SITE DEVELOPMENT PLANS FOR

DUTCH BROS COFFEE

207 S. GOLDENROD RD. & HWY. 408
ORLANDO, FL 32807

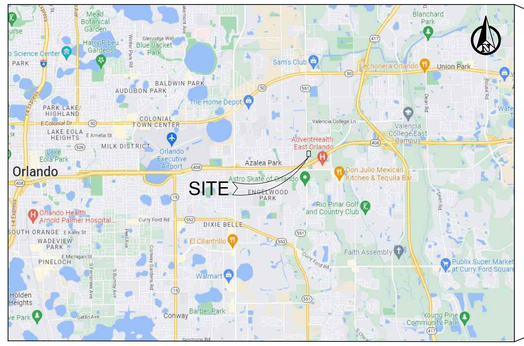
ORANGE COUNTY

PARCEL NUMBER: 26-22-30-0000-00-137

PERMIT LIST

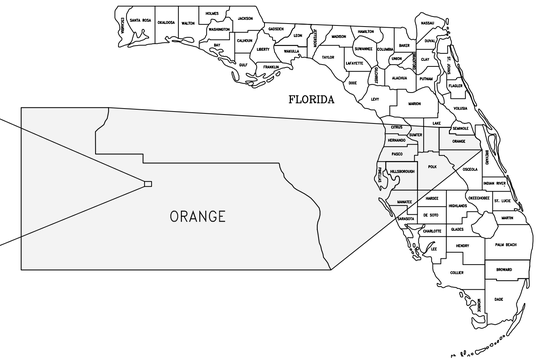
ORANGE COUNTY B23902053

SECTION 26, TOWNSHIP 22 SOUTH, RANGE 30 EAST



SITE LOCATION MAP

NTS



LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE COUNTY OF ORANGE, STATE OF FLORIDA, AND IS DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST 1/4 OF SECTION 26, TOWNSHIP 22 SOUTH, RANGE 30 EAST; THENCE N 00°28'17" W, 1,240.76 FEET; THENCE S 89°57'43" E, 50 FEET; THENCE S 1°28'17" E 48.22 FEET TO POINT OF BEGINNING; THENCE S 00°28'17E 199.28 FEET; THENCE S 89°59'30E 122.84 FEET; THENCE N 00°28'17" W 18.18 FEET TO A POINT OF CURVATURE OF A CURVE CONCAVE WESTERLY HAVING A RADIUS OF 25 FEET A CENTRAL ANGLE OF 16°7'54", A CHORD BEARING OF N 8°32'14" W, 7.02 FEET; THENCE RUN 7.04 FEET ALONG ARC OF CURVE TO POINT OF TANGENCY; THENCE N 16°36'10" W, 54.53 FEET TO A POINT OF CURVATURE OF A CURVE CONCAVE SOUTHWESTERLY HAVING A RADIUS OF 15 FEET, A CENTRAL ANGEL OF 21°14'53", A CHORD BEARING OF N 27°13'37" W 5.53 FEET; THENCE RUN 5.56 FEET ALONG ARC OF CURVE TO POINT OF TANGENCY; THENCE N 37°51'4" W, 12.04 FEET TO POINT OF CURVATURE OF A CURVE CONCAVE NORTHEASTERLY HAVING A RADIUS OF 27 FEET, A CENTRAL ANGLE OF 37°22'47", A CHORD BEARING OF N 19° '40" W, 17.3 FEET; THENCE RUN 17.61 ALONG ARC OF CURVE TO POINT OF TANGENCY; THENCE N 00°28'17" W, 111.16 FEET TO POINT OF CURVATURE OF A CURVE CONCAVE SOUTHWESTERLY HAVING A RADIUS OF 5 FEET, A CENTRAL ANGLE OF 89°29'27", A CHORD BEARING OF N 45°13'00" W, 7.04 FEET; THENCE RUN 7.81 FEET ALONG ARC OF CURVE TO POINT OF TANGENCY THEREOF; THENCE N 89°57'43" W, 61.12 FEET TO POINT OF CURVATURE OF A CURVE CONCAVE SOUTHEASTERLY HAVING A RADIUS OF 25 FEET, A CENTRAL ANGLE OF 90°30'33", A CHORD BEARING OF S 44°47'11" 35.51 FEET; THENCE RUN 39.49 FEET ALONG ARC OF CURVE TO POINT OF BEGINNING.

TOGETHER WITH A NON-EXCLUSIVE INGRESS-EGRESS EASEMENT AS SET OUT IN RECIPROCAL EASEMENT AND RESTRICTIVE COVENANT AGREEMENT RECORDED IN OFFICIAL RECORDS BOOK 6259, PAGE 2297 AND FIRST AMENDMENT RECORDED IN INSTRUMENT NO. 20180618747 AND DECLARATION OF COVENANTS AND RECIPROCAL EASEMENT AGREEMENT RECORDED IN INSTRUMENT NO. 20210162802, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA.

UTILITY PROVIDERS

SANITARY	ORANGE COUNTY UTILITIES WASTE WATER 9150 CURRY FORD RD. ORLANDO, FL 32825 CONTACT: VICTOR ANDUJAR PHONE: 407.836.7814	ELECTRIC	DUKE ENERGY 8407 BOGGY CREEK RD. ORLANDO, FL 32824 CONTACT: USIC DISPATCH PHONE: 800.778.9140
		GAS	TECO PEOPLES GAS - ORLANDO 600 W. ROBINSON ST. ORLANDO, FL 32801 CONTACT: J.J. MORRIS PHONE: 407.420.6649
WATER	ORANGE COUNTY UTILITIES WATER 9150 CURRY FORD RD. ORLANDO, FL 32825 CONTACT: VICTOR ANDUJAR PHONE: 407.836.7814	TELEPHONE	CHARTER COMMUNICATIONS CONTACT: DINO FARRUGGIO PHONE: 561.683.2729
STORMWATER	ST. JOHNS RIVER WATER MANAGEMENT DISTRICT 2501 S. BINION RD. APOPKA, FL 32703 PHONE: 386.329.4570	CABLE	CHARTER COMMUNICATIONS CONTACT: HELENE HERNANDEZ PHONE: 407.532.8092

GENERAL STATEMENT

THE PROJECT CONSISTS OF THE DEVELOPMENT OF 0.52 ± ACRES OF UNDEVELOPED LAND. THE PROPOSED IMPROVEMENTS INCLUDE, THE CONSTRUCTION OF A NEW 950 SF DUTCH BROS COFFEE SHOP AND ASSOCIATED UTILITIES, DRAINAGE, PARKING, AND LANDSCAPING. CONSTRUCTION MATERIAL QUALITY AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH, ORANGE COUNTY AND FDOT SPECIFICATIONS AND STANDARDS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

DATUM NOTE

ELEVATIONS BASED ON ORANGE COUNTY BENCHMARK "S833002" ELEVATION = 88.384' NAVD 1988 DATUM.
A "SQUARE" IN CENTERLINE OF CONCRETE SIDEWALK 75' WEST OF THE CENTERLINE OF GOLDENROD ROAD, 500' NORTH OF EAST-WEST EXPRESSWAY.

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
It's fast. It's free. It's the law.
www.callsunshine.com

FLOOD NOTE

THE DESCRIBED PARCEL LIES IN ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD EVENT, PER FEDERAL EMERGENCY MANAGEMENT (FEMA) F.I.R.M. PANEL NUMBER 12095C0270F, DATED SEPTEMBER 25, 2009,

DIRECTIONS TO PROJECT SITE

TRAVELING FL-408. TAKE EXIT 16 TOWARD FL-551 / GOLDENROD RD., FOR 0.2 MILES.
THE SITE IS ON THE RIGHT.

DEVELOPER

ACCELERATE ACQUISITIONS, LLC.
2415 EAST CAMELBACK ROAD, STE. 400
PHOENIX, AZ 85016
(602) 682-8153

LAND SURVEYOR
SHANNON SURVEYING, INC.
JAMES R. SHANNON JR.
499 NORTH S.R. 434, STE. 2045
ALTAMONTE SPRINGS, FL 32714
PHONE: (407) 772-8372

CIVIL ENGINEER
BOWMAN CONSULTING
ENGINEER OF RECORD
ANDREW PETERSEN
4450 W. EAU GALLIE BLVD., STE. 144
MELBOURNE, FL - 32934
PHONE: (321) 255-5434

Bowman

FIRM NO. 14309

SHEET INDEX

SHEET NUMBER	SHEET TITLE
C1.0	COVER SHEET
1 OF 1	ALTA - NSPS SURVEY
C2.0	EROSION CONTROL PLAN
C3.0	EROSION CONTROL DETAILS
C4.0	DEMOLITION PLAN
C5.0	SITE PLAN
C5.1	AUTO TURN
C6.0	PAVING, GRADING & DRAINAGE PLAN
C7.0	UTILITY PLAN
C8.0	DETAILS
C8.1	DETAILS
C8.2	DETAILS
C8.3	DETAILS

ANY AND ALL SIGNAGE DEPICTED WITHIN THESE DRAWINGS ARE SCHEMATIC IN NATURE. ANY APPROVAL RECEIVED FOR THIS BUILDING PERMIT DOES NOT CONSTITUTE APPROVAL FOR THE CONSTRUCTION OF ANY SIGN/SIGN STRUCTURE COVERED WITHIN ORANGE COUNTY CODE SECTION 31.5. SIGNAGE MUST COMPLY WITH ORANGE COUNTY CODE SECTION 31.5 OR ANY APPLICABLE APPROVED SIGN PLAN. ALL PROPOSED SIGNAGE, INCLUDING SIGNAGE STRUCTURES, ARE REQUIRED TO SUBMIT A SEPARATE APPLICATION AND SHALL BE PROCESSED FOR REVIEW BY ZONING, BUILDING AND DEVELOPMENT ENGINEERING

Bowman

Certificate of Authorization License No. 30462

Bowman Consulting Group, Ltd.
4450 W. Eau Gallie Blvd
Suite 144
Melbourne, FL 32934
Phone: (321) 255-5434
Fax: (321) 255-7751
www.bowman.com

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COVER SHEET
DUTCH BROS COFFEE
207 S. GOLDENROD RD. & HWY. 408
ORLANDO, FL 32807
ORANGE COUNTY
CITY OF ORLANDO

ANDREW J. PETERSEN LICENSE No. 75493 STATE OF FLORIDA PROFESSIONAL ENGINEER

ANDREW J. PETERSEN
LICENSE NO. 75493

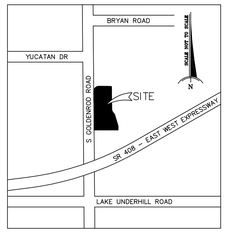
PLAN STATUS

DATE	DESCRIPTION
–	–
DESIGN	DRAWN CHKD

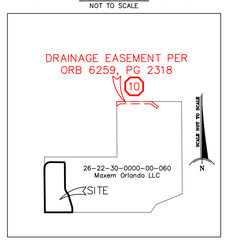
SCALE: AS SHOWN
JOB No. 011291-01-001
DATE: August, 2023
FILE: 011291-D-CP-001-COV
SHEET C1.0

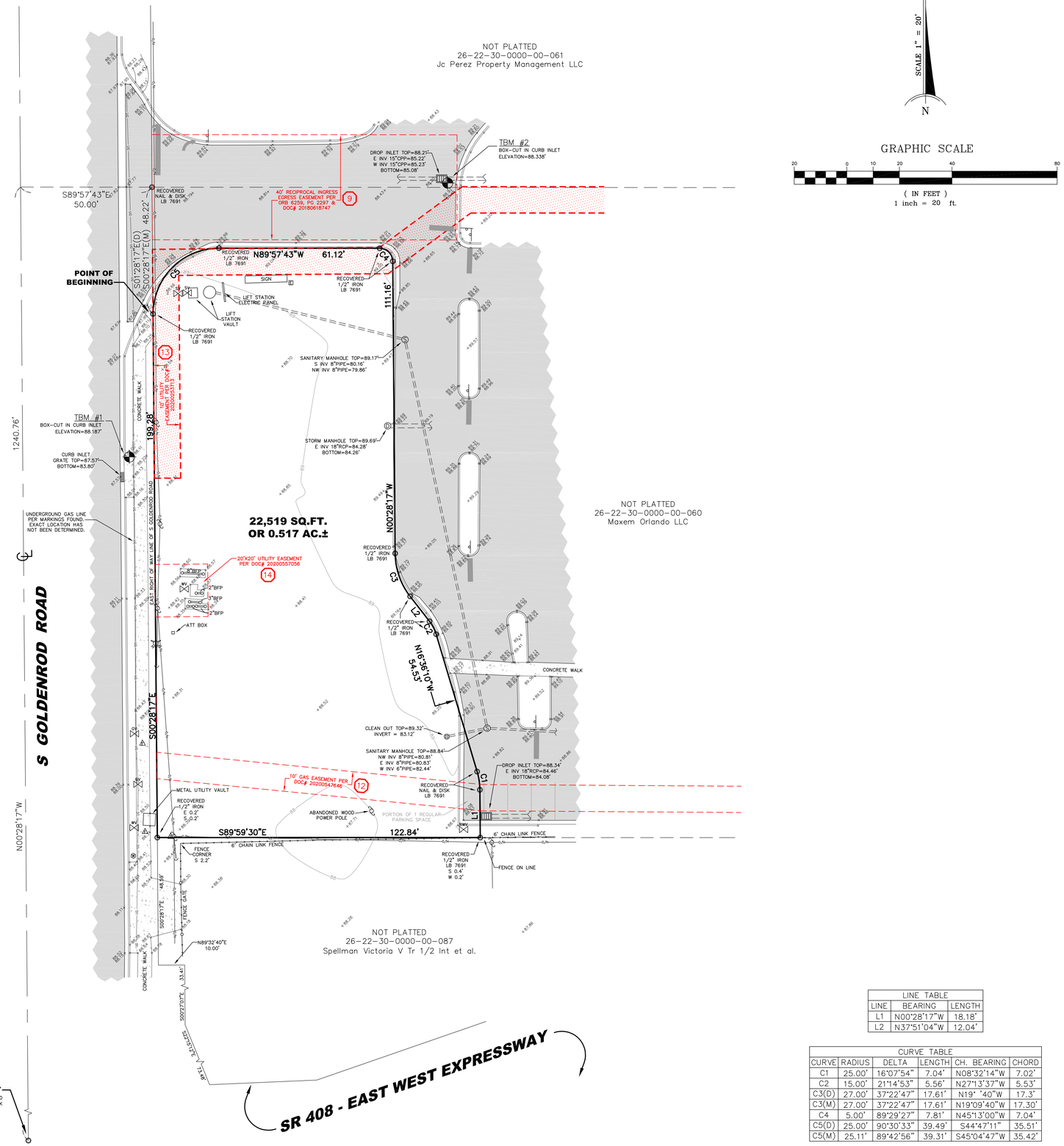
CAD file name: V:\011291 - ADS\011291-01-001 (ENG) - Dutch Bros - Orlando, FL\Engineering\Engineering Plans\011291-D-CP-001-COV.dwg, TKEENE 8/4/2023

VICINITY MAP
NOT TO SCALE



DRAINAGE EASEMENT DETAIL
NOT TO SCALE





LEGEND

- BFP BACK FLOW PREVENTER
- (D) DESCRIPTION
- (M) MEASURED
- CLEAN OUT
- STORM MANHOLE
- DROP INLET
- FIRE HYDRANT
- ELECTRICAL BOX
- FIBER OPTIC CABLE BOX
- GUY ANCHOR
- GAS VALVE
- RECLAIMED WATER VALVE
- SIGN
- SANITARY MANHOLE
- SEWER VALVE
- TELEPHONE RISER
- WOOD UTILITY POLE
- WATER METER
- WATER VALVE
- –O/H– OVERHEAD UTILITY LINE

LINE TABLE		
LINE	BEARING	LENGTH
L1	N00°28'17"W	18.18'
L2	N37°51'04"W	12.04'

CURVE TABLE					
CURVE	RADIUS	DELTA	LENGTH	CH. BEARING	CHORD
C1	25.00'	16°07'54"	7.04'	N08°32'14"W	7.02'
C2	15.00'	21°14'53"	5.56'	N27°13'37"W	5.53'
C3(D)	27.00'	37°22'47"	17.61'	N19° 40"W	17.3'
C3(M)	27.00'	37°22'47"	17.61'	N19°09'40"W	17.30'
C4	5.00'	89°29'27"	7.81'	N45°13'00"W	7.04'
C5(D)	25.00'	90°30'33"	39.49'	S44°47'11"	35.51'
C5(M)	25.11'	89°42'56"	39.31'	S45°04'47"W	35.42'

DESCRIPTION:

The Land referred to herein below is situated in the County of ORANGE, State of Florida, and is described as follows:

Commencing at the Southeast 1/4 of Section 26, Township 22 South, Range 30 East; thence N 00°28'17" W, 1,240.76 feet; thence S 89°57'43" E, 50 feet; thence S 1°28'17" E 48.22 feet to Point of Beginning; thence S 00°28'17E 199.28 feet; thence S 89°59'30E 122.84 feet; thence N 00°28'17" W 18.18 feet to a point of curvature of a curve concave westerly having a radius of 25 feet a central angle of 16°7'54", a chord bearing of N 8°32'14" W, 7.02 feet; thence run 7.04 feet along arc of curve to point of tangency; thence N 16°36'10" W, 54.53 feet to a point of curvature of a curve concave Southwesterly having a radius of 15 feet, a central angel of 21°14'53", a chord bearing of N 27°13'37" W 5.53 feet; thence run 5.56 feet along arc of curve to point of tangency; thence N 37°51'4" W, 12.04 feet to point of curvature of a curve concave northeasterly having a radius of 27 feet, a central angle of 37°22'47", a chord bearing of N 19° '40" W, 17.3 feet; thence run 17.61 along arc of curve to point of tangency; thence N 00°28'17" W, 111.16 feet to point of curvature of a curve concave southwesterly having a radius of 5 feet, a central angle of 89°29'27", a chord bearing of N 45°13'00" W, 7.04 feet; thence run 7.81 feet along arc of curve to point of tangency thereof; thence N 89°57'43" W, 61.12 feet to point of curvature of a curve concave southeasterly having a radius of 25 feet, a central angle of 90°30'33", a chord bearing of S 44°47'11" 35.51 feet; thence run 39.49 feet along arc of curve to Point of Beginning.

TOGETHER WITH a non-exclusive ingress-egress easement as set out in Reciprocal Easement and Restrictive Covenant Agreement recorded in Official Records Book 6259, Page 2297 and First Amendment recorded in Instrument No. 20180618747 and Declaration of Covenants and Reciprocal Easement Agreement recorded in Instrument No. 20210162802, Public Records of Orange County, Florida.

First American Title Insurance Company's Title Commitment No. 2037-6269308, with a commitment date of November 17, 2022 at 8:00 a.m., Schedule B-Section II Exceptions:

Items 1 through 8 are standard and/or not a survey related items.

9. Reciprocal Easement and Restrictive Covenant Agreement recorded May 16, 2001 in Book 6259, Page 2297, as affected by First Amendment to Reciprocal Easement and Restrictive Covenant Agreement recorded October 22, 2022 in Instrument No. 20180618747. (As to Fee and Easement Property) *PLOTTED.*
10. Drainage Easement Agreement in favor of Amoco Oil Company recorded May 16, 2001 in Book 6259, Page 2309. (As to Fee Property) *PLOTTED. SEE DETAIL FOR LOCATION.*
11. INTENTIONALLY DELETED
12. Grant of Non-Exclusive Utility Easement in favor of Peoples Gas System, a division of Tampa Electric Company, a Florida corporation recorded February 14, 2020 in Instrument No. 20200094260, as amended by Easement Amendment Agreement recorded October 20, 2020 in Instrument No. 20200547646. (As to Fee Property). *PLOTTED.*
13. Easement in favor of Duke Energy Florida, LLC, a Florida limited liability company d/b/a Duke Energy recorded April 27, 2020 in Instrument No. 20200253713. (As to Fee Property) *PLOTTED.*
14. Utility Easement in favor of Orange County, a charter county and political subdivision of the State of Florida recorded October 26, 2020 in Instrument No. 20200557056. (As to Fee Property) *PLOTTED.*
15. Declaration of Covenants and Reciprocal Easement Agreement recorded March 22, 2021 in Instrument No. 20210162802. (As to Fee Property) *SUBJECT TO AGREEMENT. NOT A PLOTTABLE ITEM.*
16. Declaration of Covenants, Conditions, Restrictions and Easements, including any amendments or modifications thereto, contained in Quit Claim Deed recorded August 28, 2006 in Book 8831, Page 4703, but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status or national origin to the extent such covenants, conditions or restrictions violate 42 USC 3604(c). (As to Easement Property) *SUBJECT TO. NOT A PLOTTABLE ITEM.*
17. Petroleum Deed Restrictions recorded December 18, 2020 in Instrument No. 20200664243, but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status or national origin to the extent such covenants, conditions or restrictions violate 42 USC 3604(c). (As to Easement Property) *SUBJECT TO. NOT A PLOTTABLE ITEM.*
18. Terms and conditions of any existing unrecorded lease(s), and all rights of lessee(s) and any parties claiming through the lessee(s) under the lease(s). *SUBJECT TO. NOT A PLOTTABLE ITEM.*

NOTES:

- BEARINGS BASED ON THE EAST RIGHT OF WAY LINE OF S. GOLDENROD ROAD, AS HAVING A BEARING OF S00°28'17"E.
- NO UNDERGROUND UTILITIES, UNDERGROUND FOUNDATIONS, OR UNDERGROUND SIGN BASES WERE LOCATED.
- THE GRAVITY LINE CONNECTING THE SANITARY MANHOLE TO THE LIFT STATION NEEDS TO BE FIELD VERIFIED.
- THE LEGAL DESCRIPTION AS PROVIDED DOES NOT MATHEMATICALLY CLOSE. ANY DISCREPANCIES BETWEEN THE LEGAL DESCRIPTION AND SURVEYED BOUNDARY ARE NOTED AS (D) FOR DESCRIPTION CALLS AND (M) FOR MEASURED CALLS.

ALTA/NSPS TABLE A ITEMS:

1) CORNERS SET OR RECOVERED AS NOTED.
2) SITE ADDRESS: S GOLDENROD ROAD, ORLANDO, FL 32807.
3) ACCORDING TO F.I.R.M. PANEL NUMBER 12095C0270F, DATED SEPTEMBER 25, 2009, THE DESCRIBED PARCEL LIES N ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.
4) CONTAINS 22,519 SQUARE FEET OR 0.517 ACRES, MORE OR LESS.
5) ELEVATIONS BASED ON ORANGE COUNTY BENCHMARK "S833002" ELEVATION = 88.384' NAVD 1988 DATUM. A "SQUARE" IN CENTERLINE OF CONCRETE SIDEWALK 75' WEST OF THE CENTERLINE OF GOLDENROD ROAD, 500' NORTH OF EAST-WEST EXPRESSWAY.
6) NO ZONING REPORT SUPPLIED.
7) SITE IS VACANT AND HAS NO BUILDINGS.
8) SUBSTANTIAL FEATURES HAVE BEEN PLOTTED.
9) SITE CONTAINS A PORTION OF 1 REGULAR PARKING SPACE.
10) NO PARTY WALLS EXIST ON SITE.
11) UNDERGROUND GAS LINE SHOWN PER MARKINGS FOUND.
13) NAMES OF ADJOINING OWNERS ARE SHOWN.
14) DISTANCE SHOWN TO EAST WEST EXPRESSWAY.
16) NO CURRENT EARTHWORK.
17) NO KNOWN PROPOSED CHANGES IN STREET RIGHT OF WAY LINES AT TIME OF SURVEY.
18) LOCATION OF OFF-SITE DRAINAGE EASEMENT SHOWN IN DETAIL.

ALTA/NSPS SURVEY

Certified to Accelerated Acquisitions, LLC, an Arizona limited liability company; 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 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes items 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 16, 17 18 and 19 of Table A thereof. The fieldwork was completed on 12/27/2022.

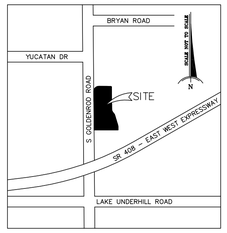
Date of plat of map: 01/06/2023

JAMES R. SHANNON, JR., P.L.S. #4671
NOT VALID WITHOUT THE SIGNATURE AND THE SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

SHANNON SURVEYING, INC.
499 NORTH S.R. 434 – SUITE 2045
ALTAMONTE SPRINGS, FLORIDA, 32714
(407) 774-8372 LB # 6898

DATE OF SURVEY: 12/27/2022
FIELD BY: KH SCALE: 1" = 20'
FILE NUMBER: 26-22-30-137-GOLDENROD

VICINITY MAP
NOT TO SCALE



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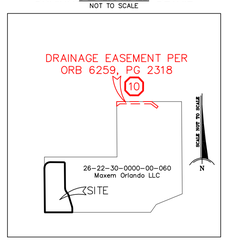

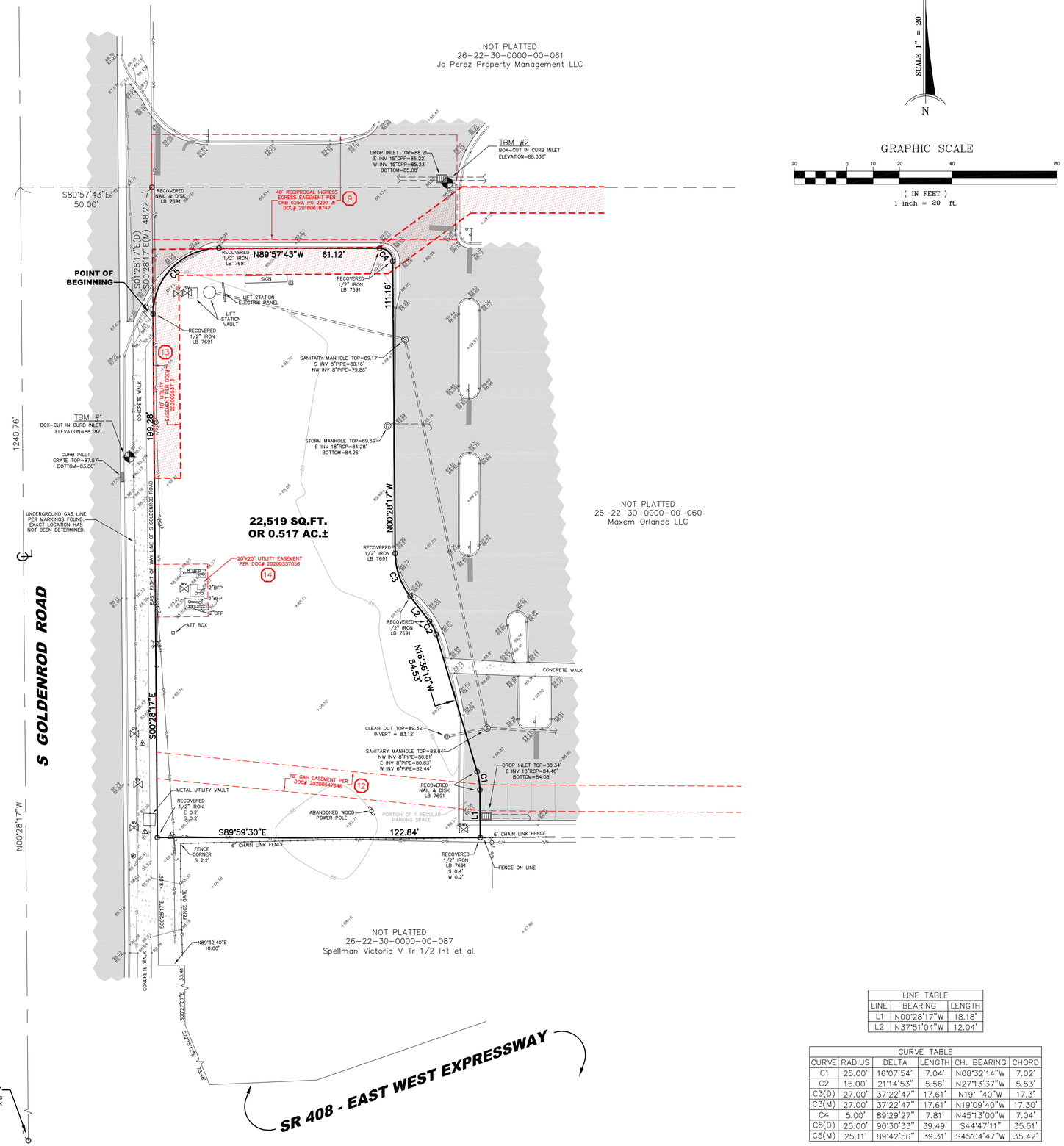

SCALE 1" = 20'

N

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

LEGEND

BFP	BACK FLOW PREVENTER
(D)	DESCRIPTION
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	DROP INLET
	FIRE HYDRANT
	ELECTRICAL BOX
	FIBER OPTIC CABLE BOX
	GUY ANCHOR
GV	GAS VALVE
RW	RECLAIMED WATER VALVE
	SIGN
S	SANITARY MANHOLE
SV	SEWER VALVE
	TELEPHONE RISER
	WOOD UTILITY POLE
WM	WATER METER
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TOGETHER WITH a non-exclusive ingress-egress easement as set out in Reciprocal Easement and Restrictive Covenant Agreement recorded in Official Records Book 6259, Page 2297 and First Amendment recorded in Instrument No. 20180618747 and Declaration of Covenants and Reciprocal Easement Agreement recorded in Instrument No. 20210162802, Public Records of Orange County, Florida.

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14. Utility Easement in favor of Orange County, a charter county and political subdivision of the State of Florida recorded October 26, 2020 in Instrument No. 20200557056. (As to Fee Property) *PLOTTED.*

15. Declaration of Covenants and Reciprocal Easement Agreement recorded March 22, 2021 in Instrument No. 20210162802. (As to Fee Property) *SUBJECT TO AGREEMENT. NOT A PLOTTABLE ITEM.*

16. Declaration of Covenants, Conditions, Restrictions and Easements, including any amendments or modifications thereto, contained in Quit Claim Deed recorded August 28, 2006 in Book 8831, Page 4703, but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status or national origin to the extent such covenants, conditions or restrictions violate 42 USC 3604(c). (As to Easement Property) *SUBJECT TO. NOT A PLOTTABLE ITEM.*

17. Petroleum Deed Restrictions recorded December 18, 2020 in Instrument No. 20200664243, but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status or national origin to the extent such covenants, conditions or restrictions violate 42 USC 3604(c). (As to Easement Property) *SUBJECT TO. NOT A PLOTTABLE ITEM.*

18. Terms and conditions of any existing unrecorded lease(s), and all rights of lessee(s) and any parties claiming through the lessee(s) under the lease(s). *SUBJECT TO. NOT A PLOTTABLE ITEM.*

NOTES:

- BEARINGS BASED ON THE EAST RIGHT OF WAY LINE OF S. GOLDENROD ROAD, AS HAVING A BEARING OF S00°28'17"E.
- NO UNDERGROUND UTILITIES, UNDERGROUND FOUNDATIONS, OR UNDERGROUND SIGN BASES WERE LOCATED.
- THE GRAVITY LINE CONNECTING THE SANITARY MANHOLE TO THE LIFT STATION NEEDS TO BE FIELD VERIFIED.
- THE LEGAL DESCRIPTION AS PROVIDED DOES NOT MATHEMATICALLY CLOSE. ANY DISCREPANCIES BETWEEN THE LEGAL DESCRIPTION AND SURVEYED BOUNDARY ARE NOTED AS (D) FOR DESCRIPTION CALLS AND (M) FOR MEASURED CALLS.

ALTA/NSPS TABLE A ITEMS:

1) CORNERS SET OR RECOVERED AS NOTED.
2) SITE ADDRESS: S GOLDENROD ROAD, ORLANDO, FL 32807.
3) ACCORDING TO F.I.R.M. PANEL NUMBER 12095C0270F, DATED SEPTEMBER 25, 2009, THE DESCRIBED PARCEL LIES N ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.
4) CONTAINS 22,519 SQUARE FEET OR 0.517 ACRES, MORE OR LESS.
5) ELEVATIONS BASED ON ORANGE COUNTY BENCHMARK "S833002" ELEVATION = 88.384' NAVD 1988 DATUM. A "SQUARE" IN CENTERLINE OF CONCRETE SIDEWALK 75' WEST OF THE CENTERLINE OF GOLDENROD ROAD, 500' NORTH OF EAST-WEST EXPRESSWAY.
6) NO ZONING REPORT SUPPLIED.
7) SITE IS VACANT AND HAS NO BUILDINGS.
8) SUBSTANTIAL FEATURES HAVE BEEN PLOTTED.
9) SITE CONTAINS A PORTION OF 1 REGULAR PARKING SPACE.
10) NO PARTY WALLS EXIST ON SITE.
11) UNDERGROUND GAS LINE SHOWN PER MARKINGS FOUND.
13) NAMES OF ADJOINING OWNERS ARE SHOWN.
14) DISTANCE SHOWN TO EAST WEST EXPRESSWAY.
16) NO CURRENT EARTHWORK.
17) NO KNOWN PROPOSED CHANGES IN STREET RIGHT OF WAY LINES AT TIME OF SURVEY.
18) LOCATION OF OFF-SITE DRAINAGE EASEMENT SHOWN IN DETAIL.

ALTA/NSPS SURVEY

Certified to Accelerated Acquisitions, LLC, an Arizona limited liability company; 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 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes items 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 16, 17 18 and 19 of Table A thereof. The fieldwork was completed on 12/27/2022.

Date of plat of map: 01/06/2023

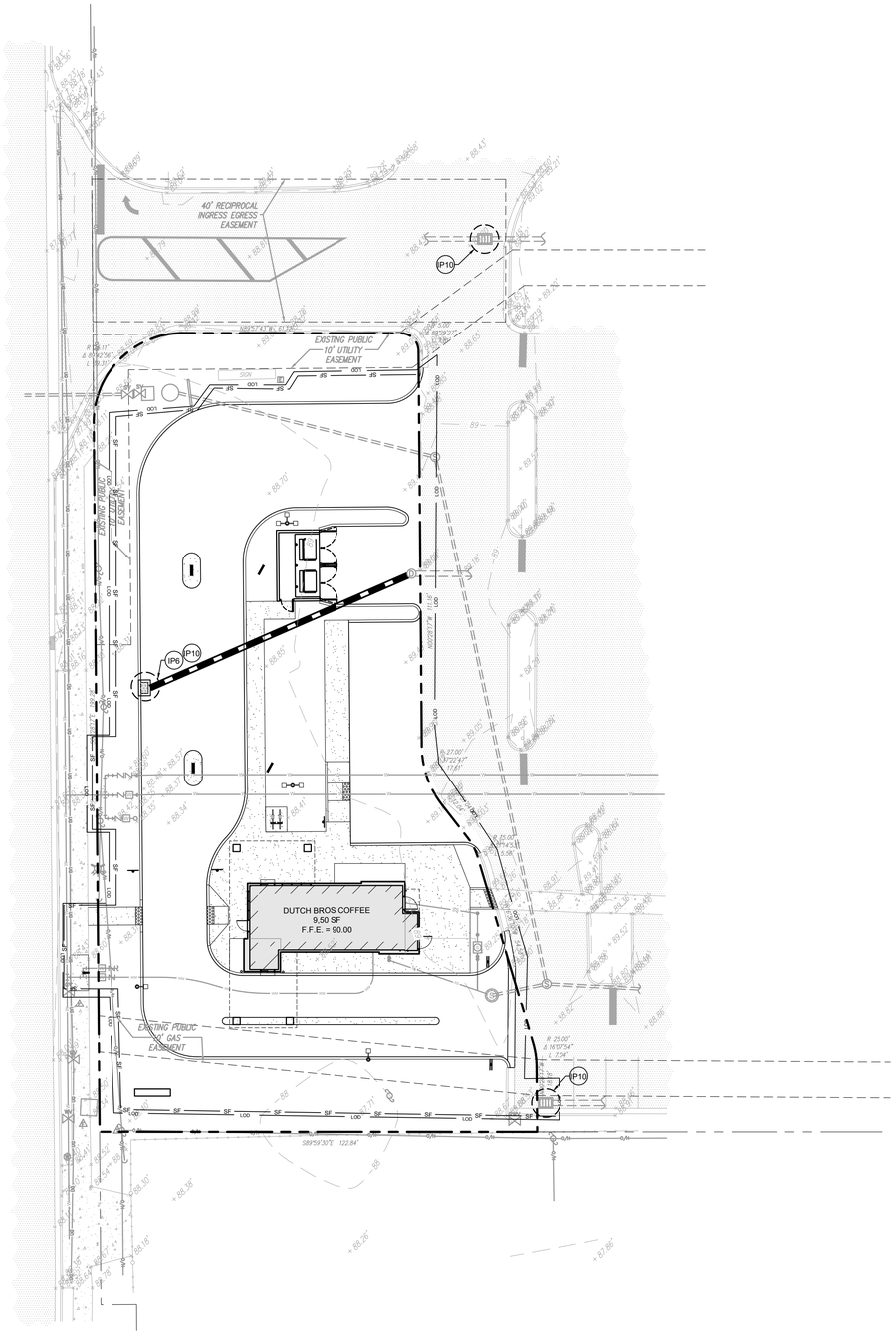
James R Shannon

Digitally signed by James R Shannon
Date: 2023.01.13 11:50:09 -05'00'

JAMES R. SHANNON, JR., P.L.S. #4671
NOT VALID WITHOUT THE SIGNATURE AND THE SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

SHANNON SURVEYING, INC.
499 NORTH S.R. 434 – SUITE 2045
ALTAMONTE SPRINGS, FLORIDA, 32714
(407) 774-8372 LB # 6898

DATE OF SURVEY: 12/27/2022
FIELD BY: KH SCALE: 1" = 20'
FILE NUMBER: 26-22-30-137-GOLDENROD



EROSION CONTROL NOTES

1. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP AND THAT CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DIRECTED BY PERMITTING AGENCY AND OWNER OR AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
2. PERMIT FOR ANY CONSTRUCTION ACTIVITY MUST BE MAINTAINED ON SITE AT ALL TIMES.
3. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
4. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
5. ALL WASH WATER SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
6. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
7. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
8. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
9. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.
10. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS STOPPED FOR AT LEAST 7 DAYS, SHALL BE TEMPORARILY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS.
11. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE SODDED/LANDSCAPED PER PLANS. THESE AREA SHALL BE SEEDED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
12. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
13. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
14. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
15. ON-SITE AND OFFSITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
16. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
17. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT CONTROL MEASURES TO PREVENT EROSION AND SEDIMENTATION.
18. CONTRACTOR SHALL DESIGNATE/IDENTIFY AREAS INSIDE THE LIMITS OF DISTURBANCE, FOR WASTE DISPOSAL AND DELIVERY AND MATERIAL STORAGE.
19. CONTRACTOR TO LIMIT DISTURBANCE OF SITE IN STRICT ACCORDANCE WITH THE EROSION CONTROL SEQUENCING SHOWN ON THIS PLAN, NO UNNECESSARY OR IMPROPERLY SEQUENCED CLEARING AND/OR GRADING SHALL BE PERMITTED.
20. CONTRACTOR SHALL PERIODICALLY SWEEP EXISTING ON-SITE PAVED SURFACES AS WELL AS ALL ABUTTING CITY STREETS, COUNTY ROADS AND STATE HIGHWAYS (AS APPROPRIATE FOR THE PARTICULAR PROJECT) TO KEEP THOSE SURFACES IN A SUBSTANTIALLY SEDIMENT-FREE CONDITION. SWEEPING SHALL BE DONE ON A PERIODIC, AS-NEEDED BASIS THROUGHOUT THE WORK WEEK INCLUDING, MOST IMPORTANTLY, AFTER EVERY RAIN EVENT AND EVERY FRIDAY AFTERNOON PRIOR TO CEASING WORK FOR THE WEEK.
21. CONTRACTOR SHALL DEVELOP AND IMPLEMENT A PLAN TO ASSURE THAT ALL WASTE, SUCH AS DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASH-OUT, CHEMICALS, LITTER AND SANITARY WASTE, ARE PROPERLY CONTROLLED WHILE ON-SITE AND TRANSPORTED AND DISPOSED OF (OFF-SITE) IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. NO WASTE MATERIALS OF ANY KIND ARE PERMITTED TO BE BURIED ON-SITE OR DISCHARGED TO SURFACE WATERS OF THE STATE OR TO THE CITY STORM WATER SYSTEM.
22. ALL MATERIALS, MACHINERY AND VEHICLES SHALL BE STORED ON-SITE IN AN ORDERLY ORGANIZED FASHION.
23. THE CONTRACTOR TO RE-VERIFY ALL UTILITY LOCATIONS AND SIZES PRIOR TO CONSTRUCTION.

BMP MAINTENANCE NOTES

ALL MEASURES STATED ON THESE PLANS SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR COMPLETED PHASE OF WORK OF FINAL STABILIZATION OF THE SITE. SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONSTRUCTION GENERAL PERMIT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF DETERIORATION.
2. ALL SEEDED/SODDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHALL BE FERTILIZED, WATERED AND REPAIRED AS NEEDED.
3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCE WHEN IT REACHES ONE-HALF THE HEIGHT OF THE FENCE.
4. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF SEDIMENT FROM THE SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE EXIT AS CONDITIONS DEMAND.
5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN A GOOD CONDITION. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE AREA AS CONDITIONS DEMAND.
6. PRIOR TO LEAVING THE SITE, ALL VEHICLES SHALL BE CLEANED OF DEBRIS. ANY DEBRIS AND/OR SEDIMENT LEAVING THE SITE SHALL BE CLEANED IMMEDIATELY.
7. ALL INLETS AND STORM DRAINS SHALL BE KEPT CLEAN OF DEBRIS AND SEDIMENT. ANY DEBRIS AND/OR SEDIMENT THAT ENTERS ANY INLET OR STORM DRAIN SHALL BE CLEANED IMMEDIATELY. FLUSHING SHALL NOT BE USED TO CLEAN DEBRIS AND/OR SEDIMENT FROM STORM DRAINS.

CONSTRUCTION SEQUENCE

1. CONDUCT PRE-CONSTRUCTION MEETING WITH THE CITY TO DISCUSS EROSION AND SEDIMENT CONTROLS AND CONSTRUCTION PHASING.
2. INSTALL STABILIZED CONSTRUCTION EXIT AND POST SWPPP AND SITE COMPLIANCE SIGNAGE THAT IS PUBLICLY VISIBLE.
3. INSTALL CONSTRUCTION FENCES AND TEMPORARY TRAFFIC AND PEDESTRIAN CONTROL DEVICES.
4. INSTALL INLET PROTECTION, SILT DIKES, AND SILT FENCE ON THE SITE AS SHOWN WITHIN THE CONSTRUCTION LIMITS.
5. PREPARE TEMPORARY PARKING AND STORAGE AREAS.
6. DEMO EXISTING STRUCTURES, PAVEMENT, AND SPECIFIED UTILITIES.
7. BEGIN GRADING THE SITE.
8. BEGIN CONSTRUCTION OF UTILITIES.
9. BEGIN SUBGRADE PREPARATION AND CONSTRUCTION OF STRUCTURES.
10. BEGIN INSTALLATION OF CURB, GUTTER, AND PAVING.
11. COMPLETE PERMANENT STABILIZATION ON AREAS WHERE CONSTRUCTION HAS COMPLETED.
12. COMPLETE FINAL GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS.
13. OBTAIN CONCURRENCE FROM THE OWNER AND THE COUNTY THAT THE SITE HAS BEEN FULLY STABILIZED.
14. REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES.
15. STABILIZE ALL AREAS DISTURBED BY BMP REMOVAL.

CONTRACTOR MAY COMPLETE CONSTRUCTION RELATED ACTIVITIES CONCURRENTLY ONLY IF ALL PRECEDING BMPS HAVE BEEN COMPLETELY INSTALLED.

THE ACTUAL SCHEDULE FOR IMPLEMENTING POLLUTANT CONTROL MEASURES WILL BE DETERMINED BY THE PROJECT CONSTRUCTION PROGRESS AND RECORDED BY THE GENERAL CONTRACTOR ON THESE PLANS.

LEGEND

- PROPERTY / RIGHT-OF-WAY LINE
- LOD — LIMITS OF DISTURBANCE
- SF — TEMPORARY SILT FENCE
- PROPOSED STORMWATER STRUCTURES
- PROPOSED STORMWATER PIPES
- EXISTING STORMWATER STRUCTURES
- D — EXISTING STORMWATER PIPES
- IP# — PROPOSED TYPE OF INLET PROTECTION (REFER TO SWPPP DETAILS SHEET)

DISTURBED AREA
21424.65 SF
(0.49 ± AC)

N

0 20' 40'

GRAPHIC SCALE
1" = 20'

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EROSION CONTROL PLAN
DUTCH BROS COFFEE
207 S. GOLDENROD RD. & HWY. 408
ORLANDO, FL 32807
ORANGE COUNTY
CITY OF ORLANDO

ANDREW J. PETERSEN LICENSE No. 75493 STATE OF FLORIDA PROFESSIONAL ENGINEER

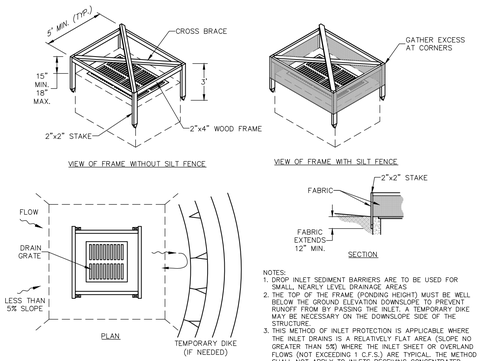
ANDREW J. PETERSEN
LICENSE NO. 75493

PLAN STATUS	
DATE	DESCRIPTION
—	—

DESIGN	DRAWN	CHKD

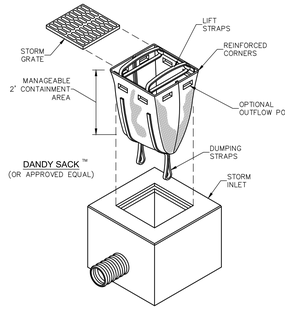
SCALE: AS SHOWN
JOB No. 011291-01-001
DATE: August, 2023
FILE: 011291-D-CP-001-ECP
SHEET C3.0

CAD file name: V:\011291 - ADS\011291-01-001 (ENG) - Dutch Bros - Orlando, FL\Engineering\Engineering Plans\011291-D-CP-001-ECP.dwg, SWEBBER 8/14/2023



NOTES:
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS
2. THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BY PASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.
3. THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS IS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVERLAND FLOWS (NOT EXCEEDING 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

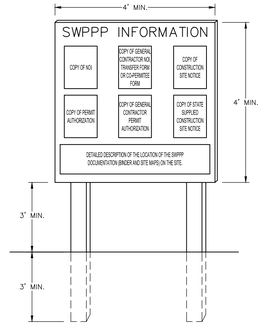
SILT FENCE INLET PROTECTION (IP 6)
N.T.S



INLET INSERT (IP 10)
N.T.S

LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC $^{-1}$
MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC $^{-1}$

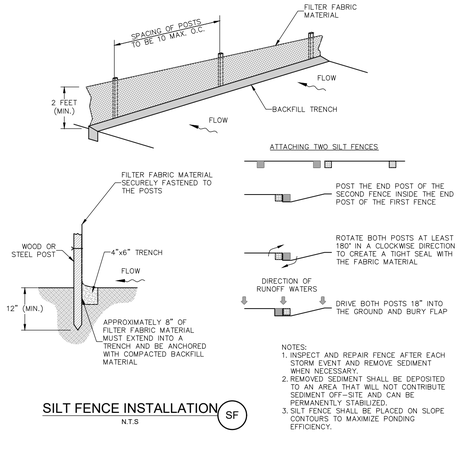
NOTES:
1. FOR TEMPORARY USE TO CAPTURE LARGER DIAMETER SEDIMENTS. NOT TO BE UTILIZED AS THE ONLY SEDIMENT CONTAINMENT SYSTEM
2. GEOTEXTILE WILL BE A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEED REQUIREMENTS IN THE SPECIFICATIONS TABLE.
3. AN OIL ADSORBENT PAD OR PILLOW CAN BE PURCHASED WHEN OIL SPILLS ARE A CONCERN.
4. INSPECT PER REGULATORY REQUIREMENTS.



NOTES:
1. "SWPPP INFORMATION" MUST BE DISPLAYED PROMINENTLY ACROSS THE TOP OF THE SIGN, AS SHOWN IN THE DETAIL.
2. SIGN TO BE CONSTRUCTED OF A RIGID MATERIAL, SUCH AS PLYWOOD OR OUTDOOR SIGN BOARD. SIGN MUST BE CONSTRUCTED IN A MANNER TO PROTECT DOCUMENTS FROM DAMAGE DUE TO WEATHER (WIND, SUN, MOISTURE, ETC.).
3. THE SWPPP INFORMATION SIGN MUST BE LOCATED NEAR THE ENTRANCE/EXIT OF THE SITE, SUCH THAT IT IS ACCESSIBLE/VIEWABLE BY THE GENERAL PUBLIC, BUT NOT OBSTRUCTING VIEWS AS TO CAUSE A SAFETY HAZARD.
4. ALL POSTED DOCUMENTS MUST BE MAINTAINED IN A CLEARLY READABLE CONDITION AT ALL TIMES THROUGHOUT CONSTRUCTION AND UNTIL THE NOTICE-OF-TERMINATION (NOT) IS FILED FOR THE PERMIT.
5. CONTRACTOR SHALL POST OTHER STORM WATER AND/OR EROSION AND SEDIMENT CONTROL RELATED PERMITS ON THE SIGN AS REQUIRED BY THE LOCAL AGENCY.
6. SIGN SHALL BE LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY AND EASEMENTS UNLESS APPROVED BY THE GOVERNING AGENCY.
7. CONTRACTOR IS RESPONSIBLE FOR ENSURING STABILITY OF THIS SWPPP INFORMATION SIGN.

SWPPP INFORMATION SIGN (SS)
N.T.S

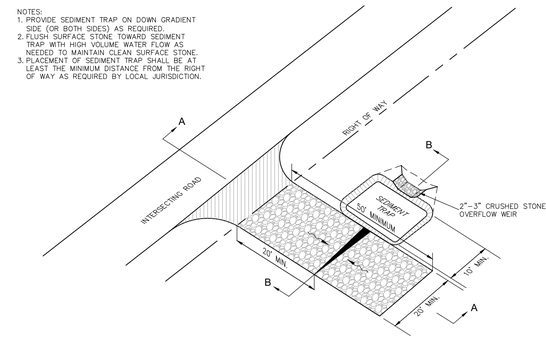
CURB INLET SEDIMENT CONTROL (IP 2)
N.T.S



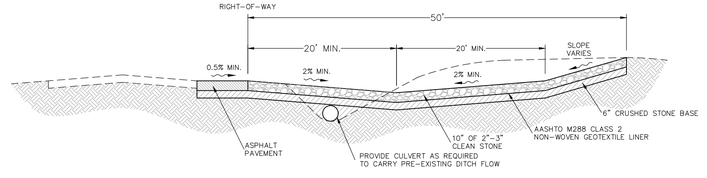
NOTES:
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

SILT FENCE INSTALLATION (SF)
N.T.S

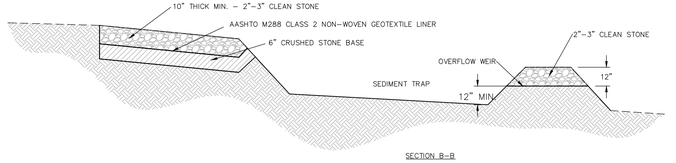
NOTES:
1. PROVIDE SEDIMENT TRAP ON DOWN GRADIENT SIDE (OR BOTH SIDES) AS REQUIRED.
2. FLUSH SURFACE STONE TOWARD SEDIMENT TRAP WITH HIGH VOLUME WATER FLOW AS NEEDED TO MAINTAIN CLEAN SURFACE STONE.
3. PLACEMENT OF SEDIMENT TRAP SHALL BE AT LEAST THE MINIMUM DISTANCE FROM THE RIGHT OF WAY AS REQUIRED BY LOCAL JURISDICTION.



VIEW



SECTION A-A



SECTION B-B

CONSTRUCTION EXIT (CE)
N.T.S

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CAD file name: V:\011291 - ADS\011291-01-001 (ENG) - Dutch Bros - Orlando, FL\Engineering\Engineering Plans\011291-D-CP-001-ECD.dwg, SWEBBER 8/4/2023

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EROSION CONTROL DETAILS
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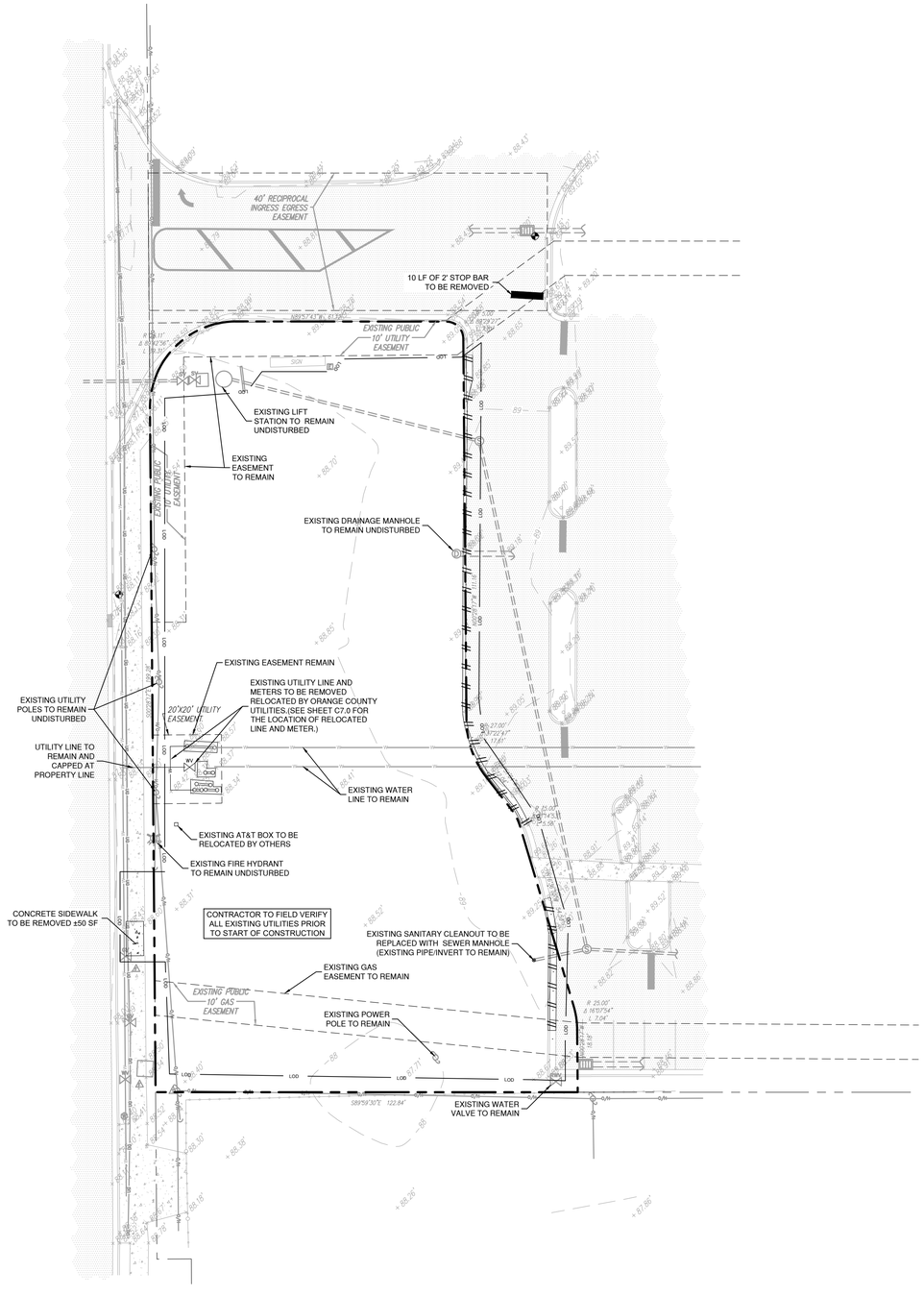
ORLANDO, FL 32807
ORANGE COUNTY
CITY OF ORLANDO

ANDREW J. PETERSEN LICENSE No. 75493 STATE OF FLORIDA PROFESSIONAL ENGINEER

ANDREW J. PETERSEN
LICENSE NO. 75493

PLAN STATUS	
DATE	DESCRIPTION
—	—
DESIGN	DRAWN — CHKD
SCALE:	AS SHOWN
JOB No.	011291-01-001
DATE:	August, 2023
FILE:	011291-D-CP-001-ECD
SHEET	C3.0



DEMOLITION NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) OF ALL MATERIALS, SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SERVICES TO ANY NECESSARY UTILITIES DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
5. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITIES.
6. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK.
7. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN THE ANY ROAD RIGHT OF WAY DURING CONSTRUCTION.
8. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., (AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES) AS APPROVED BY CONSTRUCTION MANAGER.
9. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
10. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
11. CONTRACTOR MAY LIMIT SAW-CUT & PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IT'S REMOVAL AND REPAIR.
12. THE CONTRACTOR SHALL COORDINATE WATER MAIN WORK WITH THE FIRE DEPT. AND THE CITY/COUNTY UTILITY DEPARTMENT TO PLAN PROPOSED IMPROVEMENTS AND TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO THE STORE AND SITE THROUGHOUT THIS SPECIFIC WORK AND THROUGH ALL PHASES OF CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR ARRANGING/PROVIDING ANY REQUIRED WATER MAIN SHUT OFFS WITH THE CITY/COUNTY DURING CONSTRUCTION. ANY COSTS ASSOCIATED WITH WATER MAIN SHUT OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION WILL BE PROVIDED.
13. DAMAGE TO ALL EXISTING FACILITIES AND IMPROVEMENTS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
14. FOR ALL ITEMS NOTED TO BE REMOVED, REMOVE NOT ONLY THE ABOVE GROUND ELEMENTS, BUT ALSO REMOVE ALL UNDERGROUND ELEMENTS AS WELL INCLUDING, BUT NOT LIMITED TO; FOUNDATIONS, GRAVEL FILLS, TREE ROOTS, PIPES, TANKS, ETC.
15. BACKFILL ALL EXCAVATIONS RESULTING FROM THE DEMOLITION WORK MEETING THE REQUIREMENTS FOR FILL OUTLINED IN THE GEOTECHNICAL INVESTIGATION REPORT FOR THIS SITE.
16. ASBESTOS AND ANY OTHER HAZARDOUS MATERIAL SHALL BE PROPERLY PERMITTED AND REMOVED BY THE CONTRACTOR. CONTRACTOR SHALL SECURE ALL PERMITS FOR DEMOLITION AND REMOVAL OF MATERIALS FROM THE SITE.
17. EXISTING PERIMETER TREES & LANDSCAPING TO REMAIN WHEREVER POSSIBLE.
18. REMOVAL OF EXISTING STRIPING SHALL BE ACCOMPLISHED USING THE "HYDRO-BLAST" METHOD. IF THIS PROCESS DAMAGES/SCARS PAVEMENT, THEN THE PAVEMENT SHALL BE MILLED AND RESURFACED PER FDOT STANDARDS.
19. EXISTING PAVED SHOULDER SHALL BE REMOVED FULL DEPTH PRIOR TO WIDENING OF THE ROADWAY.
20. ALL CURB AND GUTTER AND SIDEWALK WILL BE REMOVED AND REPLACED JOINT TO JOINT.
21. TEMPORARILY STABILIZE SIDEWALK AND OPEN TO FOOT TRAFFIC AT THE END OF THE WORK DAY. PERMANENT REPAIR WITH IN 7 DAYS.
22. ALL DISTURBED AREA WITH IN THE DEPARTMENT OF TRANSPORTATION RIGHT OF WAY WILL BE RESTORED TO ORIGINAL OR BETTER CONDITION BY GRADING AND SODDING THE AREA DISTURBED. (BERMUDA IN RURAL, CENTIPEDE IN UTILITY STRIPS)
23. BURNING OF MATERIAL AND/OR DEBRIS IS PROHIBITED WITHIN FDOT RIGHT OF WAY.
24. ALL LANES MUST BE OPENED FOR TRAFFIC DURING EVACUATIONS NOTICE OF A HURRICANE OR OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OR THE EVACUATION OR EVENT.
25. CONTRACTOR SHALL COORDINATE WITH THE CITY TO REMOVE EXISTING METERS
26. THE CONTRACTOR TO RE-FIELD VERIFY ALL UTILITY LOCATIONS AND SIZES PRIOR TO CONSTRUCTION.

NOTES

1N EXISTING TO BE REMOVED
2N PROTECT EXISTING UTILITIES TO REMAIN
3N SAWCUT LINE
4N EXISTING TO REMAIN
5N EXISTING TO BE MODIFIED

LEGEND

PROPERTY / RIGHT-OF-WAY LINE
LOD LIMITS OF DISTURBANCE
EXISTING CURB TO BE REMOVED
EXISTING ASPHALT PAVEMENT TO BE REMOVED

DISTURBED AREA
20,787 SF
(0.47 ± AC)

N
0 20' 40'
GRAPHIC SCALE
1" = 20'

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DEMOLITION PLAN
DUTCH BROS COFFEE
207 S. GOLDENROD RD. & HWY. 408
ORLANDO, FL 32807

ORANGE COUNTY
CITY OF ORLANDO

ANDREW J. PETERSEN LICENSE No. 75493 STATE OF FLORIDA PROFESSIONAL ENGINEER

ANDREW J. PETERSEN
LICENSE NO. 75493

PLAN STATUS

DATE	DESCRIPTION
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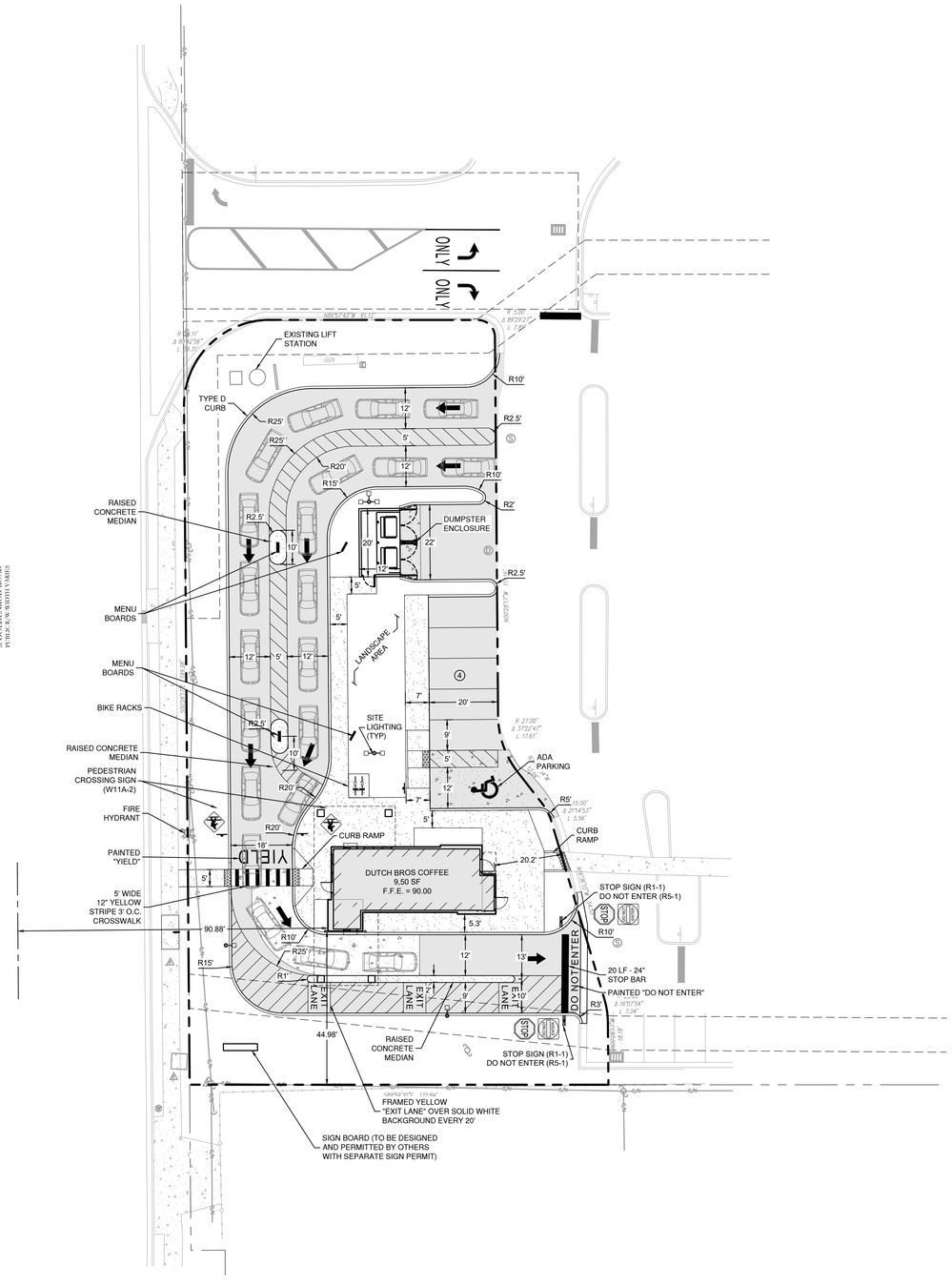
SHEET C2.0



NOTES

1. REFER TO TOPOGRAPHIC SURVEY FOR ADDITIONAL INFORMATION AND EXISTING SYMBOL LEGEND.
2. REFER TO ARCHITECTURAL PLANS FOR BUILDING INFORMATION.
3. IN GENERAL, ITEMS SHOWN AS BOLD LINEWORK REPRESENT PROPOSED FEATURES TO BE CONSTRUCTED AS PART OF THIS PROJECT, UNLESS NOTED OTHERWISE. SIMILARLY, SHADED LINEWORK TYPICALLY REPRESENTS EXISTING FEATURES OR ITEMS SHOWN FOR INFORMATIONAL PURPOSES ONLY.
4. UNLESS NOTED OTHERWISE, PROPOSED DIMENSIONS ARE SHOWN AT THE CENTERLINE OF ITEMS AND TO THE STRUCTURE FACE OR FLOWLINE OF CURB.
5. CONTRACTOR IS RESPONSIBLE FOR CORRECT HORIZONTAL AND VERTICAL ALIGNMENT OF ALL TIES BETWEEN PROPOSED AND EXISTING IMPROVEMENTS.
6. PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST MUTCD MANUAL AND FDOT DESIGN STANDARDS.
7. ALL TRAFFIC CONTROL SIGNS SHALL BE REFLECTIVE PER THE LATEST MUTCD MANUAL.
8. SAFE VEHICULAR AND PEDESTRIAN TRAFFIC MUST BE MAINTAINED AT ALL TIMES.
9. DAMAGED SIDEWALK RESULTING FROM CONSTRUCTION ACTIVITY WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE REMOVED AND REPLACED. SIDEWALKS THAT ARE REMOVED MUST BE RESTORED WITHIN THREE (3) DAYS.
10. ALL AREAS DISTURBED WITHIN THE PUBLIC RIGHT-OF-WAY MUST BE SODDED.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL CONSTRUCTION AND STOCKPILED VEGETATIVE DEBRIS AND FILL FROM THE SITE IN THE EVENT THE CONSTRUCTION SITE IS ABANDONED PRIOR TO PROJECT COMPLETION.
12. CONTRACTOR SHALL HAVE ONE SIGNED COPY OF THE APPROVED PLANS AND THE APPROPRIATE STANDARDS AND SPECIFICATIONS ALONG WITH A COPY OF ANY PERMITS AND AGREEMENTS NEEDED FOR THE JOB ON-SITE AT ALL TIMES.
13. CONTRACTOR SHALL MEET OR EXCEED ALL SITE WORK SPECIFICATIONS AND APPLICABLE STATE AND FEDERAL REGULATIONS FOR ALL MATERIALS AND CONSTRUCTION.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY DURING CONSTRUCTION.
15. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS IS ENCOUNTERED.
16. NO REVISION SHALL BE MADE TO THESE PLANS WITH OUT THE APPROVAL OF THE ENGINEER OF RECORD.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
18. ANY REFERENCE TO PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
19. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
20. CONTRACTOR SHALL VERIFY PROPERTY LINES, BUILDING DIMENSIONS, AND ALL OTHER SITE CONDITIONS PRIOR TO CONSTRUCTION. ANY SIGNIFICANT VARIATIONS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
21. SIGNS ON THE SITE PLAN ARE SHOWN FOR REFERENCE ONLY AND APPROVAL OF THE SITE PLAN DOES NOT APPROVE SIGN. SIGN PERMITTING AND REVIEW IS A SEPARATE PROCESS THROUGH THE BUILDING SAFETY DEPARTMENT.
22. ALL AFFECTED SIDEWALKS, RAMPS, CURB CUTS, AND CROSS WALKS, WILL BE BUILD AND INSPECTED TO MEET CURRENT ADA REQUIREMENTS.
23. ALL CONSTRUCTION IN THE FDOT ROW SHALL CONFORM TO THE LATEST EDITIONS OF THE FDOT DESIGN STANDARDS (INDICES), THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE FDOT UTILITY ACCOMMODATION MANUAL.
24. ALL LIGHTING SHALL BE THE RESPONSIBILITY OF THE DEVELOPER.
25. PROPOSED DEVELOPMENT IS A COFFEE SHOP WITH NO INDOOR SEATING.

SITE DATA

PARCEL AREA	0.52 AC (22,519 SF)
PARCEL IDENTIFICATION NUMBER	26-22-30-0000-00-137
EXISTING ADDRESS	NEC GOLDENROD RD. & HWY. 408
LOCAL JURISDICTION	ORANGE COUNTY
ZONING DESIGNATION	C-1
FEMA FLOOD ZONE DESIGNATION	X
EXISTING USE	VACANT
PROPOSED USE	COFFEE SHOP WITH NO INDOOR/OUTDOOR SEATING
PROPOSED BUILDING AREA	950 SF
FLOOR AREA RATIO (LOT COVERAGE)	0.0422
IMPERVIOUS AREA	14,230 SF
IMPERVIOUS SURFACE %	63.2%
PERVIOUS AREA	8,289 SF
OPEN SPACE %	36.8%
BUILDING HEIGHT	24 FT
PARKING	
TOTAL STANDARD PARKING REQUIRED / PROPOSED	- / 3
TOTAL ADA PARKING REQUIRED / PROPOSED	- / 1
PARKING STALL DIMENSIONS / ADA PAKING (L x W)	20 FT x 9 FT / 20 FT x 12 FT

LEGEND

- PROPERTY / RIGHT-OF-WAY LINE
- EXISTING EASEMENTS
- ACCESSIBLE PARKING SPACE
- NUMBER OF CONTIGUOUS PARKING SPACES
- STREET SIGN LOCATION (SEE TABLE BELOW FOR DIM.)
- 36" X 36" R1-1 STOP SIGN AND ORIENTATION
- 36" X 36" R5-1 DO NOT ENTER SIGN AND ORIENTATION
- 24" X 24" W11A-2 PEDESTRIAN CROSSING
- PROPOSED BUILDING FOOTPRINT
- CONCRETE SIDEWALK
- STANDARD DUTY ASPHALT PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- EXISTING ASPHALT PAVEMENT
- EXISTING CONCRETE PAVEMENT

N

0 20' 40'

GRAPHIC SCALE
1" = 20'

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SITE PLAN
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SHEET C5.0

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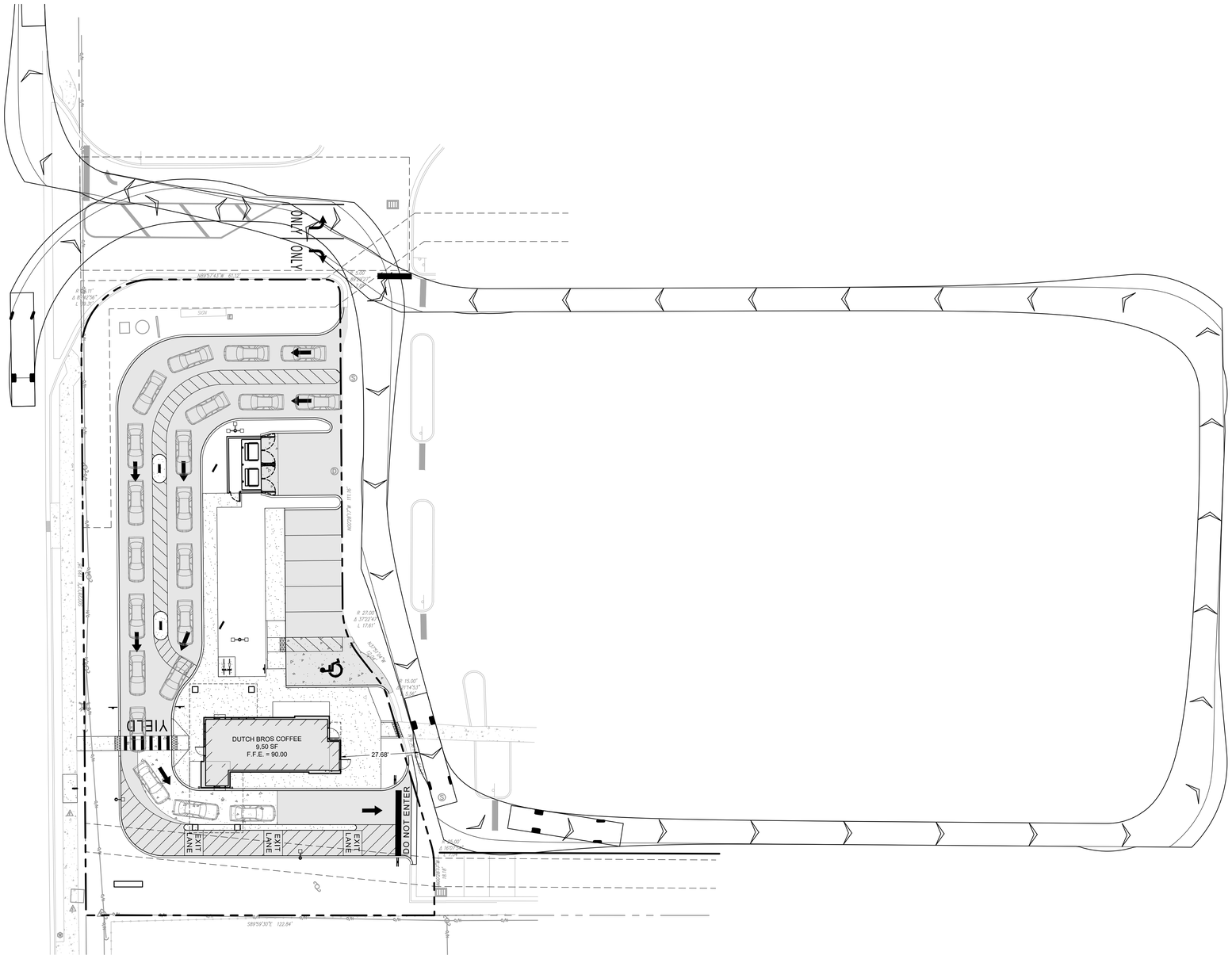
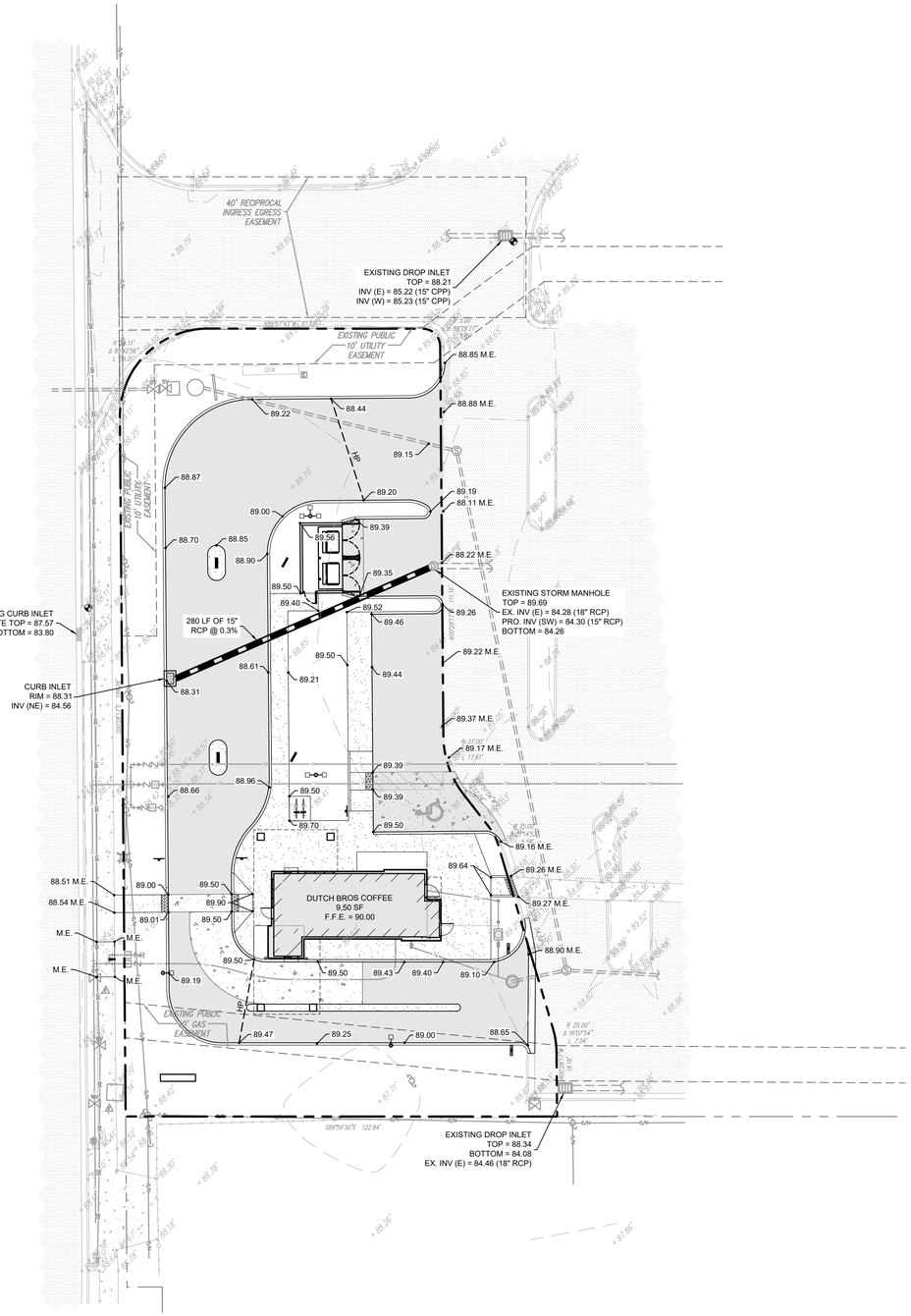

S GOLDENROD ROAD
PUBLIC ACCESS VARIES
ONLY
ONLY
YIELD
DUTCH BROS COFFEE
9,50 SF
F.F.E. = 90.00
27.68'
DO NOT ENTER
EXIT LANE
EXIT LANE
EXIT LANE
S89°59'30"E 122.84'
N00°28'17"W 111.16'
R 27.00'
Δ 372°49"
L 17.61'
R 15.00'
Δ 174°53"
L 45.78'
S89°57'43"W 61.19'
R 25.00'
Δ 87°42'56"
L 38.27'
R 100.00'
Δ 2°00'11"
L 3.49'
R 100.00'
Δ 2°00'11"
L 3.49'
R 100.00'
Δ 2°00'11"
L 3.49

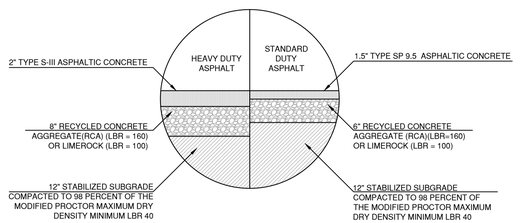


NOTES

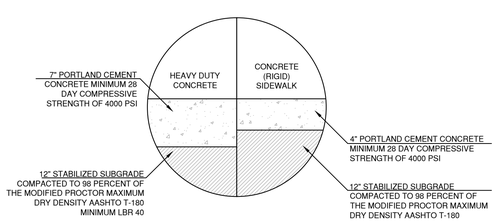
1. ALL ELEVATIONS SHOWN REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
2. REFER TO TOPOGRAPHIC SURVEY FOR ADDITIONAL INFORMATION AND EXISTING SYMBOL LEGEND.
3. IN GENERAL, ITEMS SHOWN AS BOLD LINEWORK REPRESENT PROPOSED FEATURES TO BE CONSTRUCTED AS PART OF THIS PROJECT, UNLESS NOTED OTHERWISE. SIMILARLY, SHADED LINEWORK TYPICALLY REPRESENTS EXISTING FEATURES OR ITEMS SHOWN FOR INFORMATIONAL PURPOSES ONLY.
4. GENERAL CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAY AND SHALL LOCATE ALL UTILITIES PRIOR TO GRADING COMMENCEMENT.
5. TREE BARRICADE AT DRIP LINE OF TREE SHALL BE PROTECTED UNTIL CONSTRUCTION ACTIVITY IN VICINITY REQUIRES REMOVAL.
6. ALL TREE ROOTS EXISTING WITHIN APPROVED IMPROVEMENT AREAS AND ORIGINATING FROM A PROTECTED TREE, SHALL BE SEVERED CLEAN AT THE LIMITS OF THE PRESERVED AREA WHERE INDICATED ON THE APPROVED PLANS. ALL PRUNING SHALL BE PERFORMED USING A DOSKO ROOT CUTTER OR EQUIVALENT.
7. SITE WORK SHALL NOT PROCEED UNTIL APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED.
8. ALL AREAS DISTURBED WITHIN THE PUBLIC RIGHT-OF-WAY MUST BE SODDED.
9. GENERAL CONTRACTOR SHALL SOD AT THE BACK OF ALL CURBS, PAVEMENT EDGES, SWALES AND DETENTION AREAS.
10. GENERAL CONTRACTOR SHALL PAVE INVERTS IN DRAINAGE STRUCTURES TO PREVENT IMPOUNDED WATER.
11. ALL CONCRETE USED FOR SIDEWALKS, ROADWAY AND DRAINAGE STRUCTURES MUST MEET TXDOT STANDARDS.
12. THE CONTRACTOR SHALL LEGALLY DISPOSE OF ALL ITEMS DESIGNATED FOR REMOVAL IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS. SUCH MATERIAL, WHETHER HAZARDOUS OR NON-HAZARDOUS, LAND-CLEARING, CONSTRUCTION OR DEMOLITION DEBRIS SHALL BE PROPERLY HANDLED AND TRANSPORTED TO AN APPROPRIATE OFF-SITE FACILITY.
13. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES SHOWN ON THE PLANS BY POT-HOLING THE LINES. THE CONTRACTOR SHALL HAVE THE LINES SURVEYED, INCLUDING HORIZONTAL AND VERTICAL LOCATION, AND THE SURVEYED POINTS SENT TO THE PROJECT ENGINEER TO DETERMINE IF ANY UTILITY CONFLICTS WILL AFFECT THE CURRENT STORM DRAINAGE DESIGN.
14. SLOPES WITHIN THE ACCESSIBLE PARKING AREA AND ACCESS PATHWAY SHALL NOT EXCEED 2.0%.
15. ALL PROPOSED SPOT ELEVATIONS ARE PAVEMENT GRADES, UNLESS OTHERWISE NOTES.
16. TOP OF CURBS ARE ASSUMED TO BE 0.5' ABOVE PAVEMENT GRADES UNLESS NOTED ON PLAN.
17. ALL STORM DRAIN INLETS CONSTRUCTED AS PART OF NEW DEVELOPMENT PROJECT IN ORANGE COUNTY SHALL HAVE METAL MEDALLION INLETS MARKERS INSTALLED. TEXT ON MARKER SHALL BE EVENLY SPACED AND READ "NO DUMPING, ON RAIN IN THE DRAIN". MARKERS MUST BE COMMERCIAL GRADE STAINLESS STEAL, ALUMINUM, BRASS OR BRONZE AND EITHER STAMPED FRM SHEET METAL OR CAST. METAL MARKER COLOR MUST BE NON REFLECTIVE BLUE OR GREEN. AQUATIC CREATURES OR SYMBOLS SHOWN ON MARKER SHALL BE CONSISTENT THROUGHOUT THE SUBDIVISION. MARKERS MUST BE AFFIXED TO A CLEAN, PREPARED SURFACE WITH ADHESIVES, FASTENERS, OR HEAT AS RECOMMENDED BY THE MANUFACTURER. MARKERS SHALL BE ALLIGNED WITH THE CENTER OF THE DRAINAGE INLETS AT THE TOP OF THE CURB. LETTERING MUST BE BETWEEN 0.4-0.5 INCHES AND THE TOTAL DIAMETER OF THE MARKER BETWEEN 3.75-4.25 INCHES.
18. ILLICIT DISCHARGE ARE PROHIBITED INTO WATER OF THE COUNTY OR INTO THE STORM SEWER SYSTEM: DISCHARGE ONTO GROUND SURFACES IS PROHIBITED THAT MAY CAUSE WATER POLLUTION; AND THE STORMWATER CONTROLS ARE REQUIRED TO REDUCE POLLUTANTS IN REFERENCE OC CODE CHAPTER 15. ENVIRONMENTAL CONTROL, ARTICLE IV WATER QUALITY MANAGEMENT ORDINANCES, SECTION 15-115 PROHIBITIONS

LEGEND

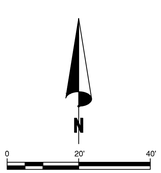
- PROPERTY / RIGHT-OF WAY LINE
- 2.14% — FLOW DIRECTION AND SLOPE
- HP — GRADING HIGH POINT
- FL — GRADING FLOW LINE
- 52.23 — PROPOSED SPOT GRADE
- EXISTING DRAINAGE STRUCTURES
- EXISTING DRAINAGE PIPES
- PROPOSED DRAINAGE STRUCTURES
- PROPOSED DRAINAGE PIPES
- PROPOSED BUILDING FOOTPRINT
- CONCRETE SIDEWALK
- STANDARD DUTY CONCRETE PAVEMENT



ASPHALT (FLEXIBLE) PAVEMENT
NTS



CONCRETE (RIGID) SIDEWALK
NTS



GRAPHIC SCALE
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PAVING, GRADING & DRAINAGE PLAN

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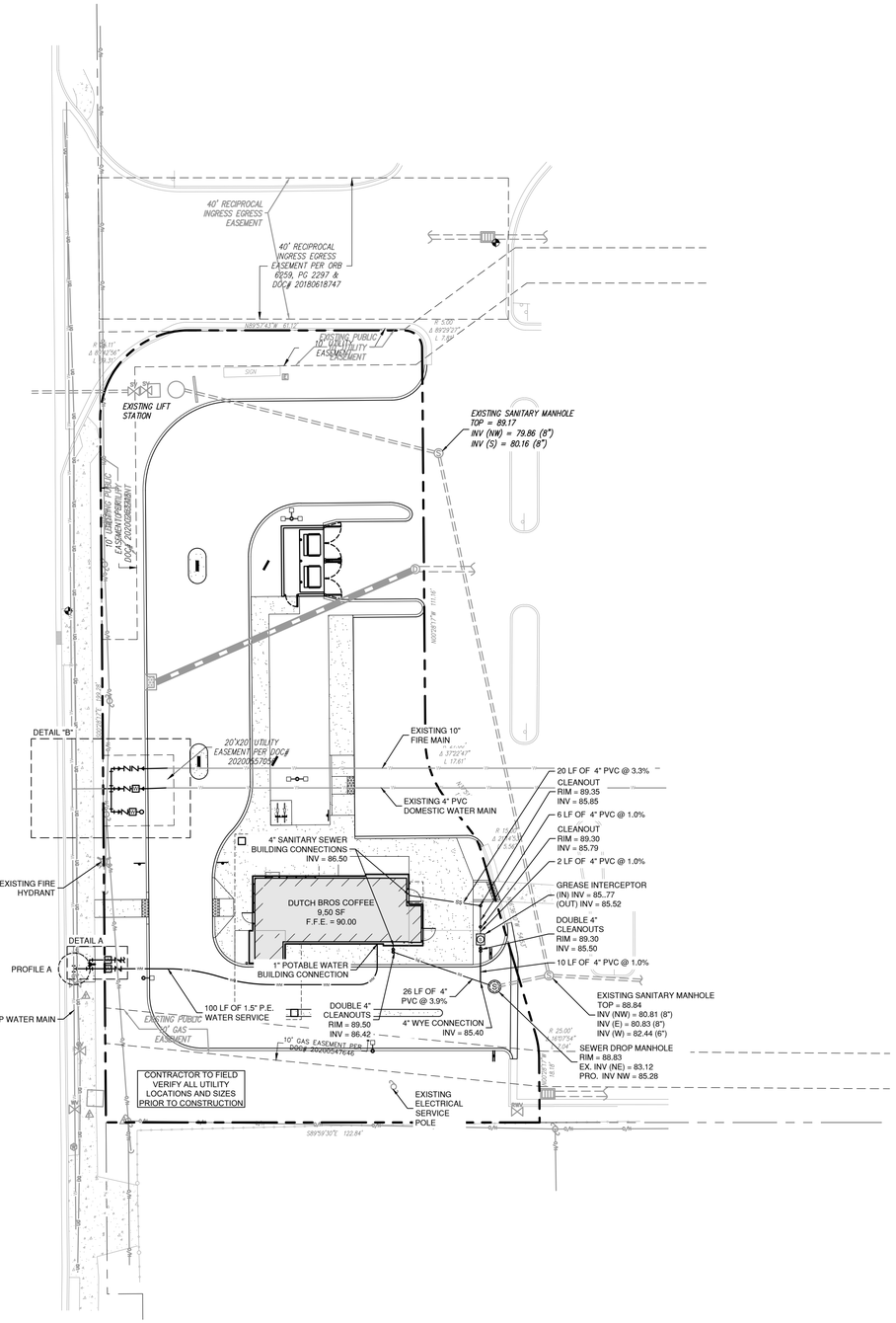

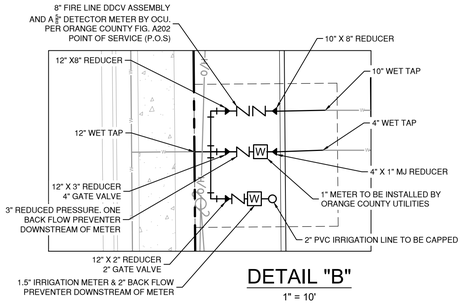

DETAIL "B"
1" = 10'

NOTES

1. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND IS RESPONSIBLE TO REPAIR ANY DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION AT NO COST TO THE OWNER.
2. ALL UTILITIES ARE SHOWN FROM INFORMATION GATHERED AND SHOULD NOT BE USED AS EXACT. CONTRACTOR SHALL VERIFY EXACT DEPTHS AND LOCATIONS PRIOR TO UTILITY INSTALLATION AND NOTIFY THE ENGINEER OF RECORD IF THERE ARE ANY DEVIATIONS ROM WHAT IS SHOWN ON PLANS.
3. CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANY FOR INSTALLATION AND SPECIFICATION REQUIREMENTS.
4. ALL PIPE MATERIALS SHALL COMPLY WITH LOCAL REGULATIONS.
5. ALL TRENCHING AND BEDDING SHALL BE PER THE UTILITY TRENCH AND BEDDING DETAIL.
6. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR ALL BUILDING UTILITY TIE INS.
7. THE CONTRACTOR IS TO FIELD VERIFY THE EXACT LOCATIONS AND DEPTHS OF UTILITY LINES.
8. ALL CERTIFICATES AND SHOP DRAWINGS MUST BE SUBMITTED, REVIEWED, AND APPROVED PRIOR TO STARTING CONSTRUCTION.
9. CONTRACTOR TO PROVIDE AS-BUILTS OF ALL IMPROVEMENTS TO THE SITE, PERFORMED BY A LICENSED SURVEYOR IN THE STATE OF FLORIDA. AS-BUILTS TO INCLUDE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UNDERGROUND UTILITIES INCLUDING, BUT NOT LIMITED TO, PIPES, FITTINGS, STRUCTURES, AND OTHER APPURTENANCES. ELEVATIONS OF PIPES AT CROSSING POINTS MUST BE SUFFICIENT TO IDENTIFY MINIMUM SEPARATION OF UTILITIES. IN ADDITION AS-BUILTS MUST MEET ALL LOCAL AND JURISDICTIONAL REQUIREMENTS FOR CERTIFICATION OF CONSTRUCT.
10. UNDERGROUND UTILITIES TO BE FIELD VERIFIED IN RIGHT-OF-WAY WORK WITH EXISTING UTILITIES.
11. MAINTAIN A MINIMUM OF 3 FEET OF COVER OVER ALL PROPOSED WASTEWATER.
12. ALL EXISTING UTILITIES HAVE BEEN FIELD VERIFIED AT ALL POINTS OF CONNECTION TO, AND AT ALL AREAS OF CONFLICT WITH OCU MAINS.
13. ALL UTILITIES (INCLUDING PUMP STATION IF APPLICABLE) LOCATED OUTSIDE PUBLIC RIGHT-OF-WAY AND PUBLIC EASEMENTS SHALL BE PRIVATLY OWNED AND MAINTAINED.
14. CONTACT YOUR DESIGNATED OCU INSPECTOR AT THE CONSTRUCTION DIVISION AT 407-254-9798 TO SCHEDULE A MEETING PRIOR TO INITIATING CONSTRUCTION TO DISCUSS INSPECTION REQUIREMENTS.
15. THE CONTRACTOR TO RE-FIELD VERIFY ALL UTILITY LOCATIONS AND SIZES PRIOR TO CONSTRUCTION.
16. 8289 SF OF OPEN SPACE TO BE IRRIGATED
17. 1500 NEEDED FIRE FLOW AT 20 PSI IN ACCORDANCE WITH NFPA 1-TABLE 18.4.5.2.1

ORANGE COUNTY UTILITIES – ASSET TABLE

ID NO.	SHEET NO.	NORTHING	EASTING	TYPE	CONSTRUCTION METHOD	MATERIAL	PRESSURE CLASS	MANUFACTURER	COMMENTS
WM-1	C7.0			WATER MAIN	OPEN CUT	PE	C900		
WM-2	C7.0			WATER MAIN	OPEN CUT	PE	C900		
WM-3	C7.0			WATER MAIN	OPEN CUT	PE	C900		
WM-4	C7.0			WATER MAIN	OPEN CUT	PE	C900		
W-1	C7.0			10"X1" TAPPING SLEEVE		PE	C900		
W-2	C7.0			1"X1"Z3/4" TEE		PE	C900		
W-3	C7.0			3/4" 90 BEND		PE	C900		
M-1	C7.0			1" WATER METER			C900		
M-2	C7.0			3/4" WATER METER			C900		

DETAIL "A"
1" = 5'

LEGEND

- PROPERTY LINE
- WM — POTABLE WATER LINE
- SS — SANITARY SEWER LINE
- SANITARY SEWER CLEAN OUT
- H/O — EXISTING OVERHEAD UTILITY LINE
- EXISTING UTILITY POLE

PROFILE "A"
1" = 10'

GRAPHIC SCALE
1" = 20'

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UTILITY PLAN
DUTCH BROS COFFEE
207 S. GOLDENROD RD. & HWY. 408
ORLANDO, FL 32807

ORANGE COUNTY
CITY OF ORLANDO

ANDREW J. PETERSEN LICENSE No. 75493 STATE OF FLORIDA PROFESSIONAL ENGINEER

ANDREW J. PETERSEN
LICENSE NO. 75493

PLAN STATUS

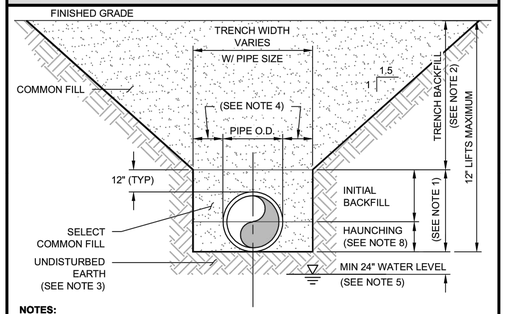
DATE	DESCRIPTION

DESIGN	DRAWN	CHKD
–	–	–

SCALE: AS SHOWN
JOB No. 011291-01-001
DATE: August, 2023
FILE: 011291-D-CP-001-UTP

SHEET C7.0

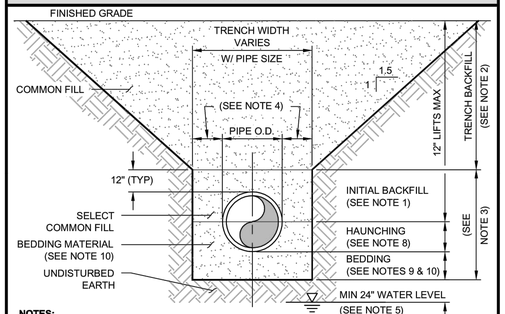
BEDDING & TRENCHING - TYPE A



NOTES:

1. INITIAL BACKFILL AND HAUNCHING: SELECT COMMON FILL COMPACTED TO MIN 95% (98% UNDER PAVEMENT OR FUTURE PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO MIN 95% (98% UNDER PAVEMENT OR FUTURE PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL IN ACCORDANCE WITH "TYPE B" BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY UTILITIES.
4. 15-IN MAX. (12-IN MIN.) FOR PIPE DIAMETER LESS THAN 24-IN AND 24-IN MAX (12-IN MIN) FOR PIPE DIAMETER 24-IN AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION. DEWATERING AS REQUIRED.
6. ALL PIPE SHALL BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN ORANGE COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.
8. FOR GRAVITY SEWER, THE FIRST LIFT SHALL BE PLACED TO THE SPRING LINE OF THE PIPE AND COMPACTED BY HAND TAMP.
9. CONTRACTOR SHALL USE BEDDING AND TRENCHING - TYPE B DETAIL FOR OVER EXCAVATION AND WHEN UNSUITABLE MATERIALS ARE ENCOUNTERED IN THE EXCAVATION.

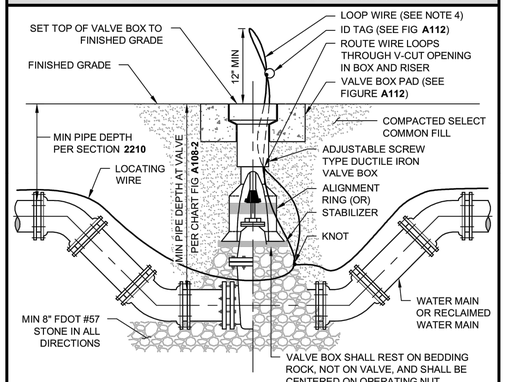
BEDDING & TRENCHING - TYPE B



NOTES:

1. INITIAL BACKFILL: SELECT COMMON FILL COMPACTED TO MIN 95% (98% UNDER PAVEMENT OR FUTURE PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO MIN 95% (98% UNDER PAVEMENT OR FUTURE PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL IN ACCORDANCE WITH "TYPE B" BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY UTILITIES.
4. 15-IN MAX. (12-IN MIN.) FOR PIPE DIAMETER LESS THAN 24-IN AND 24-IN MAX (12-IN MIN) FOR PIPE DIAMETER 24-IN AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION. DEWATERING AS REQUIRED.
6. ALL PIPE SHALL BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN ORANGE COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF R/W UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.
8. FOR GRAVITY SEWER, THE FIRST LIFT SHALL BE PLACED TO THE SPRING LINE OF THE PIPE AND COMPACTED BY HAND TAMP.
9. BEDDING DEPTH SHALL BE 4-IN MINIMUM FOR PIPE DIAMETER UP TO 12-IN AND 6-IN MINIMUM FOR PIPE DIAMETER 16-IN AND LARGER.
10. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF REQUIRED BEDDING MATERIAL BELOW THE PIPE. UTILITIES SHALL DETERMINE REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION IN THE FIELD.

GATE VALVE & BOX - WATER & RECLAIMED WATER MAINS



NOTES:

1. PVC PIPE OR DUCTILE IRON PIPE SHALL NOT BE USED AS VALVE BOX.
2. THE VALVE ACTUATING NUT SHALL BE EXTENDED TO BE WITHIN 3-FT OF FINISHED GRADE.
3. PROVIDE A STABILIZER OR PLASTIC DEBRIS SHIELD / ALIGNMENT RING WHICH INSTALLS BELOW THE VALVE ACTUATING NUT. THE DEVICE SHALL CENTER THE RISER VALVE BOX OVER THE ACTUATING NUT AND MINIMIZE DEBRIS.
4. LOCATING WIRE SHALL BE CONTINUOUS WITH NO SPLICES AND SHALL EXTEND 12-IN ABOVE TOP OF COLLAR. WIRE SHALL BE COLOR CODED TO MATCH THE UTILITY INSTALLED. WIRE SHALL BE COILED BACK INTO BOX AWAY FROM VALVE STEM.
5. FOR NEW CONSTRUCTION, THE VALVE BOX SHALL BE ADJUSTED TO MIDRANGE TO ALLOW FOR FUTURE BOX ADJUSTMENTS.
6. REFER TO FIGURE **A111** FOR INSTALLATIONS WHERE THE OPERATING NUT IS DEEPER THAN 36-IN BELOW FINISHED GRADE.
7. DRILL HOLE IN ID TAG AND INSTALL ON TRACING WIRE.

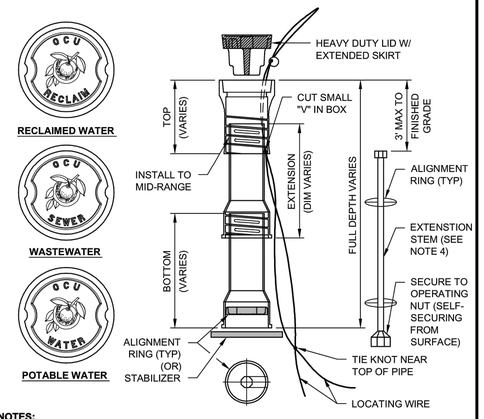
GATE VALVE & BOX - MINIMUM PIPE DEPTH AT VALVE PER MANUFACTURER

APPROVED APPENDIX D PRODUCTS VALVE SIZE (INCHES)	AMERICAN FLOW CONTROL	CLOW COMPANY	MUELLER COMPANY
	MIN COVER TO TOP OF PIPE (INCHES)	MIN COVER TO TOP OF PIPE (INCHES)	MIN COVER TO TOP OF PIPE (INCHES)
16	53	54	54
20	57	72	62
24	63	75	66
30	80	81	80
36	89	88	89
42	102	102	101
48	109	102	110
54	106		
60	122		
66	119		

NOTES:

1. MINIMUM COVER OVER PIPE IS CALCULATED BASED ON INSTALLATION OF THE GATE VALVE OPERATING NUT AT 24-IN BELOW GRADE.
2. ADDITIONAL DEPTH MAY BE REQUIRED BASED ON SITE CONDITIONS OR ROAD DESIGN.
3. REFERENCE FIGURE **A108-1** FOR TYPICAL GATE VALVE STANDARD DRAWING.

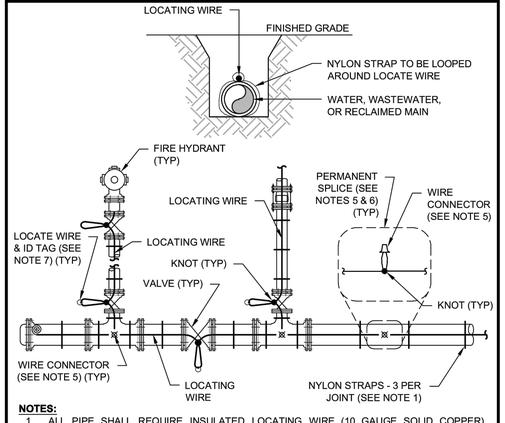
TYPICAL VALVE BOX & COVER



NOTES:

1. HEAVY DUTY VALVE BOX LIDS ARE REQUIRED FOR ALL VALVE BOXES.
2. TOP SECTION SHALL BE INSTALLED AT MID-RANGE FOR FUTURE ADJUSTMENT.
3. HEAVY DUTY VALVE BOX LID SHALL HAVE A 5-IN MIN DEPTH AND WEIGH A MINIMUM OF 22-LBS. LID SHALL HAVE POWDER COATING PAINT AT A MIN OF 3 MILL.
4. EXTENSION STEMS AND ALIGNMENT RING/WALL BRACKETS SHALL BE PROVIDED ON ALL BURIED VALVES SO THAT THE OPERATING NUT SHALL BE NO MORE THAN 36-IN BELOW FINISHED GRADE. MATERIAL SHALL BE MINIMUM 304 SST.
5. ADD ADD'L SCREW EXTENSION AS REQUIRED AFTER SCREW EXTENSION EXCEEDS 24-IN.
6. STACKING OF VALVE BOX BOTTOM SECTIONS IS NOT PERMITTED.
7. VALVE BOX SHALL REST ON BEDDING ROCK, NOT ON VALVE, AND SHALL BE CENTERED ON OPERATING NUT.

PIPE LOCATING WIRE



NOTES:

1. ALL PIPE SHALL REQUIRE INSULATED LOCATING WIRE (10 GAUGE SOLID COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE WRAPPED WITH NYLON STRAPS, LOOPED AND SECURED TO TOP CENTERLINE OF THE PIPE.
2. LOCATING WIRE SHALL BE CONTINUOUS INSIDE VALVE BOXES AND SHALL EXTEND 12-IN ABOVE TOP OF COLLAR.
3. WIRE INSULATION SHALL BE COLOR CODED FOR THE TYPE OF PIPE BEING INSTALLED.
4. WIRE SHALL BE CONTINUOUS AND CONNECTED FOR LOCATING IN ALL DIRECTIONS.
5. PERMANENT SPLICES MUST BE MADE IN THE LENGTH OF THE WIRE USING WIRE CONNECTORS SPECIFICALLY DESIGNED FOR DIRECT BURIAL, DIELECTRIC SILICONE GEL OR MOISTURE-RESISTANT GREASE FILLED.
6. AT ALL TRACING WIRE SPLICES, TEES, AND VALVE COLLARS, A KNOT IN THE WIRE SHALL BE MADE TO PREVENT THE WIRE FROM COMING APART.
7. REFER TO VALVE DETAILS FOR LOCATE WIRE UP AND IN VALVE BOX.

HORIZONTAL PIPELINE SEPARATION REQUIREMENTS

HORIZONTAL SEPARATION REQUIREMENTS (NOTES 1 & 2)

PROPOSED UTILITY		POTABLE WATER (NOTE 3)		RECLAIMED WATER MAIN (SEE NOTE 7)		WASTEWATER FORCEMAIN		SANITARY SEWER	STORM SEWER	STRUCTURAL FOUNDATION, WALLS, ETC. (SEE NOTE 8)
		4"-12"	16"-UP	4"-12"	16"-UP	4"-12"	16"-UP	ALL SIZES	ALL SIZES	ALL SIZES
POTABLE WATER (NOTE 3)	4"-12"	3'	5'	3'	5'	6'	6'	6'	3'	10'
	16"-UP	5'	5'	5'	5'	6'	6'	6'	5'	15' (NOTE 5)
RECLAIMED WATER MAIN (SEE NOTE 7)	4"-12"	3'	5'	3'	5'	3'	5'	3'	3'	10'
	16"-UP	5'	5'	5'	5'	5'	5'	5'	5'	15' (NOTE 5)
WASTEWATER FORCEMAIN	4"-12"	6'	6'	3'	5'	3'	5'	3'	3'	10'
	16"-UP	6'	6'	5'	5'	5'	5'	5'	5'	15' (NOTE 5)
SANITARY SEWER	ALL SIZES	6'	6'	3'	5'	3'	5'	3'	5'	VARIES PER DEPTH

NOTES:

1. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
2. THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. FOR PIPES INSTALLED AT GREATER DEPTHS THAN THE MINIMUM OCU DESIGN STANDARDS, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH.
3. THIS SEPARATION REQUIREMENT COMPLIES WITH THE MINIMUM FDEP SEPARATION REQUIREMENTS OUTLINED IN 62-555.314, FAC. VARIANCES FROM THE FDEP REQUIREMENTS MUST COMPLY WITH 62-555.314(5), FAC AND MUST BE APPROVED INDIVIDUALLY BY BOTH FDEP AND UTILITIES PRIOR TO INSTALLATION.
4. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURE.
5. PRESSURE MAINS 16-IN TO 24-IN MAY HAVE 10-FT SEPARATION FROM STRUCTURAL FOUNDATION, WALLS, ETC IF NEW MAINS ARE RESTRAINED FOR THE ENTIRE LENGTH.
6. REFERENCE FIGURE **A116-2** FOR VERTICAL PIPELINE SEPARATION REQUIREMENTS.
7. RECLAIMED WATER REGULATED UNDER PART II OF CHAPTER 62-610, F.A.C.
8. ADDITIONAL SEPARATION SHALL BE REQUIRED BY UTILITIES FOR CONSTRUCTION OF, INCLUDING, BUT NOT LIMITED TO: LIVE LOADS, MULTI-STORY COMMERCIAL BUILDINGS, SUPERSTRUCTURES, EMBANKMENTS, RETAINING WALLS, BRIDGES, RAILROADS, HIGH VOLTAGE TRANSMISSION MAINS, GAS MAINS, ETC.

VERTICAL PIPELINE SEPARATION REQUIREMENTS

VERTICAL SEPARATION REQUIREMENTS (NOTES 1 & 2)

PROPOSED UTILITY	POTABLE WATER (NOTE 4)	RECLAIMED WATER MAIN	WASTEWATER FORCEMAIN	SANITARY SEWER	STORM SEWER (NOTE 3)
POTABLE WATER (NOTE 4)	12"	12"	12" / 18"	12" / 18"	12" / 18"
RECLAIMED WATER MAIN	12"	12"	12"	12"	12" / 18"
WASTEWATER FORCEMAIN	12"	12"	12"	12"	12" / 18"
SANITARY SEWER	12" / 18"	12"	12"	12"	12" / 18"

NOTES:

1. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
2. THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE.
3. THE 18-IN SEPARATION REQUIREMENT APPLIES WHEN THE STORM PIPE OR SANITARY SEWER CROSSES ABOVE THE UTILITY MAIN, AND WHEN THE STORM PIPE HAS A DIAMETER EQUAL TO OR GREATER THAN 24-IN. OTHERWISE, THE REQUIRED SEPARATION IS 12-IN.
4. THIS SEPARATION REQUIREMENT COMPLIES WITH THE MINIMUM FDEP SEPARATION REQUIREMENTS OUTLINED IN 62-555.314, FAC. VARIANCES FROM THE FDEP REQUIREMENTS MUST COMPLY WITH 62-555.314(5), FAC AND MUST BE APPROVED INDIVIDUALLY BY BOTH FDEP AND UTILITIES.
5. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURE.
6. REFERENCE FIGURE **A116-1** FOR HORIZONTAL PIPELINE SEPARATION REQUIREMENTS.
7. JOINT SPACING AT CROSSING SHALL COMPLY WITH THE MINIMUM FDEP SEPARATION REQUIREMENTS OUTLINED IN 62-555.314, F.A.C.

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CITY OF ORLANDO

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LICENSE NO. 75493

PLAN STATUS		
DATE	DESCRIPTION	
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DESIGN	DRAWN	CHKD
SCALE:	AS SHOWN	
JOB No.	011291-01-001	
DATE:	August, 2023	
FILE:	011291-D-CP-001-DET	
SHEET	C8.0	

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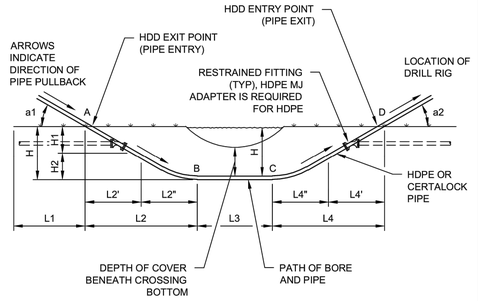
DIRECTIONAL DRILL

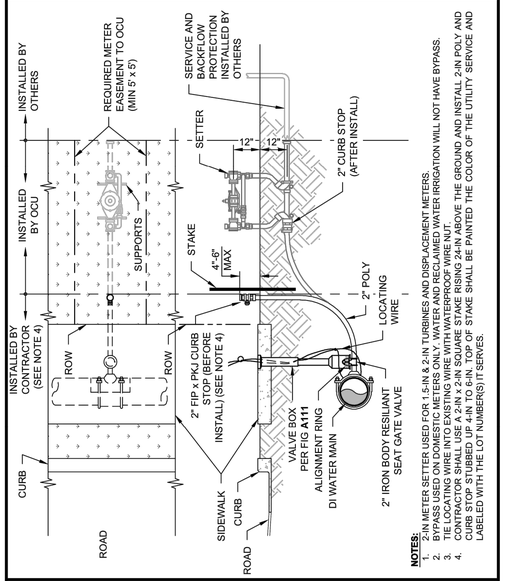


PROFILE VIEW

NOTES:

1. SHALL BE DESIGNED PER ASTM F1962-11.
2. POINTS A, B, C & D PULL FORCE ON PIPE.
3. L1 - ADDITIONAL LENGTH OF PIPE REQUIRED FOR HANDLING AND THERMAL CONTRACTION.
4. L2 - HORIZONTAL DISTANCE TO ACHIEVE DESIRED DESIGN DEPTH.
5. L3 - ADDITIONAL DISTANCE TO TRAVERSE AT DESIRED DESIGN DEPTH.
6. L4 - HORIZONTAL DISTANCE TO RISE TO SURFACE.
7. H - DEPTH OFF BORE HOLE FROM GROUND ELEVATION.
8. a1 - PIPE ENTRY ANGLE SHALL NOT EXCEED 15 DEGREES AND THE MANUFACTURERS RECOMMENDATIONS ON DEFLECTION.
9. a2 - PIPE EXIT ANGLE SHALL NOT EXCEED 12 DEGREES AND THE MANUFACTURERS RECOMMENDATIONS ON DEFLECTION.
10. MANDREL TESTING SHALL BE PERFORMED THROUGH THE ENTIRE LENGTH OF THE INSTALLED PIPE, FOR ALL PIPE 16-IN IN DIAMETER AND LARGER. THE MANDREL SIZE SHALL BE 90% OF THE INSIDE DIAMETER OF THE PIPE. MANDREL TESTING ON SMALLER PIPE MAY BE REQUIRED BY UTILITIES.
11. ISOLATION VALVES SHALL BE DESIGNED AND INSTALLED AT BOTH ENDS OF THE DIRECTIONAL DRILL.
12. ALL WORK TO BE PERFORMED WITHIN ROW OR EASEMENT.
13. ENTIRE DIRECTIONAL DRILL TO BE SHOWN IN PLAN VIEW AND PROFILE VIEW ON CONSTRUCTION PLAN.

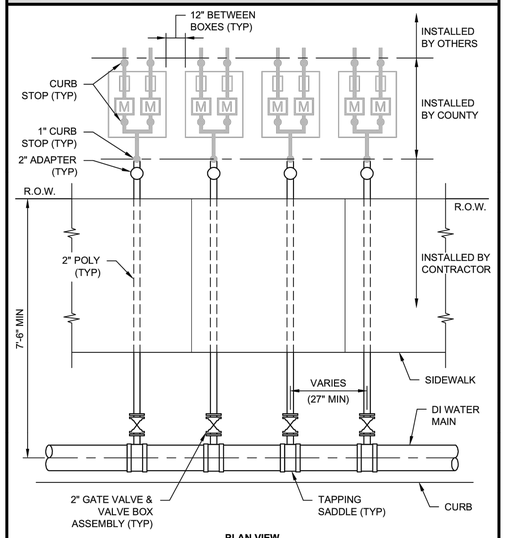
METER INSTALLATION DETAIL - 1 1/2" & 2"



NOTES:

1. 2-IN METER SETTER USED FOR 1.5-IN & 2-IN TURBINES AND DISPLACEMENT METERS.
2. BYPASS USED ON DOMESTIC METERS ONLY. WATER AND RECLAIMED WATER IRRIGATION WILL NOT HAVE BYPASS.
3. TIE LOCATING WIRE INTO EXISTING WIRE WITH WATERPROOF WIRE NUT.
4. CONTRACTOR SHALL USE A 2-IN x 2-IN SQUARE STAKE RISING 24-IN ABOVE THE GROUND AND INSTALL 2-IN POLY AND CURB STOP STUBBED UP 18-IN TO TOP OF STAKE. TOP OF STAKE SHALL BE PAINTED THE COLOR OF THE UTILITY SERVICE AND LABELED WITH THE LOT NUMBER(S) IT SERVES.

METER BANKS - SHORT SERVICE, MAINS GREATER THAN 7.5-FT FROM R.O.W.

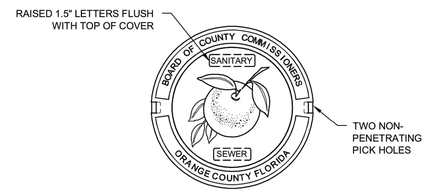


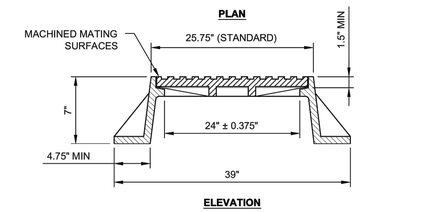
PLAN VIEW

NOTES:

1. DI PIPE SHALL EXTEND A MIN OF 5-FT PAST FIRST AND LAST SERVICE CONNECTION ON ALL METER BANK INSTALLS.

STANDARD MANHOLE FRAME & COVER

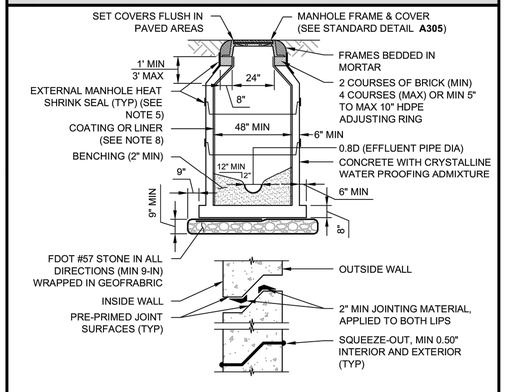




NOTES:

1. ONLY APPLIES TO UTILITIES OWNED AND MAINTAINED MANHOLES. "ORANGE COUNTY" SHALL NOT APPEAR ON PRIVATE MANHOLES.

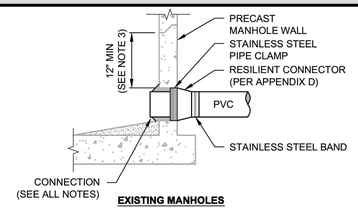
PRECAST CONCRETE MANHOLE



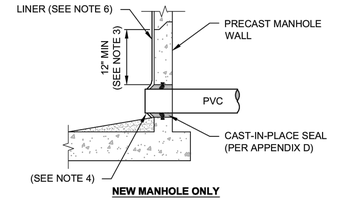
NOTES:

1. DROP CONNECTIONS ARE REQUIRED WHENEVER INVERT OF INFLUENT SEWER IS 24-IN OR MORE ABOVE THE INVERT OF THE MANHOLE. SEE MANHOLE FIG **A302-2**.
2. ECCENTRIC CONE DESIGN MAY BE USED FOR CONFLICT RESOLUTION WITH OCU APPROVAL.
3. A FLOW CHANNEL SHALL BE CONSTRUCTED INSIDE MANHOLE TO DIRECT INFLUENT INTO FLOW STREAM IN ACCORDANCE WITH FIG **A303**.
4. LIFT HOLES THROUGH STRUCTURE ARE NOT PERMITTED.
5. HEAT SHRINK WRAP FOR ALL BARREL SECTION JOINTS SHALL BE A MIN 9-IN WIDTH AND A MIN 17-IN WIDTH WRAP ON THE CORBEL SECTION, RISER RINGS AND RING AND COVER.
6. HDPE ADJUSTING RINGS MAY BE SUBSTITUTED FOR BRICK RISERS.
7. SECTION HEIGHTS VARY AS REQUIRED, AND AS AVAILABLE, FROM APPROVED MANUFACTURERS LISTED IN APPENDIX D AND IN COMPLIANCE WITH ASTM C478.
8. MANHOLE SHALL BE COATED OR LINED IN ACCORDANCE WITH SECTIONS **2310** & **3119**.

GRAVITY MANHOLE CONNECTION



EXISTING MANHOLES

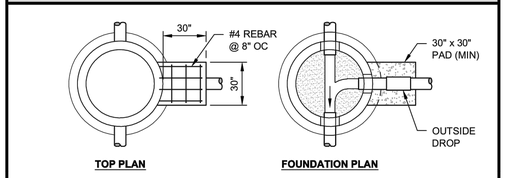


NEW MANHOLE ONLY

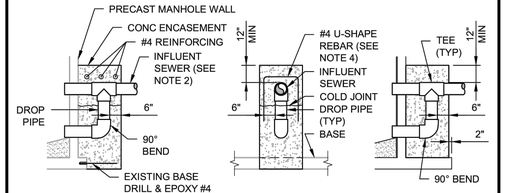
NOTES:

1. AN OUTSIDE DROP CONNECTION SHALL BE REQUIRED FOR ALL INFLUENT LINES WHICH HAVE AN INVERT 2-FT OR MORE ABOVE THE MANHOLE INVERT. SEE FIG **A302-2**.
2. CONTRACTOR SHALL COORDINATE THE PRESENCE OF UTILITIES INSPECTOR DURING EXCAVATION, CORING AND CONNECTIONS TO EXISTING MANHOLES.
3. ALL PIPE CONNECTIONS SHALL HAVE A MINIMUM OF 12-IN SEPARATION FROM ALL JOINTS AND CORES.
4. PIPE SHALL PROTRUDE INTO MANHOLE 2-IN TO 4-IN. THE CONTRACTOR SHALL BEVEL MUD FROM EDGE OF PIPE TO WALL.
5. CONNECTIONS ON EXISTING MANHOLES, REFER TO SECTION **3113** FOR EXCAVATIONS FOR STRUCTURES.
6. MANHOLE SHALL BE COATED OR LINED IN ACCORDANCE WITH SECTIONS **2310** & **3119**.

GRAVITY MANHOLE CONNECTION - OUTSIDE DROP



TOP PLAN **FOUNDATION PLAN**

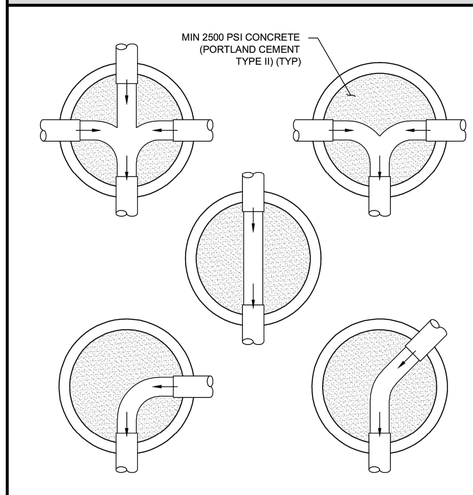


SECTION (EXISTING MANHOLE) **SECTION (EXISTING MANHOLE)** **SECTION (NEW MANHOLE)**

NOTES:

1. DROP PIPE AND FITTINGS SHALL BE OF EQUAL SIZE AND MATERIAL AS THE INFLUENT SEWER.
2. AN OUTSIDE DROP CONNECTION SHALL BE REQUIRED FOR ALL INFLUENT LINES WHICH HAVE AN INVERT 2-FT OR MORE ABOVE THE MANHOLE INVERT.
3. CONTRACTOR SHALL COORDINATE THE PRESENCE OF UTILITIES INSPECTOR DURING EXCAVATION, CORING AND CONNECTIONS TO EXISTING MANHOLES.
4. FORM AND POUR CONCRETE TO BOTTOM OF TEE. INSTALL A MINIMUM OF TWO (2) U-SHAPE REBAR MIN 8-IN BELOW TEE. INSTALL GRAVITY MAIN, FORM & CAP OFF W/ CONCRETE MIN 12-IN ABOVE INFLUENT PIPE.
5. ALL PIPE CONNECTIONS SHALL HAVE A MINIMUM OF 12-IN SEPARATION FROM ALL JOINTS AND CORES.

GRAVITY MANHOLE FLOW CHANNELS



NOTES:

1. ALL PIPE CONNECTIONS SHALL BE IN ACCORDANCE WITH FIGS **A302-1**, **A302-2**, GRAVITY MANHOLE CONNECTIONS
2. ALL BENCH WORK SHALL SLOPE TOWARDS THE INVERT AND BE A MIN 2-IN PER FOOT SLOPE.

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LICENSE NO. 75493

PLAN STATUS	
DATE	DESCRIPTION
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DESIGN	DRAWN CHKD

SCALE: AS SHOWN
JOB No. 011291-01-001
DATE: August, 2023
FILE: 011291-D-CP-001-DET
SHEET C8.1

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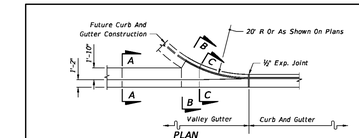

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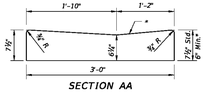
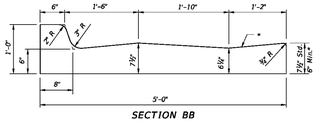
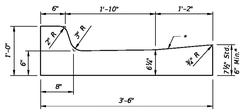


SECTION AA

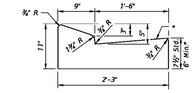


SECTION BB

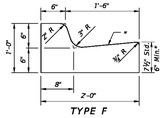


SECTION CC

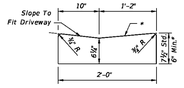
VALLEY GUTTER



TYPE E

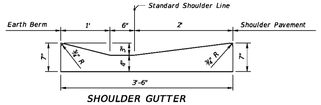


TYPE F

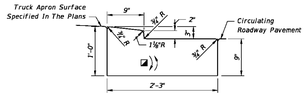


Note: To be paid for as parent curb.

DROP CURB

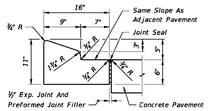


SHOULDER GUTTER

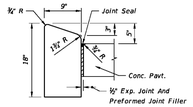


TRAFFIC BEARING SECTION FOR USE IN ROUNDABOUT CENTRAL ISLAND CONSTRUCTION

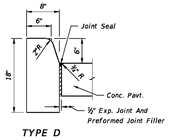
TYPE RA



TYPE A



TYPE B



TYPE D

Note: For use adjacent to concrete or flexible pavement, concrete shown. Expansion joint, preformed joint filler and joint seal are required between curbs and concrete pavement only, see Sheet 2.

CONCRETE CURB

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

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

For use adjacent to concrete or flexible pavement. For details depicting usage adjacent to flexible pavement, see Sheet 2. Expansion joint, preformed joint filler and joint seal are required between curb & gutter and concrete pavement only, see Sheet 2.

CONCRETE CURB AND GUTTER

LAST REVISION 11/01/17	REVISION	DESCRIPTION:	FDOT FY 2020-21 STANDARD PLANS	CURB AND GUTTER	INDEX 520-001	SHEET 1 of 2

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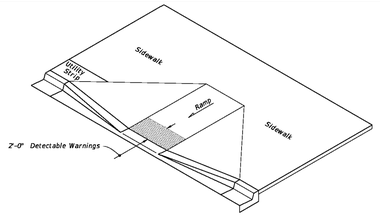
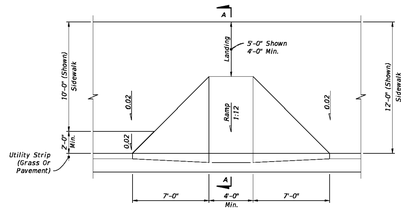


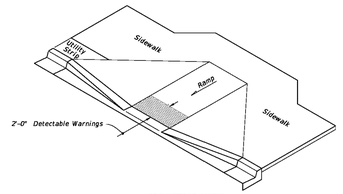
ISOMETRIC VIEW



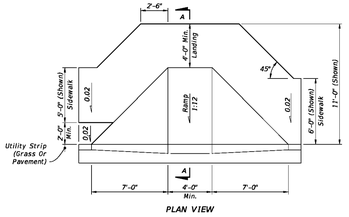
PLAN VIEW

NOTE: For Example of CR-A used in Radial Curb Returns, See Sheet 8.

CR-A

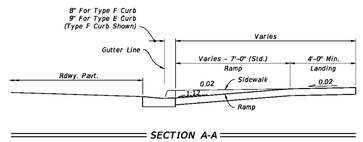


ISOMETRIC VIEW



PLAN VIEW

CR-B



SECTION A-A

SIDEWALK CURB RAMPS CR-A AND CR-B

LAST REVISION 11/01/18	REVISION	DESCRIPTION:	FDOT FY 2020-21 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX 522-002	SHEET 2 of 8

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APPENDIX A STANDARD DRAWINGS

OCU GENERAL NOTES

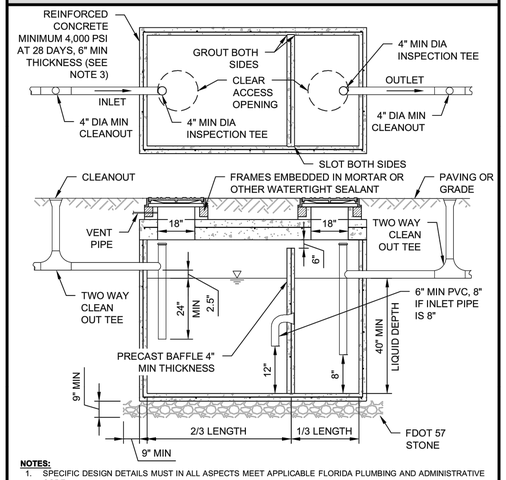
1. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN PROXIMITY OF INCLUDING, BUT NOT LIMITED TO; WATER MAINS, WASTEWATER FORCE MAINS, GRAVITY MAINS, RECLAIMED WATER MAINS, ELECTRIC, GAS, CABLE TV, TELECOMMUNICATIONS, STORM WATER, FIBER OPTIC AND OTHER UNDERGROUND FACILITIES. MAIN LOCATIONS SHOWN ON PLANS MAY NOT BE EXACT. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING UTILITY LOCATIONS.
2. SHOULD A PIPE EMERGENCY OCCUR, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OCU DISPATCH OPERATOR (407-836-2777) AND THE OCU INSPECTOR.
3. THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION INSPECTION SECTION, FIELD SERVICES DIVISION AT LEAST 10 CALENDAR DAYS PRIOR TO COMMENCEMENT OF THE CONSTRUCTION PROJECT BY CALLING (407) 254-9798.
4. THE CONTRACTOR SHALL NOTIFY THE OCU CONSTRUCTION INSPECTOR IN ACCORDANCE WITH TABLE 4110-1 "UTILITIES' SCHEDULE OF NOTIFICATIONS IN THIS MANUAL.
5. THE MATERIALS, PRODUCTS, AND CONSTRUCTION OF ALL UTILITIES CONNECTING TO THE OCU SYSTEM SHALL BE IN CONFORMANCE WITH THE STANDARDS, CONSTRUCTION SPECIFICATIONS, AND APPENDIX D IN THIS MANUAL.
6. ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO; WATER MAINS, FORCE MAINS, RECLAIMED WATER MAIN, SANITARY GRAVITY PIPES, STORM WATER PIPES, ELECTRIC, TELEPHONE, GAS, POLES AND STAYS, CABLE TV AND OTHER UTILITY FACILITIES WITHIN THE LIMITS OF THE PROJECT WILL BE SUPPORTED AND PROTECTED AGAINST DAMAGE DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL ADJUST ALL EXISTING OCU MAINS AND FACILITIES IN CONFLICT WITH NEW GRADE, NEW OR ALTERED ROADWAYS, SIDEWALKS, DRIVEWAYS, CURBS, OR STORM WATER IMPROVEMENTS. OCU FACILITIES TO BE ADJUSTED INCLUDE, BUT ARE NOT LIMITED TO; PIPELINES, PUMP STATIONS, VALVE BOXES, AIR RELEASE VALVES, FIRE HYDRANTS, MANHOLE COVERS, AND METERS. ALL ADJUSTMENTS SHALL BE MADE TO CURRENT STANDARDS.
8. ONLY OCU PERSONNEL SHALL OPERATE EXISTING OCU WATER, WASTEWATER, AND RECLAIMED WATER VALVES. THE CONTRACTOR IS RESPONSIBLE FOR OPERATING ANY NEWLY INSTALLED VALVE THAT HAS NOT BEEN CLEARED FOR USAGE BY FDEP AND OCU. THE CONTRACTOR SHALL COORDINATE VALVE OPERATION WITH THE OCU INSPECTOR. FOR OPERATION OF MAINS NOT OWNED BY OCU, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE APPROPRIATE UTILITY REPRESENTATIVE.
9. CONSTRUCTION ACTIVITIES SHALL NOT CAUSE INTERRUPTIONS IN WATER, WASTEWATER, OR RECLAIMED WATER SERVICE. THE CONTRACTOR SHALL COORDINATE PRE-APPROVED INTERRUPTIONS OF SERVICE WITH THE OCU INSPECTOR 7 WORKING DAYS IN ADVANCE AND WRITTEN NOTICE SHALL BE GIVEN TO AFFECTED CUSTOMERS AT LEAST 4 WORKING DAYS IN ADVANCE.
10. THE CONTRACTOR SHALL PROVIDE FOR BYPASSING AND / OR HAULING OF WASTEWATER DURING APPROVED INTERRUPTIONS OF WASTEWATER FLOWS AND CONNECTIONS. THE CONTRACTOR SHALL SUBMIT A BYPASS OR HAUL PLAN, REVIEWED AND APPROVED BY A PROFESSIONAL ENGINEER TO OCU DEVELOPMENT ENGINEERING AND TO THE INSPECTOR FOR APPROVAL PRIOR TO IMPLEMENTATION BY CONTRACTOR.
11. ALL VALVES INSTALLED AS PART OF THIS CONSTRUCTION PROJECT SHALL REMAIN CLOSED DURING CONSTRUCTION. KEEP VALVES ON ALL WET TAPS CLOSED UNTIL CLEARED BY FDEP. DO NOT CONNECT NEWLY CONSTRUCTED WATER MAINS TO ANY EXISTING WATER MAINS UNLESS CLEARED BY FDEP AND OCU.
12. THE CONTRACTOR SHALL PROVIDE A JUMPER ASSEMBLY WITH AN APPROVED BACKFLOW PREVENTER FOR MAKING TEMPORARY CONNECTIONS TO AN EXISTING POTABLE WATER SOURCE IN ORDER TO CHLORINATE AND FLUSH NEW WATER MAINS WITH POTABLE WATER. ANY TEMPORARY POTABLE WATER CONNECTIONS TO RECLAIMED WATER OR FORCE MAIN SHALL ALSO BE EQUIPPED WITH AN APPROVED BACKFLOW PREVENTER.
13. FOR PVC PIPE, NO JOINT DEFLECTION OR PIPE BENDING IS ALLOWED. ALIGNMENT CHANGE SHALL BE MADE ONLY WITH FITTINGS.
14. FOR DIP PIPE, LONG RADIUS CURVES, EITHER HORIZONTAL OR VERTICAL, MAY BE INSTALLED WITH STANDARD PIPE BY DEFLECTIONS AT THE JOINTS. MAXIMUM DEFLECTIONS AT PIPE JOINTS, FITTINGS AND LAYING RADIUS FOR THE VARIOUS PIPE LENGTHS SHALL NOT EXCEED 75 PERCENT OF THE PIPE MANUFACTURER'S RECOMMENDATION.
15. FOR APPROVED PVC OR HDPE PIPE USED IN A HORIZONTAL DIRECTIONAL DRILL INSTALLATION, THE CURVATURE AND/OR DEFLECTION SHALL NOT EXCEED THE PARAMETERS ESTABLISHED IN THIS MANUAL.
16. ALL DAMAGE TO ORANGE COUNTY INFRASTRUCTURE, PIPELINES, AND ASSETS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE WITH AN APPROVED METHOD BY THE COUNTY. IF THE REPAIR IS NOT PERFORMED IN A TIMELY MANNER, AS DETERMINED BY THE ORANGE COUNTY UTILITY INSPECTOR, ORANGE COUNTY MAY PERFORM REPAIRS AND THE CONTRACTOR WILL BE CHARGED FOR ALL EXPENSES ASSOCIATED WITH THE REPAIR.
17. THE CONTRACTOR SHALL BE LIABLE FOR ANY AND ALL SANITARY SEWER OVERFLOWS (SSO) ASSOCIATED WITH THE WORK, REGARDLESS OF FAULT. THE CONTRACTOR WILL BE ASSESSED PENALTIES FOR ANY AND EACH SSO AS SPECIFIED IN SECTION 3110, GENERAL CONSTRUCTION REQUIREMENTS.

ORANGE COUNTY UTILITIES
STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL

FIGURE GN
10/10/2021

APPENDIX A STANDARD DRAWINGS

GREASE INTERCEPTOR



NOTES:

1. SPECIFIC DESIGN DETAILS MUST IN ALL ASPECTS MEET APPLICABLE FLORIDA PLUMBING AND ADMINISTRATIVE CODE.
2. SIZE GREASE INTERCEPTOR PER OCU MANUAL, SECTION **2310**. MINIMUM SIZE 750 GAL; MAXIMUM SIZE 1250 GAL.
3. INTERCEPTORS SHALL BE MONOLITHIC, WATER AND GAS TIGHT. SECTIONAL TANKS SHALL NOT BE PERMITTED.
4. ALL FIXTURES LOCATED IN FOOD AND BEVERAGE PREPARATION AREAS SHALL BE ROUTED THOUGH GREASE INTERCEPTOR. RESTROOM WASTE SHALL NOT BE ROUTED THROUGH INTERCEPTOR.
5. BAFFLE REQUIRED; ALTERNATIVE DESIGNS ARE ACCEPTABLE. DESIGN MUST MEET FLORIDA PLUMBING AND ADMINISTRATIVE CODE.
6. LOADS: H-20 TRUCK WHEELS WITH 30% IMPACT PER AASHTO. TRAFFIC BEARING FRAME AND COVER TO MEET FDOT STANDARDS IF APPLICABLE.

ORANGE COUNTY UTILITIES
STANDARDS & CONSTRUCTION SPECIFICATIONS MANUAL

FIGURE A308-1
10/10/2021

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CITY OF ORLANDO

ORANGE COUNTY

ANDREW J. PETERSEN LICENSE No. 75493 STATE OF FLORIDA PROFESSIONAL ENGINEER

ANDREW J. PETERSEN
LICENSE NO. 75493

PLAN STATUS

DATE	DESCRIPTION
–	–
DESIGN	DRAWN / CHKD

SCALE: AS SHOWN
JOB No. 011291-01-001
DATE: August, 2023
FILE: 011291-D-CP-001-DET

SHEET C8.2

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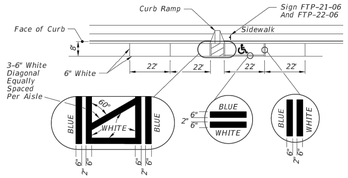

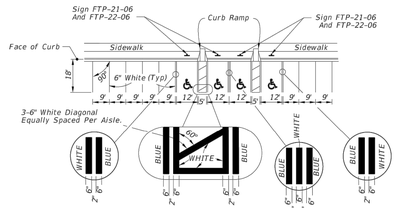

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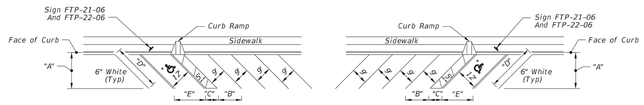


FORWARD-IN PARKING

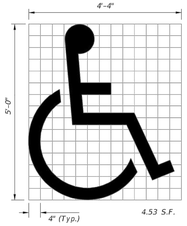
REVERSE-IN PARKING

*FOR ACCESSIBLE MARKINGS - SEE ABOVE

DIMENSIONS					
∠ θ	"A"	"B"	"C"	"D"	"E"
45°	17'-0"	12'-9"	7'-0"	24'-0"	17'-0"

PAVEMENT MARKING FOR PARKING

2.7 S.F.



4.53 S.F.

(See Note 5)

UNIVERSAL SYMBOL OF ACCESSIBILITY

NOTES:

1. Dimensions are to the centerline of markings.
2. An Access Aisle is required for each accessible space when angle parking is used.
3. Criteria for pavement markings only, not public sidewalk curb ramp locations. For ramp locations refer to plans.
4. Mount FTP-22-06 sign below the FTP-21-06 sign.
5. Use of the pavement symbol in accessible parking spaces is optional. When pavement symbol is used, the symbol is either 3'-0" or 5'-0" high and white in color.

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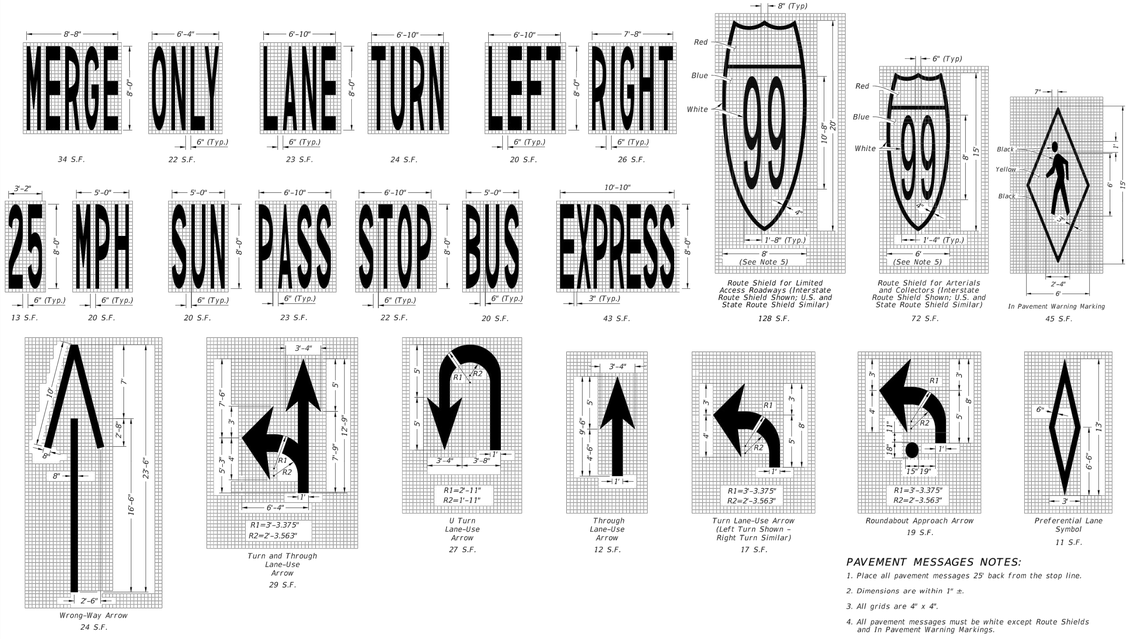


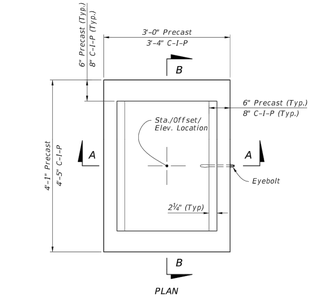
PAVEMENT MESSAGES NOTES:

1. Place all pavement messages 25' back from the stop line.
2. Dimensions are within 1" ±.
3. All grids are 4" x 4".
4. All pavement messages must be white except Route Shields and In Pavement Warning Markings.
5. Increase width of route shield for routes with three digits.

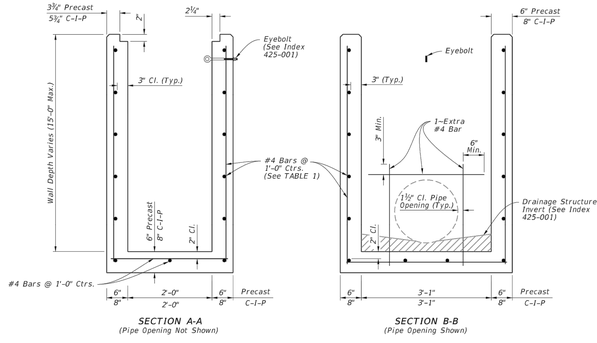
PAVEMENT MESSAGE AND ARROW DETAILS

10/7/2022 2:50:10 PM

LAST REVISION 11/01/21	REVISION	DESCRIPTION:	FDOT FY 2023-24 STANDARD PLANS	PAVEMENT MARKINGS	INDEX 711-001	SHEET 1 of 13

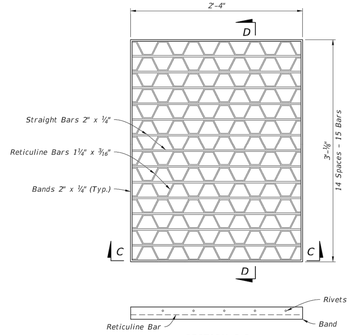


PLAN

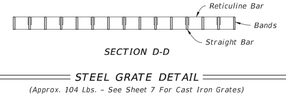


SECTION A-A
(Pipe Opening Not Shown)

SECTION B-B
(Pipe Opening Shown)



SECTION C-C



SECTION D-D

STEEL GRATE DETAIL
(Approx. 104 Lbs. - See Sheet 7 For Cast Iron Grates)

TABLE 1
HORIZONTAL WALL REINFORCING SCHEDULE

WALL DEPTH	SCHEDULE	AREA (in.²/ft.)	MAX. SPACING	
			BARS	WWF
0' - 15'	A12	0.20	12"	8"

NOTES:

1. Grate, Concrete Apron, and Sod not shown on structure detail.
2. See Sheet 8, 9, and 10 for Concrete Apron and Sodded Area details.

DIMENSIONAL AND REINFORCING DETAILS

TYPE C - DIMENSIONAL, REINFORCING, AND STEEL GRATE DETAILS

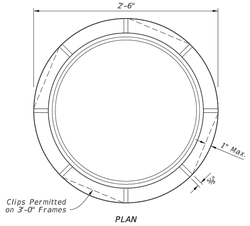
10/20/2022 8:43:04 AM

LAST REVISION 10/01/20	REVISION	DESCRIPTION:	FDOT FY 2023-24 STANDARD PLANS	DITCH BOTTOM INLET TYPES C, D, E, AND H	INDEX 425-052	SHEET 2 of 14

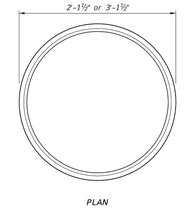
TABLE 1
WEIGHT OF CASTINGS (lb)

Frame Type	2'-0" OPENING		3'-0" OPENING			
	Frame	Cover (Std.)	Frame	2-Piece Cover		
				Inside	Outside	Total
I	155	190	220	190	220	410
II	145	190	255	190	220	410
III	90	190	180	190	220	410

NOTE:
Frame Type I in Table 1, includes Adjustable frames.



PLAN



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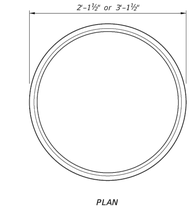

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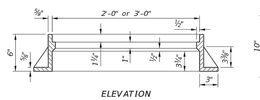
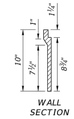
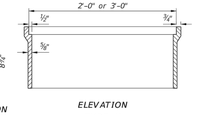
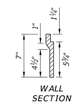

ELEVATION
TYPE I
(For Manholes)



WALL SECTION



ELEVATION
TYPE II
(For Curb Inlets Types 1, 2, 3, & 4)



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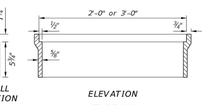
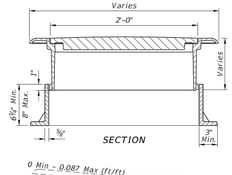
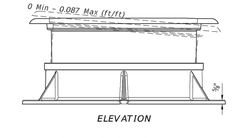


ELEVATION
TYPE III
(For Curb Inlets Types 7 & 8)

MANHOLE FRAMES

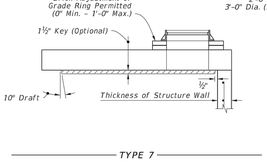


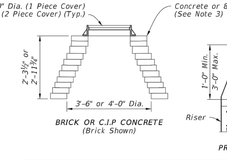
SECTION



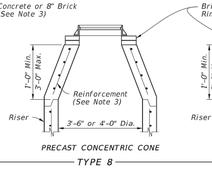
ELEVATION

TYPE I ADJUSTABLE FRAME



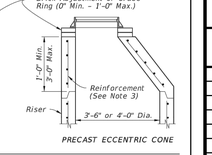


BRICK OR C.I.P CONCRETE
(Brick Shown)



PRECAST CONCENTRIC CONE

TYPE 7



PRECAST ECCENTRIC CONE

TYPE 8

NOTES:

1. Use Class II concrete for Manhole top Type 7 slabs.
2. Manhole top Type 7 slabs may be of cast-in-place or precast construction. The optional key is for precast tops and in lieu of dowels. Omit frame and slab openings when top is used over a junction box.
3. Manhole top Type 8 may be of cast-in-place, precast concrete construction, or brick construction. For concrete construction, use the same concrete and steel reinforcement as the supporting wall unit. An eccentric cone may be used.
4. Use construction joint options, as shown on Sheet 6 to secure manhole tops to structures.
5. Frames may be adjusted to a maximum 12" height with brick or precast ASTM C478 grade rings.
6. Manhole top Type 8 may be substituted for a Type 7, if the minimum dimensions are not reduced.
7. Manhole top Type 7 may be substituted for Type 8, if the minimum thickness (h) above pipe opening cannot be maintained with Type 8.

MANHOLE TOPS

MANHOLE FRAMES AND MANHOLE TOPS

10/20/2022 1:35:09 PM

LAST REVISION 11/01/20	REVISION	DESCRIPTION:	FDOT FY 2023-24 STANDARD PLANS	SUPPLEMENTARY DETAILS FOR DRAINAGE STRUCTURES	INDEX 425-001	SHEET 2 of 8

CAD file name: V:\011291 - ADS\011291-01-001 (ENG) - Dutch Bros - Orlando, FL\Engineering\Engineering Plans\011291-D-CP-001-DET.dwg, TOUKWU, 8/4/2023

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DETAILS
DUTCH BROS COFFEE
207 S. GOLDENROD RD. & HWY. 408
ORLANDO, FL 32807

ORANGE COUNTY
CITY OF ORLANDO

ANDREW J. PETERSEN LICENSE No. 75493 STATE OF FLORIDA PROFESSIONAL ENGINEER

ANDREW J. PETERSEN
LICENSE NO. 75493

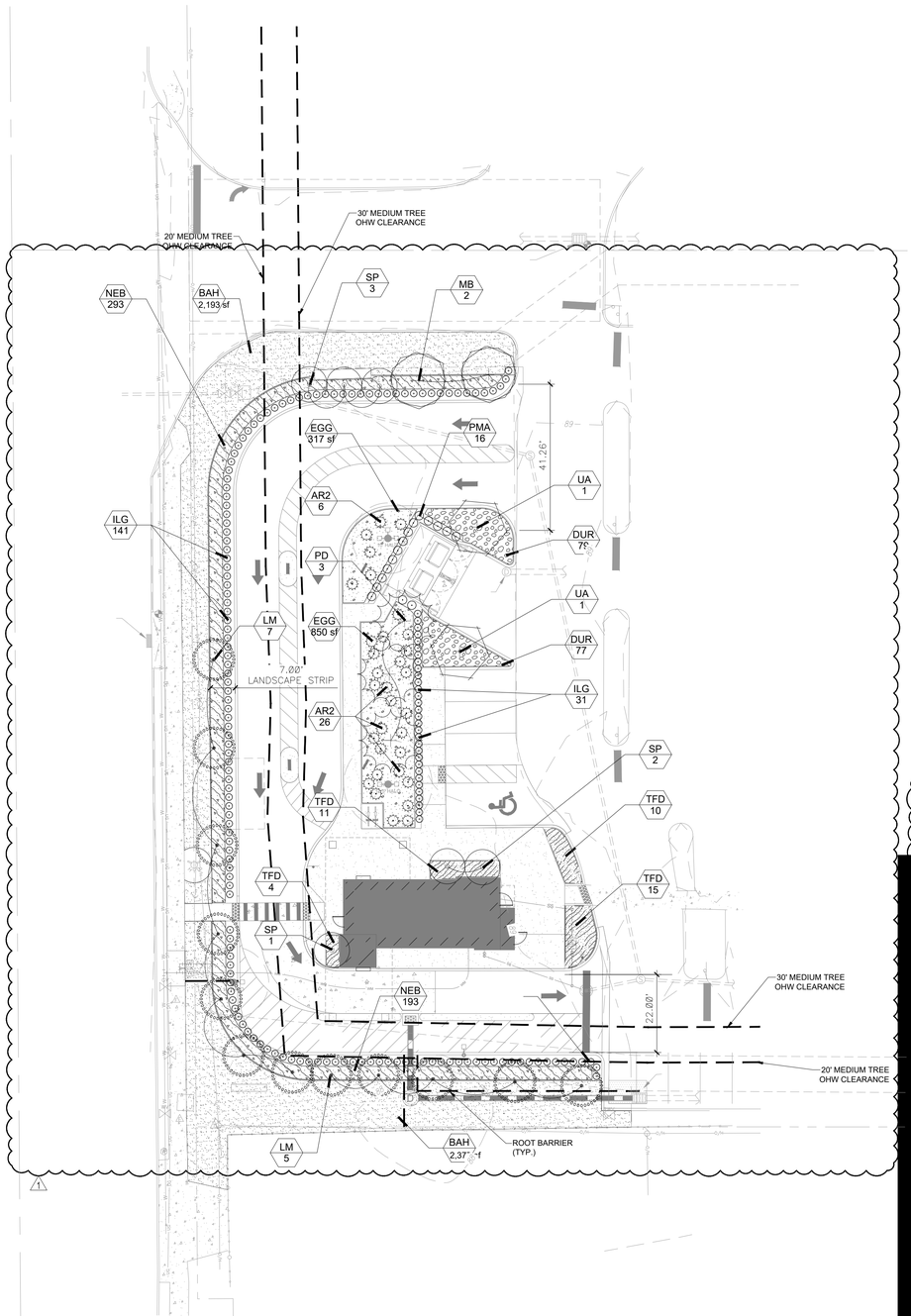
PLAN STATUS

DATE	DESCRIPTION

– DESIGN	– DRAWN	– CHKD

SCALE: AS SHOWN
JOB No. 011291-01-001
DATE: August, 2023
FILE: 011291-D-CP-001-DET

SHEET C8.3



ORANGE COUNTY, FLORIDA-LANDSCAPE CODE COMPLIANCE CHART
CHAPTER 15: ENVIROMENTAL CONTROL & CHAPTER 24: LANDSCAPING, BUFFERING, AND OPEN SPACE

ZONING: PD
SITE AREA:0.52 AC (22,519 SF)

Sec. 24-2 PLANT MATERIAL REQUIREMENTS
Shade or Canopy Trees: 10' ht., 3" Cal. min.; 25' mature canopy spread min.
Understory Trees: 7' ht., 2" Cal. min.
Hedge: 30" ht. & 5 gal min.

		REQUIRED	PROVIDED
Sec. 24-4.(a).1. LANDSCAPING ADJACENT TO RIGHT-OF-WAY/ROADWAY			
a) A strip of land at least 7' in width between abutting R/O/W & V.U.A. Groundcover (no turf) shall be used on this landscape strip			***Complies*** ***Complies***
b) Perimeter Vehicular Use Area Landscaping Related to Abutting R.O.W & V.U.A			
c) Continuous hedge 30" ht along the perimeter abutting landscape strip			***Complies***
Sec. 24-4.(a).1. in such instance, the understory trees shall be a minimum of seven (7) feet in height, have at least a two-inch caliper, and shall be planted at a rate of one (1) tree for every twenty-five (25) feet. (1) Understory Tree /25'			
West: 199.28 LF - 5 LF Paths = 194.28 LF	*(194.28 LF/ 25 LF)*	**8 UNDERSTORY TREES (OHW)**	**7 UNDERSTORY TREES (OHW)**
South: 122.84 LF	*(122.84 LF/ 25 LF)*	**5 UNDERSTORY TREES (OHW)**	**5 UNDERSTORY TREES (OHW)**
Sec. 24-4.(a).2. LANDSCAPING ADJACENT TO OTHER PROPERTIES			
b) Perimeter Vehicular Use Area Landscaping Related to Abutting Non-Residential (1) Shade Tree/50' of common lot line			
East: 226.13 LF - 31.50 + 41.26 LF Drives = 154.4 LF	*(153.4 LF/ 50 LF)*	**3 SHADE TREES**	**0 SHADE TREES**
North: 108.43 LF	*(108.43 LF/ 50 LF)*	**3 SHADE TREES**	**3 SHADE TREES***
Sec. 24-4.(a).3. INTERIOR LANDSCAPING			
b) 10% minimum of the interior vehicular use area in Commercial/PD shall be landscaped Gross parking area: 9,006.53 SF parking contiguous to a perimeter	*GPA (sf) x 10%*	900.65 sf	**1800 sf**
c) (1) Shade Tree/ 100 sf of required interior landscaping	*(900.65 sf/100)*	**9 SHADE TREES**	**6 SHADE TREES**
d & e) (1) Tree / Landscape Parking Island	*(2 Islands)*	2 TREES	2 TREES
f) Turf/sod shall not be permitted for use in landscape areas within any interior VUAs			***Complies***
Sec. 15-283.(d) PROTECTED TREE REPLACEMENT Inch: Inch replacement with 3" Cal. min. for removed Non-Specimen Protected Trees ∟*0" Non-Specimen Protected DBH removed* Preserved Tree DBH: 0" *(No additional replacement required)* DBH Replaced : 63" from Proposed Shade Trees; *(Replacement Trees May Count to Sec. 24-4 Req's)*		**0" DBH**	**NO DBH REQUIRED SITE PRE - CLEARED DUE TO**
			11 SHADE TREES + (18") DBH EQUIVALENT CONTRIBUTION TO COUNTRY TREE TRUST FUND 1
TOTALS		**17 SHADE TREES**	
		13 UNDERSTORY TREES	**13 UNDERSTORY/PALMS**

NOTE: Per Sec. 15-283.(d).5 Replacement trees and preserved trees ([3]" caliper or greater) may count toward meeting the planting requirements of Orange County Code Chapter 24; Per Sec. 15-283.(d).6, healthy preserved trees shall count towards meeting the replacement requirements
*** Includes (3) Sabal Palms counted at 3:1**

PLANT SCHEDULE

SHADE TREES	QTY	COMMON NAME	BOTANICAL NAME	SPECIFICATIONS	CAL/DBH	HEIGHT	SPREAD	NATIVE	XERIC	REMARKS
MB	2	Bracken's Southern Magnolia	Magnolia grandiflora 'Brackens'	B & B	3" Cal.	14' Ht	5'	Yes	Medium	4' CT; MATCHED
PD	3	Slash Pine	Pinus elliottii dense	B & B	3" Cal.	12-14' staggered	6'	Yes	Low	6' CT

[redacted]

NOTE:
SITE PRE CLEARED FOR PROPOSED DEVELOPMENT

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N
0 20' 40'
GRAPHIC SCALE
1" = 20'

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LANDSCAPE PLAN
DUTCH BROS COFFEE
NEC S. GOLDENROD RD. & HWY. 408
ORLANDO, FL 32807
CITY OF ORLANDO
ORANGE COUNTY

REGISTERED LANDSCAPE ARCHITECT
CHERYL W. CAMPBELL
LA 0001786
STATE OF FLORIDA

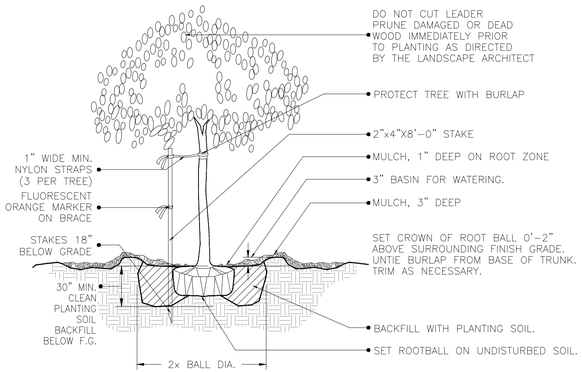
CHERYL W. CAMPBELL
LICENSE NO. 0001786

PLAN STATUS

NO.	DESCRIPTION

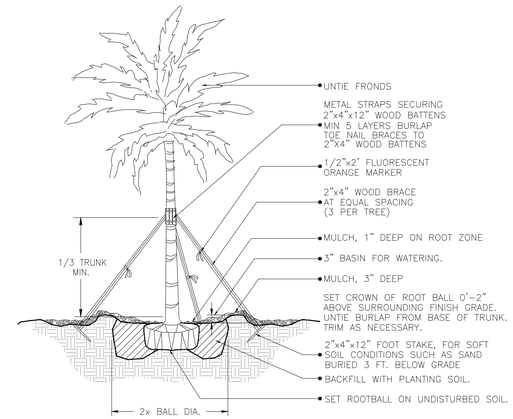
AR DESIGN | GD DRAWN | CWC CHKD
SCALE: AS SHOWN
JOB No. 011291-01-001
DATE: June, 2023
FILE:011291-01-001-LANDSCAPE PLAN
SHEET L-1.0

CAD file name: V:\011291 - ADS\011291-01-001 (ENG) - Dutch Bros - Orlando, FL\Engineering\Landscape\011291-01-001-LANDSCAPE PLAN.dwg, AROBINSON 6/21/2023



(2" cal. and under) SMALL TREE PLANTING DETAIL

N.T.S.



LARGE PALM PLANTING DETAIL

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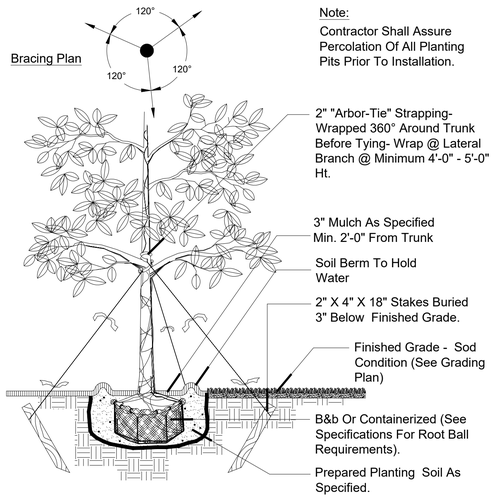
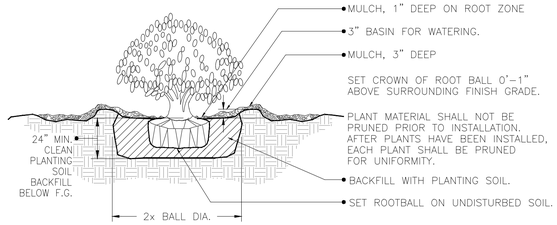


Note:
Contractor Shall Assure Percolation Of All Planting Pits Prior To Installation.

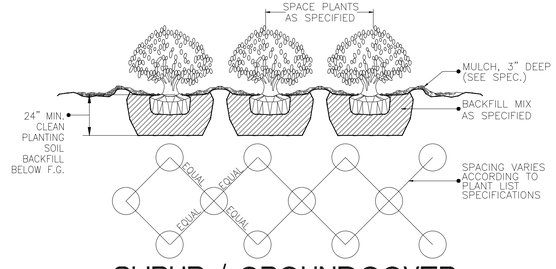
LARGE TREE PLANTING DETAIL

N.T.S.



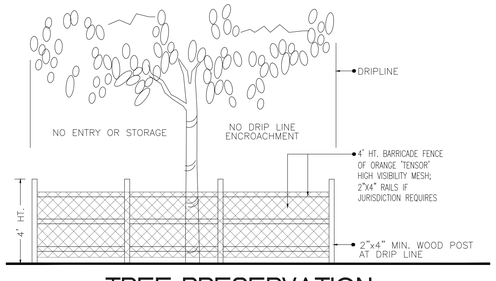
SHRUB PLANTING DETAIL

N.T.S.



SHRUB / GROUNDCOVER SPACING / PLANTING DETAIL

N.T.S.



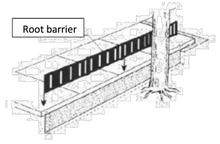
TREE PRESERVATION BARRICADE FENCING DETAIL

N.T.S.

Write the following root barrier specifications* on each copy of the plan drawing, or attach a copy of this sheet.

1. Panels of 0.085" thick polypropylene
2. Zipper joining system
3. Rounded edges
4. 24" depth
5. Anti-lift pads

*Contact the Landscape Division if you propose an equivalent root barrier option.



ROOT BARRIER DETAIL

N.T.S.

GENERAL LANDSCAPE NOTES:

1. PLANT MATERIAL: ALL PLANT MATERIAL SHALL BE FLORIDA #1 OR BETTER AS ESTABLISHED BY 'GRADES AND STANDARDS FOR NURSERY PLANTS' OF THE STATE OF FLORIDA (FL) , DEPARTMENT OF AGRICULTURE, UNLESS OTHERWISE NOTED. ALL TREES SHALL BE SINGLE LEADER, FIELD GROWN/BALLED & BURLAPPED (FS/BB); CONTAINER GROWN TREES ARE NOT ACCEPTABLE & WILL BE IMMEDIATELY REJECTED UPON INSPECTION. ALL SUBSTITUTIONS AND CHANGES SHALL BE APPROVED IN WRITING PRIOR TO INSTALLATION. ANY DISCREPANCIES BETWEEN PLANS, SITE AND SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE LANDSCAPE ARCHITECT. THE OWNER AND GOVERNING MUNICIPALITY. OPTIONS FOR ALTERNATE SPECIES BASED ON LACK OF STATEWIDE AVAILABILITY SHALL BE FURNISHED TO LANDSCAPE ARCHITECT OF RECORD A MINIMUM OF 30 DAYS BEFORE COMMENCEMENT OF CONSTRUCTION; LACK OF AVAILABILITY WILL BE VERIFIED USING THE LATEST INDUSTRY ACCEPTED PUBLICATION LISTINGS
2. ALL TREES, SHRUBS AND GROUNDCOVERS SHALL, AT A MINIMUM, BE OF THE SIZES AS SPECIFIED IN THE PLANT LIST, WHERE THERE IS A DISCREPANCY EITHER IN QUANTITIES, PLANT NAMES, SIZES OR SPECIFICATIONS BETWEEN THE PLAN OR PLANT LIST, THE PLAN TAKES PRECEDENCE. QUANTITIES LISTED ON THE THE PLANT LIST ARE FOR ESTIMATING PURPOSES. CONTRACTOR SHALL VERIFY ALL QUANTITIES. MULCH, TOPSOIL, FERTILIZER, ETC, SHALL BE INCLUDED IN THE UNIT COST OF THE PLANTS, THE PLANTING PLAN SHALL BE INSTALLED IN COMPLIANCE WITH ALL EXISTING CODES AND APPLICABLE DEED RESTRICTIONS.
3. SOD: ALL AREAS NOT USED FOR BUILDINGS, VEHICULAR USE AREAS, WALKS OR PLANTING BEDS SHALL BE GRASSED. GRASSING SHALL EXTEND TO ANY ABUTTING STREET PAVEMENT EDGE AND TO THE MEAN WATERLINE OF ANY ABUTTING CANAL, LAKE OR WATERWAY. STENOTAPHRUM SECUNDATUM, V. 'FLORITAM' UNLESS OTHERWISE NOTED (ST. AUGUSTINE SOLID SOD). PASPALUM NOTATUM 'ARGENTINE' ('ARGENTINE' BAHIA SOLID SOD) SHALL BE PROVIDED IN THE RIGHT-OF-WAYS & ON THE BANKS & BOTTOM OF DETENTION PONDS. OFFSITE DISTURBED AREAS SHALL BE RE-SODDED TO MATCH EXISTING, ALL AREAS DISTURBED BY CONSTRUCTION & NOT NOTED TO HAVE SHRUBS OR GROUNDCOVERS ON THE LANDSCAPE PLAN SHALL BE SODDED BY THE CONTRACTOR.
4. AMENDED PLANTING SOIL: PLANTING SOIL FOR USE IN BACK FILLING PLANTING HOLES SHALL BE FORTY PERCENT (40%) TOPSOIL AND SIXTY PERCENT (60%) SAND AND BE FERTILE, FRIABLE, AND OF A LOAMY CHARACTER, WITHOUT MIXTURE OF SUBSOIL MATERIALS, AND OBTAINED FROM A WELL-DRAINED, ARABLE SITE. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND SHALL BE FREE FROM HEAVY CLAY, COARSE SAND, STONES, LIME LUMPS, PLANTS, ROOTS OR OTHER FOREIGN MATERIALS, OR NOXIOUS WEEDS, IT SHALL NOT CONTAIN TOXIC SUBSTANCES WHICH MAY BE HARMFUL TO PLANT GROWTH. PH RANGE SHALL BE 5.0 TO 7.0 INCLUSIVE. ALL PLANT MATERIAL TO RECEIVE PLANTING SOIL AS PER DETAILS & NOTES.
5. GENERAL RECOMMENDED PLANTING SOIL DEPTH: ALL TREES AND SHRUBS SHALL BE PLANTED WITH A MINIMUM OF 12" TOPSOIL AROUND AND BENEATH THE ROOTBALL. MINIMUM TOPSOIL SHALL BE 6" FOR GROUNDCOVER AREAS AND 2' FOR SODDED GRASS AREAS. THIS IS IN ADDITION TO A MINIMUM OF 10" OF UNDISTURBED OR NATIVE SOIL THAT WAS STORED/STOCKPILED ON SITE AND REUSED, OR CLEAN IMPORTED PLANTING SOIL WITH A RANGE OF ORGANIC MATTER BETWEEN 3-5% WITH NO STONES GREATER THAN AN INCH AND A HALF IN DIAMETER IN ANY DIRECTION. TOPSOIL DEPTHS PLUS PLANTING SOIL/EXISTING NATIVE SOIL MINIMUM DEPTHS ARE IN ADDITION TO ANY LIMESTONE/ LIMEROCK SUBGRADE, & IN ADDITION TO EXCAVATION WIDTHS REQUIRED FOR TREE PITS AS SHOWN ON THE PLANTING DETAILS, TREE PITS SHALL BE EXCAVATED & BACKFILLED TO A MINIMUM DEPTH OF 30".
6. CONTRACTOR TO NOTIFY "SUNSHINE STATE ONE CALL OF FLORIDA, INC," AT 1-800-432-4770 TWO FULL BUSINESS DAYS PRIOR TO DIGGING FOR UNDERGROUND UTILITY LOCATIONS.
7. CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL UTILITY LOCATIONS AND INSTALLING FACILITIES SO AS TO NOT CONFLICT. ALL DAMAGE TO EXISTING UTILITIES OR IMPROVEMENTS CAUSED BY CONTRACTOR SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER, CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES IN THE SITE SURVEY OR DISPOSITION PLAN TO THE OWNER & LANDSCAPE ARCHITECT OF RECORD PRIOR TO STARTING WORK, ANY OVERHEAD POWERLINES, UNDERGROUND UTILITIES, EXISTING TREES, ETC, IN CONFLICT WITH PROPOSED LANDSCAPING, INCLUDING FPL RIGHT TREE RIGHT, SHALL BE REPORTED IMMEDIATELY TO THE OWNER'S REPRESENTATIVE OR DESIGNEE, AND TO THE LANDSCAPE ARCHITECT OF RECORD PRIOR TO SUBJECT PLANT MATERIAL INSTALLATION. FAILURE TO NOTIFY THE LANDSCAPE ARCHITECT & OWNER OF ANY DISCREPANCIES SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR AND WILL RESULT IN THE CONTRACTOR MOVING OR REPLACING THE PLANT MATERIAL AT THEIR OWN EXPENSE. LARGE MATURING SHADE TREES (THOSE THAT TYPICALLY GROW TO A SPREAD OR HEIGHT GREATER THAN 25 FEET) SHALL NOT BE PLANTED WITHIN 20 FEET OF ANY OTHER LARGE MATURING SHADE TREES UNLESS OTHERWISE SPECIFICALLY SHOWN ON THE LANDSCAPE PLAN. CONTRACTOR SHALL NOT WILLFULLY INSTALL PLANT MATERIALS IN CONFLICT WITH EXISTING OR PROPOSED SITE FEATURES.
8. ROOT BARRIERS SHALL BE PROVIDED FOR ADJACENT TO ALL PROPOSED UTILITIES, SEE ROOT BARRIER DETAIL ON THIS SHEET, PRODUCT SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS FOR ROOT CONTROL SYSTEMS, USE PRODUCT WHERE TREES ARE WITHIN TEN FEET (10') OR LESS OF HARDSCAPE SURFACES OR UTILITIES INCLUDING BUT NOT LIMITED TO CURBS, SIDEWALKS, STEPS, ROADWAYS, WATER & SEWER LINES, SMALL TREES THAT TYPICALLY MATURE AT 18' HEIGHT OR LESS REQUIRE ROOT BARRIERS WHERE SMALL TREES ARE WITHIN SIX FEET (6') OR LESS OF HARDSCAPE SURFACES OR UTILITIES, EXISTING TREES TO BE PRESERVED (THAT ARE NOT WITHIN TEN FEET (10') OF ANY NEW UTILITIES) DO NOT REQUIRE ROOT BARRIERS, ROOT BARRIERS ARE NOT REQUIRED WHERE PROPOSED TREES ARE LOCATED ADJACENT TO D-TYPE CURBING. THE USE OF ROOT BARRIERS SHALL BE MINIMUM 8' OVERALL LENGTH FROM THE CENTER OF THE TRUNK PARALLEL TO LINEAR FEATURES TO BE PROTECTED FOR SMALL TREES, OR MINIMUM 10' OVERALL LENGTH FROM THE CENTER OF THE TRUNK FOR MEDIUM TO LARGE MATURING SHADE TREES, MINIMUM LENGTHS OF ROOT BARRIER PRODUCTS MAY BE INCREASED BASED ON LENGTH GRAPHICALLY DEPICTED ON PLAN, OR AT THE DISCRETION OF THE LANDSCAPE INSPECTOR, IN PARKING LOT ISLANDS ONLY, THE ROOT BARRIER LENGTH SHALL BE PROVIDED FOR THE FULL LENGTH OF FEATURE (UTILITY, STRUCTURE, OR PAVEMENT) TO BE PROTECTED.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FINAL GRADING OF ALL ASSOCIATED PLANTING AREAS, AFTER FINAL GRADE, AREA TO BE RAKED TO 6" DEPTH AND ALL ROCK AND FOREIGN INORGANIC MATERIALS REMOVED AND DISPOSED OF PROPERLY OFF-SITE.
10. ALL PLANTING HOLES TO BE HAND DUG EXCEPT WHERE MACHINE DUG HOLES WILL NOT ADVERSELY AFFECT OR DAMAGE UTILITIES OR IMPROVEMENTS. ALL TRENCES & EXCAVATION REQUIRED FOR INSTALLATION OF UNDERGROUND UTILITIES OR IRRIGATION EQUIPMENT ADJACENT TO EXISTING TREES & VEGETATION TO BE PRESERVED SHALL BE HAND-DUG CAREFULLY AS FAR FROM THE TRUNK AS POSSIBLE.
11. NO PLUNGING OF ANY TREE OR PALM WILL BE ACCEPTED. TRUNK FLARE SHALL BE SET 1-2" ABOVE FINISH GRADE FOR ALL TREES & PALMS. ALL PLANTS TO BE PLANTED AT THE NURSERY GRADE OR SLIGHTLY HIGHER.
12. CONTRACTOR SHALL STAKE & GUY ALL TREES AND PALMS AT TIME OF PLANTING AS PER THE APPROPRIATE DETAIL. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND/OR REPAIR OF ALL STAKING AND GUYING DURING WARRANTY PERIOD AND REMOVAL & DISPOSAL OF STAKING AFTER ESTABLISHMENT PERIOD.
13. FERTILIZER FOR GRASS AREAS SHALL BE NPK 16-4-8 @ 12.5 LBS/1000 S.F. OR 545 LBS/ACRE. NITROGEN 50% SLOW RELEASE FORM & FERTILIZER TO INCLUDE SECONDARY MICRONUTRIENTS.
14. WATERING: ALL PLANT MATERIAL SHALL BE WATERED IN AT TIME OF PLANTING IN ACCORDANCE WITH STANDARD NURSERY PRACTICES. IN ADDITION, CONTRACTOR WILL CONTINUE WATERING OF PLANT MATERIAL UNTIL SUBSTANTIAL COMPLETION AND AS NEEDED THEREAFTER FOR A PERIOD OF 2 MONTHS.
15. ALL PLANTS AND PLANTING MATERIALS INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-)STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTABILITY BY THE OWNER OR OWNER'S DESIGNEE. MAINTENANCE AFTER THE CERTIFICATION OF AN ACCEPTABILITY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THIS SECTION. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE TO COVER LANDSCAPE AND IRRIGATION MAINTENANCE FOR A PERIOD OF NINETY (90) CALENDAR DAYS COMMENCING AFTER ACCEPTANCE
16. GUARANTEE: ALL NEW PLANT MATERIAL SHALL BE GUARANTEED FOR 1 YEAR FROM TIME OF FINAL ACCEPTANCE OF PROJECT. ANY PLANT MATERIAL NOT IN A HEALTHY GROWING CONDITION WILL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER WITHIN 10 DAYS OF NOTIFICATION. FOR ALL REPLACEMENT PLANT MATERIAL, THE WARRANTY PERIOD SHALL BE EXTENDED AN ADDITIONAL 45 DAYS BEYOND THE ORIGINAL WARRANTY PERIOD. ALL TREES THAT LEAN OR ARE BLOWN OVER, CAUSED BY WINDS LESS THAN 75 MPH, WILL BE RE-SET AND BRACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. FINAL INSPECTION BY OWNER OR THEIR DESIGNEE AT THE END OF THE 1 YEAR GUARANTEE PERIOD SHALL INCLUDE PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY PLANTS NOT MEETING THE CRITERIA OF HEALTHY, VIGOROUS, AND THRIVING AT THIS TIME, AND THAT HAVE NOT ALREADY BEEN REPLACED PREVIOUSLY UNDER SAID WARRANTY, SHALL BE SUBJECT TO THE SAME ONE (1) YEAR GUARANTEE (OR AS SPECIFIED BY THE OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.
17. THE SUCCESSFUL BIDDER SHALL FURNISH TO THE OWNER A UNIT PRICE BREAKDOWN FOR ALL MATERIALS.
18. NO PLANT MATERIAL WILL BE ACCEPTED SHOWING EVIDENCE OF CABLE, CHAIN MARKS, EQUIPMENT SCARS, OR OTHERWISE DAMAGED. PLANT MATERIAL WILL NOT BE ACCEPTED WHEN THE BALL OF EARTH SURROUNDING ITS ROOTS HAS BEEN CRACKED, BROKEN OR OTHERWISE DAMAGED.
19. ROOT-PRUNE ALL NEW TREES A MINIMUM OF (60) DAYS PRIOR TO PLANTING.
20. ALL LANDSCAPED AREAS WILL BE IRRIGATED BY AN UNDERGROUND, AUTOMATIC, RUST-FREE IRRIGATION SYSTEM PROVIDING 100% COVERAGE AND MINIMUM 50% SPRAY OVERLAP. THE SYSTEM SHALL BE MAINTAINED IN GOOD WORKING ORDER AND DESIGNED TO MINIMIZE WATER ON IMPERVIOUS SERVICES AND NOT OVERSPRAY WALKWAYS, A RAIN SENSOR DEVICE IS REQUIRED BY FL LAW & SHALL BE OPERATIONAL TO OVERRIDE THE IRRIGATION CYCLE OF THE SYSTEM WHEN ADEQUATE RAINFALL HAS OCCURRED.
21. ALL PLANT MATERIAL PLANTED WITHIN THE SIGHT DISTANCE TRIANGLE AREAS (SEE PLAN) SHALL PROVIDE UNOBSTRUCTED CROSS-VISIBILITY AT A HORIZONTAL LEVEL BETWEEN 30 INCHES AND 8 FEET ABOVE ADJACENT STREET GRADE.
22. NO CANOPY TREES SHALL BE PLANTED WITHIN 12 FEET OF A LIGHT POLE. NO PALM SPECIES SHALL BE PLANTED WITHIN 6 FEET OF A LIGHT POLE.
23. TREE PROTECTION BARRICADES SHALL BE PROVIDED BY LANDSCAPE CONTRACTOR AROUND EXISTING TREES THAT MAY BE IMPACTED BY THE PROPOSED CONSTRUCTION. PRIOR TO ANY CONSTRUCTION A TREE PROTECTION BARRICADE INSPECTION SHALL BE CONDUCTED BY THE LANDSCAPE ARCHITECT, OWNER OR GOVERNING MUNICIPALITY. REFER TO LANDSCAPE DETAIL FOR TREE PRESERVATION BARRICADE FENCING.
24. IN ALL PEDESTRIAN AREAS, ALL TREES AND PALMS SHALL BE MAINTAINED TO ALLOW FOR CLEAR PASSAGE AT AN 8 FOOT CLEAR TRUNK.
25. ALL LANDSCAPE MATERIAL SHALL BE SETBACK A MINIMUM OF 4' FROM ANY FIRE HYDRANT.
26. MULCH SHALL BE FROM SHREDDED WOOD DERIVED FROM MELALEUCA OR OTHER INVASIVE TREE SPECIES AND SHALL BE STERILIZED TO EFFECTIVELY ELIMINATE ALL SEEDS, SPORES, ETC. AND RENDER THEM BARREN. MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT AND APPLIED AT A DEPTH OF THREE INCHES (3"). MULCH IS TO BE KEPT 2-3" FROM THE STEM OF ALL GROUNDCOVERS & 3-6" FROM THE TRUNK OF ALL TREES & PALMS. MULCH SHALL BE GRADE 'B' SHREDDED, AND SHALL BE APPLIED EVENLY AND SMOOTH TO PLANTED AREAS. NO RED OR COLORED MULCH SHALL BE ACCEPTED UNLESS SPECIFIED ACCORDINGLY. NO CYPRESS MULCH OR PINE BARK SHALL BE USED.
27. PLANTINGS SHALL BE INSTALLED IN COMPLIANCE WITH ALL EXISTING CODES AND APPLICABLE DEED RESTRICTIONS. WHERE DISCREPANCIES EXIST, JURISDICTIONAL CODES, STANDARDS, & REGULATIONS SHALL GOVERN.
28. ALL ABOVE GROUND EQUIPMENT SHALL BE VISUALLY SCREENED A MIN. OF 6" ABOVE THE TOP OF EQUIPMENT. BACKFLOW PREVENTERS SHALL BE PAINTED BLACK.

GENERAL EXISTING TREE NOTES:

1. TREE PROTECTION BARRICADES SHALL BE PROVIDED BY LANDSCAPE CONTRACTOR AROUND EXISTING TREES THAT MAY BE IMPACTED BY THE PROPOSED CONSTRUCTION. PRIOR TO ANY CONSTRUCTION A TREE PROTECTION BARRICADE INSPECTION SHALL BE CONDUCTED BY THE LANDSCAPE ARCHITECT, OWNER OR GOVERNING MUNICIPALITY. REFER TO LANDSCAPE DETAIL FOR TREE PRESERVATION BARRICADE FENCING. DURING PERIODS OF DEVELOPMENT & CONSTRUCTION, THE AREAS WITHIN THE DRIP-LINE OF PRESERVED TREES SHALL BE MAINTAINED AT THEIR ORIGINAL GRADE WITH PERVIOUS LANDSCAPE MATERIAL. WITHIN THESE AREAS, THERE SHALL BE NO TRENCHING OR CUTTING OF ROOTS, EXCEPT WHERE NECESSARY DUE TO PROPOSED CONSTRUCTION; NO FILL, COMPACTION, OR REMOVAL OF SOIL; & NO USE OF CONCRETE, PAINT, CHEMICALS, OR OTHER FOREIGN SUBSTANCES.
2. ALL ROOT-PRUNING & CANOPY TRIMMING ACTIVITIES SHALL BE CONDUCTED UNDER THE SUPERVISION OF AN ISA CERTIFIED ARBORIST UTILIZING BEST MANAGEMENT PRACTICES TO ENSURE VIABILITY OF EXISTING TREES; NO TREE CANOPY SHALL BE TRIMMED BY MORE THAN 25%, ALL TREES TO REMAIN SHALL BE STRUCTURALLY PRUNED ANY NECESSARY TREE TRIMMING SHALL BE IN ACCORDANCE WITH THE JURISDICTIONAL PRUNING STANDARDS PRIOR TO ANY CONSTRUCTION WORK TAKING PLACE.
3. ROOT-PRUNE ALL TREES IN CONSTRUCTION AREA FOR THIS SITE A MINIMUM OF (6) WEEKS PRIOR TO ANY CONSTRUCTION OR INSTALLATION OF UTILITIES, TRENCHES FOR PROPOSED UTILITIES SHALL BE HAND DUG AS FAR FROM THE TRUNK OF EXISTING TREES TO REMAIN AS POSSIBLE.
4. LIQUIDATED DAMAGES SHALL BE ASSESSED TO THE CONTRACTOR FOR TREES SPECIFIED TO BE PRESERVED THAT DIE OR ARE DAMAGED AS A RESULT OF IMPROPER TREE PROTECTION PROCEDURES &/OR CONSTRUCTION OPERATIONS. TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF ONE HUNDRED DOLLARS ($100) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY PERCENT (20%) PER INCH OVER FOUR INCHES (4") CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES, OR AS MAY BE REQUIRED BY THE REGULATING GOVERNMENT AGENCY, WHICHEVER IS GREATER; CALIPER SHALL BE MEASURED AT BREAST HEIGHT OR FOUR FEET (4') ABOVE SURROUNDING GROUND.
5. IN ALL VEHICULAR USE AREAS, ALL TREES SHALL BE PRUNED & MAINTAINED TO ALLOW FOR CLEAR PASSAGE AT AN 8.5 FT HEIGHT, EXISTING TREES ADJACENT TO VEHICULAR USE AREAS MAY BE TRIMMED UP TO 13.5 FT ABOVE VEHICULAR USE AREAS.
6. ROOT BARRIERS SHALL BE PROVIDED FOR ADJACENT TO ALL PROPOSED UTILITIES, SEE ROOT BARRIER DETAIL ON THIS SHEET.
7. ALL INVASIVE EXOTIC PLANT MATERIALS SHALL BE REMOVED & ERADICATED FROM THE ENTIRE SITE & ADJACENT RIGHT-OF-WAYS IN PERPETUITY PRIOR TO FINAL LANDSCAPE CERTIFICATION. PERPETUAL MAINTENANCE IS REQUIRED TO PROHIBIT THE REESTABLISHMENT OF INVASIVE EXOTIC SPECIES THROUGHOUT THE SITE & WITHIN ALL PRESERVATION & RESTORATION AREAS.
8. ALL TREES SCHEDULED TO BE REMOVED OR THAT HAVE BEEN PREVIOUSLY REMOVED & HAVE REMAINING STUMPS SHALL BE CUT DOWN, STUMP GROUND, & SHALL HAVE ALL ROOTS REMOVED
9. DURING LAND ALTERATION & CONSTRUCTION ACTIVITIES, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIALS, MACHINERY, OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIPLINE OF A TREE TO REMAIN UNLESS OTHERWISE APPROVED BY THE JURISDICTION
10. UNLESS OTHERWISE NOTED, ALL SHRUBS, ACCENT PLANTS, & GROUNDCOVERS SHALL BE REMOVED FROM CONSTRUCTION AREA, EXCEPT NATIVE PLANTS IN PRESERVATION AREAS
11. VIABLE & ARABLE WELL DRAINED NATIVE SOILS SHALL BE LAB TESTED, STOCKPILED, AMENDED IF NECESSARY, & REUSED BENEATH IMPORTED TOPSOILS IN LANDSCAPE AREAS

IRRIGATION SCHEDULE FOR NEW TREES BASED ON UF/IFAS ENH857

Trunk diameter of tree	Irrigation schedule for vigor*	Irrigation schedule for survival
< 2"	Daily for 2 weeks, every other day for 2 months, then weekly until established.	Twice weekly for 2-3 months.
2" to 4"	Daily for 1 month, every other day for 3 months, then weekly until established.	Twice weekly for 3-4 months.
Over 4"	Daily for 6 weeks, every other day for 5 months, then weekly until established.	Twice weekly for 4-5 months.

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DETAILS AND NOTES
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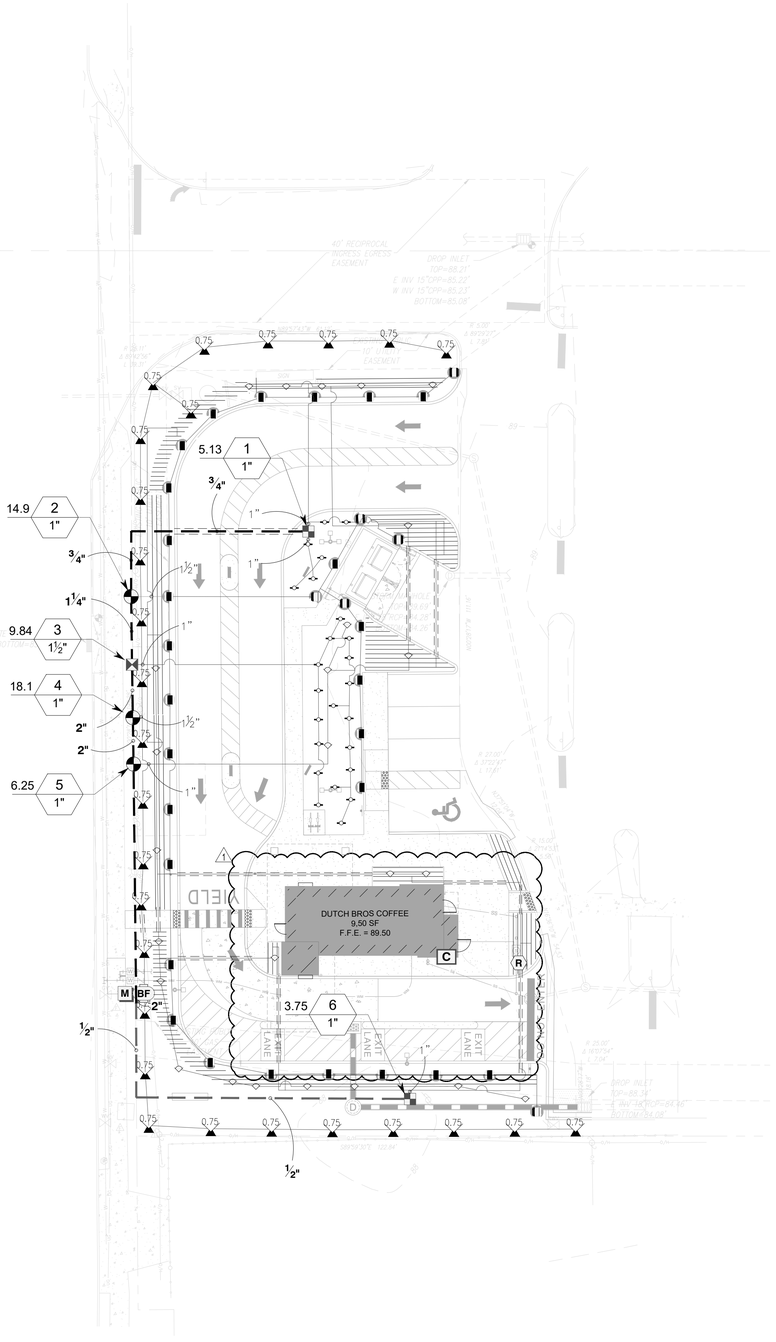
ORLANDO, FL 32807
CITY OF ORLANDO

CHERYL W. CAMPBELL
LICENSE NO. 0001786

PLAN STATUS

DATE	DESCRIPTION
AR DESIGN	GD DRAWN / CWC CHKD
SCALE:	AS SHOWN
JOB No.	011291-01-001
DATE:	April, 2023
FILE:	011291-01-001-LANDSCAPE PLAN
SHEET	L-2.0



NOTE:

MAINLINE, LATERAL LINES, CONTROL VALVES, AND RELATED EQUIPMENT SHOWN WITHIN PAVING FOR CLARITY ONLY; INSTALL WITHIN PERVIOUS AREA AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES TYP. CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
LCS SST RCS	Rain Bird R-VAN-STRIP 1812-SAM-P45 Shrub Rotary, 5'x15' (LCS and RCS), 5'x30' (SST) Hand Adjustable Multi-Stream Rotary w/ 1800 shrub spray body on 12" pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2" NPT Female Threaded Inlet.	33	45
1401 1402 1404 1408	Rain Bird 1800-1400 Flood 1401 Fixed flow rate (0.25-2.0GPM), full circle bubbler, 1/2" FIPT.	25	30

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS
0.75	Rain Bird 3504-PC 0.75 Turf Rotor, 4" Pop-Up. Adjustable and Full Circle.	27	35	0.67	17'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird XCZ-100-PRB-COM Wide Flow Drip Control Kit for Commercial Applications. 1" Ball Valve with 1" PESB Valve and 1" Pressure Regulating 40psi Quick-Check Basket Filter. 0.3gpm to 20gpm.	2
	Rain Bird XCZ-150-LCS High Flow Control Zone Kit, for Large Commercial Drip Zones. 1-1/2in. PEB Globe Valve with single 1-1/2in. Pressure Regulating 40psi Quick-Check Basket Filter. Flow range: 15-62 GPM.	1
5 7 10 12 18 24	Rain Bird EMT-6XERI w/ PC Module Multi-Outlet Emitter with 6 PC Modules. Flow rate: 5 GPH=light brown; 7 GPH=violet; 10 GPH=green; 12 GPH=dark brown; 18 GPH=white; 24 GPH=orange.	24
	Area to Receive Dripline Rain Bird XFD-06-18 XFD On-Surface Pressure Compensating Landscape Dripline. 0.6 GPH emitters at 18" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. UV Resistant. Specify XF insert fittings.	1,368 l.f.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird PEB 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration.	3
BF	Febco 765 1-1/2" Pressure Vacuum Breaker, brass with ball valve SOV. Install 12" above highest downstream outlet and the highest point in the downstream piping.	1
C	Rain Bird ESP4ME3 with (2) ESP-SM3 10 Station, Hybrid Modular Outdoor Controller. For Residential or Light Commercial Use. LNK WiFi Module and Flow Sensor Ready.	1
R	Rain Bird RSD-BEx Rain Sensor, with metal latching bracket, extension wire.	1
M	Water Meter 1-1/2" NEW 1-1/2" WATER METER AND 2" SERVICE LINE	1
	Irrigation Lateral Line: Polyethylene Pipe SDR-7 Polyethylene Pipe SDR-7 up to 1-1/4". Only lateral transition pipes 1" and above are indicated on the plan, with all others being 3/4" in size.	2,191 l.f.
	Irrigation Mainline: PVC Class 200 SDR 21	293.0 l.f.
	Pipe Sleeve: PVC Schedule 80	255.1 l.f.

Valve Callout
#• Valve Number
#• Valve Flow
#" Valve Size

GENERAL IRRIGATION NOTES:

1. POINTS OF CONNECTION SHALL BE A NEW 1.5" METER & 2" SERVICE LINE WITH CITY WATER CONNECTION. VERIFY THE ACTUAL LOCATION, SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
   MINIMUM PRESSURE REQUIRED 56.15 PSI
   DESIGN STATIC WATER PRESSURE 60 PSI
   MAXIMUM SYSTEM DEMAND 50 GPM
2. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBYINCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH THE CODES & STANDARDS OF THE LOCAL CITY, COUNTY, STATE, FBC APPENDIX F, NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM), NATIONAL SANITATION FOUNDATION (NSF), & THE IRRIGATION ASSOCIATION (IA) STANDARDS & CODES WITH REGARDS TO MATERIALS, EQUIPMENT, AND INSTALLATION METHODS
3. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
4. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING, ARCHITECTURAL, OR OTHER RELEVANT CONSULTANT PLANS BEFORE BEGINNING WORK. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
5. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS.
6. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.
7. INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS.
8. PLASTIC PIPE, FITTINGS, AND CONNECTIONS SHALL BE AS FOLLOWS:
   1. POLYVINYL CHLORIDE PIPE: ASTM D2241, RIGID, UNPLASTICIZED PVC, EXTRUDED FROM VIRGIN PARENT MATERIAL. PROVIDE PIPE HOMOGENEOUS THROUGHOUT AND FREE FROM VISIBLE CRACKS, HOLES, FOREIGN MATERIALS, BLISTERS, WRINKLES AND DENTS. SDR 21, CLASS 200 FOR MAINLINE, SDR 16, CLASS 160 FOR 1-1/2" AND LARGER, OR OTHERWISE SDR 7 POLYETHYLENE PIPE FOR LATERALS.
   2. POLYETHYLENE PIPE: ASTM D2239 FLEXIBLE POLYETHYLENE PIPE RATED AT 100 PSI MINIMUM WORKING PRESSURE.
   3. PVC PIPE FITTINGS: ASTM D2241 SCHEDULE 40 PVC MOLDED FITTINGS SUITABLE FOR SOLVENT WELD, SLIP JOINT RING TIGHT SEAL, OR SCREWED CONNECTIONS, FITTINGS MADE OF OTHER MATERIALS ARE NOT PERMITTED.
      A. SIZE SLIP FITTING SOCKET TAPER TO PERMIT A DRY UNSOFTENED PIPE END TO BE INSERTED NO MORE THAN HALFWAY INTO THE SOCKET. NO SADDLE AND CROSS FITTINGS.
      B. SCHEDULE 80 PVC PIPE MAY BE THREADED.
   4. INSERT FITTINGS: ASTM D2466 INSERT TYPE FITTINGS.
   5. SPRINKLER RISERS SHALL BE CUT-OFF POLYETHYLENE. HEIGHT AS REQUIRED FOR 100% COVERAGE.
   6. LOW VOLTAGE WIRE CONNECTORS SHALL BE SOCKET SEAL TYPE WIRE CONNECTORS AND 3M DBY DIRECT BURY SPLICE KIT.
9. ACTUAL LOCATION FOR THE INSTALLATION OF THE BACKFLOW PREVENTER AND THE AUTOMATIC CONTROLLER IS TO BE DETERMINED IN THE FIELD BYTHE OWNER'S AUTHORIZED REPRESENTATIVE.
10. CONTRACTOR IS TO PROVIDE AN ADDITIONAL PILOT WIRE FROM CONTROLLER ALONG ENTIRETY OF MAIN LINE TO THE LAST RCV ON EACH AND EVERY LEG OF MAIN LINE. LABEL SPARE WIRES AT BOTH ENDS.
11. MAINLINE, LATERAL LINES, CONTROL VALVES, AND RELATED EQUIPMENT SHOWN WITHIN PAVING FOR CLARITY ONLY; INSTALL WITHIN PERVIOUS AREA AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES TYP.CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.
12. ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SCHEDULE 80 PVC SLEEVING AT LEAST TWICE THE DIAMETER OF THE PIPE CARRIED. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING.
13. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHERE POSSIBLE. ALL QUICK COUPLER AND REMOTE CONTROL VALVES TO BE INSTALLED AS SHOWN ON THE INSTALLATION DETAILS. INSTALL ALL QUICK COUPLER AND REMOTE CONTROL VALVES WITHIN 18" OF HARDSCAPE.
14. ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDINGS, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
15. CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO PROVIDE 100% COVERAGE WITH MIN. 50% OVERLAP TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR, INCLUDING BUT NOT LIMITED TO LIGHT POLES, FIRE HYDRANTS, ETC. VERIFY ALL HEAD LAYOUT WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.
16. CONTROLLER IS AS SPECIFIED, PRIOR TO STARTING WORK, CONTRACTOR TO VERIFY CONDITION AND FINAL LOCATION OF CONTROLLER AND ELECTRICAL POC SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE.
17. MANUFACTURERS SPECIFICATIONS & PROPER GROUNDING TECHNIQUES SHALL BE ACHERED TO FOR GROUNDING THE CONTROLLER AND RELATED EQUIPMENT. A PROPERLY INSTALLED GROUNDING SYSTEM SHOULD MAINTAIN A MAXIMUM GROUND RESISTANCE OF 10 OHMS, OR LESS. MEASURE FOR PROPER GROUND AT LEAST ONCE ANNUALLY, AND NECESSARY ADJUSTMENTS MADE TO COMPLY WITH MANUFACTURER SPECIFICATIONS. INSPECT THE GROUNDING SYSTEM'S CLAMPED CONNECTIONS TO THE CONTROLLER ONCE A YEAR TO MAKE SURE THEY ARE SECURE AND CORROSION-FREE.
18. INSTALLER IS REQUIRED TO CONDUCT FINAL TESTING & ADJUSTMENT TO ACHIEVE DESIGN SPECIFICATIONS, FREE OF LEAKS, PRIOR TO COMPLETION OF THE SYSTEM & ACCEPTANCE BY THE OWNER OR OWNER'S REPRESENTATIVE.
19. FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE OF WORK PERFORMED UNDER THE IRRIGATION CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY FURNISH AND INSTALL ANY AND ALL PARTS AND EQUIPMENT WHICH PROVE DEFECTIVE IN MATERIAL, WORKMANSHIP OR INSTALLATION AT NO ADDITIONAL COST TO THE OWNER.

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	Rain Bird XCZ-100-PRB-COM	1"	Drip Emitter	5.13	325.8	24.2	33.2	0.43 in/h
2	Rain Bird PEB	1"	Shrub Rotary	14.88	258.0	48.8	56.9	0.47 in/h
3	Rain Bird XCZ-150-LCS	1-1/2"	Area for Dripline	9.84	239.0	41.1	48.9	0.43 in/h
4	Rain Bird PEB	1"	Turf Rotor	18.09	224.1	40.2	48.0	0.56 in/h
5	Rain Bird PEB	1"	Bubbler	6.25	211.1	32.1		0.85 in/h
6	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	3.75	118.0	42.8		0.43 in/h
	Common Wire				293.0			

WATERING SCHEDULE

NUMBER	MODEL	TYPE	PRECIP	IN./WEEK	MIN./WEEK	GAL./WEEK	GAL./DAY
1	Rain Bird XCZ-100-PRB-COM	Drip Emitter	0.43 in/h	1	141	723.3	
2	Rain Bird PEB	Shrub Rotary	0.47 in/h	1	127	1,890	
3	Rain Bird XCZ-150-LCS	Area for Dripline	0.43 in/h	1	141	1,387	
4	Rain Bird PEB	Turf Rotor	0.56 in/h	1	108	1,954	
5	Rain Bird PEB	Bubbler	0.85 in/h	1	71	443.8	
6	Rain Bird XCZ-100-PRB-COM	Area for Dripline	0.43 in/h	1	140	525	
		TOTALS:			728	6,923	

CRITICAL ANALYSIS

Generated:	2023-06-21 15:57
P.O.C. NUMBER: 01	
Water Source Information:	NEW 1-1/2" WATER METER AND 2" SERVICE LINE
FLOW AVAILABLE	
Water Meter Size:	1-1/2"
Flow Available	46.27 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	60 PSI
Elevation Change:	5.00 ft
Service Line Size:	2"
Length of Service Line:	20 ft
Pressure Available:	57 PSI
DESIGN ANALYSIS	
Maximum Multi-valve Flow:	43.65 GPM
Flow Available at POC:	46.27 GPM
Residual Flow Available:	2.62 GPM
Critical Station:	2
Design Pressure:	45 PSI
Friction Loss:	1.33 PSI
Fittings Loss:	0.13 PSI
Elevation Loss:	0 PSI
Loss through Valve:	2.34 PSI
Pressure Req. at Critical Station:	48.8 PSI
Loss for Fittings:	0 PSI
Loss for Main Line:	1.43 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	2.84 PSI
Loss for Water Meter:	3.85 PSI
Critical Station Pressure at POC:	56.9 PSI
Pressure Available:	57 PSI
Residual Pressure Available:	0.08 PSI

N

0 20' 40'

GRAPHIC SCALE
1" = 20'

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LANDSCAPE PLAN
DUTCH BROS COFFEE
NEC S. GOLDENROD RD. & HWY. 408
ORLANDO, FL 32807
CITY OF ORLANDO
ORANGE COUNTY

Digitally signed by Cheryl W. Campbell
Date: 2023.06.21 11:00:17 -04'00'
REGISTERED LANDSCAPE ARCHITECT
CHERYL W. CAMPBELL
LA 0001768
STATE OF FLORIDA

Cheryl Campbell

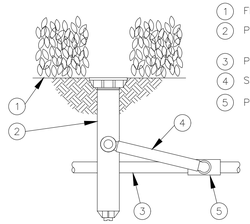
CHERYL W. CAMPBELL
LICENSE NO. 0001786

PLAN STATUS	

DATE	DESCRIPTION

AR DESIGN	GD DRAWN	CWC CHKD

SCALE: AS SHOWN
JOB No. 011291-01-001
DATE: June, 2023
FILE: IRRIGATION PLAN
SHEET L-3.0

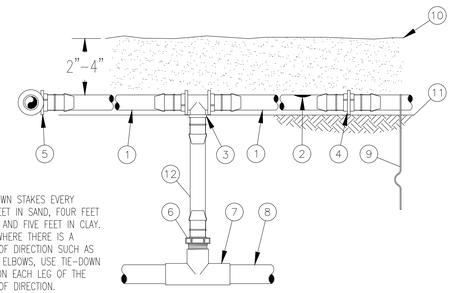


1. FINISH GRADE/TOP OF MULCH
2. POP-UP SPRAY SPRINKLER: RAIN BIRD 1806-SI
3. PVC LATERAL PIPE
4. SWING ASSEMBLY: RAIN BIRD MODEL SA 6050
5. PVC SCH 40 TEE OR ELL

NOTE:
SIDE INLET CONNECTION SHOULD NOT BE USED IN FREEZING CLIMATES.

A POP-UP SPRAY SPRINKLER 1806-SI WITH SWING PIPE

N.T.S.



NOTES:
1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.
3. SAVE YOUR HANDS. USE THE RAIN BIRD FITTINS-TOOL XF INSERTION TOOL FOR FITTING ASSEMBLY.

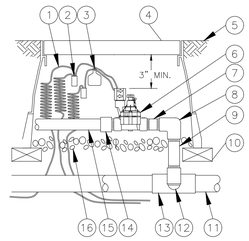
1. ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFD DRIPLINE NON-POTABLE: XFDP DRIPLINE
2. INLINE DRIP EMITTER OUTLET, SEE PLANS FOR DRIPLINE OUTLET SPACING.
3. BARB TEE 17x17x17mm RAIN BIRD XFF-TEE
4. BARB COUPLING 17x17mm RAIN BIRD XFF-COUP
5. BARB ELBOW 17x17mm RAIN BIRD XFF-ELBOW
6. BARB MALE ADAPTER 17mm X 1/2" MPT RAIN BIRD XFF-MA-050 17mm X 3/4" MPT RAIN BIRD XFF-MA-075
7. PVC TEE SxSxT
8. PVC LATERAL SUPPLY HEADER
9. TIE DOWN STAKE: RAIN BIRD TDS-050 WITH BEND (TYPICAL)
10. MULCH
11. FINISH GRADE
12. RAIN BIRD XF SERIES BLANK TUBING LENGTH AS REQUIRED

B XFD ON-SURFACE DRIPLINE RISER ASSEMBLY

12-18-2012

N.T.S.

IRRIGATION PLAN



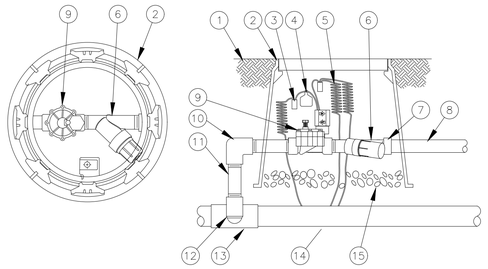
1. 30-INCH LINEAR LENGTH OF WIRE, COILED
2. WATERPROOF CONNECTION: RAIN BIRD SPLICE-1 (1 OF 2)
3. ID TAG: RAIN BIRD VID SERIES
4. VALVE BOX WITH COVER: RAIN BIRD VB-STD
5. FINISH GRADE/TOP OF MULCH
6. REMOTE CONTROL VALVE: RAIN BIRD 100-DVF
7. PVC SCH 80 NIPPLE (CLOSE)
8. PVC SCH 40 ELL
9. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
10. BRICK (1 OF 4)
11. PVC MAINLINE PIPE
12. SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
13. PVC SCH 40 TEE OR ELL
14. PVC SCH 40 MALE ADAPTER
15. PVC LATERAL PIPE
16. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

C ELECTRIC REMOTE-CONTROL VALVE DVF SERIES 100-DVF

1-09-04

N.T.S.

V-100-DVF.DWG



TOP VIEW

SIDE VIEW

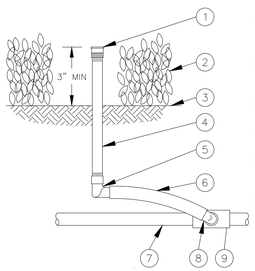
1. FINISH GRADE
2. ROUND VALVE BOX WITH COVER: RAIN BIRD VB-10RND
3. WATERPROOF CONNECTION: RAIN BIRD DB SERIES
4. VALVE ID TAG
5. 30-INCH LINEAR LENGTH OF WIRE, COILED
6. PRESSURE REGULATING FILTER: RAIN BIRD PRF-100-RBY (INCLUDED IN XCZ-100-PRF KIT)
7. PVC SCH 40 FEMALE ADAPTOR
8. LATERAL PIPE
9. REMOTE CONTROL VALVE: RAIN BIRD 100-DV (INCLUDED IN XCZ-100-PRF KIT)
10. PVC SCH 40 ELL
11. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
12. PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL)
13. PVC SCH 40 TEE OR ELL
14. PVC MAINLINE
15. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

D XCZ-100-PRF 1" CONTROL ZONE KIT IN ROUND VALVE BOX OPTION 2

1-25-10

N.T.S.

XCZ-100-PRF Option 2.dwg



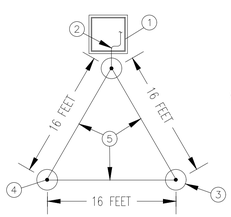
1. PRESSURE COMPENSATING FULL CIRCLE BUBBLER: RAIN BIRD 1400
2. PLANT MATERIAL
3. FINISH GRADE/TOP OF MULCH
4. UV RADIATION RESISTANT 1/2 INCH PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
5. 1/2-INCH FEMALE NPT x 0.490-INCH BARB ELBOW: RAIN BIRD MODEL SBFE-050
6. SWING PIPE, 12-INCH LENGTH:
7. PVC LATERAL PIPE
8. 1/2-INCH MALE NPT x .490-INCH BARB ELBOW: RAIN BIRD MODEL SBE-050
9. PVC SCH 40 TEE OR ELL

G PRESSURE COMPENSATING FULL-CIRCLE BUBBLER 1400 SERIES ON RISER

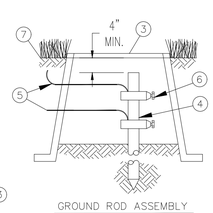
1/14/04

N.T.S.

N-1400 ON RISER.dwg



GROUND ROD LAYOUT

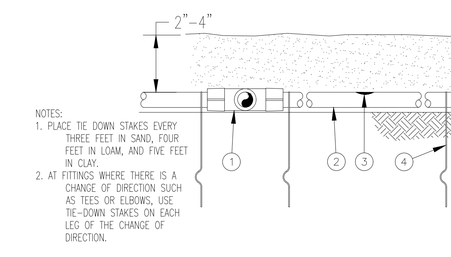


GROUND ROD ASSEMBLY

1. RAIN BIRD CONTROLLER
2. SOLID BARE COPPER WIRE (#10 AWG) FROM GROUNDING ROD TO CONTROLLER: MAKE WIRE AS SHORT AND STRAIGHT AS POSSIBLE
3. COVER GROUNDING ROD WITH 10-INCH ROUND VALVE BOX AS SHOWN
4. 5/8-INCH X 8 FT COPPER CLAD GROUNDING ROD OR GROUNDING PLATE. INSTALL RODS IN SOIL IN A TRIAGULAR PATTERN SPACED A MINIMUM OF 16 FT APART FROM EACH OTHER. GROUNDING GRID TO HAVE A RESISTANCE OF TEN (10) OHMS OR LESS
5. BARE COPPER WIRE (#10 AWG MIN.) BETWEEN GROUNDING RODS
6. GROUND ROD CLAMP OR WELDS
7. FINISH GRADE

J CONTROLLER GROUNDING GRID Y DESIGN LAYOUT

N.T.S.



NOTES:
1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

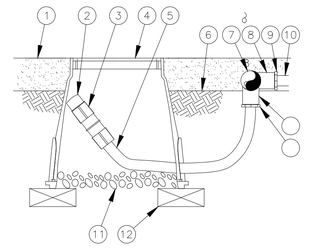
1. EASY FIT COMPRESSION TEE: RAIN BIRD MDCFTEE
2. ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFD DRIPLINE NON-POTABLE: XFDP DRIPLINE
3. INLINE DRIP EMITTER OUTLET
4. TIE DOWN STAKE: RAIN BIRD TDS-050 WITH BEND (TYPICAL)
5. MULCH
6. FINISH GRADE

E XFD ON-SURFACE DRIPLINE AT GRADE

12-18-2012

N.T.S.

IRRIGATION PLAN



NOTE:
1. ALLOW A MINIMUM OF 6-INCHES OF DRIPLINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

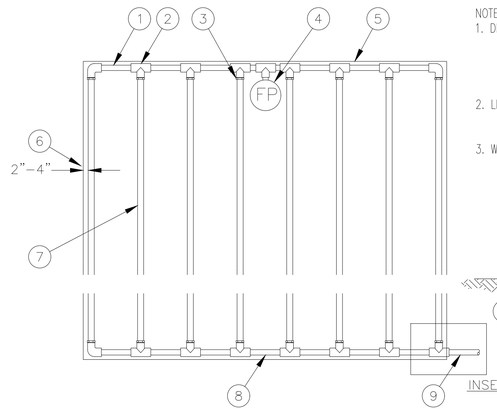
1. MULCH
2. FLUSH CAP FOR EASY FIT COMPRESSION FITTINGS: POTABLE: RAIN BIRD MDCFCAP NON-POTABLE: RAIN BIRD MDCFPCAP
3. EASY FIT COUPLING: RAIN BIRD MDCFCOUP
4. SUBTERRANEAN EMITTER BOX: RAIN BIRD SEB 7XB
5. RAIN BIRD XF BLANK TUBING
6. FINISH GRADE
7. PVC EXHAUST HEADER
8. PVC SCH 40 TEE OR EL
9. BARB X MALE FITTING: RAIN BIRD XFF-MA FITTING (TYPICAL)
10. ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFD DRIPLINE NON-POTABLE: XFDP DRIPLINE
11. 3-INCH MINIMUM DEPTH OF 3/4 WASHED GRAVEL
12. BRICK (1 OF 2)

F XFD ON-SURFACE DRIPLINE FLUSH POINT WITH EASY FIT COMPRESSION FITTINGS

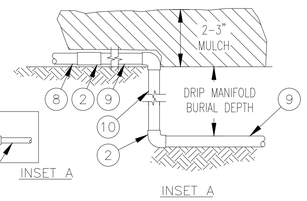
12-18-2012

N.T.S.

IRRIGATION PLAN



NOTES:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS ON RAIN BIRD WEB SITE (WWW.RAINBIRD.COM) FOR SUGGESTED SPACING.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.
3. WHEN USING 17MM INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.



INSET A

INSET A

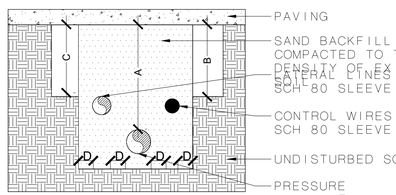
1. PVC EXHAUST HEADER
2. PVC SCH 40 TEE OR EL (TYPICAL)
3. BARB X MALE FITTING: RAIN BIRD XFF-MA FITTING (TYPICAL)
4. FLUSH POINT (TYPICAL) SEE RAIN BIRD DETAIL "XFD FLUSH POINT"
5. PERIMETER OF AREA
6. PERIMETER DRIPLINE PIPE TO BE INSTALLED 2"-4" FROM PERIMETER OF AREA
7. ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE (TYPICAL) POTABLE: XFD DRIPLINE NON-POTABLE: XFDP DRIPLINE
8. PVC SUPPLY HEADER
9. PVC DRIP MANIFOLD FROM RAIN BIRD CONTROL ZONE VALVE KIT (SIZED TO MEET LATERAL FLOW DEMAND)
10. PVC SCH 40 RISER PIPE

H XFD ON-SURFACE DRIPLINE END FEED LAYOUT

12-18-2012

N.T.S.

IRRIGATION PLAN



SECTION VIEW - N.T.S.

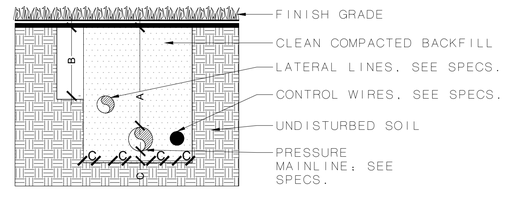
DIMENSION	A	B	C	D
1 1/2" TO 6" IN SIZE	36"	24"	24"	4"

TWICE THE DIAMETER OFF THE PIPE OR WIRE BUNDLE CARRIED

DETAIL ALSO FOR PIPE INSTALLED IN ROCK SOIL

K SLEEVE INSTALLATION

N.T.S.



SECTION VIEW - N.T.S.

DIMENSION	A	B	C
1/2" TO 2-1/2" IN SIZE	18"	12"	4"
3" TO 6" IN SIZE	24"		4"

L PIPE INSTALLATION

N.T.S.

NOTE:
WIRE CONNECTOR SHALL BE A 3M DBY-6 DIRECT BURY SPLICE KITS

KIT SHALL INCLUDE A SCOTCHLOK Y SPRING CONNECTOR, A POLYPROPYLENE TUBE AND A WATERPROOF SEALING GEL. TUBE SHALL BE SUPPLIED PRE-FILLED WITH GEL.

DIRECT BURY SPLICE KIT SHALL BE USED TO ELECTRICALLY CONNECT 2-3 #14 OR 2 #12 PRE-STRIPPED COPPER WIRES. LARGER WIRES OR GREATER QUANTITIES OF WIRES SHALL REQUIRE A LARGER APPROVED WIRE CONNECTION.

I WIRE CONNECTION

N.T.S.

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Certificate of Authorization License No. 30462

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ORANGE COUNTY

CITY OF ORLANDO

DETAILS AND NOTES
DUTCH BROS COFFEE
NEC S. GOLDENROD RD. & HWY. 408
ORLANDO, FL 32807

CHERYL W. CAMPBELL
LICENSE NO. 0001786

PLAN STATUS

DATE	DESCRIPTION

AR DESIGN	GD DRAWN	CWC CHKD

SCALE: AS SHOWN

JOB No. 011291-01-001

DATE: April, 2023

FILE: IRRIGATION PLAN

SHEET L-4.0

CAD file name: V:\011291 - ADS\011291-01-001 (ENG) - Dutch Bros - Orlando, FL\Engineering\Landscape\IRRIGATION PLAN.dwg, GDAMUS 4/4/2023

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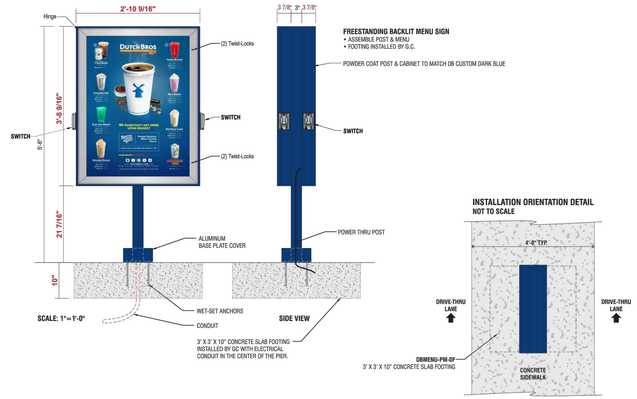
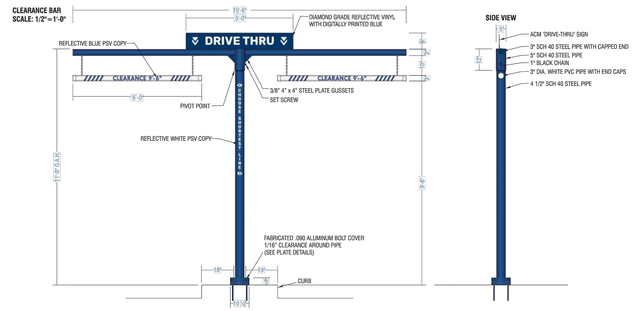
NOTES:

1. MONUMENT, MENU AND DIRECTIONAL SIGNS BY OTHERS.
2. ALL SIGN FOOTINGS ARE TO BE VERIFIED BY LICENSED STRUCTURAL ENGINEER AND FOR LOCAL CODES SOIL CONDITIONS.
3. ALL SIGN FOOTINGS BY GENERAL CONTRACTOR. CONTRACTOR TO COORDINATE WITH SIGN VENDOR FOR HARDWARE.



6 MENU BOARD - DOUBLE, BY OTHERS - REFERENCE ONLY

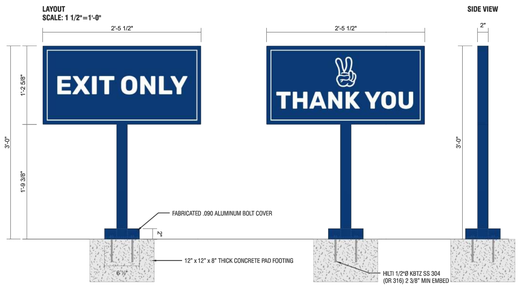
NOT TO SCALE



STEEL POLE SUPPORT STRUCTURE WITH FABRICATED .090 ALUMINUM BOLT COVER. PAINT DB CUSTOM DARK BLUE.
REFLECTIVE WHITE PSV COPY APPLIED TO VERTICAL POLE.
3" DIA. WHITE PVC CLEARANCE BAR WITH END CAPS AND 280-75 REFLECTIVE BLUE PSV TEXT & STRIPES.
HANG WITH BLACK CHAIN SECURED TO BOTTOM OF POLE STRUCTURE.
INCLUDE ONE SHEET REFLECTIVE VINYL NUMBERS MASKED FOR FIELD INSTALLATION.
CLEARANCE NUMBERS TO BE FIELD MEASURED AND APPLIED. MEASURE FROM ASPHALT TO BOTTOM OF OVERHANG MINUS 8".
ACM 'DRIVE-THRU' SIGN WITH DIAMOND GRADE REFLECTIVE VINYL WITH DIGITALLY PRINTED BLUE.
DIAMOND GRADE REFLECTIVE WHITE VINYL WITH DIGITALLY PRINTED PMS 541 C BLUE BACKGROUND.
INSTALL STEEL POLE PLATE-MOUNTED WITH LEVELING NUTS ONTO G.C. PROVIDED FOOTING.

3 CLEARANCE BAR BY OTHERS - REFERENCE ONLY

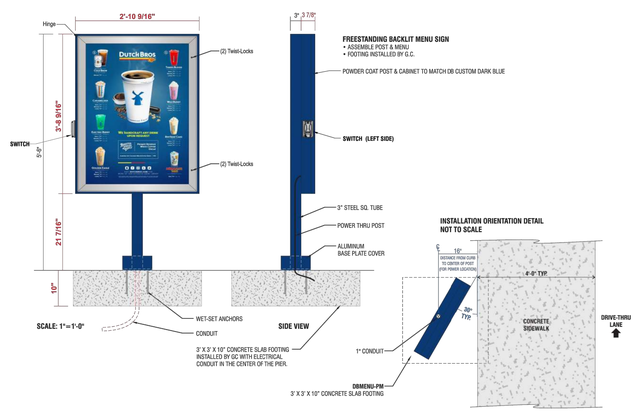
NOT TO SCALE



DIAMOND GRADE REFLECTIVE WHITE VINYL WITH DIGITALLY PRINTED PMS 541 C BLUE BACKGROUND
2" X 2" SQUARE TUBE ALUMINUM FRAME & POST WITH ALUMINUM FACES & 3/8" X 6" X 6" PLATE
FABRICATED .090 ALUMINUM BOLT COVER
PAINT PMS 541 C
INSTALL PLATE-MOUNT SIGN WITH HILTI KWIK BOLTS
PAD FOOTING INSTALLED BY GC

9 DIRECTIONAL SIGN BY OTHERS - REFERENCE ONLY

NOT TO SCALE



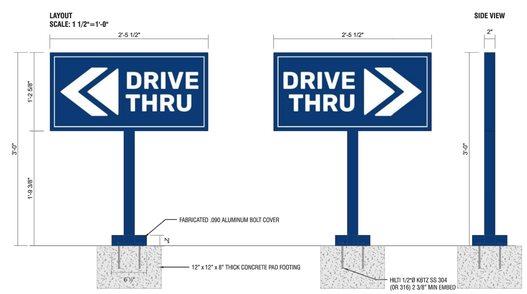
5 MENU BOARD - SINGLE, BY OTHERS - REFERENCE ONLY

NOT TO SCALE

FABRICATED ALUMINUM CABINET PAINTED DB CUSTOM GREY.
BACKED-UP WHITE ACRYLIC LETTERS.
1ST SURFACE 230-015 YELLOW, 230-33 RED, & 230-127 INTENSE BLUE PSV.
WHITE LED ILLUMINATION.
FABRICATED ALUMINUM SKIRT WITH MEDIUM TEXTURED FINISH PAINTED DB CUSTOM DARK BLUE.
4" PAINTED REVEAL PAINTED DB CUSTOM DARK BLUE, SATIN FINISH.

2 MONUMENT SIGN BY OTHERS - REFERENCE ONLY

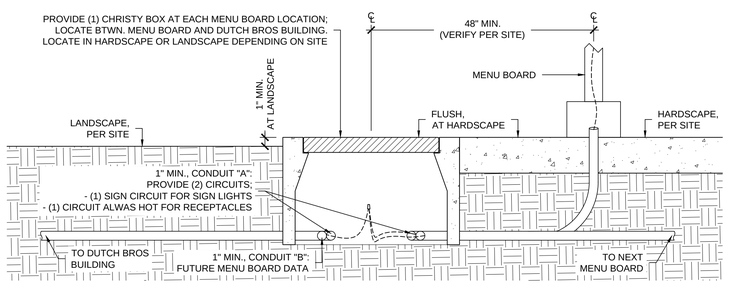
NOT TO SCALE



DIAMOND GRADE REFLECTIVE WHITE VINYL WITH DIGITALLY PRINTED PMS 541 C BLUE BACKGROUND
2" X 2" SQUARE TUBE ALUMINUM FRAME & POST WITH ALUMINUM FACES & 3/8" X 6" X 6" PLATE
FABRICATED .090 ALUMINUM BOLT COVER
PAINT PMS 541 C
INSTALL PLATE-MOUNT SIGN WITH HILTI KWIK BOLTS
PAD FOOTING INSTALLED BY GC

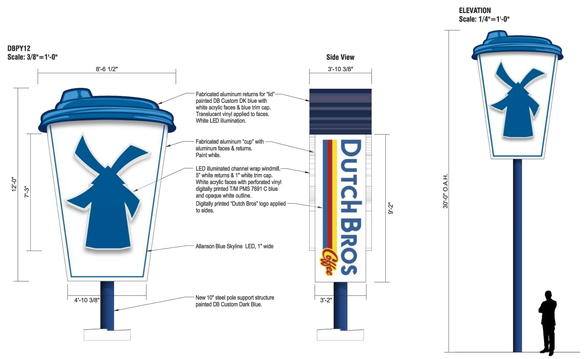
8 DIRECTIONAL SIGN BY OTHERS - REFERENCE ONLY

NOT TO SCALE



4 MENU BOARD & CHRISTY BOX DETAIL - REFERENCE ONLY

NOT TO SCALE



1 PYLON SIGN PLAN BY OTHERS - REFERENCE ONLY

NOT TO SCALE

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DUTCH BROS Coffee

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STATE OF FLORIDA
STEVEN DWIGHT PRATT
AR102401
REGISTERED ARCHITECT
4.6.2023

EXPIRES: 04.28.2025
Steven D. Pratt, AIA, NCARB
Florida License No.:
AR102401

CDG PROJECT NUMBER:
202202-037

Project No: FL0102
Dutch Bros Coffee - New Freestanding Store
South Goldenrod
Orlando, Florida
for: Accelerated Aquisitions, LLC
2415 E Camelback Road, Suite 400
Phoenix, Arizona 85016

DB2550-_A2

ISSUED FOR REVIEW: 03.20.2023

REV:	DATE:	DESCRIPTION:

SHEET NAME:

SITE SIGNAGE DETAILS

SHEET NUMBER:

SP1.1

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DocuSign Envelope ID: C6E836B9-5555-4CA8-821B-3A1C156321D1

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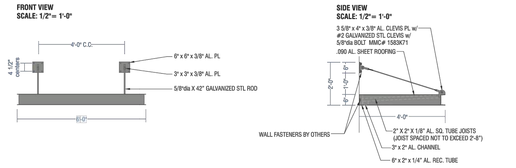
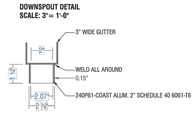
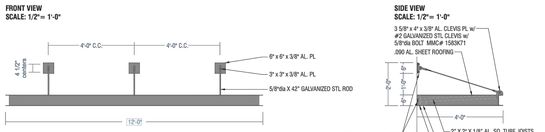


6" ALUMINUM C-CHANNEL FRONT & SIDES, WITH FLANGE POINTING OUT. (C6 x 2.83)
.090 ALUMINUM SHEET ROOFING MOUNTED INSIDE C-CHANNEL & DRAINAGE GUTTER CHANNEL SLOPED TOWARDS BUILDING.
TURNBUCKLES, 5/8" GALVANIZED STEEL ROD SUPPORTS WITH #2 GALVANIZED STEEL CLEVIS & PIN
ATTACHED TO 8" X 6" X 3/8" ALUMINUM PLATE/BRACKET AT WALL.
PAINT ENTIRE CANOPY, BRACKETS, SUPPORTS DB CUSTOM GREY.
INSTALLATION BY G.C.
ES&A WILL ORGANIZE SHIPPING TO THE GC'S PREFERRED LOCATION ON DUTCH BROS SHIPPING ACCOUNT.

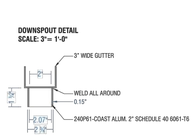


9 PRE-FAB. METAL AWNING BY OTHERS, AT REAR DOOR - REFERENCE ONLY

NOT TO SCALE

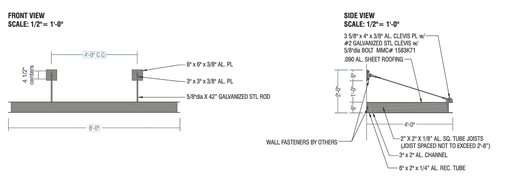


6" ALUMINUM C-CHANNEL FRONT & SIDES, WITH FLANGE POINTING OUT. (C6 x 2.83)
.090 ALUMINUM SHEET ROOFING MOUNTED INSIDE C-CHANNEL & DRAINAGE GUTTER CHANNEL SLOPED TOWARDS BUILDING.
TURNBUCKLES, 5/8" GALVANIZED STEEL ROD SUPPORTS WITH #2 GALVANIZED STEEL CLEVIS & PIN
ATTACHED TO 8" X 6" X 3/8" ALUMINUM PLATE/BRACKET AT WALL.
FABRICATED ALUMINUM .063 BREAK-FORMED RIDGE CAP FLASHING TO MOUNT WITH VHB & SILICONE OVER THE GAP BETWEEN CANOPIES.
PAINT ENTIRE CANOPY, BRACKETS, SUPPORTS DB CUSTOM GREY.
INSTALLATION BY G.C.
ES&A WILL ORGANIZE SHIPPING TO THE GC'S PREFERRED LOCATION ON DUTCH BROS SHIPPING ACCOUNT.

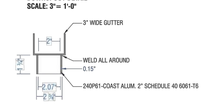


8 PRE-FAB. METAL AWNING BY OTHERS, AT "RUNNER" DOOR - REFERENCE ONLY

NOT TO SCALE

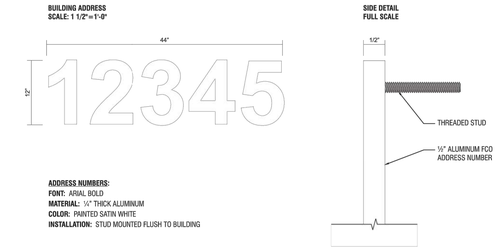


6" ALUMINUM C-CHANNEL FRONT & SIDES, WITH FLANGE POINTING OUT. (C6 x 2.83)
.090 ALUMINUM SHEET ROOFING MOUNTED INSIDE C-CHANNEL & DRAINAGE GUTTER CHANNEL SLOPED TOWARDS BUILDING.
TURNBUCKLES, 5/8" GALVANIZED STEEL ROD SUPPORTS WITH #2 GALVANIZED STEEL CLEVIS & PIN
ATTACHED TO 8" X 6" X 3/8" ALUMINUM PLATE/BRACKET AT WALL.
PAINT ENTIRE CANOPY, BRACKETS, SUPPORTS DB CUSTOM GREY.
INSTALLATION BY G.C.
ES&A WILL ORGANIZE SHIPPING TO THE GC'S PREFERRED LOCATION ON DUTCH BROS SHIPPING ACCOUNT.



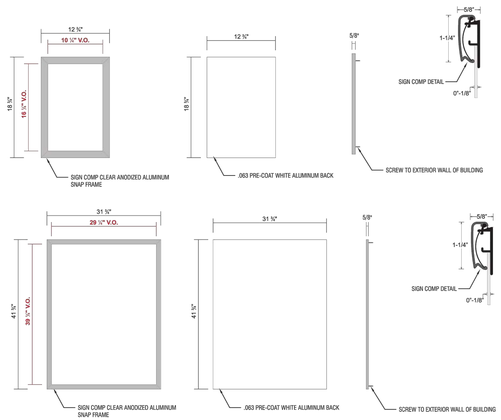
7 PRE-FAB. METAL AWNING BY OTHERS, AT DRIVE-THRU WINDOW - REFERENCE ONLY

NOT TO SCALE



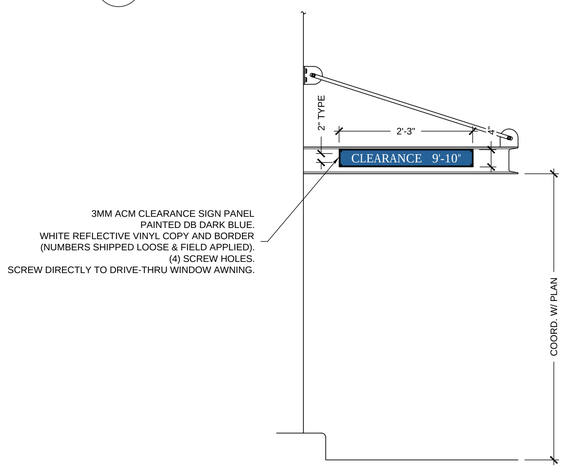
6 BUILDING ADDRESS NUMBERS BY OTHERS - REFERENCE ONLY

NOT TO SCALE



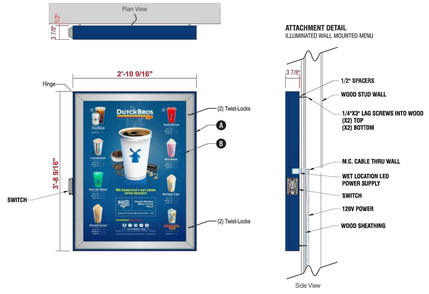
5 BUILDING SIGN, SNAP FRAMES, BY OTHERS - REFERENCE ONLY

NOT TO SCALE



4 AWNING CLEARANCE SIGN BY OTHERS AT DRIVE-THRU WINDOW - REFERENCE ONLY

NOT TO SCALE

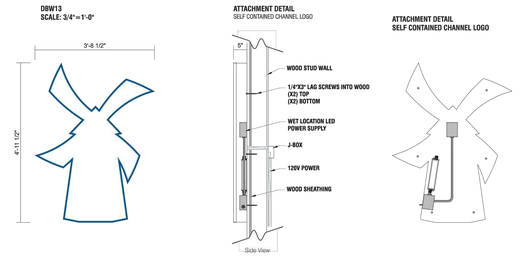


A WALL-MOUNTED, BACKLIT MENU SIGN
- PRINTED MENU PANEL NOT INCLUDED
- LED OUTDOOR LIGHT BOX
- LOCKABLE HINGED DOOR
- ALUMINUM CONSTRUCTION

B PRINTED LIGHT GUIDE PANEL
- AS SEPARATE ORDER

3 BUILDING SIGN, MENU BOARD, BY OTHERS - REFERENCE ONLY

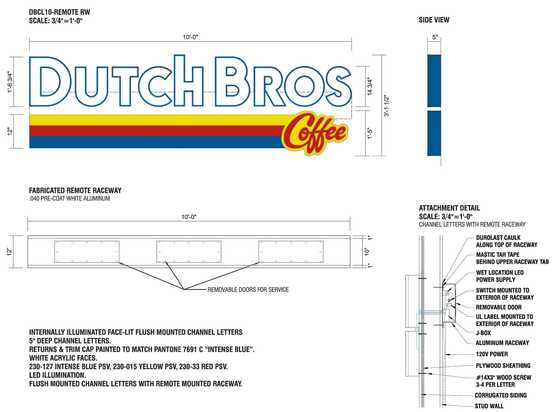
NOT TO SCALE



INTERNALLY ILLUMINATED FACE-LIT FLUSH MOUNTED CHANNEL WRAP LOGO
5" DEEP CHANNEL WRAP.
RETURNS & TRIM CAP PAINTED TO MATCH PANTONE 7691 C "INTENSE BLUE".
WHITE ACRYLIC FACE.
230-127 INTENSE BLUE PSV OUTLINE.
LED ILLUMINATION.
FLUSH MOUNTED SELF CONTAINED INSTALLATION.

2 BUILDING SIGN, WINDMILL, BY OTHERS - REFERENCE ONLY

NOT TO SCALE



INTERNALLY ILLUMINATED FACE-LIT FLUSH MOUNTED CHANNEL LETTERS
5" DEEP CHANNEL LETTERS.
RETURNS & TRIM CAP PAINTED TO MATCH PANTONE 7691 C "INTENSE BLUE".
WHITE ACRYLIC FACES.
230-127 INTENSE BLUE PSV, 230-015 YELLOW PSV, 230-33 RED PSV.
LED ILLUMINATION.
FLUSH MOUNTED CHANNEL LETTERS WITH REMOTE MOUNTED RACEWAY.

1 BUILDING SIGN, CHANNEL LETTERS, BY OTHERS - REFERENCE ONLY

NOT TO SCALE

DUTCH BROS Coffee

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STATE OF FLORIDA · STEVEN DWIGHT PRATT · LICENSE AR102401 · REGISTERED ARCHITECT · 4.6.2023

EXPIRES: 04.28.2025
Steven D. Pratt, AIA, NCARB
Florida License No.:
AR102401

CDG PROJECT NUMBER:
202202-037

Project No: FL0102
Dutch Bros Coffee - New Freestanding Store
South Goldenrod
Orlando, Florida
for: Accelerated Aquisitions, LLC
2415 E Camelback Road, Suite 400
Phoenix, Arizona 85016

DB2550-A2

ISSUED FOR REVIEW: 03.20.2023

REV:	DATE:	DESCRIPTION:

SHEET NAME:

BUILDING SIGNAGE DETAILS

SHEET NUMBER:

SP1.2

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