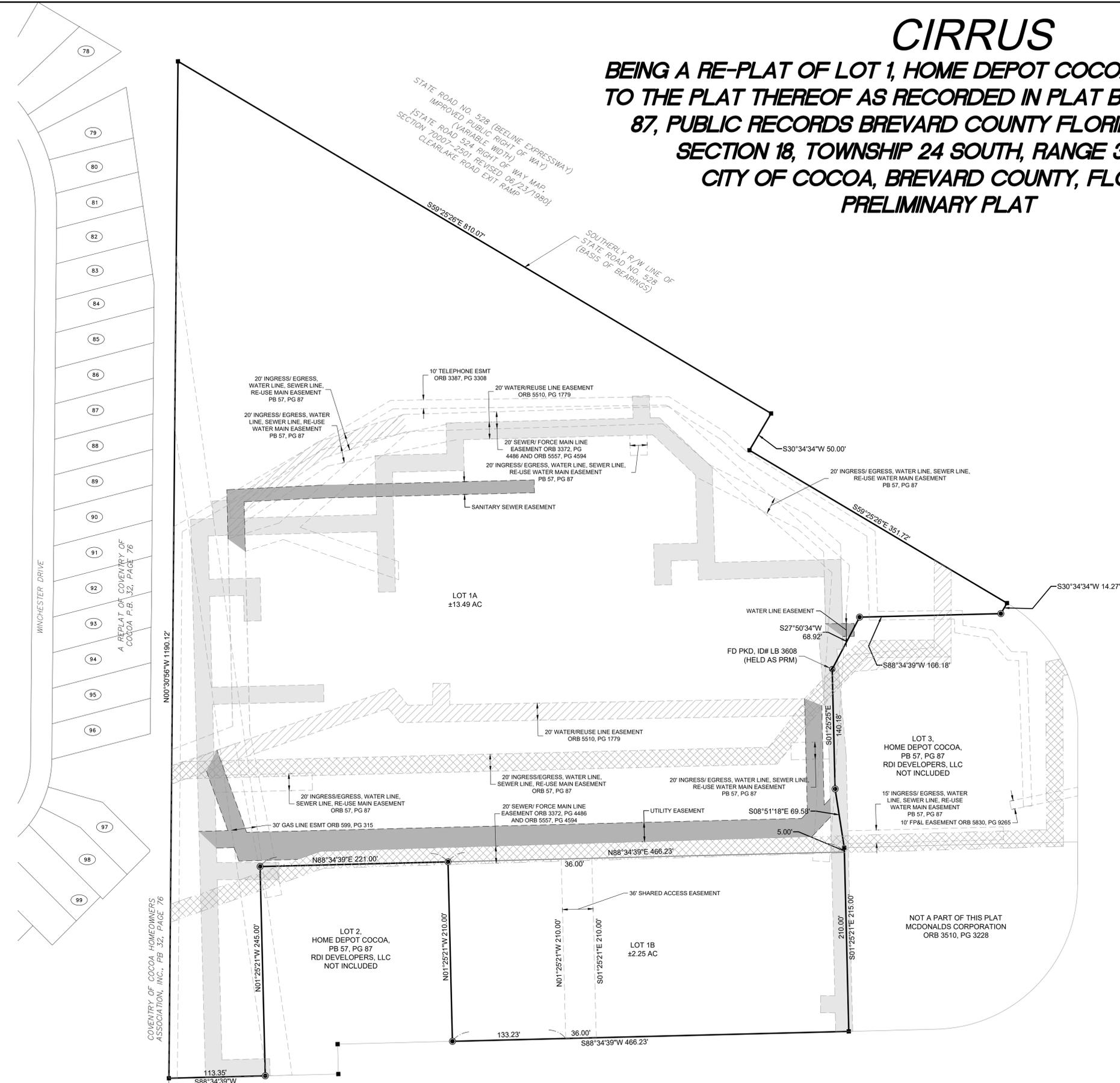
	B.S.E. CONSULTANTS, INC. CONSULTING - ENGINEERING - LAND SURVEYING 312 SOUTH HARBOR CITY BOULEVARD, SUITE 400, COCOA, FL 32909 PHONE: (321) 725-3874 FAX: (321) 725-1109 CERTIFICATE OF BUSINESS AUTHORIZATION #992	DATE: 08/31/20 DESIGN/DRAWN: ALS/AH DRAWING# 11545_300_003 PROJECT# 11545
	CERTIFICATE OF LAND SURVEYING BUSINESS AUTHORIZATION: LB0004905	

CIRRUS

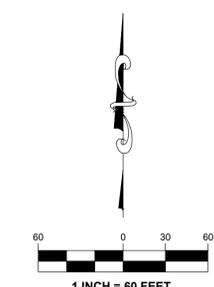
BEING A RE-PLAT OF LOT 1, HOME DEPOT COCOA ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 57, PAGE 87, PUBLIC RECORDS BREVARD COUNTY FLORIDA, LYING IN SECTION 18, TOWNSHIP 24 SOUTH, RANGE 36 EAST CITY OF COCOA, BREVARD COUNTY, FLORIDA PRELIMINARY PLAT

- SURVEY SYMBOL LEGEND**
- PERMANENT REFERENCE MONUMENT (PRM); FD 4X4 INCH CONCRETE MONUMENT WITH DISK STAMPED PRM LB4905, UNLESS OTHERWISE NOTED
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 - PRC POINT OF REVERSE CURVATURE
 - PG(S) PAGE(S)
 - R RADIUS
 - RW RIGHT-OF-WAY
 - SEC SECTION
 - S SOUTH
 - W WEST



STATE ROAD NO. 528 AND 524
 IMPROVED PUBLIC RIGHT OF WAY
 (VARIABLE WIDTH)
 {STATE ROAD 524 RIGHT OF WAY MAP,
 SECTION 70007-2501 REVISED 06/23/1980}
 CLEARLAKE ROAD EXIT RAMP



STATE ROAD NO. 524
 IMPROVED PUBLIC RIGHT OF WAY
 (VARIABLE WIDTH)
 {STATE ROAD 524 RIGHT OF WAY MAP,
 SECTION 70007-2501
 REVISED 06/23/1980}

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SURVEY NOTES:

SURVEY OF A PARCEL OF LAND IN SECTION 18, TOWNSHIP 24 SOUTH, RANGE 36 EAST, BREVARD COUNTY, FLORIDA.

SURVEY FOR BOUNDARY AND LOCATIONS OF PERTINENT VISIBLE ABOVEGROUND IMPROVEMENTS.

UNDERGROUND IMPROVEMENTS AND/OR UTILITIES SHOWN AND NOTED HEREON WERE TAKEN FROM A PREVIOUS SURVEY OF THIS AREA PERFORMED BY THIS COMPANY.

BEARING REFERENCE: ASSUMED BEARING OF S85°25'26"E ON THE SOUTHERLY RIGHT-OF-WAY LINE OF STATE ROAD NO. 524 (BEELINE EXPRESSWAY) CLEARLAKE ROAD EAST BOUND EXIT RAMP, ACCORDING TO THE PLAT OF HOME DEPOT COCOA, AS RECORDED IN PLAT BOOK 57, PAGE 87, PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA.

THE SURVEYOR RELIED SOLELY ON INFORMATION CONTAINED WITHIN THAT CERTAIN FIRST AMERICAN TITLE INSURANCE COMPANY ALTA COMMITMENT FOR TITLE INSURANCE FILE NO.: 2061-4486840, ISSUING OFFICE FILE NUMBER: 2320-TBD, COMMITMENT DATE: OCTOBER 1, 2019 AT 8:00 A.M FOR INFORMATION REGARDING EASEMENTS AFFECTING AND/OR ENCUMBERING THE LANDS SURVEYED HEREON

THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER UNLESS ELECTRONICALLY SIGNED AND SEALED IN ACCORDANCE WITH FLORIDA STATUTES CHAPTER 472.025.

THIS SURVEY MEETS THE STANDARDS OF PRACTICE FOR SURVEYS AS REQUIRED BY FLORIDA STATUTES CHAPTER 472 AND THE MINIMUM TECHNICAL STANDARDS FOR SURVEYS AS REQUIRED BY CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE.

ALL BUILDING SET BACK REQUIREMENTS ARE GRAPHICALLY DEPICTED HEREON.

THIS PROPERTY HAS DIRECT ACCESS TO A DEDICATED PUBLIC STREET VIA DRIVEWAY CONNECTIONS ON STATE ROAD 528 RE-ROUTE (STATE ROAD 524).

ELEVATIONS SHOWN ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM, 1988 (NAV88)

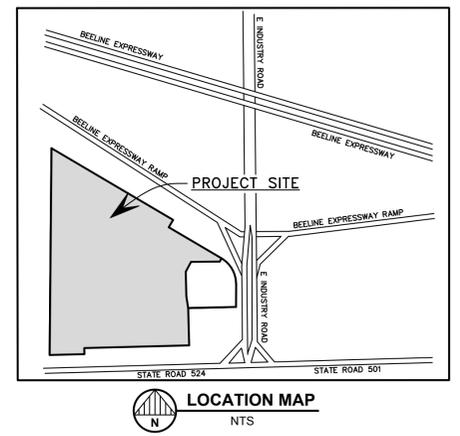
DATUM CONVERSION: NAVD88 + 1.35 = NGVD29

THIS SURVEY IS SUBJECT TO ANY ADDITIONAL EASEMENTS, RESTRICTIONS, RESERVATIONS AND RIGHTS-OF-WAY OF RECORD, (EITHER PUBLIC OR PRIVATE), WHICH MAY EXIST AND WERE NOT FURNISHED TO THE SURVEYOR.

BUILDING HEIGHT RESTRICTED TO 66 FEET AS PER CITY OF COCOA, FLORIDA CODES

PROPERTY ADDRESS: 2320 HIGHWAY 524 UNIT HOMEDE, COCOA, FLORIDA 32926

DATE OF LAST FIELD WORK: 11/11/19



DESCRIPTION FROM EXHIBIT "A" IN THAT CERTAIN FIRST AMERICAN TITLE INSURANCE COMPANY ALTA COMMITMENT FOR TITLE INSURANCE FILE NO.: 2061-4486840, ISSUING OFFICE FILE NUMBER: 2320-TBD, COMMITMENT DATE: OCTOBER 1, 2019 AT 8:00 A.M:

PARCEL 1 (FEE PARCEL): LOT 1 OF HOME DEPOT COCOA, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 57, PAGES 87 THROUGH 93, OF THE PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA.

PARCEL 2 (EASEMENT PARCEL): TOGETHER WITH THOSE CERTAIN EASEMENTS FOR ACCESS, UTILITIES AND SIGNAGE FOR THE BENEFIT OF PARCEL 1 ABOVE AS MORE FULLY DESCRIBED AND SET FORTH IN THAT CERTAIN RESTRICTIVE COVENANTS AND EASEMENT AGREEMENT BY AND BETWEEN RDI DEVELOPERS, LLC, A NEW YORK LIMITED LIABILITY COMPANY AND HOME DEPOT U.S.A., INC. RECORDED IN OFFICIAL RECORDS BOOK 5859, PAGE 8905, AS AMENDED AND MODIFIED BY FIRST AMENDMENT TO RESTRICTIVE COVENANTS AND EASEMENT AGREEMENT BY AND BETWEEN RDI DEVELOPERS, LLC, A NEW YORK LIMITED LIABILITY COMPANY AND HOME DEPOT U.S.A., INC. RECORDED IN OFFICIAL RECORDS BOOK 5868, PAGE 8944, OF THE PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA.

ITEM NUMBERS BELOW ARE IN DIRECT RELATIONSHIP TO THOSE NUMBERS IN SCHEDULE B-IJ EXCEPTIONS IN CERTAIN FIRST AMERICAN TITLE INSURANCE COMPANY ALTA COMMITMENT FOR TITLE INSURANCE FILE NO.: 2061-4486840, ISSUING OFFICE FILE NUMBER: 2320-TBD, COMMITMENT DATE: OCTOBER 1, 2019 AT 8:00 A.M:

- 1. SURVEYOR HAS NO KNOWLEDGE OF ANY DEFECTS, LIENS, ENCUMBRANCES, ADVERSE CLAIMS OR OTHER MATTERS, IF ANY, CREATED, FIRST APPEARING IN THE PUBLIC RECORDS OR ATTACHING SUBSEQUENT TO THE EFFECTIVE DATE BUT PRIOR TO THE DATE THE PROPOSED INSURED ACQUIRES FOR VALUE OF RECORD THE ESTATE OR INTEREST OR MORTGAGE THEREON COVERED BY THIS COMMITMENT.
- 2. SURVEYOR HAS NO KNOWLEDGE OF ANY RIGHTS, INTERESTS, OR CLAIMS OF PARTIES IN POSSESSION OF THE LAND NOT SHOWN BY THE PUBLIC RECORDS.
- 3. SURVEYOR HAS NO KNOWLEDGE OF ANY ENCRUMBMENT, ENCUMBRANCE, VIOLATION, VARIATION OR ADVERSE CIRCUMSTANCE AFFECTING THE TITLE OTHER THAN AS MAY BE NOTED AND/OR SHOWN HEREON.
- 4. SURVEYOR HAS NO KNOWLEDGE OF ANY LIEN, FOR SERVICES, LABOR, OR MATERIALS IN CONNECTION WITH IMPROVEMENTS, REPAIRS OR RENOVATIONS PROVIDED BEFORE, ON, OR AFTER DATE OF POLICY, NOT SHOWN BY THE PUBLIC RECORDS.
- 5. SURVEYOR HAS NO KNOWLEDGE OF ANY DISPUTE AS TO THE BOUNDARIES CAUSED BY A CHANGE IN THE LOCATION OF ANY WATER BODY WITHIN OR ADJACENT TO THE LAND PRIOR TO DATE OF POLICY, AND ANY ADVERSE CLAIM TO ALL OR PART OF THE LAND THAT IS, AT DATE OF POLICY, OR WAS PREVIOUSLY UNDER WATER.
- 6. TAXES OR SPECIAL ASSESSMENTS NOT SHOWN AS LIENS IN THE PUBLIC RECORDS OR IN THE RECORDS OF THE LOCAL TAX COLLECTING AUTHORITY, AT DATE OF POLICY, NOT A SURVEY MATTER
- 7. SURVEYOR HAS NO KNOWLEDGE OF ANY MINERALS OR MINERAL RIGHTS LEASED, GRANTED OR RETAINED BY CURRENT OR PRIOR OWNERS.
- 8. TAXES AND ASSESSMENTS FOR THE YEAR 2019 AND SUBSEQUENT YEARS, WHICH ARE NOT YET DUE AND PAYABLE. NOT A SURVEY MATTER

NOTES FOR STANDARD EXCEPTIONS: STANDARD EXCEPTIONS FOR PARTIES IN POSSESSION, FOR MECHANICS LIENS, AND FOR TAXES OR SPECIAL ASSESSMENTS NOT SHOWN AS LIENS IN THE PUBLIC RECORDS SHALL BE DELETED UPON RECEIPT OF AN ACCEPTABLE NON-LIEN AND POSSESSION AFFIDAVIT ESTABLISHING WHO IS IN POSSESSION OF THE LANDS, THAT THERE ARE NO LIENS OR ENCUMBRANCES UPON THE LANDS OTHER THAN AS SET FORTH IN THE COMMITMENT, THAT NO IMPROVEMENTS TO THE LANDS HAVE BEEN MADE WITHIN THE PAST 90 DAYS OR ARE CONTEMPLATED TO BE MADE BEFORE CLOSING THAT WILL NOT BE PAID IN FULL, AND THAT THERE ARE NO UNRECORDED TAXES OR ASSESSMENTS THAT ARE NOT SHOWN AS EXISTING LIENS IN THE PUBLIC RECORDS, ANY POLICIES ISSUED HEREUNDER MAY BE SUBJECT TO A SPECIAL EXCEPTION FOR MATTERS DISCLOSED BY SAID AFFIDAVIT.

STANDARD EXCEPTION(S) FOR QUESTIONS OF SURVEY MAY BE DELETED UPON RECEIPT AND REVIEW OF A PROPERLY CERTIFIED SURVEY MEETING THE FLORIDA MINIMUM TECHNICAL STANDARDS FOR ALL LAND SURVEYS DATED NO MORE THAN 90 DAYS PRIOR TO CLOSING OR SUCH OTHER PROOF AS MAY BE ACCEPTABLE TO THE COMPANY. ANY POLICIES ISSUED HEREUNDER MAY BE SUBJECT TO A SPECIAL EXCEPTION FOR MATTERS DISCLOSED BY SAID SURVEY OR PROOF.

- 9. EASEMENT IN FAVOR OF FLORIDA GAS TRANSMISSION COMPANY AS REFERENCED IN FINAL JUDGMENT RECORDED IN OFFICIAL RECORDS BOOK 598, PAGE 315. AFFECTS PROPERTY, SHOWN AND NOTED HEREON
- 10. TERMS, COVENANTS, CONDITIONS, EASEMENTS, RESTRICTIONS AND OTHER PROVISIONS SET FORTH IN DECLARATION OF RESTRICTIONS AND GRANT OF EASEMENTS BY INTERCHANGE ASSOCIATES, INC., A DELAWARE CORPORATION, RECORDED IN OFFICIAL RECORDS BOOK 3299, PAGE 3156. AFFECTS PROPERTY, EASEMENTS ARE BLANKET TYPE AND ARE NOT PLOTTED OR SHOWN HEREON
- 11. SHORT FORM LEASE BY AND BETWEEN INTERCHANGE ASSOCIATES, INC., A DELAWARE CORPORATION, LANDLORD, AND WINN-DIXIE STORES, INC., TENANT, RECORDED IN OFFICIAL RECORDS BOOK 3299, PAGE 3164 AND THE TERMS, COVENANTS, CONDITIONS, EASEMENTS, RESTRICTIONS AND OTHER PROVISIONS CONTAINED THEREIN. LEASE TERMINATED PER TERMS IN DOCUMENT
- 12. A TWENTY (20) FOOT WIDE REUSE MAIN AND INGRESS/EGRESS EASEMENT IN FAVOR OF THE CITY OF COCOA SET FORTH IN REUSE MAIN AND WATER LINE & INGRESS/EGRESS EASEMENT RECORDED IN OFFICIAL RECORDS BOOK 3372, PAGE 4481. NOTE: THE TWENTY (20) FOOT WIDE WATER LINE AND INGRESS/EGRESS EASEMENT WHICH WAS ALSO GRANTED IN SAID INSTRUMENT WAS VACATED BY RESOLUTION NO. 2005-65 RECORDED IN OFFICIAL RECORDS BOOK 5510, PAGE 2725. EASEMENT TERMINATED AND NO LONGER IN EFFECT PER REFERENCED RESOLUTION
- 13. TWENTY (20) FOOT WIDE EASEMENT FOR SANITARY SEWER FORCE MAIN AND A TWENTY (20) FOOT WIDE EASEMENT FOR SANITARY SEWER LINE IN FAVOR OF THE CITY OF COCOA SET FORTH IN FORCE MAIN AND SEWER LINE & INGRESS/EASEMENT RECORDED IN OFFICIAL RECORDS BOOK 3372, PAGE 4488. NOTE: A PORTION OF SAID EASEMENT WAS VACATED BY RESOLUTION NO. 2005-100 RECORDED IN OFFICIAL RECORDS BOOK 5557, PAGE 4594. AFFECTS PROPERTY, NOTED AND SHOWN HEREON
- 14. BILL OF SALE (SEWER LINES, WATER MAINS AND APPURTENANCES) FROM INTERCHANGE ASSOCIATES, INC. TO THE CITY OF COCOA RECORDED IN OFFICIAL RECORDS BOOK 3372, PAGE 4491. NOT A SURVEY MATTER
- 15. BILL OF SALE (WATER LINES, WATER MAINS AND APPURTENANCES) FROM INTERCHANGE ASSOCIATES, INC. TO THE CITY OF COCOA RECORDED IN OFFICIAL RECORDS BOOK 3372, PAGE 4495. NOT A SURVEY MATTER
- 16. RIGHT OF WAY EASEMENT FROM INTERCHANGE ASSOCIATES, INC. IN FAVOR OF SOUTHERN BELL TELEPHONE AND TELEGRAPH COMPANY RECORDED IN OFFICIAL RECORDS BOOK 3387, PAGE 3308. AFFECTS PROPERTY, SHOWN AND NOTED HEREON
- 17. COVENANT SET FORTH IN SHORT FORM LEASE BY AND BETWEEN INTERCHANGE ASSOCIATES, INC., LANDLORD, AND ECKERD CORPORATION, TENANT, RECORDED IN OFFICIAL RECORDS BOOK 3511, PAGE 710, AS ASSIGNED, MODIFIED, SUPPLEMENTED AND/OR AMENDED BY THE DOCUMENTS LISTED ON EXHIBIT A OF THAT CERTAIN INSTRUMENT BY AND BETWEEN CVS EGL 524 COCOA, F.L.L.C., SUCCESSOR IN INTEREST TO ECKERD CORPORATION, TENANT, RDI DEVELOPERS, LLC, SUCCESSOR IN INTEREST TO INTERCHANGE ASSOCIATES, INC., LANDLORD, ET AL, RECORDED IN OFFICIAL RECORDS BOOK 5883, PAGE 8287. NOT A SURVEY MATTER
- 18. SHOPPING CENTER EASEMENT AGREEMENT BY AND BETWEEN INTERCHANGE ASSOCIATES, INC. AND MCDONALD'S CORPORATION RECORDED IN OFFICIAL RECORDS BOOK 3516, PAGE 4332, AS AFFECTED BY ASSIGNMENT OF MAINTENANCE CONTRIBUTION BY AND BETWEEN RDI DEVELOPERS, LLC, A NEW YORK LIMITED LIABILITY COMPANY (SUCCESSOR TO INTERCHANGE ASSOCIATES, INC.), ASSIGNOR, AND HOME DEPOT U.S.A., INC., A DELAWARE CORPORATION, ASSIGNEE, RECORDED IN OFFICIAL RECORDS BOOK 5859, PAGE 8901. AFFECTS PROPERTY, EASEMENTS ARE BLANKET TYPE AND ARE NOT PLOTTED OR SHOWN HEREON
- 19. WATER LINE & INGRESS/EGRESS EASEMENT AGREEMENT BY AND BETWEEN INTERCHANGE ASSOCIATES, INC. AND THE CITY OF COCOA RECORDED IN OFFICIAL RECORDS BOOK 5510, PAGE 1779. AFFECTS PROPERTY, NOTED AND SHOWN HEREON
- 20. EASEMENT GRANTED BY RDI DEVELOPERS TO FAVOR OF FLORIDA POWER & LIGHT COMPANY RECORDED IN OFFICIAL RECORDS BOOK 5830, PAGE 9268. (NOTE: THERE IS NO EXHIBIT A, AS REFERRED TO IN SAID INSTRUMENT, RECORDED AS PART OF SAID INSTRUMENT) EASEMENT DOES NOT ENCUMBER PROPERTY. EASEMENT IS LOCATED OUTSIDE OF PROPERTY BOUNDARY AND IS NOTED AND SHOWN HEREON
- 21. RESTRICTIONS, DEDICATIONS, CONDITIONS, RESERVATIONS, EASEMENTS AND OTHER MATTERS CONTAINED ON THE PLAT OF HOME DEPOT COCOA, AS RECORDED IN PLAT BOOK 57, PAGES 87 THROUGH 93, BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS AFFECTED BY SCRIVENER'S ERROR AFFIDAVITS RECORDED IN OFFICIAL RECORDS BOOK 5870, PAGE 4433 AND OFFICIAL RECORDS BOOK 5873, PAGE 5734 AND AS FURTHER AFFECTED BY RELEASE FROM RDI DEVELOPERS, LLC, A NEW YORK LIMITED LIABILITY COMPANY OF THE RESERVATION SET FORTH IN ITEM 3 OF THE "PLAT NOTES" SET FORTH UPON THE PLAT OF HOME DEPOT COCOA RECORDED IN OFFICIAL RECORDS BOOK 5859, PAGE 8901. AFFECTS PROPERTY, PLOTTABLE EASEMENTS REFERENCED ON THE ABOVE NAMED PLAT ARE SHOWN AND NOTED HEREON
- 22. BILL OF SALE FROM RDI DEVELOPERS, LLC, A NEW YORK LIMITED LIABILITY COMPANY, TO HOME DEPOT U.S.A., INC., A DELAWARE CORPORATION, RECORDED IN OFFICIAL RECORDS BOOK 5859, PAGE 8898. NOT A SURVEY MATTER
- 23. TERMS, CONDITIONS, RESTRICTIONS, EASEMENTS AND OTHER PROVISIONS CONTAINED IN THAT CERTAIN RESTRICTIVE COVENANTS AND EASEMENT AGREEMENT BY AND BETWEEN RDI DEVELOPERS, LLC, A NEW YORK LIMITED LIABILITY COMPANY AND HOME DEPOT U.S.A., INC. RECORDED IN OFFICIAL RECORDS BOOK 5859, PAGE 8905, AS AMENDED AND MODIFIED BY FIRST AMENDMENT TO RESTRICTIVE COVENANTS AND EASEMENT AGREEMENT BY AND BETWEEN RDI DEVELOPERS, LLC, A NEW YORK LIMITED LIABILITY COMPANY AND HOME DEPOT U.S.A., INC. RECORDED IN OFFICIAL RECORDS BOOK 5868, PAGE 8944. AFFECTS PROPERTY, EASEMENTS ARE BLANKET TYPE AND ARE NOT PLOTTED OR SHOWN HEREON
- 24. RESTRICTIVE COVENANT SET FORTH IN SPECIAL WARRANTY DEED FROM HOME DEPOT U.S.A., INC., A DELAWARE CORPORATION TO COCOA RETAIL, LLC, A NORTH CAROLINA LIMITED LIABILITY COMPANY, RECORDED IN OFFICIAL RECORDS BOOK 1783, PAGE 2688. AFFECTS PROPERTY, NO PLOTTABLE EASEMENTS FOUND IN DOCUMENT
- 25. SURVEYOR HAS NO KNOWLEDGE OF ANY TERMS, COVENANTS, CONDITIONS AND OTHER MATTERS CONTAINED IN ANY UNRECORDED LEASE(S) AND ALL RIGHTS THEREUNDER OF THE LESSEE(S) AND OF ANY PERSON CLAIMING BY, THROUGH OR UNDER THE LESSEE(S).

DESCRIPTION OF "THE PROPERTY" BY SURVEYOR:

PART OF LOT 1, HOME DEPOT COCOA, ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 57, PAGES 87 THROUGH 93, INCLUSIVE, OF THE PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA, LYING IN SECTION 18, TOWNSHIP 24 SOUTH, RANGE 36 EAST, BREVARD COUNTY, FLORIDA BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

LOT 1 OF SAID HOME DEPOT COCOA, LESS AND EXCEPT THE FOLLOWING DESCRIBED PARCEL OF LAND:

COMMENCE AT THE SOUTHWEST CORNER OF SAID LOT 1 AND RUN ALONG THE BOUNDARY OF SAID LOT 1, N88°34'39"E A DISTANCE OF 113.35 FEET TO THE SOUTHWEST CORNER OF LOT 2 OF SAID HOME DEPOT COCOA; THENCE N01°25'21"W, ALONG THE WEST LINE OF SAID LOT 2, A DISTANCE OF 245.00 FEET TO THE NORTHWEST CORNER OF SAID LOT 2; THENCE N88°34'39"E A DISTANCE OF 221.00 FEET TO THE NORTHEAST CORNER OF SAID LOT 2 AND THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED; THENCE CONTINUE N88°34'39"E, ALONG THE EASTERLY EXTENSION OF THE NORTH LINE OF SAID LOT 2, A DISTANCE OF 466.23 FEET TO THE EASTERLY LINE OF SAID LOT 1; THENCE S01°25'21"E, ALONG SAID EASTERLY LINE, A DISTANCE OF 210.00 FEET TO THE SOUTHEAST CORNER OF SAID LOT 1, (SAID POINT ALSO BEING A POINT ON THE NORTH RIGHT-OF-WAY LINE OF STATE ROAD NO. 524); THENCE S88°34'39"W, ALONG SAID NORTH RIGHT-OF-WAY LINE, A DISTANCE OF 466.24 FEET TO THE SOUTHEAST CORNER OF SAID LOT 2; THENCE N01°25'21"W, ALONG THE EAST LINE OF SAID LOT 2, A DISTANCE OF 210.00 FEET TO THE POINT OF BEGINNING, CONTAINING 2.25 ACRES, MORE OR LESS.

CONTAINING 13.49 NET ACRES, MORE OR LESS.

DESCRIPTION OF "RETAINED BY SELLER" AREA BY SURVEYOR:

PART OF LOT 1, HOME DEPOT COCOA, ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 57, PAGES 87 THROUGH 93, INCLUSIVE, OF THE PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA, LYING IN SECTION 18, TOWNSHIP 24 SOUTH, RANGE 36 EAST, BREVARD COUNTY, FLORIDA BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHWEST CORNER OF SAID LOT 1 AND RUN ALONG THE BOUNDARY OF SAID LOT 1, N88°34'39"E A DISTANCE OF 113.35 FEET TO THE SOUTHWEST CORNER OF LOT 2 OF SAID HOME DEPOT COCOA; THENCE N01°25'21"W, ALONG THE WEST LINE OF SAID LOT 2, A DISTANCE OF 245.00 FEET TO THE NORTHWEST CORNER OF SAID LOT 2; THENCE N88°34'39"E A DISTANCE OF 221.00 FEET TO THE NORTHEAST CORNER OF SAID LOT 2; THENCE CONTINUE N88°34'39"E, ALONG THE EASTERLY EXTENSION OF THE NORTH LINE OF SAID LOT 2, A DISTANCE OF 466.23 FEET TO THE EASTERLY LINE OF SAID LOT 1; THENCE S01°25'21"E, ALONG SAID EASTERLY LINE, A DISTANCE OF 210.00 FEET TO THE SOUTHEAST CORNER OF SAID LOT 1, (SAID POINT ALSO BEING A POINT ON THE NORTH RIGHT-OF-WAY LINE OF STATE ROAD NO. 524); THENCE S88°34'39"W, ALONG SAID NORTH RIGHT-OF-WAY LINE, A DISTANCE OF 466.24 FEET TO THE SOUTHEAST CORNER OF SAID LOT 2; THENCE N01°25'21"W, ALONG THE EAST LINE OF SAID LOT 2, A DISTANCE OF 210.00 FEET TO THE POINT OF BEGINNING, CONTAINING 2.25 ACRES, MORE OR LESS.

DESCRIPTION OF "SHARED ACCESS EASEMENT" AREA BY SURVEYOR:

PART OF LOT 1, HOME DEPOT COCOA, ACCORDING TO THE MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 57, PAGES 87 THROUGH 93, INCLUSIVE, OF THE PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA, LYING IN SECTION 18, TOWNSHIP 24 SOUTH, RANGE 36 EAST, BREVARD COUNTY, FLORIDA BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHWEST CORNER OF SAID LOT 1 AND RUN ALONG THE BOUNDARY OF SAID LOT 1, N88°34'39"E A DISTANCE OF 113.35 FEET TO THE SOUTHWEST CORNER OF LOT 2 OF SAID HOME DEPOT COCOA; THENCE N01°25'21"W, ALONG THE WEST LINE OF SAID LOT 2, A DISTANCE OF 245.00 FEET TO THE NORTHWEST CORNER OF SAID LOT 2; THENCE N88°34'39"E A DISTANCE OF 221.00 FEET TO THE NORTHEAST CORNER OF SAID LOT 2; THENCE CONTINUE N88°34'39"E, ALONG THE EASTERLY EXTENSION OF THE NORTH LINE OF SAID LOT 2, A DISTANCE OF 133.23 FEET TO THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED; THENCE CONTINUE N88°34'39"E, ALONG SAID EASTERLY EXTENSION OF THE NORTH LINE OF SAID LOT 2, A DISTANCE OF 36.00 FEET; THENCE S01°25'21"E A DISTANCE OF 210.00 FEET A POINT ON THE NORTH RIGHT-OF-WAY LINE OF STATE ROAD NO. 524; THENCE S88°34'39"W, ALONG SAID NORTH RIGHT-OF-WAY LINE, A DISTANCE OF 36.00 FEET; THENCE N01°25'21"W A DISTANCE OF 210.00 FEET TO THE POINT OF BEGINNING, CONTAINING 7560 SQUARE FEET, MORE OR LESS.

ZONING INFORMATION PER CITY OF COCOA, FLORIDA CODES:

ZONING CLASSIFICATION: GENERAL COMMERCIAL (C-G)

SETBACKS: FRONT: 40 FEET

SIDE: 30 FEET WHEN CONTIGUOUS TO RESIDENTIAL AND 15 FEET WHEN CONTIGUOUS TO ANY OTHER ZONING

REAR: 30 FEET WHEN CONTIGUOUS TO RESIDENTIAL AND 20 FEET WHEN CONTIGUOUS TO ANY OTHER ZONING

NATIONAL FLOOD INSURANCE PROGRAM

- 1. MAP No. 12009C0320G
- 2. COMMUNITY No. 120200
- 3. PANEL No. 0320
- 4. SUFFIX: G
- 5. MAP REVISION: MARCH 17, 2014
- 6. THIS PROPERTY IS LOCATED IN FLOOD ZONE "X UNSHADED" - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN

SHEET INDEX table with 4 rows: GENERAL NOTES, SITE DATA, DESCRIPTIONS AND CERTIFICATIONS; OVERALL BOUNDARY; IMPROVEMENTS, ENCRUMBEMENTS AND EASEMENTS; TOPOGRAPHY, CONTOURS AND SPOT ELEVATIONS.

TOPOGRAPHIC LEGEND

- OHW --- EXISTING OVERHEAD WIRE
- WM --- EXISTING WATER MAIN
- SS --- EXISTING SANITARY SEWER
- RWLM --- EXISTING REUSE WATER MAIN
- FM --- EXISTING FORCE MAIN
- SMH SANITARY MANHOLE (SMH)
- SC SANITARY SEWER CLEANOUT (CO)
- GV GATE VALVE (GV)
- FH FIRE HYDRANT (FH)
- BO BLOWOFF (BO)
- DS TYPE 4 DRAINAGE STRUCTURE (DS)
- DR DRAINAGE STRUCTURE (DS)
- JB JUNCTION BOX (JB)
- MES MITERED END SECTION (MES)
- FES FLARED END SECTION (FES)
- UP UTILITY POLE
- GA GUY ANCHOR
- LP LIGHT POLE
- TM TELEPHONE MANHOLE
- TR TELEPHONE RISER
- SIGN SIGN
- PN PARKING SPACE NUMBERS
- CT CYPRESS TREE
- HT HOLLY TREE
- MT MAPLE TREE
- OT OAK TREE
- PT PINE TREE
- PLT PALM TREE
- TS TRAFFIC SIGNAL CONTROL BOX
- TSM TRAFFIC SIGNAL MAST ARM POLE
- PTSP PEDESTRIAN TRAFFIC SIGNAL POLE
- TSCS TRAFFIC SIGNAL CONTROL SENSOR BOX
- CONC CONCRETE

SURVEY LEGEND

- PRM PERMANENT REFERENCE MONUMENT (PRM); FD 4X4 INCH CONCRETE MONUMENT WITH DISK STAMPED PRM LB4905, UNLESS OTHERWISE NOTED
- BM BENCHMARK FOUND (MARKED AS NOTED)
- CP CONTROL POINT SET (MARKED AS NOTED)
- CF CONTROL POINT FOUND (MARKED AS NOTED)
- IR 1/2" IRON ROD & CAP SET (STAMPED "L.B. 4905")
- IRF IRON ROD & CAP FOUND (MARKED AS NOTED)
- PCP PERMANENT CONTROL POINT SET (METAL MARKER WITH A METAL DISK STAMPED "PCP" - L.B. 4905")
- PCPF PERMANENT CONTROL POINT FOUND (MARKED AS NOTED)

ABBREVIATIONS

- A/C AIR CONDITIONER
- AL ARC LENGTH
- AVE AVENUE
- BLVD BOULEVARD
- BM BENCHMARK
- BOC BEGINNING OF CURVE
- CL CENTERLINE
- CA CENTRAL ANGLE
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- CH CHORD LENGTH
- CM CONCRETE MONUMENT
- CMP CORRUGATED METAL PIPE
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- DEL DELTA / CENTRAL ANGLE
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- EOC END OF CURVE
- EOP EDGE OF PAVEMENT
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- ERCP ELLIPTICAL REINFORCED CONCRETE PIPE
- ESMT EASEMENT
- FD FOUND
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- FH FIRE HYDRANT
- FWL FLORIDA POWER AND LIGHT
- FT FEET
- HWY HIGHWAY
- ID# IDENTIFICATION NUMBER
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- IR IRON ROD
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- N# NEIGHBORHOOD IDENTIFICATION
- N&D NAIL AND DISK
- NAV88 NORTH AMERICAN VERTICAL DATUM 1988
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- NTI NON-TANGENT INTERSECTION
- NTL NON-TANGENT LINE
- NTS NOT TO SCALE
- OHE OVERHEAD ELECTRIC/ UTILITY
- OR/ORB OFFICIAL RECORDS BOOK
- PB PLAT BOOK
- POC POINT OF COMPOUND CURVATURE
- PCP PERMANENT CONTROL POINT
- PG(S) PAGE(S)
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- PP POWER/UTILITY POLE
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- R RADIUS
- R/W RIGHT-OF-WAY
- RCP REINFORCED CONCRETE PIPE
- RR RAILROAD
- ST STREET
- TYP TYPICAL

ALTA CERTIFICATION:

TO: FRAMEWORK GROUP, LLP, AKERMAN, LLP, COCOA RETAIL, LLC AND FIRST AMERICAN TITLE INSURANCE COMPANY:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1 THROUGH 6, 7(a), 7(b)(1), 7(c), 8, 9, 11, 13, 14 AND 16 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON 11/11/19.

U:\Projects\Folder11540\Drawings\11545_10011545_100_001.dwg June 22, 2020 8:16:51 AM B.

FIELD BOOK: COCOA BK 2; PAGE(S): 34; DESIGN/DRAWN: LEH; DATE: 06/08/2020



B.S.E. CONSULTANTS, INC. CONSULTING - ENGINEERING - LAND SURVEYING; 312 SOUTH HARBOR CITY BOULEVARD, SUITE 4 MELBOURNE, FLORIDA 32901; PHONE: (321) 725-3074 FAX: (321) 723-1159; CERTIFICATE OF PROFESSIONAL ENGINEERS BUSINESS AUTHORIZATION: 4905; CERTIFICATE OF LAND SURVEYING BUSINESS AUTHORIZATION: LB0044905

LOT 1, HOME DEPOT COCOA

ALTA/NSPS LAND TITLE SURVEY

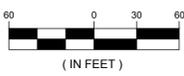
Professional information table: SCOTT M. GLAUBITZ, PROFESSIONAL LAND SURVEYOR, FLORIDA LICENSE NUMBER 4151; LESLIE E. HOWARD, PROFESSIONAL SURVEYOR & MAPPER, FLORIDA LICENSE NUMBER 5611

Project information table: PROJECT NO. 11545; DRAWING NO. 11545_100_001; SHEET 1 of 4

ITEM NUMBER	RECORDING INFORMATION	LIST TYPE	GRANTEE	STATUS
1	ORB 599, PAGE 315	GAS EASEMENT	FLORIDA GAS TRANSMISSION COMPANY	SHOWN & NOTED ON SURVEY
2	ORB 3299, PAGE 3156	BLANKET EASEMENT	VARIOUS	AFFECTS ENTIRE SITE, NOT PLOTTED
3	ORB 3372, PAGE 4486 AND ORB 5557, PAGE 4594	SEWER/FORCE MAIN LINE EASEMENT	CITY OF COCOA, FLA.	SHOWN & NOTED ON SURVEY
4	ORB 3372, PAGE 4491	BILL OF SALE	CITY OF COCOA, FLA.	AFFECTS ALL EXISTING ON-SITE SEWER LINES AND WATER MAINS, EXISTING SEWER LINES AND WATER MAINS SHOWN AND NOTED ON HEREON
5	ORB 3372, PAGE 4495	BILL OF SALE	CITY OF COCOA, FLA.	AFFECTS ALL EXISTING ON-SITE WATER LINES, WATER MAINS AND APPURTENANCES, EXISTING WATER LINES, WATER MAINS AND APPURTENANCES SHOWN AND NOTED ON HEREON
6	ORB 3387, PAGE 3308	TELEPHONE LINE EASEMENT	SOUTHERN BELL TELEPHONE AND TELEGRAPH COMPANY	SHOWN & NOTED ON SURVEY
7	ORB 3516, PAGE 4332 AND ORB 5859, PAGE 8901	BLANKET EASEMENT	McDONALD'S CORPORATION	AFFECTS ENTIRE SITE, NOT PLOTTABLE
8	ORB 5510, PAGE 1779	WATER/REUSE LINE EASEMENT	CITY OF COCOA, FLA.	SHOWN & NOTED ON SURVEY
9	ORB 5830, PAGE 9265	FP&L EASEMENT	FLORIDA POWER & LIGHT COMPANY	SHOWN & NOTED ON SURVEY, OUTSIDE BOUNDARIES OF SURVEYED PARCEL
10	PLAT BOOK 57, PAGE 87	INGRESS/EGRESS, WATER LINE, SEWER LINE, RE-USE WATER MAIN	CITY OF COCOA, FLA.	SHOWN AND NOTED ON SURVEY
11	ORB 5859, PAGE 8905 AND ORB 5868, PAGE 8944	BLANKET EASEMENT	RDI DEVELOPERS, LLC	AFFECTS ENTIRE SITE, NOT PLOTTED

SURVEY LEGEND

- PERMANENT REFERENCE MONUMENT (PRM); FD 4X4 INCH CONCRETE MONUMENT WITH DISK STAMPED FRM LB4905, UNLESS OTHERWISE NOTED
- ◆ BENCHMARK FOUND (MARKED AS NOTED)
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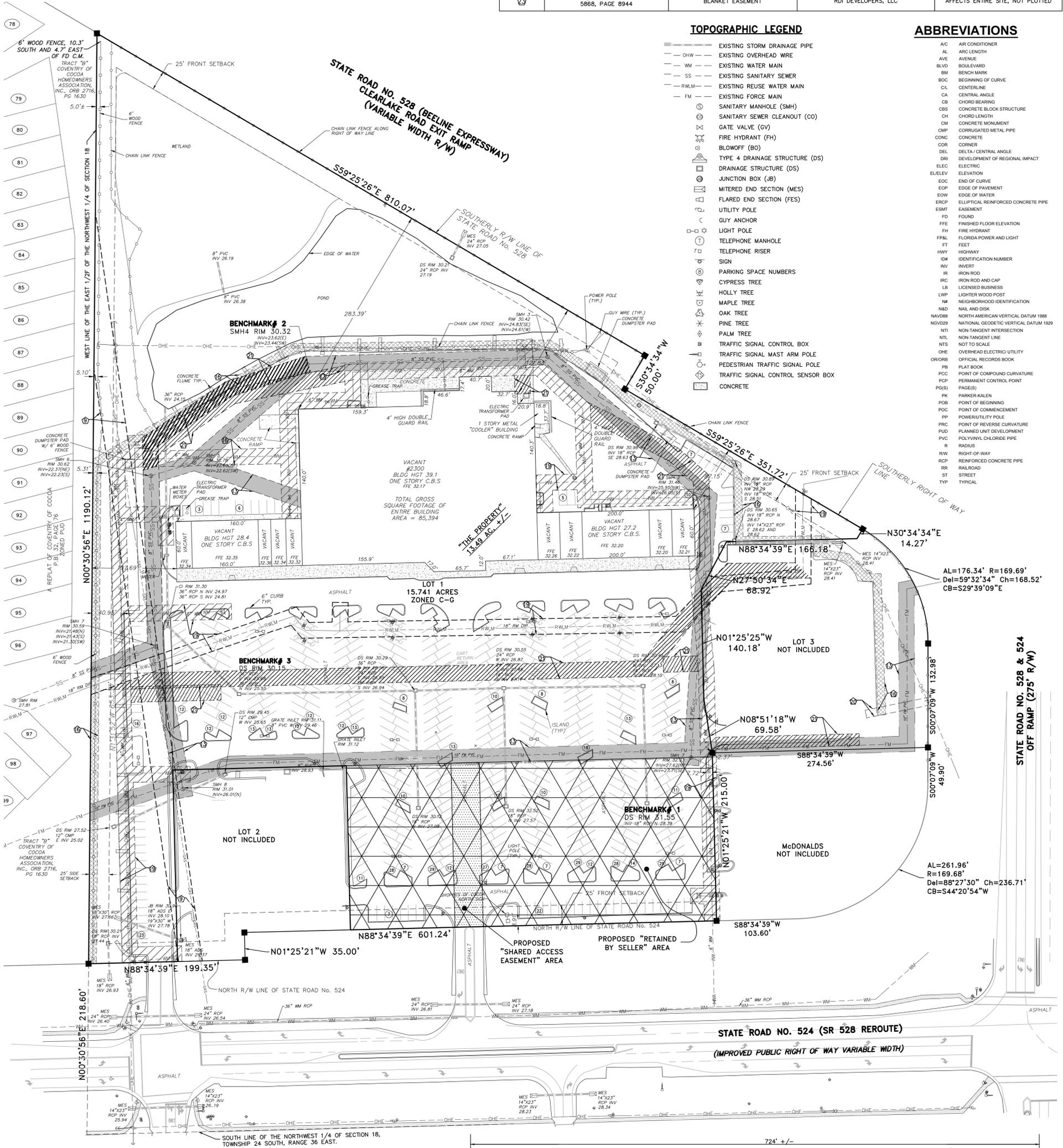


TOPOGRAPHIC LEGEND

- EXISTING STORM DRAINAGE PIPE
- OHW — EXISTING OVERHEAD WIRE
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- SS — EXISTING SANITARY SEWER
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ABBREVIATIONS

- AC AIR CONDITIONER
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ABBREVIATIONS

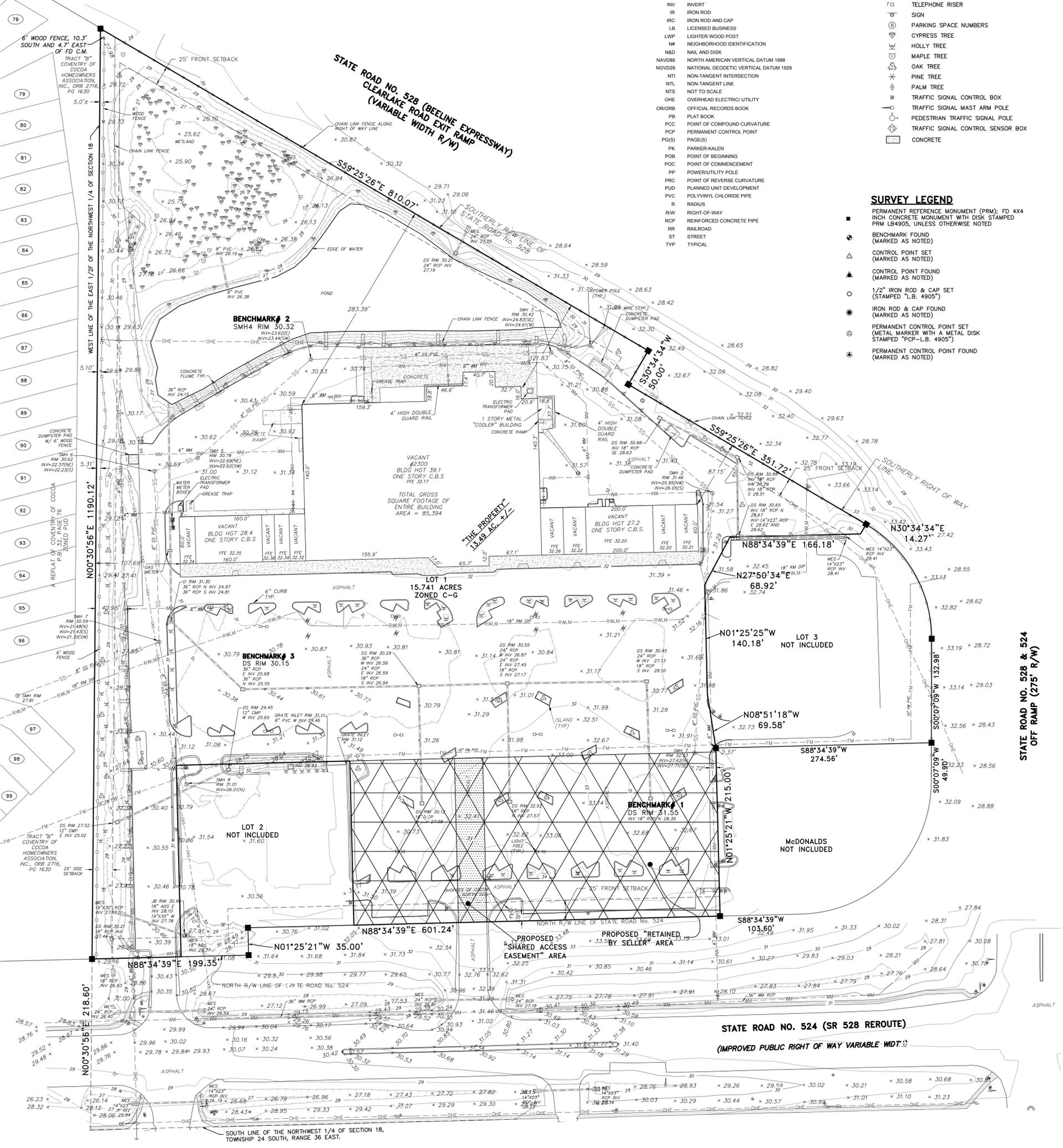
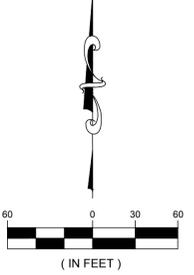
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FIELD BOOK: COCOA BK 2
 PAGE(S): 34
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B.S.E. CONSULTANTS, INC.
 CONSULTING - ENGINEERING -
 LAND SURVEYING
 312 SOUTH HARBOR CITY BOULEVARD, SUITE 4
 MELBOURNE, FLORIDA 32901
 PHONE: (321) 725-3874 FAX: (321) 723-1159
 CERTIFICATE OF PROFESSIONAL ENGINEERS
 BUSINESS AUTHORIZATION: 4909
 CERTIFICATE OF LAND SURVEYING
 BUSINESS AUTHORIZATION: LB0004905

LOT 1, HOME DEPOT COCOA
ALTA/NSPS LAND TITLE SURVEY

SCOTT M. GLAUBITZ
 PROFESSIONAL LAND SURVEYOR
 FLORIDA LICENSE NUMBER 4151
 LESLIE E. HOWARD
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PROJECT NO.
 11545
 DRAWING NO.
 11545_100_001
 SHEET
 4 of 4

TOPOGRAPHIC LEGEND

ABBREVIATIONS

SURVEY LEGEND

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SURVEY NOTES:

SURVEY OF LOT 1, HOME DEPOT COCOA, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 57, PAGE 87, PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA LYING IN SECTION 18, TOWNSHIP 24 SOUTH, RANGE 36 EAST, BREVARD COUNTY, FLORIDA.

SURVEY FOR LOCATIONS, TYPES AND SIZES OF ONSITE TREES.

BOUNDARY INFORMATION AND MONUMENTATION SHOWN WERE TAKEN FROM AN ALTANSPS AMERICAN LAND TITLE SURVEY OF THIS PROPERTY PREPARED BY THIS COMPANY, DRAWING

UNDERGROUND IMPROVEMENTS AND/OR UTILITIES SHOWN AND NOTED HEREON WERE TAKEN FROM A PREVIOUS SURVEY OF THIS AREA PERFORMED BY THIS COMPANY, DRAWING NO. 11545_100_001, PROJECT NO. 11545 DATED 06/08/2020 AND LAST REVISED 06/22/2020.

BEARING REFERENCE: ASSUMED BEARING OF S85°25'26"E ON THE SOUTHERLY RIGHT-OF-WAY LINE OF STATE ROAD NO. 528 (BEELINE EXPRESSWAY) CLEARLAKE ROAD EAST BOUND EXIT RAMP, ACCORDING TO THE PLAT OF HOME DEPOT COCOA, AS RECORDED IN PLAT BOOK 57, PAGE 87, PUBLIC RECORDS OF BREVARD COUNTY, FLORIDA.

THE SURVEYOR RELIED SOLELY ON INFORMATION CONTAINED WITHIN THAT CERTAIN FIRST AMERICAN TITLE INSURANCE COMPANY ALTA COMMITMENT FOR TITLE INSURANCE FILE NO.: 2061-4486840, ISSUING OFFICE FILE NUMBER: 2320-TBD, COMMITMENT DATE: OCTOBER 1, 2019 AT 8:00 A.M FOR INFORMATION REGARDING EASEMENTS AFFECTING AND/OR ENCUMBERING THE LANDS SURVEYED HEREON

THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER UNLESS ELECTRONICALLY SIGNED AND SEALED IN ACCORDANCE WITH FLORIDA STATUTES CHAPTER 472.025.

THIS SURVEY MEETS THE STANDARDS OF PRACTICE FOR SURVEYS AS REQUIRED BY FLORIDA STATUTES CHAPTER 472 AND THE MINIMUM TECHNICAL STANDARDS FOR SURVEYS AS REQUIRED BY CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE.

ALL BUILDING SET BACK REQUIREMENTS ARE GRAPHICALLY DEPICTED HEREON.

THIS PROPERTY HAS DIRECT ACCESS TO A DEDICATED PUBLIC STREET VIA DRIVEWAY CONNECTIONS ON STATE ROAD 528 RE-ROUTE (STATE ROAD 524).

ELEVATIONS SHOWN ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM, 1988 (NAVD88)

DATUM CONVERSION: NAVD88 + 1.35 = NGVD29

THIS SURVEY IS SUBJECT TO ANY ADDITIONAL EASEMENTS, RESTRICTIONS, RESERVATIONS AND RIGHTS-OF-WAY OF RECORD, (EITHER PUBLIC OR PRIVATE), WHICH MAY EXIST AND WERE NOT FURNISHED TO THE SURVEYOR.

BUILDING HEIGHT RESTRICTED TO 66 FEET AS PER CITY OF COCOA, FLORIDA CODES

PROPERTY ADDRESS: 2320 HIGHWAY 524 UNIT HOMEDE, COCOA, FLORIDA 32926

DATE OF LAST FIELD WORK: 11/11/19

