CITY OF GAINESVILLE
every path starts with passion
FLORIDA

PLANNING DEPARTMENT
PO BOX 490, STATION 11
GAINESVILLE, FL 32602-0490

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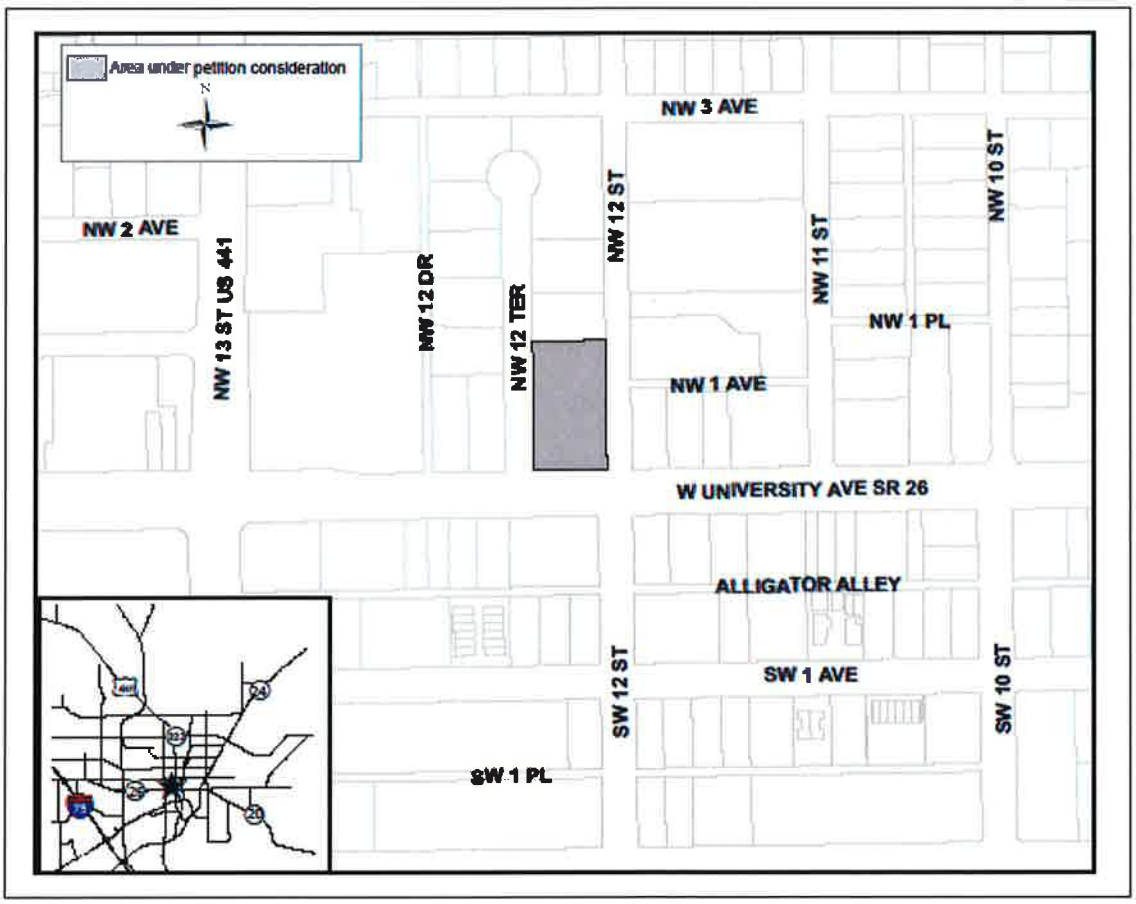
TO: City Plan Board **Item Number: 4**

FROM: Planning Department Staff **DATE: May 26, 2016**

SUBJECT: **Petition AD-16-02 SPL Razvi Enterprises, LLC, agent for McDonald's USA, LLC, owner. Minor development plan review for a fast food restaurant with a drive-through. Located at 1206 W University Avenue.**

Recommendation

Staff recommends that Petition AD-16-02 SPL be approved, subject to the conditions in Appendix E.



Description

The applicant is requesting preliminary and final approval of a minor development plan for the construction of a fast food restaurant with a drive-through. The fast food restaurant will be housed in a one-story building located on the south end of the development site and facing W University Avenue. The drive-through and off-street, surface parking area will be located on the north end of the development and to the rear of the proposed building. The drive-through will have two order lanes with menu boards. The two order lanes will merge into a single pick-up lane that will run adjacent to two service windows located on the rear wall of the proposed building. A two-directional driveway connection will provide access to the development site on NW 12th Street and NW 12th Terrace. Stormwater management facilities will be placed underground. Pedestrian amenities will include bike racks, sidewalks and striped crosswalks. Landscape material and lighting are also proposed. (See Appendix E.)

The development site is a .64 acre parcel located on the north side of West University Avenue (SR 26), between NW 12th Street and NW 12th Terrace. A tax parcel containing a single-story, residential structure abuts on the north. W. University Avenue (SR 26) abuts on the south. NW 12th Street abuts on the east. NW 12th Terrace abuts on the west. A 6-foot high concrete block wall is located along the northern boundary of the development site. Chain-link fence is located along the remaining sides of the development site. Vegetation on the development site consists of oak trees of various sizes, as well as shrubs and areas of overgrown grass. The majority of the development site is covered with asphalt, concrete and dirt.

The area surrounding the development site contains residential and non-residential uses that create the urban, mixed-use character of neighborhoods near the University of Florida main campus. Single-family and multi-family dwelling units within the University Heights – North Historic District are adjacent to the northern half of the development site. Eating places and a convenience store located on W. University Avenue (SR 26) are adjacent to the southern half of the development site.

The development site was formerly used to operate a Texaco gas station and regulated hazardous material facility that was demolished in 2004. It is currently classified as an inactive petroleum cleanup site with documented groundwater contamination (ACEPD #0005-00; Texaco #110-0081: FDEP #018500005). The proposed development will be analyzed to determine any impacts on the existing groundwater plume. Proper abandonment of any onsite monitoring wells will be required.

Key Issues

- The development site is currently under consideration for rezoning from UMU-2 (10-100 units/acre and up to an additional 25 units/acre by Special Use Permit) to PD (Planned Development District) to allow a restaurant with a drive-through. Second reading of the PD Ordinance is scheduled for May 19, 2016. If the requested PD rezoning is approved,

the proposed development shall be subject to the conditions and terms of the adopted PD Ordinance. (See Exhibit B-1).

- In 2014, the City allowed the development site to be used for the storage of construction equipment and materials. The City also approved a Special Use Permit (SUP), Master Plan and development plan (Petition 14-68 SUP) for the phased construction of a temporary surface parking area and a two-story commercial building on the . The SUP, which is nonrenewable, remains valid for a maximum of five (5) years from the August 28, 2014 approval date. As a result, a formal letter (see Exhibit C-1) was filed to withdraw from the City previously approved applications to build on the development site, subject to the adoption of the PD rezoning request.

Basis for Recommendation

The underlying Urban Mixed-Use 2 (UMU-2: 10 to 100 units per acre: and up to 25 additional units per acre by special use permit) land use designation will remain in effect on the development site. The proposed development is consistent with the UMU-2 land use designation because it supports the food service needs of nearby land uses and neighborhoods within close proximity to the development site. The proposed development also includes design features that are scaled to fit the character of the surrounding area and that provide transportation choices consistent with the UMU-2 land use designation.

The proposed development has been found to be consistent with the terms and conditions of the proposed PD Ordinance, except as expressed in the recommended conditions and comments of the City Technical Review Committee within Appendix C. A neighborhood workshop is not required for minor development plan review.

Respectfully submitted,

Ralph Hilliard

Ralph Hilliard
Planning Manager

Prepared by:

Bedez E. Massey

Bedez E. Massey
Planner

Table 1

Adjacent Existing Uses

North	Single-family and Multi-family dwellings
South	Vacant Commercial Building
East	Convenience Store
West	Eating Place

Adjacent Zoning and Land Use

	Land Use Category	**Zoning Category**
North	RH	RH-1
South	UMU-2	UMU-2
East	UMU-2/MUL	UMU-2/MU-1
West	UMU-2/RH	UMU-2/RH-1

List of Appendices

Appendix A Comprehensive Plan Goals, Objectives and Policies

Exhibit A-1: Future Land Use Element Policy 4.1.1

Appendix B Land Development Code

Exhibit B-1: Proposed PD Ordinance and Exhibits

Appendix C Supplemental Documents

Exhibit C-1: Letter of Request to Withdraw Previous Development Applications

Appendix D Technical Review Committee Conditions

Appendix E Development Plan

Appendix A

Comprehensive Plan Goals, Objectives and Policies

EXHIBIT
tabbies A-1

Urban Mixed-Use 1 (UMU-1: 8 -75 units per acre; and up to 25 additional units per acre by special use permit)

This category allows a mixture of residential, retail, service and office/research uses. The Urban Mixed-Use districts are distinguished from other mixed-use districts in that they are specifically established to support research and development in the physical, engineering and life sciences in close proximity to the University of Florida main campus. An essential component of the district is orientation of structures to the street and multi-modal character of the area. Retail and office uses located within this district shall be scaled to fit into the character of the area. Residential density shall be limited to 75 units per acre with provisions to add up to 25 additional units per acre by special use permit. Lots that existed on November 13, 1991 and are less than or equal to 0.5 acres in size shall be exempt from minimum density requirements. All new non single-family principal buildings shall have a minimum height of 24 feet. Building height shall be limited to 6 stories. Land development regulations shall set the appropriate densities; the distribution of uses; design criteria; landscaping, and pedestrian/vehicular access.

Urban Mixed-Use 2 (UMU-2: 10 to 100 units per acre; and up to 25 additional units per acre by special use permit)

This category allows a mixture of residential, retail, service and office/ research uses. The Urban Mixed-Use districts are distinguished from other mixed-use districts in that they are specifically established to support research and development in the physical, engineering and life sciences in close proximity to the University of Florida main campus. An essential component of the district is orientation of structures to the street and multi-modal character of the area. Retail and office uses located within this district shall be scaled to fit into the character of the area. Residential density shall be limited to 10 to 100 units per acre with provisions to add up to 25 additional units per acre by special use permit. Lots that existed on November 13, 1991 and that are less than or equal to 0.5 acres in size shall by exempt from minimum density requirements. All new non-single-family principal buildings shall have a minimum height of 24 feet. Building height shall be limited to 6 stories and up to 8 stories by special use permit. Land development regulations shall set the appropriate densities; the distribution of uses; design criteria; landscaping, and pedestrian/vehicular access. Land development regulations shall specify the criteria for the siting of public and private schools, places of religious assembly and community facilities within this category.

Office

The Office land use category identifies areas appropriate for office and residential uses. This category is intended to identify appropriate areas for professional and service uses, hospital and medical uses, compound and residential uses, and appropriate ancillary uses. Office designations shall be applied to compact office development. Residential uses in office districts shall be designed as new in-town development, mixed-use, live-work, compound use or shall accommodate existing residential development within the district. Densities shall not exceed 20 units per acre. Land development regulations shall determine the appropriate scale of uses; and the specific criteria for the siting of private schools and churches. Intensity will be controlled by adopting land development regulations that establish height limits of 5 stories or less, that require

Revision Dates and Ordinance Numbers
(See Page A-57)

Appendix B

Land Development Code

DRAFT

1/19/16

ORDINANCE NO. 150418

An ordinance of the City of Gainesville, Florida, amending the Zoning Map Atlas by rezoning approximately 0.64 acres of property that is generally located at 1206 W University Avenue, as more specifically described in this ordinance, from Urban Mixed-Use District 2 (UMU-2) to Planned Development District (PD); adopting a PD report with land development regulations; providing directions to the City Manager; providing a severability clause; providing a repealing clause; and providing an effective date.

WHEREAS, Planned Development District (PD) zoning is an entirely voluntary method for landowners or developers to submit unique proposals that are not provided for or otherwise achievable in the zoning districts established by the City of Gainesville Land Development Code; and

WHEREAS, the City Plan Board, which acts as the Local Planning Agency pursuant to Section 163.3174, Florida Statutes, held a public hearing on September 24, 2015, and voted to recommend that the City Commission approve this rezoning; and

WHEREAS, on December 3, 2015, the City Commission held a public hearing and voted to approve the petition (Petition No. PB-15-69 PDV) associated with this ordinance; and

WHEREAS, at least ten (10) days' notice has been given once by publication in a newspaper of general circulation notifying the public of this proposed ordinance and of public hearings in the City Hall Auditorium located on the first floor of City Hall in the City of Gainesville; and

WHEREAS, public hearings were held pursuant to the notice described above at which hearings the parties in interest and all others had an opportunity to be and were, in fact, heard; and

EXHIBIT

tabbies

B-1

WHEREAS, the City Commission finds that the rezoning of the subject property described herein is consistent with the City of Gainesville Comprehensive Plan.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COMMISSION OF THE CITY OF GAINESVILLE, FLORIDA:

Section 1. The Zoning Map Atlas of the City of Gainesville is amended by rezoning the following described property to Planned Development District (PD):

> See legal description attached as **Exhibit A** and made a part hereof as if set forth in full. The location of the property is shown on **Exhibit B** for visual reference. In the event of conflict or inconsistency, **Exhibit A** shall prevail over **Exhibit B**.

Section 2. The use and development of the property described in Section 1 of this ordinance shall be consistent with the City of Gainesville Comprehensive Plan and shall be regulated by the PD Report, attached to this ordinance as **Exhibit C** and made a part hereof as if set forth in full, and any applicable regulations in the City's Land Development Code. In the event of conflict or inconsistency, the order of regulatory precedence shall be as follows, with number 1 taking precedence over number 2 and so on: 1) the City's Comprehensive Plan; 2) **Exhibit C**; and 3) the City's Land Development Code.

Section 3. The development terms and conditions in this ordinance shall remain effective until such time as, upon either the City or the property owner filing a rezoning petition, the City adopts an ordinance rezoning the property described in Section 1 of this ordinance to another zoning district consistent with the Comprehensive Plan and Land Development Code.

Section 4. The City Manager or designee is authorized and directed to make the necessary changes to the Zoning Map Atlas to comply with this ordinance.

Section 5. If any word, phrase, clause, paragraph, section or provision of this ordinance or the application hereof to any person or circumstance is held invalid or unconstitutional, such finding shall not affect the other provisions or applications of this ordinance that can be given effect without the invalid or unconstitutional provision or application, and to this end the provisions of this ordinance are declared severable.

Section 6. All other ordinances or parts of ordinances in conflict herewith are to the extent of such conflict hereby repealed.

Section 7. This ordinance shall become effective immediately upon adoption.

PASSED AND ADOPTED this _____ day of _____, 2016.

_____
EDWARD B. BRADDY
MAYOR

Attest:

Approved as to form and legality:

_____
KURT M. LANNON
CLERK OF THE COMMISSION

_____
NICOLLE M. SHALLEY
CITY ATTORNEY

This ordinance passed on first reading this _____ day of _____, 2016.

This ordinance passed on second reading this _____ day of _____, 2016.

EXHIBIT "A" TO ORDINANCE NO. 150418

LEGAL DESCRIPTION

LOTS ONE (1), TWO (2), SIX (6) AND SEVEN (7), OF UNIVERSITY TERRACE, A SUBDIVISION IN THE EAST HALF OF LOT THIRTEEN (13), BROWN'S ADDITION TO THE CITY OF GAINESVILLE, BEING IN THE NORTHWEST QUARTER (NW 1/4) OF SECTION 5, TOWNSHIP 10 SOUTH, RANGE 20 EAST, AS PER PLAT THEREOF RECORDED IN PLAT BOOK "A", AT PAGE 115 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA, LESS AND EXCEPT ALL ROAD RIGHTS-OF-WAY. ALSO LESS AND EXCEPT THE FOLLOWING DESCRIBED LAND:

BEGINNING AT THE SOUTHEAST CORNER OF SAID LOT ONE (1), RUN THENCE NORTHERLY ALONG THE EAST LINE OF SAID LOT ONE (1), A DISTANCE OF 10 FEET, RUN THENCE SOUTHWESTERLY 11.18 FEET TO THE SOUTH LINE OF SAID LOT ONE (1) AT A POINT 5 FEET WESTERLY FROM THE POINT OF BEGINNING; RUN THENCE EASTERLY ALONG THE SOUTH LINE OF SAID LOT ONE (1) A DISTANCE OF 5 FEET TO THE POINT OF BEGINNING.

LEGAL DESCRIPTION PREPARED BY SURVEYOR:

A PORTION OF LOT 1 AND ALL OF LOTS 2, 6 AND 7, UNIVERSITY TERRACE, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK "A", AT PAGE 115 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA, BEING DESCRIBED AS FOLLOWS:

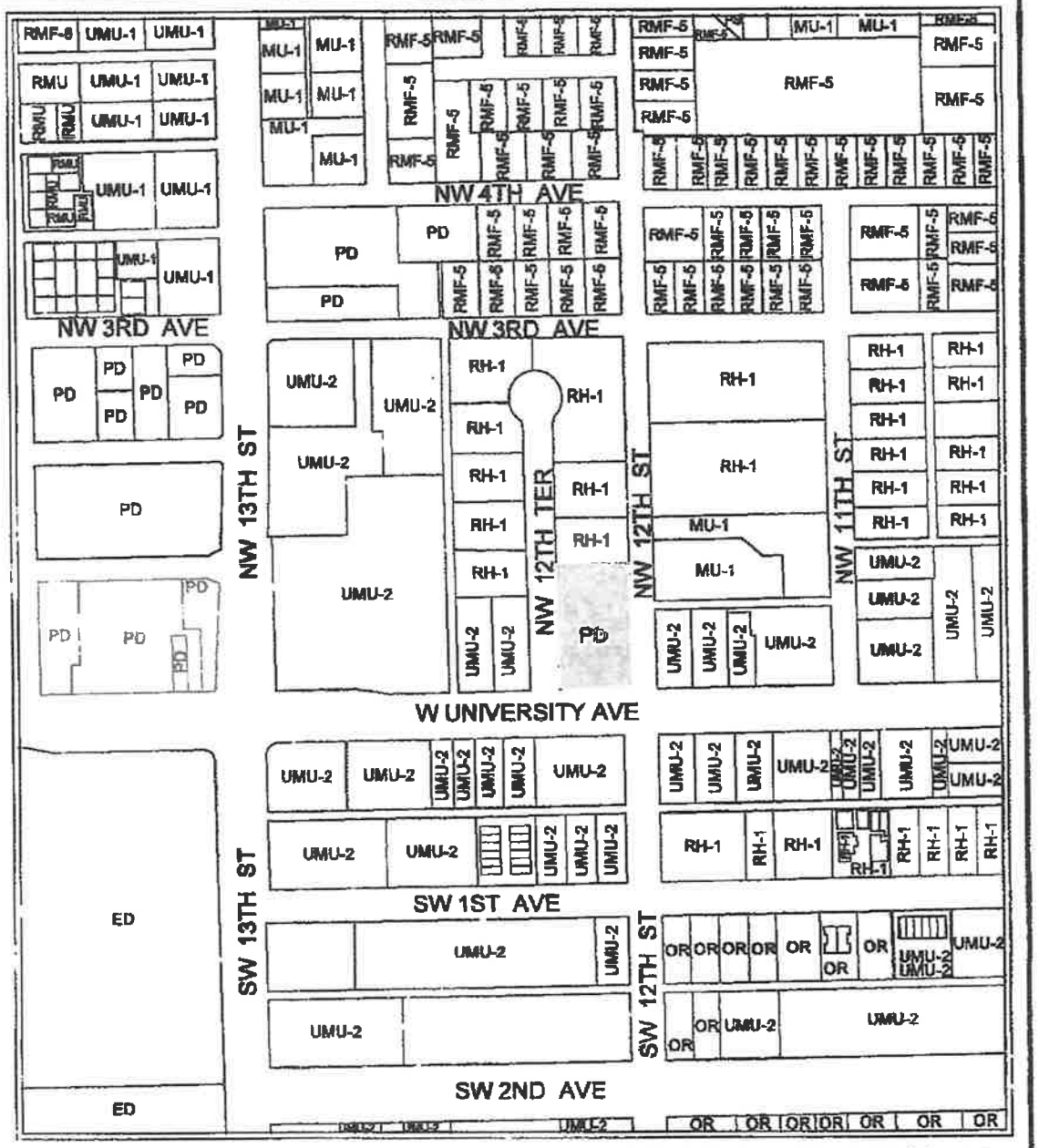
COMMENCE AT THE SOUTHEAST CORNER OF LOT 1, UNIVERSITY TERRACE, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK "A", AT PAGE 115 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA; THENCE RUN SOUTH 89°22'25" WEST ALONG THE SOUTH LINE OF SAID LOT 1 A DISTANCE OF 5.00 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE SOUTH 89°22'25" WEST ALONG THE SAID SOUTH LINE OF LOT 1 AND THE SOUTH LINE OF LOT 2 OF SAID PUBLIC RECORDS A DISTANCE OF 120.00 FEET TO THE SOUTHWEST CORNER OF SAID LOT 2; THENCE NORTH 00°42'56" WEST ALONG THE WEST LINE OF LOTS 2, 6 AND 7 OF SAID PUBLIC RECORDS A DISTANCE OF 223.69 FEET TO THE NORTHWEST CORNER OF SAID LOT 7; THENCE RUN NORTH 89°22'25" EAST ALONG THE NORTH LINE OF LOT 7 A DISTANCE OF 125.08 FEET TO THE NORTHEAST CORNER THEREOF; THENCE SOUTH 00°41'40" EAST ALONG THE EAST LINE OF SAID LOTS 1, 6 AND 7 A DISTANCE OF 213.69 FEET TO A POINT LYING 10 FEET NORTHERLY OF THE SOUTHEAST CORNER OF LOT 1; THENCE RUN SOUTH 25°53'03" WEST A DISTANCE OF 11.18 FEET TO THE POINT OF BEGINNING.

CONTAINING 27,945 SQ. FT. OR 0.64 ACRE MORE OR LESS.

Exhibit B to Ordinance No. 150418

City of Gainesville Zoning Districts

RMF5	Residential Low Density (12 du/acre)
RMF8	Multiple-Family Medium Density Residential (8-30 du/acre)
RH1	Residential High Density (8-43 du/acre)
OR	Office Residential (up to 20 du/acre)
PD	Planned Development
UMU1	Urban Mixed Use District 1 (up to 75 du/acre)
UMU2	Urban Mixed Use District 2 (up to 100 du/acre)
ED	Educational Services



PROPOSED ZONING

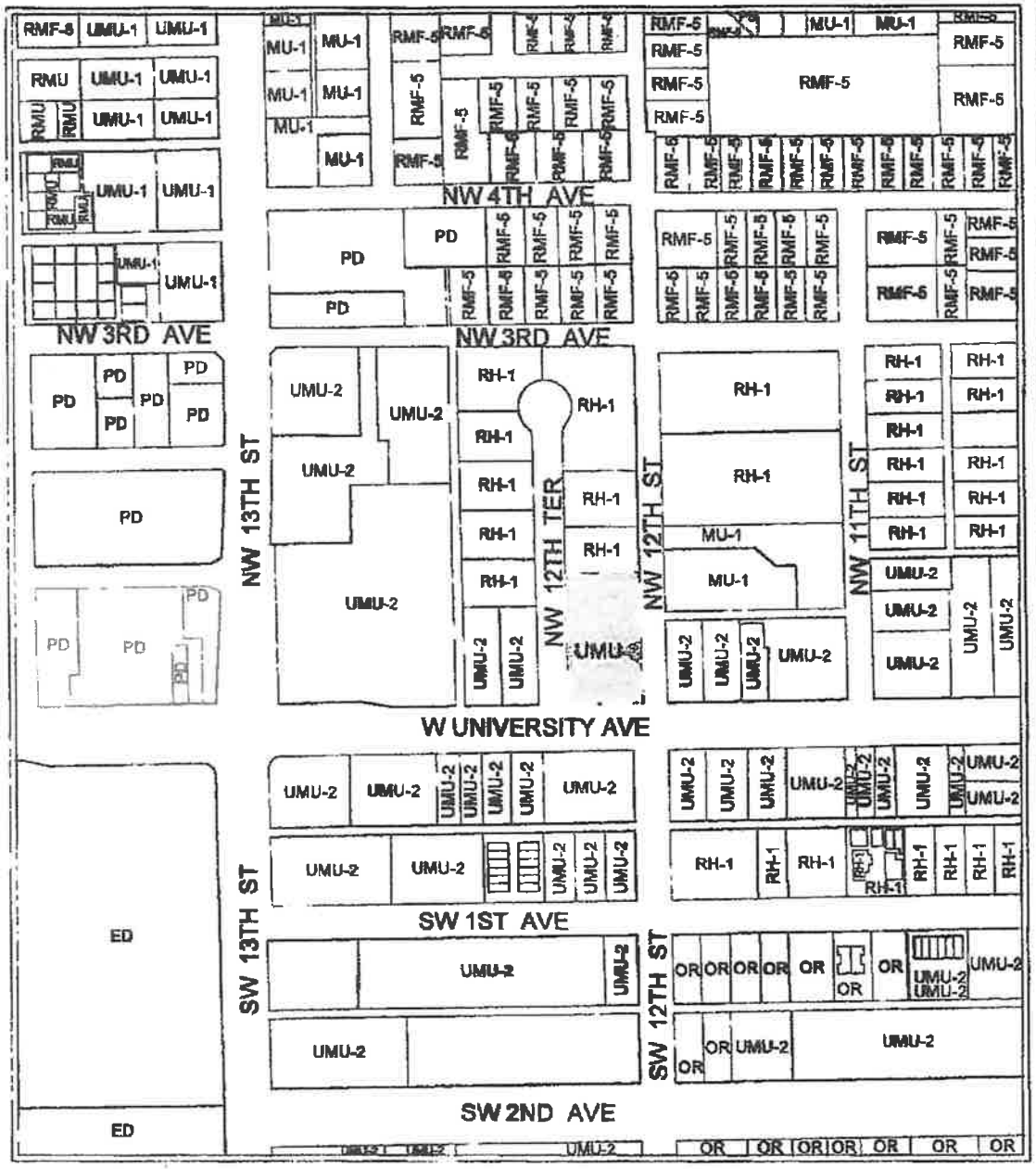
Name	Petition Request	Petition Number
Tim Chess, McDonalds USA, LLC agent for Razvi Enterprises, LLC	Rezone property from UMU-2 (urban mixed-use district) to PD (Planned development district) to allow a restaurant with a drive-through	PB-15-69 PDV

No Scale

Exhibit B to Ordinance No. 150418

City of Gainesville Zoning Districts

RMF5	Residential Low Density (12 du/acre)
RMF8	Multiple-Family Medium Density Residential (8-30 du/acre)
RH1	Residential High Density (8-43 du/acre)
OR	Office Residential (up to 20 du/acre)
PD	Planned Development
UMU1	Urban Mixed Use District 1 (up to 75 du/acre)
UMU2	Urban Mixed Use District 2 (up to 100 du/acre)
ED	Educational Services



EXISTING ZONING

No Scale	Name	Petition Request	Petition Number
	Tim Chess, McDonalds USA, LLC agent for Razvi Enterprises, LLC	Rezone property from UMU-2 (urban mixed-use district) to PD (Planned development district) to allow a restaurant with a drive-through	PB-15-69 PDV

Exhibit C to Ordinance No. 150418

1206 W. University Avenue Planned Development

PD Report

PB-15-69 PDV

Developer:

McDonald's USA

January 6, 2016

Prepared By:
CPH, Inc.
5200 Belfort Road, Suite 220
Jacksonville, FL 32256
Phone: 904-332-0999 Fax: 904-332-0997

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MCDONALD'S USA, LLC
PLANNED DEVELOPMENT (PD) REPORT
Submitted in accordance with the requirements of City of Gainesville,
Land Development Code (LDC) Sections 30-211, 213, 214, 216, 217, and 221

Section 30-214(3)(c)(2)(i) Purpose and Intent

The PD is on a ±0.64 acre parcel located in Section 5, Township 10 South, Range 20 East, Gainesville, Florida (Parcel Identification Number 13996-000-000). The property is within an existing urbanized area, characterized by hotel, retail and restaurant development along the University Avenue corridor and student housing along NW 12th Terrace and NW 12th Street. The existing zoning is UMU-2 (10—100 units/acre, and up to 25 additional units/acre by special use permit, urban mixed-use district), which does not permit drive-through facilities on the property. The purpose of the PD is to allow residential and non-residential uses on the property, including drive-through facilities as accessory to eating places. The PD will also allow design standards to be implemented on the property that are site specific and unique. The high density area surrounding the property is well suited for the uses permitted within the PD.

The PD will provide design standards which are largely consistent with the UMU-2 zoning district. Design standards not addressed in the PD will be regulated per the UMU-2 zoning district and other sections of the City of Gainesville's Land Development Code (LDC), as may be amended from time to time. In the case of any conflicts, the PD language will take precedence over the current LDC. The PD design standards are intended to implement the City's future vision for development within this corridor. Specific differences are described throughout the PD report.

The PD will permit residential and non-residential uses as would be appropriate and unique to the location. These targeted uses will provide essential services proximate to a very large student population.

Specific permitted uses are as described below in *Table 1: Permitted Uses.*

Table 1: Permitted Uses

SIC	Uses	Conditions
	Multi-family dwellings	Minimum and maximum densities and dimensional requirements are set forth in the UMU-2 zoning district
	Incidental residential accessory uses, including storage rooms, management offices, club or game rooms, and recreational and laundry facilities intended for use solely by the residents of the developments and	

SIC	Uses	Conditions
	their guests	
	Dormitory	Must not abut property designated single-family on the future land use map
	Rooming houses and boarding houses	
	Consolidated apartment management offices	
	Bed and breakfast establishment	
	Community residential homes with 14 or fewer residents	When part of a permitted single-family or multi-family residential development and in accordance with Article VI
	Community residential homes with more than 14 residents	In accordance with Article VI
	Outdoor cafes	In accordance with Article VI
	Eating places	Drive-through facilities as an accessory use in accordance with the provisions of the Transportation Mobility Program Area (TMPA)
	Food trucks	In accordance with Article VI
	Research and development in the physical, engineering and life sciences	
	Scooter sales	Only within enclosed buildings in accordance with Section 30-67(g). Facilities to service scooters are permitted as an accessory use when such facilities do not exceed 45% of the gross floor area of the enclosed building.
MG-43	U.S. Postal Service	
GN-	Arrangement of passenger transportation	Offices only, with no operation of passenger

SIC	Uses	Conditions
471		tours on site
GN-483	Radio and television broadcasting stations	Accessory transmission, retransmission, and microwave towers up to and including 100 feet in height in accordance with Article VI, excluding cellular telephone services
MG-53	General merchandise stores	
MG-54	Food stores	Excluding gasoline pumps
MG-56	Apparel and accessory stores	
MG-57	Home furniture, furnishing, and equipment stores	
MG-59	Miscellaneous retail	Excluding GN-598 Fuel Dealers
Div. H	Finance, insurance and real estate	Excluding cemetery subdividers and developer (IN-6553)
Div. J	Public administration	Excluding correctional institutions (IN-9223)
MG-73	Business services	Excluding outdoor advertising services (IN-7312), disinfecting and pest control services (IN-7342), heavy construction equipment rental and leasing (IN-7353), and equipment rental and leasing, not elsewhere classified (IN-7359)
GN-701	Hotels and motels	
MG-79	Amusement and recreation services	Excluding go-cart rental and raceway operations, commercial sports, and simulated gambling establishments. Must be located within enclosed structures.
MG-80	Health services	

SIC	Uses	Conditions
MG-81	Legal services	
MG-82	Educational services	
	Accessory uses customarily and clearly incidental to any permitted principal use.	Applies only to permitted principal uses within the PD.

Section 30-214(3)(c)(2)(ii) Statistical Information

Table 2: Statistical Information

Description	PD Total Area (Maximum, unless otherwise noted)
Site Acreage	0.64 acres
Maximum Building Coverage	80%
Maximum Impervious Ground Coverage	90%
Maximum and Minimum Number of Dwelling Units and Residential Density in each Residential Use Area	Minimum and maximum densities and dimensional requirements are set forth in the UMU-2 zoning district.
Building Height	6 Stories, 8 Stories by Special Use
Non-Residential Land Use Type and Size Permitted (Gross Leasable Area)	Retail/Commercial – 20,000 s.f.
The Maximum Acreage Of Each Use Area	
Development Area	0.58 acres
Buffer / Landscaping	0.06 acres
Area of Land Devoted to Publicly Owned	
Usable Open Space, Publicly Owned Recreational Areas, Publicly Owned Plazas, Common Area Usable Open Space, Common Area Recreational Areas and Common Area Plazas	0%

Section 30-214(3)(c)(2)(iii) Stormwater Management Plan

The PD will include an on-site Stormwater Management Facility (SMF) to provide water quantity treatment and rate/volume attenuation for the 100-year design storm event. Due to property size constraints, facilities may be constructed underground. All SMF facilities will be privately owned and maintained and all SMF facilities will employ best management practices.

Section 30-214(3)(c)(2)(iv) Design Standards

Building Design and Orientation

Consistent with the City of Gainesville's Comprehensive Plan, the PD will focus development internally, while providing connection to adjacent roadways. Building facades will be designed to complement both internal and external views. In addition, buildings will support the principles of Crime Prevention Through Environmental Design (CPTED) by putting eyes on the street. External building facades will be designed to present pleasant and distinctive design elements for passers-by.

The building facades will present an architectural style that invites residents and neighbors into the property and enhances the existing street-design elements. The facades will present a pleasing appearance not only to the internal portions of the property, but also to external passers-by. Design standards shall include a building location near the street, building orientation towards the more primary street, and building façade articulation. Additionally, dimensional requirements shall be per the City of Gainesville's Land Development Code, Section 30-65.2(d)(1), except as shown below in *Table 3: Dimensional Requirements*.

Table 3: Dimensional Requirements

	Nonresidential and Vertically Mixed Use Buildings
Lot depth (minimum)	90 feet
Interior side (minimum)	0 feet, or 25 feet when abutting property designated single-family or residential low-density on the future land use map
Rear (minimum)	0 feet, or 25 feet when abutting property designated single-family or residential low-density on the future land use map.
Lot coverage (maximum)	80%
Building frontage[1]	50% minimum on storefront streets; 20% minimum on local streets.
Density (minimum)[2]	N/A
Density (maximum)	100 du/acre, or up to 125 du/acre by special use permit.
Height and Stories	Non-single-family buildings shall have a minimum height of 18 feet.
	A maximum of six stories is permitted by right. Unless otherwise specified, a maximum of eight stories is permitted by special use permit.
	A maximum of three or four stories for a distance of 50 feet, as measured from the property line located adjacent to the University Heights Historic Districts, as depicted in Figure 3.0.

Notes to Table:

[1] Insets for the purpose of creating articulation and architectural interest in the building façade will be deemed to meet the build-to line and shall be included in computing the building frontage.

Streetscape dimensional requirements shall be per the City of Gainesville's Land Development Code, Section 30-65.2(e)(6), except as shown below in *Table 4: Streetscape Dimensions*. During project planning, it was discovered that utilities exist along all rights-of-way. Due to the property's unique design and to maintain utility separation requirements, it was required that the build-to line dimensional requirements in this section be modified to be specific to this PD.

Section 30-65.2(e)(6) Build-to line.

a. The build-to line shall be measured from the back of curb.
b. The build-to-line shall be calculated as the sum of the required landscape zone, sidewalk zone and required setback from the sidewalk zone.
c. The build-to line standards of this section shall not result in structures being built in the public right-of-way. If the build-to line dimensions result in a build-to line within the public right-of-way, the actual build-to line shall be established at the property line adjacent to the public right-of-way.

Table 4: Streetscape Dimensions

	Storefront streets *W. University Avenue*	Local streets or private streets *NW 12th Terrace/NW 12th Street*
Landscape zone (minimum)	5 feet Landscape zone can be accomplished by planting street trees in tree grates, where necessary to meet utility spacing requirements, or a separate 5 foot landscape zone can be planted in addition to the sidewalk zone. Landscape zone may be located on parcel, public right-of-way, or both.	9 feet Landscape zone can be accomplished by planting street trees in tree grates, where necessary to meet utility spacing requirements, or a separate 9 foot landscape zone, measured from the back of curb, can be planted in addition to the sidewalk zone. Landscape zone may be located on parcel, public right-of-way, or both.
Street tree spacing	35 feet (minimum) to 50 feet (maximum), on center	35 feet (minimum) to 50 feet (maximum), on center
Sidewalk zone (minimum)	5 feet Measured from the back of curb.	6 feet Measured from the back of curb with street trees in tree grates, and measured from the landscape zone without street trees in tree grates. Sidewalk zone may split landscape zone or be separate. Sidewalk zone may be located on parcel, public right-of-way, or both.

	Storefront streets *W. University Avenue*	Local streets or private streets *NW 12th Terrace/NW 12th Street*
Build-to-line (nonresidential uses)	10 feet (minimum) to 20 feet (maximum), measured from the back of curb; A larger build-to-line may be allowed to accommodate utility separation requirements	9 feet (minimum) to 60 feet (maximum), measured from the back of curb

Sidewalks

Sidewalks will be located along all roadway corridors (W. University Avenue, NW 12th Street and NW 12th Terrace) external to the development if not already established. Sidewalks along NW 12th Street and NW 12th Terrace shall be reconstructed so a landscape strip separates the sidewalk from the roadway. Sidewalk construction within the abutting public right of ways is subject to City and State guidelines as applicable.

Landscaping

Landscape improvements shall be per the City of Gainesville's LDC, Division 2, Subdivision I, with the exception of Section 30-252 as modified below. Streetscaping will be provided to enhance the pedestrian connection to development including sidewalks connections, internal circulation, and landscaping along public roadway frontage.

All vehicular use areas shall be subject to the perimeter landscaping requirements in Sec. 30-352(1)(a), except along W. University Avenue where the required landscape area can be achieved by planting street trees in tree grates within the sidewalk zone.

Additionally, landscaping should be heavy enough to adequately screen any drive-through facility from adjacent roadways in accordance with Policy 10.4.4 of the Transportation Mobility Element, specifically 10.4.4(d), minimization of the visual impacts of drive-through lanes on street frontage areas. Alternatively, if landscaping cannot fully screen the drive-through facilities from W. University Avenue, a three foot high opaque wall designed to match the principal building shall be installed adjacent to the drive-through facilities.

Vehicular Use Areas

On-site driveways, parking facilities, general vehicular use areas, and pedestrian facilities will be designed to comply with the standards defined in the City of Gainesville's LDC, except as modified by this PD. Landscaping of vehicular use areas will be consistent with Section 30-252 of the LDC, with the exception of Section 30-252(1)(a) as described above. Vehicle loading and service facilities will be designed to provide adequate maneuvering areas internal to the property, rather than using public streets and rights-of-ways and shall meet LDC Section 30-334.

On-site parking will be provided to ensure that safe and efficient circulation is available. Parking areas will be designed consistent with Section 30-330 of the LDC. The number of parking spaces based upon the table of uses in Section 30-332 of the LDC will apply, except there shall be no minimum vehicle parking requirement for non-residential uses and the maximum parking allowed shall be one space per 200 sf of building area for non-residential uses. The minimum number of bicycle and motorcycle parking spaces required will be consistent with Section 30-332 of the LDC. Scooter parking shall be provided for

residential uses at a rate of one space for every four residential units. Excess parking requirements shall be consistent with Section 30-333 of the LDC.

Dumpsters
Dumpsters will be regulated per the UMU-2 zoning district, except dumpster enclosures will not be required to be connected to the principal structure and may be remote, stand-alone structures. The City of Gainesville's Public Works Department shall direct placement of the solid waste collection facility(s).

Energy Conservation
Buildings shall be designed to promote energy efficiency standards, xeriscaping, and other landscaping elements to create a more inviting space and reduce energy consumption. Building design shall include energy saving elements such as awnings, energy star mechanical equipment, and architecture that can allow for natural light into interior building areas.

General PD Development Standards

1. A 10-foot high screen wall shall be constructed along the north property line. The screen wall shall consist of 8-foot high precast panels mounted on columns with a 2-foot high fence mounted on top. The screen wall material shall match the exterior of the principal building on the property.

2. If developed with a drive-through facility, the owner/developer/occupant shall dedicate an employee to monitor traffic on the property during all hours of operation to ensure that vehicles entering and leaving the property do not cause traffic congestion on W. University Avenue, NW 12th Terrace and NW 12th Street. The employee shall be required to wear an ANSI Type II reflective vest while directing traffic and shall not be within the public right-of-way.

3. Except as expressly provided in the PD Ordinance and this PD Report, the subject property shall be governed as if it were zoned UMU-2 (10-100 units/acre and up to 25 additional units/acre by special use permit, urban mixed-use district), as that zoning district may be amended from time to time in the City Land Development Code.

Section 30-214(3)(c) (2)(v) Development Schedule
The PD will allow for phasing of associated development plans.

Section 30-214(3)(c)(2)(vi) Signage Plan
The PD shall comply with the signage requirements in the City Land Development Code.

Section 30-214(3)(c)(2)(vii) Enumeration of Differences
The PD will allow uses which are largely consistent with the City of Gainesville's UMU-2 zoning district and other applicable sections of the LDC. Specific permitted uses have been described in the table on pages 3-6. Other deviations have been described in this PD and summarized below:

All vehicular use areas shall be subject to the perimeter landscaping requirements in Sec. 30-352(1)(a), except along W. University Avenue where the required landscape area can be achieved by planting street trees in tree grates within the sidewalk zone. If landscaping cannot fully screen the drive-through facilities from W. University Avenue, a three foot high opaque wall designed to match the principal building shall be installed adjacent to the drive-through facilities.

The number of parking spaces shall be based upon the table of uses in Section 30-332 of the LDC, except there shall be no minimum vehicle parking requirement for non-residential uses.

Dimensional requirements and streetscape dimensional requirements per the City LDC, Section 30-65.2(e)(6), are modified to be specific to the property's unique design and to maintain utility separation requirements. Refer to Section 30-214(3)(c)(2)(iv) Design Standards.

Section 30-211(b)(1-7) PD Objectives

(1) Permit outstanding and innovative residential and nonresidential developments with a building orientation generally toward streets and sidewalks; provide for an integration of housing types and accommodation of changing lifestyles within neighborhoods; and provide for design which encourages internal and external convenient and comfortable travel by foot, bicycle, and transit through such strategies as narrow streets, modest setbacks, front porches, connected streets, multiple connections to nearby land uses, and mixed uses.

Due to the property being located on a principal arterial roadway in the City, this PD will permit outstanding and innovative residential and nonresidential developments. Building orientation shall be towards streets and sidewalks, providing a design which promotes travel by foot, bicycle and transit.

The property will provide connection to external pedestrian and bicycle circulation networks and will allow residents of neighboring developments to take advantage of the residential and non-residential uses and opportunities provided within the PD.

Parking facilities will be provided for guests on the property. Parking facilities will be located behind buildings and drive-through facilities will be screened from view from adjacent roadways.

Sidewalks will be provided along all adjacent roadways to provide convenient access to and from the property. The property is located along Bus Route 5 and very close to stops servicing Bus Routes 8, 10, and 29, which allows for easy access to transit riders. Persons with special needs, such as the elderly and physically-challenged, can also easily access the property and utilize its offerings without imposition.

(2) Provide flexibility to meet changing needs, technologies, economics and consumer preferences;

The proposed PD rezoning will provide the property owners flexibility to meet changing market and consumer needs by allowing the property to be utilized by a variety of uses, including those utilizing a drive-through facility for eating places. The proposed permitted uses are intended to serve the existing and future residents in the area by providing social and work-related supporting uses within a short walking distance.

(3) Preserve to the greatest extent possible, and utilize in a harmonious fashion, existing and outstanding landscape features and scenic vistas.

The proposed PD Layout Plan will incorporate the theme of the area by placing buildings close to the roadway with a large sidewalk area adjacent to the roadway for pedestrian use and gathering. Streetscape will be accomplished by planting street trees in tree grates and providing an outdoor eating area. The remainder of the property will be landscaped with street trees and shrubbery designed to shield vehicular use areas and adjoining uses.

(4) Lower development and building costs by permitting smaller networks of utilities, a network of narrower streets, and the use of more economical development patterns and shared facilities.

The property is located proximate to existing urban amenities such as public utilities, roadways, transit routes, bike lanes, and sidewalks. Development within areas adjacent to public facilities promotes an efficient and compact development pattern providing greater cost saving and long-term sustainability of shared infrastructure facilities.

Furthermore, the PD is designed to support the abundant residential units adjacent to the property, allowing for coordination among land uses and filling in one of the few remaining vacant lots in the area.

(5) Achieve overall coordinated building and facility relationships and infill development, and eliminate the negative impacts of unplanned and piecemeal development.

The uses and design standards allowed within the PD are consistent with existing development in the area surrounding the property. Since the property has been vacant for longer than a year, the PD will facilitate infill development and continuity in the development pattern of the neighborhood.

The PD promotes flexible standards and it supports a variety of uses that strengthen the ability to meet changing market trends, market demand, and local tastes. The PD also promotes an atmosphere utilizing alternative modes of transportation, such as bicycles and mass transit.

(6) Enhance the combination and coordination of architectural styles, building forms and building relationships within the development.

The PD provides variable articulated facades. The PD also provides on-site parking and internal circulation for pedestrians, vehicles, and bicycles. Despite regulatory and on-site utility constraints, the PD preserves the corridors aesthetic by coordinating architectural scale with surrounding development and shielding vehicular use areas from the adjacent roadway's view shed.

(7) Promote the use of traditional, quality-of-life design features, such as pedestrian scale, parking located to the side or rear of buildings, narrow streets, connected streets, terminated vistas, front porches, recessed garages, alleys, aligned building facades that face the street, and formal landscaping along streets and sidewalks.

The PD provides appropriate pedestrian scaled elements such as sidewalks, lighting and outdoor eating areas. Vehicular use areas will be located at the rear of the building. Vegetation and/or screening walls, where practicable, create a secluded atmosphere and attractive vistas both inside and outside the property. Coordination with Gainesville Regional Utilities will occur throughout the

development review process. Historically, parking, circulation, and landscaping have been permitted uses within easements areas.

Section 30-213 Minimum Criteria for Planned Development (PD)

An application for a PD rezoning must present evidence that justifies the rezoning. Justification must include one or more of the following.

(1) Unique and promoted by comprehensive plan. The proposed development is unique. Although it does not fit within an existing zoning district, it is consistent with the City comprehensive plan, except it may require a land use change. Other options available under the existing zoning district(s) in the City of Gainesville's LDC would not allow the use and associated design elements of the proposed project.

The PD is unique, yet still consistent with the City Comprehensive Plan. The existing zoning district would not allow a drive-through use, nor did other zoning district(s) in the City's LDC allow associated design elements of the PD. Providing a drive-through facility on the property, which shall be designed to be pedestrian-friendly, has created unique design standards.

(2) Size, scale, complexity and design. The proposed development is of such size, scale, complexity, and/or unique design that it would be inconvenient and inefficient to process such a proposal outside the PD process.

Since the existing zoning classification would not permit a drive-through facility through other processes, an approval outside of the PD process would not be possible. Also, existing utility easements make the layout and design of the building difficult to manage utilizing existing code regulations.

(3) Specialized compatibility and design characteristics. The nature of the proposed use at a specific site requires specialized design characteristics to preserve and protect neighborhood character, environmental concerns and other concerns unique to the immediate area, consistent with comprehensive plan policies.

The PD will include flexible design standards to address design constraints, such as the limited size of the property and utility easements. The design standards of the PD will also enhance the usefulness of the property and reflect the surrounding uses and theme of the neighborhood.

Section 30-216 Requirements and Evaluation of Planned Development

Conformance with PD Objectives

Consistency with the objective set forth in the City of Gainesville Land Development Regulations Section 30-211(b) has been demonstrated throughout this report. The City of Gainesville Future Land Use Map indicates the property has an Urban Mixed-Use 2 (UMU-2) land use classification. A PD zoning district is consistent with this land use category.

Concurrency

The PD lies within Zone A of the City's Transportation Mobility Program Area and will meet the provisions of Transportation Mobility Element Policy 10.1.4.

Internal Compatibility
The PD will function in conjunction with an existing populated community, and shall not have any undue adverse impact on any of the neighboring uses. Building orientation shall be towards streets and sidewalks, providing a design which promotes travel by foot, bicycle and transit. The PD will provide connection to external pedestrian and bicycle circulation networks and will allow residents of neighboring developments to take advantage of the residential and non-residential uses and opportunities provided within the PD. Parking facilities will be provided for guests within the site. Parking facilities will be located behind buildings and drive-through facilities will be screened from view from adjacent roadways. Sidewalks are provided along all adjacent roadways to provide convenient access to and from the property.

External Compatibility
The surrounding properties are classified with the same land use and zoning classifications, with the exception of the student housing located to the North. The PD brings a live, work, and recreate environment to the area, while preserving and enhancing the existing neighborhood by providing urban infill development.

Table 5: Surrounding Future Land Use and Zoning Classifications

Direction	Future Land Use	Zoning Classification	Property Use
North	Residential High-Density	Residential High Density	Single- and Multi-Family Dwellings/Student Housing
East	Urban Mixed-Use 2/Mixed-Use Low-Intensity	Urban Mixed-Use 2/Mixed-Use Low Intensity	NW 12th Street/Convenience Store
South	Urban Mixed-Use 2	Urban Mixed-Use 2	W. University Ave./Vacant Commercial
West	Urban Mixed-Use 2/Residential High-Density	Urban Mixed-Use 2/ Residential High Density	NW 12th Terrace/Eating Place/Single-Family Dwelling

To the greatest extent practicable, the PD's SMFs, driveways, common space, and utility locations will be designed to utilize and preserve the existing and outstanding landscape features on the property. Where possible, the landscape features on the property shall be incorporated as aesthetic elements.

The PD will comply with the City LDC for the purposes of lighting. The location of luminaries will be determined during development plan review.

Intensity of Development
As previously shown, the maximum building coverage is limited to 80% of the property's total acreage. The intensity of the property is consistent and compatible with the physical characteristics of the property and that of the surrounding properties.

Usable Open Spaces
On-site open space, although adequate for guests, is limited due to the compact design form. Stormwater management facilities shall be designed underground when adequate open space does not exist. Interior space will provide urban-type landscape amenities and moderate shade tree coverage. Those areas along NW 12th Street and NW 12th Terrace will be designed to blend with the surrounding context area using typical urban-type streetscaping elements.

Environmental Constraints

The property was previously a regulated hazardous materials facility (Texaco Gas Station). The property is an inactive petroleum cleanup site with documented groundwater contamination. Impacts will be evaluated through appropriate environmental reports and any necessary design considerations will be implemented during construction plan preparation.

External Transportation Access

Vehicular access to the property will be allowed by a full access driveway on NW 12th Street and another full access driveway on NW 12th Terrace. No direct vehicular access to W. University Avenue will be allowed. The internal circulation system will accommodate pedestrian and bicycle traffic, as well as traditional vehicular circulation. Circulation design will ensure safe and efficient routes are designed.

Trip Generations are based upon the ITE Trip Generation manual, 9th Edition. The complete traffic study, prepared by CPH, Inc., is included under separate cover and analyzes not only the trip generation, but also the distribution of trips generated by the development, the potential modal split, and the impact on intersection operation.

Land Use	Size	Weekday			PM Peak Hour of the Generator		
		Entry	Exit	Total	Entry	Exit	Total
934 – FAST FOOD WITH DRIVE-THROUGH	94 seats	918	917	1835	47	42	89
	Pass-by Capture	-459	-459	-918	-24	-21	-45
	Total New Trips	459	458	917	23	21	44

Internal Transportation Access

The sidewalks, pedestrian lighting, and streetscape improvements will be installed to allow for safe internal movement of visitors on the property. Sidewalks provide connection from the parking area to the facility as well as from the preexisting sidewalks located along all roadways.

Range of Transportation Choices

Transportation to and from the property is accommodated via pedestrian, bicycle, mass transit, and personal vehicles.

Section 30-217 Unified Control

The applicant, McDonalds USA, LLC, is under a land lease agreement with Razvi Enterprises, LLC, to be in complete, legal and unified control of the entire area of the proposed PD. Sufficient evidence will be provided to the City Attorney, including all agreements, contracts, guarantees and other necessary documents and information that may be required.

EXHIBIT A

LEGAL DESCRIPTION/BOUNDARY AND TOPOGRAPHIC SURVEY

EXHIBIT

A

LEGAL DESCRIPTION

LOTS ONE (1), TWO (2), SIX (6) AND SEVEN (7), OF UNIVERSITY TERRACE, A SUBDIVISION IN THE EAST HALF OF LOT THIRTEEN (13), BROWN'S ADDITION TO THE CITY OF GAINESVILLE, BEING IN THE NORTHWEST QUARTER (NW 1/4) OF SECTION 5, TOWNSHIP 10 SOUTH, RANGE 20 EAST, AS PER PLAT THEREOF RECORDED IN PLAT BOOK "A", AT PAGE 115 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA, LESS AND EXCEPT ALL ROAD RIGHTS-OF-WAY. ALSO LESS AND EXCEPT THE FOLLOWING DESCRIBED LAND:

BEGINNING AT THE SOUTHEAST CORNER OF SAID LOT ONE (1), RUN THENCE NORTHERLY ALONG THE EAST LINE OF SAID LOT ONE (1), A DISTANCE OF 10 FEET, RUN THENCE SOUTHWESTERLY 11.18 FEET TO THE SOUTH LINE OF SAID LOT ONE (1) AT A POINT 5 FEET WESTERLY FROM THE POINT OF BEGINNING; RUN THENCE EASTERLY ALONG THE SOUTH LINE OF SAID LOT ONE (1) A DISTANCE OF 5 FEET TO THE POINT OF BEGINNING.

LEGAL DESCRIPTION PREPARED BY SURVEYOR:

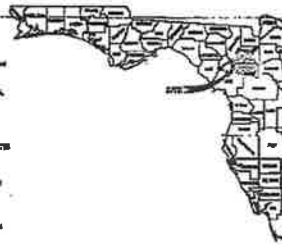
A PORTION OF LOT 1 AND ALL OF LOTS 2, 6 AND 7, UNIVERSITY TERRACE, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK "A", AT PAGE 115 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA, BEING DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF LOT 1, UNIVERSITY TERRACE, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK "A", AT PAGE 115 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA; THENCE RUN SOUTH 89°22'25" WEST ALONG THE SOUTH LINE OF SAID LOT 1 A DISTANCE OF 5.00 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE SOUTH 89°22'25" WEST ALONG THE SAID SOUTH LINE OF LOT 1 AND THE SOUTH LINE OF LOT 2 OF SAID PUBLIC RECORDS A DISTANCE OF 120.00 FEET TO THE SOUTHWEST CORNER OF SAID LOT 2; THENCE NORTH 00°42'56" WEST ALONG THE WEST LINE OF LOTS 2, 6 AND 7 OF SAID PUBLIC RECORDS A DISTANCE OF 223.69 FEET TO THE NORTHWEST CORNER OF SAID LOT 7; THENCE RUN NORTH 89°22'25" EAST ALONG THE NORTH LINE OF LOT 7 A DISTANCE OF 125.08 FEET TO THE NORTHEAST CORNER THEREOF; THENCE SOUTH 00°41'40" EAST ALONG THE EAST LINE OF SAID LOTS 1, 6 AND 7 A DISTANCE OF 213.69 FEET TO A POINT LYING 10 FEET NORTHERLY OF THE SOUTHEAST CORNER OF LOT 1; THENCE RUN SOUTH 25°53'03" WEST A DISTANCE OF 11.18 FEET TO THE POINT OF BEGINNING.

CONTAINING 27,945 SQ. FT. OR 0.64 ACRE MORE OR LESS.

SCHEDULE B-SECTION II PER CHICAGO TITLE INSURANCE COMPANY TITLE COMMITMENT ORDER NO. 5207347 EFFECTIVE DATE APRIL 1, 2010 AT 5:00 P.M.

[illegible]



BOUNDARY & TOPOGRAPHIC SURVEY

ALSO BEING AN

(ALTA/ACSM LAND TITLE SURVEY)

FOR

McDonald's

L/C 009-2618

AT

UNIVERSITY AVE

LYING IN

SECTION 5-TOWNSHIP 10 SOUTH-RANGE 20 EAST
CITY OF GAINESVILLE, ALACHUA COUNTY, FLORIDA

EXHIBIT A

REDUCED COPY

VICINITY MAP

Legal Description: (PER TITLE COMMITMENT ORDER NO. [illegible])

[illegible]

LEASEHOLD INTEREST IN THE FOLLOWING LANDS:

[illegible]

Legal Description: (PREPARED BY SURVEYOR)

A PORTION OF LOT 1 AND ALL OF LOTS 2, 6 AND 7, UNIVERSITY TERRACE, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK "A", AT PAGE 115 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA, BEING DESCRIBED AS FOLLOWS:

[illegible]

CONTAINING [illegible] SQ. FT. OR [illegible] ACRE MORE OR LESS.

Survey Notes:

1. "SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER."
2. "ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES."
3. [illegible]

[illegible]

Reference Material:

[illegible]

Parking Table

STANDARD SPACES = N/A
ACCESSIBLE SPACES = N/A
TOTAL SPACES = N/A

Abbreviation Legend:

[illegible]

Line Legend:
NOT TO SCALE

[illegible]

Symbol Legend:
NOT TO SCALE

[illegible]

Sign Legend:
NOT TO SCALE

[illegible]

Index of Sheets

1 ALTA/ACSM LAND TITLE SURVEY (COVER SHEET)
2 ALTA/ACSM LAND TITLE SURVEY (BOUNDARY & TOPOGRAPHIC SURVEY)

Surveyor's Certification:

[illegible]

JAN 12 2010

A-2

NOTE: [illegible]

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Field Crew:	E.H.
Drawn by:	J.T.P.
Checked by:	R.L.R.
Approved by:	P.J.K.
Scale:	N/A
Date:	4/15/10
Job No.:	M29668

No.	Date	Revision	By
1	8/16/10	ADDED UNDERGROUND UTILITIES & TEST HOLES	JTP

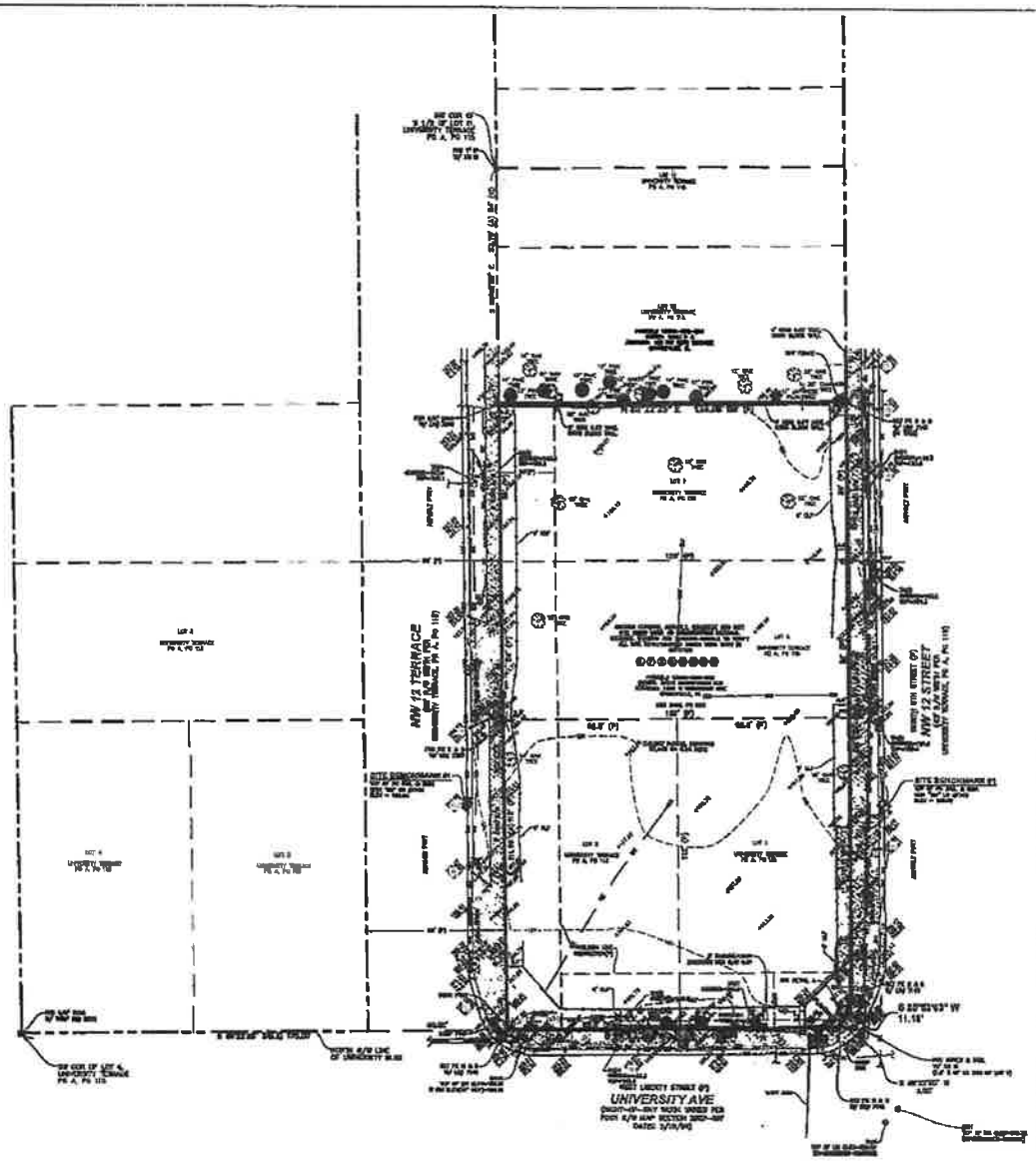
BOUNDARY & TOPOGRAPHIC SURVEY
(ALTA/ACSM LAND TITLE SURVEY)

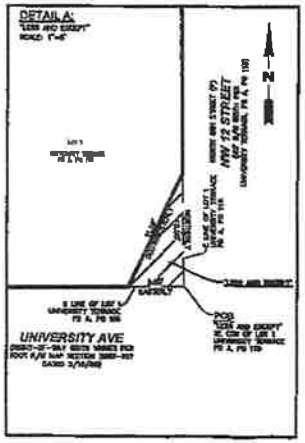
McDonald's
L/C 009-2618
UNIVERSITY AVE
SECTION 5-TOWNSHIP 10 SOUTH-RANGE 20 EAST
CITY OF GAINESVILLE, ALACHUA COUNTY, FLORIDA

Sheet No. 1 of 2

EXHIBIT

A





A-3

NOTE:

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- Connecticut
- Maryland
- Texas

Date	Description	By
	ADDED UNDERGROUND UTILITIES & TEST HOLES	JJP

		Date
Field Crew:	E.A.	
Drawn by:	J.T.P.	
Checked by:	R.L.H.	
Approved by:	P.J.K.	
Scale:	1"=30'	
Date:	6/10/15	
Job No.:	N2015465	8/12/15
File:		© 2015

Survey Prepared by
CPH, Inc.
Gainesville, FL 32601
Licensed:
Reg. C.E.A. No. 6754
Survey L.B. No. 7132
Arch. L.B. No. AAC000165
Landscape Arch. Lic. No. LC0000220

BOUNDARY & TOPOGRAPHIC SURVEY
(ALTA/ACSM LAND TITLE SURVEY)

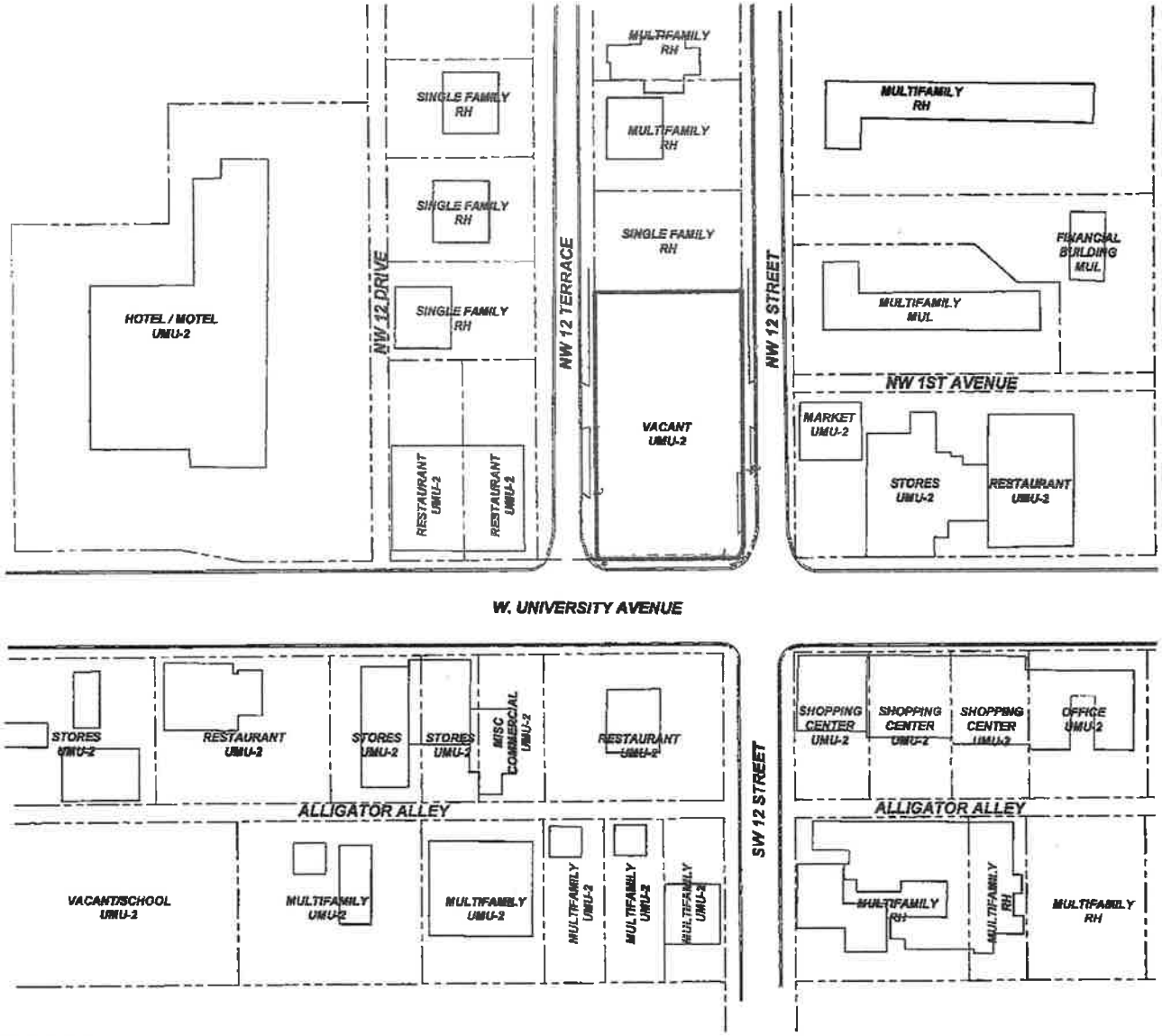
McDonald's.

LC 000-2318
NW 12 TERRACE AVE
SECTION 6-TOWNSHIP 10 S-RANGE 20 EAST
CITY OF GAINESVILLE, ALACHUA COUNTY, FLORIDA

Sheet No.
2
of 2

EXHIBIT B

EXISTING CONDITIONS MAP



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EXISTING CONDITIONS MAP
BURSTING USES

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B-1

NW 12 TERRACE
NW 12 STREET
NEW LIBERTY STREET (R)
N
GRAPHIC SCALE
EXHIBIT
B
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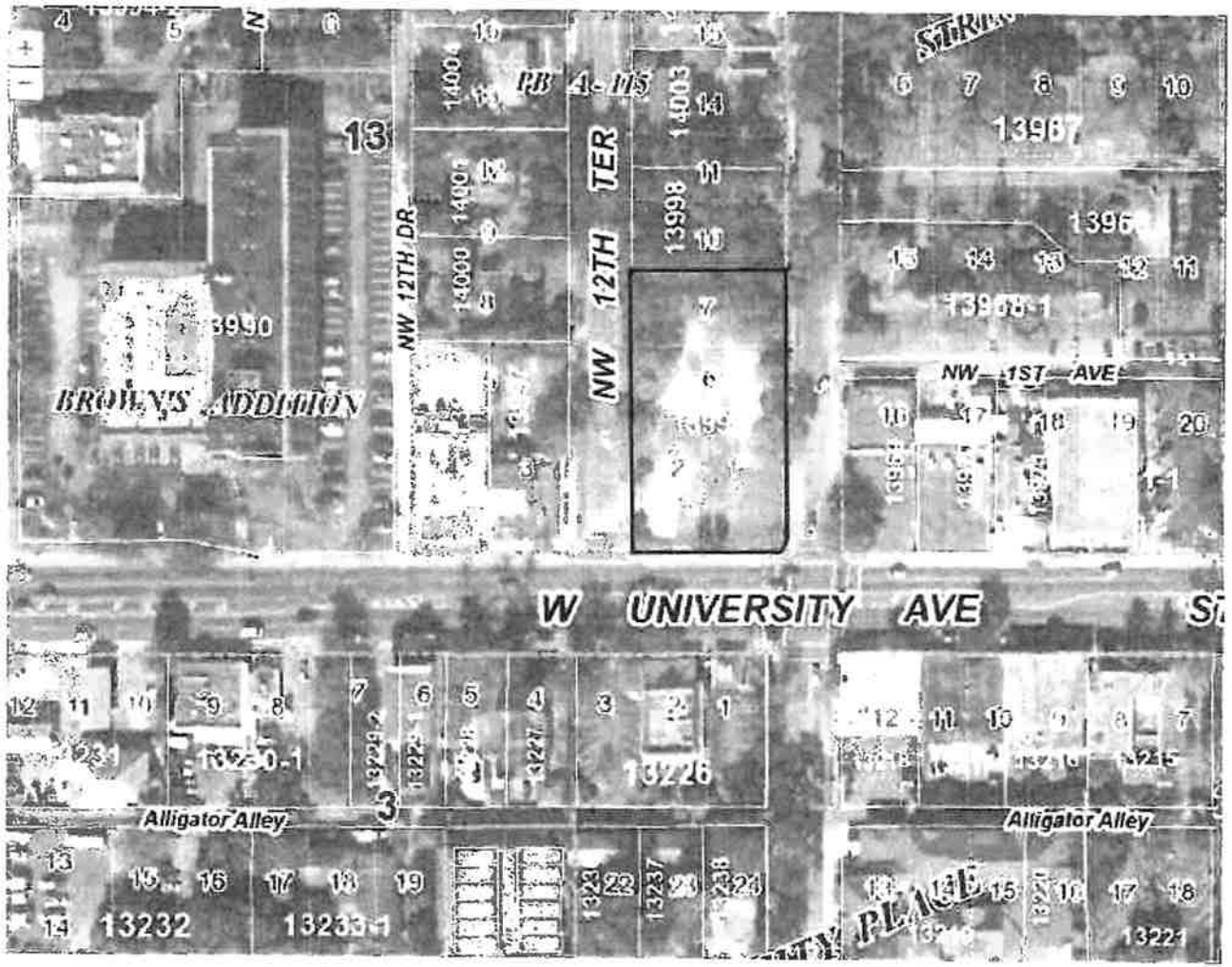
McDonald's
EXISTING CONDITIONS MAP
BOUNDARY & TOPOGRAPHIC SURVEY
B-2



N

GRAPHIC SCALE

EXHIBIT

B

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- Texas

Revisions	Date	By

Field Check:
Drawn by:
Checked by:
Scale: 1"=40'
Date:
Job No.:
File name:
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Issued/Prepared by:
GPH, Inc.
Licenses:
Reg. C.A.A. No.
Reg. L.A. No.
Arch. Lic. No.
Engineer Lic. No.
Landscape Lic. No.

EXISTING CONDITIONS MAP
AERIAL OVERLAY

McDonald's

1300 N. UNIVERSITY AVE.
CITY OF GAINESVILLE, FLORIDA

B-3

EXHIBIT C

PD LAYOUT PLAN MAP

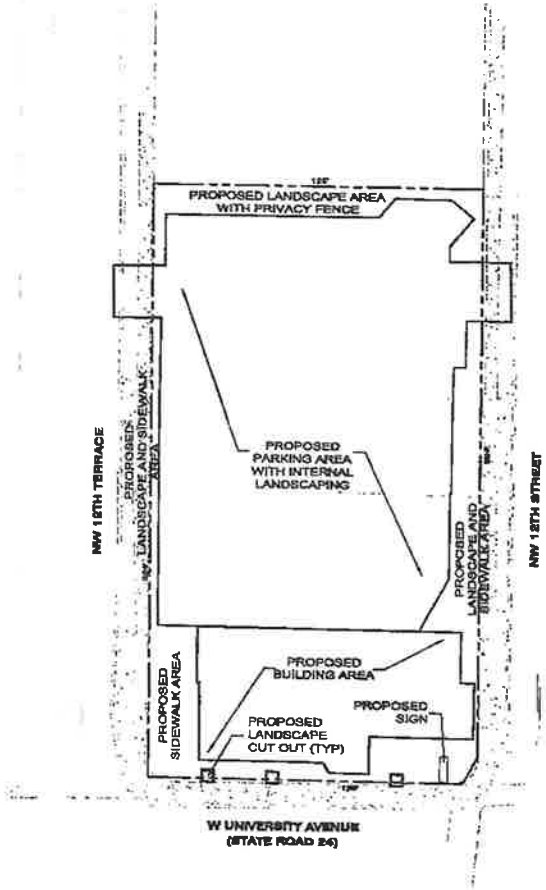

EXHIBIT
C

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• Connecticut
• Maryland
• Texas

No.	Date	Revisions
1		
2		
3		
4		
5		
6		
7		

Designed by:	GAR	
Drawn by:	PWR	
Checked by:	JTP	
Approved by:	JTP	
Scale:	1"=20'	
Date:	11-1-05	
Job No.:	M05055	

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Prepared by:
CPH, Inc.
[illegible]
[illegible]
Licensed:
Reg. C.O.A. No. [illegible]
Illinois L.D. No. [illegible]
Arch. Lic. No. [illegible]
Landscape Lic. No. [illegible]

PD LAYOUT PLAN MAP

PROPOSED RESTAURANT

1396 W. UNIVERSITY AVENUE
CITY OF GAINESVILLE / FLORIDA

Sheet No.
C-1

EXHIBIT D

CONCEPTUAL ARCHITECTURAL & SIGNAGE ELEVATIONS

CORNER ELEVATION
W UNIVERSITY AVENUE & NW 12th TERRACE

ELEVATION
NW 12th TERRACE

ELEVATION (NON Drive-Thru)
W UNVERSITY AVENUE

ELEVATION
NW 12th TERRACE

DRIVE-THRU ELEVATION

McDonald's

McDonald's

McDonald's
1206

McDonald's
1205

D-10

McDonald's

Next Gen Monument Sign with Feature Panels

Everbrite

Illumination: LED

Electrical: 4.8 Amps @ 120 Volts

Power Supply: Agilight PS12-60W-100/277V

Face Detail: Laser cut aluminum faces with illuminated push thru arch.

Maximum Copy Area: 62.5 s.f.

Maximum Height: 10-ft

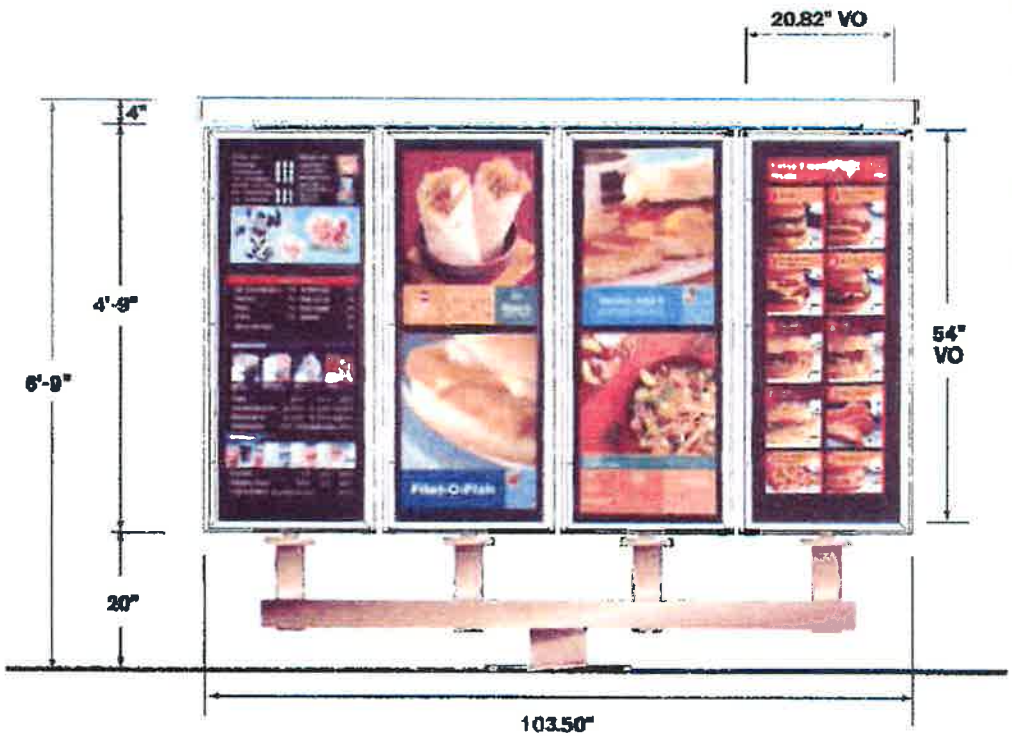
Base provided by others

Available Panels -

D-12

OPO Outdoor Menu Board

Everbrite
Identity Systems Division



Illumination: LED

Electrical: First Circuit: 120/1/60, 15 amp
Second Circuit: 120/1/60,15 amp

Ship Weight: 1,313 lbs.

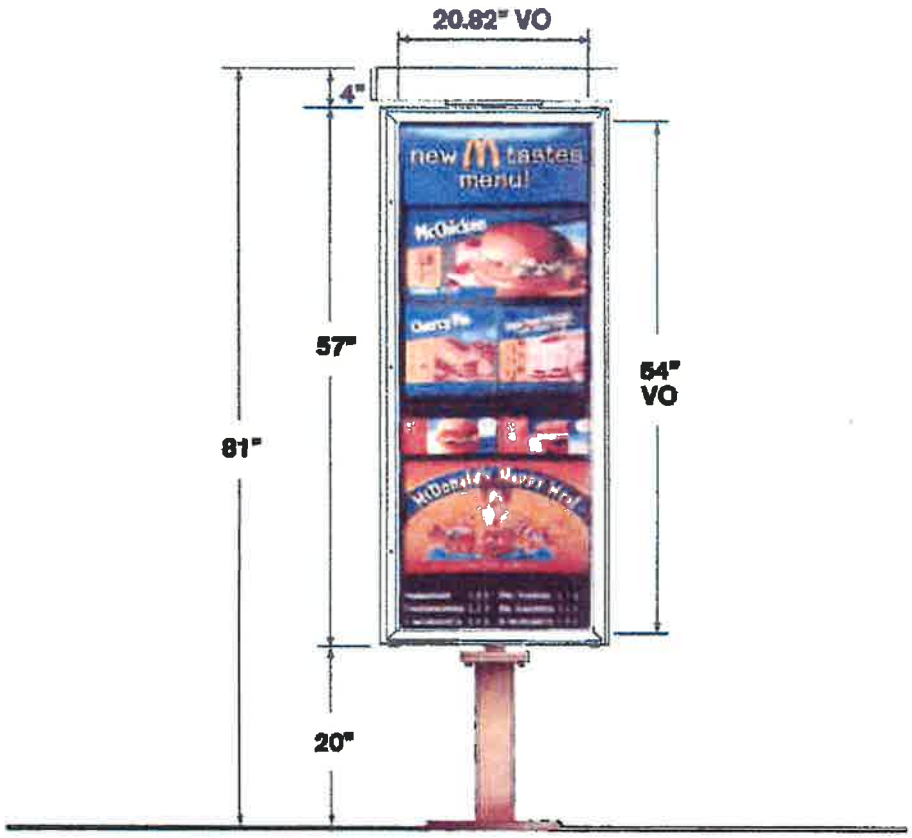
Other:

- Please call IMS for graphics, 800-937-7671
- Triangular design for increased graphic options
- Available in an manual or automated version.
  Automated version must be ordered directly from Florida Plastics.

Everbrite, LLC, 315 Marion Ave., South Milwaukee, WI, 53172 P: 888-857-4078 F: 877-430-7363 www.everbrite.com

OPO Pre-Sell Board

Everbrite
Identity Systems Division



Illumination: LED

Electrical: First Circuit: 120/1/60, 15 amp
Second Circuit: 120/1/60, 15 amp

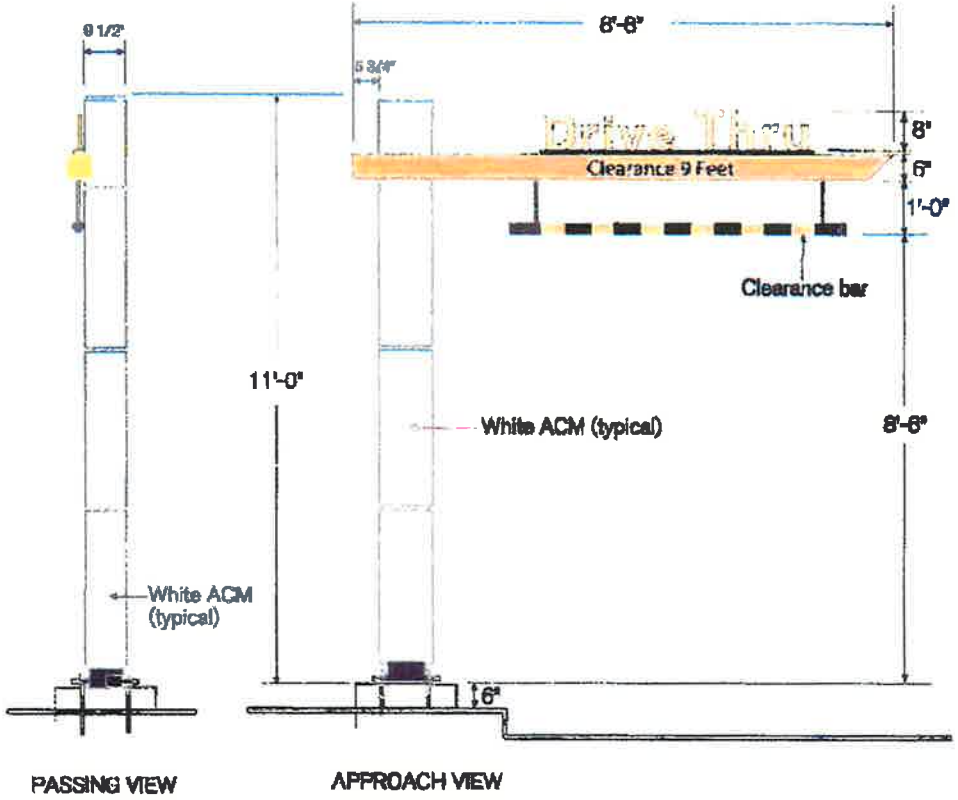
Ship Weight: 243 lbs.

Other:

- Please call IMS for graphics, 800-937-7671
- Triangular design for increased graphic options
- Available in an manual or automated version.
  Automated version must be ordered directly from Florida Plastics.

Everbrite, LLC, 315 Marion Ave., South Milwaukee, WI, 53172 P: 888-857-4078 F: 877-430-7363 www.everbrite.com

Welcome Point Gateway



Illumination: N/A

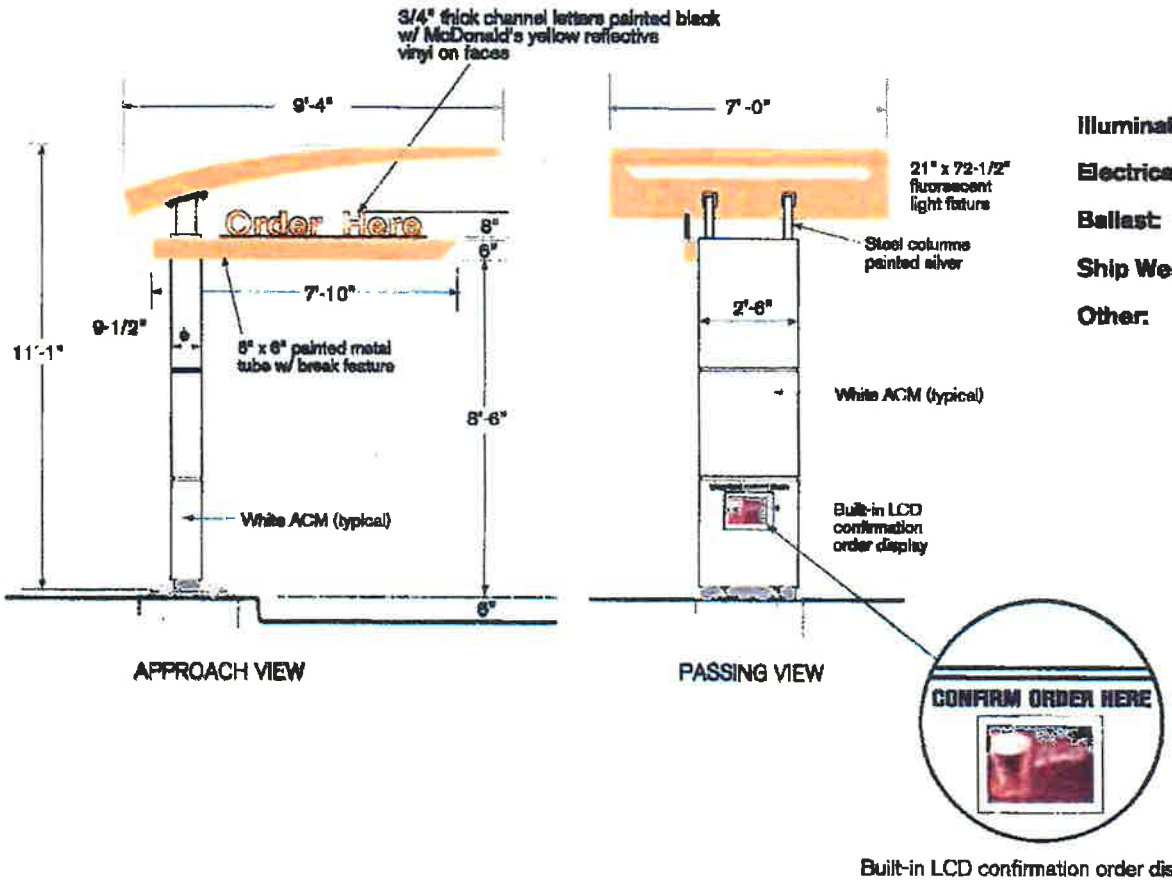
Ship Weight: 790 lbs.

Other:
- Non-illuminated clearance sign with spring loaded break away clearance arm.
- Adjustable bang bar.

Everbrite, LLC, 315 Marion Ave., South Milwaukee, WI, 53172 P: 888-857-4078 F: 877-430-7363 www.everbrite.com

Drive-Thru Twin Pole Canopy w/ Built-In COD (Preferred)

LCD Confirmation Order Display



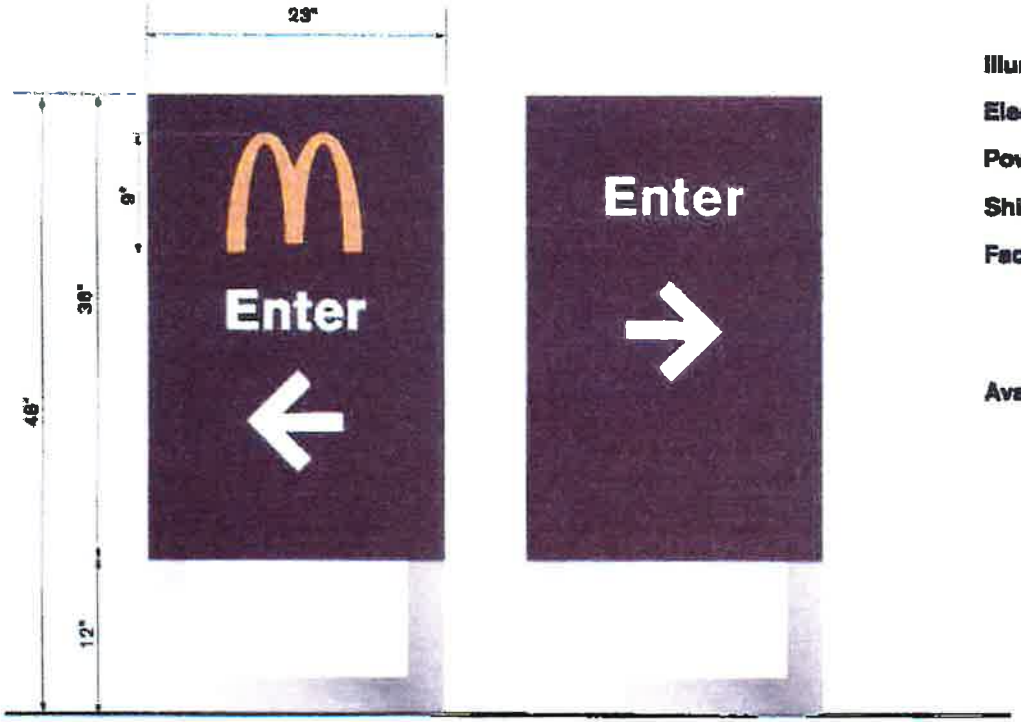
Built-in LCD confirmation order display

Illumination:	4 - F72T12 CW/HO
Electrical:	15 Amp 120 Volt
Ballast:	Fulham Workhorse 7
Ship Weight:	1300 lbs.
Other:	• Available with LED or LCD COD. • Spring loaded swing away 9' clearance arm • Illuminated awning provides a customer safe environment at night and protection from inclement weather

Everbrite, LLC, 315 Marion Ave., South Milwaukee, WI, 53172 P: 888-857-4078 F: 877-430-7363 www.everbrite.com

Next Gen Directional

Everbrite
Identity Systems Division



Directional with Arch

Directional with out Arch

Illumination:	LED
Electrical:	.25 amps
Power Supply:	Amperor ANP90-30P1
Ship Weight:	130 lbs.
Face Details:	Laser cut aluminum faces painted charcoal, white illuminated copy and arrow. Optional illuminated gold arch.
Available Copy:	Enter Exit Welcome Thank You Drive-Thru

Everbrite, LLC, 315 Marion Ave., South Milwaukee, WI, 53172 P: 888-857-4078 F: 877-430-7363 www.everbrite.com

Appendix C

Supplemental Documents

Razvi Enterprises, LLC
6614 NW 50th Lane
Gainesville, FL 32653

RECEIVED SEP 2 2015

August 28, 2015

Ms. Bedez E. Massey, Planner
City of Gainesville
Planning & Development Services Department
306 NE 6th Avenue
Thomas Center, Building "B"
Gainesville, FL 32601
352-334-5023

RE: Withdrawal of Previous Application on Parcel 13996-000-000
Petition PB-14-68 SUP

Dear Ms. Massey:

Pursuant to your request under current petition PB-15-00069 (McDonald's) to formally withdraw previous applications existing on the property, please accept this letter as our *conditional* request to withdraw Petition PB-14-68 SUP (Development Order with Conditions). We request and acknowledge that the previous application shall be terminated upon the McDonald's project being approved. Additionally, we will not engage the City Staff with the previous application while the McDonald's project is under review. However, should the McDonald's project be disapproved by the City or terminated by Developer, the existing application will remain active until its original expiration date.

Sincerely,
Razvi Enterprises, LLC

State of Florida
County of _____

Sworn to and subscribed before me this 2nd day of September, 2015,
by _____.

Linda Adams
Notary Public

Notary Public State of Florida
Linda Adams
My Commission FF 156119
Expires 09/02/2018

Personally Known
Produced Identification
ID Type _____

EXHIBIT
C-1

Appendix D

Technical Review Committee Conditions

City Technical Review Committee Recommended Conditions for McDonald's Minor Development Plan (Petition AD-16-02 SPL) May 3, 2016 Submittal

Current Planning (Approvable with conditions):

1. The building setbacks on Sheet C-6 must be revised, so that they are consistent with the dimensional requirements in the PD Report. While the PD Report is under the review of the City Attorney's Office, the applicant may find it necessary to request modifications to the dimensional requirements currently within the PD Report in order to achieve the layout shown on the development plan. Potential modifications to the landscape zone, sidewalk zone and build-to-line requirements in Table 4 of the PD Report were e-mailed to the project engineer on January 26, 2016. **The provided building setback on W. University Avenue under Site Data appears to be larger than the 3ft. shown in the table. Please correct. The closest point of the building from back of curb on NW 12th Street and W University Avenue must be provided in the building setback table. This relates to the proposed Planned Development's minimum landscape zone width on local streets w/out tree grates (i.e., 9 ft.), and the minimum build-to-line on local streets (9 ft.).**

2. The landscape buffer along NW 12th Street does not meet the minimum 9 ft. width required in Table 4 of the PD Report on the south end, just before the proposed steps. **This condition has not been met and will require a board-approved modification of the PD's 9 ft. minimum landscape zone standard for local streets. The May 3, 2016 submittal did not include a written request for a board-approved modification of this requirement, as allowed within the proposed Planned Development.**

3. Within the City's UMU-2 zoning district, the minimum required build-to-line dimension is the sum of the minimum required landscape zone dimension plus the minimum required sidewalk zone dimension (i.e., 15 ft.). Although the southeast corner of the proposed building does not meet a minimum build-to-line of 15 ft., at this location, a waiver from the build-to-line requirement is allowed within the PD. Even though the applicant may choose to keep the minimum build-to-line for nonresidential uses at 9 ft., the minimum required landscape zone dimension is still not met, as indicated in Item 2 above, and a board-approved waiver will be necessary. There are also areas along the west side of the vehicular use area that do not meet the minimum 9 feet required for the landscape zone and/or perimeter buffer. **The minimum build-to-line dimension for local streets in Table 4 of the PD Report should be shown as 15 feet because the development plan shows the applicant will still need board approval to modify the minimum required 9 ft. landscape zone width. The required build-to-line from back of curb on local streets in the proposed Planned Development is now 9 ft. on local streets. Therefore, the closest point of the building from back of curb on NW 12th Street must be provided in the building setback table. This dimension must be at least 9 ft. or the applicant must obtain a board-approved modification, as allowed in the proposed Planned Development.**

4. Sheet C-6 must show the dimensions that verify minimum requirements of the PD have been met and maximum requirements have not been exceeded. For example, the applicant must show the

proposed build-to-lines and the dimensions representing the minimum and maximum widths of required landscape zones and sidewalk zones. The outermost projection of building walls must be tied to the back of curb along each right-of-way. **This condition has not been met. See items 1 thru 3 above.**

5. All sheets of the development plan shall be signed and/or sealed, where required, prior to the plan receiving staff's signature.

6. Where the minimum 9 ft. perimeter landscape buffer for the vehicular use area is not met on the west side (Note: surface parking lots in UMU-2 are required to comply with the landscaping requirements in the City Land Development Code (LDC) for vehicular use areas), the applicant will have to request a board-approved reduction in accordance with the criteria in Section 30-252(1) b. of the LDC. C**urbing cannot be included in the width shown (i.e., 2.57'). Please indicate on Sheet C-6 of the development plan whether dimensions have been measured either from the back of curb or face of curb), where applicable.**

7. Please be reminded to modify the existing zoning indicated on Sheet C-6 following the second reading of the PD Ordinance.

8. There is a maximum vehicle parking standard in the UMU-2 zoning district (1 per 400 square feet of gross floor area). Please provide the calculations on Sheet C-6 that show compliance with this standard. Bike parking is required at a rate of one space per 2,000 square feet of gross floor area. Please also show bike parking calculations. The parking standard for mopeds must also be shown. Since scooter parking is not required for nonresidential uses in the UMU-2 zoning district, the applicant may want to consider using the motorcycle parking standard currently in the LDC. **The last revised PD Report states that the maximum automobile parking spaces allowed is based upon the following standard: 1 space per 200 sf of gross floor area. Therefore, please correct the development plan accordingly. Please also be consistent in stating on the development plan whether *motorcycle* vs. *moped* spaces are proposed. The standard for motorcycle spaces, which is 1 space per 40 vehicle spaces, must be shown. The bike rack detail appears to provide more spaces than what is shown in the parking information (i.e., 0). The development plan appears to show only 3 motorcycle spaces. Please correct.**

9. ~~The landscape island on the development site that runs parallel to the local streets is too narrow. The LDC requires at least 8 feet in width~~.

10. ~~The landscape island near proposed steps on the north side of the proposed buildings is too narrow. At least 144 square feet is required~~.

11. ~~Details of the wall proposed along the north property line shall be provided on the development plan~~.

12. A staging plan for development activities shall be included with the development plan. **Please note need to coordinate with Tim Ramsey of ACDEP, as necessary, regarding abandonment of any onsite monitoring wells or contaminated soils. The development plan shall include a construction staging plan.**

13. ~~A photometric plan meeting the lighting requirements in Section 30-344 of the LDC shall be included in the development plan, along with~~ a lighting narrative that is prepared in accordance with Item (f) (1) of this Section. Cut-sheets of proposed lighting shall also be provided. ~~The photometric plan provided shows light trespass and other lighting minimums that exceed the maximum foot-candles allowed in parking lots that are w/n 75 feet of property that contains a residential dwelling or has residential zoning. Please expand the light trespass readings further west.~~ The photometric plan must also incorporate lighting proposed on the building exterior. Required building elevations shall illustrate the location of exterior lighting. **The lighting narrative addressing Item (f) (1) thru (11) of Sec. 30-344; the manufacturer's cut-sheets; and lighting calculations for the building exterior were not provided. Calculations were not provided showing the average vertical illuminance, measured 5 feet above the height of luminaires in the parking lot, does not exceed 1.0 foot-candles. Also, elevations showing the location of light fixtures on the building exterior were not provided. A note indicating light fixtures will be of the "non-tilt" type should also be indicated on the photometric plan. A lighting narrative shall be provided addressing Item (f) (1) thru (11) of Sec. 30-344, as part of the photometric plan submission. The responses can be provided on the photometric plan or submitted as a separate document. Lighting calculations showing compliance with the City's lighting requirements for building exterior lighting must be provided. Cut-sheets for building exterior lighting must be provided. Building elevations showing the location of light fixtures on the building exterior shall be provided. Calculations shall be provided showing the average vertical illuminance, measured 5 feet above the height of luminaires in the parking lot, does not exceed 1.0 foot-candles. Lights shall be of the full cut-off type.**

14. Please be reminded that signage is permitted separately.

15. Please provide colored renderings of the proposed building and, if possible, a sample board of exterior building materials. **24" x 36" copies of the building elevations and floor plan shall be included in the revised development plan on a designated cut-off date.**

16. ~~Please provide a call-out for the roofline, inclusive of canopies.~~

17. ~~Please specify the maximum height of the proposed building on Sheet C-6.~~

18. ~~Note 13 on Sheet C-5 states that the existing wall along the north property line will be maintained. Please explain, since Note 10 on Sheet C-6 indicates that an 8 ft. fence is proposed along the north property line.~~ ~~**This condition has not been addressed.**~~

19. ~~Note 16 on Sheet C-6 references details of the trash corral, but none have been found. Please be reminded that the enclosure must be equipped with latching gates.~~

20. ~~A single-trunk crepe myrtle is recommended on the south end of the landscape island separating the drive-through lanes.~~

21. ~~Additional landscape area is required between the sidewalk on NW 12th Street and the east side of the proposed building. The provision of a single concrete pad, meeting FBC dimensional requirements, is recommended as an alternative to the span of concrete currently shown outside of the northernmost door swing on the east side of the proposed building. Also see Item 3 above.~~ ~~**See Items 3 and 4 above. Shrubs recommended where liriope is proposed due to anticipated foot traffic near sidewalk.**~~

22. ~~Trees should be shifted closer to the edge of the terminal landscape islands in the vehicular use area in order to maximize the amount of shade cast onto the adjacent impervious areas. This includes the northernmost Winged Elm proposed on the south side of the NW 12th Terrace driveway. This condition has not been met~~.

Concurrency (No comments):

Urban Forestry (No comments)

Fire (Approvable as submitted)

Public Works (No comments):

GRU (No comments):

Building Inspections (No comments)

Alachua County Environment Protection Dept. (Approvable with conditions)

Gainesville Police Department (No comments):

Appendix E

Development Plan

AD-16-2 SPL
McDonald's
1206 W University Ave

CONSTRUCTION PLANS FOR MACS RELO

McDonald's®

1206 W UNIVERSITY AVENUE
CITY OF GAINESVILLE, FLORIDA
PARCEL ID: 13996-000-000
STORE No. 009-2618

LOCATION MAP

ALACHUA COUNTY, FLORIDA
SECTION 5-TOWNSHIP 10 SOUTH-RANGE 20 EAST

cph
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Engineers
Environmental
Landscape Architects
M / E / P
Planners
Structural
Surveyors
Traffic / Transportation
Offices In:
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- Puerto Rico
- Connecticut
- Maryland

WADE PRESTON OLSZEWSKI LICENSE No. 54068 STATE OF FLORIDA PROFESSIONAL ENGINEER

CONSULTANTS

DEVELOPER
McDONALD'S CORPORATION
10150 HIGHLAND MANOR DR. SUITE 470
TAMPA, FLORIDA 33610
(813) 630-9634
ATTN.: JAMES DUNKLE

ENGINEER
CPH, INC.
5200 BELFORT ROAD, SUITE 220
JACKSONVILLE, FLORIDA 32256
(904) 332-0999
ATTN.: WADE P. OLSZEWSKI, P.E.

SURVEYOR
CPH, INC.
500 WEST FULTON STREET
SANFORD, FLORIDA 32771
(407) 322-6841
ATTN.: PAUL J. KATREK, PSM

ARCHITECT
CPH, INC.
500 WEST FULTON STREET
SANFORD, FLORIDA 32771
(407) 322-6841
ATTN.: JOHN A. BAER, AIA, NCARB, LEED AP

GEOTECHNICAL
UNIVERSAL ENGINEERING SCIENCES, INC.
4475 SW 35TH TERRACE
GAINESVILLE, FLORIDA 32608
(352) 372-3392
ATTN.: EDUARDO SUAREZ, P.E.

TRAFFIC
CPH, INC.
5601 MARINER STREET
TAMPA, FLORIDA 33609
(813) 288-0233
ATTN.: SANDRA GORMAN, P.E.

LANDSCAPE ARCHITECT
CPH, INC.
500 WEST FULTON STREET
SANFORD, FLORIDA 32771
(407) 322-6841
ATTN.: JAMES K. WINTER, RLA, CLARB

UTILITY PROVIDERS

ELECTRIC
GAINESVILLE REGIONAL UTILITIES
301 SOUTHEAST 4TH AVENUE
GAINESVILLE, FLORIDA 32614-7117
PHONE: (352) 393-1645
ATTN.: L. MALONE VINCENT
vincentlm@gru.com
ATTN.: JEANICE MORRIS
morrisjh@gru.com

TELEPHONE
AT&T
400 SOUTHWEST 2ND AVENUE
GAINESVILLE, FLORIDA 32601
PHONE: (352) 371-5280
ATTN.: GEORGE JOHNSON

WATER
GAINESVILLE REGIONAL UTILITIES
301 SOUTHEAST 4TH AVENUE
GAINESVILLE, FLORIDA 32614-7117
PHONE: (352) 393-1641
ATTN.: RUSS INGRAM

SEWER
GAINESVILLE REGIONAL UTILITIES
301 SOUTHEAST 4TH AVENUE
GAINESVILLE, FLORIDA 32614-7117
PHONE: (352) 393-1641
ATTN.: RUSS INGRAM

COMMUNICATIONS
COX CABLE ALACHUA
6020 NORTHWEST 43RD STREET
GAINESVILLE, FLORIDA 32653
PHONE: (352) 337-2052
ATTN.: GARY HARRELL

GRU COM
4747 NORTH MAIN STREET, BOX E1A
GAINESVILLE, FLORIDA 32609
PHONE: (352) 393-6923
ATTN.: MIKE CHAPPELL

NATURAL GAS
GAINESVILLE REGIONAL UTILITIES
301 SOUTHEAST 4TH AVENUE
GAINESVILLE, FLORIDA 32614-7117
PHONE: (352) 393-1466
ATTN.: MIKE BROWN

APPROVAL AGENCIES

SITE PLAN REVIEW
CITY OF GAINESVILLE, DEPARTMENT OF
PLANNING AND DEVELOPMENT
306 NORTHEAST 6TH AVENUE #B
GAINESVILLE, FLORIDA 32601-5476
PHONE: (352) 334-5023

HEALTH DEPARTMENT
FLORIDA DEPARTMENT OF BUSINESS &
PROFESSIONAL REGULATION, DIVISION OF
HOTELS & RESTAURANTS
1490 NORTH MONROE STREET
TALLAHASSEE, FLORIDA 32399
PHONE: (850) 487-1395

FLORIDA DEPARTMENT OF TRANSPORTATION
GAINESVILLE MAINTENANCE OFFICE
5301 NORTHEAST 39TH AVENUE
GAINESVILLE, FLORIDA 32604
PHONE: (352) 331-4300
FAX: (352) 331-4305
ATTN.: ROBBIE EMMONS

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
4049 REID STREET
PALATKA, FLORIDA 32177
PHONE: (386) 312-2313
ATTN.: CHOU FANG

LEGAL DESCRIPTION

A PORTION OF LOT 1 AND ALL OF LOTS 2, 6 AND 7, UNIVERSITY TERRACE, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK "A", AT PAGE 115 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA, BEING DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF LOT 1, UNIVERSITY TERRACE, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK "A", AT PAGE 115 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA; THENCE RUN SOUTH 89°22'25" WEST ALONG THE SOUTH LINE OF SAID LOT 1 A DISTANCE OF 5.00 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE SOUTH 89°22'25" WEST ALONG THE SAID SOUTH LINE OF LOT 1 AND THE SOUTH LINE OF LOT 2 OF SAID PUBLIC RECORDS A DISTANCE OF 120.00 FEET TO THE SOUTHWEST CORNER OF SAID LOT 2; THENCE NORTH 00°42'56" WEST ALONG THE WEST LINE OF LOTS 2, 6 AND 7 OF SAID PUBLIC RECORDS A DISTANCE OF 223.69 FEET TO THE NORTHWEST CORNER OF SAID LOT 7; THENCE RUN NORTH 89°22'25" EAST ALONG THE NORTH LINE OF LOT 7 A DISTANCE OF 125.08 FEET TO THE NORTHEAST CORNER THEREOF; THENCE SOUTH 00°41'40" EAST ALONG THE EAST LINE OF SAID LOTS 1, 6 AND 7 A DISTANCE OF 213.69 FEET TO A POINT LYING 10 FEET NORTHERLY OF THE SOUTHEAST CORNER OF LOT 1; THENCE RUN SOUTH 25°53'03" WEST A DISTANCE OF 11.18 FEET TO THE POINT OF BEGINNING.

CONTAINING 27,945 SQ. FT. OR 0.64 ACRE MORE OR LESS.

VICINITY MAP

NOTES

THE DEVELOPMENT SHALL COMPLY WITH THE FLORIDA FIRE PREVENTION CODE [GAINESVILLE FIRE PREVENTION AND PROTECTION CODE SECTION 10-5(a) & (b)].

FIRE HYDRANTS AND STABILIZED SURFACES SHALL BE IN SERVICE PRIOR TO THE ACCUMULATION OF COMBUSTIBLES ON SITE. [GAINESVILLE FIRE PREVENTION AND PROTECTION CODE SECTION 10-9 (NFPA 1-16.4.3)]

IN-BUILDING PUBLIC SAFETY RADIO ENHANCEMENT SYSTEMS SHALL BE PROVIDED IN ALL BUILDINGS WHERE MINIMUM RADIO SIGNAL STRENGTH FOR FIRE DEPARTMENT COMMUNICATIONS IS NOT ACHIEVED AT A LEVEL DETERMINED BY THE AHJ. IT IS HIGHLY RECOMMENDED THAT DEVELOPERS EVALUATE AND ADDRESS THE POTENTIAL NEED FOR IBPRES IN THE EARLY STAGES OF PROJECT PLANNING. FOR ADDITIONAL SPECIFIC REQUIREMENTS PERTAINING TO SIGNAL STRENGTH, COVERAGE, MAINTENANCE AND TESTING REFER TO NFPA 72-14.4.12 AND 24.5.2. [GAINESVILLE FIRE PREVENTION AND PROTECTION CODE SECTION 10-9 (NFPA 1-11.10)]

THE OWNER OR THE OWNER'S AUTHORIZED AGENT SHALL DEVELOP A FIRE SAFETY PROGRAM TO ADDRESS ALL ESSENTIAL FIRE AND LIFE SAFETY REQUIREMENTS FOR THE DURATION OF DEMOLITION, ALTERATION AND CONSTRUCTION. AS SPECIFIED IN THE FLORIDA FIRE PREVENTION CODE, INCLUDING NFPA 241, THE FIRE SAFETY PROGRAM SHALL INCLUDE AN EMERGENCY RESPONSE PLAN, AS WELL AS IDENTIFYING FIRE PREVENTION PRECAUTIONS, SITE AND BUILDING EMERGENCY ACCESS ROUTES, TEMPORARY AND PERMANENT WATER SUPPLIES, BUILDING EGRESS ROUTES, GOOD HOUSEKEEPING PRACTICES, AND FIRE PROTECTION SYSTEM INSTALLATION AND MAINTENANCE. [GAINESVILLE FIRE PREVENTION AND PROTECTION CODE SECTION 10-9 (NFPA 1-16)]

THIS PROJECT LIES WITHIN ZONE A OF THE CITY'S TRANSPORTATION MOBILITY PROGRAM AREA AND WILL MEET THE PROVISIONS OF TRANSPORTATION MOBILITY ELEMENT POLICIES 10.1.4.

WATER AND WASTEWATER DESIGN IS IN ACCORDANCE WITH GRU DESIGN STANDARDS.

ELECTRIC DESIGN PROVIDED BY GRU ENERGY DELIVERY. (TBD)

FOR REVIEW ONLY

EXISTING AREA CALCULATIONS

BUILDING AREA:	0 S.F.	
PERVIOUS AREA:	16,952 S.F.	(61%)
IMPERVIOUS AREA:	10,993 S.F.	(39%)
TOTAL:	27,945 S.F.	

PROPOSED AREA CALCULATIONS

BUILDING AREA:	4,686 S.F.	
PERVIOUS AREA:	5,157 S.F.	(18%)
IMPERVIOUS AREA:	18,102 S.F.	(65%)
TOTAL:	27,945 S.F.	

LOWEST DISCHARGE ELEVATION: 164.00

RETENTION VOLUME BELOW LOWEST DISCHARGE ELEVATION: 851.40 CF

RETENTION AREA AT LOWEST DISCHARGE ELEVATION: 4,257 SF

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INDEX OF SHEETS

C-1 COVER SHEET
C-2 GENERAL NOTES
1 SURVEY COVER
2 BOUNDARY AND TOPOGRAPHIC SURVEY
C-3 STORMWATER POLLUTION PREVENTION PLAN
C-4 STORMWATER POLLUTION PREVENTION DETAILS
C-5 SITE DEMOLITION PLAN
C-6 SITE DIMENSION PLAN
C-7 GRADING AND STORM DRAINAGE PLAN
C-8 COMPOSITE UTILITY PLAN
C-9 SECTIONS SHEET
C-10 GENERAL DETAILS
C-11 McDONALD'S DETAILS
C-12 UTILITY DETAILS
C-13 UNDERGROUND STORMWATER DETAILS
C-14 REFUSE ENCLOSURE DETAIL SHEET
LP-1 LIGHTING PLAN
L-1 LANDSCAPE PLAN
L-2 LANDSCAPE NOTES AND DETAILS
*IR-1 IRRIGATION PLAN
*IR-2 IRRIGATION NOTES AND DETAILS

* = NOT INCLUDED
CITY SUBMITTAL #3 5-2-16

NOTICE
THE SIZE OF THESE PLANS MAY HAVE BEEN SLIGHTLY ALTERED BY REPRODUCTION PROCESSES. THIS MUST BE CONSIDERED WHEN SCALING ANY REPRODUCED PLANS FOR THE PURPOSE OF COLLECTING DATA.

McDONALD'S PROJECT CODE: 009-2618

No.	Date	Revision	By

Designed by: C.O.B.
Drawn by: P.W.R.
Checked by: B.P.C.
Approved by: W.P.O.
Scale: AS SHOWN
Date: 12-15-15
Job No.: M29955
© 2016

Plans Prepared By:
CPH, Inc.
5200 Belfort Rd., Suite 220
Jacksonville, FL 32256
Ph: 904.332.0999
Licenses:
Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. AA2600026
Landscp. Lic. No. LC0000298

COVER SHEET

McDonald's®
MACS RELO
CITY OF GAINESVILLE / FLORIDA

Sheet No.
C-1

RECEIVED MAY 3 2016

J:\M29955\Civil\DWG\Design\M29955-COVER.dwg Apr 29, 2016 - 2:56pm dschneider

GENERAL PROVISIONS

1. THE CONTRACTOR SHALL OBTAIN FROM THE OWNER COPIES OF ALL AVAILABLE REGULATORY AGENCY PERMITS AND LOCAL AGENCY PERMITS.
2. ALL CONSTRUCTION PROJECTS 1 OR MORE ACRES IN SIZE THAT DISCHARGE TO OFFSITE AREAS ARE REQUIRED TO COMPLY WITH THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR STORMWATER DISCHARGE FROM SMALL AND LARGE CONSTRUCTION ACTIVITIES. [illegible]
3. UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL USE THE GEOMETRY PROVIDED ON THE CONSTRUCTION PLANS. [illegible] ATTENTION OF THE ENGINEER IMMEDIATELY.
4. BASE SURVEY INFORMATION INCLUDING BUT NOT LIMITED TO ELEVATIONS, EASEMENTS, RIGHTS OF WAY, AND OTHER TOPOGRAPHIC INFORMATION MAY HAVE BEEN PREPARED BY OTHER PROFESSIONALS. CPH ENGINEERS, INC. ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS INFORMATION.
5. [illegible]
6. THE CONTRACTOR SHALL SUBMIT [illegible] COPIES OF SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING THE MATERIALS REQUIRED FOR CONSTRUCTION. [illegible]
7. PROTECT BENCHMARKS, PROPERTY CORNERS, AND OTHER SURVEY MONUMENTS FROM DAMAGE OR DISPLACEMENT. [illegible]
8. THE CONTRACTOR IS RESPONSIBLE FOR ALL QUALITY CONTROL TESTING. [illegible]
9. IN ADDITION TO QUALITY CONTROL TESTING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REQUIRED TESTING OR APPROVALS [illegible] APPROVAL.
10. ANY DESIGN OR TESTING LABORATORY UTILIZED BY THE CONTRACTOR SHALL BE AN INDEPENDENT LABORATORY ACCEPTABLE TO THE OWNER AND THE ENGINEER, APPROVED IN WRITING, AND COMPLYING WITH THE LATEST EDITION OF THE "RECOMMENDED REQUIREMENTS FOR INDEPENDENT LABORATORY QUALIFICATION" PUBLISHED BY THE AMERICAN COUNCIL OF INDEPENDENT LABORATORIES.
11. TESTING RESULTS SHALL BE PROVIDED TO THE OWNER/OPERATOR AND THE ENGINEER. ALL TEST RESULTS SHALL BE PROVIDED (PASSING AND FAILING) ON A REGULAR AND IMMEDIATE BASIS.
12. THE ENTIRE PROJECT SITE SHALL BE THOROUGHLY CLEANED AT THE COMPLETION OF THE WORK. [illegible]
13. ALL CONSTRUCTION AND CONSTRUCTION RELATED ACTIVITIES SHALL COMPLY WITH SECTION 30-343 OF THE CITY OF GAINESVILLE, FLORIDA CODE OF ORDINANCES.

UTILITY GENERAL NOTES

1. THE UTILITY DATA SHOWN ON THESE PLANS WAS LOCATED BY THE RESPECTIVE UTILITY, OR IS BASED ON UTILITY DRAWINGS, MAPS, OR FIELD RECONNAISSANCE.
2. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE [illegible]
3. A SINGLE POINT UTILITY IDENTIFICATION SERVICE HAS BEEN SET UP FOR EXISTING UTILITIES. [illegible]
4. THE CONTRACTOR SHALL KEEP LOCATE TICKETS UP TO DATE AT ALL TIMES.
5. [illegible]
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN IN SERVICE ALL EXISTING PIPING ENCOUNTERED DURING CONSTRUCTION [illegible]
7. THE CONTRACTOR SHALL FIELD LOCATE ALL WATER AND SEWER SERVICES AND LATERALS WITHIN THE PROPOSED CONSTRUCTION AREA PRIOR TO CONSTRUCTION AND ADJUST THE PROPOSED CONSTRUCTION AS NEEDED TO ACCOMMODATE THESE EXISTING LINES.
8. TYPICAL DETAILS AND PROPOSED CONSTRUCTION AS SHOWN ILLUSTRATE THE ENGINEER'S INTENT AND ARE NOT PRESENTED AS A SOLUTION TO ALL CONSTRUCTION PROBLEMS ENCOUNTERED IN THE FIELD. [illegible]
9. FOR EACH RESPECTIVE PIPELINE CONSTRUCTION REQUIRED, THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, DEPTH, AND ALIGNMENT OF ALL EXISTING PIPES, CABLES, ETC. [illegible]
10. THE CONTRACTOR SHALL FIELD LOCATE ALL WATER AND SEWER SERVICES AND LATERALS WITHIN THE PROPOSED CONSTRUCTION AREA PRIOR TO CONSTRUCTION AND ADJUST THE PROPOSED CONSTRUCTION AS NEEDED TO ACCOMMODATE THESE EXISTING LINES.
11. THE CONTRACTOR SHALL PROVIDE AT HIS OWN EXPENSE ALL NECESSARY TEST PUMPING EQUIPMENT, WATER, WATER METERS, PRESSURE GAUGES, AND OTHER EQUIPMENT, MATERIAL AND FACILITIES REQUIRED FOR ALL HYDROSTATIC, LEAKAGE, AND PRESSURE TESTING. [illegible]

AS-BUILT DRAWING REQUIREMENTS

1. AS-BUILT DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER THREE WEEKS PRIOR TO FINAL INSPECTION. ALL AS-BUILT DATA SHALL BE PROVIDED BY A FLORIDA LICENSED SURVEYOR, SIGNED, SEALED AND DATED BY THE RESPONSIBLE PARTY.
2. AT THE COMPLETION OF THE WORK, DELIVER THE DRAWINGS DOCUMENTING AS-BUILT INFORMATION, ACQUIRED BY A LICENSED SURVEYOR, TO THE ENGINEER, IN GOOD CONDITION AND FREE FROM ANY EXTRANEOUS NOTATION. THE AS-BUILT INFORMATION IS TO INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
   - A. HORIZONTAL LOCATIONS AND VERTICAL ELEVATIONS FOR ALL UTILITY AND STORM STRUCTURES INCLUDING BUT NOT LIMITED TO MANHOLES, INLETS AND CLEANOUTS, INCLUDING STRUCTURE TOP AND INVERT ELEVATIONS.
   - B. DISTANCE ALONG PIPELINES BETWEEN STRUCTURES.
   - C. STORMWATER POND TOP OF BERM AND POND BOTTOM ELEVATIONS AND HORIZONTAL DIMENSIONS MEASURED AT A MINIMUM OF TEN LOCATIONS PER POND, AT LOCATIONS DESIGNATED BY THE ENGINEER. TOP OF POND HORIZONTAL DIMENSIONS ARE ALSO TO BE TIED TO PROPERTY CORNERS, EASEMENTS, AND RIGHTS-OF-WAY.
   - D. STORMWATER CONTROL STRUCTURE DIMENSIONS AND ELEVATIONS, INCLUDING ALL WEIRS, SLOTS, ORIFICES, GRATES, AND SKIMMERS.
   - E. STORMWATER CONVEYANCE SYSTEMS INCLUDING DIMENSIONS, ELEVATIONS, CONTOURS, AND CROSS SECTIONS.
   - F. HORIZONTAL LOCATIONS AND VERTICAL ELEVATIONS OF ALL UTILITY VALVES, FITTINGS, CONNECTION POINTS, ETC.
   - G. VERTICAL ELEVATIONS OF ALL PIPELINES AT CROSSINGS OF POTABLE WATER MAINS (WHETHER THE WATER MAIN IS EXISTING OR NEW) IN ORDER TO DOCUMENT THAT THE MINIMUM REQUIRED VERTICAL SEPARATION HAS BEEN MET.
   - H. UTILITY PIPELINE TIED HORIZONTALLY TO EDGE OF PAVEMENT AND RIGHT-OF-WAY LINES, LOCATED EVERY 200-FT PLUS ALL CHANGES IN HORIZONTAL OFFSET.
   - I. PAVEMENT WIDTH AND ELEVATIONS AT THE CENTERLINE AND EDGE OF PAVEMENT EVERY 200 FEET PLUS AT ALL CHANGES IN LONGITUDINAL SLOPE, CROSS SLOPE, INLET LOCATIONS, AND AT ALL DRIVEWAY AND STREET INTERSECTIONS. [illegible]
   - J. ALL PARKING AREAS AND SIDEWALK RAMPS DESIGNATED FOR HANDICAP ACCESS SHALL CONTAIN HORIZONTAL AND VERTICAL MEASUREMENTS IN ORDER TO VERIFY REQUIRED WIDTHS AND SLOPES HAVE BEEN MET.
   - K. HORIZONTAL AND VERTICAL DATA FOR ANY CONSTRUCTION THAT DEVIATES FROM THE APPROVED ENGINEERING DRAWINGS.
   - L. WHERE THE PLANS CONTAIN SPECIFIC HORIZONTAL LOCATION DATA, SUCH AS STATION AND OFFSET, THE AS-BUILT DRAWINGS ARE TO REFLECT THE ACTUAL HORIZONTAL LOCATION.
   - M. WHERE THE PLANS CONTAIN SPECIFIC VERTICAL ELEVATION DATA, THE AS-BUILT DRAWINGS ARE TO REFLECT THE ACTUAL MEASURED VERTICAL ELEVATION.

EROSION AND SEDIMENT CONTROL

SEE SHEETS C-3 THRU C-4

TRAFFIC CONTROL

1. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING & MAINTENANCE OF TRAFFIC (M.O.T.) PLAN PRIOR TO CONSTRUCTION. [illegible]
2. ALL CONSTRUCTION SIGNING AND MARKINGS SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND MAINTAINED DURING CONSTRUCTION IN ACCORDANCE WITH FDOT INDEX NO. 600 AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). [illegible]
3. INSPECT TRAFFIC CONTROL DEVICES ON A DAILY BASIS TO ENSURE PLACEMENT OF BARRICADES AND FUNCTION OF LIGHTS IS MAINTAINED THROUGHOUT CONSTRUCTION.
4. CONTACT PROPERTY OWNERS AFFECTED BY CONSTRUCTION. COORDINATE TEMPORARY DRIVEWAY CLOSURES AND SEQUENCING. MAINTAIN ACCESS FOR ALL PROPERTY OWNERS DURING CONSTRUCTION.
5. WET UNSTABILIZED AREAS AS NECESSARY TO CONTROL DUST.
6. ADJUST TRAFFIC CONTROL DEVICES AS REQUIRED UNDER EMERGENCY CONDITIONS.
7. THE CONTRACTOR IS EXPECTED TO COORDINATE ITS ACTIVITIES WITH OTHER CONTRACTORS WHO MAY BE WORKING IN THE IMMEDIATE VICINITY.
8. WHEN WORK OCCURS WITHIN 15 FT OF ACTIVE ROAD TRAVEL LANES BUT NO CLOSER THAN 2 FT FROM THE EDGE OF PAVEMENT, SIGNAGE AND WARNING DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH FDOT INDEX NO. 600 AND 602.
9. TYPE II OR TYPE III BARRICADES AT 20-FT CENTERS SHALL BE PLACED AND MAINTAINED ALONG THE EDGE OF THE ROAD [illegible]

SITE PREPARATION

1. UNLESS OTHERWISE DIRECTED BY THE OWNER OR ENGINEER, THE CONTRACTOR IS EXPECTED TO CONTAIN ALL CONSTRUCTION ACTIVITIES WITHIN THE PROPERTY, RIGHT-OF-WAY, AND EASEMENTS AS INDICATED ON THE DRAWINGS. [illegible]
2. STAKE OUT THE CONSTRUCTION, ESTABLISH LINES AND LEVELS, TEMPORARY BENCH MARKS, BATTER BOARDS, CENTERLINES, BASELINES, AND REFERENCE POINTS FOR THE WORK, AND VERIFY ALL DIMENSIONS RELATING TO INTERCONNECTION WITH EXISTING FEATURES. [illegible]
3. PROTECT ALL TREES AND SHRUBS LOCATED OUTSIDE THE RIGHT-OF-WAY, EASEMENTS, AND OWNER SECURED PROPERTY, PARTICULARLY THOSE TREES AND SHRUBS LOCATED ADJACENT TO WORK AREAS.
4. WITHIN THE RIGHT-OF-WAY, EASEMENTS, AND OWNER SECURED PROPERTY, THE INTENT IS TO ALLOW TREES AND SHRUBS TO REMAIN [illegible]
5. TREES TO REMAIN IN THE CONSTRUCTION AREA SHALL BE BOXED, FENCED OR OTHERWISE PROTECTED IN ACCORDANCE WITH DETAILS ON THE DRAWINGS. [illegible]
6. AREAS TO RECEIVE CLEARING AND GRUBBING SHALL INCLUDE ALL AREAS TO BE OCCUPIED BY THE PROPOSED IMPROVEMENTS, AREAS FOR FILL AND SITE GRADING, AND BORROW SITES. [illegible]
7. CLEARING SHALL CONSIST OF REMOVING TREES AND BRUSH AND DISPOSAL OF OTHER MATERIALS THAT ENCROACH UPON OR OTHERWISE OBSTRUCT THE WORK.
8. EXERCISE EXTREME CARE DURING THE CLEARING AND GRUBBING OPERATIONS. DO NOT DAMAGE EXISTING STRUCTURES, PIPES OR UTILITIES.
9. GRUBBING SHALL CONSIST OF REMOVING AND DISPOSING OF STUMPS, ROOTS LARGER THAN 2" IN DIAMETER AND MATTED ROOTS. REMOVE TO A DEPTH OF NOT LESS THAN 18" BELOW THE ORIGINAL SURFACE LEVEL OF THE GROUND.
10. ALL COMBUSTIBLE DEBRIS AND REFUSE FROM SITE PREPARATION OPERATIONS SHALL BE REMOVED TO LEGAL OFFSITE DISPOSAL AREAS.

DEWATERING

1. DESIGN AND PROVIDE DEWATERING SYSTEM USING ACCEPTED AND PROFESSIONAL METHODS CONSISTENT WITH CURRENT INDUSTRY PRACTICE. [illegible]
2. CONTROL, BY ACCEPTABLE MEANS, ALL WATER REGARDLESS OF SOURCE AND BE FULLY RESPONSIBLE FOR DISPOSAL OF THE WATER. [illegible]
3. OPEN PUMPING WITH SUMPS AND DITCHES SHALL BE ALLOWED, PROVIDED IT DOES NOT RESULT IN BOILS, LOSS OF FINES, SOFTENING OF THE GROUND, OR INSTABILITY OF SLOPES. [illegible]
4. IF DEWATERING EQUIPMENT NEEDED EXCEEDS ANY OF THE FOLLOWING:
   1) 6" PUMP VOLUTE;
   2) 100,000 GPD TOTAL (24 HOUR [1 DAY]) DEWATERING, AND;
   3) 1,000,000 GPD PUMP CAPACITY, THE CONTRACTOR SHALL BE REQUIRED TO PERMIT THE DEWATERING SYSTEM WITH THE WATER MANAGEMENT DISTRICT.
5. CONTINUOUSLY MAINTAIN EXCAVATIONS IN A DRY CONDITION WITH POSITIVE DEWATERING METHODS DURING PREPARATION OF SUBGRADE, INSTALLATION OF PIPE, AND CONSTRUCTION OF STRUCTURES [illegible]
6. WHEN CONSTRUCTION IS COMPLETE, REMOVE ALL DEWATERING EQUIPMENT FROM THE SITE, INCLUDING WELLS AND RELATED TEMPORARY ELECTRICAL SERVICE.

GRADING

1. GRADING SHOWN ON THESE PLANS IS PROVIDED TO THE CONTRACTOR TO EXPRESS THE GENERAL GRADING INTENT OF THE PROJECT. [illegible]
2. ALL PAVING SURFACES IN INTERSECTIONS AND ADJACENT SECTIONS SHALL BE GRADED TO DRAIN POSITIVELY AND TO PROVIDE A SMOOTHLY TRANSITIONED DRIVING SURFACE FOR VEHICLES [illegible]
3. UNIFORMLY SMOOTH GRADE THE SITE. DEPRESSIONS FROM SETTLEMENT SHALL BE FILLED AND COMPACTED. [illegible]
4. SLOPE GRADES TO DRAIN AWAY FROM STRUCTURES AT A MINIMUM OF 1/4 INCH PER FOOT FOR 10 FEET. [illegible]
5. NEWLY GRADED AREAS SHALL BE PROTECTED FROM TRAFFIC AND EROSION. [illegible]

EXCAVATION, TRENCHING, AND FILL

1. THE CONTRACTOR SHALL RECOGNIZE AND ABIDE BY ALL OSHA EXCAVATION SAFETY STANDARDS, INCLUDING THE FLORIDA TRENCH SAFETY ACT [illegible]
2. ROUGH EXCAVATE AND GRADE ANY PROPOSED STORMWATER PONDS AT THE START OF SITE GRADING ACTIVITIES. DIRECT SITE RUNOFF TO THE PONDS TO MINIMIZE RUNOFF TO OFFSITE AREAS.
3. POND CONSTRUCTION SHALL RESULT IN THE FINISHED POND HAVING SIDE SLOPES AND DIMENSIONS THAT ARE IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS. [illegible]
4. FIELD DENSITY TESTING FREQUENCIES: A) ONE TEST FOR EACH 10,000 SQUARE FEET OR FRACTION THEREOF PER LIFT OF GENERAL BACKFILLING [illegible]
5. IT IS INTENDED THAT PREVIOUSLY EXCAVATED MATERIALS CONFORMING TO THE FOLLOWING REQUIREMENTS BE UTILIZED WHEREVER POSSIBLE.
   - A. ACCEPTABLE MATERIALS: AASHTO M145 CLASSIFICATION A-1, A-3, A-2-4, A-2-6 ASTM D2487 CLASSIFICATION GW, GP, GM, SW, SP, [illegible]
   - B. UNACCEPTABLE MATERIALS: AASHTO M145 CLASSIFICATION A-2-5, A-2-7, A-4, A-5, A-6, A-7, A-8; ASTM D2487 CLASSIFICATION GC, SC, ML, MH, CL, CH, OL, OH, PT [illegible]
6. PROVIDE BARRIERS, WARNING LIGHTS AND OTHER PROTECTIVE DEVICES AT ALL EXCAVATIONS.
7. SIDEWALKS, ROADS, STREETS, AND PAVEMENTS SHALL NOT BE BLOCKED OR OBSTRUCTED BY EXCAVATED MATERIALS, EXCEPT AS AUTHORIZED BY THE ENGINEER [illegible]
8. FURNISH, INSTALL, AND MAINTAIN, WITHOUT ADDITIONAL COMPENSATION, SHEETING, BRACING, AND SHORING SUPPORT REQUIRED TO KEEP EXCAVATIONS WITHIN THE PROPERTY OR EASEMENTS PROVIDED, TO SUPPORT THE SIDES OF THE EXCAVATION, AND TO PREVENT ANY MOVEMENT WHICH MAY DAMAGE ADJACENT PAVEMENTS OR STRUCTURES, DAMAGE OR DELAY THE WORK, OR ENDANGER LIFE AND HEALTH. [illegible] COMPACTED.
9. ALL EXCAVATIONS SHALL BE MADE BY OPEN CUT UNLESS OTHERWISE INDICATED. [illegible]
10. EXCAVATE TRENCHES TO DEPTH INDICATED OR REQUIRED FOR INDICATED FLOW LINES AND INVERT ELEVATIONS. [illegible]
11. EXCEPT AS OTHERWISE INDICATED, EXCAVATE FOR PRESSURE PIPING SO TOP OF PIPING IS MINIMUM 3 FEET BELOW FINISHED GRADE.
12. TRENCH BOTTOMS AND THE BOTTOMS OF ALL STRUCTURES SHALL BE KEPT DRY, COMPACTED, AND STABLE TO A DEPTH TWO FEET BELOW THE BOTTOM OF THE TRENCH OR STRUCTURE.
13. ALL BEDDING, FILL, AND BACKFILL MATERIAL SHALL BE SUITABLE SOILS OR FLOWABLE FILL. [illegible]
14. MINIMUM DENSITY REQUIREMENT (ASTM D1557 OR AASHTO T-180): BACKFILL AND FILL UNDER AND WITHIN THE INFLUENCE AREA OF ROADWAYS, STRUCTURES, SLABS, FOUNDATIONS = 98 PERCENT; BACKFILL AND FILL PLACED WITHIN PUBLIC ROAD RIGHT-OF-WAY AND UTILITY EASEMENTS = 95 PERCENT; [illegible]

RIP RAP

1. ALL RIPRAP CONSTRUCTION SHALL MEET THE REQUIREMENTS OF SECTION 530 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

UTILITY SEPARATION REQUIREMENTS

1. THE HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SANITARY SEWER, STORM SEWER, WASTEWATER FORCE MAINS, STORMWATER FORCE MAINS, RECLAIMED WATER MAINS AND ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS SHALL BE IN ACCORDANCE WITH AWWA STANDARDS AND GRU DETAIL SHEET C-13.
2. THE VERTICAL SEPARATION BETWEEN WATER MAINS AND SANITARY AND STORM SEWER, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER MAINS SHALL BE IN ACCORDANCE WITH AWWA STANDARDS AND GRU DETAIL SHEET C-13.
3. NO WATER MAIN SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY SEWER MANHOLE.
4. NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SUCH THAT THE UNDERGROUND DRAIN (WEEP HOLE) IS AT LEAST:
   - A. THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, RECLAIMED WATER MAIN, OR VACUUM TYPE SANITARY SEWER.
   - B. SIX FEET FROM ANY EXISTING OR PROPOSED GRAVITY SANITARY SEWER AND WASTEWATER FORCE MAIN.
   - C. TEN FEET FROM ANY ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM SUCH AS SEPTIC TANKS, DRAINFIELDS, AND GREASE TRAPS. ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS DO NOT INCLUDE PACKAGE SEWAGE TREATMENT FACILITIES AND PUBLIC WASTEWATER TREATMENT FACILITIES.
5. THE FOLLOWING ARE ACCEPTABLE ALTERNATIVE CONSTRUCTION FEATURES TO BE CONSIDERED FOR COST EVALUATION WITH NO GUARANTEE THEY WILL BE APPROVED FOR IMPLEMENTATION WHERE IT IS NOT POSSIBLE TO MEET THE SEPARATION REQUIREMENTS. [illegible]
   - A. WHERE A WATER MAIN IS LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE OR WHERE A WATER MAIN CROSSES ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE LESS THAN THE MINIMUM REQUIRED DISTANCE BETWEEN THE JOINTS IN THE OTHER PIPELINE:
     1) USE OF PRESSURE RATED PIPE CONFORMING TO AWWA STANDARDS FOR A GRAVITY OR VACUUM TYPE PIPELINE.
     2) USE OF WELDED, FUSED, OR OTHERWISE RESTRAINED JOINTS FOR EITHER PIPELINE.
     3) USE OF WATERTIGHT CASING PIPE OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR EITHER PIPE.
   - B. WHERE A WATER MAIN IS LESS THAN THREE FEET HORIZONTALLY FROM ANOTHER PIPELINE OR WHERE A WATER MAIN CROSSES ANOTHER PIPELINE LESS THAN THE REQUIRED MINIMUM SEPARATION:
     1) USE OF PIPE OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (AT LEAST EQUAL TO 0.25 INCH THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE WATER MAIN AND FOR THE OTHER PIPELINE IF THE OTHER PIPELINE CONVEYS WASTEWATER OR RECLAIMED WATER.

WATER DISTRIBUTION SYSTEMS

1. THE ENTITY THAT WILL OPERATE AND MAINTAIN THE WATER SYSTEMS SHOWN ON THESE PLANS UP TO METER IS GAINESVILLE REGIONAL UTILITIES. THE CONTRACTOR SHALL MEET ALL THE REQUIREMENTS OF GAINESVILLE REGIONAL UTILITIES.
1A. ALL WATER AND RECLAIM SYSTEMS SHALL COMPLY WITH THE MORE RESTRICTIVE OF GAINESVILLE REGIONAL UTILITIES STANDARDS OR THESE NOTES BELOW. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COMPLYING WITH GAINESVILLE REGIONAL UTILITIES STANDARDS AND SPECIFICATIONS MANUAL. HTTP://WWW.GRUCOM/WWSTANDARDS.
2. ALL WATER AND RECLAIMED MAIN PIPE SHALL BE EITHER DUCTILE IRON OR PVC, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
3. INSTALL ALL WATER AND RECLAIMED MAINS IN PAVED AREAS AT A 36 INCHES OF COVER AND A MAXIMUM OF 36 INCHES OF COVER IN GRASSED AREAS.
4. BURIED DUCTILE IRON PIPE SHALL CONFORM WITH ANSI/AWWA C150/A21.50 AND C151/A21.51. AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI. [illegible]
5. EXPOSED PIPE 4" AND LARGER SHALL BE DUCTILE IRON FLANGED AND SHALL CONFORM WITH AWWA ANSI C115/A21.15 AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI. FLANGED PIPE SHALL COMPLY WITH THE FOLLOWING THICKNESS CLASS (TC) DESIGNATIONS UNLESS OTHERWISE INDICATED ON THE DRAWINGS: A) 4" DIAMETER = TC 54; B) 6" THROUGH 24" DIAMETER = TC 53
6. DUCTILE IRON PIPE AND FITTINGS WITHIN 10 FEET OF GAS MAINS SHALL HAVE AN 8 MIL POLYETHYLENE WRAP IN ACCORDANCE WITH ANSI/AWWA C105/A21.5
7. ALL FITTINGS SHALL BE MANUFACTURED OF DUCTILE IRON, CONFORMING TO ANSI/AWWA C110/A21.10 OR ANSI/AWWA C153 A21.53. ALL FULL BODY (C110/A21.10) FITTINGS SHALL BE PRESSURE RATED TO 250 PSI, MINIMUM. ALL COMPACT FITTINGS (C153/A21.53) SHALL BE PRESSURE RATED TO 350 PSI, MINIMUM.
8. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE LINED AND COATED. [illegible]
9. MECHANICAL AND PUSH ON JOINTS FOR DUCTILE IRON PIPE AND FITTINGS SHALL BE RUBBER GASKETED CONFORMING TO ANSI/AWWA C111/A21.11. LUBRICANTS OTHER THAN THAT FURNISHED BY THE PIPE MANUFACTURER WITH THE PIPE SHALL NOT BE USED.
10. ALL FITTINGS SHALL BE RESTRAINED IN ACCORDANCE WITH DIPRA "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE". [illegible]
11. ALL SERVICE PIPING (1") SHALL BE POLYETHYLENE. [illegible]
12. ALL SERVICE SADDLES SHALL CONSIST OF DUCTILE IRON BODIES IN ACCORDANCE WITH ASTM A536, WITH DOUBLE STAINLESS STEEL STRAPS, BOLTS, WASHERS AND NUTS. [illegible]
13. ALL SERVICES SHALL INCLUDE THE FOLLOWING: CURB STOPS, UNIONS AS REQUIRED, CORPORATION STOPS. [illegible]
14. UNLESS OTHERWISE NOTED IN THE PLANS, THE UTILITY COMPANY SHALL PROVIDE AND INSTALL WATER METERS AND RECLAIMED WATER METERS. [illegible]
15. UNLESS OTHERWISE INDICATED OR SPECIFIED, ALL VALVES SMALLER THAN TWO INCHES SHALL BE ALL BRASS OR BRONZE. VALVES TWO INCHES & OVER SHALL BE IRON BODY, BRONZE MOUNTED.
16. VALVES 3 INCHES AND LARGER SHALL BE LINED AND COATED. [illegible]
17. ALL VALVES 12" AND SMALLER SHALL BE GATE VALVES UNLESS OTHERWISE INDICATED ON THE DRAWINGS. [illegible]
18. TAPPING VALVES AND SLEEVES SHALL BE APPROVED AWWA TYPE OF THE SIZE REQUIRED. VALVES SHALL CONFORM TO THE REQUIREMENTS OF AWWA C509.
19. VALVES 16" AND LARGER SHALL BE BUTTERFLY VALVES. [illegible]
20. VALVE SEATS SHALL BE MECHANICALLY RETAINED, AND MAY BE INSTALLED ON EITHER THE BODY OR DISC. [illegible]
21. ALL BURIED VALVES SHALL BE PROVIDED WITH ADJUSTABLE VALVE BOXES. [illegible] "WATER" OR "RECLAIMED WATER".
22. PVC PIPE SHALL BE COLOR CODED BLUE (WATER MAINS) OR PURPLE (RECLAIMED WATER MAINS), STENCILED "WATER LINE" OR "RECLAIMED WATER LINE", AS APPLICABLE. [illegible]
23. INSTALL IDENTIFICATION TAPE ALONG ALL DUCTILE IRON PIPE AND PVC PIPE. [illegible]
24. INSTALL WARNING TAPE ALONG ALL PIPELINES, PLACED 2 FEET ABOVE PIPE. [illegible]
25. INSTALL LOCATING WIRE ALONG ALL PVC PIPELINES. [illegible]
26. ALL CHANGES IN DIRECTION SHALL BE MADE WITH FITTINGS OR APPROVED JOINT DEFLECTION. [illegible]
27. TEST PROCEDURES SHALL BE APPROVED BY THE ENGINEER. ALL TESTS SHALL BE MADE IN THE PRESENCE OF THE ENGINEER AND UTILITY. [illegible]
28. PROVIDE ALL EQUIPMENT FOR TESTING. INCREMENTS ON GAGES USED FOR LOW PRESSURE AIR TESTING SHALL BE OF SCALED TO THE NEAREST 0.1 PSI. GAGES, PUMPS, AND HOSES SHALL BE IN GOOD WORKING ORDER WITH NO NOTICEABLE LEAKS.
29. ALL SERVICE LINES SHALL BE COMPLETED PRIOR TO TESTING, AND ARE SUBJECT TO THE SAME TESTING REQUIREMENTS AS THE MAIN LINE.
30. THE SEQUENCE OF TESTING AND DISINFECTION SHALL BE AS FOLLOWS: [illegible]
31. APPLY HYDROSTATIC TEST PRESSURE OF 150 PSI (WATER MAINS), 200 PSI (FIRE MAINS) OR 100 PSI (RECLAIMED WATER MAINS) [illegible]
32. APPLY LEAKAGE TEST PRESSURE OF 150 PSI (WATER MAINS), 200 PSI (FIRE MAINS) OR 100 PSI (RECLAIMED WATER MAINS). [illegible]
33. NO LEAKAGE IS ALLOWED IN EXPOSED PIPING, BURIED PIPING WITH FLANGED, THREADED, OR WELDED JOINTS OR BURIED NON-POTABLE PIPING IN CONFLICT WITH POTABLE WATER LINES.
34. TESTED SECTIONS OF BURIED PIPING WITH SLIP-TYPE OR MECHANICAL JOINTS WILL NOT BE ACCEPTED IF IT HAS A LEAKAGE RATE IN EXCESS OF THAT RATE DETERMINED BY THE FORMULA [illegible]
35. ALL APPARENT LEAKS DISCOVERED WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER SHALL BE LOCATED AND REPAIRED BY CONTRACTOR, REGARDLESS OF THE TOTAL LINE LEAKAGE RATE.
36. DISINFECT ALL POTABLE WATER LINES, FIRE LINES, VALVES, FITTINGS, HYDRANTS.
37. ALL DISINFECTION WORK SHALL BE ACCEPTABLE TO THE STATE HEALTH AUTHORITY. [illegible] PIPING SYSTEMS SHALL CONFORM TO AWWA C651.

FIRE PROTECTION SYSTEMS

1. COMBUSTIBLE CONSTRUCTION CANNOT OCCUR UNTIL PROPER DOCUMENTATION HAS BEEN SUBMITTED TO THE LOCAL FIRE MARSHAL. DOCUMENTATION SHALL SHOW THAT HYDRANTS HAVE BEEN INSTALLED, TESTED, AND ARE IN PROPER WORKING ORDER.
2. INSTALL ALL FIRE LINE PIPING AT A MINIMUM 36 INCHES OF COVER.
3. ALL FIRE LINE PIPING FROM POINT OF SERVICE AS DEFINED BY FS 633.021(18) SHALL BE C900 DR 14. THE FIRE LINE SHALL BE PRESSURE TESTED TO 200 PSI FOR A MINIMUM OF TWO HOURS, TESTED IN ACCORDANCE WITH NFPA 24-9-2.
4. THE CONTRACTOR INSTALLING THE UNDERGROUND FIRE PROTECTION PIPING SHALL HOLD A CLASS I, II, OR LEVEL V CERTIFICATION AS ISSUED BY THE STATE OF FLORIDA, AS REQUIRED BY FS 633.521(3).
5. ALL FIRE PROTECTION SPRINKLER SYSTEMS INSTALLED SHALL COMPLY WITH NFPA 13, AND SHALL BE MONITORED BY A COMPANY LISTED AS A CENTRAL STATION.
6. HYDRANTS SHALL CONFORM TO AWWA C502 AND SHALL BE FURNISHED COMPLETE WITH WRENCH AND OTHER APPURTENANCES. MANUFACTURER'S CERTIFICATION OF COMPLIANCE WITH AWWA C502 AND TESTS LISTED THEREIN WILL BE REQUIRED.
7. ALL HYDRANTS SHALL BE OF BREAKABLE TYPE, WITH THE BREAKABLE SECTION LOCATED SLIGHTLY ABOVE THE FINISH GROUND LINE. [illegible]
8. ALL HYDRANTS SHALL BE PAINTED IN AN APPROVED MANNER WITH THE PRIMER PAINT BEING KOPPER'S "GLAMORTEX" NO. 622 RUST PRIMER [illegible]
9. BLUE PAVEMENT REFLECTORS (CAT EYES) SHALL BE PLACED IN THE CENTERLINE OF THE DRIVING LANE DIRECTLY IN FRONT OF ALL FIRE HYDRANTS. THERE SHALL BE NO TREES, SHRUBS, OR LANDSCAPING PLANTED AROUND THE FIRE HYDRANTS OR IN AREAS DESIGNATED AS FIRE LANES.
10. NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SUCH THAT THE UNDERGROUND DRAIN (WEEP HOLE) IS AT LEAST: THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, RECLAIMED WATER MAIN, OR VACUUM TYPE SANITARY SEWER; SIX FEET FROM ANY EXISTING OR PROPOSED GRAVITY SANITARY SEWER AND WASTEWATER FORCE MAIN; AND TEN FEET FROM ANY ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM SUCH AS SEPTIC TANKS, DRAINFIELDS, AND GREASE TRAPS. [illegible]
11. THE SEQUENCE OF TESTING AND DISINFECTION SHALL BE AS FOLLOWS: 1) CONDUCT FIRE FLOW, PRESSURE AND LEAKAGE TESTING; [illegible]
12. THE CONTRACTOR SHALL PROVIDE A POST-CONSTRUCTION FIRE FLOW TEST WITNESSED AND APPROVED BY THE ENGINEER AND THE UTILITY. HYDRANTS SHALL DELIVER A MINIMUM OF 1250 GPM WITH A RESIDUAL PRESSURE OF 70 PSI.
13. APPLY HYDROSTATIC TEST PRESSURE OF 200 PSI [illegible] THE ENGINEER TO COMPLETE THE INSPECTION OF THE LINE UNDER TEST. DO NOT EXCEED PIPE MANUFACTURER'S SUGGESTED TIME DURATION AT THE TEST PRESSURE. IF DEFECTS ARE NOTED, REPAIRS SHALL BE MADE AND THE TEST REPEATED UNTIL ALL PARTS OF THE LINE WITHSTAND THE TEST PRESSURE.
14. APPLY LEAKAGE TEST PRESSURE OF 200 PSI (FIRE MAINS) [illegible]
15. NO LEAKAGE IS ALLOWED IN EXPOSED PIPING, BURIED PIPING WITH FLANGED, THREADED, OR WELDED JOINTS OR BURIED NON-POTABLE PIPING IN CONFLICT WITH POTABLE WATER LINES.
16. TESTED SECTIONS OF BURIED PIPING WITH SLIP-TYPE OR MECHANICAL JOINTS WILL NOT BE ACCEPTED IF IT HAS A LEAKAGE RATE IN EXCESS OF THAT RATE DETERMINED BY THE FORMULA [illegible]
17. DISINFECT ALL POTABLE WATER LINES, FIRE LINES, VALVES, FITTINGS, HYDRANTS.
18. ALL DISINFECTION WORK SHALL BE ACCEPTABLE TO THE STATE HEALTH AUTHORITY. [illegible] PIPING SYSTEMS SHALL CONFORM TO AWWA C651.

SANITARY SEWER SYSTEMS

1. THE ENTITY THAT WILL OPERATE AND MAINTAIN THE SEWER SYSTEM SHOWN ON THESE PLANS IS GAINESVILLE REGIONAL UTILITIES. THE CONTRACTOR SHALL MEET ALL THE REQUIREMENTS OF GAINESVILLE REGIONAL UTILITIES.
1A. ALL SANITARY SEWER SHALL COMPLY WITH THE MORE RESTRICTIVE OF GAINESVILLE REGIONAL UTILITY STANDARDS OR THESE NOTES BELOW. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COMPLYING WITH GAINESVILLE REGIONAL UTILITIES STANDARDS AND SPECIFICATIONS MANUAL. HTTP://WWW.GRU.COM/WWSTANDARDS.
2. PVC SEWER PIPE SHALL BE TYPE PSM PVC PIPE CONFORMING TO ASTM D3034 AND SHALL BE SDR 26 FOR 4" THROUGH 15", AND ASTM F 679, WALL THICKNESS T-1, FOR PIPE 18" THROUGH 27".
3. INSTALL ALL SEWER MAINS AT A MINIMUM 36 INCHES OF COVER.
4. JOINTS SHALL MEET THE REQUIREMENTS OF ASTM D3212 USING RUBBER GASKETS CONFORMING TO ASTM F477.
5. FITTINGS SHALL CONFORM TO THE SAME REQUIREMENTS AS THE PIPE. PROVIDE ADAPTERS AS REQUIRED TO JOIN PVC PIPE TO PIPE, FITTINGS AND EQUIPMENT OF OTHER MATERIALS. SOLVENT CEMENT SHALL BE AS RECOMMENDED BY THE PIPE MANUFACTURER.
6. PVC SEWER PIPE SHALL BE COLOR CODED GREEN, STENCILED "SEWER LINE" 2" LETTERING ON TWO SIDES OF THE PIPE IN AT LEAST THREE AREAS PER PIPE SECTION.
7. INSTALL ADHESIVE IDENTIFICATION TAPE ALONG PIPELINE. [illegible]
8. INSTALL WARNING TAPE ALONG ALL SEWER PIPELINES. TAPE SHALL BE 6-INCH WIDE VINYL CONTINUOUS TAPE, COLORED GREEN [illegible] "CAUTION: SEWER BURIED BELOW". INSTALL ALONG PIPELINE, 2 FEET ABOVE PIPE. MINIMUM OF 1 FOOT BELOW GRADE.
9. CONNECTIONS TO EXISTING SEWER SHALL BE CONDUCTED IN SUCH A MANNER THAT THE EXISTING SEWER REMAINS IN OPERATION. [illegible]
10. PRIOR TO INSPECTIONS AND TESTING, CLEAN ALL INSTALLED LINES AND MANHOLES. TEST PROCEDURES SHALL BE APPROVED BY THE ENGINEER. ALL TESTS SHALL BE MADE IN THE PRESENCE OF THE ENGINEER AND UTILITY. NOTIFY THE ENGINEER AND THE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY WORK IS TO BE INSPECTED OR TESTED.
11. PROVIDE ALL EQUIPMENT FOR TESTING. INCREMENTS ON GAGES USED FOR LOW PRESSURE AIR TESTING SHALL BE OF SCALED TO THE NEAREST 0.1 PSI. GAGES, PUMPS AND HOSES SHALL BE IN GOOD WORKING ORDER WITH NO NOTICEABLE LEAKS.
12. ALL SERVICE LATERALS SHALL BE COMPLETED PRIOR TO TESTING, AND ARE SUBJECT TO THE SAME TESTING REQUIREMENTS AS THE MAIN LINE.
13. PROVIDE LIGHT SOURCE AND MIRRORS FOR LAMPING OF SEWER. ANY SEWER IN WHICH THE DIRECT LIGHT OF A LAMP CANNOT BE VIEWED [illegible]
14. CONDUCT LOW PRESSURE AIR TESTING [illegible]
15. CONDUCT LEAKAGE TESTING OF MANHOLES. PLUG INVERTS AND FILL MANHOLE WITH WATER. ALLOWABLE WATER DROP IN MANHOLE TO BE FIELD DETERMINED BY UTILITY AND ENGINEER. MINIMUM TEST DURATION IS 1 HOUR.
16. CONDUCT DEFLECTION TESTING OF PIPELINE AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. [illegible]
17. DEFLECTION TESTING IS CONSIDERED SATISFACTORY IF THE MANDREL CAN BE PULLED BY HAND THROUGH THE PIPE BEING TESTED. IF THE MANDREL CANNOT BE PULLED THROUGH THE PIPE, REPLACE OR CORRECT THE PIPE AND RETEST UNTIL TESTING IS SATISFACTORY. ANY PIPE REMOVED OR CORRECTED DUE TO FAILING DEFLECTION TESTING SHALL ALSO BE RE-TESTED FOR LEAKAGE.
18. CCTV INSPECTION OF GRAVITY SEWERS - SEE GAINESVILLE REGIONAL UTILITIES STANDARDS.

PRECAST STRUCTURES AND APPURTENANCES

1. ALL MANHOLES SHALL BE PRECAST CONSTRUCTION. THE MINIMUM SIZE DIAMETER OF MANHOLES SHALL BE 48" FOR SEWER LINES 21" IN DIAMETER OR LESS. [illegible]
2. BASES SHALL BE ONE-PIECE PRECAST BASE SECTIONS CONSISTING OF INTEGRALLY CAST SLAB, BOTTOM RING SECTION AND CONCRETE FLOW CHANNELS. [illegible]
3. RISERS SHALL BE PRECAST REINFORCED CONCRETE PER ASTM C478 MANUFACTURED USING SULFATE RESISTANT CEMENT [illegible]
4. GASKETS FOR SEATING PRECAST SECTIONS SHALL BE COLD ADHESIVE PREFORMED PLASTIC GASKETS CONFORMING TO FDOT SPECIFICATION 942-2, UNLESS OTHERWISE INDICATED.
5. UNLESS OTHERWISE INDICATED, CONE TOP SECTIONS SHALL BE PRECAST, ECCENTRIC TYPE WITH 24-INCH DIAMETER TOP OPENING CONFORMING TO ASTM C478. PROVIDE 8-INCH MINIMUM THICKNESS FLAT SLAB TOPS WITH ECCENTRIC 24 INCH DIAMETER OPENING, UNLESS OTHERWISE INDICATED.
6. PROVIDE A FLEXIBLE, WATERTIGHT SEAL OF THE PIPE TO THE MANHOLE. [illegible] PROHIBITED.
7. FRAMES AND COVERS SHALL BE GREY IRON PER ASTM A48, CLASS 30B AND SHALL BE US FOUNDRY TYPE 227AS, TRAFFIC BEARING [illegible] ON THE DRAWINGS.
8. PROVIDE INLETS, FRAMES, AND GRATES IN ACCORDANCE WITH DETAILS ON THE DRAWINGS. ALL FRAMES AND INLET GRATES SHALL BE PRODUCTS OF U.S. FOUNDRY & MANUFACTURING CORPORATION OR EQUAL.
9. ALL INLET GRATES SHALL BE SECURED BY CHAIN AND EYEBOLT TO THE TOP OF THE STRUCTURE.
10. MANHOLE COATINGS AND FINISHES SHALL BE:
    - A. SANITARY SEWER MANHOLE INTERIOR - LIGHT GRAY BITUMINOUS EPOXY COATING, MINIMUM DRY FILM THICKNESS = 16 MILS.
    - B. INTERIOR OF MANHOLES WHICH RECEIVE FORCE MAIN DISCHARGE - INTEGRALLY ATTACHED INTERIOR LINER, FULL HEIGHT, FIBERGLASS LINER. LINER THICKNESS TO BE IN ACCORDANCE WITH THE DRAWINGS.
    - C. EXTERIOR - BITUMINOUS EPOXY COATING, MINIMUM DRY FILM THICKNESS = 16 MILS.
11. AS-BUILT INFORMATION SHALL INCLUDE ALL RIM, TOP AND INVERT ELEVATIONS FOR ALL PRECAST STRUCTURES.

PAVING TIMING REQUIREMENTS

1. INSTALL SUBGRADE AND BASE COURSE MATERIALS WITHIN 48 HOURS OF THE REMOVAL/OPEN CUTTING OF EXISTING PAVEMENT CONSISTING OF STREETS, DRIVEWAYS, OR SIDEWALK. INSTALL FINAL SURFACE COURSES WITHIN 14 DAYS AFTER REMOVAL OF EXISTING PAVEMENT.
2. AREAS TO RECEIVE ASPHALT SHALL RECEIVE EROSION CONTROL MEASURES NO LATER THAN 48 HOURS AFTER ACCEPTANCE OF BASE COURSE. TEMPORARY EROSION CONTROL CONSISTS OF PLACEMENT OF A BITUMINOUS PRIME COAT AND SANDING THE SURFACE. PERMANENT EROSION CONTROL CONSISTS OF PLACEMENT OF THE STRUCTURAL COURSE.
3. AREAS TO RECEIVE CONCRETE PAVING SHALL BE EITHER PROTECTED WITH A LAYER OF FDOT COARSE AGGREGATE MATERIAL OR SHALL BE PAVED WITHIN 48 HOURS OF ACCEPTANCE OF THE SUBGRADE.

STORM SEWER SYSTEMS

1. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE INDICATED ON THE DRAWINGS. ROUND CONCRETE PIPE SHALL COMPLY WITH ASTM C76. ELLIPTICAL CONCRETE PIPE SHALL COMPLY WITH ASTM C507. PIPE JOINTS SHALL COMPLY WITH ASTM C443 AND FDOT SPECIFICATION SECTION 430, AND RUBBER GASKETS SHALL COMPLY WITH FDOT SPECIFICATION SECTION 942. MINIMUM COVER OVER THE PIPE, INCLUDING COVER OVER THE BELL OF THE PIPE WHERE APPLICABLE, SHALL BE 18 INCHES.
2. RCP PIPE SHALL NOT BE SHIPPED FROM MANUFACTURER UNTIL THE COMPRESSIVE STRENGTH OF THE PIPE HAS REACHED 4000 PSI AND A MINIMUM OF 5 DAYS HAVE PASSED SINCE THE MANUFACTURING OR REPAIR OF THE PIPE HAS BEEN COMPLETED.
3. CORRUGATED POLYETHYLENE PIPE AND FITTINGS 4 INCH THROUGH 10 INCH DIAMETER SHALL COMPLY WITH AASHTO M252, TYPE S. [illegible]
4. UNDERDRAIN PIPE SHALL BE PERFORATED POLYVINYL CHLORIDE PIPE IN ACCORDANCE WITH ASTM F758. FILTER FABRIC UNDERDRAIN SOCK SHALL BE TYPE D-3 IN ACCORDANCE WITH FDOT INDEX NO. 199.
5. ALL PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC. FILTER FABRIC SHALL BE IN ACCORDANCE WITH FDOT INDEX NO. 199, TYPE D-3, A.O.S. 70-100. INSTALL IN ACCORDANCE WITH FDOT INDEX NO. 280. PROVIDE MINIMUM 12" OVERLAP.
6. INSTALL POLYETHYLENE PIPE IN ACCORDANCE WITH ASTM D2321. BACKFILL AND COMPACT EVENLY ON EACH SIDE TO PREVENT DISPLACEMENT. [illegible]
7. INSTALL UNDERDRAINS IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 440. INSTALL CLEANOUTS AS SHOWN ON THE DRAWINGS.
8. PRIOR TO INSPECTIONS AND TESTING, CLEAN ALL INSTALLED LINES AND STRUCTURES.
9. ALL STORM PIPE SHALL BE SUBJECTED TO LEAKAGE TESTING. WHEN THE GROUND WATER LEVEL IS ABOVE THE TOP OF THE PIPE, AN INFILTRATION TEST SHALL BE PERFORMED [illegible]

PAVING, SIDEWALKS, AND CURBING

1. MATERIALS AND CONSTRUCTION METHODS FOR THE ROADWAY AND PAVING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2010 EDITION.
2. ROADWAY PAVING, BASE, AND SUBGRADE THICKNESSES SHALL BE IN ACCORDANCE WITH DETAILS ON THESE DRAWINGS. MATERIAL STABILITY AND DENSITY REQUIREMENTS ARE AS FOLLOWS:
   - A. FDOT TYPE SP-9.5 ASPHALTIC CONCRETE: MINIMUM STABILITY 1500 LBS. COMPACTED TO A MINIMUM OF 95% OF THE MARSHALL DESIGN DENSITY.
   - B. LIMEROCK BASE: MINIMUM LBR OF 100, PLACED IN 6" MAXIMUM LIFTS, COMPACTED TO A MINIMUM DENSITY OF 98% OF THE MODIFIED PROCTOR DRY DENSITY (AASHTO T-180). CONTRACTOR MAY SUBSTITUTE ASPHALT BASE COURSE TYPE 3 (MIN STABILITY OF 1000 LBS) AT NO ADDITIONAL COST. PROVIDED STRUCTURAL NUMBER EQUALS OR EXCEEDS THAT OF THE SPECIFIED LIMEROCK BASE.
   - C. SUBGRADE: STABILIZE TO A MIN. LBR OF 40. COMPACT TO A MINIMUM DENSITY OF 98% OF THE MODIFIED PROCTOR DRY DENSITY (AASHTO T-180). [illegible]
3. SIDEWALKS ARE TO BE CONSTRUCTED IN THE AREAS AS SHOWN ON THE CONSTRUCTION PLANS. THE SIDEWALK SHALL BE CONSTRUCTED OF 4" OF CONCRETE WITH A 28-DAY COMPRESSION STRENGTH OF 3000 PSI. [illegible] THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION, LATEST EDITION.
4. CURBING SHALL BE CONSTRUCTED WHERE NOTED ON THE CONSTRUCTION PLANS. CONCRETE FOR CURBS SHALL BE FDOT CLASS "I" CONCRETE WITH A 28-DAY COMPRESSION STRENGTH OF 3000 PSI. [illegible]
5. FIELD COMPACTION DENSITY, STABILITY, AND THICKNESS TESTING FREQUENCIES OF SUB-BASE, BASE, AND ASPHALT SHALL BE TESTED ONCE EVERY 300 LINEAR FEET OF PAVING [illegible]

SIGNS AND PAVEMENT MARKINGS

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE LATEST FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS. [illegible]
2. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC WITH RAISED PAVEMENT MARKERS (TYPE 911 - 4" x 4") RAISED PAVEMENT MARKERS ARE TO BE INSTALLED IN ACCORDANCE WITH THESE PLANS AND FDOT INDEX NO. 17352.
3. PARKING STALL PAVEMENT MARKINGS SHALL BE PAINTED. PAINT SHALL MEET THE REQUIREMENTS OF FDOT SPECIFICATION SECTION 971 NON-REFLECTIVE WHITE TRAFFIC PAINT.
4. ALL ROADWAY TRAFFIC SIGNS SHALL BE MANUFACTURED USING HIGH INTENSITY RETROREFLECTIVE MATERIALS. THE BACK OF ALL FINISHED PANELS SHALL BE STENCILED WITH THE DATE OF FABRICATION, THE FABRICATOR'S INITIALS, AND THE NAME OF THE SHEETING IN THREE-INCH LETTERS.
5. INTERNAL SITE TRAFFIC SIGNS ARE NOT REQUIRED TO BE RETROREFLECTIVE.
6. THE CONTRACTOR SHALL VERIFY THE REQUIRED LENGTH OF THE SIGN COLUMN SUPPORTS IN THE FIELD PRIOR TO FABRICATION.
7. ALL PAVEMENT MARKINGS REQUIRE LAYOUT APPROVAL IN THE FIELD BY THE ENGINEER PRIOR TO INSTALLATION.
8. PRIOR TO FINAL PAVEMENT MARKING INSTALLATION, A TWO WEEK CURE TIME OF THE ASPHALT IS REQUIRED.

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WADE PRESTON OLSZEWSKI, LICENSE No. 54068, STATE OF FLORIDA, PROFESSIONAL ENGINEER

No.	Date	Revision	By

Designed by:	C.O.B.
Drawn by:	P.W.R.
Checked by:	B.P.C.
Approved by:	W.P.O.
Scale:	NTS
Date:	12-15-15
Job No.:	M29955

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GENERAL NOTES

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CITY OF GAINESVILLE / FLORIDA

Sheet No.
C-2

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SCHEDULE B-SECTION II PER CHICAGO TITLE INSURANCE COMPANY TITLE COMMITMENT ORDER NO. 5207347 EFFECTIVE DATE JANUARY 6, 2016 AT 5:00 P.M. △3 REVISED 1/13/2016

(6) Restrictions, covenants, conditions, easements and other matters as contained on the Plat of UNIVERSITY TERRACE, a Subdivision in the East half of Lot Thirteen (13), BROWN'S ADDITION TO THE CITY OF GAINESVILLE, being in the Northwest quarter (NW 1/4) of Section 5, Township 10 South, Range 20 East, as per Plat thereof recorded in Plat Book "A", at page 115 of the Public Records of Alachua County, Florida.**(AFFECTS SITE-BLANKET)**

(7) Terms, covenants, conditions, restrictions, reservations, rights and other provisions, if any, contained in that certain Deed recorded in official records Book 272, Page 181, of the Public Records of Alachua County, Florida.**(AFFECTS SITE-BLANKET)**

(8) Terms, covenants, conditions, restrictions, reservations, rights and other provisions contained in that certain Special Warranty Deed recorded in official records Book 1749, Page 2470, of the Public Records of Alachua County, Florida.**(AFFECTS SITE-BLANKET)**

(9) Terms, covenants, conditions, restrictions, reservations, rights and other provisions contained in that certain Special Warranty Deed recorded in official records Book 2208, Page 757, of the Public Records of Alachua County, Florida.**(AFFECTS SITE-BLANKET)**

(10) Terms, covenants, conditions, restrictions, reservations, rights and other provisions contained in that certain Quit Claim Deed recorded in official records Book 3001, Page 1170, of the Public Records of Alachua County, Florida.**(AFFECTS SITE-BLANKET)**

(11) Terms, covenants, conditions, restrictions, reservations, rights and other provisions contained in that certain Special Warranty Deed recorded in official records Book 3001, Page 1173, of the Public Records of Alachua County, Florida.**(AFFECTS SITE-BLANKET)**

(12) Terms, covenants, conditions, and provisions contained in that certain Access Agreement Granting Right of Entry recorded in official records Book 3001, Page 1189, of the Public Records of Alachua County, Florida.**(AFFECTS SITE-BLANKET)**

(13) Any environmental contamination of the property as notice in that certain Access Agreement Granting Right of Entry recorded in official records Book 3001, Page 1189, of the Public Records of Alachua County, Florida, and liens or other matters arising thereunder.**(AFFECTS SITE-BLANKET)**

14. Title to any portion of the insured land lying within any road right of way is hereby excluded from coverage.

15. Rights of tenants occupying all or part of the insured land under unrecorded leases or rental agreements.

16. Terms, conditions and provisions of that certain Lease Agreement recorded _____ 2015, in Official Records Book _____ Page _____, of said records.

17. The effect of any failure to comply with the terms, covenants, conditions and provisions of the lease, being the basis of the leasehold described or referred to in Schedule A.

Abbreviation Legend:

(A)	– ACTUAL	MES	– MITERED END SECTION
A/C	– AIR CONDITIONER	MH	– MANHOLE
ACSM	– AMERICAN CONGRESS ON SURVEYING & MAPPING	MLP	– METAL LIGHT POLE
ADA	– AMERICANS WITH DISABILITIES ACT	MPH	– MILES PER HOUR
ALTA	– AMERICAN LAND TITLE ASSOCIATION	MPP	– METAL POWER POLE
APPROX	– APPROXIMATE	N/A	– NOT APPLICABLE
ARV	– AIR RELEASE VALVE	NAVD	– NORTH AMERICAN VERTICAL DATUM
AVE	– AVENUE	NAD	– NORTH AMERICAN DATUM
AVG	– AVERAGE	NG	– NATURAL GROUND
(BB)	– BEARING BASIS	NGS	– NATIONAL GEODETIC SURVEY
BFP	– BACK FLOW PREVENTER	NGVD	– NATIONAL GEODETIC VERTICAL DATUM
BLK	– BLOCK	N & D	– NAIL AND DISK
BLDG	– BUILDING	NO.	– NUMBER
BLVD	– BOULEVARD	NR	– NON-RADIAL
BM	– BENCH MARK	NSPS	– NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS
BOC	– BACK OF CURB	NT	– NON-TANGENT
BOW	– BACK OF WALK	NTS	– NOT TO SCALE
BSL	– BUILDING SETBACK LINE	OD	– OUTSIDE DIAMETER
BWF	– BARBED WIRE FENCE	ORB	– OFFICIAL RECORDS BOOK
C-X	– DENOTES SHEET NUMBERING FOR ENGINEERING PLANS	OR	– OFFICIAL RECORDS
(C)	– CALCULATED	OUL	– OVERHEAD UTILITY LINES
C	– CHORD	OTL	– OVERHEAD TRAFFIC LINES
CATV	– CABLE TELEVISION RISER	(P)	– PLAT
CB	– CHORD BEARING	PB	– PLAT BOOK
CBS	– CONCRETE BLOCK STRUCTURE	PC	– POINT OF CURVATURE
C.C.R.	– CERTIFIED CORNER RECORD	PCC	– POINT OF COMPOUND CURVATURE
C&G	– CURB & GUTTER	PCP	– PERMANENT CONTROL POINT
CI	– CATCH INLET	PFF	– PROPOSED FINISHED FLOOR
C/L	– CENTERLINE	PG	– PAGE
CLF	– CHAIN LINK FENCE	PGS	– PAGES
CM	– CONCRETE MONUMENT	PI	– POINT OF INTERSECTION
CMP	– CORRUGATED METAL PIPE	PK	– PARKER KAYLON
CO	– CLEANOUT	POB	– POINT OF BEGINNING
CONC	– CONCRETE	POC	– POINT OF COMMENCEMENT
COR	– CORNER	POL	– POINT ON LINE
CRPP	– CORRUGATED PLASTIC PIPE	PP	– POWER POLE
CUE	– COUNTY UTILITY EASEMENT	PRC	– POINT OF REVERSE CURVATURE
CWS	– CROSSWALK SIGNAL	PRM	– PERMANENT REFERENCE MONUMENT
Δ	– DELTA	PSM	– PROFESSIONAL SURVEYOR & MAPPER
(D)	– DESCRIPTION	PT	– POINT OF TANGENCY
DB	– DEED BOOK	PVC	– POLYVINYL CHLORIDE PIPE
DBH	– DIAMETER AT BREAST HEIGHT IN INCHES	PVMT	– PAVEMENT
DE	– DRAINAGE EASEMENT	R20E	– RANGE 20 EAST
DEPT	– DEPARTMENT	R	– RADIUS
DIP	– DUCTILE IRON PIPE	RAD	– RADIAL
DR	– DRIVE	RCP	– REINFORCED CONCRETE PIPE
D/U	– DRAINAGE AND UTILITY EASEMENT	REC	– RECOVERED
(E)	– ENGINEERING PLAN	REV	– REVISION
EJB	– ELECTRIC JUNCTION BOX	RP	– RADIUS POINT
EL	– UNDERGROUND ELECTRICAL LINES	R/W	– RIGHT-OF-WAY
ELEC	– ELECTRIC	RLS	– REGISTERED LAND SURVEYOR
ELEV	– ELEVATION	RP	– RADIUS POINT
ELLIP	– ELLIPTICAL	RWL	– UNDERGROUND RECLAIM WATER LINE
EOI	– END OF INFORMATION	RWM	– RECLAIMED WATER METER
EOP	– EDGE OF PAVEMENT	SE	– SPECIAL EASEMENT
FB	– FIELD BOOK	SEC 5	– SECTION 5
FDOT	– FLORIDA DEPARTMENT OF TRANSPORTATION	SMH	– SANITARY SEWER MANHOLE
FF	– FINISH FLOOR	(SP)	– STATE PLANE
FGI	– FLAT GRATE INLET	SQ	– SQUARE
FGLP	– FIBERGLASS LIGHT POLE	SQ FT	– SQUARE FEET
FHYD	– FIRE HYDRANT	ST	– STREET
FM	– FORCE MAIN	STMH	– STORM DRAINAGE MANHOLE
FND	– FOUND	S/W	– SIDEWALK
FP&L	– FLORIDA POWER AND LIGHT	TB	– TANGENT BEARING
FS	– FLORIDA STATUTE	T10S	– TOWNSHIP 10 SOUTH
(G)	– GRID (STATE PLANE)	TELE	– TELEPHONE
GL	– UNDERGROUND GAS LINES	TL	– OVERHEAD TRAFFIC SIGNAL LINES
GOV'T	– GOVERNMENT	TOB	– TOP OF BANK
GPR	– GROUND PENETRATING RADAR	TOE	– TOE OF SLOPE
GTMH	– GREASE TRAP MANHOLE	TR	– TELEPHONE RISER
HDPE	– HIGH DENSITY POLYETHYLENE PIPE	TRANS	– TRANSFORMER PAD
HWF	– HOG WIRE FENCE	TSB	– TRAFFIC SIGNAL BOX
ID	– IDENTIFICATION	TSSP	– TRAFFIC SIGNAL SUPPORT POLE
ICV	– IRRIGATION CONTROL VALVE	TVL	– UNDERGROUND CABLE TV LINES
INFO	– INFORMATION	(TYP)	– TYPICAL
INV	– INVERT	UE	– UTILITY EASEMENT
IP	– IRON PIPE	UNK	– UNKNOWN
IP&C	– IRON PIPE & CAP	UTL	– UNDERGROUND TELEPHONE LINES
IR	– IRON ROD	W/	– WITH
IR&C	– IRON REBAR & CAP	WL	– UNDERGROUND WATER LINE
IRR	– IRRIGATION	WLP	– WOOD LIGHT POLE
L	– ARC LENGTH	WM	– WATER METER
LB#	– LICENSED BUSINESS NUMBER	WP	– WORK PROGRAM
LP	– LIGHT POLE	WPF	– WOOD POST FENCE
(M)	– MEASURED	WPP	– WOOD POWER POLE
MB	– MAP BOOK	WV	– WATER VALVE
MBX	– MAILBOX		

BOUNDARY & TOPOGRAPHIC SURVEY
ALSO BEING AN
(ALTA/ACSM LAND TITLE SURVEY)
FOR
McDonald's®
L/C 009-2618
AT
UNIVERSITY AVE
LYING IN
SECTION 5-TOWNSHIP 10 SOUTH-RANGE 20 EAST
CITY OF GAINESVILLE, ALACHUA COUNTY, FLORIDA

Legal Description: (PER TITLE COMMITMENT ORDER NO. 5207347)

LESSEE'S INTEREST IN THAT CERTAIN LEASE AGREEMENT BY AND BETWEEN RAZVI ENTERPRISES, LLC, A FLORIDA LIMITED LIABILITY COMPANY, AS LESSOR, AND MCDONALD'S USA, LLC, AS LESSEE, DATED_____ 2015H, MEMORIALIZED BY THAT CERTAIN LEASE AGREEMENT DATED_____, 2015, RECORDED_____, 2015, IN OFFICIAL RECORDS BOOK _____, PAGE _____, OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA, DEMISING THE FOLLOWING DESCRIBED LAND:

LEASEHOLD INTEREST IN THE FOLLOWING LANDS:

LOTS ONE (1), TWO (2), SIX (6) AND SEVEN (7), OF UNIVERSITY TERRACE, A SUBDIVISION IN THE EAST HALF OF LOT THIRTEN (13), BROWN'S ADDITION TO THE CITY OF GAINESVILLE, BEING IN THE NORTHWEST QUARTER (NW 1/4) OF SECTION 5, TOWNSHIP 10 SOUTH, RANGE 20 EAST, AS PER PLAT THEREOF RECORDED IN PLAT BOOK "A", AT PAGE 115 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA, LESS AND EXCEPT ALL ROAD RIGHTS-OF-WAY. ALSO LESS AND EXCEPT THE FOLLOWING DESCRIBED LAND:

BEGINNING AT THE SOUTHEAST CORNER OF SAID LOT ONE (1), RUN THENCE NORTHERLY ALONG THE EAST LINE OF SAID LOT ONE (1), A DISTANCE OF 10 FEET, RUN THENCE SOUTHWESTERLY 11.18 FEET TO THE SOUTH LINE OF SAID LOT ONE (1) AT A POINT 5 FEET WESTERLY FROM THE POINT OF BEGINNING; RUN THENCE EASTERLY ALONG THE SOUTH LINE OF SAID LOT ONE (1) A DISTANCE OF 5 FEET TO THE POINT OF BEGINNING.

Legal Description: (PREPARED BY SURVEYOR)

A PORTION OF LOT 1 AND ALL OF LOTS 2, 6 AND 7, UNIVERSITY TERRACE, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK "A", AT PAGE 115 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA, BEING DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF LOT 1, UNIVERSITY TERRACE, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK "A", AT PAGE 115 OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA; THENCE RUN SOUTH 89°22'25" WEST ALONG THE SOUTH LINE OF SAID LOT 1 A DISTANCE OF 5.00 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE SOUTH 89°22'25" WEST ALONG THE SAID SOUTH LINE OF LOT 1 AND THE SOUTH LINE OF LOT 2 OF SAID PUBLIC RECORDS A DISTANCE OF 120.00 FEET TO THE SOUTHWEST CORNER OF SAID LOT 2; THENCE NORTH 00°42'56" WEST ALONG THE WEST LINE OF LOTS 2, 6 AND 7 OF SAID PUBLIC RECORDS A DISTANCE OF 223.69 FEET TO THE NORTHWEST CORNER OF SAID LOT 7; THENCE RUN NORTH 89°22'25" EAST ALONG THE NORTH LINE OF LOT 7 A DISTANCE OF 125.08 FEET TO THE NORTHEAST CORNER THEREOF; THENCE SOUTH 00°41'40" EAST ALONG THE EAST LINE OF SAID LOTS 1, 6 AND 7 A DISTANCE OF 213.69 FEET TO A POINT LYING 10 FEET NORTHERLY OF THE SOUTHEAST CORNER OF LOT 1; THENCE RUN SOUTH 25°53'03" WEST A DISTANCE OF 11.18 FEET TO THE POINT OF BEGINNING.

CONTAINING 27,945 SQ. FT. OR 0.64 ACRE MORE OR LESS.

Line Legend:
NOT TO SCALE

- = 1 FOOT CONTOURS
- = 5 FOOT CONTOURS
- = ADJOINER PROPERTY LINES
- = BARBED WIRE FENCE
- = BROKEN LINE
- = BURIED CABLE
- = BURIED CABLE TELEVISION
- = BURIED ELECTRIC
- = BURIED FIBER OPTICS
- = BURIED GAS
- = BURIED RECLAIMED WATER LINE
- = BURIED SANITARY LINES
- = BURIED SANITARY SEWER FORCE MAIN LINE
- = BURIED TRAFFIC CONTROL
- = BURIED TELEPHONE LINE
- = BURIED WATER LINES
- = CENTER LINE R/W
- = CHAIN LINK FENCE
- = EASEMENT LINES (EXISTING)
- = EASEMENT LINES (PROPOSED)
- = EDGE OF WATER LINES
- = EXISTING DRAINAGE PIPES
- = EXISTING DRAINAGE PIPES (OUTFALL NOT LOCATED)
- = HOT WATER SUPPLY LINES
- = IRRIGATION LINES
- = OVERHEAD TRAFFIC LINES
- = OVERHEAD UTILITY LINES
- = RIGHT-OF-WAY LINES
- = SECTION LINES
- = STONE WALL LINES
- = TOP OF BANK LINES
- = TOE OF SLOPE LINES
- = TREE LINES
- = TRAVERSE LINES
- = UNKNOWN BURIED LINES
- = VINYL FENCE
- = WOOD FENCE
- = WETLAND LINE
- = COMMUNICATION LINE*

Symbol Legend:
NOT TO SCALE

- AIR RELEASE VALVE
- BORING HOLE LOCATION
- CABLE TV RISER
- CENTRAL ANGLE
- CONCRETE
- CLEAN OUT
- CONCRETE MITERED END SECTION
- CONCRETE RIP RAP
- CONCRETE UTILITY POLE
- COUNTY ROAD SYMBOL
- DUAL SUPPORT SIGN
- ELECTRICAL MANHOLE
- ELECTRICAL JUNCTION BOX
- ELECTRIC OUTLET
- ELECTRIC RISER
- FIRE HYDRANT
- FLOOD LIGHT
- FOUND CONCRETE MONUMENT (AS NOTED)
- FOUND IRON PIPE (AS NOTED)
- FOUND IRON REBAR (AS NOTED)
- GAS VALVE
- GRATE INLET
- GREASE TRAP MANHOLE
- GUY ANCHOR
- HANDICAP PARKING SPACE
- INTERSTATE SYMBOL
- IRRIGATION CONTROL VALVE
- CONCRETE LIGHT POLE
- LIGHT POLE
- LIGHT POLE (DUAL)
- LIGHT POLE (TRIPLE)
- LIGHT POLE (QUAD)
- MAILBOX
- MONITOR WELLS
- NAIL & DISC (AS NOTED)
- FOUND/SET NAIL (AS NOTED)
- BRICK PAVERS
- GARBAGE CAN
- PULL BOX (AS NOTED)
- PARKING SPACES (2)
- REVISION NUMBER (3)
- RECLAIMED WATER METER
- RECLAIMED WATER VALVE
- ROOF DRAIN
- SANITARY SEWER MANHOLE
- SANITARY SEWER VALVE
- SCHEDULE B ITEM NUMBER (8)
- GROUND LIGHT
- SECTION CORNER
- 4" X 4" CM LB #7143
- 5/8" IR&C LB #7143
- SIGN
- SITE BENCH MARK
- STORM SEWER MANHOLE
- STRIPING (DIRECTIONAL)
- TELEPHONE CABLE RISER
- TELEPHONE MANHOLE
- TELEPHONE JUNCTION BOX
- TEST HOLE
- TRAFFIC SIGNAL BOX
- TRAFFIC SIGNAL SUPPORT POLE
- WATER METER
- WATER SERVICE
- WATER SPIGOT
- WATER SPRINKLER
- WATER VALVE
- WELL
- WETLAND FLAG
- WOOD UTILITY POLE
- UNKNOWN MANHOLE
- CONCRETE PAVERS
- DETECTABLE WARNING AREA
- CONCRETE LIGHT POLE (DUAL)
- CONCRETE LIGHT POLE (TRIPLE)
- CONCRETE LIGHT POLE (QUAD)
- UNKNOWN RISER
- VENT (AS NOTED)
- WIRE HEIGHTS (SEE CHART)

Sign Legend:
NOT TO SCALE

(R1)	ROW NUMBER SIGN
(B)	BUS STOP SIGN
(DNE)	DO NOT ENTER SIGN (R5-1)
(HC)	HANDICAP SIGN
(KR)	KEEP RIGHT SIGN
(LTO)	LEFT TURN ONLY
(ME)	MEDIAN SIGN
(ND)	NO DUMPING SIGN
(NL)	NO LEFT TURN SIGN (R3-2)
(NLI)	NO LITTERING SIGN
(FL)	NO PARKING FIRE LANE SIGN
(NOR)	NO RIGHT TURN SIGN (R3-1)
(NOT)	NO TRUCKS (R5-2)
(NP)	NO PARKING SIGN
(1W)	ONE WAY SIGN (R6-2)
(PE)	PEDESTRIAN CROSSING SIGN
(RTO)	RIGHT TURN ONLY
(SL)	SPEED LIMIT SIGN
(S1)	STOP SIGN (R1-1)
(SS)	STREET SIGN
(TZ)	TOW AWAY ZONE SIGN
(TE)	TRUCK ENTRANCE SIGN
(U)	UNKNOWN SIGN
(WL)	WEIGHT LIMIT SIGN
(WW)	WRONG WAY SIGN
(Y)	YIELD SIGN

Parking Table

STANDARD SPACES =	N/A
ACCESSIBLE HANDICAP SPACES =	N/A
TOTAL SPACES =	N/A

NOTE:
THIS SURVEY IS NOT VALID WITHOUT SHEETS 1 THROUGH 2 OF 2.

TITLE BLOCK ABBREVIATIONS
Eng. = ENGINEERING L.B. = LICENSED BUSINESS
C.O.A. = CERTIFICATE OF AUTHORIZATION Arch. = ARCHITECTURAL
Landscp. = LANDSCAPE N/A = NOT APPLICABLE Lic. = LICENSED
No. = NUMBER P.O. = POST OFFICE © = COPYRIGHT

VICINITY MAP
NOT TO SCALE

Survey Notes:

1. "SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER."
2. "ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES."
3. THE TWO SITE BENCHMARKS FOR THIS TOPOGRAPHIC SURVEY ARE DISPLAYED ON THE RESPECTIVE SURVEY FILE. THESE BENCHMARKS ARE BASED ON A CLOSED VERTICAL CONTROL LOOP HAVING AN ACTUAL ERROR OF CLOSURE OF 0.051' WHICH EXCEEDS THE ALLOWABLE CLOSURE OF 0.027', HOWEVER THE PRIME BENCHMARK USED IS ON SITE, AND WAS THEREFORE DEEMED ACCEPTABLE. THIS FIELDWORK WAS PERFORMED USING A FOCUS 10 RANGER AND REFERENCES THE FOLLOWING PUBLISHED BENCHMARK AS ESTABLISHED BY THE (NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)) AND SAID ELEVATIONS ARE BASED ON VERTICAL CONTROL BENCHMARKS SUPPLIED BY FLORIDA DEPARTMENT OF TRANSPORTATION
   a) DESIGNATION FDOT BM #5, LOCATED NORTHEAST OF BRICK BUILDING AT #1219 UNIVERSITY AVENUE, 12 FEET SOUTH OF EDGE OF PAVEMENT.
      ELEVATION = 166.283 (HELD)
   b) DESIGNATION FDOT BM #6, NAIL AND DISC IN SIGN BASE BP STAMPED BM6 LB2856.
      ELEVATION = 169.308 (NOT USED)

   SITE BENCHMARKS ARE AS SHOWN ON SHEET 2 OF 2.
4. THIS SURVEY IS NOT VALID WITHOUT SHEETS 1 THROUGH 2 OF 2.
5. THE LAST DAY FIELD WORK WAS PERFORMED WAS 2/10/16; ALL BOUNDARY CORNERS WERE RECOVERED OR SET AS NOTED HEREON.
6. THE "LEGAL DESCRIPTION" HEREON IS IN ACCORD WITH THE INSTRUMENT OF RECORD, AND WAS PROVIDED BY THE CLIENT. THE PREPARED LEGAL DESCRIPTION WAS CREATED PER CLIENTS REQUIREMENTS.
7. BEARINGS SHOWN HEREON ARE RELATIVE TO AN ASSUMED DATUM ALONG THE NORTH RIGHT-OF-WAY LINE OF UNIVERSITY AVENUE, AS BEING N 89°22'25" E.
8. HAVING CONSULTED THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NO. 125107-0314-D, CITY OF GAINESVILLE, EFFECTIVE DATE JUNE 16, 2006, THE SUBJECT PROPERTY APPEARS TO LIE IN ZONE X, WHICH ARE AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, THIS DETERMINATION WAS BASED ON A GRAPHIC INTERPOLATION OF SAID MAP AND NOT ON ACTUAL FIELD MEASUREMENTS.
9. THE APPARENT USE OF THE LAND, AS CLASSIFIED BY THE STANDARDS OF PRACTICE RULE CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE ESTABLISHES THAT THE MINIMUM RELATIVE ACCURACY FOR THIS TYPE OF BOUNDARY SURVEY MEET THE HORIZONTAL CONTROL ACCURACY OF 1'/10,000 FEET FOR A HIGH RISK SURVEY. THE MEASUREMENTS AND CALCULATIONS OF THE CLOSED GEOMETRIC FIGURES WERE FOUND TO MEET THIS ACCURACY REQUIREMENT. THE EQUIPMENT USED TO VERIFY THE HORIZONTAL CONTROL ON THE SUBJECT SURVEY WAS A FOCUS 10 ROBOTIC TOTAL STATION.
10. HORIZONTAL WELL-IDENTIFIED FEATURES IN THIS SURVEY AND MAP HAVE BEEN MEASURED TO AN ESTIMATED HORIZONTAL POSITIONAL ACCURACY OF 0.05 (FT). THE EQUIPMENT USED TO LOCATE THE FEATURES WAS A FOCUS 10 ROBOTIC TOTAL STATION.
11. △3 UNLESS OTHERWISE NOTED, ALL RECORD INFORMATION SHOWN HEREON IS BASED ON INFORMATION CONTAINED IN THE COMMITMENT FOR TITLE INSURANCE BY CHICAGO TITLE INSURANCE COMPANY, COMMITMENT ORDER NO. 5207347, EFFECTIVE DATE JANUARY 6, 2015, AT 5:00 PM, HAVING A REVISED DATE OF 2/10/2016 AND WAS PROVIDED BY THE CLIENT.
12. NO UNDERGROUND UTILITIES, FOUNDATIONS OR IMPROVEMENTS, IF ANY, HAVE BEEN LOCATED EXCEPT AS SHOWN.
13. THIS SURVEY DOES NOT IDENTIFY THE LIMITS OR EXTENT OF POTENTIAL JURISDICTIONAL WETLAND BOUNDARIES.
14. FENCES EXISTING ON, OVER OR ADJACENT TO SUBJECT PROPERTY, ARE DISPLAYED HEREON; OWNERSHIP WHETHER SINGULAR OR JOINT WAS NOT DETERMINED BY THIS SURVEY.
15. VERTICAL FEATURE ACCURACY: "ELEVATIONS OF WELL-IDENTIFIED FEATURES CONTAINED IN THIS SURVEY AND MAP HAVE BEEN MEASURED TO AN ESTIMATED VERTICAL POSITIONAL ACCURACY OF 0.05 (FT)."
16. DIMENSIONS ARE SHOWN RELATIVE TO UNITED STATES STANDARD FEET AND DECIMALS THEREOF, UNLESS THE OBJECT SHOWN IS COMMONLY IDENTIFIED IN INCHES, I.E. TREE DIAMETER, PIPE DIAMETER, ETC. TREES DEPICTED ARE COMMON NAMES AND MEASURED AND LABELED AS DIAMETER AT BREAST HEIGHT IN INCHES.
17. CERTAIN INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHTS-OF-WAY, AND/OR OWNERSHIP WERE FURNISHED TO THIS SURVEYOR AS NOTED OR DISPLAYED HEREON.
18. △1 THE UNDERGROUND UTILITIES LABELED UE, UT, UW, UT, UCTV, COMM, AND UG LINES AND TEST HOLES DISPLAYED ON SHEET 2 OF 2 ARE A RESULT OF AN ELECTRONIC FILE CREATED BY SOUTHEASTERN SURVEYING & MAPPING CORP. (6500 ALL AMERICAN BOULEVARD, ORLANDO FL 32810, (407) 292-8580) AND MATCHED TO DIAGRAMS AND DETAIL SHEETS PREPARED BY SOUTHEASTERN SURVEYING & MAPPING CORP.
19. THE UNDERGROUND UTILITIES DEPICTED BY PIPE LINETYPES ARE APPROXIMATE IN NATURE BASED UPON AN INSPECTION OF THE MANHOLE, GRATE, ETC. OF EACH FACILITY. EXISTING PIPES WERE NOT LAMPED OR REMOTELY VIEWED FOR OBSTRUCTIONS OR CONNECTIVITY.

Reference Material

1) UNIVERSITY PLACE, ACCORDING TO THE MAP OR PLAT THEREOF, AS RECORDED IN PLAT BOOK "A", PAGE 115, OF THE PUBLIC RECORDS OF ALACHUA COUNTY, FLORIDA.

2) FDOT R/W MAP FOR ROAD NO. 26, SECTION NO. 2607-107, DATED 3/16/56.

Index of Sheets

1 ALTA/ACSM LAND TITLE SURVEY (COVER SHEET)
2 ALTA/ACSM LAND TITLE SURVEY (BOUNDARY & TOPOGRAPHIC SURVEY)

Surveyor's Certification:

Certified to: McDonald's Restaurants of Florida, a Florida Corporation, McDonald's USA LLC, a Delaware LLC, McDonald's Corporation, a Delaware Corp. & Chicago Title Insurance Company

This is to certify that this map or plat and the survey which it is based were made in accordance with the 2011 Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1-5, 7(a), 8-9, 11(a), 13, and 17 (none observed) of Table A thereof. The field work was completed on February 10, 2016.
And

I hereby certify to McDonald's Corporation that this plan has been compiled from a survey actually made on the ground under my supervision on February 10, 2016; that is is correct and complies with the modified requirements provided by McDonald's Corporation.
And

I hereby certify that the attached "ALTA/ACSM Land Title Survey" of the hereon-described property is true and correct to the best of my knowledge, information and belief as surveyed in the field on February 10, 2016. I further certify that this "Boundary & Topographic Survey" meets the standards of practice set forth in Rule Chapter 5J-17 of the Florida Administrative Code.

For the Firm By: _____

Paul J. Katrek
Professional Surveyor and Mapper
Florida Registration No. 6233

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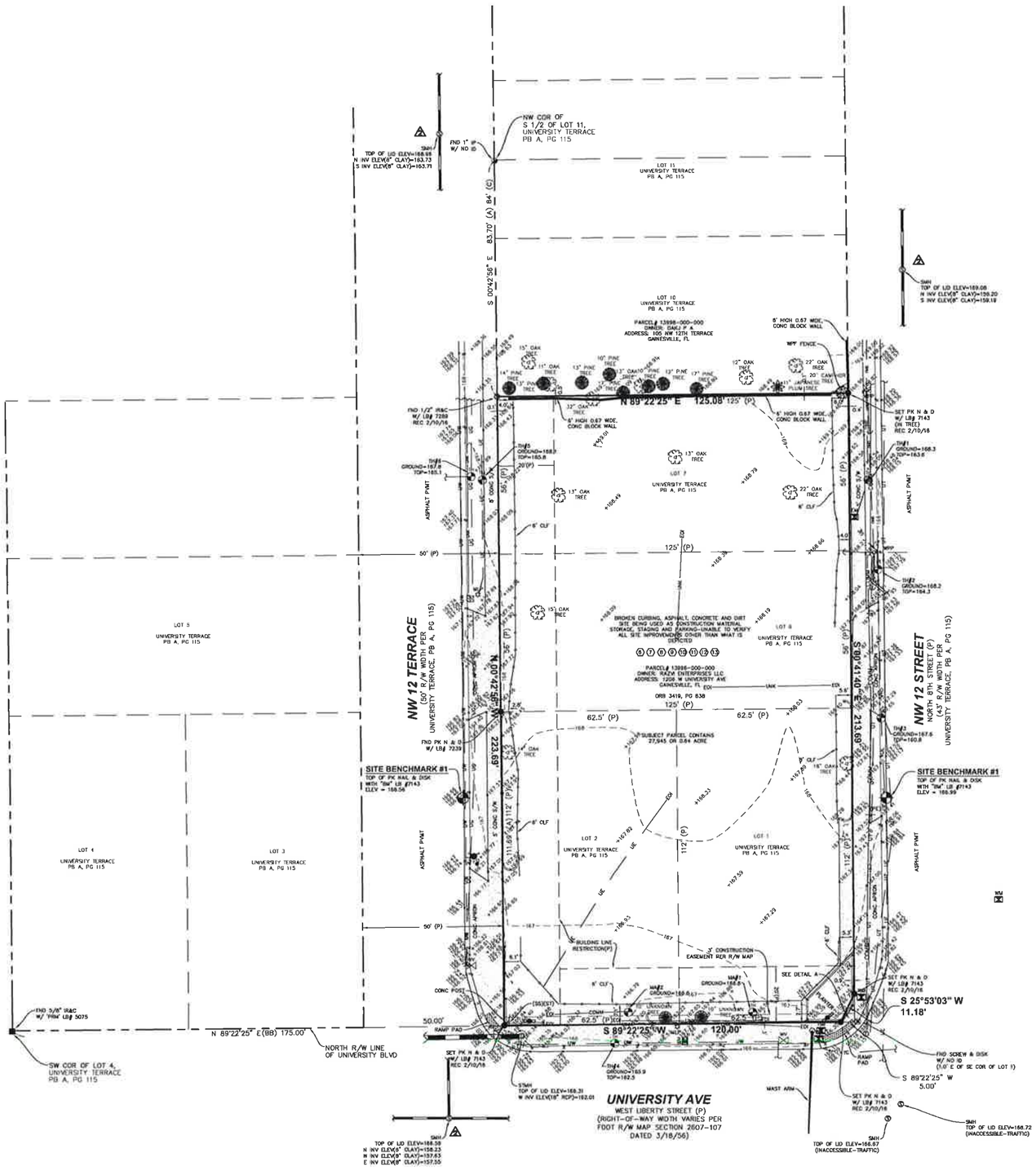
No.	Date	Revision	By
1	2/10/16	UPDATED TITLE AND SURVEY	JTF
2	9/11/15	ADDED UNDERGROUND UTILITIES & TEST HOLES	JTF

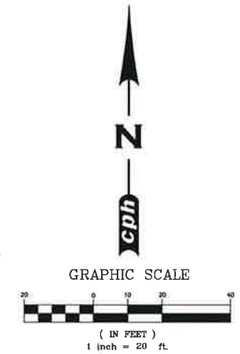
Field Crew:	E.H.
Drawn by:	J.T.F.
Checked by:	R.L.R.
Approved by:	P.J.K.
Scale:	N/A
Date:	2/10/16
Job No.:	M29955
File: M29955.dwg	© 2016

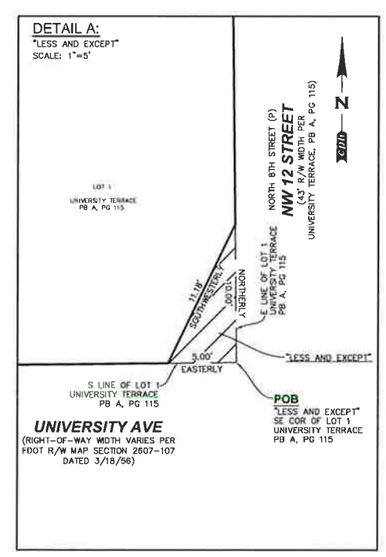
Survey Prepared By:
CPH, Inc.
500 West Fulton St.
Sanford, FL 32771
Ph: 407.322.6841
Licenses:
Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. AA26001926
Landscp. Lic. No. LC0000298

BOUNDARY & TOPOGRAPHIC SURVEY
ALSO BEING AN
(ALTA/ACSM LAND TITLE SURVEY)
McDonald's®
L/C 009-2618
UNIVERSITY AVE
SECTION 5-TOWNSHIP 10 SOUTH-RANGE 20 EAST
CITY OF GAINESVILLE, ALACHUA COUNTY, FLORIDA

Sheet No.
1
of 2







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• Connecticut
• Maryland
• Texas

No.	Date	Revision	By
1	2/10/16	UPDATED TITLE AND SURVEY	JTF
2	9/11/15	ADDED UNDERGROUND UTILITIES & TEST HOLES	JTF

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Drawn by:	J.T.F.
Checked by:	R.L.R.
Approved by:	P.J.K.
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Licensed:
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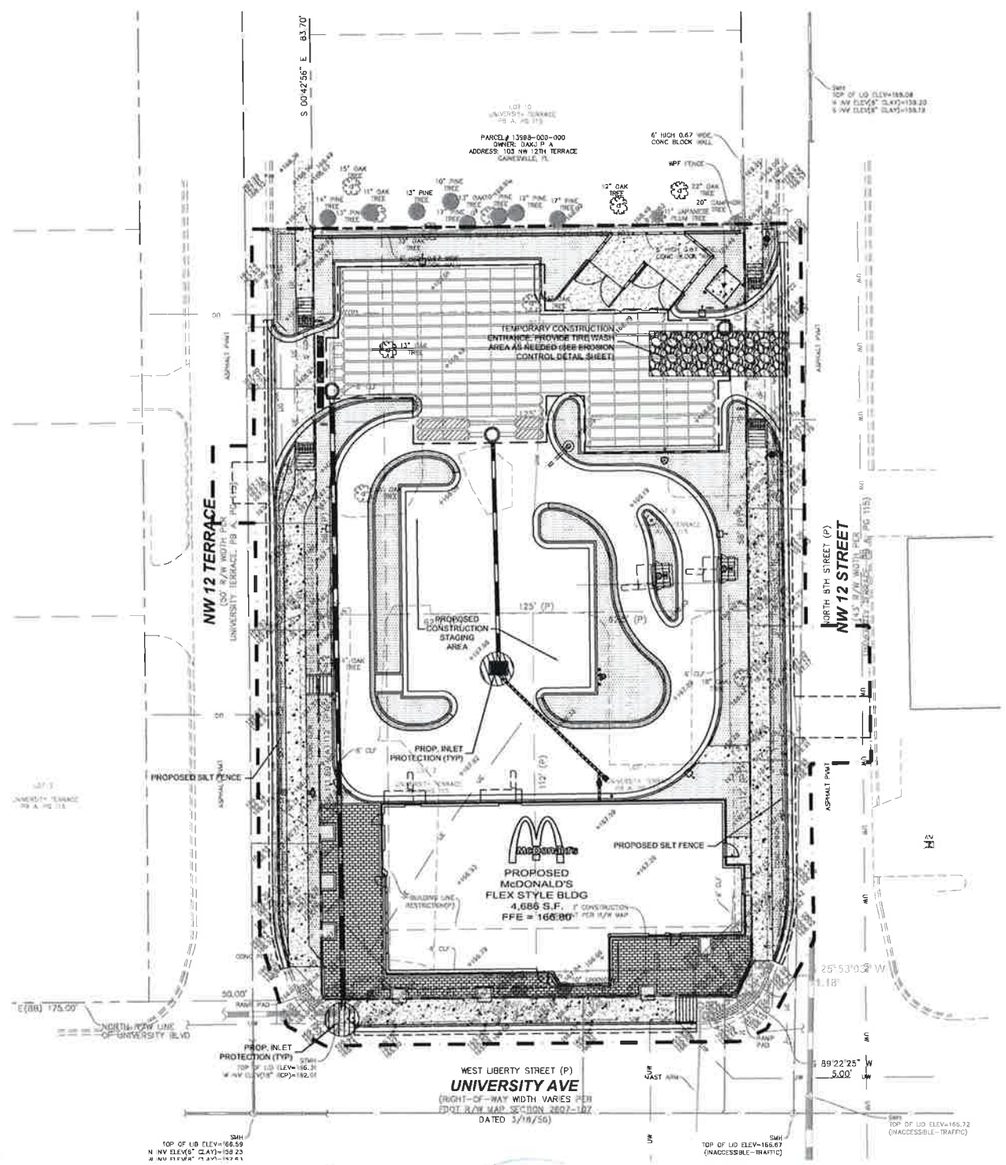
Arch. Lic. No. AA26000928
Lndscp. Lic. No. LC0000298

BOUNDARY & TOPOGRAPHIC SURVEY
ALSO BEING AN
(ALTA/ACSM LAND TITLE SURVEY)

McDonald's

L/C 009-2618
UNIVERSITY AVE
SECTION 5-TOWNSHIP 10 SOUTH-RANGE 20 EAST
CITY OF GAINESVILLE, ALACHUA COUNTY, FLORIDA

Sheet No.
2
of 2



N

GRAPHIC SCALE

0 10 20 40

1 INCH = 20 FEET

LEGEND

- DIRECTION OF FLOW
- LIMITS OF DISTURBANCE
- TEMPORARY STABILIZED CONSTRUCTION ENTRANCE
- PERMANENT SEEDING/VEGETATION RE: LANDSCAPE PLANS
- SF — TEMPORARY SILT FENCE
- PROPOSED INLET PROTECTION
- PROPOSED BARRICADE

SEQUENCE OF CONSTRUCTION

THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF CONSTRUCTION DESCRIBED BELOW. IF THE CONTRACTOR FINDS THAT THE SEQUENCE NEEDS TO BE MODIFIED, THE CONTRACTOR SHALL CONTACT THE CEC FOR FURTHER DIRECTION. THE INSTALLATION OR REMOVAL OF BMPS, EARTH DISTURBANCE, GRADING, TEMPORARY STABILIZATION AND PERMANENT STABILIZATION SHALL BE IMMEDIATELY NOTED IN THE SWPPP IMPLEMENTATION LOG AND ON THE SITE MAP. THE CONTRACTOR SHALL DISTURB ONLY THOSE AREAS NECESSARY TO INSTALL THE BMPS UNTIL DIRECTED IN THE SEQUENCE TO BEGIN CLEARING AND GRUBBING OPERATIONS. ALL TEMPORARY BMPS SHALL BE REPAIRED AND MAINTAINED UNTIL STABILIZATION HAS OCCURRED AND THERE IS NO RISK OF DISCHARGE, THEN THEY SHALL BE REMOVED.

1. POST A COPY OF THE NOI OR LETTER FROM FDEP CONFIRMING COVERAGE UNDER THE GENERIC PERMIT, AND THE NAME AND PHONE NUMBER OF THE CONTRACTOR'S REPRESENTATIVE RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROL INSTALLATION AND MAINTENANCE ON A 24 HOUR BASIS.
2. INSTALL PERIMETER CONTROLS IMMEDIATELY DOWNSTREAM OF THE PLANNED LOCATION OF THE CONSTRUCTION EXIT.
3. INSTALL STABILIZED CONSTRUCTION EXIT.
4. INSTALL REMAINING PERIMETER CONTROLS.
5. INSTALL TEMPORARY PARKING AND STORAGE AREAS (TRAILER, PARKING, LAY DOWN, SANITARY FACILITIES, WHEEL WASH, CONCRETE WASHOUT, MASONS AREA, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC).
6. BEGIN DEMOLITION, CLEARING AND GRUBBING OPERATIONS AS APPLICABLE.
7. BEGIN CONSTRUCTION OF BUILDING PAD AND STRUCTURES.
8. TEMPORARILY SEED, IMMEDIATELY AND THROUGHOUT CONSTRUCTION, DENUDED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE.
9. INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, CURBS AND GUTTERS.
10. INSTALL INLET PROTECTION AROUND ALL STORM SEWER STRUCTURES AS EACH INLET STRUCTURE IS INSTALLED.
11. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
12. PREPARE SITE FOR PAVING.
13. PAVE SITE.
14. INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES.
15. COMPLETE GRADING AND INSTALL PERMANENT STABILIZATION OVER ALL AREAS.
16. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (ONLY IF SITE IS STABILIZED).
17. SUBMIT NOTICE OF TERMINATION (NOT) ONCE ALL CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED PER PLAN.

NOTE:
CONTRACTOR SHALL PAY CLOSE ATTENTION WHEN CLEARING AND/OR GRADING THE SITE TO ENSURE THAT WHEN EXISTING ROOTS ARE ENCOUNTERED THEY ARE CUT OFF EVENLY WITH CLEAN SHARP PRUNING TOOLS. CONTRACTOR SHALL BE RESPONSIBLE FOR MINIMIZING THE DAMAGE OF THE EXISTING ROOT SYSTEMS.

ACREAGE SUMMARY

TOTAL SITE AREA	0.64 AC.
ON-SITE DISTURBED AREA	0.64 AC.
OFF-SITE DISTURBED AREA	0.26 AC.
TOTAL DISTURBED AREA	0.90 AC.

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Stormwater Team

Description	Name	Company
Contractor:		
Contractor's Responsible Authority:		
Qualified Inspector(s):		
Maintenance Personnel:		

The contractor shall complete this table identifying the individuals of the stormwater team and their responsibilities.

RECEIVED MAY 3

STORMWATER POLLUTION PREVENTION NOTES

THIS PLAN HAS BEEN PREPARED TO ENSURE COMPLIANCE WITH RULES OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, CHAPTER 17-25-FAC AND THE ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT.

SITE DESCRIPTION

A. SITE LOCATION:
THE SITE IS LOCATED AT 1206 W. UNIVERSITY AVENUE, GAINESVILLE, FLORIDA

B. SITE CONDITIONS & ACTIVITIES NARRATIVE:
THE EXISTING CONDITION OF THE SITE IS UNDEVELOPED AND HAVE NO MAJOR EFFECT ON ABUTTING PROPERTIES.

WETLANDS/BUFFERS

NO WETLANDS OR BUFFERS ARE ASSOCIATED WITH THIS PROJECT.

SWPPP INTENT

THE INTENT OF THIS SWPPP IS TO COMPLY WITH THE INTENT OF THE GENERIC PERMIT AND TO PREVENT THE RELEASE OF SOILS, TRASH, CHEMICALS, TOXINS AND OTHER POLLUTANTS, BY WATER , AIR, VEHICLE TRANSPORT OR OTHER MEANS THAT CAN IMPACT STORM WATER QUALITY. THE CONTRACTOR SHALL OBTAIN A COPY OF THE GENERIC PERMIT AND RETAIN ON-SITE FOR FUTURE REFERENCE. THE CONTRACTOR SHALL READ AND UNDERSTAND THE PERMIT, AND ENSURE THAT THE BMPS ARE INSTALLED AND THE EXECUTION OF THE WORK IS PERFORMED TO MEET THE INTENT OF THE GENERIC PERMIT AND THE SWPPP.

POTENTIAL SOURCES OF POLLUTION

THE POTENTIAL SOURCES OF POLLUTION THAT MAY REASONABLY BE EXPECTED TO AFFECT THE QUALITY OF STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY INCLUDE: DISTURBED (BARE) SOIL, VEHICLE FUELS AND LUBRICANTS, CHEMICALS AND COATINGS ASSOCIATED WITH SITE OR BUILDING CONSTRUCTION AND PAVEMENT INSTALLATION, CONSTRUCTION GENERATED LITTER AND DEBRIS, AND BUILDING MATERIALS. WITHOUT ADEQUATE CONTROL THERE IS A POTENTIAL FOR EACH TYPE OF POLLUTANT TO BE TRANSPORTED BY STORMWATER.

GENERAL NOTES

A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FILE "NOTICE OF INTENT TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES" (DEP FORM 62-621.300(4)(B) OR LATEST VERSION) TO FDEP TO THE FOLLOWING ADDRESS OR THROUGH THE FDEP ON-LINE SYSTEM AT LEAST TWO (2) DAYS BEFORE COMMENCEMENT OF CONSTRUCTION:

NPDES STORMWATER NOTICES CENTER, MS #2510 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, 2600 BLAIR STONE ROAD, TALLAHASSEE, FLORIDA 32399-2400

AN ENVIRONMENTAL RESOURCE PERMIT, PERMITTED THROUGH ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, HAS BEEN OBTAINED FOR THIS PROJECT. PERMIT NUMBER TBD, ISSUED MONTH/DAY/YEAR.

MS4 OPERATOR NAME (IF ANY): FDOT

THE CONTRACTOR SHALL PROVIDE A COPY OF THE NOI AND SUBSEQUENT NOT TO THE MS4. THE CONTRACTOR SHALL ALSO COORDINATE WITH THE MS4 TO ENSURE THAT ALL SPECIFIC REQUIREMENTS ARE MET.

B. WHERE PRACTICAL, STORMWATER SHALL BE CONVEYED BY SWALES. SWALES SHALL BE CONSTRUCTED AS SHOWN ON PLANS.

C. EROSION CONTROL MEASURES SHALL BE EMPLOYED TO MINIMIZE TURBIDITY OF SURFACE WATERS LOCATED DOWNSTREAM OF ANY CONSTRUCTION ACTIVITY. WHILE THE VARIOUS MEASURES REQUIRED WILL BE SITE SPECIFIC, THEY SHALL BE EMPLOYED AS NEEDED IN ACCORDANCE WITH THE FOLLOWING:

I. IN GENERAL, EROSION SHALL BE CONTROLLED AT THE FURTHEST PRACTICAL UPSTREAM LOCATION.
II. NEW AND EXISTING STORMWATER INLETS AND OUTFALL STRUCTURES SHALL BE PROTECTED DURING CONSTRUCTION. PROTECTION MEASURES SHALL BE EMPLOYED IMMEDIATELY AS REQUIRED DURING THE VARIOUS STAGES OF CONSTRUCTION.
III. PERIMETER EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL FINAL SITE STABILIZATION HAS BEEN ESTABLISHED

D. CLEARING AND GRUBBING OPERATIONS SHALL BE CONTROLLED SO AS TO MINIMIZE UNPROTECTED ERODIBLE AREAS EXPOSED TO WEATHER. GENERAL EROSION CONTROL BMP'S SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION AND OFF-SITE SEDIMENTATION. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED PRIOR TO ANY CONSTRUCTION ACTIVITY.

E. THE CONTRACTOR SHALL FURNISH, INSTALL PER THE SEQUENCE OF CONSTRUCTION, MAINTAIN AND SUBSEQUENTLY REMOVE, ALL NECESSARY TEMPORARY BMPS. THE CONTRACTOR WILL FURNISH AND INSTALL ALL NECESSARY PERMANENT BMPS.

F. THE CONTRACTOR SHALL ADJUST, ADD OR MODIFY BMPS AS NECESSARY TO COMPLY WITH THE INTENT OF THE GENERIC NPDES PERMIT AND THE SWPPP FOR NO ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL CONSULT WITH THE CEC PRIOR TO ADJUSTING, ADDING OR MODIFYING BMPS THAT AFFECT THE HYDRAULICS OF THE SITE OR BEFORE ADDING BMPS NOT DETAILED IN THE SWPPP.

G. THE CONTRACTOR IS ADVISED THAT THE CONTRACT DRAWINGS ONLY INDICATE EROSION, SEDIMENT, AND TURBIDITY CONTROLS AT LOCATIONS DETERMINED IN THE DESIGN PROCESS. HOWEVER, THE CONTRACTOR IS REQUIRED TO PROVIDE ANY ADDITIONAL CONTROLS NECESSARY TO PREVENT THE POSSIBILITY OF SILTING ANY ADJACENT LOVLAND PARCEL OR RECEIVING WATER.

H. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. THE EROSION CONTROL SYSTEM DESCRIBED WITHIN THE CONSTRUCTION DOCUMENTS SHOULD BE CONSIDERED TO REPRESENT THE MINIMUM ACCEPTABLE STANDARDS FOR THIS PROJECT. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDENT UPON THE STAGE OF CONSTRUCTION, THE SEVERITY OF THE RAINFALL EVENT AND/OR AS DEEMED NECESSARY AS A RESULT OF ON-SITE INSPECTIONS BY THE OWNER, THEIR REPRESENTATIVES, OR THE APPLICABLE JURISDICTIONAL AUTHORITIES. THESE ADDITIONAL MEASURES (IF NEEDED) SHALL BE INSTALLED AT NO ADDITIONAL COST TO THE OWNER. IT SHOULD BE NOTED THAT THE MEASURES IDENTIFIED ON THIS PLAN ARE ONLY SUGGESTED BEST MANAGEMENT PRACTICES (BMPS). THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS SPECIFIED IN FDOT INDEXES #100 THROUGH #102 AND AS NECESSARY FOR EACH SPECIFIC APPLICATION. IT IS THE CONTRACTOR'S ULTIMATE RESPONSIBILITY TO ASSURE THAT THE STORMWATER DISCHARGE FROM THE SITE DOES NOT EXCEED THE TOLERANCES ESTABLISHED BY ANY OF THE APPLICABLE JURISDICTIONAL AUTHORITIES.

I. DISCHARGES RESULTING FROM GROUND WATER DEWATERING ACTIVITIES ARE NOT COVERED BY THE NPDES GENERIC PERMIT. SEPARATE PERMIT COVERAGE MUST BE OBTAINED BY THE CONTRACTOR UNDER THE DEPARTMENT'S GENERIC PERMIT FOR DISCHARGE OF PRODUCED GROUND WATER FROM ANY NON-CONTAMINATED SITE ACTIVITY PURSUANT TO SUBSECTION 62-621.300(2), F.A.C.

J. THE CONTRACTOR SHALL ENSURE THAT THE CONTRACTOR AND ALL SUBCONTRACTORS RESPONSIBLE FOR IMPLEMENTING SWPPP CONTROL MEASURES FILL OUT THE CONTRACTOR / SUBCONTRACTOR CERTIFICATION TABLE INCLUDED IN THIS SWPPP.

K. THE CONTRACTOR SHALL COMPLETE THE CONSTRUCTION SEQUENCE TABLE INCLUDING IN THIS SWPPP PRIOR TO PROCEEDING WITH THE INSTALLATION OF BMPS AND PRIOR TO GROUND DISTURBING ACTIVITIES. THE CONTRACTOR SHALL COMPLETE THE TABLE WITH ANTICIPATED DATES IN WHICH THE BMP WILL BE UTILIZED OR THE ACTIVITY WILL OCCUR.

STABILIZATION

A. STABILIZATION MEASURES SHALL BE INITIATED IMMEDIATELY IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED AND WILL REMAIN UNDISTURBED FOR 7 DAYS OR MORE. STABILIZE BY COVERING WITH ADEQUATE AMOUNTS OF MULCH OVER SEED AND PERIODICALLY WATER TO PROMOTE AND MAINTAIN GROWTH OF THE TEMPORARY GROUNDCOVER, OR BY THE USE OF AN APPROPRIATE ALTERNATIVE BMP.

B. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES OR ANY DISTURBED LAND AREAS SHALL BE COMPLETED IMMEDIATELY AFTER FINAL GRADING. WHEN IT IS NOT POSSIBLE TO PERMANENTLY PROTECT A DISTURBED AREA IMMEDIATELY AFTER GRADING OPERATIONS, TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED. ALL TEMPORARY PROTECTION SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND ESTABLISHED.

C. ALL GRASS SLOPES CONSTRUCTED STEEPER THAN 4H:1V SHALL BE SODDED IMMEDIATELY AFTER FINAL GRADE IS ESTABLISHED.

DUST CONTROL

A. BARE EARTH AREAS SHALL BE WATERED DURING CONSTRUCTION AS NECESSARY TO MINIMIZE THE TRANSPORT OF FUGITIVE DUST. IN NO CASE SHALL FUGITIVE DUST BE ALLOWED TO LEAVE THE SITE UNDER CONSTRUCTION.

B. AS REQUIRED AFTER COMPLETION OF CONSTRUCTION, BARE EARTH AREAS SHALL BE VEGETATED.

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

WASTE MANAGEMENT

A. THE CONTRACTOR SHALL ENSURE THAT ALL WASTE AND DEBRIS ARE MANAGED DAILY SUCH THAT THEY WILL NOT IMPACT STORMWATER OR LEAVE THE PERMITTED AREA, AND DISPOSED OF PROPERLY IN ACCORDANCE WITH APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS.

B. THE CONTRACTOR SHALL ENSURE THAT ALL CHEMICALS, OILS, FUELS, HAZARDOUS WASTE, UNIVERSAL WASTE AND TOXIC SUBSTANCES ARE PROPERLY MANAGED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL ENSURE THAT WASTE IS NOT DISCHARGED FROM THE SITE, AND DOES NOT IMPACT STORMWATER OR GROUNDWATER.

C. THE CONTRACTOR SHALL PROVIDE APPROPRIATE AND ADEQUATE WASHOUT FACILITIES TO ENSURE THAT CHEMICALS AND WASTE IS NOT DISCHARGED FROM THE SITE, AND DO NOT IMPACT STORMWATER OR GROUNDWATER. (E.G. CONCRETE/MASONRY WASHOUT, PAINT WASHOUT, EIFS, ETC.) THE CONTRACTOR SHALL CLEAN UP SPILLS PROMPTLY AND ENSURE THAT WASHOUT AREAS ARE PROPERLY MAINTAINED TO PROVIDE ADEQUATE VOLUME TO PREVENT OVERFLOW.

D. THE CONTRACTOR SHALL PROVIDE ADEQUATE SANITARY FACILITIES FOR SITE PERSONNEL MAINTAIN THROUGHOUT CONSTRUCTION, AND PROVIDE FOR PROPER DISPOSAL IN ACCORDANCE WITH APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS. SANITARY FACILITIES SHALL BE PROPERLY SECURED TO PREVENT TIPPING.

E. WHEN A SPILL OF REPORTABLE QUANTITIES IS DISCOVERED ON THE SITE, THE CONTRACTOR SHALL CLEAN UP ALL SPILLED MATERIALS AND DISPOSE OF IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE AUTHORITIES IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS. THE OWNER AND PROJECT ENGINEER. THE CONTRACTOR SHALL RETAIN CLEANUP INFORMATION AS WELL AS DISPOSAL MANIFESTS WITH THEIR SWPPP.

MATERIALS MANAGEMENT, AND EQUIPMENT STAGING AND MAINTENANCE

A. EXCAVATED MATERIAL SHALL NOT BE DEPOSITED IN LOCATIONS WHERE IT COULD BE WASHED AWAY BY HIGH WATER OR STORM WATER RUNOFF. STOCKPILED MATERIAL SHALL BE COVERED OR ENCIRCLED WITH SEDIMENT CONTAINMENT DEVICES.

B. HEAVY CONSTRUCTION EQUIPMENT PARKING AND MAINTENANCE AREAS SHALL BE DESIGNED TO PREVENT OIL, GREASE, AND LUBRICANTS FROM ENTERING SITE DRAINAGE FEATURES INCLUDING STORMWATER COLLECTION AND TREATMENT SYSTEMS. CONTRACTORS SHALL PROVIDE BROAD DIKES OR SILT SCREENS AROUND, AND SEDIMENT SUMPS WITHIN, SUCH AREAS AS REQUIRED TO CONTAIN SPILLS OR OIL, GREASE, LUBRICANTS, OR OTHER CONTAMINANTS. CONTRACTOR SHALL HAVE AVAILABLE, AND SHALL USE, ABSORBENT FILTER PADS TO CLEAN UP SPILLS IMMEDIATELY AFTER ANY OCCURRENCE.

C. THE CONTRACTOR SHALL ENSURE THAT ALL TOXIC / HAZARDOUS SUBSTANCES AND CHEMICALS ARE PROPERLY STORED, OUT OF THE WEATHER, AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR SHALL ENSURE THAT THESE PRODUCTS ARE USED IN SUCH A MANNER THAT WILL NOT NEGATIVELY IMPACT STORMWATER, GROUNDWATER OR PROTECTED SPECIES.

D. THE CONTRACTOR SHALL ENSURE THAT ALL MATERIALS, EQUIPMENT, DEBRIS, WASTE, TRAILERS, AND OTHER SUPPORT RELATED ITEMS ARE CONTAINED WITHIN THE PERMITTED LIMITS OF DISTURBANCE. THE CONTRACTOR SHALL ENSURE THAT THE STORAGE AND USE OF SUCH ITEMS DOES NOT NEGATIVELY IMPACT STORMWATER OR GROUNDWATER.

OFFSITE VEHICLE TRACKING

A. THE CONTRACTOR SHALL ENSURE THAT THE CONSTRUCTION EXIT IS USED BY ALL VEHICLES AND EQUIPMENT ENTERING OR LEAVING THE JOBSITE. THE CONTRACTOR SHALL MONITOR AND MAINTAIN THE CONSTRUCTION EXIT TO ENSURE THAT NO SOILS ARE TRACKED OFFSITE BY TIRES OR TRACKS, AND THAT NO SOILS ARE SPILLED BY TRUCKS OR EQUIPMENT LEAVING THE SITE. ALL TRACKED OR SPILLED SOILS SHALL BE SHOVELED OR SWEPT FROM THE ROADWAY AND RETURNED TO THE SITE. WATER SHALL NOT BE USED TO CLEAN THE SOILS FROM THE ROADWAY UNLESS THE WATER AND SOILS ARE RECOVERED BY THE USE OF A VACUUM TRUCK OR SIMILAR DEVICE.

FERTILIZERS, HERBICIDES AND PESTICIDES

A. THE CONTRACTOR SHALL ENSURE THAT ALL FERTILIZERS, HERBICIDES, PESTICIDES AND SIMILAR PRODUCTS ARE PROPERLY STORED, OUT OF THE WEATHER, AND APPLIED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. THE CONTRACTOR SHALL ENSURE THAT THESE PRODUCTS ARE USED IN SUCH A MANNER THAT WILL NOT NEGATIVELY IMPACT STORMWATER, GROUNDWATER OR PROTECTED SPECIES.

B. NUTRIENTS SHALL BE APPLIED ONLY AT RATES NECESSARY TO ESTABLISH AND MAINTAIN VEGETATION.

INSPECTIONS AND MAINTENANCE

A. THE CONTRACTOR SHALL INSPECT BMPS (I.E. DISCHARGE LOCATIONS, CONSTRUCTION EXIT, PERIMETER CONTROLS, INLET PROTECTION, STABILIZATION, EROSION CONTROL, DOCUMENTATION, WASTE DISPOSAL, AREAS, MATERIAL STORAGE AREAS, ETC.) TO DETERMINE IF CONSTRUCTION ACTIVITIES HAVE ALTERED THE EFFECTIVENESS BMPS. CONFIRM BMPS ARE ACHIEVING PERMIT COMPLIANCE, AND MAINTAIN BMPS AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS, AND WITHIN 24 HOURS AFTER A RAINSTORM IN EXCESS OF 0.50 INCHES.

B. THE CONTRACTOR SHALL REPORT ALL INSPECTION FINDINGS AND CORRECTIVE ACTIONS TAKEN AS A RESULT OF THE INSPECTION USING THE STORMWATER POLLUTION PREVENTION PLAN INSPECTION REPORT FORM PROVIDED BY FDEP OR AN EQUIVALENT FORM. INSPECTION REPORTS SHALL BE SIGNED BY THE INSPECTOR AND MAINTAINED FOR FUTURE REFERENCE AS NEEDED. THE INSPECTOR MUST BE A QUALIFIED EROSION AND SEDIMENT CONTROL INSPECTOR AS DEFINED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

C. ANY MAINTENANCE, REPAIR AND NECESSARY REVISIONS TO BMP ITEMS SHALL BE ADDRESSED IN A TIMELY MANNER, BUT IN NO CASE LATER THAN 7 CALENDAR DAYS FOLLOWING THE INSPECTION. UNLESS OTHERWISE SPECIFIED, ACCUMULATED SEDIMENTS SHOULD BE REMOVED BEFORE THEY REACH ONE-HALF OF THE CAPACITY OF THE CONTROL DEVICE.

ALLOWABLE NON-STORMWATER DISCHARGES

THE GENERIC PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES PROHIBIT MOST NON-STORMWATER DISCHARGES DURING THE CONSTRUCTION PHASE. ALLOWABLE NON-STORMWATER DISCHARGES THAT OCCUR DURING CONSTRUCTION ON THIS PROJECT PER PART IV.A.3 OF THE GENERIC PERMIT ARE: DISCHARGES FROM FIREFIGHTING ACTIVITIES; FIRE HYDRANT FLUSHING; WATER USED TO SPRAY OFF LOOSE SOILDS FROM VEHICLES (WASTEWATER FROM A MORE THOROUGH CLEANING, INCLUDING THE USE OF DETERGENTS OR OTHER CLEANERS IS NOT AUTHORIZED BY THIS PART) OR CONTROL DUST IN ACCORDANCE WITH PART V.D.2.C.(2) OF THE GENERIC PERMIT; POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHINGS; IRRIGATION DRAINAGE; ROUTINE EXTERNAL BUILDING WASHDOWN WHICH DOES NOT USE DETERGENTS; PAVEMENT WASHWATERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS ALL SPILLED MATERIAL HAS BEEN REMOVED) AND WHERE DETERGENTS ARE NOT USED; AIR CONDITIONING CONDENSATE; SPRINGS; AND FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS SOLVENTS.

RETENTION OF RECORDS

THE PERMITTEE SHALL RETAIN COPIES OF STORMWATER POLLUTION PREVENTION PLANS AND ALL REPORTS REQUIRED BY THIS PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT. FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED.

REFERENCES

THE CONSTRUCTION PLANS AND SPECIFICATIONS FOR JOB #M29955 AS PREPARED BY CPH, INC. ON DECEMBER 15, 2015 ARE HEREBY REFERENCED AND MADE A PART OF THIS PLAN.

CONSTRUCTION SEQUENCING TABLE

ANTICIPATED CONSTRUCTION SEQUENCE*	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
CONSTRUCTION ENTRANCE									
TEMPORARY CONTROL MEASURES									
STORM FACILITIES									
ROUGH GRADE / SEDIMENT CONTROL									
FOUNDATION / BUILDING CONSTRUCTION									
SITE CONSTRUCTION									
FINISH GRADING									
PERMANENT CONTROL MEASURES									

* THIS IS ONLY A GUIDE. CONTRACTOR IS TO USE HIS JUDGMENT TO MODIFY AS NEEDED.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name (Operator and/or Responsible Authority) Date

Project Name and location Information:

McDONALD'S PROJECT CODE: 009-2618

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No.	Date	Revision	By

Designed by:	C.O.B.	Approved by:	W.P.O.
Drawn by:	P.W.R.	Scale:	1"=20'
Checked by:	B.P.C.	Date:	12-15-15
Job No.:	M29955		

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STORMWATER POLLUTION PREVENTION PLAN

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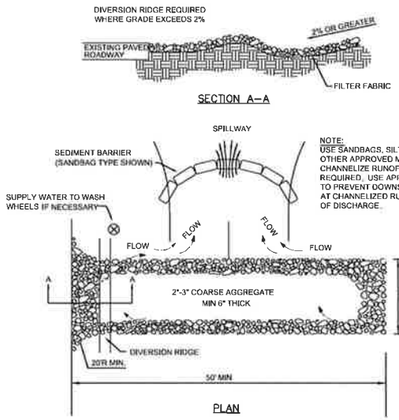
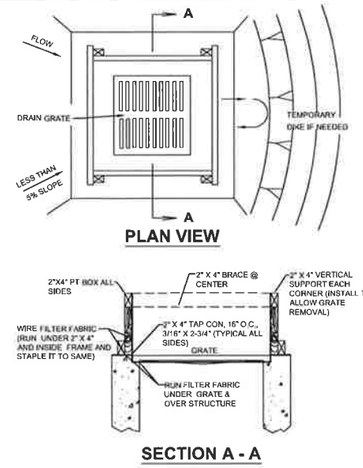
Sheet No.
C-3

J:\M29955\Civil\DWG\Design\M29955-SWPPP.dwg Apr 29, 2016 - 7:38am dschneider



NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

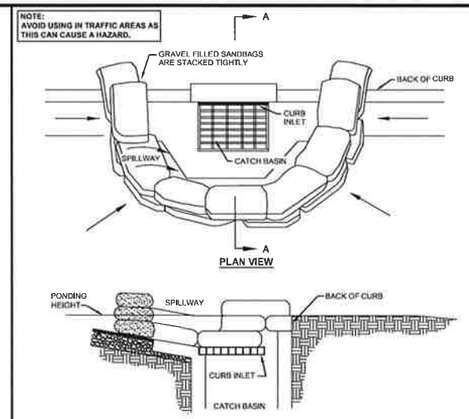
TEMPORARY CONSTRUCTION EXIT DETAIL
N.T.S.



NOTES:
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%).
2. THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.
3. FASTEN FRAMING TO STRUCTURE TO ALLOW GRATE REMOVAL.
4. LEAVE EXPOSED EDGE TO ALLOW FOR PAVING TO GRADE

FILTER FABRIC INLET PROTECTION DETAIL
N.T.S.

NOTE:
AVOID USING IN TRAFFIC AREAS AS THIS CAN CAUSE A HAZARD.



NOTES:
1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. SANDBAGS OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
3. LEAVE ONE SANDBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY FOR OVERFLOW.
4. INSPECT BARRIERS AND REMOVE SEDIMENT AS NECESSARY. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

CURB INLET PROTECTION DETAIL
N.T.S.

CONTRACTOR / SUBCONTRACTOR CERTIFICATION TABLE

THIS SWPPP MUST CLEARLY IDENTIFY, FOR EACH MEASURE IDENTIFIED WITHIN THE SWPPP, THE CONTRACTOR(S) OR SUBCONTRACTOR(S) WHO WILL IMPLEMENT EACH MEASURE. ALL CONTRACTOR(S) AND SUBCONTRACTOR(S) IDENTIFIED IN THE SWPPP MUST SIGN THE FOLLOWING CERTIFICATION:

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

Name / Signature	Title	Company Name, Address and Phone Number	Date

NOTE: CONTRACTOR TO ADD SHEETS TO CERTIFICATION TABLE AS NECESSARY.

SWPPP IMPLEMENTATION LOG

A RECORD OF DATES WHEN BMPs ARE INSTALLED OR REMOVED, STABILIZATION MEASURES ARE INITIATED, MAJOR GRADING ACTIVITIES OCCUR, AND CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON PORTIONS OF THE SITE. THIS FORM MUST BE UPDATED CONTINUOUSLY THROUGHOUT THE PROJECT UNTIL THE NOTICE OF TERMINATION (NOT) IS FILED.

DESCRIPTION OF ACTIVITY	LOCATION	CONTRACTOR	BEGIN DATE	END DATE

NOTE: CONTRACTOR TO ADD SHEETS TO THE SWPPP IMPLEMENTATION LOG AS NECESSARY.

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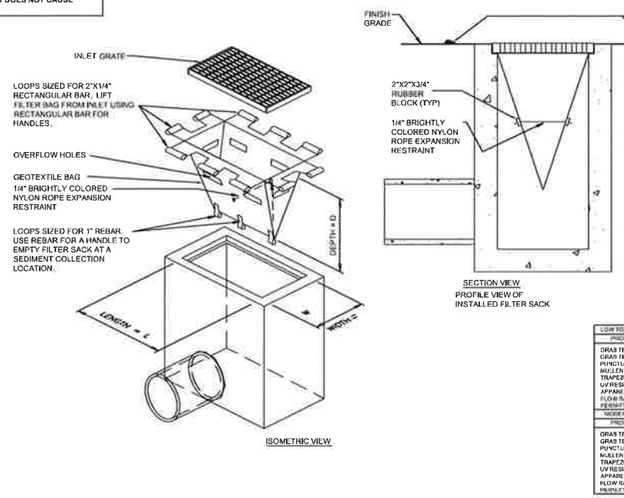
CAUTION: BAGGED INLET PROTECTION REQUIRES ADDITIONAL MAINTENANCE TO ENSURE THAT THE BMP FUNCTIONS PROPERLY AND DOES NOT CAUSE FLOODING.



1. REMOVE TRAPPED SEDIMENT WHEN BRIGHTLY COLORED EXPANSION RESTRAINT CAN NO LONGER BE SEEN.
2. GEOTEXTILE SHALL BE A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS REQUIREMENTS IN THE SPECIFICATIONS TABLE.
3. PLACE AN OIL ADSORBENT PAD OR PILLOW OVER INLET GRATE WHEN OIL SPILLS ARE A CONCERN.
4. INSPECT PER REGULATORY EQUIREMENTS.
5. THE WIDTH, "W", OF THE FILTER SACK SHALL MATCH THE INSIDE WIDTH OF THE GRATED INLET BOX.
6. THE DEPTH, "D", OF THE FILTER SACK SHALL BE BETWEEN 18 INCHES AND 36 INCHES.
7. THE LENGTH, "L", OF THE FILTER SACK SHALL MATCH THE INSIDE LENGTH OF THE GRATED INLET BOX.
8. EXTRA CARE SHALL BE TAKEN TO ENSURE REGULAR MAINTENANCE OF FILTER SACKS USED IN RIGHT OF WAY TO ENSURE ADEQUATE DRAINAGE CAPACITY.

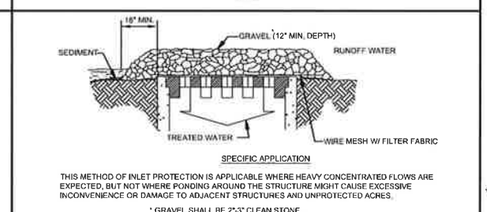
LOW TO MODERATE FLOW GEOTEXTILES FABRIC SPECIFICATION TABLE

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	30 %
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	500 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GPL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.05 SEC -1

MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	250 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	130 LBS
MULLEN BURST	ASTM D-3786	320 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	0.5 SEC -1

GEOTEXTILE BAG INLET PROTECTION DETAIL
N.T.S.



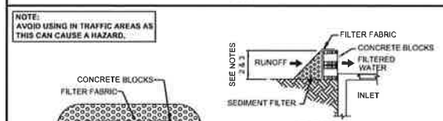
SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED ACRES.

* GRAVEL SHALL BE 2"-3" CLEAN STONE

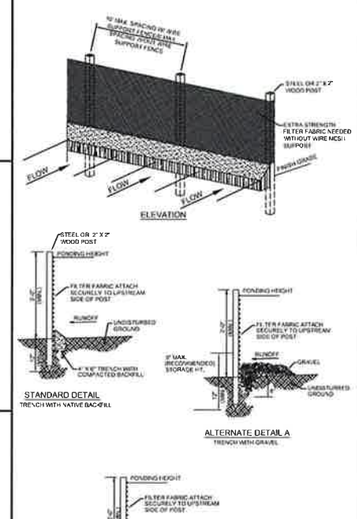
GRAVEL & WIRE MESH INLET SEDIMENT FILTER
N.T.S.

NOTE:
AVOID USING IN TRAFFIC AREAS AS THIS CAN CAUSE A HAZARD.



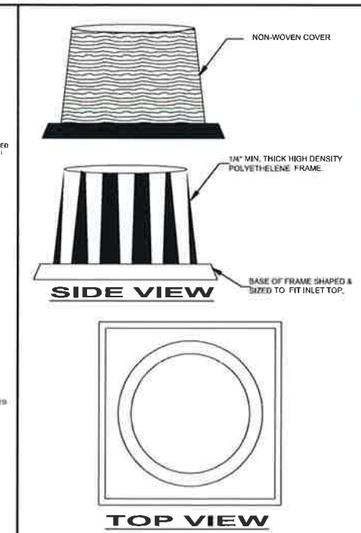
1. PLACE CONCRETE BLOCKS IN A SINGLE ROW AROUND PERIMETER OF INLET ON THEIR SIDES, WITH ENDS OF ADJACENT BLOCKS ABUTTING.
2. HEIGHT OF BARRIER VARIES, USE STACKS OF 4-INCH, 8-INCH, OR 12" BLOCKS, MIN.
3. HEIGHT OF BARRIER 12" AND MAX. HEIGHT OF 24" PLACE FILTER FABRIC OVER VERTICAL FACE OF CONCRETE BLOCKS.
4. THE SEDIMENT FILTER SHALL BE ANY NON-ERODIBLE MATERIAL SUCH AS LOOSE ROCK. BROKEN CONCRETE THAT WILL SLOW THE FLOW OF THE WATER AND ALLOW IT TO FILTER THROUGH AND OVER THE MATERIAL BEFORE ENTERING THE INLET.

BLOCK AND AGGREGATE INLET SEDIMENT FILTER
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.

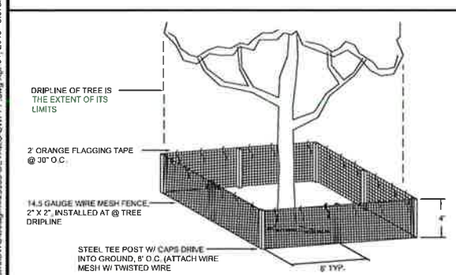
SEDIMENTATION / SILT FENCE
N.T.S.



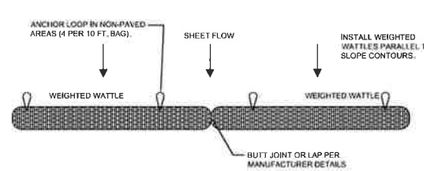
TYPICAL CONSTRUCTION SEQUENCE FOR DOME FRAME & COVER

1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.
2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
3. SLIDE THE COVER OVER THE FRAME.
4. FILL THE COVER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE COVER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
5. BACK FILL AROUND THE FRAME AND COVER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACKFILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.

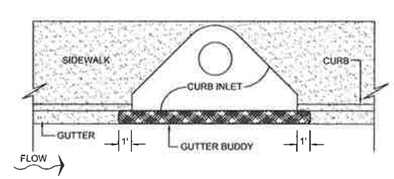
DOMED INLET PROTECTION (PREFABRICATED)
N.T.S.



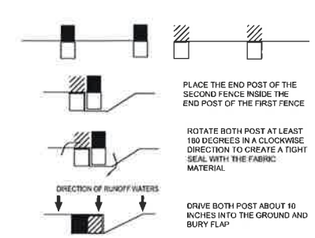
TREE PROTECTION DETAIL
N.T.S.



WEIGHTED WATTLE DETAIL
N.T.S.

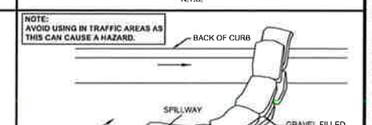


CURB INLET PROTECTION DETAIL
N.T.S.



ATTACHING TWO SILT FENCES
N.T.S.

NOTE:
AVOID USING IN TRAFFIC AREAS AS THIS CAN CAUSE A HAZARD.



NOTES:
1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. SANDBAGS OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
3. TAPER TO ONE SANDBAG TO PROVIDE A SPILLWAY FOR OVERFLOW.
4. INSPECT BARRIERS AND REMOVE SEDIMENT AS NECESSARY. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

CURB LINE PROTECTION DETAIL
N.T.S.

McDONALD'S PROJECT CODE: 009-2618

No.	Date	Revision	By

Designed by: C.G.B.
Drawn by: P.W.R.
Checked by: B.P.C.
Approved by: W.P.O.
Scale: NTS
Date: 12-15-15
Job No.: M29955
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STORMWATER POLLUTION PREVENTION PLAN DETAILS

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CITY OF GAINESVILLE / FLORIDA

Sheet No.
C-4

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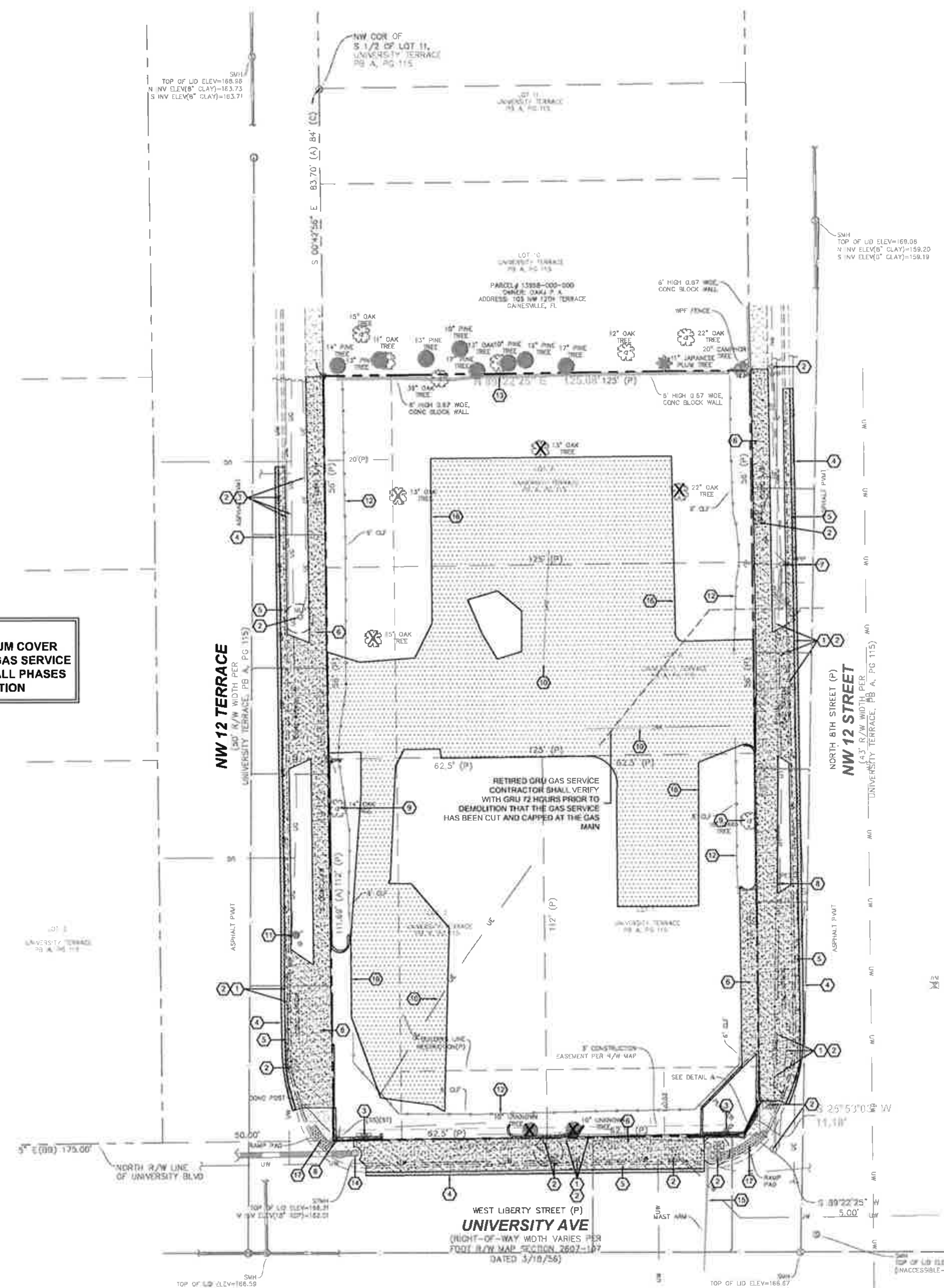
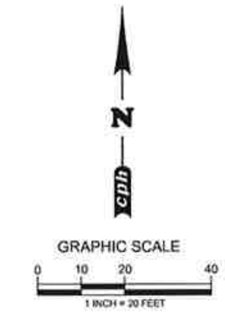
NOTE:
MAINTAIN 36" MINIMUM COVER OVER GAS MAIN AND GAS SERVICE CROSSINGS DURING ALL PHASES OF CONSTRUCTION





NOTE:
COORDINATE WITH TIM RAMSEY OF ACDEP, AS NECESSARY, REGARDING ABANDONMENT OF ANY ONSITE MONITORING WELLS OR CONTAMINATED SOILS. ALSO CONTACT ROBERT KINSLEY-MOMBERGER - PETROLEUM SECTION (352-264-6819) SHOULD ANY CONTAMINATED SOILS BE ENCOUNTERED. ANY DEWATERING REQUIRES FDEP NPDES PERMIT AND APPROPRIATE TREATMENT SYSTEM.

KEYNOTES LEGEND

1. CONTRACTOR TO USE CAUTION WHEN DIGGING AROUND EXISTING UTILITIES (CONTACT UTILITY PROVIDERS FOR UTILITY LOCATES)
2. CONTRACTOR TO PROTECT AND SAVE EXISTING UTILITIES
3. ALL EXISTING LIGHT POLES ON SITE TO BE REMOVED (TYP.)
4. LIMITS OF ASPHALT REMOVAL
5. EXISTING ASPHALT CURBING TO BE REMOVED (TYP)
6. EXISTING CONCRETE TO BE REMOVED (TYP)
7. EXISTING POWER POLE TO BE RELOCATED
8. EXISTING SIGN TO BE SAVED AND PROTECTED
9. EXISTING TREE TO BE SAVED AND PROTECTED
10. EXISTING UTILITY TO BE REMOVED (TYP)
11. REMOVE EXISTING FIRE HYDRANT. COORDINATE WITH GRU WATER INSPECTOR 7 DAYS IN ADVANCE
12. REMOVE EXISTING CHAINLINK FENCE
13. EXISTING SCREEN WALL TO BE REMOVED
14. PROTECT AND SAVE EXISTING CURB INLET
15. PROTECT AND SAVE EXISTING MAST ARM
16. EXISTING CONCRETE TO BE REMOVED (SCALED FROM AERIAL±)
17. EXISTING FDOT CURB RAMPS TO REMAIN

EXISTING AREA CALCULATIONS

BUILDING AREA:	0 S.F.
PERVIOUS AREA:	16,952 S.F. (61%)
IMPERVIOUS AREA:	10,993 S.F. (39%)
TOTAL:	27,945 S.F.

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DEMOLITION NOTES

1. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST 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 ON SITE LOCATIONS OF EXISTING UTILITIES.
2. CHAPTER 553.851 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATING.
3. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, SUPERVISION, AND EQUIPMENT REQUIRED FOR THE ORDERLY DEMOLITION AND REMOVAL OF EXISTING STRUCTURES, PAVEMENT AND UTILITIES AS SHOWN ON THE DRAWINGS AND DESCRIBED HEREIN.
4. THE CONTRACTOR IS REQUIRED TO FAMILIARIZE HIMSELF WITH THE STRUCTURES TO BE DEMOLISHED. A BRIEF DESCRIPTION OF THE STRUCTURES IS INCLUDED FOR THE CONTRACTOR'S CONVENIENCE ONLY.
5. THE FOLLOWING LIST OF STRUCTURES REQUIRING DEMOLITION IS INCLUDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE DRAWINGS INDICATE THE SCOPE OF DEMOLITION WHERE DEMOLITION IS REQUIRED.
   A. DEMOLITION AND REMOVAL OF EXISTING CONC. BLOCK BUILDING
   B. DEMOLITION AND REMOVAL OF EXISTING ON SITE ASPHALT, CONCRETE PAVING AND CURBING TO LIMITS SHOWN.
   C. REMOVAL OF EXISTING ONSITE ABOVE-GROUND AND UNDERGROUND UTILITIES, INCLUDING REMOVAL AND/OR PLUGGING OF EXISTING UTILITIES AS SHOWN ON PLANS.
6. PRIOR TO REMOVAL OF ANY UNDERGROUND SEWAGE TANK AND COMPONENTS FROM SERVICE, CONTRACTOR MUST COMPLETELY DRAIN THE SYSTEMS TO AN APPROVED SANITATION TANK FOR DISPOSAL AT AN APPROVED LOCATION AND IN ACCORDANCE WITH LOCAL & STATE REQUIREMENTS.
7. ALL ON SITE UNDERGROUND STRUCTURES AND PIPING MUST BE COMPLETELY REMOVED AND OVEREXCAVATED BY A MINIMUM OF 12" BENEATH THE STRUCTURES. CONTRACTOR SHALL USE APPROVED FILLING MATERIAL FOR FILLING THESE AREAS. FILL SHALL BE OF CLEAN, FINE SAND AASHTO CLASS A-3 AND SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8" IN THICKNESS AND COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557).
8. ALL EXISTING STRUCTURES, PAVEMENTS, SLABS, FOUNDATIONS, STEPS, AND OTHER EXISTING FEATURES INDICATED ON THE DRAWINGS TO BE REMOVED SHALL BE DEMOLISHED AND REMOVED BY THE CONTRACTOR. REMOVE NO STRUCTURE SUBSTANTIALLY AS A WHOLE. DEMOLISH COMPLETEY ON THE PREMISES.
9. 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.
10. ELECTRICAL, TELEPHONE, CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY PRIOR TO COMMENCEMENT OF CONSTRUCTION. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS A NECESSITY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE.
11. PROVIDE ADEQUATE PROTECTION FOR PERSONS AND PROPERTY AT ALL TIMES. EXECUTE THE WORK IN A MANNER TO AVOID HAZARDS TO PERSONS AND PROPERTY AND PREVENT INTERFERENCE WITH THE USE OF AND ACCESS TO ADJACENT BUILDINGS. STREETS AND SIDEWALKS SHALL NOT BE BLOCKED BY DEBRIS AND EQUIPMENT.
12. AIR HAMMERS OR OTHER DEVICES WILL BE PERMITTED ON EXTERIOR WORK.
13. CONTRACTOR MUST STOP OPERATION AND NOTIFY THE OWNER FOR PROPER DIRECTION IF ANY ENVIRONMENTAL OR HEALTH RELATED CONTAMINATE IS ENCOUNTERED DURING THE DEMOLITION/EXCAVATION PROCESS.
14. REMOVE AND LEGALLY DISPOSE OF ALL OTHER RUBBISH, RUBBLE, AND DEBRIS. COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS GOVERNING DISPOSAL OF WASTES AND DEBRIS.
15. PAVEMENT REMOVAL:
   A. WHERE EXISTING PAVEMENT IS TO BE REMOVED, SAW-CUT THE SURFACING LEAVING A UNIFORM AND STRAIGHT EDGE WITH MINIMUM DISTURBANCE TO THE REMAINING ADJACENT SURFACING. IF CONSTRUCTION RESULTS IN RAVELING OF THE SAW-CUT SURFACE, RECUT BACK FROM THE RAVELED EDGE PRIOR TO RESTORATION.
   B. WHERE EXISTING PAVEMENT, CURB, CURB AND GUTTER, SIDEWALK, DRIVEWAY, OR VALLEY GUTTER IS REMOVED FOR THE PURPOSE OF CONSTRUCTING OR REMOVING BOX CULVERTS, PIPE, INLETS, MANHOLES, APPURTENANCES, FACILITIES OR STRUCTURES, SAID PAVEMENT, ETC., SHALL BE REPLACED AND RESTORED IN EQUAL OR BETTER CONDITION THAN THE ORIGINAL. CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, MATERIALS, EQUIPMENT, TOOLS, SUPPLIES, AND OTHER EQUIPMENT AS REQUIRED.
16. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
17. PERMITTING: IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY REQUIRED PERMITTING FOR DEMOLITION FROM RESPONSIBLE REGULATORY AGENCIES AND FULLY ACKNOWLEDGE AND COMPLY WITH ALL REQUIREMENTS PRIOR TO COMMENCING DEMOLITION WORK.
18. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE EXTENT OF DEMOLITION REQUIRED IN ORDER TO PERFORM THE CONTRACT WORK FOR THIS PROJECT. THE CONTRACTOR SHALL CONDUCT SITE VISITS AND SHALL EXAMINE ALL OF THE INFORMATION WITHIN THESE DOCUMENTS. ALL DISCREPANCIES AND/OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID SUBMITTAL.
19. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
20. THE CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO COMMENCEMENT OF ANY WORK. ACTUAL REMOVAL AND/OR RELOCATION OF ALL EXISTING PLANTS IS TO BE CONDUCTED BY THE LANDSCAPE CONTRACTOR. IT IS THE RESPONSIBILITY OF THE SITEWORK CONTRACTOR TO COORDINATE DEMOLITION ACTIVITIES WITH THE LANDSCAPE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND PRESERVING TREES AS INDICATED BY THE OWNER.
21. CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITY TO THAT AREA DELINEATED IN THE DRAWING. ALL OTHER EXIST. UTILITIES INCLUDING : STORM DRAINAGE, GAS, ELECTRIC, TELEPHONE, WATER & SEWER SHALL BE PRESERVED & PROTECTED.
22. A SEPARATE DEMOLITION PERMIT IS REQUIRED FOR THE DEMOLITION OF THE ACTUAL BUILDING.
23. ALL EXISTING LIGHT POLES ON SITE TO BE REMOVED AND REPLACED PER SHEET LP-1.
24. CONTRACTOR MAY LIMIT SAW-CUT & PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THIS SHEET BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, SIDEWALK, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IT'S REMOVAL AND REPAIR.

LANDSCAPING NOTE

SEE LANDSCAPE PLAN FOR PROTECTION AND REMOVAL OF EXISTING VEGETATION.

DEMOLITION LEGEND

- ASPHALT TO BE SAW CUT AND REMOVED
- CONCRETE TO BE SAW-CUT AND REMOVED
- CONTRACTOR TO PROTECT AND SAVE
- X REMOVE/RELOCATE EXISTING TREE (RE: TO LANDSCAPE PLANS)

McDONALD'S PROJECT CODE: 009-2618

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No.	Date	Revision	By

Designed by:	C.O.B.
Drawn by:	P.W.R.
Checked by:	B.P.C.
Approved by:	W.P.O.
Scale:	1"=20'
Date:	12-15-15
Job No.:	M29955

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SITE DEMOLITION PLAN
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CITY OF GAINESVILLE / FLORIDA

Sheet No.
C-5

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CITY OF GAINESVILLE ROW NOTES

CITY RIGHT-OF-WAY:
"THE METHOD AND MANNER OF PERFORMING THE WORK AND THE QUALITIES OF MATERIAL FOR CONSTRUCTION WITHIN THE ROW SHALL CONFORM TO THE REQUIREMENTS SPECIFIED BY THE PUBLIC WORKS DEPARTMENT."

"NO WORK SHALL BE DONE NOR MATERIALS USED IN THE ROW, WITHOUT INSPECTION BY THE PUBLIC WORKS DEPARTMENT (334-5070), AND THE CONTRACTOR/DEVELOPER SHALL FURNISH THE DEPARTMENT WITH EVERY REASONABLE FACILITY FOR ASCERTAINING WHETHER THE WORK PERFORMED AND MATERIALS USED ARE IN ACCORDANCE WITH THE REQUIREMENTS AND INTENT OF THE PLANS AND SPECIFICATIONS."

"THE PUBLIC WORKS DEPARTMENT RESERVES THE RIGHT TO MODIFY THE PROPOSED WORK WITHIN THE ROW TO ENSURE COMPATIBILITY WITH EXISTING IMPROVEMENTS. SUCH MODIFICATION COSTS SHALL BE BORNE BY THE DEVELOPER."

STATE RIGHT-OF-WAY
"THE METHOD AND MANNER OF PERFORMING THE WORK AND THE QUALITIES OF MATERIAL FOR CONSTRUCTION WITHIN THE ROW SHALL CONFORM TO THE REQUIREMENTS SPECIFIED BY THE PUBLIC WORKS DEPARTMENT AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT)."

NO WORK SHALL BE DONE NOR MATERIALS USED IN THE CITY AND STATE ROW, WITHOUT INSPECTION BY THE PUBLIC WORKS DEPARTMENT (334-5070), AND FDOT RESPECTIVELY, AND THE CONTRACTOR/DEVELOPER SHALL FURNISH EACH DEPARTMENT WITH EVERY REASONABLE FACILITY FOR ASCERTAINING WHETHER THE WORK PERFORMED AND MATERIALS USED ARE IN ACCORDANCE WITH THE REQUIREMENTS AND INTENT OF THE PLANS AND SPECIFICATIONS."

TRAFFIC INFORMATION

REFERENCE: ITE-TGM 9TH EDITION

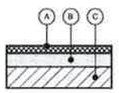
LAND USE: ITE CATEGORY 934 (FAST FOOD RESTAURANT WITH DRIVE THROUGH WINDOW)

INDEPENDENT VARIABLE: SEATS (94)

METHOD: AVERAGE RATE

GROSS TRIPS: (SEE TABLE BELOW)

TIME PERIOD	ENTRY	EXIT	TOTAL
AM PEAK	63	56	119
PM PEAK	47	42	89
DAILY AVG. (WEEKDAY)	918	917	1835

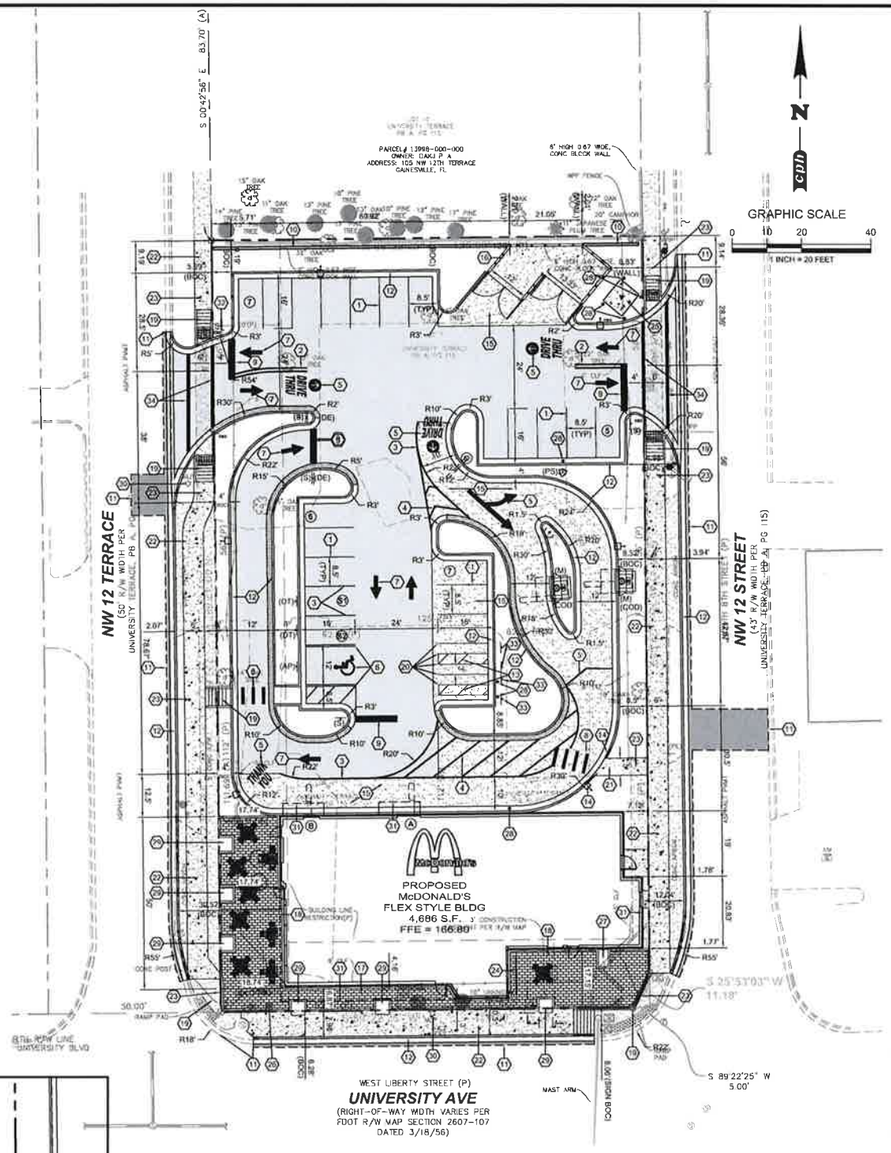


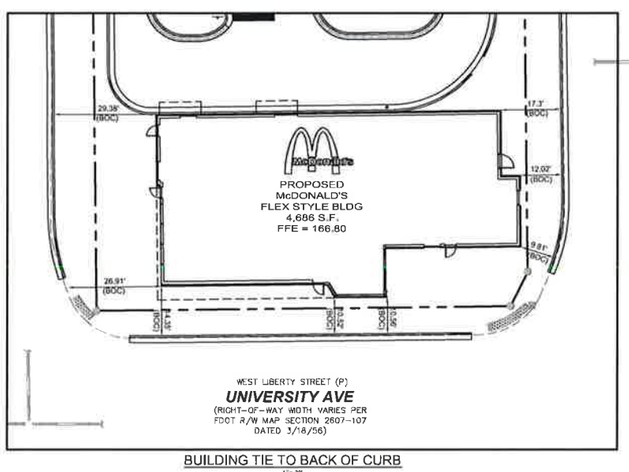
(A) 2" SP 12.5 TRAFFIC LEVEL C SUPERPAVE

(B) 8" LIMEROCK BASE COURSE COMPACTED TO 100% MODIFIED PROCTOR TEST MAXIMUM DRY DENSITY, LBR 100 MIN.

(C) 12" STABILIZED SUB-BASE COURSE COMPACTED TO 98% MODIFIED PROCTOR TEST MAXIMUM DRY DENSITY, LBR 40 MIN.

CITY ROW PAVEMENT DESIGN





BUILDING TIE TO BACK OF CURB
1" = 20'

NOTE:

ANY CONSTRUCTION IN THE CITY OF GAINESVILLE PUBLIC ROW WILL REQUIRE PERMITS FROM THE PUBLIC WORKS DEPARTMENT PRIOR TO BEGINNING WORK. A MOT PERMIT IS REQUIRED FOR ANY ACTIVITY IN THE ROW THE EITHER DIRECTLY OR INDIRECTLY AFFECTS VEHICULAR OR PEDESTRIAN TRAFFIC. OBTAINING ANY OTHER PERMITS THROUGH THE CITY DOES NOT ALLEVIATE THE REQUIREMENT FOR OTHER APPLICABLE PERMITS INCLUDING BUT NOT LIMITED TO ROW USE PERMITS, MOT PERMITS DRIVEWAY PERMITS ETC. IF THE OBSTRUCTION IS WITHIN OR UPON THE RIGHT-OF-WAY, OR OVER AND UPON PUBLIC INFRASTRUCTURE, OR IF ANY EXCAVATION IS MADE WITHIN THE RIGHT-OF-WAY, THEN THE APPLICANT SHALL POST A CASH DEPOSIT WITH THE FINANCE DIRECTOR OR, SURETY BOND OR LETTER OF CREDIT IN FAVOR OF THE CITY, AND AGREE TO RESTORE THE RIGHT-OF-WAY TO THE SAME OR BETTER CONDITION THAT EXISTED WHEN THE PERMIT WAS ISSUED, AND TO PAY FOR ANY DAMAGE TO PUBLIC PROPERTY AND/OR FOR TRASH AND DEBRIS REMOVAL TO BE PERFORMED BY THE APPLICANT. PER THE CITY OF GAINESVILLE DESIGN AND CONSTRUCTION MANUAL (CURRENT EDITION) CHAPTERS 3 AND 9 AND CHAPTER 23-37 AND 23-38 OF THE ORDINANCES OF THE CITY OF GAINESVILLE - PERMIT REQUIREMENTS APPLICATION IS AVAILABLE ON THE PUBLIC WORKS WEB PAGE.

NOTE:

ALL WORK WITHIN OR ON CITY OWNED OR MAINTAINED FACILITIES, ROW OR EASEMENT WILL REQUIRE AS-BUILT PLANS. AS-BUILT PLANS SHOULD SHOW THE CONSTRUCTED CONDITIONS OF THE CITY OWNED OR MAINTAINED AREA AND BE PERFORMED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER. REQUIREMENTS FURTHER DESCRIBED AS PER THE CITY OF GAINESVILLE DESIGN AND CONSTRUCTION MANUAL (CURRENT EDITION) SECTION 8.3.

SITE LEGEND

- = PROPOSED DRIVE-THRU GATEWAY BAR
- = McDONALD'S DIRECTIONAL SIGN
- (M) = PROPOSED MENU BOARD
- (COD) = PROPOSED CUSTOMER ORDER DISPLAY SPEAKER
- = PROPOSED DETECTOR LOOP
- (PS) = PRE-SELL BOARD
- = PROPOSED LIGHT FIXTURE
- = PROPOSED ONSITE ASPHALT PAVEMENT
- = PROPOSED CITY ROW ASPHALT PAVEMENT (SEE SPECIFICATIONS THIS SHEET)
- = PROPOSED CONCRETE SIDEWALK
- = PROPOSED HEAVY DUTY CONCRETE PAVEMENT
- SYSL/6" = SINGLE YELLOW SOLID LINE / 6" WIDE
- SYSL/4" = SINGLE YELLOW SOLID LINE / 4" WIDE
- SWSL/4" = SINGLE WHITE SOLID LINE / 4" WIDE
- DYSL/4" = DOUBLE YELLOW SOLID LINE / 4" WIDE
- (A) = PROPOSED ORDER WINDOW
- (B) = PROPOSED PRESENTER WINDOW
- (X) = PROPOSED PARKING COUNT
- (B) = PROPOSED RESERVED DRIVE-THRU PARKING SPACE
- (AP) = ACCESSIBLE PARKING SIGN (FTP-25)
- (DE) = DO NOT ENTER SIGN (R5-1)
- (S) = STOP SIGN (R1-1)
- (RT) = RIGHT TURN ONLY SIGN (R3-5R)
- (NL) = NO LEFT TURN SIGN (R3-2)
- (DT) = RESERVED DRIVE-THRU PARKING SIGN

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SITE DATA

STATEMENT OF INTENT:
THE OWNER PROPOSES TO CONSTRUCT A NEW 4,686 S.F. McDONALD'S DRIVE-THRU RESTAURANT AND THE REQUIRED SITE SUPPORT ELEMENTS TO SERVE IT.

SITE ADDRESS: 1206 W. UNIVERSITY AVENUE

PARCEL I.D. NUMBER: 13996-000-000

SITE TOTAL AREA: 27,945 S.F. (0.64 AC. ±)

EXISTING LAND USE: UMU-2

PROPOSED LAND USE: UMUH

EXISTING USE: VACANT

PROPOSED USE: FAST FOOD

BUILDING HEIGHT: 18'-0"

TOTAL BUILDING AREA: 4,686 S.F.

PROPOSED AREA CALCULATIONS

BUILDING AREA:	4,686 S.F.	(17%)
PERVIOUS AREA:	5,157 S.F.	(18%)
IMPERVIOUS AREA:	18,102 S.F.	(66%)
TOTAL:	27,945 S.F.	(100%)

BUILDING SETBACKS

	REQUIRED	PROVIDED TO P/L	PROVIDED TO BOC
NORTH:	0'	156.84'	N/A
WEST:	5'	17.74'	30.52'
EAST:	9'	1.77'	12.04'
SOUTH:	10'	3'	10.31'

LANDSCAPE SETBACKS

	REQUIRED	PROVIDED
NORTH:	5'	9.08'
WEST:	5'	10.0'
EAST:	9'	10.50'
SOUTH:	STREET TREES OR 5'	4'x4' TREE CUT-OUTS

SIDEWALK ZONE

	REQUIRED	PROVIDED
NORTH:	N/A	NONE
WEST:	6'	6'
EAST:	6'	6'
SOUTH:	5'	

EXISTING ZONING:

SUBJECT SITE:	UMU-2
NORTH:	RH-1
EAST:	NW 12TH STREET
SOUTH:	W. UNIVERSITY AVENUE
WEST:	NW 12TH TERRACE

PROPOSED ZONING:

SUBJECT SITE:	PD
NORTH:	T-4 (M1)
EAST:	NW 12TH STREET
SOUTH:	W. UNIVERSITY AVENUE
WEST:	NW 12TH TERRACE

FLOOD ZONE:
THE ABOVE DESCRIBED PROPERTY APPEARS TO BE IN ZONE X, IN ACCORDANCE WITH THE FIRM MAP OF ALACHUA COUNTY, COMMUNITY PANEL NUMBER 125107-0314-D. MAP REVISED JUNE 16, 2006.

BUILDING DATA:

OCCUPANCY:	USE GROUP A2
CONSTRUCTION TYPE:	VB
SPRINKLED:	YES
NUMBER OF STORIES:	1
BUILDING HEIGHT:	18'-0" (MAIN BLDG. PARAPET)
GROSS BUILDING AREA:	4,686 GROSS S.F.

* THIS SITE AND BUILDING COMPLIES WITH THE FLORIDA BUILDING CODE AND ALL REFERENCED STANDARDS

KEYNOTES LEGEND

1. PROPOSED SWSL / 4" (TYP).
2. PROPOSED DYSL / 4" (LINES TO BE EXTENDED FROM THE STOP BAR)
3. PROPOSED SYSL / 6" (TYP).
4. PROPOSED SYSL/4", 2' O.C. @ 45° BOUNDED BY SYSL/4".
5. PROPOSED DRIVE THRU STRIPING PER McDONALD'S SPECIFICATIONS.
6. PROPOSED ACCESSIBLE STRIPING. SEE DETAIL SHEET C-10. CONTRACTOR TO ENSURE 2% MAX. SLOPE IN ALL DIRECTIONS.
7. PROPOSED ARROW STRIPING PER DETAILS, SHEET C-11.
8. PROPOSED CROSSWALK STRIPING, SEE DETAIL SHEET C-10.
9. PROPOSED 24" WIDE WHITE PAINT STOP BAR ON PAVEMENT PER FDOT INDEX #17346.
10. PROPOSED 6' PANEL WALL WITH 2' SHADOW BOX FENCE ON TOP, SEE DETAIL SHEET C-10.
11. NEATLY SAW CUT AND CONSTRUCT SMOOTH TRANSITION TO EXISTING CURB AND PAVEMENT.
12. PROPOSED CURB & GUTTER (STANDARD CURB SHOWN SHADED), SEE DETAIL SHEET C-10.
13. PROPOSED SWSL/4", 2' O.C. @ 45° BOUNDED BY SWSL/4".
14. PROPOSED NOSE DOWN CURB.
15. PROPOSED HEAVY DUTY CONCRETE PAVEMENT.
16. PROPOSED TRASH CORRAL, SEE ARCHITECT PLANS FOR DETAILS.
17. PROPOSED CONCRETE PAVERS PER McDONALD'S SPECIFICATIONS BOUNDED BY 6" RIBBON CURB. SIDEWALK TO BE 5% MAX. LONGITUDINAL SLOPE, 2% MAX. CROSS SLOPE.
18. PROPOSED PATIO AREA: CONCRETE PAVERS PER McDONALD'S SPECIFICATIONS BOUNDED BY 6" RIBBON CURB. AREA TO BE 2% MAX CROSS SLOPE IN ALL DIRECTIONS.
19. PROPOSED ACCESSIBLE RAMP 1:12 MAX SLOPE, PER FDOT INDEX #304. SEE DETAIL, SHEET C-10.
20. PROPOSED MOTORCYCLE PARKING SPACES.
21. PROPOSED SERVICE / DELIVERY RAMP
22. PROPOSED CONCRETE SIDEWALK, 5% MAX. LONGITUDINAL SLOPE, 2% MAX. CROSS SLOPE.
23. PROPOSED 5' X 5' MIN. CONCRETE SIDEWALK LANDING PER FDOT INDEX #310, 2% MAX. SLOPE IN ALL DIRECTIONS.
24. PROPOSED BIKE RACK, SEE DETAIL SHEET C-11.
25. PROPOSED TRANSFORMER CONCRETE PAD.
26. PROPOSED FLAG POLE PER McDONALD'S SPECIFICATIONS.
27. PROPOSED MONUMENT SIGN.
28. PROPOSED BOLLARD, SEE DETAIL SHEET
29. PROPOSED 4'x4' LANDSCAPE CUT OUT
30. EXISTING LIGHT POLE TO REMAIN
31. PROPOSED ROOF LINE INCLUDING CANOPY
32. PROPOSED 30" STOP SIGN (R1-1) WITH NO OUTLET SIGN WITH RIGHT ARROW (W14-2aR)
33. PROPOSED "MOTORCYCLE PARKING ONLY" SIGN PER CITY STANDARDS
34. PROPOSED CROSSWALK STRIPING PER FDOT INDEX NO. 17346

GENERAL NOTES

1. McDONALD'S ROAD SIGN AND BASE ARE BY THE SIGN CONTRACTOR. CONDUIT AND WIRING ARE BY THE GENERAL CONTRACTOR.
2. BASES, ANCHOR BOLTS, CONDUIT, AND WIRING FOR ALL OTHER SIGNS ARE BY THE GENERAL CONTRACTOR.
3. 3/4" EMPTY CONDUIT TO LOCATIONS SHOWN AT THE LOT PERIMETER FOR LOT LIGHTING IS BY THE GENERAL CONTRACTOR. LIGHTING FIXTURES, BASES, POLES, CONDUIT, AND WIRING ARE BY THE OWNER/OPERATOR.
4. BASES FOR FLAGPOLES ARE BY THE GENERAL CONTRACTOR. ANCHOR BOLTS ARE BY THE FLAGPOLE SUPPLIER.
5. PROPOSED UTILITIES ARE SHOWN IN SCHEMATIC ONLY. EXACT LOCATIONS SHALL BE DETERMINED TO ALLOW FOR THE MOST ECONOMICAL INSTALLATION.
6. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO DETERMINE EXACT POINT OF SERVICE CONNECTION AT EXISTING UTILITY. REFER TO THE BUILDING ELECTRICAL AND PLUMBING DRAWINGS FOR UTILITY SERVICE ENTRANCE LOCATIONS, SIZES, AND CIRCUITING.
7. ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR AT GROUNDBREAK.
8. FINISH WALK AND CURB ELEVATIONS SHALL BE 6" ABOVE FINISH PAVEMENT.
9. ALL LANDSCAPE AREAS SHALL BE ROUGH GRADED TO 6" BELOW TOP OF ALL WALKS AND CURBS, FINISH GRADING, LANDSCAPING, AND SPRINKLER SYSTEMS ARE BY THE OWNER/OPERATOR.
10. LOT LIGHTING CONCRETE FOOTINGS TO CONFORM WITH THE SOILS REPORT RECOMMENDATIONS FOR THIS PARTICULAR SITE.
11. SEE SHEET C-11 FOR ALL McDONALD'S DETAILS.
12. FLAGPOLE TO BE LIGHTED AT NIGHT.
13. DIMENSIONS SHOWN ARE TO THE FACE OF CURB UNLESS SHOWN (BOC) WHICH INDICATES BACK OF CURB.
14. ALL CURBED RADII ARE TO BE 10' AND 3' UNLESS OTHERWISE NOTED.
15. ALL SIGNS SHALL HAVE A 7'0" MIN. CLEARANCE FROM FINISH GRADE TO BOTTOM OF LOWEST SIGN MOUNTED ON POST.
16. ALL STRIPING SHALL BE IN CONFORMANCE WITH LOCAL AGENCY REQUIREMENTS.
17. ADJUST ALL MANHOLE RINGS, VALVE COVERS, AND CLEAN OUT COVERS TO BE FLUSH WITH FINISHED GRADE. ALL PARTS TO BE TRAFFIC BEARING (AASHTO H-20 LOADING).
18. ENSURE ACCESSIBILITY STICKERS ARE PLACED ON ALL APPLICABLE DOORS.
19. ENSURE SPEECH/HEARING IMPAIRED SIGNAGE IS PROVIDED AT COD, CASHIER WINDOW & PRESENTER WINDOW.
20. TRANSITIONS TO BE FLUSH ALL ALONG THE ACCESSIBLE ROUTE. CONTRACTOR SHALL ENSURE THE MAXIMUM CONSTRUCTED LEVEL TRANSITION AT EVERY JOINT DOES NOT EXCEED THE MAXIMUM ALLOWABLE UNDER THE ADA AFTER SETTLEMENT, EXPANSION, CONTRACTION, ETC. CHANGES IN LEVEL OF 1/4" HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL. CHANGES IN LEVEL BETWEEN 1/4" HIGH MINIMUM AND 1/2" HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.
21. FILL EXPANSION / CONTROL JOINT WITH EXTERIOR GRADE CONCRETE EXPANSION JOINT CAULKING. FILL ENTIRE LENGTH OF JOINT SUCH THAT ANY CHANGE IN ELEVATION DOES NOT EXCEED 1/4" IN ELEVATION FROM THE ADJACENT CONCRETE SURFACES WHEN CAULKING HAS CURED. FOR JOINTS WITH VOIDS DEEPER THAN 1/2", INSTALL CONTINUOUS FIBERBOARD EXPANSION JOINT FILLER BELOW CAULKING TO SUPPORT CAULKING ABOVE.

PAVING SPECIFICATION

(MINIMUM 2" TOTAL COMPACTED ASPHALT THICKNESS)

THE GENERAL CONTRACTOR SHALL PROVIDE MCDONALD'S WITH STRUCTURALLY AND COSMETICALLY SOUND DRIVEWAY AND PARKING AREAS ACCORDING TO THE FOLLOWING SPECIFICATIONS. ALL SUB-BASE SOIL, FILL AND BACK-FILL AREAS SHALL BE COMPACTED IN ACCORDANCE WITH THE SOILS REPORT. THE BASE MATERIAL SHALL CONSIST OF 6" MINIMUM COMPACTED THICKNESS CRUSHED LIMEROCK (FDOT APPROVED WITH LBR = 100) PLACED AND COMPACTED TO 98% OF THE MAXIMUM MODIFIED PROCTOR DRY DENSITY (ASTM D-1557/AASHTO T-180). ALTERNATE BASE MATERIALS MAY BE USED BASED UPON RECOMMENDATIONS OF THE SOILS ENGINEER AND APPROVAL OF THE MCDONALD'S PROJECT MANAGER. ALL ASPHALT SHALL BE FDOT SP-9.5 MINIMUM COMPACTED THICKNESS OF (2"). ALL TESTING SHALL BE DONE BY A COMPANY APPROVED BY THE MCDONALD'S PROJECT MANAGER. SAID COMPANY SHALL BE DIRECTLY RESPONSIBLE TO AND SHALL CONSIDER MCDONALD'S AS ITS ONLY CLIENT FOR THIS PROJECT. THE LOCATIONS OF ALL TESTS SHALL BE SELECTED BY THE MCDONALD'S PROJECT MANAGER. THE SUB-BASE SHALL BE TESTED IN FOUR (4) LOCATIONS FOR BEARING VALUE AND COMPACTION. THE BASE SHALL BE TESTED IN FOUR (4) LOCATIONS FOR THICKNESS AND COMPACTION. THE ASPHALT SHALL BE TESTED IN FOUR (4) LOCATIONS FOR THICKNESS, TYPE AND STABILITY. ALL THE TESTING FOR EACH PRECEDING MATERIAL MUST BE SATISFACTORY BEFORE EACH SUCCESSIVE MATERIAL IS INSTALLED. MCDONALD'S SHALL BE NOTIFIED OF THE TEST RESULTS OF ALL TESTS AND RE-TESTS. WHEN A TEST FAILS OR WHEN, IN THE OPINION OF THE MCDONALD'S PROJECT MGR. AND/OR CONSTRUCTION MGR., THE INSTALLATION IS UNSATISFACTORY, REMEDIAL TESTING AND/OR REMEDIAL CORRECTIVE MEASURES SHALL BE DONE AT THE GENERAL CONTRACTOR'S EXPENSE AND SHALL BE INCLUDED IN HIS/HER C.S.S.

NOTE: McDONALD'S ENGINEER RESERVES THE RIGHT TO REQUEST A COMPACTION TEST AND/OR A CORE SAMPLE. IF TESTS PROVE CORRECT, PER ABOVE SPECIFICATION, TESTS WILL BE AT THE EXPENSE OF McDONALD'S, OTHERWISE, G.C. WILL BE CHARGED.

PARKING INFORMATION

MAXIMUM PARKING:
AUTOMOBILE SPACES
1 PARKING SPACE PER 200 SF GFA
4,686 / 200 = 23 PARKING SPACES

BICYCLE SPACES
1 SPACE PER 2,000 SF GFA
4,686 / 2,000 = 2 BICYCLE SPACES

MOTORCYCLE SPACES
1 SPACE PER 40 VEHICLE SPACES
21 / 40 = 1 MOTORCYCLE SPACE

	MIN. NO. REQUIRED	PROPOSED PARKING	MAX. NO. ALLOWED
AUTOMOBILES	0	21	23
MOTORCYCLES	1	4	N/A
BICYCLES	2	13	N/A

TOTAL SPACES PROVIDED **25**

- 20 PROPOSED SPACES: 8.5' X 18' STANDARD @ 90°
- 1 PROPOSED SPACES: 12' X 18' ACCESSIBLE @ 90°
- 4 PROPOSED SPACES: 3' X 18' MOTORCYCLE @ 90°

UTILITY INFORMATION

UTILITY	LOCATION
SANITARY SEWER	NW 12TH TERRACE
WATER	NW 12TH STREET
RECLAIM WATER	N/A
STORM SEWER	STORM MANHOLE UNIVERSITY AVENUE
ELECTRIC	UNDERGROUND NW 12TH STREET
GAS	NW 12TH TERRACE

SURVEY INFORMATION

PREPARED BY: CPH, INC.
500 WEST FULTON STREET
SANFORD, FLORIDA 32771
(407) 322-6841
ATTN.: PAUL J. KATREK, PSM
DATE: 4-10-15

McDONALD'S PROJECT CODE: 009-2618

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No.	Date	Revision	By

Designed by:	C.O.B.
Drawn by:	P.W.R.
Checked by:	B.P.C.
Approved by:	W.P.O.
Scale:	1"=20'
Date:	12-15-15
Job No.:	M29955

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SITE DIMENSION PLAN

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Sheet No.
C-6

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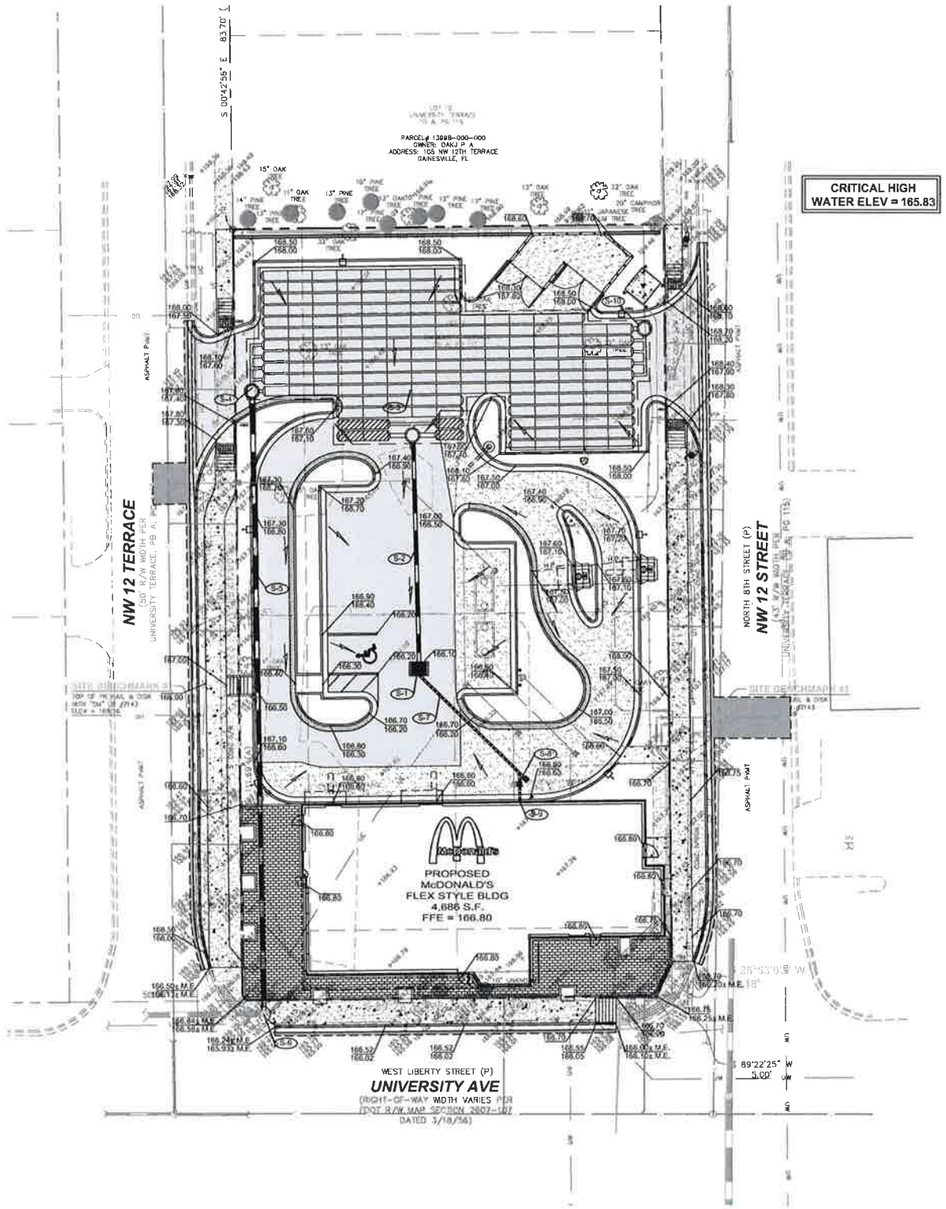
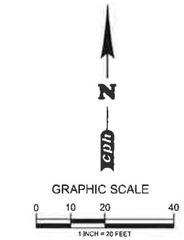
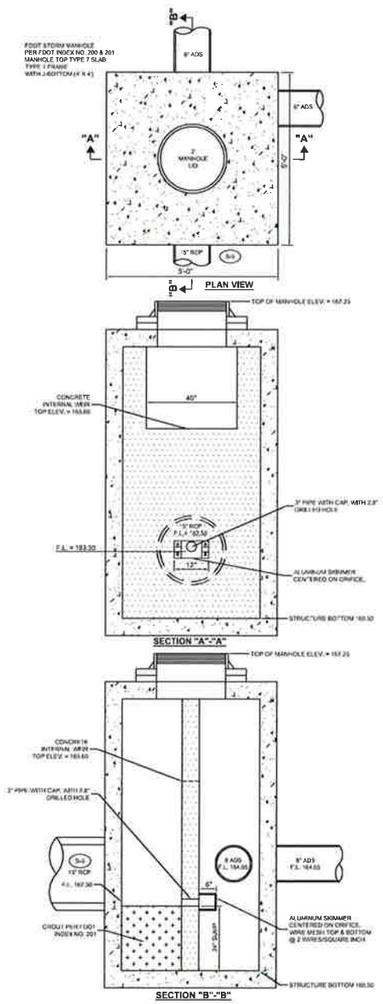
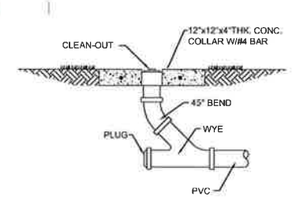






OUTFALL STRUCTURE (NO. S-4) DETAIL

NOTE: SEE GRADING PLAN FOR OUTFALL STRUCTURE LOCATION.



TYPICAL DOWNSPOUT CLEAN-OUT

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GENERAL GRADING NOTES

1. PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITY THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES SHOWN ON PLANS AND PROVIDED FOR IN FDOT INDEX NO. 102. AS CONSTRUCTION PROGRESSES, THE CONTRACTOR SHALL PERIODICALLY CHECK THE SEDIMENTATION CONTROLS AND REPAIR THEM AS NECESSARY TO KEEP THEM IN GOOD FUNCTIONING ORDER. THE CONTRACTOR SHALL ALSO PROTECT INLETS AND OTHER SITE APPURTENANCES FROM SEDIMENTATION USING PROTECTION AS DETAILED IN FDOT INDEX NO. 102.
2. THE CONTRACTOR SHALL CONDUCT GROUND STABILIZING MEASURES (PAVING, GRASSING, MULCHING AND SODDING) AS SOON AS PRACTICABLE FOLLOWING FINAL GRADING OF THE SITE.
3. FOLLOWING COMPLETION OF CONSTRUCTION AND COMPLETED STABILIZATION OF POTENTIAL EROSION AREAS, THE CONTRACTOR SHALL REMOVE SEDIMENTATION CONTROL MEASURES AND CLEAN AND REPAIR ANY AREAS AFFECTED BY THE CONSTRUCTION ACTIVITIES. ANY SILTATION IN THE STORMWATER SYSTEM SHALL BE COMPLETELY FLUSHED PRIOR TO CERTIFICATION OF COMPLETION.
4. ACCORDING TO THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NO. 125107-0314-D, EFFECTIVE DATE JUNE 16, 2006 THIS PROPERTY LIES IN ZONE "X".
5. THIS PROJECT IS PENDING APPROVAL BY ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
6. CONTRACTOR SHALL FIELD VERIFY EXISTING AND SURROUNDING DEVELOPMENT GRADES AND CONTACT ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO CONSTRUCTION.
7. CONTRACTOR SHALL VERIFY POSITIVE DRAINAGE FLOW AWAY FROM BLDG. AND THAT A MINIMUM SLOPE OF AT LEAST 1% IN THE DIRECTION OF DRAINAGE FLOW INDICATED CAN BE ACHIEVED.

PROPOSED STORM SYSTEM NOTES

1. ALL PIPES IN LEGEND SPECIFIED AS "STORM PIPE" SHALL BE SELECTED FROM THOSE LISTED IN GENERAL NOTES, STORM SEWER SYSTEMS, SHEET C-2A.
2. FOR INLET BOTTOMS SEE FDOT INDEX NO. 200.
3. FOR SUPPLEMENTAL DETAILS SEE FDOT INDEX NO. 201.
4. ALL DRAINAGE STRUCTURES, INCLUDING CLEAN-OUTS, SHALL BE INSTALLED WITH TRAFFIC BEARING GRATES, TOPS, RINGS AND COVERS, ETC. AS APPLICABLE.
5. ALL PROPOSED INLET GRATES SHALL BE H20 TRAFFIC BEARING RETICULINE STEEL.

LEGEND

PROP. SPOT ELEV. =	(T.C.)	TOP OF CURB
	(BOP)	BOTTOM OF CURB
DESIGN SPOT ELEV. =	(EOP)	EDGE OF PAVEMENT
EXIST. SPOT ELEV. =	M.E. (XX.XXx)	MATCH EXISTING PVMT./SIDEWALK
PROP. DRAINAGE FLOW DIRECTION =		
PROP. STORM PIPE =		
PROP. STORM INLET =		
STANDARD TYPE CURB & GUTTER =		
HIGH POINT=		H.P.
PROP. LIMITS OF UNDERGROUND STORAGE SYSTEM =		

OPERATION AND MAINTENANCE

1. THE STORE OWNER IS RESPONSIBLE FOR PROPER OPERATION AND MAINTENANCE OF THE UNDERGROUND DETENTION SYSTEM
2. THE UNDERGROUND DETENTION SYSTEM SHALL BE INSPECTED QUARTERLY.
3. IF MORE THAN 3 INCHES OF SILT AND/OR EXCESSIVE TRASH ARE OBSERVED THE SYSTEM SHALL BE CLEANED WITH A VACCUM TRUCK AND RESTORED TO IT'S ORIGINAL CAPACITY.

UNDERGROUND STORAGE CALCULATIONS

STORMTECH SC-310
AREA OF SYSTEM: 4,257 SF
NO. OF CHAMBERS: 158
VOIDS IN STONE: 40%
BASE OF STONE ELEVATION: 163.50

PROPOSED STORM SEWER SCHEDULE

S-1	TYPE "E" INLET PER FDOT INDEX No. 232 TOP ELEV. = 166.00 N. F.L. = 164.20 S. F.L. = 164.30
S-2	64' L.F. – 12"X18" ERCP STORM PIPE (OR APPROVED EQUAL) @ 0.3%
S-3	4' DIA. FDOT STORM MANHOLE PER FDOT INDEX No. 200, 201 RIM ELEV. = 167.25 E. F.L. = 164.08 S. F.L. = 164.00 N. F.L. = 164.29
S-4	OUTFALL STRUCTURE SEE DETAIL THIS SHEET
S-5	179' L.F. – 15" R.C.P. (OR APPROVED EQUAL) @ 0.22%
S-6	CORE BORE & CONNECT TO EXIST. CURB INLET @ F.L. 162.10 GROUT SEAL TO ENSURE WATERTIGHT CONNECTION
S-7	45 L.F. – 8" PVC DOWNSPOUT @ 0.50%
S-8	8" WYE W/CLEAN OUT F.L. @ 164.50
S-9	CONNECT TO PROPOSED DOWN SPOUT (REFER ARCHITECT PLANS FOR LOCATION)
S-10	4' DIA. FDOT STORM MANHOLE PER FDOT INDEX No. 200, 201 RIM ELEV. = 166.10 W. F.L. = 164.05 S. F.L. = 164.29

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No.	Date	Revision	By

Designed by:	C.O.B.
Drawn by:	P.W.R.
Checked by:	B.P.C.
Approved by:	W.P.O.
Scale:	1" = 20'
Date:	12-15-15
Job No.:	M29955

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Lndscp. Lic. No. LC0000296

GRADING & STORM DRAINAGE PLAN

McDonald's

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Sheet No.
C-7

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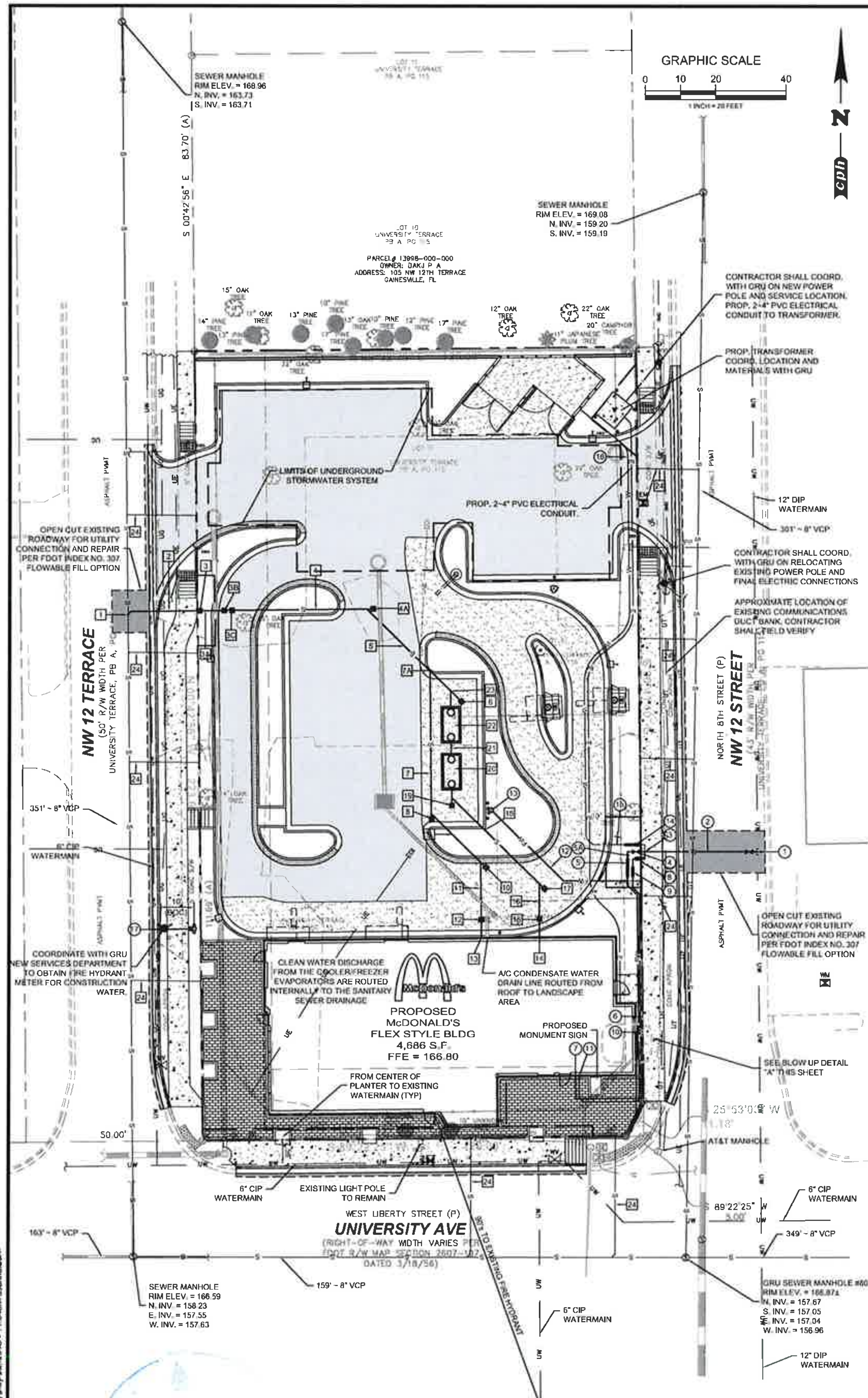

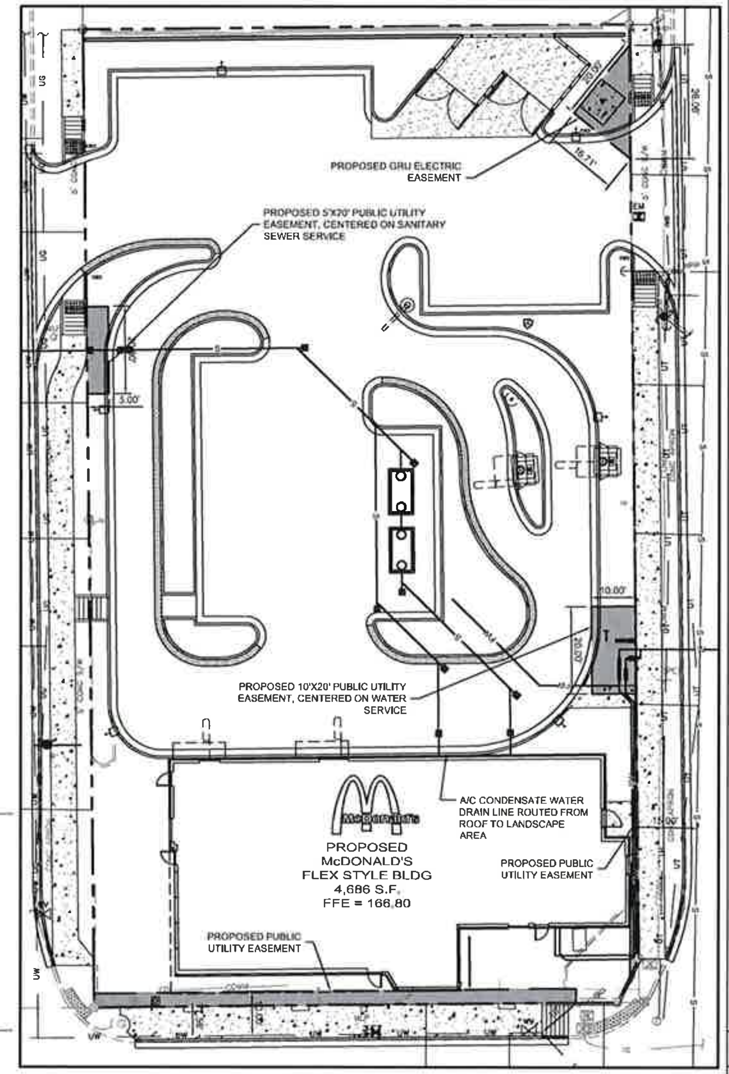

EASEMENT EXHIBIT

1"=20'

CONTRACTOR RESPONSIBILITIES:
CALL JOHN WORLEY AT 352-393-1633 AT LEAST 48 HOURS IN ADVANCE TO NOTIFY GRU WHEN WORK WILL BEGIN AT THE SITE. THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING ON-SITE WITH GRU INSPECTOR. CONTRACTOR SHALL COORDINATE WITH GRU W/WW SYSTEM INSPECTOR TO PERFORM WORK IN PROGRESS INSPECTIONS AT VARIOUS TIMES DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO, THE FOLLOWING ITEMS:

POTABLE WATER/RECLAIMED WATER:
1. INSPECTION OF CONNECTIONS TO EXISTING GRU INFRASTRUCTURE AND BACKFILL ON MAIN LINE.
2. VISUAL INSPECTION OF ALL MECHANICAL JOINT RESTRAINTS BEFORE BACKFILLING.
3. CONTRACTOR SHALL COORDINATE WITH GRU INSPECTOR PRIOR TO STERILIZATION AND PRESSURE TESTING.
4. COORDINATE WITH GRU WATER INSPECTOR AND MURPHREE WTP STAFF TO TAKE TWO WATER SAMPLES FOR BACTERIOLOGICAL TESTING ON TWO CONSECUTIVE DAYS.
5. COORDINATE WITH INSPECTOR TO ARRANGE A DATE AND TIME FOR "WALKTHROUGH" WITH WATER DEPARTMENT (NOTE: BEFORE WALKTHROUGH, ALL MAINS MUST BE FLUSHED, HYDRANTS PLUMB AND VALVE BOXES BROUGHT TO GRADE, AND SERVICES SHALL BE VERTICAL WITH CAPS OFF). A WRITTEN REPORT OF DISCREPANCIES (IF ANY) SHALL BE PREPARED BY THE WATER DEPARTMENT AND GIVEN TO THE INSPECTOR AND CONTRACTOR.
6. CONTRACTOR SHALL NOTIFY INSPECTOR WHEN DISCREPANCIES ARE REPAIRED SO THAT INSPECTOR MAY COORDINATE WITH WATER DEPARTMENT FOR RE-INSPECTION.
7. WHEN THE SYSTEM HAS PASSED INSPECTION, CONTRACTOR SHALL FURNISH RECORD DRAWINGS AND CERTIFIED COSTS. INSPECTOR SHALL THEN CLOSE-OUT JOB, AND A COMPLETION LETTER SHALL BE SENT BY GRU TO THE DEVELOPER, ENGINEER OF RECORD, AND CONTRACTOR.

WASTEWATER:
1. INSPECTION OF CONNECTIONS TO EXISTING GRU INFRASTRUCTURE AND BACKFILL (WITH TYPE A-3) ON MAIN LINE.
2. INSPECTION TO CONFIRM PROPER GRADE PER GRU STANDARDS AND DRAWINGS ON MAINLINE, WYES, AND LATERALS.
3. INSPECTION OF COMPLETED WASTEWATER SYSTEM, INCLUDING MANHOLE INVERTS.
4. COORDINATE WITH INSPECTOR TO ARRANGE FOR TV INSPECTION OF WASTEWATER SYSTEM (NOTE: PRIOR TO TV INSPECTION, LATERALS MUST BE FLUSHED, THE ENTIRE CIRCUMFERENCE OF MAINS JET CLEANED, AND ALL DEBRIS REMOVED). A WRITTEN REPORT OF ANY DISCREPANCIES FOUND SHALL BE PREPARED BY THE WASTEWATER DEPARTMENT AND PROVIDED TO THE GRU WASTEWATER INSPECTOR.
5. CONTRACTOR SHALL NOTIFY INSPECTOR WHEN DISCREPANCIES ARE REPAIRED SO THAT INSPECTOR MAYCOORDINATE WITH WASTEWATER DEPARTMENT FOR RE-INSPECTION.
6. WHEN THE SYSTEM HAS PASSED INSPECTION, CONTRACTOR SHALL FURNISH RECORD DRAWINGS AND CERTIFIED COSTS. INSPECTOR SHALL THEN CLOSE-OUT JOB, AND A COMPLETION LETTER SHALL BE SENT BY GRU TO THE DEVELOPER, ENGINEER OF RECORD, AND CONTRACTOR.

NOTE:
SUBMIT MANUFACTURER SHOP DRAWINGS FOR GREASE TRAPS TO GRU - BRETT STRICKLAND (352-494-3052) PRIOR TO ORDERING OR INSTALLING GREASE TRAPS.

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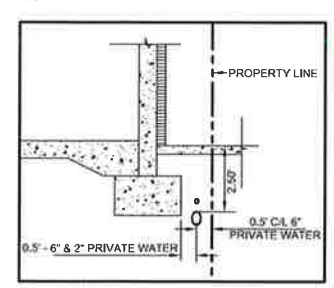

BLOW UP A

NTS

SANITARY SEWER LINE SCHEDULE

1	CONNECT TO EXISTING 8" GRAVITY SEWER @ INV. 161.00 PER GRU DETAIL WW-5.4. COORDINATE WITH GRU WATER INSPECTOR 48 HOURS IN ADVANCE
2	23 L.F. - 6" P.V.C. @ 2.00%
3	6" WYE W/ CLEAN OUT, INV. 161.46 - END GRU MAINTENANCE W/ TRAFFIC LOAD BEARING COVER PER GRU DETAIL WW-5.3
3A	6 L.F. - 6" P.V.C. @ 2.00%
3B	EXTENDABLE BACKWATER VALVE (CLEAN CHECK OR APPROVED EQUAL) INV. 161.58 W/ TRAFFIC LOAD BEARING COVER PER GRU DETAIL WW-5.3
3C	SEWER RELIEF VALVE (SEWER POPPER OR APPROVED EQUAL) INV. 161.60 W/ TRAFFIC LOAD BEARING COVER PER GRU DETAIL WW-5.3
4	39 L.F. - 6" P.V.C. @ 2.00%
4A	6" WYE W/ CLEAN OUT, INV. 162.38 W/ TRAFFIC LOAD BEARING COVER PER GRU DETAIL WW-5.3
5	37 L.F. - 6" P.V.C. @ 2.00%
6	6" WYE W/ CLEAN OUT, INV. 163.28 W/ TRAFFIC LOAD BEARING COVER PER GRU DETAIL WW-5.3
7	41 L.F. - 6" P.V.C. @ 2.00%
7A	6" WYE, INV. @ 163.12±
8	6" WYE W/ CLEAN OUT, INV. 163.94 W/ TRAFFIC LOAD BEARING COVER PER GRU DETAIL WW-5.3
9	21 L.F. - 6" P.V.C. @ 2.00
10	6" WYE W/ CLEAN OUT, INV. 164.36 W/ TRAFFIC LOAD BEARING COVER PER GRU DETAIL WW-5.3
11	16 L.F. - 6" P.V.C. @ 2.00%
12	6" CLEAN-OUT INV. 164.68 (LOCATED 5' OUTSIDE OF BLDG, RE. ARCH. PLANS FOR CONTINUATION) W/ TRAFFIC LOAD BEARING COVER PER GRU DETAIL WW-5.3
13	SEWER LINE OUT CONNECTION POINT
14	GREASE LINE OUT CONNECTION POINT
15	6" CLEAN-OUT INV. 164.90 (LOCATED 5' OUTSIDE OF BLDG, RE. ARCH. PLANS FOR CONTINUATION) W/ TRAFFIC LOAD BEARING COVER PER GRU DETAIL WW-5.3
16	10 L.F. - 6" P.V.C. @ 2.00%
17	6" WYE W/ CLEAN OUT, INV. 164.70 W/ TRAFFIC LOAD BEARING COVER PER GRU DETAIL WW-5.3
18	38 L.F. - 6" P.V.C. @ 2.00%
19	6" WYE W/ CLEAN OUT, INV. 163.98 W/ TRAFFIC LOAD BEARING COVER PER GRU DETAIL WW-5.3
20	PROPOSED GREASE TRAP (1,250 GALLON MIN.) OUTFLOW INV. = 163.69 INFLOW INV. = 163.94
21	4 L.F. - 6" P.V.C. @ 2.00%
22	PROPOSED GREASE TRAP (1,250 GALLON MIN.) OUTFLOW INV. = 163.36 INFLOW INV. = 163.61
23	6" WYE, INV. @ 163.28±
24	EXISTING UNUSED SANITARY SEWER SERVICE LATERAL TO SITE MUST BE SEALED AT MAIN WITH A FIBERGLASS POINT REPAIR. LOCATIONS SHOWN BASED ON GIS INFORMATION PROVIDED BY GRU, CONTRACTOR SHALL FIELD VERIFY.

GRU STANDARD UTILITY NOTES

1. REQUIRED ASSOCIATED UTILITY PERMITS AS FOLLOWS:
   A. GRU GREASE TRAP/INTERCEPTOR PERMIT.
2. THE UTILITY PLAN AND PLAT SHOWS ALL PUBLIC UTILITY EASEMENTS (PUE'S) IN A METES AND BOUNDS FORMAT. UPON GRU'S APPROVAL OF PLANS FOR DEVELOPMENTS NOT BEING PLATTED, OWNER MAY CHOOSE TO GRANT THE METES AND BOUNDS EASEMENTS AS SHOWN, OR A BLANKET EASEMENT OVER THE ENTIRE PROPERTY, PROVIDED FACILITIES ARE INSTALLED WITHIN THE PRESCRIBED DISTANCES AS SHOWN ON THE UTILITY PLANS AND IN ACCORDANCE WITH THE UTILITY SEPARATION REQUIREMENTS TABLE IN APPENDIX C OF THE GRU W/WW/RCW DESIGN STANDARDS.
3. ALL CONSTRUCTION MATERIALS AND METHODS FOR POTABLE WATER, WASTEWATER, AND RECLAIMED WATER SYSTEMS SHALL CONFORM TO GRU'S MOST RECENT POTABLE WATER, WASTEWATER, & RECLAIMED WATER SYSTEM DESIGN STANDARDS AND APPROVED MATERIALS MANUAL.
4. POTABLE WATER AND WASTEWATER MAINS SHALL MAINTAIN A MINIMUM 10 FEET HORIZONTAL AND 1.5 FOOT VERTICAL SEPARATION.
5. A MINIMUM HORIZONTAL SEPARATION OF 10 FEET FOR POTABLE WATER MAINS, WASTEWATER FORCE MAINS, AND RECLAIMED WATER MAINS, AND 15 FEET FOR GRAVITY WASTEWATER MAINS SHALL BE PROVIDED AND MAINTAINED FROM TREES, BUILDINGS, TRANSFORMERS, AND ALL PERMANENT STRUCTURES. LIVE OAK TREES REQUIRE AN ADDITIONAL 5 FEET OF HORIZONTAL CLEARANCE. SERVICE LATERALS REQUIRE 5 FEET LESS CLEARANCE FOR EACH OF THE UTILITIES; NOTE THAT WATER SERVICE LATERALS SHALL BE INSTALLED WITHIN 3" SLEEVES. (SEE APPENDIX C OF GRU'S DESIGN STANDARDS AND CONSTRUCTION DETAILS FOR POTABLE WATER, WASTEWATER, AND RECLAIMED WATER - HORIZONTAL SEPARATION DISTANCES FOR PARALLEL AND PERPENDICULAR CLEARANCE FROM OTHER OBJECTS TABLE.)
6. POTABLE WATER SERVICES, REQUIRING A SEPARATE WATER METER, SHALL BE PROVIDED TO EACH LOT, BUILDING OR PARCEL. EFFECTIVE OCTOBER 1, 2007, FOR COMMERCIAL, MULTIFAMILY, AND INSTITUTIONAL DEVELOPMENTS, THE DEVELOPER SHALL BE RESPONSIBLE FOR INSTALLING POTABLE WATER SERVICES AND YOKE ASSEMBLY PACKAGE UP TO AND INCLUDING THE METER YOKE, BOX (INSTALLED AT FINAL GRADE) AND ASSOCIATED APPURTENANCES, FOR METERS 1" AND SMALLER (SEE GRU W/WW/RCW CONSTRUCTION DETAIL W - 8.0), WITH A ONE-YEAR WARRANTY.
7. 2" VALVES LOCATED IN PAVED AREAS, INCLUDING SIDEWALKS, SHALL BE GRU APPROVED CAST IRON, RESILIENT SEAT GATE VALVES WITH STANDARD 2" OPERATING NUT, THREADED WITH BRASS NIPPLE BETWEEN THE VALVES AND TAPPING SADDLE OR TAPPED TEE.
8. WATER MAINS 4" IN DIAMETER AND GREATER, PLACED UNDER ROADWAYS, SHALL BE CEMENT LINED DUCTILE IRON PIPE (CLDIP) EXTENDING 5 FEET PAST THE BACK OF CURB (3 FEET WITHIN CITY OF GAINESVILLE LIMITS). TRACER WIRE INSTALLED ON PVC WATER MAINS SHALL CONTINUE ACROSS THE CLDIP SECTIONS.
9. 1" OR 2" WATER SERVICE CROSSINGS LOCATED UNDER ROADWAYS SHALL BE ENCASED IN 3" SCH 40 PVC EXTENDING 5' PAST THE BACK OF CURB (3' INSIDE CITY OF GAINESVILLE LIMITS).
10. ANCHORING TEES, COUPLINGS, AND BENDS SHALL BE USED ON ALL FIRE HYDRANT ASSEMBLIES.
11. ALL PRESSURIZED MAIN FITTINGS SHALL BE MECHANICAL JOINT WITH RESTRAINED JOINT GLANDS; A SUFFICIENT LENGTH OF THE PIPE CONNECTED TO THE FITTINGS SHALL BE MECHANICALLY RESTRAINED TO PROVIDE REACTION AS SPECIFIED ON THE RESTRAINED JOINT STANDARD IN THE CONSTRUCTION DETAILS OF THE GRU STANDARDS (W - 2.8 & 2.9, RCW - 2.8 & 2.9, AND WW - 2.4 & 2.5). CALCULATIONS FOR REQUIRED RESTRAINT LENGTH MUST BE PROVIDED IF THE SPECIFIED RESTRAINT LENGTH, DUE TO SOIL TYPE OR DEPTH OF COVER, DIFFERS FROM THOSE PROVIDED ON THESE DETAILS.
12. ALL SANITARY WASTEWATER SERVICE LATERALS SHALL BE MIN. 4" DIAMETER PVC (SDR 35) AT 1.00% MIN. SLOPE UNLESS OTHERWISE LABELED.
13. WASTEWATER CLEANOUT COVERS LOCATED WITHIN PAVEMENT AND SIDEWALKS ADJACENT TO PAVED AREAS SHALL BE RATED FOR TRAFFIC LOAD BEARING. WASTEWATER CLEANOUT COVERS IN OTHER SIDEWALKS/WALKWAYS SHALL BE BRASS WITH A SQUARE RECESS.
14. MANHOLES WHICH ARE NOT INSTALLED UNDER PAVEMENT SHALL HAVE A RIM ELEVATION AT LEAST 6" ABOVE FINISHED GRADE, AND A 10:1 SLOPE TO FINISHED GRADE.
15. UNLESS OTHERWISE NOTED ON THE PLANS, THE FINISHED FLOOR ELEVATIONS OF BUILDINGS SHALL BE A MINIMUM OF 6" ABOVE THE LOWEST UPSTREAM MANHOLE TOP. IF THIS IS INFEASIBLE, A WASTEWATER SERVICE LATERAL BACKWATER VALVE (BWV) IS REQUIRED ON THE CUSTOMER SIDE OF THE CLEANOUT.
16. WHEN A POTABLE OR RECLAIMED WATER MAIN, OR A WASTEWATER FORCE MAIN IS ROUTED WITHIN 10 FT. OF AN ELECTRIC TRANSFORMER, A 20 FT. LENGTH OF DIP SHALL BE CENTERED ON THE TRANSFORMER WITH MECHANICAL RESTRAINT AT EACH END. NO FITTINGS OR VALVES SHALL OCCUR WITHIN 10 FT. OF THE NEAREST EDGE OF THE TRANSFORMER. A MINIMUM CLEARANCE OF 3' SHALL BE MAINTAINED BETWEEN THE MAIN AND THE TRANSFORMER.

GENERAL UTILITY NOTES

1. SEE COVER SHEET FOR A LIST OF UTILITY COMPANIES.
2. GENERAL CONTRACTOR IS TO COORDINATE WITH APPROPRIATE UTILITY COMPANIES PRIOR TO CONSTRUCTION, ADJUSTMENT OR RELOCATION OF EXISTING UTILITIES AS DESIGNATED ON PLANS.
3. THE CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITY INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
4. DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES. EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO NEW UTILITY LINES BEING INSTALLED.
5. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/ OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING UTILITY DURING CONSTRUCTION AT NO COST TO THE OWNER.
7. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, TELEPHONE AND GAS SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES, IN SUCH A MANNER AS TO AVOID CONFLICT AND ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH UTILITY REQUIREMENTS AS TO LOCATION AND SCHEDULING FOR TIE-INS/ CONNECTIONS PRIOR TO CONNECTING TO EXISTING UTILITIES.
8. THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN PAVED AREAS SHALL MATCH FINISHED GRADE. THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN GRASSED AREAS SHALL BE 4" ABOVE FINISHED GRADE (UNLESS NOTED OTHERWISE).
9. ALL MANHOLES CONSTRUCTED WITHIN PAVED AREAS SHALL BE INSTALLED WITH TRAFFIC BEARING RINGS AND COVERS.
10. ALL CLEAN-OUTS WITHIN THE PAVEMENT AREA SHALL BE INSTALLED WITH TRAFFIC BEARING PARTS AS APPLICABLE.
11. CONTRACTOR SHALL GROUT AROUND ALL PIPE ENTRANCES TO SANITARY SEWER MANHOLES WITH NON-SHRINKING GROUT TO ASSURE CONNECTION IS WATER TIGHT.
12. ALL CONCRETE FOR ENCASEMENT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I. AT 28 DAYS.
13. CONTRACTOR SHALL PROVIDE ALL APPURTENANCES SUCH AS CHECK VALVES, BACKFLOW PREVENTERS, ETC., AS REQUIRED BY GOVERNING AUTHORITIES.
14. ALL WATER, FORCE MAIN AND SANITARY SEWER LINES SHALL HAVE A MINIMUM OF 3' OF COVER. PE WATER SERVICE MAY BE REDUCED TO 2' WHEN NECESSARY.
15. CONTRACTOR SHALL COORDINATE INSPECTION ON ALL UTILITIES, WITH APPROPRIATE AUTHORITIES PRIOR TO COVERING TRENCHES DURING INSTALLATION.
16. CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND REQUIREMENTS.
17. THE CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY COMPANIES AND THE OWNER'S INSPECTING AUTHORITIES.
18. 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.
19. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS TO INCLUDE BUT NOT BE LIMITED, FOR ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
20. THE CONTRACTOR SHALL RECOGNIZE AND ABIDE BY ALL OSHA EXCAVATION SAFETY STANDARDS, INCLUDING THE FLORIDA TRENCH SAFETY ACT (90-96, LAWS OF FLORIDA). ANY MATERIAL, CONSTRUCTION METHODS, OR MATERIAL COST TO COMPLY WITH THESE LAWS SHALL BE INCIDENTAL TO THE CONTRACT.
21. ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
22. CONTRACTOR TO LOCATE LIGHT POLES AND FIXTURES AS INDICATED. CONTRACTOR TO BUILD NEW POLE BASE AND STUB CONDUIT AND WIRE AS NEEDED.
23. CONTRACTOR MUST STOP OPERATION AND NOTIFY THE OWNER FOR PROPER DIRECTION IF ANY ENVIRONMENTAL OR HEALTH RELATED CONTAMINATE IS ENCOUNTERED DURING EXCAVATION.
24. ALL WATER MAINS, FIRE WATER MAINS AND SERVICES SHALL BE TESTED, APPROVED AND DISINFECTED IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS PRIOR TO CONNECTION TO MUNICIPAL SYSTEM.
25. THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS SIX (6) FEET, OR MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER OVER SEWER LINE IS (12) INCHES.
26. CHAPTER 553.851 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATING.
27. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY PROVIDERS 48 HOURS PRIOR TO ANY UTILITIES CONSTRUCTION.
28. CONTRACTOR TO COORDINATE POWER POLE REMOVAL / RELOCATE WITH POWER COMPANY.
29. AIR CONDITIONING AND REFRIGERATION CONDENSATE WATER SHALL NOT FLOW TO THE SANITARY SEWER PER F.D.E.P.
30. AN IN-BUILDING PUBLIC SAFETY RADIO ENHANCEMENT SYSTEM SHALL BE PROVIDED IF NECESSARY TO COMPLY WITH NFPA 72-14.4.12 AND NFPA 72-24.5.2. STANDARDS.
31. THE CONTRACTOR WILL INSTALL A FIRE SAFETY PROGRAM TO ADDRESS ALL THE REQUIREMENTS SPECIFIED IN THE FLORIDA FIRE PREVENTION CODE, INCLUDING NFPA 241. THIS PROGRAM SHALL BE EFFECTIVE FOR THE DURATION OF ALL DEMOLITION, ALTERATION AND CONSTRUCTION OPERATIONS.

LEGEND

——S——	PROPOSED SEWER
——FM——	PROPOSED FORCEMAIN
——W——	PROPOSED WATER LINE
——FW——	PROPOSED FIRE WATER LINE
——FDC——	PROPOSED FDC WATER LINE
——E——	PROPOSED ELECTRIC SERVICE
——T——	PROPOSED TELEPHONE SERVICE

POTABLE WATER SCHEDULE

1	12"x6" TAP AND VALVE BY GRU. COORDINATE WITH GRU WATER INSPECTOR 7 DAYS IN ADVANCE. M.O.T., EXCAVATION, BACKFILL, AND RESTORATION BY CONTRACTOR.
2	PROPOSED 6" CLDIP MECHANICALLY RESTRAINED WATERMAIN PER GRU STANDARDS. COORDINATE WITH GRU WATER INSPECTOR 7 DAYS IN ADVANCE.
3	PROPOSED 6"x6"x2"x2" CLDIP TAPPED CROSS • 2-2"Ø x 6" LONG LOW-LEAD BRASS NIPPLES • 2-2" GATE VALVE AND BOX • 2-2" BRASS PACK JOINT COUPLING FOR PVC • 2-2" SCH. 80 PVC WATER SERVICE • 2-2" SCH. 80 PVC 90° BEND
4	PROPOSED 6" GATE VALVE - END GRU MAINTENANCE
5	PROPOSED 6" REDUCED PRESSURE BACKFLOW PREVENTER WITH DETECTOR AND FDC
5A	TEMPORARY 3" BLOW OFF AND SAMPLE POINT ON RISER
6	PROPOSED 6" DR-18 PVC C900 FIRE LINE
7	PROPOSED 6" FIRE LINE TO BUILDING SPRINKLER CONNECTION (REFER TO ARCH/MEP PLANS FOR DETAILS)
8	PROPOSED 1" DOMESTIC WATER METER AND TEMPORARY 2" BLOW OFF AND SAMPLE POINT
9	PROPOSED 1-1/2" REDUCED PRESSURE B.F.P.
10	PROPOSED 2" POLYETHYLENE WATER SERVICE LINE
11	PROPOSED 2" POLYETHYLENE LINE TO CONNECT TO BUILDING (REFER TO ARCHITECT PLANS)
12	PROPOSED 6" DR-18 PVC C900 FIRE LINE
13	PROPOSED 6" FDC WITH BOLLARDS (REFER TO ARCH/MEP PLANS FOR DETAILS)
14	PROPOSED 1" IRRIGATION METER W/ 1" REDUCED PRESSURE AND TEMPORARY 2" BLOW OFF AND SAMPLE POINT PER GRU STANDARDS
15	PROPOSED 1" TEE WITH 1" POLYETHYLENE STUB OUT FOR IRRIGATION AND 3/4" REDUCER FOR HOSE BIBB
16	PROPOSED 3/4" POLYETHYLENE LINE TO TERMINATE W/ HOSE BIBB
17	PROPOSED FIRE HYDRANT ASSEMBLY PER GRU STANDARDS. COORDINATE WITH GRU WATER INSPECTOR 7 DAYS IN ADVANCE

McDONALD'S PROJECT CODE: 009-2618

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WADE PRESTON OLSZEWSKI * LICENSE No. 54068 * STATE OF FLORIDA * PROFESSIONAL ENGINEER

No.	Date	Revision	By

Designed by:	C.O.B.
Drawn by:	P.W.R.
Checked by:	B.P.C.
Approved by:	W.P.O.
Scale:	1"=20'
Date:	12-15-15
Job No.:	M29955

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COMPOSITE UTILITY PLAN

McDonald's
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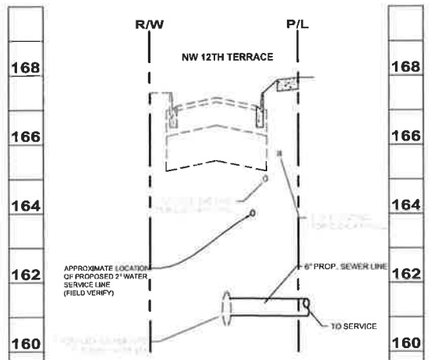
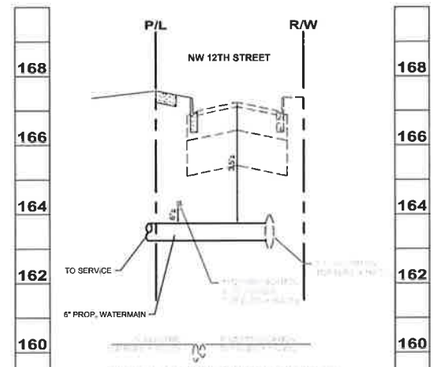
CITY OF GAINESVILLE / FLORIDA

Sheet No.
C-8



SEWER PROFILE

SCALE: HORIZ.: 1" = 20', VERT.: 1" = 2'



WATERMAIN PROFILE

SCALE: HORIZ.: 1" = 20', VERT.: 1" = 2'

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SECTIONS SHEET

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MACS RELO
CITY OF GAINESVILLE / FLORIDA

Sheet No.
C-9

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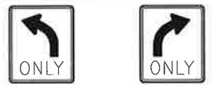


R3-5L 30" X 36" — LEFT TURN ONLY
R3-5R 30" X 36" — RIGHT TURN ONLY
N.T.S.

R3-2 24" X 24" — NO LEFT TURN
N.T.S.

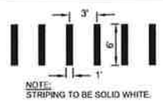
R3-1 24" X 24" — NO RIGHT TURN
N.T.S.

R1-1 30" X 30" — STOP SIGN
N.T.S.

R5-1 30" X 30"
STANDARD RED AND WHITE SIGN
DO NOT ENTER SIGN
N.T.S.

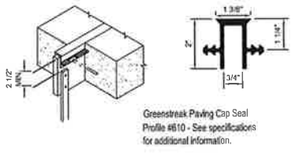
R1-2 — YIELD SIGN
N.T.S.

R6-2L 18" X 24" R6-2R 18" X 24"
ONE WAY SIGN DETAILS
N.T.S.



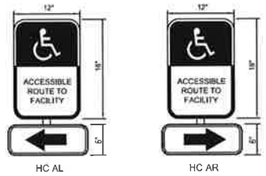
NOTE:
STRIPING TO BE SOLID WHITE.

CROSS WALK STRIPING DETAIL
N.T.S.



Greenstreak Paving Cap Seal Profile #610 - See specifications for additional information.

TYPICAL EXPANSION JOINT
N.T.S.



HC AL HC AR
TYPICAL ACCESSIBLE ROUTE SIGN
N.T.S.

NOTE:
SIGNS SIGNS SHALL BE IN ACCORDANCE WITH THE 2009 MUTCD WARNING SIGNS W11-2 (TOP) & W16-7P (BOTTOM) WITH A BLACK LEGEND ON A FLUORESCENT YELLOW-GREEN BACKGROUND

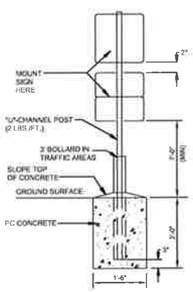
PEDESTRIAN CROSSING SIGN
N.T.S.

SIGNS USED AS PER FLORIDA STATUTES

FTP 25 PER FS 316.1955, FS 316.1957

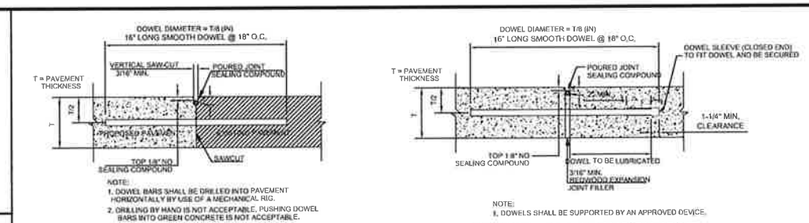
1. ALL LETTERS ARE 1" SERIES "C" PER MUTCD
2. TOP PORTION OF SIGN SHALL HAVE REFLECTORIZED (ENGINEERING GRADE) BLUE BACKGROUND WITH WHITE REFLECTORIZED LEGEND & BORDER.
3. BOTTOM PORTION OF SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) WHITE BACKGROUND WITH BLACK OPAQUE LEGEND & BORDER
4. FINE NOTIFICATION SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) WHITE BACKGROUND WITH BLACK OPAQUE LEGEND & BORDER
5. ONE (1) SIGN REQUIRED FOR EACH PARKING SPACE.
6. INSTALLATION HEIGHT OF LOWEST SIGN SHALL HAVE A MINIMUM OF 7'-0" CLEARANCE TO FINISH GRADE

ACCESSIBLE SIGN
N.T.S.



NOTE:
ALL SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LOCAL CODES AND AS SPECIFIED. MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

STANDARD SIGN BASE
N.T.S.

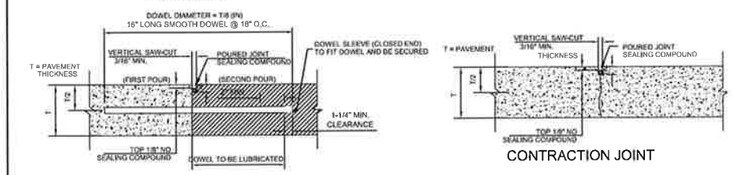


NOTE:
1. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG.
2. DRILLING BY HAND IS NOT ACCEPTABLE. PUSHING DOWEL BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE.

BUTT JOINT

NOTE:
1. DOWELS SHALL BE SUPPORTED BY AN APPROVED DEVICE.

TRANSVERSE EXPANSION JOINT



NOTE:
1. DOWELS SHALL BE SUPPORTED BY AN APPROVED DEVICE.

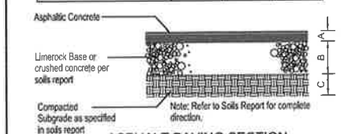
CONSTRUCTION JOINT

CONTRACTION JOINT

CONCRETE JOINT DETAILS
N.T.S.

DIMENSION & TYPE

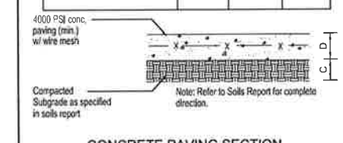
	A	B	C
Drive Aisle	2"	6"	12"
Parking	2"	6"	12"



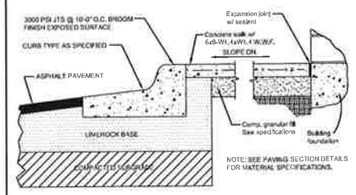
ASPHALT PAVING SECTION
N.T.S.

DIMENSION & TYPE

	C	D	
Concrete Section			
Loading/Dumpster	12"	6"	
Drive-thru	12"	6"	

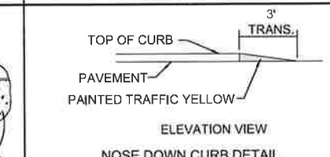


CONCRETE PAVING SECTION
N.T.S.



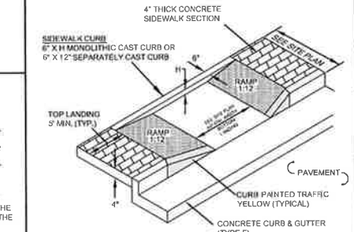
NOTE: SEE PAVING SECTION DETAILS FOR MATERIAL SPECIFICATIONS.

TYPICAL WALK SECTION
N.T.S.

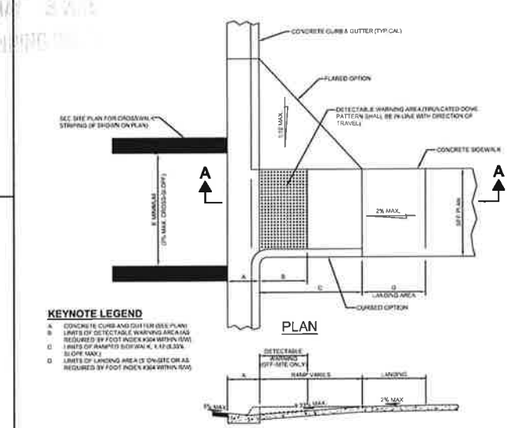


ELEVATION VIEW

NOSE DOWN CURB DETAIL
N.T.S.



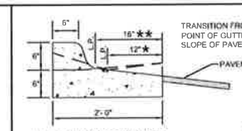
SIDEWALK ACCESSIBLE RAMP TYPE A
N.T.S.



KEYNOTE LEGEND
A. CONCRETE CURB AND GUTTER (SEE PLAN)
B. LIMITS OF DETECTABLE WARNING AREA (AS REQUIRED BY FDOT INDEX #304 WITHIN ISW)
C. LIMITS OF RAMP(S) SIDEWALK, 1:12 (8.33% SLOPE MAX.)
D. LIMITS OF LANDING AREA (5' ON-SITE OR AS REQUIRED BY FDOT INDEX #304 WITHIN ISW)

NOTES
1. DETECTABLE WARNING AREA (INCLUDING COLOR, TRUNCATED DOMES, SPECIFICATIONS, ETC.) SHALL BE IN ACCORDANCE WITH FDOT INDEX #304 LATEST EDITION.
2. ALL MATERIALS FOR TRUNCATED DOMES WITHIN THE FDOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE FDOT QUALIFIED PRODUCT LIST (QPL).
3. ACCEPTANCE CRITERIA FOR DETECTABLE WARNINGS:
(A) COLOR AND FEATURE SHALL BE COMPLETE AND UNIFORM.
(B) 90% OF THE INDIVIDUAL TRUNCATED DOMES SHALL BE IN ACCORDANCE WITH AMERICANS WITH DISABILITIES ACT STANDARDS FOR TRANSPORTATION FACILITIES, SECTION 705.
(C) THERE SHALL BE NO MORE THAN A NON-COMPLYING DOME IN ANY ONE SQUARE FOOT.
(D) NON-COMPLIANT DOMES SHALL NOT BE ADJACENT TO OTHER NON-COMPLIANT DOMES.
(E) SURFACES SHALL NOT DEVIATE MORE THAN 0.10" FROM A TRUE PLANE.

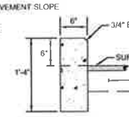
ACCESSIBLE RAMP DETAIL
N.T.S.



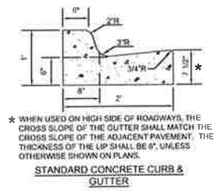
TRANSITION FROM LOW POINT OF GUTTER TO SLOPE OF PAVEMENT.
PAVEMENT SLOPE

★ FOR LOW POINT OF MIAMI CURB.
★★ FOR LOW POINT OF TYPE F CURB & GUTTER

SPILL TYPE CURB & GUTTER AT SLOPE OF PAVEMENT



VERTICAL CURB

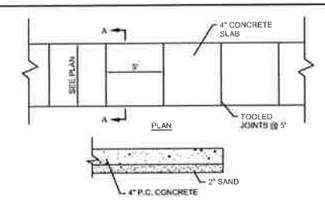


★ WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.

STANDARD CONCRETE CURB & GUTTER

GENERAL NOTES:
1. THE CONCRETE FOR CURBS SHALL BE DEPARTMENT OF TRANSPORTATION CLASS "I" CONCRETE, AND HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI.
2. ALL CURBS SHALL HAVE CONTRACTION JOINTS AND SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 10'-0" ON CENTERS FOR ALL CURBS.

CONCRETE CURB AND GUTTER DETAILS
N.T.S.

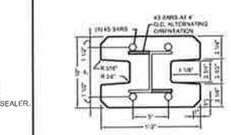


SECTION A-A
MINIMUM 3000 P.S.I. CONCRETE REQUIRED

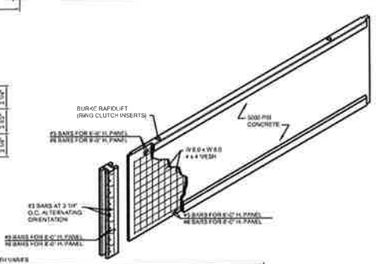
NOTES:
1. 3/4"x4" PREMOLDED EXPANSION MATERIALS AROUND P.P. OR OTHER STRUCTURES IN WALK.
2. EXPANSION JOINTS MAXIMUM DISTANCE = 100', USED 3/4"x4" PREMOLDED EXPANSION MATERIAL.
3. CONTRACTION JOINTS MAXIMUM DISTANCE = 21', SAW CUT 2" DEEP AND FILL WITH HOT POURED SEALER.
4. SAW CUT JOINTS WITHIN 24 HOURS.

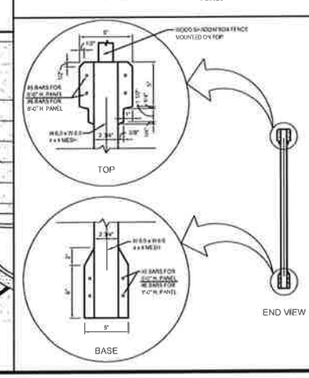
CONCRETE SIDEWALK DETAIL
N.T.S.

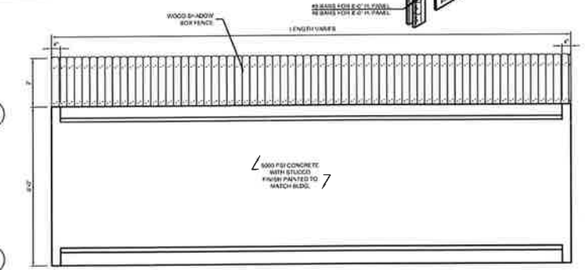
6'-0" H. AND 8'-0" H. WALL DECO POST DETAIL



6'-0" H. WALL LINE POST DETAIL

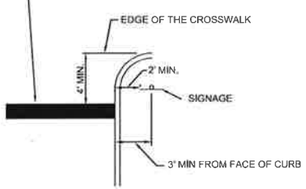






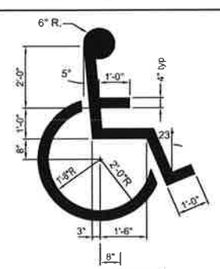
PANEL WALL DETAIL
N.T.S.

STOP BAR TO BE PLACED 4' MIN. FROM EDGE OF CROSS WALK (PER FDOT MUTCD 2009), UNLESS OTHERWISE SHOWN ON THE SITE PLAN.



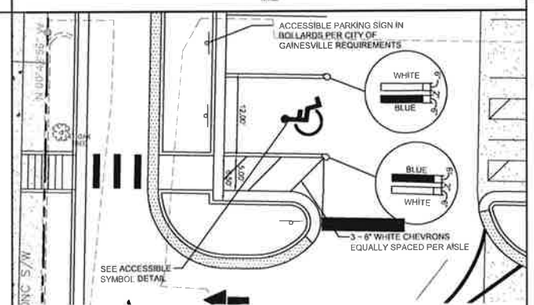
"STOP" BAR SHALL BE 24" WIDE AND 12' FOOT LONG, OR AS SHOWN ON SITE PLAN, WHITE REFLECTIVE PAINT. (SEE SITE PLAN FOR LOCATIONS)

STOP BAR DETAIL WITH SIGNAGE
N.T.S.



℄ of parking space

ACCESSIBLE SYMBOL
N.T.S.



ACCESSIBLE PARKING DETAIL
SCALE: 1" = 10'

McDONALD'S PROJECT CODE: 009-2618

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No.	Date	Revision	By

Designed by:	C.O.B.		
Drawn by:	P.W.R.		
Checked by:	B.P.C.		
Approved by:	W.P.O.		
Scale:	NTS		
Date:	12-15-15		
Job No.:	M29955		

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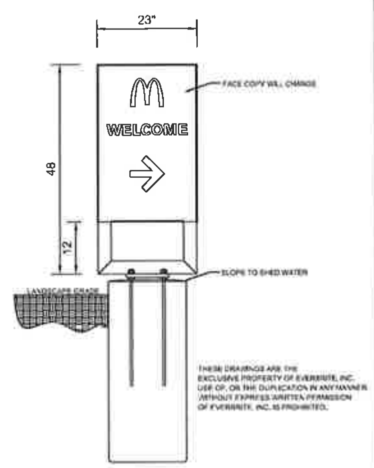
Arch. Lic. No. AA2600926
Lndscp. Lic. No. LC0000398

GENERAL DETAILS

McDonald's®
MACS RELO
CITY OF GAINESVILLE / FLORIDA

Sheet No.
C-10

J:\M29955\Civil\DWG\Design\M29955-DETAIL S-GENERAL.dwg Apr 28, 2016 - 11:47am dschneider



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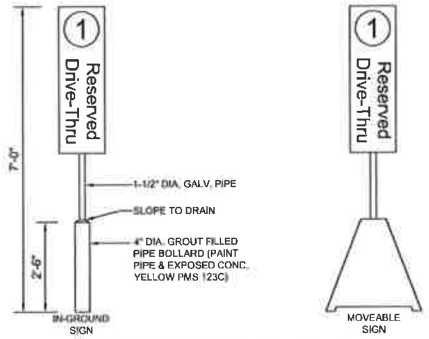
McDONALD'S ENTER/EXIT SIGN

N.T.S.

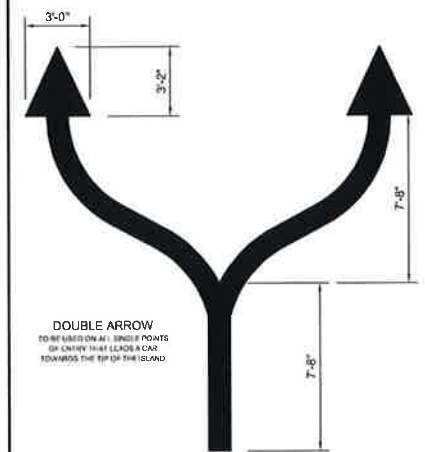


PULL FORWARD SIGNS ARE ONLY TO BE ORDERED THROUGH McDONALD'S APPROVED SIGNAGE VENDORS.

RECOMMENDATION IS TO USE PERMANENT IN-GROUND BASE AS FIRST CHOICE WHENEVER POSSIBLE. THE BASE OF THE SIGN HAS TO BE POSITIONED FREE AND CLEAR OF ANY ACCESSIBLE RAMPS AND NOT CREATE A BARRIER IN ALLOWING PROPER ADA CLEARANCES FOR CUSTOMER ACCESS TO THE BUILDING. COORDINATE ALL REQUIRED IN-GROUND INSTALLATION WORK WITH QUALIFIED GC. STANDARD INSTALLATION DETAILS WILL BE PROVIDED BY SIGNAGE VENDORS FOR REFERENCE.

DRIVE-THRU PARKING SIGN

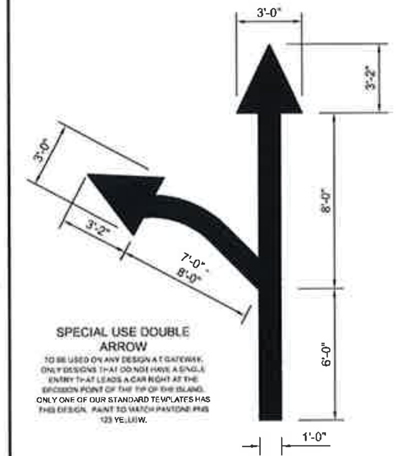
N.T.S.



DOUBLE ARROW
TO BE USED ON ALL SINGLE POINTS OF ENTRY THAT LEADS A CAR TOWARDS THE TIP OF THE ISLAND

TYPICAL PAVEMENT MARKINGS

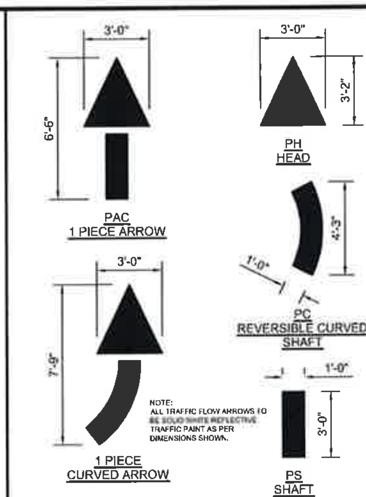
N.T.S.



SPECIAL USE DOUBLE ARROW
TO BE USED ON ANY DESIGN AT GATEWAY. ONLY DESIGNS THAT DO NOT HAVE A SINGLE ENTRY THAT LEADS A CAR RIGHT AT THE DECISION POINT OF THE TIP OF THE ISLAND. ONLY ONE OF OUR STANDARD TEMPLATES HAS THIS DESIGN. PAINT TO MATCH PANTONE PMS 123 YELLOW.

TYPICAL PAVEMENT MARKINGS

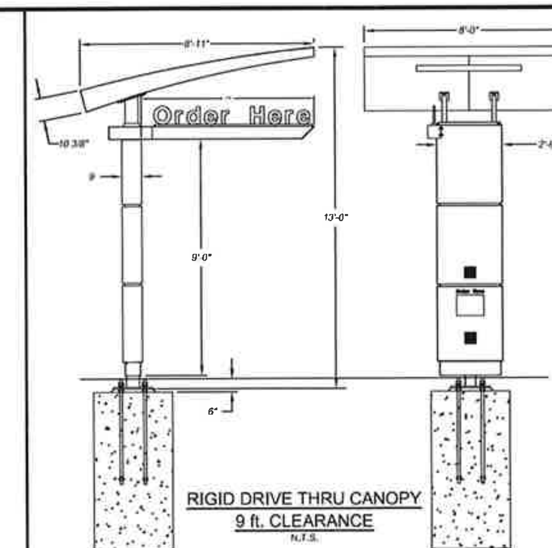
N.T.S.



NOTE:
ALL TRAFFIC FLOW ARROWS TO BE SOLID WHITE REFLECTIVE TRAFFIC PAINT AS PER DIMENSIONS SHOWN.

TYPICAL PAVEMENT MARKINGS

N.T.S.

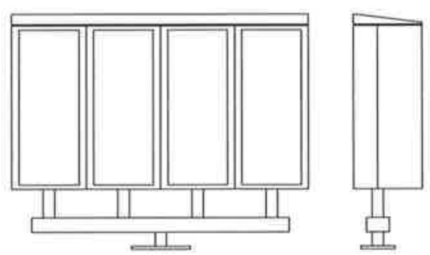


RIGID DRIVE THRU CANOPY 9 ft. CLEARANCE

N.T.S.

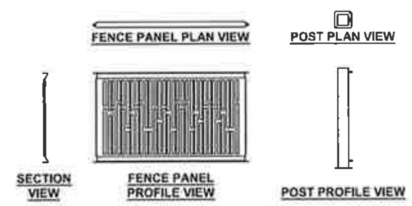
MENU BOARD NOTE:

MENU BOARD TO CONFORM TO CITY OF GAINESVILLE LAND DEVELOPMENT CODE



DRIVE THRU MENU BOARD

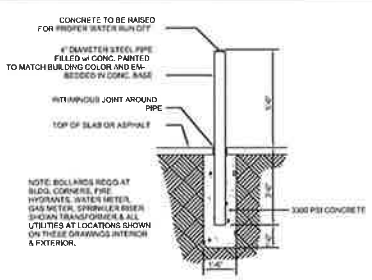
N.T.S.



WAUSAU TILE ALUMINUM FENCE PANEL McDONALD'S PATTERN
Size: 55" x 1" x 32" high
Weight: 45 Lbs.
Material: Powder coated aluminum
Powder Coating Colors:
Silk Gray - RAL7044; Beige Gray - RAL7006; Bronze; Black

ALUMINUM RAILING DETAIL

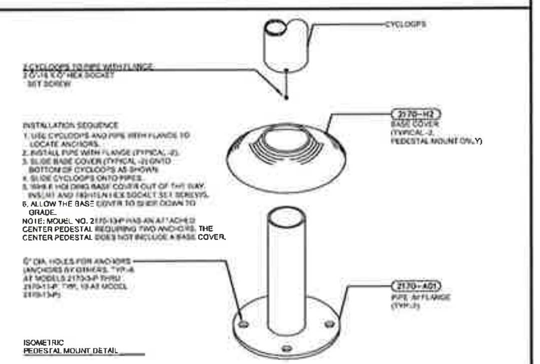
N.T.S.



NOTE: BOLLARDS REQD AT BLDG. CORNERS, FIRE HYDRANTS, WATER METER, GAS METER, SPRINKLER RISER SHOWN TRANSFORMER & ALL UTILITIES AT LOCATIONS SHOWN ON THESE DRAWINGS INTERIOR & EXTERIOR.

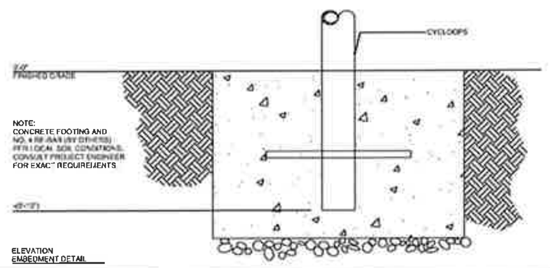
BOLLARD DETAIL

N.T.S.



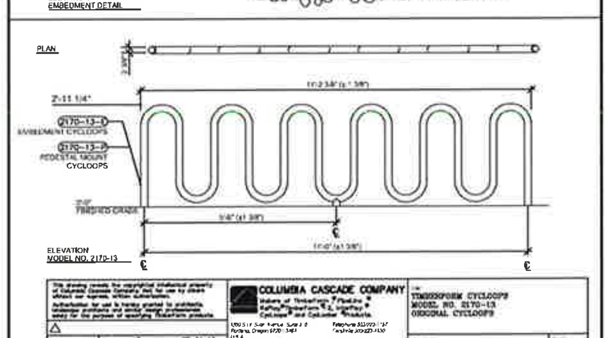
INSTALLATION SEQUENCE
1. USE CYCLOOPS AND PIPE WITH FLANGE TO LOCATE ANCHORS.
2. INSTALL PIPE WITH FLANGE (TYPICAL -2).
3. SLIDE BASE COVER (TYPICAL -2) ONTO BOTTOM OF CYCLOOPS AS SHOWN.
4. SLIDE CYCLOOPS ONTO PIPES.
5. WHILE HOLDING BASE COVER OUT OF THE WAY, INSERT AND TIGHTEN HEX SOCKET SET SCREWS.
6. ALLOW THE BASE COVER TO SLIDE DOWN TO GRADE.
NOTE: MODEL NO. 2170-13HP HAS AN ATTACHED CENTER PEDESTAL REQUIRING TWO ANCHORS. THE CENTER PEDESTAL DOES NOT INCLUDE A BASE COVER.

ISOMETRIC
PEDESTAL MOUNT DETAIL



NOTE:
CONCRETE FOOTING AND NO. 4 RE-BAR (BY OTHERS) PER LOCAL SOIL CONDITIONS. CONSULT PROJECT ENGINEER FOR EXACT REQUIREMENTS

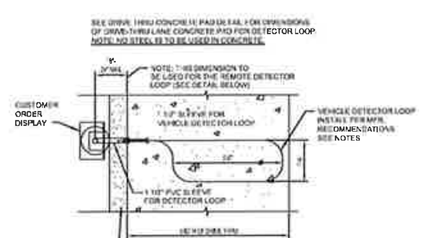
ELEVATION
EMBEDMENT DETAIL

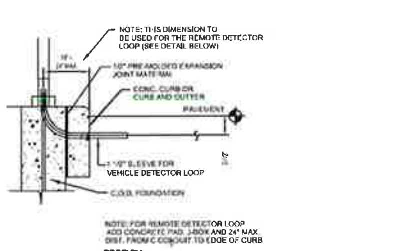


ELEVATION
MODEL NO. 2170-13

BICYCLE RACK DETAIL

N.T.S



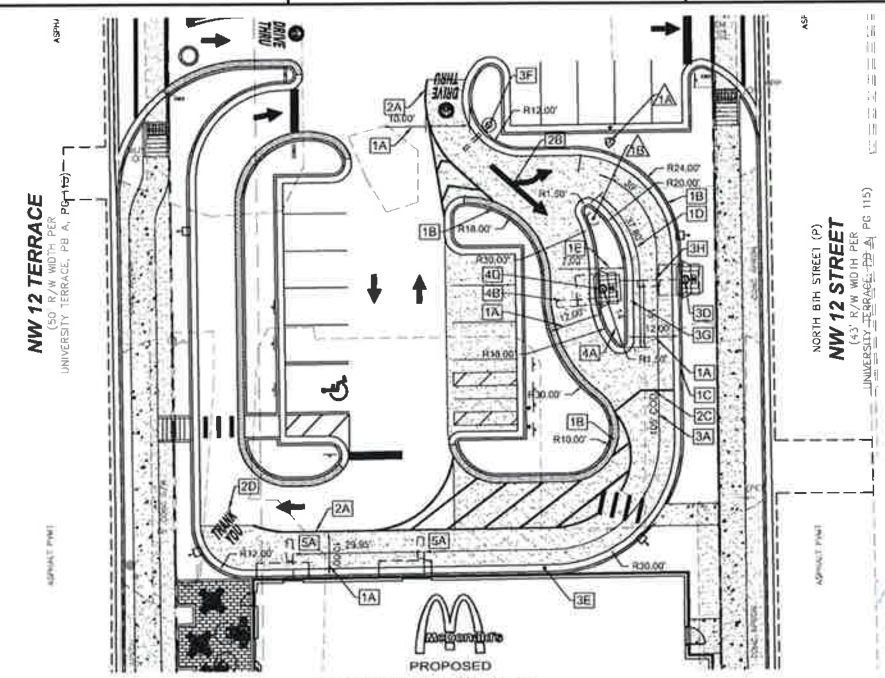


NOTE: FOR REMOTE DETECTOR LOOP ADD CONCRETE PAD, J-BOX AND 24" MAX. DIST. FROM CONDUIT TO EDGE OF CURB

SECTION

AUTO DETECTOR LOOP DETAIL

N.T.S.



SIDE BY SIDE DRIVE-THRU

1" = 20'

SIDE BY SIDE DRIVE-THRU

1. SIDE BY SIDE DRIVE-THRU CURBING DETAILS:

- [1A] DRIVE-THRU LANES BOUND BY CURB ON BOTH SIDES ARE TO BE 12'-0". LANES BOUND BY CURB ON ONE SIDE AND PAINTED STRIPING ON THE OTHER SIDE ARE TO BE A MIN. OF 10'-0".
- ★ [1B] THE MIN. RADIUS FOR ALL INSIDE/DRIVER'S SIDE DRIVE-THRU CURBING IS 20'-0" TO INSIDE OF CURB.
- [1C] PRIMARY LANE CURBING SHOULD BE AS STRAIGHT AS POSSIBLE. (LESS CURVING, THE BETTER).
- [1D] THE OVERALL LENGTH OF THE CURBED ISLAND SHOULD BE 35'-45'. THE LENGTH OF THE ISLAND FROM THE COD ALLOWS FOR THREE CARS IN THE SECONDARY LANE. TWO IN THE PRIMARY LANE AND ONE AT THE COMMITMENT POINT.
- ★ [1E] THE ISLAND WIDTH SHOULD BE 13' AT THE WIDEST POINT (FACE OF CURB TO FACE OF CURB).
- ★ [1F] ENTRANCE LANE ENTERING THE SIDE BY SIDE DRIVE-THRU IS TO BE 14'-0" MIN.

2. SIDE BY SIDE DRIVE-THRU PAVEMENT MARKINGS:

- [2A] 6" WIDE YELLOW PAINT STRIPE TO SPAN OUTER EDGE OF THE ENTIRE DRIVE-THRU LANE.
- [2B] DOUBLE-HEADED ARROW PAVEMENT MARKING. STANDARD STRIPING MARKINGS ARE 7' SHAFT, 7' ARROW STEM AND 3' FOR THE ARROW HEAD. TIP OF ARROW HEAD TO BE LOCATED AT CENTER OF EACH LANE.
- [2C] MERGE POINT IS LOCATED WHERE TWO VEHICLES LEAVING EACH COD SIMULTANEOUSLY WOULD MEET. THE MERGE POINT STRIPING IS TO BE LOCATED BY OFFSETTING THE INNER PRIMARY LANE BACK OF CURB 8.0' AND OFFSETTING THE OUTER LANE STRIPING 8.0'. AT THE INTERSECTION OF THESE OFFSETS, A 6" YELLOW STRIPE IS TO BE MARKED PERPENDICULAR TO THE OUTER LANE AS WELL AS THE INNER PRIMARY LANE.
- [2D] THE WORDS "THANK YOU" ARE TO BE PLACED AFTER THE 8" WIDE YELLOW STRIPE (PAINTED YELLOW).
- ★ [2E] THE 8" WIDE YELLOW STRIPE PRIOR TO THE WORDS "THANK YOU" IS FOR PARKING CARS THAT ARE WAITING FOR ORDERS. THE STRIPE SHOULD BE 40' FROM THE CENTER LINE OF THE OPEN PRESENT BOOTH WINDOW.

3. SIDE BY SIDE DRIVE-THRU EQUIPMENT POSITIONING FOR PRIMARY LANE:

- [3A] MIN. 60'-0" (+/-5' 60'-65') LINEAR DISTANCE BETWEEN THE CENTER LINE OF THE COD FACE AND THE CENTER LINE OF THE OPEN CASH BOOTH WINDOW AS MEASURED ALONG THE CENTER LINE OF THE LANE. THIS MAY ONLY BE INCREASED IN 20' INCREMENTS (+/-5' FOR 80', 100', & 120') TO A MAX. OF 120'. 100' IS OPTIMAL.
- ★ [3B] THE CENTER OF THE PRIMARY MENU BOARD FOUNDATION IS TO BE 10.0' FROM THE CENTER OF THE COD FOUNDATION.
- ★ [3C] THE PRIMARY MENU BOARD SHOULD BE AT AN ANGLE BETWEEN 40° AND 50° ANGLE FROM A CAR POSITIONED AT THE COD TO MAXIMIZE SECOND CAR VIEWING.
- [3D] AUGER "McDONALD'S ORDER HERE CANOPY" COD/CANOPY FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.
- [3E] A SINGLE BOLLARD SHOULD BE POSITIONED AT THE CORNER OF THE BUILDING ON THE DRIVE-THRU SIDE. IT SHOULD BE FLUSH AGAINST THE BUILDING AND FACE OF THE BOLLARD SHOULD BE TIGHT AGAINST THE BACK OF THE CURB.
- [3F] AUGER SINGLE ARM "McDONALD'S GATEWAY" FOOTING 18" TO 24" FROM FACE OF CURB, OR DOUBLE ARM GATEWAY SIGN SHOULD BE LOCATED AT THE TIP OF THE ISLAND. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.
- [3G] THE DISTANCE BETWEEN THE TIP OF THE CURBED ISLAND AND THE CENTER LINE OF THE PRIMARY COD MUST BE 15'-0". THIS MEASUREMENT IS TAKEN PARALLEL TO THE INSIDE CURB FACE OF THE PRIMARY LANE.
- [3H] THE PRIMARY LANE DETECTOR LOOP SHOULD BE PERPENDICULAR TO THE CENTER OF THE PRIMARY COD.
- ★ [3I] THE EDGE OF MENU BOARD SHALL BE POSITIONED A MINIMUM OF 18" AND A MAXIMUM OF 36" FROM FACE OF CURB, WHILE MAINTAINING 100% VISIBILITY.

4. SIDE BY SIDE DRIVE-THRU EQUIPMENT POSITIONING FOR SECONDARY LANE:

- [4A] TO POSITION THE SECONDARY COD, DRAW AN ARC WITH A 14' RADIUS THAT IS CENTERED FROM THE MIDPOINT OF THE ISLAND TIP. THEN OFFSET THE FACE OF CURB BY 24" TO DETERMINE THE LOCATION OF CENTER OF FOUNDATION OF SECONDARY COD.
- [4B] THE LOOP DETECTOR IS TO BE 2' FORWARD OF THE COD CENTER LINE WITH THE LOOP FACING FORWARD AND THE DETECTOR LOOP PERPENDICULAR TO THE SECONDARY COD WHEN POSSIBLE.
- ★ [4C] THE CENTER OF THE SECONDARY MENU BOARD FOUNDATION SHOULD BE LOCATED 22" FROM FACE OF CURB AND APPROXIMATELY 6'-0" FROM THE TIP OF THE CURBED ISLAND. THE END CAP OF THE SECONDARY MENU BOARD SHOULD NOT BE LOCATED OVER THE INNER FACE OF THE CURB. ANGLE SHOULD BE TO MAXIMIZE FIRST CAR VIEWING.
- [4D] AUGER "McDONALD'S ORDER HERE CANOPY" COD CANOPY FOUNDATION TIGHT AGAINST BACK OF CURB. SEE MANUFACTURER/LOCAL SPECIFICATIONS FOR DETAILS.
- ★ [4E] THE SECONDARY MENU BOARD SHOULD BE PARALLEL TO THE PRIMARY DRIVE THRU LANE. OPO MENU BOARD SHOULD BE AT AN ANGLE NO GREATER THAN 30° TO MAXIMIZE SECOND CAR VIEWING.)

5. SIDE BY SIDE DRIVE-THRU DETECTOR LOOP:

- [5A] DETECTOR LOOPS SHALL BE LOCATED AT THE CENTER OF THE OPENING WINDOW AT THE CASH AND PRESENT BOOTHS.

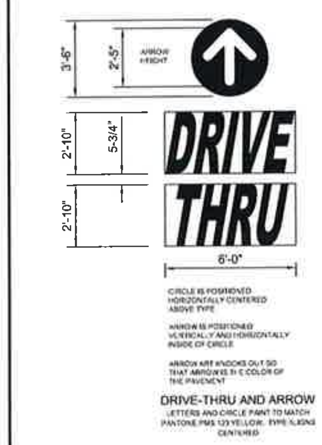
SIDE BY SIDE DRIVE-THRU OPTIONAL FEATURES:

1. SIDE BY SIDE DRIVE-THRU OPTIONAL EQUIPMENT:

- △1A THE EDGE OF THE PRE-SELL BOARD SHOULD BE 18"-24" FROM FACE OF CURB (12" IS THE MINIMUM). THE DISTANCE BETWEEN THE PRIMARY COD AND PRE-SELL BOARD IS TO BE 30' AS MEASURED ALONG THE CENTER LINE OF THE LANE. THIS IS MEASURED FROM THE CENTER OF THE PRE-SELL BOARD FOUNDATION TO THE CENTER OF THE COD FOUNDATION. THE ANGLE OF THE PRE-SELL BOARD SHOULD MAXIMIZE VISIBILITY TO THE THIRD CAR FROM COD.
- △1B "ANY LANE, ANY TIME" BOLLARD MUST BE A MIN. OF 1.5' FROM FACE OF CURB AT THE BEGINNING OF THE LANDSCAPE ISLAND. BOLLARD IS TO BE ORIENTED AT AN ANGLE OF 90° FROM THE CURB.

★ = ITEMS NOT PROVIDED OR UNABLE TO MEET LAYOUT CRITERIA DUE TO SITE CONSTRAINTS.

DRIVE THRU CRITICAL DIMENSIONS AND NOTES



CIRCLE IS POSITIONED HORIZONTALLY CENTERED ABOVE TYPE

ARROW IS POSITIONED VERTICALLY AND HORIZONTALLY INSIDE OF CIRCLE

ARROW ART KNOCKS OUT SO THAT ARROW IS THE COLOR OF THE PAVEMENT

DRIVE-THRU AND ARROW
LETTERS AND CIRCLE PAINT TO MATCH PANTONE PMS 123 YELLOW. TYPE ALIGNS CENTERED

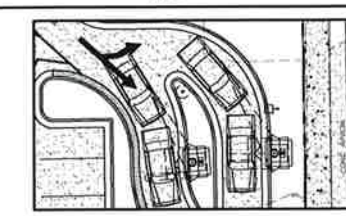
TYPE IS POSITIONED VERTICALLY SO BASE OF TYPE ALIGNS WITH HORIZONTAL EDGE OF PATH STRIPING (DASHED LINE DOES NOT PRINT)

YELLOW PAINT STRIPING AGAINST THE OUTER EDGE OF THE ENTIRE DRIVE-THRU PATH

END OF PATH "THANK YOU" AND "DRIVE-THRU" NO ARROW
TYPE IS POSITIONED HORIZONTALLY CENTERED WITHIN THE 10' PATH. PAINT TO MATCH PANTONE PMS 123 YELLOW.

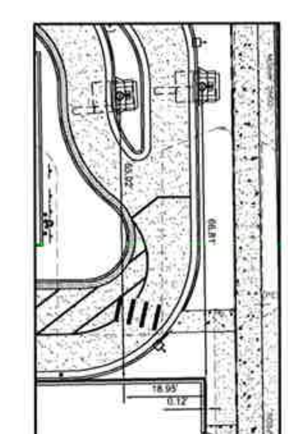
TYPICAL PAVEMENT MARKINGS

N.T.S.



DRIVE-THRU SIGHT TRIANGLE

SCALE: 1"=20'



DRIVE- THRU DIMENSION TIE

SCALE: 1"=20'

McDONALD'S PROJECT CODE: 009-2618

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No.	Date	Revision	By
△7			
△6			
△5			
△4			
△3			
△2			
△1			

Designed by:	C.O.B.
Drawn by:	P.W.R.
Checked by:	B.P.C.
Approved by:	W.P.O.
Scale:	AS SHOWN
Date:	12-15-15
Job No.:	M29955

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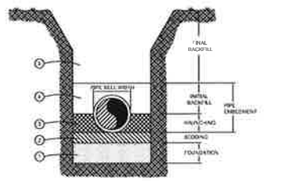
McDONALD'S DETAILS

McDonald's®
MACS RELO
CITY OF GAINESVILLE / FLORIDA

Sheet No.
C-11

Page: W-2.0



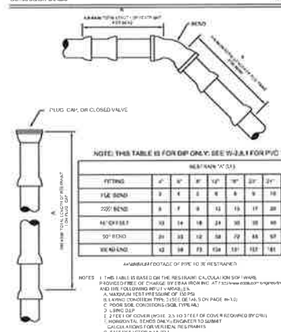
NOTES:

1. A FOUNDATION MAY BE REQUIRED IN VERY POOR SOIL (CLASS IV & V MUCK FILL) CONDITIONS FIELD DETERMINATION WILL BE PROVIDED BY GRU INSPECTOR. TYPICAL FOUNDATION THICKNESS SHALL BE 12" BUT MAY VARY ACCORDING TO MATERIAL MATERIAL.
2. BEDDING IS REQUIRED PRIMARILY TO BRING THE TRENCH BOTTOM UP TO GRADE. BEDDING MATERIALS SHALL PROVIDE A UNIFORM AND ADEQUATE CONTINUOUS SUPPORT UNDER THE PIPE. IN DRY SOIL CONDITIONS CLASS II OR CLASS III MATERIAL SHALL BE HAND PLACED 4" TO 6" LOOSELY COMPACTED. UNIFORM AND NOT LESS THAN THE FOUNDATION MATERIAL. IN WET SOIL CONDITIONS CLASS I, CLASS II OR CLASS III SHALL BE HAND PLACED 6" TO 8" UNIFORM AND NOT LESS THAN THE FOUNDATION MATERIAL. WHEN UTILIZING CLASS I MATERIAL SUFFICIENT AMOUNTS OF CLASS II OR CLASS III MATERIAL SHALL BE ADDED TO FILL ALL VOIDS CREATED BY THE CLASS I MATERIAL.
3. HAUNCHING MATERIAL SHALL BE HAND PLACED TO THE SPRINGLINE OF THE PIPE. CLASS II OR CLASS III MATERIAL SHALL BE CONSOLIDATED UNDER THE PIPE AND MUST HANDLE TAMPED TO PROVIDE ADEQUATE SIDE SUPPORT
4. INITIAL BACKFILL MATERIAL SHALL BE CLASS II OR CLASS III IT SHALL BE HAND PLACED TO 12" ABOVE THE TOP OF THE PIPE. THE SOIL SHALL BE CONSOLIDATED BY HAND TAMPING OR WALKING TO BE SOIL IN PLACE.
5. PIPE BEDDING MATERIAL MAY BE "BEDDING" PLACED. THE MATERIAL SHALL BE CLASS II OR CLASS III MATERIAL. CLASS IV MATERIAL MAY BE INSTALLED OUTSIDE OF THE ROADWAY. FINAL BACKFILL UNDER ROADWAY MAY REQUIRE SPECIAL COMPACTION AND DENSITY TESTS. REFER TO GRU COUNTY DRY FOOT STANDARDS, AS APPLICABLE.

Revision Date: 10/2/2014 | GRU Gainesville Regional Utilities
Potable Water Construction Details
BACKFILLING REQUIREMENTS
W-2.0

Potable Water Construction Details

Page: W-2.0



NOTE: THIS TABLE IS FOR DIP ONLY. SEE W-2.8.1 FOR PVC TABLES

RESTRAINT "A" (LF)									
FITTING	4"	6"	8"	10"	12"	16"	20"	24"	30"
11.25° BEND	4	5	7	8	9	12	14	16	19
22.5° BEND	8	9	13	15	18	23	27	31	38
45° BEND	13	14	18	24	30	38	46	57	68
90° BEND	21	23	32	38	52	66	82	102	126
DEAD END	42	46	73	104	137	197	261	313	243

AVAILABLE LENGTH OF PIPE TO BE RESTRAINED

NOTES:
1. THE TABLE IS BASED ON THE RESTRAINT CALCULATION SOFTWARE PROVIDED FREE OF CHARGE BY EBAA IRON INC. AT http://www.ebaairon.com/engineering/restraint-calculation-software/
2. MINIMUM TOTAL LENGTH OF RESTRAINT
A. MINIMUM TEST PIPE SQUARE OF 150 PSI
B. 1.5 FACTOR OF SAFETY
C. SOIL TYPE: CLASS 3 (SEE TABLE 5 ON PAGE W-1.0)
D. 2 FEET OF COVER OVER TOP OF PIPE
E. 1.5 PIPE SLIP
F. 2 FEET OF COVER OVER 3.5 TO 5 FEET OF COVER REQUIRED BY GRU
G. HORIZONTAL TRENCH ONLY, ENGINEER TO SUBMIT CALCULATIONS FOR VERTICAL RESTRAINTS
H. SAFETY FACTOR = 1.5 TO 1
3. FOR POLYWRAPPED D.I.P., VALVE, TEE OR FITTING BY - 20
4. FOR PVC PIPE, DIMENSIONS BELOW FOR 4" PIPE
• ASSUMED PIPE SHALL BE MANUFACTURED RESTRAINED PIPE, PUSH-ON RESTRAINT OR MECHANICAL JOINT PIPE RESTRAINED BY EBAA MEGALUG.
5. ANY ADDITIONAL FITTINGS WITHIN THE RESTRAINED SECTION MUST BE RESTRAINED ACCORDINGLY.

Revision Date: 10/07/2014 | GRU Gainesville Regional Utilities
Potable Water Construction Details
DIP RESTRAINED JOINT STANDARD FOR BENDS, PLUGS, AND CAPS
W-2.8

Potable Water Construction Details

Page: W-2.8.1

NOTE: THESE TABLES ARE FOR PVC PIPE ONLY. SEE W-2.8 OR W-2.9 FOR DIP

RESTRAINT "A" (LF)									
FITTING	4"	6"	8"	10"	12"	16"	20"	24"	30"
11.25° BEND	4	5	7	8	10	12	14	16	19
22.5° BEND	8	10	12	16	20	23	27	31	38
45° BEND	14	16	24	32	43	57	34	43	71
90° BEND	33	45	57	78	97	114	130	154	188
DEAD END	37	79	133	140	176	214	245	286	318

RESTRAINT (LF)		
FITTING SIZE	160 PSI	200 PSI
4x4	28	-
6x4	32	-
6x6	41	-
8x4	43	-
8x6	53	-
8x8	66	-
10x4	51	-
10x6	63	-
10x8	77	-
10x10	93	-
12x4	59	-
12x6	73	-
12x8	88	-
12x10	106	-
12x12	123	-
16x6	93	-
16x8	110	-
16x10	130	-
16x12	150	-
16x16	198	-
20x6	111	-
20x8	131	-
20x10	154	-
20x12	178	-
20x16	234	-
20x20	293	-
24x6	129	-
24x8	152	-
24x10	178	-
24x12	206	-
24x16	270	-
24x20	338	-
24x24	411	-
30x6	156	-
30x8	183	-
30x10	214	-
30x12	247	-
30x16	324	-
30x20	406	-
30x24	493	-
30x30	598	-
36x6	182	-
36x8	214	-
36x10	250	-
36x12	288	-
36x16	378	-
36x20	474	-
36x24	575	-
36x30	697	-
36x36	829	-

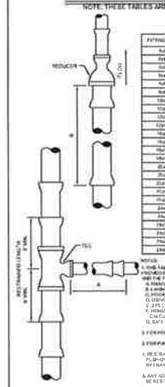
RESTRAINT (LF)		
FITTING SIZE	160 PSI	200 PSI
42x6	209	-
42x8	245	-
42x10	286	-
42x12	329	-
42x16	432	-
42x20	542	-
42x24	658	-
42x30	797	-
42x36	947	-
42x42	1110	-
48x8	276	-
48x10	322	-
48x12	370	-
48x16	486	-
48x20	610	-
48x24	741	-
48x30	897	-
48x36	1066	-
48x42	1249	-
48x48	1444	-
54x8	307	-
54x10	358	-
54x12	412	-
54x16	541	-
54x20	679	-
54x24	825	-
54x30	998	-
54x36	1187	-
54x42	1391	-
54x48	1608	-
54x54	1841	-

4.1 HYDROSTATIC PRESSURE AT 150 PSI, VALVE APPLICABLE

Revision Date: 10/07/2014 | GRU Gainesville Regional Utilities
Potable Water Construction Details
PVC RESTRAINED JOINT STANDARD FOR BENDS, PLUGS, CAPS, TEES AND REDUCERS
W-2.8.1

Page: W-2.9

NOTE: THESE TABLES ARE FOR DIP ONLY. SEE NOTES W-2.8.1 FOR PVC TABLES



RESTRAINT (LF)		
FITTING SIZE	160 PSI	200 PSI
4x4	28	-
6x4	32	-
6x6	41	-
8x4	43	-
8x6	53	-
8x8	66	-
10x4	51	-
10x6	63	-
10x8	77	-
10x10	93	-
12x4	59	-
12x6	73	-
12x8	88	-
12x10	106	-
12x12	123	-
16x6	93	-
16x8	110	-
16x10	130	-
16x12	150	-
16x16	198	-
20x6	111	-
20x8	131	-
20x10	154	-
20x12	178	-
20x16	234	-
20x20	293	-
24x6	129	-
24x8	152	-
24x10	178	-
24x12	206	-
24x16	270	-
24x20	338	-
24x24	411	-

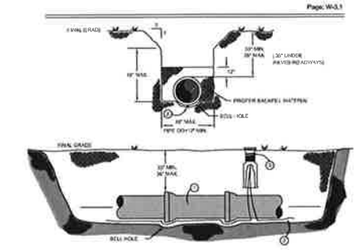
RESTRAINT (LF)		
FITTING SIZE	160 PSI	200 PSI
30x6	156	-
30x8	183	-
30x10	214	-
30x12	247	-
30x16	324	-
30x20	406	-
30x24	493	-
30x30	598	-
36x6	182	-
36x8	214	-
36x10	250	-
36x12	288	-
36x16	378	-
36x20	474	-
36x24	575	-
36x30	697	-
36x36	829	-
42x6	209	-
42x8	245	-
42x10	286	-
42x12	329	-
42x16	432	-
42x20	542	-
42x24	658	-
42x30	797	-
42x36	947	-
42x42	1110	-
48x8	276	-
48x10	322	-
48x12	370	-
48x16	486	-
48x20	610	-
48x24	741	-
48x30	897	-
48x36	1066	-
48x42	1249	-
48x48	1444	-
54x8	307	-
54x10	358	-
54x12	412	-
54x16	541	-
54x20	679	-
54x24	825	-
54x30	998	-
54x36	1187	-
54x42	1391	-
54x48	1608	-
54x54	1841	-

4.1 HYDROSTATIC PRESSURE AT 150 PSI, VALVE APPLICABLE

NOTES:
1. THE TABLE IS BASED ON THE RESTRAINT LENGTH CALCULATOR SOFTWARE PROVIDED FREE OF CHARGE BY EBAA IRON INC. AT http://www.ebaairon.com/engineering/restraint-calculation-software/
2. MINIMUM TOTAL LENGTH OF RESTRAINT
A. MINIMUM TEST PIPE SQUARE OF 150 PSI
B. 1.5 FACTOR OF SAFETY
C. SOIL TYPE: CLASS 3 (SEE TABLE 5 ON PAGE W-1.0)
D. 2 FEET OF COVER OVER TOP OF PIPE
E. 1.5 PIPE SLIP
F. 2 FEET OF COVER (NOTE: 3.5 TO 5 FEET OF COVER REQUIRED BY GRU)
G. HORIZONTAL BENDS ONLY, ENGINEER TO SUBMIT CALCULATIONS FOR VERTICAL RESTRAINTS
H. SAFETY FACTOR = 1.5 TO 1
3. FOR PVC PIPE, DIMENSIONS BELOW FOR 4" PIPE
• ASSUMED PIPE SHALL BE MANUFACTURED RESTRAINED PIPE, PUSH-ON RESTRAINT OR MECHANICAL JOINT PIPE RESTRAINED BY EBAA MEGALUG.
4. ANY ADDITIONAL FITTINGS WITHIN THE RESTRAINED SECTION SHALL BE RESTRAINED ACCORDINGLY.
5. IF EITHER OR BOTH ENDS OF A TEE HAVE A VALVE, THEN RESTRAIN ONLY THE BRANCH OF THE TEE SHALL BE TREATED AS A DEAD END TO RESTRAINT ACCORDING TO THE TABLE ON THE PAGE.

Revision Date: 10/07/2014 | GRU Gainesville Regional Utilities
Potable Water Construction Details
DIP RESTRAINED JOINT STANDARD FOR TEES AND REDUCERS
W-2.9

Page: W-3.1



MATERIALS

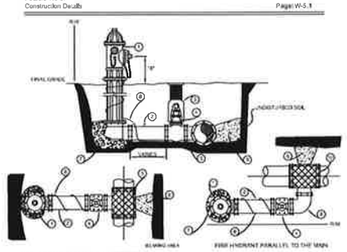
ITEM	DESCRIPTION
1	WATER MAIN PIPE
2	TRACER WIRE, BLUE #12 AWG
3	VALVE BOX

NOTES:
1. PVC PLASTIC PIPE SHALL REQUIRE AN INSULATED COPPER WIRE, TAPED EVERY 10' (±1') ON THE BOTTOM OF THE PIPE AND WRAPPED AROUND EACH FIRE HYDRANT AT FINAL GRADE. THE WIRE SHALL BE CONTINUOUS AND ALL SPLICES REQUIRE SOLDER FILLED CONNECTORS. TRACER WIRE SHALL CONTINUE ACROSS DIP SECTIONS OF PIPE. SUCH AS AT ROAD CROSSINGS.
2. DEPTH OF PIPE MAY BE FIELD ADJUSTED TO MEET SPECIAL CONDITIONS AS DETERMINED BY GRU ENGINEER OR INSPECTOR. PIPE INSTALLED WITH LESS THAN 30" OR GREATER THAN 36" OF COVER SHALL BE ADJ.
3. VALVE BOX SHALL BE INSTALLED AT MAXIMUM 500 FT. INTERVALS FOR TESTING OF TRACER WIRE.

Revision Date: 10/07/2014 | GRU Gainesville Regional Utilities
W-3.1

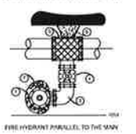
Potable Water Construction Details

Page: W-5.1



MATERIALS

ITEM	DESCRIPTION
1	FIRE HYDRANT
2	ANCHORING COUPLING
3	VALVE BOX C.I.
4	GATE VALVE
5	ANCHORING TEE
6	CONCRETE THRUST BLOCK (2500 psi)
7	GRAVEL DRAINAGE
8	TRACER WIRE COPPER #6 (UNINSULATED #12 AWG)
9	ANCHORING 90° BEND (4")
10	TEE

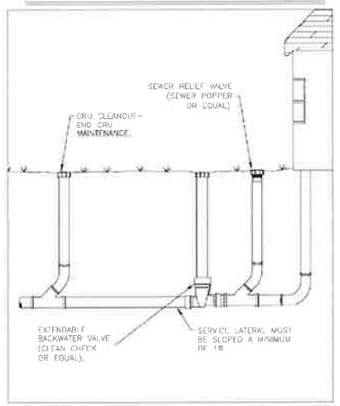


NOTES:
1. SEE W-2.7 FOR BEARING AREA REQUIRED.
2. A NONPOROUS MATERIAL (4 MIL) (MIN.) POLYETHYLENE OR 15 lb (MIN.) FELT SHOULD BE PLACED BETWEEN THE CONCRETE AND THE ENTIRE FITTINGS.

Revision Date: 10/2/2014 | GRU Gainesville Regional Utilities
Potable Water Construction Details
FIRE HYDRANT PERPENDICULAR & PARALLEL TO THE MAIN
W-5.1

Wastewater Construction Details

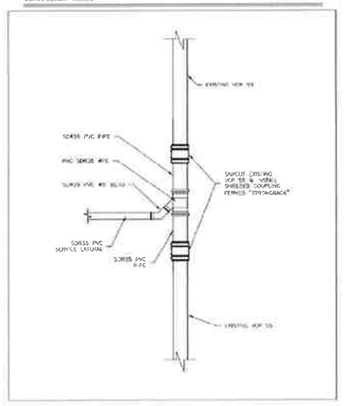
Page: WW-3.5



Revision Date: 9/15/2014 | GRU Gainesville Regional Utilities
Wastewater Construction Details
BACKWATER VALVE/SEWER RELIEF VALVE DETAIL
WW-3.5

Wastewater Construction Details

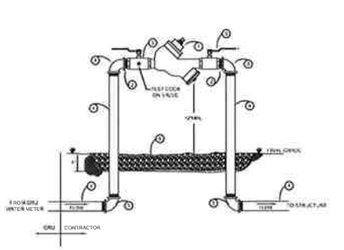
Page: WW-5.4



Revision Date: 7/18/2013 | GRU Gainesville Regional Utilities
Wastewater Construction Details
INSTALL PVC WYE & LATERAL INTO VCP SEWER MAIN
WW-5.4

Potable Water Construction Details

Page: W-10.1



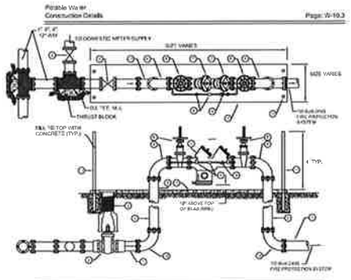
MATERIALS

ITEM	DESCRIPTION
1	3/4", 1", 1-1/4", 1-1/2", 2" REDUCED PRESSURE ZONE BACKFLOW PREVENTER
2	3/4", 1", 1-1/4", 1-1/2", 2" BRASS NIPPLE
3	3/4", 1", 1-1/4", 1-1/2", 2" GALVANIZED 90 BEND
4	3/4", 1", 1-1/4", 1-1/2", 2" GALVANIZED PIPE
5	3/4", 1", 1-1/4", 1-1/2", 2" 150 SERIES BRASS BALL VALVE
6	GRAVEL BED (NO. 57 STONE)

Revision Date: 4/1/2012 | GRU Gainesville Regional Utilities
Potable Water Construction Details
REDUCED PRESSURE ZONE BACKFLOW PREVENTER SINGLE SERVICE: 3/4", 1", 1-1/4", 1-1/2", 2"
W-10.1

Potable Water Construction Details

Page: W-10.3



MATERIALS

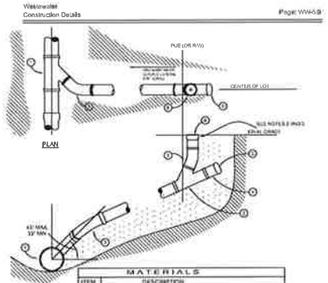
ITEM	DESCRIPTION
1	2", 3", 4", 6", 8", 10" FIRE MAIN
2	2", 3", 4", 6", 8", 10" GATE VALVE, FL X FL (LOCKED GRU MAIN ENHANCE)
3	VALVE BOX C.I.
4	2", 3", 4", 6", 8", 10" BEND 90° FL X FL
5	2", 3", 4", 6", 8", 10" DUCTILE IRON PIPE FLANGE X PE.
6	2", 3", 4", 6", 8", 10" DUAL X TYPE GATE VALVE
7	2", 3", 4", 6", 8", 10" BACKFLOW PREVENTER (DOUBLE CHECK OR REDUCED PRESSURE)
8	3/4" SHUTOFF VALVE AND RETURN BYPASS METER
9	3/4" DETECTOR CHECK VALVE
10	4" CONCRETE SLAB (2500 PSI)
11	4" GALVANIZED STEEL PIPE (SCH 40) GUARD POST - PAINTED SAFETY YELLOW
12	2", 3", 4", 6", 8", 10" 90 BEND ELL WITH FLANGE X FLANGE

NOTE: DETECTOR CHECK ON 1" ASSEMBLY MAY NOT BE REQUIRED BY GRU INSPECTOR. ALL INSTALLATIONS BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED AT END OF DRIVEWAY OR ABOVE GRADE

Revision Date: 4/1/2012 | GRU Gainesville Regional Utilities
Potable Water Construction Details
DOUBLE CHECK OR REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY
W-10.3

Wastewater Construction Details

Page: WW-5.8



MATERIALS

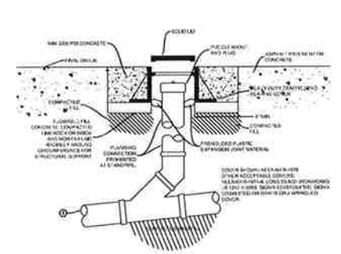
ITEM	DESCRIPTION
1	6" or 8" x 6" (DIA.) COUPLING WITH JOINT
2	6" or 8" DUCTILE IRON PIPE
3	6" or 8" 45° BEND
4	6" or 8" SADDLE LATERAL PIPE CONNECTION
5	6" or 8" PVC CAP, PLUMBING CONNECTION
6	6" or 8" CLEANOUT ADAPTER WITH PLUG/FLUSH

NOTES:
1. PVC (SDR 35) PIPES ARE ACCEPTABLE. PVC (SDR 35) TY-PE & STANDARD TEES ARE UNACCEPTABLE
2. CLEAN OUT SHALL BE ADJUSTED TO FINAL GRADE BY CONTRACTOR AFTER CONCRETE TOP
3. WHERE CLEANOUT IS WITHIN PARKING LOT AND ON PAVING OR DRIVEWAY ADJACENT TO PAVEMENT CLEANOUT MUST BE INSTALLED 2'-4" BELOW FINAL GRADE WITH TRAFFIC BEARING COVER AT FINAL GRADE.
4. WHERE CLEANOUT IS WITHIN SIDEWALK IT MUST BE INSTALLED FLUSH WITH SURFACE OF SIDEWALK WITH A BRASS PLUG WITH SQUARE NECK.
5. PLUMBER SHALL NOT CONNECT TO STORMPIPE.

Revision Date: 3/12/2012 | GRU Gainesville Regional Utilities
Wastewater Construction Details
WASTEWATER SERVICE LATERAL
WW-5.8

WASTEWATER CONSTRUCTION DETAILS

PAGE: WW-5.3



MATERIALS

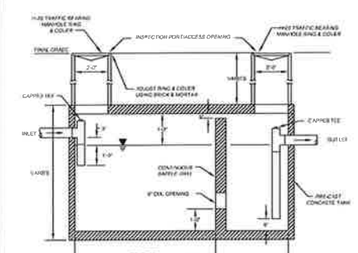
ITEM	DESCRIPTION
1	4" OR 6" PVC SERVICE LATERAL PIPE

NOTES:
1. OPEN TRENCH INSPECTION REQUIRED BY THE CITY OF GAINESVILLE BUILDING DEPT., CODE ENFORCEMENT DIVISION, FOR ALL PLUMBING WITHIN THE CITY LIMITS.
2. NO OPEN TRENCH INSPECTION REQUIRED BY ALACHUA COUNTY CODE ENFORCEMENT DEPT. GRU INSPECTOR NOTIFICATION REQUIRED.
3. PLUMBER SHALL NOT CONNECT TO STORMPIPE.
4. 1h-20 MINIMUM LOAD RATING REQUIRED.
5. TRAFFIC LOAD BEARING COVER INSTALLATION REQUIRED FOR GRU MAINTAINED AND PRIVATE CLEANOUTS.

Revision Date: 10/9/2001 | GRU Gainesville Regional Utilities
Wastewater Construction Details
WASTEWATER CLEANOUT WITH TRAFFIC LOAD BEARING COVER
WW-5.3

Wastewater Construction Details

Page: WW-6.9



NOTES:
1. TANK VOLUME TO BE DETERMINED BY GRU UPON APPLICATION BY OWNER. STRUCTURAL DESIGN SHALL BE THE RESPONSIBILITY OF THE TANK MANUFACTURER.
2. ONLY KITCHEN WASTE SHALL BE DISCHARGED INTO THE GREASE TRAP. ALL DOMESTIC WASTE (EX. RESTROOMS) SHALL BE CONNECTED DOWNSTREAM OF THE GREASE TRAP.

Revision Date: 3/12/2013 | GRU Gainesville Regional Utilities
Wastewater Construction Details
GREASE TRAP
WW-6.9

McDONALD'S PROJECT CODE: 009-2618

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No.	Date	Revision	By

Designed by: C.O.B.
Drawn by: P.W.R.
Checked by: B.P.C.
Approved by: W.P.O.
Scale: NTS
Date: 12-15-15
Job No.: M29955

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UTILITY DETAILS

McDonald's

MACS RELO
CITY OF GAINESVILLE / FLORIDA

Sheet No.

C-12

STORMWATER CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-740, SC-310, OR APPROVED EQUAL.
2. CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS
3. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
4. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
5. CHAMBERS SHALL MEET ASTM F2922 (POLYETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
7. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
   a. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
   b. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
   c. STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
8. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310/SC-740 SYSTEM

1. STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

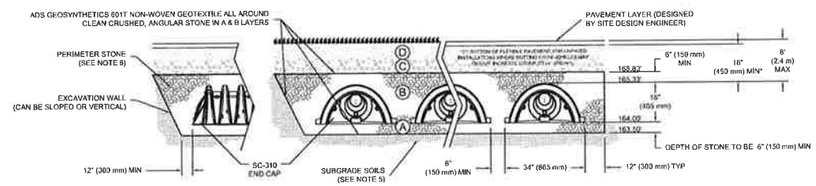
USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE. NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE. NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.

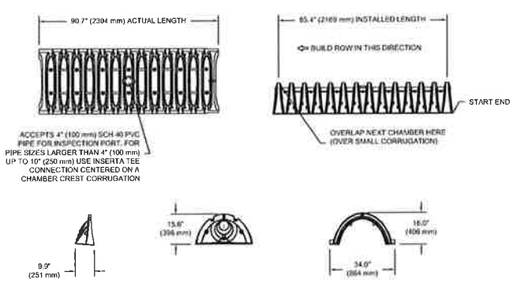


NOTES:

1. SC-310 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
4. THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.
5. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
6. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
7. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

SC-310 TECHNICAL SPECIFICATION

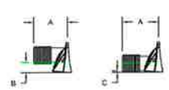
NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	34.0" X 16.0" X 85.4"	(864 mm X 406 mm X 2169 mm)
CHAMBER STORAGE	14.7 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	31.0 CUBIC FEET	(0.88 m³)
WEIGHT	35.0 lbs.	(16.8 kg)

*ASSUMES 6" (152 mm) ABOVE, BELOW, AND BETWEEN CHAMBERS



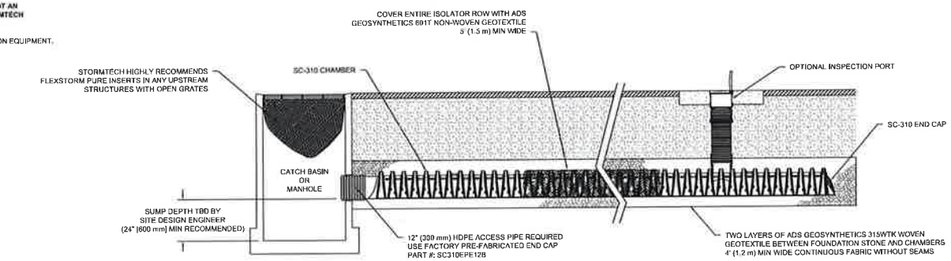
PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE CORED END CAPS END WITH "PC"

PART #	STUB	A	B	C
SC310EPE06T / SC310EPE06TPC	6" (150 mm)	9.6" (244 mm)	5.6" (147 mm)	—
SC310EPE06B / SC310EPE06BPC			—	0.5" (13 mm)
SC310EPE06T / SC310EPE06TPC	6" (200 mm)	11.9" (302 mm)	3.5" (89 mm)	—
SC310EPE06B / SC310EPE06BPC			—	0.6" (15 mm)
SC310EPE10T / SC310EPE10TPC	10" (250 mm)	12.7" (323 mm)	1.4" (36 mm)	—
SC310EPE10B / SC310EPE10BPC			—	0.7" (18 mm)
SC310EPE12B	12" (300 mm)	13.5" (343 mm)	—	0.9" (23 mm)

ALL STUBS, EXCEPT FOR THE SC310EPE12B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC310EPE12B THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm) BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL



SC-310 ISOLATOR ROW DETAIL

NTS

PROPOSED LAYOUT

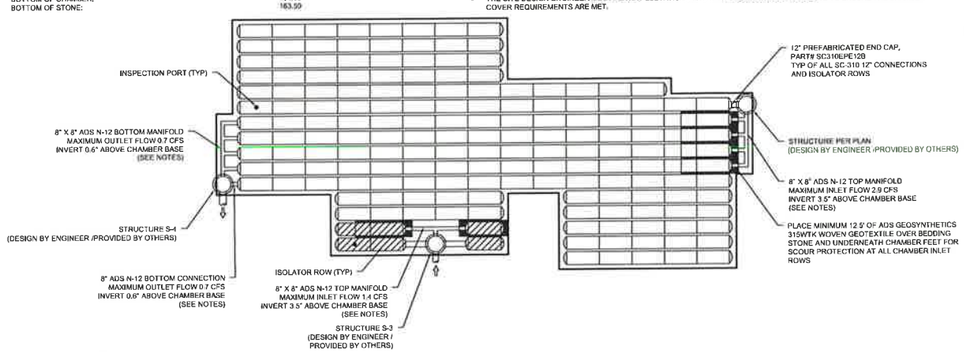
(176) STORMTECH SC-310 CHAMBERS
(44) STORMTECH SC-310 END CAPS
INSTALLED WITH 6" COVER STONE, 6" BASE STONE, 40% STONE VOID
INSTALLED SYSTEM VOLUME: 9,014 CF (PERIMETER STONE INCLUDED)
AREA OF SYSTEM: 4,774 FT²
PERIMETER OF SYSTEM: 370 FT

PROPOSED ELEVATIONS

MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	173.33
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	167.33
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	166.83
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	166.83
MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	166.83
TOP OF STONE:	165.83
TOP OF CHAMBER:	165.33
8" TOP MANIFOLD INVERT:	164.79
12" ISOLATOR ROW INVERT:	164.09
8" BOTTOM MANIFOLD INVERT:	164.05
BOTTOM OF CHAMBER:	164.00
BOTTOM OF STONE:	163.50

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH SHEET #7 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.



INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

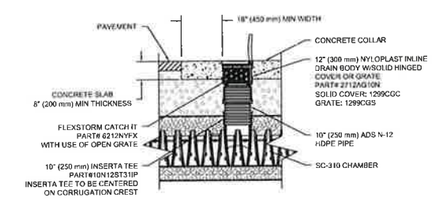
STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

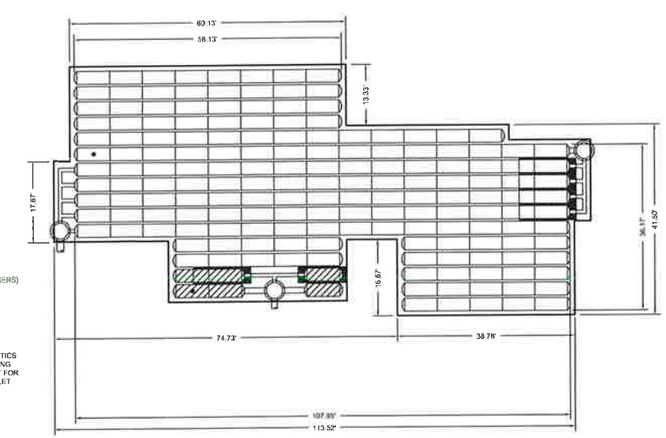
NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



SC-310 INSPECTION PORT DETAIL

NTS



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No.	Date	Revision	By

Designed by:	C.O.B.
Drawn by:	P.W.R.
Checked by:	B.P.C.
Approved by:	W.P.O.
Scale:	NTS
Date:	12-15-15
Job No.:	M29955

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Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. AA26000926
Landscp. Lic. No. LC26000298

UNDERGROUND STORMWATER DETAILS

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Sheet No.
C-13

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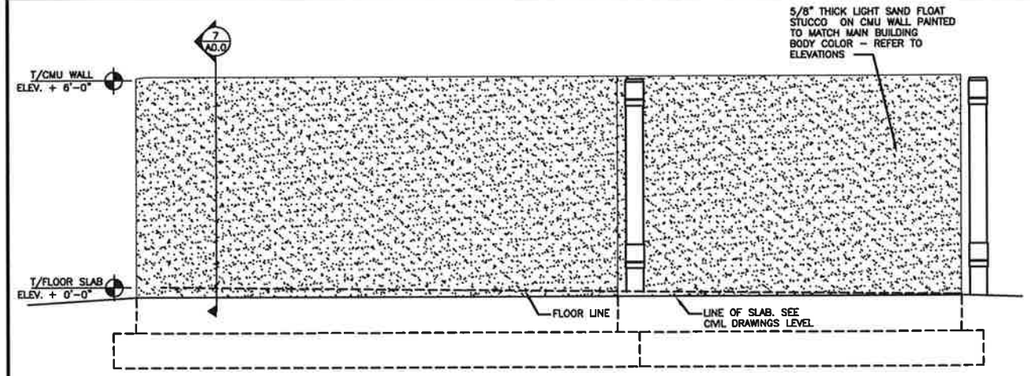
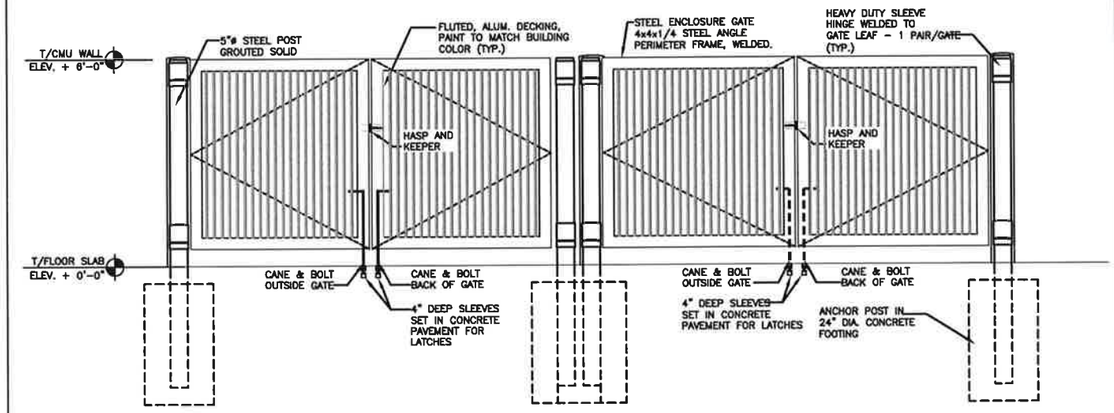
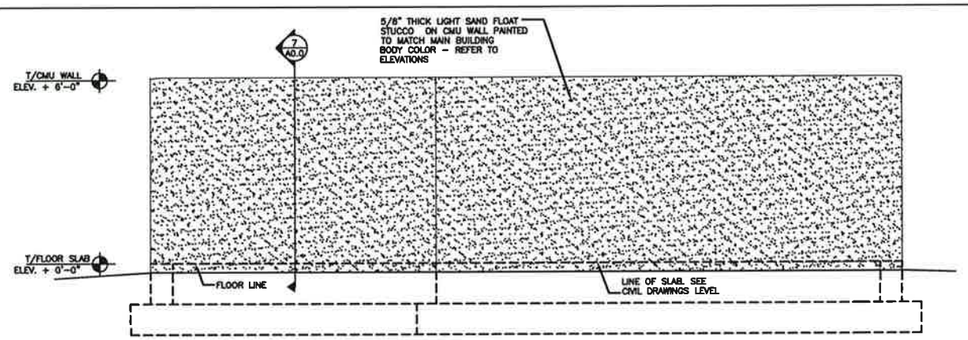


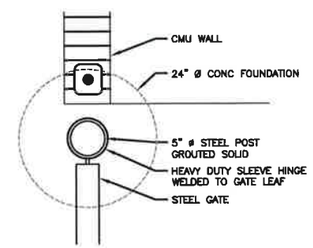
4 A0.0 ENCLOSURE SIDE ELEVATION
1/2"=1'-0"



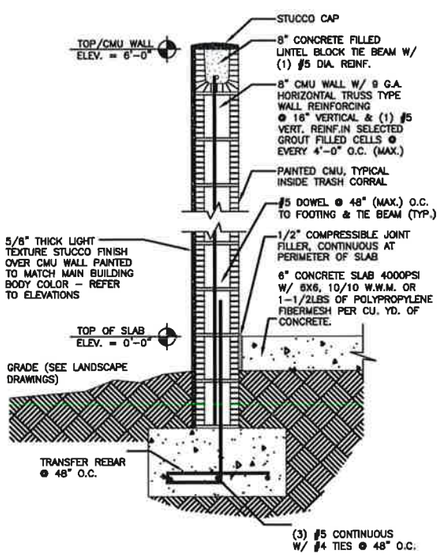
2 A0.0 ENCLOSURE FRONT ELEVATION
1/2"=1'-0"



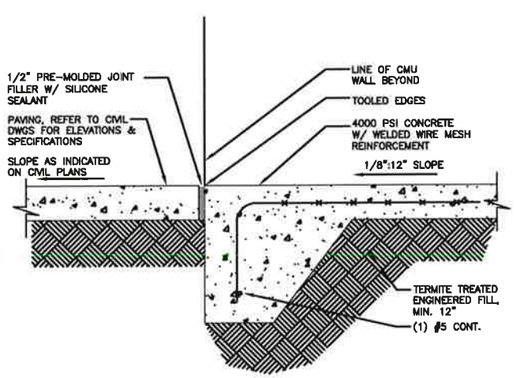
3 A0.0 ENCLOSURE REAR ELEVATION
1/2"=1'-0"



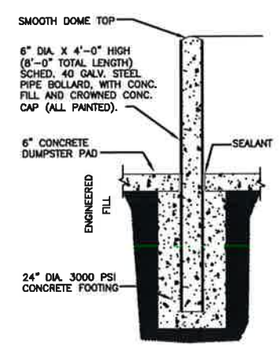
5 A0.0 JAMB DETAILS
1"=1'-0"



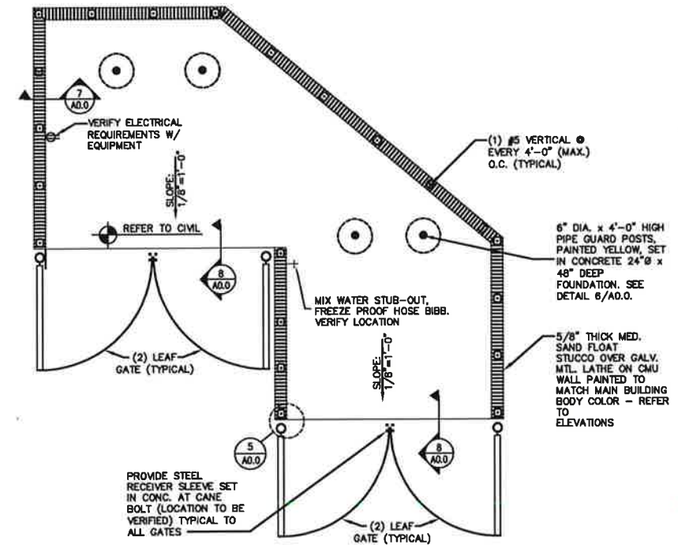
7 A0.0 WALL SECTION
1"=1'-0"



8 A0.0 SLAB SECTION AT GATE
1"=1'-0"



6 A0.0 PIPE GUARD DETAILS
1/2"=1'-0"



1 A0.0 DUMPSTER ENCLOSURE PLAN
1/2"=1'-0"

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No.	Date	Revision	By

Designed by: C.O.B.
Drawn by: P.W.R.
Checked by: B.P.C.
Approved by: W.P.O.
Scale: AS SHOWN
Date: 12-15-15
Job No.: M29955
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Arch. Lic. No. AA26000926
Lndscp. Lic. No. LC0000298

REFUSE ENCLOSURE DETAIL SHEET

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Sheet No.
C-14

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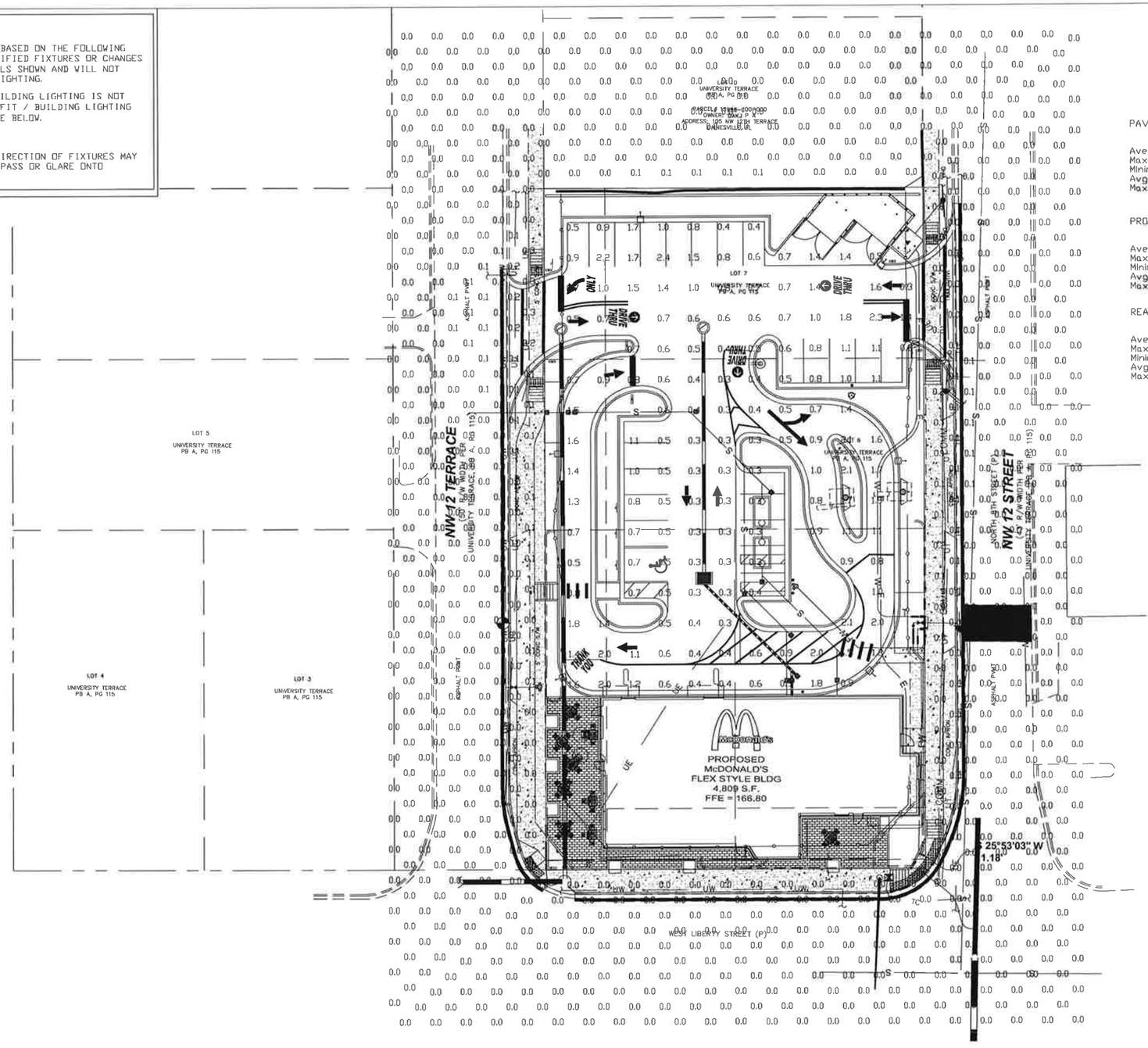
DRWG. NO. 1PCP31598A

NOTES:

1. THE FOOTCANDLE LEVELS AS SHOWN ARE BASED ON THE FOLLOWING CRITERIA. ANY SUBSTITUTIONS IN SPECIFIED FIXTURES OR CHANGES TO LAYOUT WILL AFFECT LIGHTING LEVELS SHOWN AND WILL NOT BE THE RESPONSIBILITY OF SECURITY LIGHTING.
2. THE CONTRIBUTION OF THE SOFFIT / BUILDING LIGHTING IS NOT REFLECTED ON THE DRAWING UNLESS SOFFIT / BUILDING LIGHTING IS SPECIFIED IN THE FIXTURE SCHEDULE BELOW.
3. DISTANCE BETWEEN READINGS 10'
4. FINAL ADJUSTMENTS TO AIMING ANGLE/DIRECTION OF FIXTURES MAY BE REQUIRED TO ELIMINATE LIGHT TRESPASS OR GLARE ONTO ADJOINING PROPERTIES OR ROADWAYS.



PAVED SURFACE READINGS

Average	0.9
Maximum	2.4
Minimum	0.3
Avg:Min	3.00
Max:Min	8.00

PROPERTY LINE READINGS

Average	0.1
Maximum	0.3
Minimum	0.0
Avg:Min	N/A
Max:Min	N/A

READINGS BEYOND PROPERTY LINE

Average	0.0
Maximum	0.2
Minimum	0.0
Avg:Min	N/A
Max:Min	N/A

LP-1

** - SPECIFY COLOR

FIXTURE TYPE:	SYMBOL	FIXTURE QUANTITY	CONFIG	QUANTITY	TENON TOP FITTERS	QUANTITY	EPA	MOUNTING HEIGHT	LLF
VP-S-22NB-50-5k-T4-UNV-RA-**-BLC		6	SGL	6	TTFVIPER	6	0.67	15'	0.87

POLE TYPE:	QUANTITY	WIND LOAD	ALLOWED EPA
CONCRETE BY OTHERS	6		

NOTE: LIGHTING FIXTURES TO BE "NON-TILT" TYPE.

THIS DRAWING MEETS OR EXCEEDS McDONALDS CURRENT ILLUMINATION SPECIFICATIONS OF A 3-4 FOOTCANDLE AVERAGE, UNLESS SUPERSEDED BY OTHER REQUIREMENTS.

THIS LAYOUT MAY NOT MEET TITLE 24 OR LOCAL ENERGY REQUIREMENTS. IF THIS LAYOUT NEEDS TO BE TITLE 24 COMPLIANT OR MEET OTHER ENERGY REQUIREMENTS, PLEASE CONSULT FACTORY WITH SPECIFIC DETAILS REGARDING PROJECT REQUIREMENTS SO THAT REVISIONS MAY BE MADE TO THE DRAWING.

THIS LIGHTING PATTERN REPRESENTS ILLUMINATION LEVELS CALULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRES MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS.

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES

NOTES:

SCALE 1" = 20' 0"		DATE	NEXT ASSEMBLY	REF. DRWGS.
DRAWN BY	MW	2/12/16		
CHECKED BY				
APPROVED BY				
APPROVED BY		FINISH		
APPROVED BY				
SHOP ORDER		MATERIAL		
PROJECT NO.				

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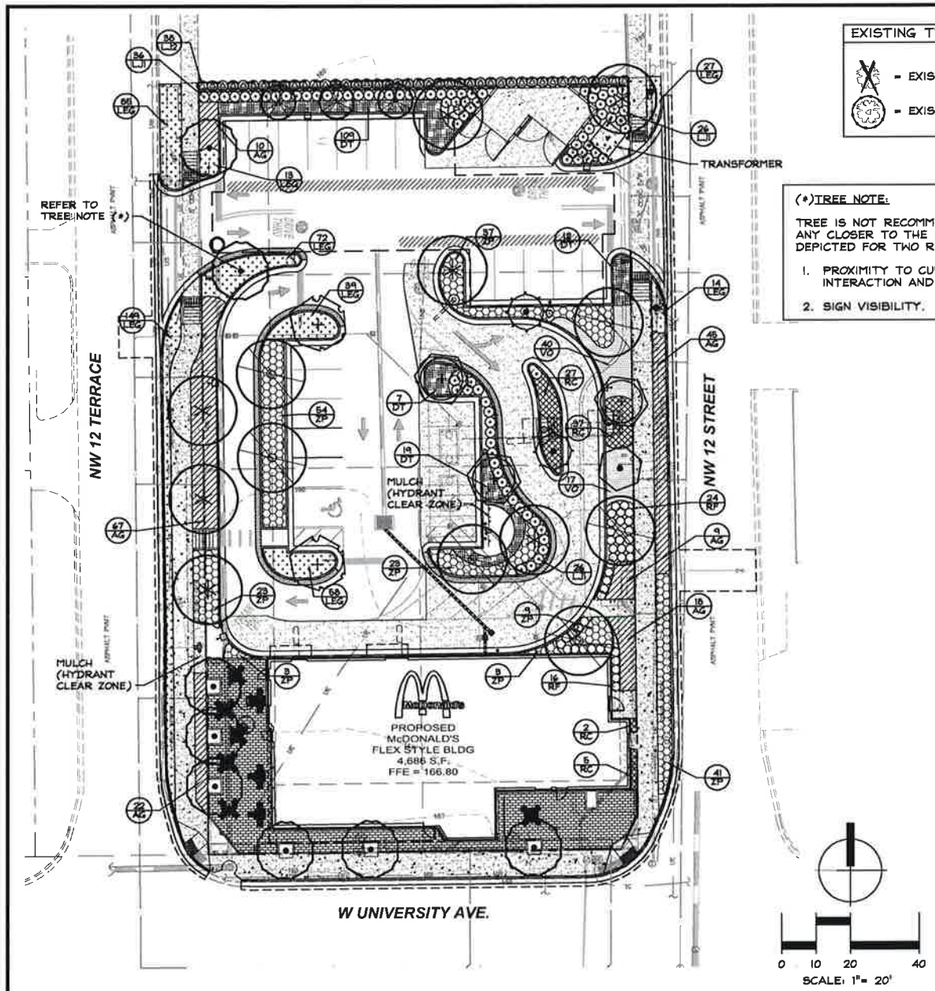
POINT-BY-POINT FOOTCANDLE PLOT FOR
- McDONALD'S -
1206 W UNIVERSITY AVE
GAINESVILLE, FL

DRAWING NUMBER
1PCP31598A



EXISTING TREE LEGEND

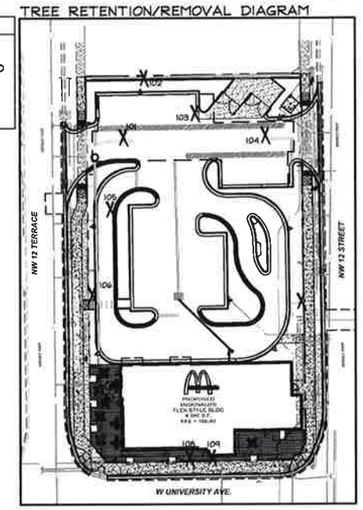
- = EXISTING TREE TO BE REMOVED
- = EXISTING TREE TO REMAIN

(*)TREE NOTE:

TREE IS NOT RECOMMENDED TO BE PLANTED ANY CLOSER TO THE END OF ISLAND THAN DEPICTED FOR TWO REASONS.

1. PROXIMITY TO CURB TO MINIMIZE INTERACTION AND IMPROVE HEALTH.
2. SIGN VISIBILITY.

TREE RETENTION/REMOVAL DIAGRAM

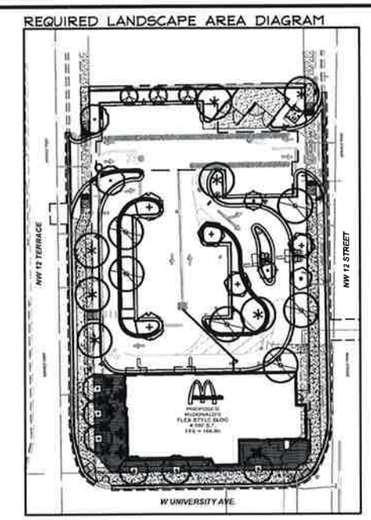


Tree Retention Data					
CPH Job No. M29955 - McDonald's Macs Relo					
Tree No.	Species	Status	Save/Remove	Replacement Requirements	Tree Credit
101	13" Oak	Regulated	Remove	2 trees per Urban Forestry Dept.	
102	32" Oak	Regulated/Heritage	Remove	2 trees per Urban Forestry Dept.	
103	13" Oak	Regulated	Remove	2 trees per Urban Forestry Dept.	
104	22" Oak	Regulated	Remove	2 trees per Urban Forestry Dept.	
105	15" Oak	Regulated	Remove	2 trees per Urban Forestry Dept.	
106	14" Oak	Regulated	Remove	2 trees per Urban Forestry Dept.	
107	18" Oak	Regulated	Remove	2 trees per Urban Forestry Dept.	
108	10" Unknown	Regulated	Remove	2 trees per Urban Forestry Dept.	
109	10" Unknown	Regulated	Remove	2 trees per Urban Forestry Dept.	

TOTAL REPLACEMENT REQUIRED:
18 TREES

TOTAL REPLACEMENT PROVIDED:
20 CANOPY TREES PROPOSED

REQUIRED LANDSCAPE AREA DIAGRAM



MINIMUM LANDSCAPE AREA

REQUIRED LANDSCAPE AREA = SITE AREA: 27,945 X 20% =	5,589 SF
PROPOSED LANDSCAPE AREA WITHIN PROPERTY LINE =	4,442 SF
PROPOSED LANDSCAPE AREA IN R.O.W. =	1,178 SF
TOTAL PROPOSED AREA TO BE LANDSCAPED =	5,620 SF

PERIMETER LANDSCAPE AREA
516 L.F/50LF = 10.32 TREES REQUIRED
11 TREES PROPOSED

INTERIOR LANDSCAPE
1 LANDSCAPE ISLAND/10 SPACES
24 SPACES/10 = 2.4 LANDSCAPE ISLANDS REQUIRED
2.4 INTERIOR LANDSCAPE AREA SHADE TREES REQUIRED
6 INTERIOR LANDSCAPE AREA SHADE TREES PROVIDED

PLANT LIST

SYM.	COMMON NAME	BOTANICAL NAME	DESCRIPTION	QTY
TREES				
BN	RIVER BIRCH	BETULA NIGRA 'DURA HEAT'	45 GAL., 3" CAL.(3 STEMS @ 1" CAL. EACH), 8' MIN. HT., 4' SPRD	3
IN	NELLIE STEVENS HOLLY	ILEX 'NELLIE STEVENS'	2.5" CAL., , 7' MIN. HT., 3' MIN. SPRD.	1
FA	AMERICAN ASH	FRAXINUS AMERICANA	4" CAL., 20' MIN. HT., 10' SPRD, 8' C.T.	2
IA	EAGLESTON HOLLY	ILEX x ATTENUATA 'EAGLESTON'	4" CAL., 7' C.T., 3' MIN. SPRD., STANDARD	3
LT	TULIP POPLAR	LIRIODENDRON TULIPIFERA	4" CAL., 20' MIN. HT., 10' SPRD, 8' C.T.	6
QVI	HIGH RISE OAK	QUERCUS VIRGINIANA 'HIGH RISE'	4" CAL., 20' MIN. HT., 10' SPRD, 8' C.T.	7
SP	CABBAGE PALM	SABAL PALMETTO	12' MIN. C.T.	2
UA	WINGED ELM	ULMUS ALATA	4" CAL., 20' MIN. HT., 10' SPRD, 8' C.T.	8
EX	EXISTING TREES	EXISTING TREES	VARIES	
HEDGE / ACCENT				
LJI	HOWARD LIGUSTRUM	LIGUSTRUM JAPONICUM 'HOWARDI'	7 GAL., 3' MIN. HT., 24" MIN. SPRD., 3' O.C.	88
LJ2	WAX LEAF LIGUSTRUM	LIGUSTRUM JAPONICUM	25 GAL., 5' MIN. HT, 3' MIN. SPRD., 3' O.C.	42
RF	FORMOSA AZALEA	RHODODENDRON 'FORMOSA'	3 GAL., 18" HT x 16" SPRD., 30" O.C.	40
SHRUBS / GROUNDCOVER				
AG	EDWARD GOUCHER ABELIA	ABELIA GRANDIFLORA 'EDWARD GOUCHER'	3 GAL., 16" MIN. HT., 14" SPRD., 30" O.C.	171
LEG	EMERALD GODDESS	LIRIOPE MUSCARI 'EMERALD GODDESS'	1 GAL., FULL, 18" O.C.	457
RC	CARPET ROSE	ROSA CARPET ROSE	APPLEBLOSSOM, 3 GAL., 10"HTx15"SPD, 24"O.C.	71
DT	BLUEBERRY FLAX LILY	DIANELLA TASMANICA 'VARIEGATA'	1 GAL., FULL, 18" O.C.	147
VO	MRS. SCHILLER'S DELIGHT	VIBURNUM OBOVATUM 'MRS. SCHILLER'S DELIGHT'	3 GAL., 16" MIN. HT., 14" MIN. SPRD., 30" O.C.	57
ZP	COONTIE	ZAMIA PUMILA	3 GAL., 12" MIN. HT, 14" MIN. SPRD., 30" O.C.	198
SOD	ST. AUGUSTINE GRASS	STENOTAPHRUM SECUNDATUM	SOLID SOD, CONTRACTOR TO VERIFY QTY.	

NOTES:

PLANT DESCRIPTIONS ARE FOR MINIMUM ACCEPTABLE SPECIFICATIONS. ALL CRITERIA LISTED FOR CONTAINER SIZE, CALIPER, HEIGHT, SPREAD, ETC. MUST BE MET FOR PLANT MATERIAL ACCEPTANCE. FOR EXAMPLE, IF A THREE GALLON SHRUB DOES NOT MEET THE HEIGHT OR SPREAD SPECIFICATION, IT WILL NOT BE ACCEPTED.

IF SPECIFIED PLANTS ARE UNAVAILABLE AT TIME OF CONSTRUCTION, CONTRACTOR MAY REPLACE SPECIFIED PLANTS WITH PLANTS APPROVED BY LANDSCAPE ARCHITECT AND CITY STAFF.

ALL OPEN SPACE AREAS WITHIN THE PROPERTY SHALL BE SODDED UNLESS PAVED, SEEDED AND MULCHED OR PLANTED WITH SHRUBS AND GROUND COVER.

ALL LANDSCAPED AREAS WILL BE 100% IRRIGATED WITH A CENTRAL AUTOMATIC IRRIGATION SYSTEM INCLUDING A RAIN SENSOR.

MULCH ALL DISTURBED AREAS WITH A THREE (3) INCH MINIMUM LAYER OF PINE BARK MULCH EXCEPT IN THE RETENTION AREAS PINE STRAW IS REQUIRED.

ALL PLANT MATERIAL SHALL BE GUARANTEED ONE YEAR AFTER ACCEPTANCE BY OWNER.

LANDSCAPE CONTRACTOR SHALL CALL PLANNING SERVICES AT (352) 393-8188 TO SCHEDULE AN ON-SITE MEETING PRIOR TO PURCHASING ANY PLANT MATERIAL.

ALL TREES IN SOD TO BE IN A (4) FOOT MINIMUM-MULCHED RING AROUND THE NEWLY PLANTED TREES.

ALL TREES PLANTED IN SOD TO HAVE (10) INCH PLASTIC PROTECTOR AROUND TRUNK BASE TO PROTECT FROM MOWING DAMAGE.

TREES SHALL BE PLANTED SO THAT THE TRUNK FLARE IS EXPOSED AND TOPMOST ROOT IN THE ROOTBALL ORIGINATING FROM THE TRUNK IS AT SOIL SURFACE OR WITHIN THE TOP INCH OF SOIL ON THE ROOTBALL.

THE CITY SHALL REQUIRE THE ROOTBALL/CONTAINER SIZE OF THE TREE, WHICH TAKES PRECEDENCE OVER THE CALIPER SIZE OF THE TREE.

REMOVAL OF ALL CONSTRUCTION DEBRIS, LIMEROCK, EXCESS OF BUILDERS SAND, CONCRETE AND MORTAR DEBRIS, EXISTING WEEDS AND GRASSES, AND ALL FOREIGN MATERIALS IN THE PLANTING BED AND SOD AREAS SHALL BE REMOVED AND 36" OF CLEAN FLORIDA FILL OF PH 5.5-6.5 SHALL BE INSTALLED PRIOR TO ANY INSTALLATION OF PLANTS OR TREES.

CALL PLANNING SERVICES AT (352) 393-8188 TO SCHEDULE A BARRICADE INSPECTION BEFORE CLEARING AND GRUBBING WORK COMMENCES.

AUTOMATIC IRRIGATION SYSTEM IS REQUIRED FOR THIS DEVELOPMENT,AND PROVIDE BUBBLERS BY EACH TREE TO BE INSTALLED TOO.

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No.	Date	Revision	By
1	04-18-16	PER CITY COMMENTS	MDS

Designed by:	JKW
Drawn by:	RES
Checked by:	MDS
Approved by:	MDS
Scale:	1"=20'
Date:	8-18-15
Job No.:	M29955
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Arch. Lic. No. AA26000926
Landscp. Lic. No. LC0000298

LANDSCAPE PLAN

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CITY OF GAINESVILLE / FLORIDA

Sheet No.
L-1

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LANDSCAPE NOTES:

1. The Landscape Contractor shall be responsible for all materials and all work as called for on the Landscape Plans and in the Landscape Specifications. In the event of variation between quantities shown on plant list and the plans, the plans shall control. The Landscape Contractor shall verify all quantities and report any discrepancies at the time of bidding.
2. The Landscape Contractor shall review architectural/engineering plans and become thoroughly familiar with surface and subsurface utilities.
3. Prior to construction, the contractor shall be responsible for locating all underground utilities and shall avoid damage to all utilities during the course of the work. Locations of existing buried utility lines shown on the plans are based upon best available information and are considered to be approximate. It shall be the responsibility of the contractor 1) to verify the locations of utility lines within or adjacent to the work area 2) to protect all utility lines during the construction period 3) to repair any and all damage to utilities, structures, site appurtenances, etc. which occurs as a result of the construction 4) To field adjust the location of proposed trees and palms 10' off the center of the utility lines. Notify the Landscape Architect if a 10' offset does not function.
4. The work shall be coordinated with other trades to prevent conflicts. Coordinate the planting with the irrigation work to assure availability and proper location of irrigation items and plants.
5. Contractor shall ensure that there are no visual obstructions to vehicle lines of sight and traffic controls. Contractor shall field adjust tree and/or large shrub locations to avoid any such obstructions.
6. Trees shall be maintained by the owner to avoid future such obstructions by pruning trees and/or shrubs as necessary utilizing horticulturally sound techniques.
7. All planting shall be performed by personnel familiar with planting procedure and under the supervision of a qualified planting foreman.
8. All plant material shall be graded Florida No. 1 or better as outlined under Grades and Standards for Nursery Stock, Part I and II, published by the Florida Department of Agriculture and Consumer Services.
9. The Landscape Architect or Owner shall have the right, at any stage of the operations, to reject any and all work and materials which, in his opinion, do not meet with the requirements of these specifications.
10. Except as otherwise specified, the Landscape Contractor's work shall conform to accepted horticultural practices as used in the trade.
11. The minimum acceptable size of all plants, measured after pruning, with branches in normal positions, shall conform to the measurements specified on the plant list or as indicated on the landscape drawing. Height and spread dimensions refer to main body of the plant and not extreme branch tip to tip. Trunk caliper (trunk diameter) is measured 6 inches from the ground on trees up to and including 4 inches in caliper, and 12 inches from the ground for larger trees. Since trunks are seldom round, the average of the largest diameter and that perpendicular to it is referred to as caliper.
12. Plants shall be protected upon arrival at the site, by being thoroughly watered and properly maintained until planted.
13. All tree pits shall be excavated to size and depth in accordance with the Florida Grades & Standards for Nursery Stock, unless shown otherwise on the drawings, and backfilled with the specified planting soil. The Landscape Contractor shall test fill all tree pits with water before planting to assure proper drainage percolation is available.
14. The Landscape Contractor shall be responsible for proper watering of all plants. All plants shall be thoroughly watered at time of planting and kept adequately watered until time of acceptance. It shall be the Landscape Contractor's responsibility to ensure that plants are not over watered.
15. It shall be the Landscape Contractor's responsibility to prevent plants from falling or being blown over; to re-straighten and replant all plants which lean or fall and to replace all plants which are damaged due to lack of proper guying or staking. The Landscape Contractor shall be legally liable for any damage caused by instability of any plant material.
16. All Palms to be staked as indicated per Palm staking details. All other trees to be stabilized utilizing 8' lodge poles per tree planting details.
17. Plants blown over by high winds, within the guaranteed period, shall not be cause for additional expense to the Owner, but shall be the responsibility of the Landscape Contractor. Damaged plants shall be replaced by the Landscape Contractor at no additional cost to the Owner.
18. Sod shall be of a species specified on the drawings and originate from a commercial turf grower. It shall be a dense stand of the turf, reasonably free of weeds, well matted with grass roots in rectangles 12 inch by 24 inch or in 12 inch side rolls in a length consistent with the equipment and methods used to handle the rolls and place the sod. Any netting contained within the sod shall be certified by the manufacturer to be bio-degradable. The soil and root mat shall be a minimum of 1-1/2 inch thick and must hold together during placement. Sod shall be place adjacent to one another to avoid gaps and overlaps. Joints shall be staggered between the rows. Sod placed on slopes exceeding 3:1 shall be pinned with turf staples. Sod turf, shall have been mowed a minimum of one week prior to cutting and delivery, so that the length of the turf is no larger than 4 inches at time of delivery. Place sod within 48 hours of cutting the sod. The sod shall be kept moist throughout the 48 hour period to maintain the health and viability of the sod. Submit a letter of certification to the Owner's CEI Representative, at time of delivery, as to the source of the sod, the time it was cut, the species and cultivar provided, last mowing date, and that the sod is free of fire ants. Sod which has been cut for longer than 48 hours after being cut shall not be used unless specifically authorized by Owner's CEI Representative.
It shall be the Contractor's responsibility to measure and determine the exact quantity of sod required for a complete job at the time of bidding or providing a price quote. The Owner shall not be responsible for additional cost due to the Contractor's under estimating of the quantity of sod for the original bid area.
19. The Landscape Contractor shall insure adequate vertical drainage in all plant beds, planters, and sod areas. Vertical drilling through any compacted fill to native soil shall be accomplished to insure drainage. If well drained fill is required to assure positive drainage, this issue shall be brought up by the Landscape Contractor at time of bidding.
20. The Landscape Contractor shall insure that his work does not interrupt established or projected drainage patterns.
21. The Landscape Contractor shall prune, shape and remove dead foliage/limbs from existing plant material to remain. Confirm with the Landscape Architect or Owner the extent of work required at time of Bidding.
22. Mulch - All plant beds shall be top dressed with 4" shredded hardwood mulch (or approved equal).
23. Transplanted Material - The Landscape Contractor shall be responsible for determining and evaluating which plant materials are suitable for transplanting and shall verify this with the Landscape Architect or Owner. The Landscape Contractor shall take all reasonable, horticulturally acceptable measures to assure the successful transplanting of determined plant materials. The Landscape Contractor shall be responsible for replacing any relocated plant materials which die if such measures are not taken, as determined by the Landscape Architect or Owner. Replacement plants shall be of identical species and size if required.
24. MAINTENANCE PRIOR TO FINAL INSPECTION AND ACCEPTANCE:

    Maintenance shall commence after each plant is planted and the maintenance period shall continue until the job or specific phase of the job is accepted by the Landscape Architect or Owner. Extreme care shall be taken to instruct the Owner or his representatives in general maintenance procedures.

    Plant maintenance shall include watering, pruning, weeding, cultivating, mulching, tightening, and repairing of guys, replacement of sick or dead plants, resetting plants to proper grades or upright positions and restoration of the planting saucer and all other care needed for proper growth of the plants.

    During the maintenance period and up to the date of final acceptance, the Landscape Contractor shall do all seasonal spraying and/or dusting of trees and shrubs. Upon completion of all planting, an inspection for acceptance of work will be held. The Landscape Contractor shall notify the Landscape Architect or Owner for scheduling of the inspection 10 days prior to the anticipated date.

    At the time of the inspection, if all of the materials are acceptable, a written notice will be given by the Landscape Architect or Owner to the Landscape Contractor stating the date when the Maintenance Period ends.

    GUARANTEE AND REPLACEMENT:

    All plant materials shall be guaranteed for one (1) year from the time of final inspection and interim acceptance shall be alive and in satisfactory growth for each specific kind of plant at the end of the guaranteed period.

    At the end of the guarantee period, any plant required under this contract that is dead or not in satisfactory growth, as determined by the Owner or the Landscape Architect, shall be removed and replaced. Replacement plants shall have an extended guarantee, as noted above, from time of replacement.

    All replacements shall be planted of the same kind and size as specified on the plant list. They shall be the responsibility of the Landscape Contractor.
25. TOPSOIL

    Topsoil shall be natural, friable, fertile, fine loamy soil possessing characteristics of representative topsoil in the vicinity that produces heavy growth. Topsoil shall have a pH range of 5.5 to 7.4, free from subsoil, objectionable weeds, litter, sods, stiff clay, stones larger than 1-inch in diameter, stumps, roots, trash, toxic substances, or any other material which may be harmful to plant growth or hinder planting operations. Top soil shall contain a minimum of three percent organic material.
26. UNSUITABLE SUBSOILS

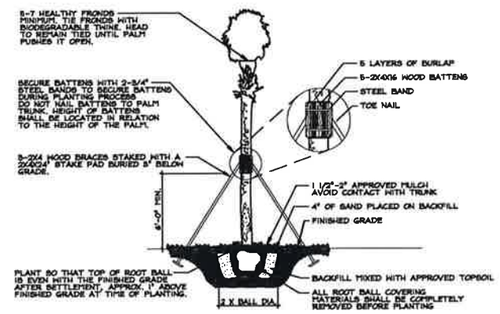
    Locations containing unsuitable subsoil shall be treated by one or more of the following:

    A. Where unsuitability is deemed by Owner or Owner's Representative to be due to excessive compaction caused by heavy equipment and where natural subsoil is other than AASHTO classification of A6 or A7, loosen such areas with spikes, discing, or other means to loosen soil to condition acceptable to Owner. Loosen soil to minimum depth of 12 inches with additional loosening as required to obtain adequate drainage. Contractor may introduce peat moss, sand, or organic matter into the subsoil to obtain adequate measures shall be considered as incidental, without additional cost to Owner.

    B. Where unsuitability is deemed by Owner or Owner's Representative to be due to presence of boards, mortar, concrete, graded aggregate base, or other construction materials in sub grade and where natural subsoil is other than AASHTO classification of A6 or A7, remove debris and objectionable material. Such remedial measures shall be considered as incidental, without additional cost to Owner.

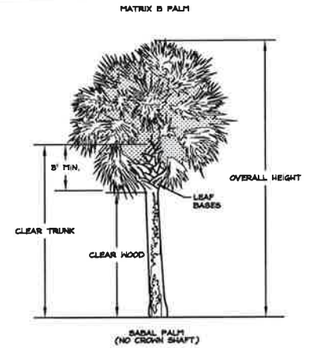
    C. Where unsuitability is deemed by Owner to be because natural subsoil falls into AASHTO classification of A6 or A7 and contains moisture in excess of 80 percent, then installation of sub drainage system or other means described elsewhere in Specifications shall be used. Where such conditions have not been known or revealed prior to planting time and they have not been recognized in preparation of The Drawings and Specifications, then Owner shall issue pricing order to install proper remedial measures.

    D. Planting beds where existing subsoil is determined by Owner to be unsuitable for plant growth in accordance paragraph Unsuitable Subsoil herein shall be excavated to a depth of 12 inches or as needed to provide adequate drainage. Replace excavated soil with planting soil.



PALM STAKING DETAIL

N.T.S.



ALL PALMS TO HAVE CLEAR WOOD INDICATED ABOVE UNLESS OTHERWISE SPECIFIED.

PALM HEIGHT/TRUNK SPECIFICATIONS

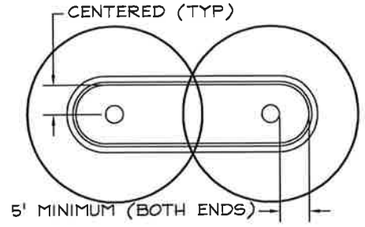
OVERALL HEIGHT(OA):
HIGHEST POINT IN THE CANOPY MEASURED FROM THE SOIL LINE TO THE NATURAL POSITION OF THE LAST FULLY EXPANDED LEAF, UNLESS SPECIFIED DIFFERENTLY, THE TERM HEIGHT, OR HEIGHT MEASUREMENTS SPECIFIED, WILL BE CONSIDERED OVERALL HEIGHT.

CLEAR TRUNK(CT):
A MEASUREMENT FROM THE SOIL LINE TO A POINT IN THE CANOPY WHERE THE TRUNK CALIPER BEGINS TO TAPER ABRUPTLY. ON MANY PALMS, THIS POINT WILL LIE AT THE BASE OF THE PETICLE OF THE THIRD OR FOURTH YOUNGEST BUT FULLY EXPANDED LEAF.

CLEAR WOOD(CW):
A MEASUREMENT FROM THE SOIL LINE TO THE HIGHEST POINT OF THE TRUNK FREE OF PERSISTENT LEAF BASES. ON PALMS WITH A CROWN SHAFT, THE MEASURE WILL BE FROM THE SOIL LINE TO THE BASE OF THE CROWN SHAFT. IT SHOULD BE NOTED THAT PALMS WITH VERY PERSISTENT LEAF BASES MAY NOT HAVE CLEAR WOOD.

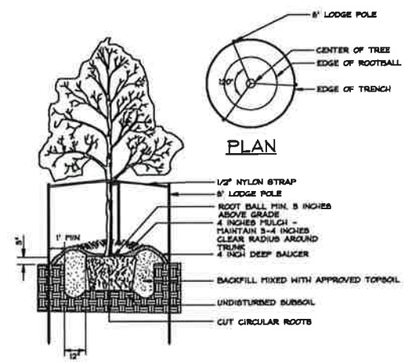
DPI INSPECTION NOTES(REQUIRED)

D.P.I. PALM INSPECTION NOTE:
ALL PALMS SHALL HAVE A VALID AND CURRENT STATE OF FLORIDA, DIVISION OF PLANT INDUSTRY (DPI) INSPECTION CERTIFICATION PRIOR TO BEING TRANSPORTED TO THE CONSTRUCTION SITE. THE DPI CERTIFICATION MUST BE SUBMITTED TO CPH AND A COPY OF THIS CERTIFICATION MUST BE PROVIDED TO THE GENERAL CONTRACTOR AND MAINTAINED WITH THE CONSTRUCTION RECORDS.



TYPICAL ISLAND PLANTING

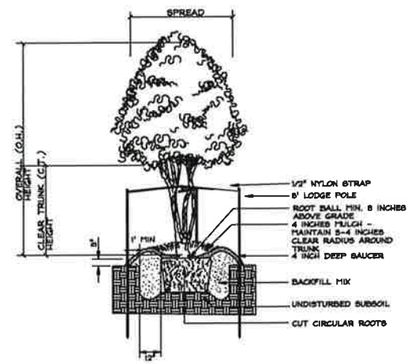
ALL TREES PLANTED IN LANDSCAPE ISLANDS OR ANY LANDSCAPED AREAS SHOULD BE A MINIMUM OF 5' OFF OF BACK OF CURB UNLESS ABSOLUTELY NECESSARY DUE TO UTILITY LINES/PIPES LOCATION.



NOTE: SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.

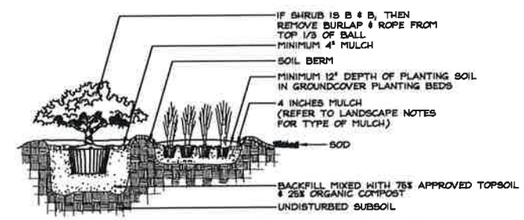
CONTAINER TREE PLANTING DETAIL

N.T.S.



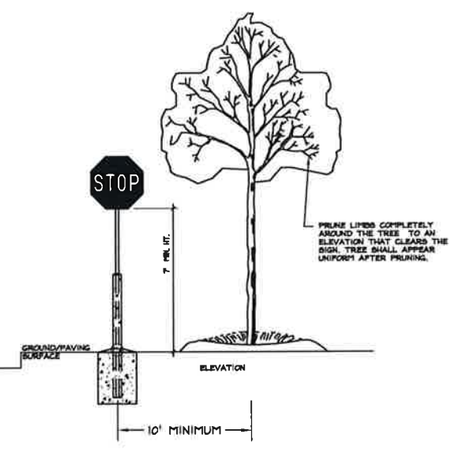
MULTI-TRUNK CONTAINER TREE PLANTING DETAIL

NTS



SHRUB AND GROUNDCOVER PLANTING DETAIL

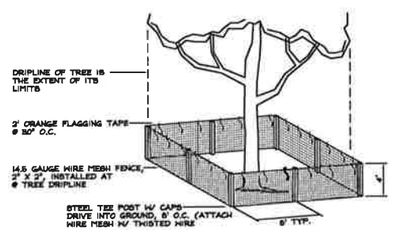
NTS



ALL TREES TO BE PLANTED NO CLOSER THAN 10' IN ALL DIRECTIONS FROM ANY TRAFFIC SIGNS

TREE PLANTING @ TYPICAL SIGN

NTS

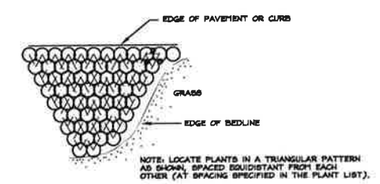


TREE PROTECTION DETAIL

N.T.S.

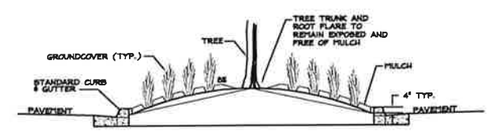
TREE PROTECTION NOTES:

1. Four (4) foot high solid orange construction fencing shall be installed encompassing the drip line of each tree, or one foot in diameter for each inch of trunk diameter, whichever is greater. When surveyed fencing shall be moved to the edge of the tree protection area (TPA) as indicated on plans and be maintained through completion of construction.
2. Where the fencing occurs within 10 feet of the tree trunk, a trenching device shall be used to sever tree roots. Root raking shall not occur before roots have been clearly severed.
3. All equipment and/or materials are prohibited within the TPA. Including but not limited to cement wash-out, chemicals, fuel or equipment servicing.
4. Grade changes shall not occur within the TPA. No fill shall be added, removed or stored within the TPA with exception of prescribed potting soil (see item 10).
5. Brush and weeds occurring within the TPA shall be cleared by hand or utilizing only the mower of a light wheeled farm tractor (less than 60 hp). During such activities soil profiles shall not be disturbed.
6. Rototilling, disking, root raking or other clearing methods that disturb the soil profile are expressly prohibited.
7. Utility lines and/or irrigation lines shall not occur within the TPA.
8. Dead trees shall be pruned to remove dead and damaged wood, correct structural defects and to provide access and visibility.
9. Pruning shall be completed under direct observation by the Designated Forester of CPH Engineers, Inc. or owner designated ISA certified arborist and be accomplished by an arborist with five years or more experience pruning live oaks to ISA standards. Arborist must obtain approval from the owner prior to commencement of pruning activities. Two week advance notification is required.
10. Landscaping within TPA shall not disturb existing soil profiles. Eight inches of potting soil shall be imported and evenly spread to provide a planting medium within TPA.



SHRUB/GROUNDCOVER SPACING PLAN

N.T.S.



TYPICAL LANDSCAPE ISLANDS

NTS

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Sunshine811.com

McDONALD'S PROJECT CODE: 009-2618

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Offices In:
• Florida
• Puerto Rico
• Connecticut
• Maryland
• Texas

No.	Date	Revision	By
1	04-18-16	PER CITY COMMENTS	MDS

Designed by:	JKW
Drawn by:	RES
Checked by:	MDS
Approved by:	MDS
Scale:	N/A
Date:	8-18-15
Job No.:	M29955

© 2016

Plans Prepared By:
CPH, Inc.
5200 Belfort Rd., Suite 220
Jacksonville, FL 32256
Ph: 904.332.0999
Licensee:
Eng. C.O.A. No. 3215
Survey L.B. No. 7143
Arch. Lic. No. AA2600026
Landscp. Lic. No. LC0000298

LANDSCAPE NOTES AND DETAILS

McDonald's®

MACS RELO
CITY OF GAINESVILLE / FLORIDA

Sheet No.
L-2

J:\M29955\Landscape\DWG\Preliminary\Design\Plans\M29955-L-SP.dwg Apr 15, 2016 - 1:59pm rsmith

AD-16-2 SPL
McDonald's
1206 W University Ave

VP-S

Viper (Small)

SITE/ROADWAY

FEATURES

- The Beacon Viper luminaire is available in two sizes with a wide choice of different LED wattage configurations and optical distributions designed to replace HID lighting up to 1000W MH or HPS and with 5 different mounting options for application in a wide variety of new and existing installations.
- Each Viper luminaire is supplied with an one piece optical cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel.
- A thermal circuit, LIFESHIELD™, shall protect the luminaire from excessive temperature by interfacing with the 0-10V dimmable drivers to reduce drive current as necessary.
- Aluminum thermal clad board with 0.062" thick aluminum base layer, thermally conductive dielectric layer, 0.0014" thick copper circuit layer circuit layer designed with copper pours to minimize thermal impedance across dielectric.

ORDERING INFORMATION

VP-S - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ]

MODEL

VP-S	Viper (Small)

CCT-COLOR TEMP

5K	5000° K (std.)
4K	4000° K
3K	3000° K

VOLTAGE

UNV	120-277V
347	347V
480	480V

MOUNTING OPTIONS

RA	Rectangular Arm
SF2	2⅜" OD Slipfitter
PK2	2⅜" Adjustable Knuckle
WB	Wall Bracket

COLOR

BBT	Basic Black Textured
BMT	Black Matte Textured
WHT	White Textured
MBT	Metallic Bronze Textured
BZT	Bronze Textured
GYS	Gray Smooth
DPS	Dark Platinum Smooth
GNT	Green Textured
MST	Metallic Silver Textured
MTT	Metallic Titanium Textured
OWI	Old World Iron
_RAL	

ENGINE-WATTS

22NB-50	50 Watts
22NB-70	70 Watts
30NB-70	70 Watts
30NB-90	90 Watts

OPTICS

T2	Type II
T3	Type III
T4	Type IV
T5R	Rectangular
T5QM	Sq. Medium
T5W	Round Wide

ELECTRICAL OPTIONS

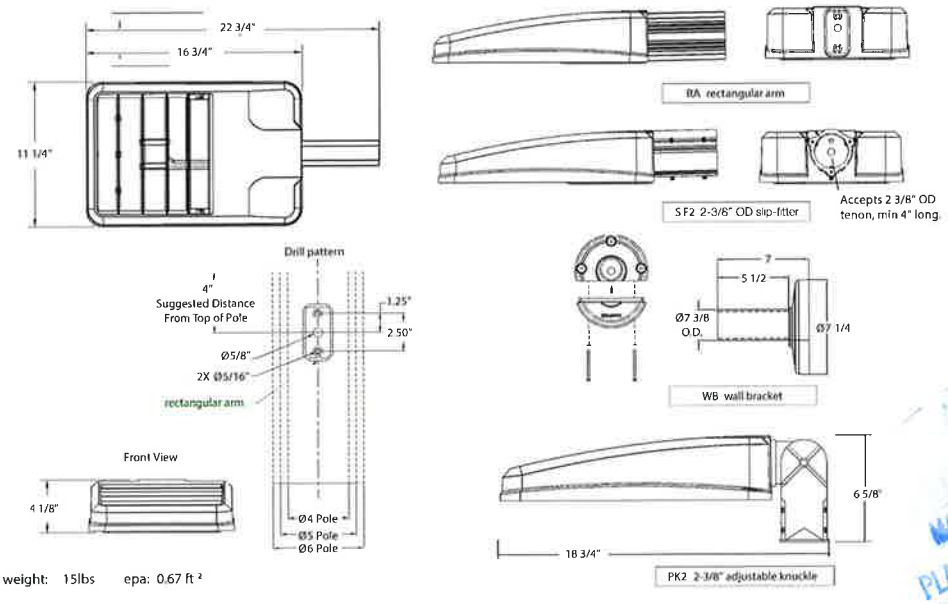
PCR-TL	Photocell, Twist-lock
PCR-SC	Photocell, Shorting Cap
NP	No Photocontrol
2PF	Dual Power Feed [1, 2]

STANDARD ELECTRICAL OPTIONS

Lifeshield™ Thermal Protection
20K-Surge Protection [3]
Dimming Drivers

[1] Not available **30NB-90**
[2] Not available @ **347/480V** input
[3] Not available @ **347V** input

DETAILS



weight: 15lbs epa: 0.67 ft²

RECEIVED MAY 3 2016 PLANNING DIVISION

VP-S

Viper (Small)

SITE/ROADWAY

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_RAL	

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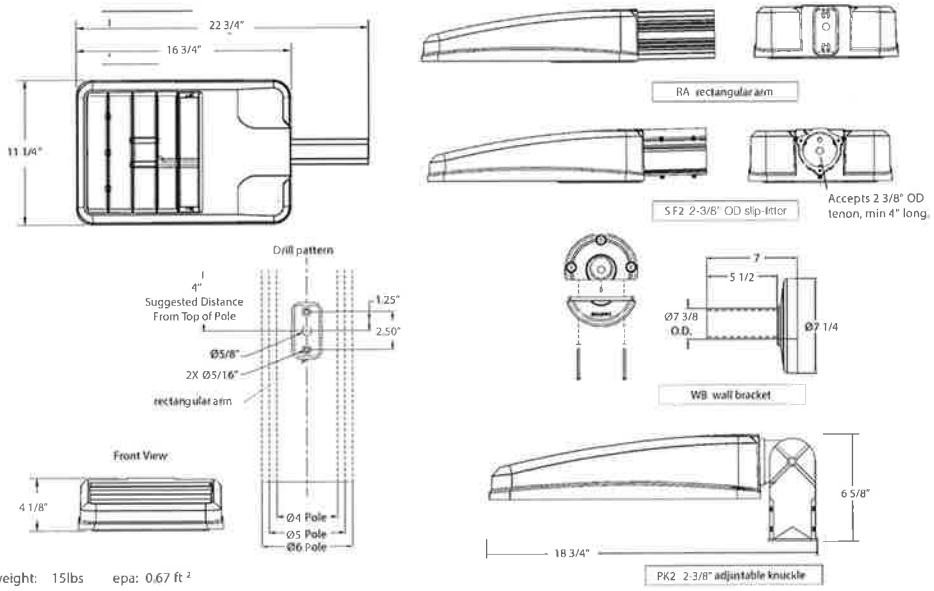
DETAILS



weight: 15lbs epa: 0.67 ft²

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McDonald's
1206 W University Ave

IES ROAD REPORT
PHOTOMETRIC FILENAME : VP-L-96NB-280-5K-T4.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 1148116
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 8/27/2015
[MANUFAC] BEACON PRODUCTS
[LUMCAT] VP-L-96NB-280-5K-T4
[LUMINAIRE] LARGE VIPER
[LAMP] C-70-CRI
[MORE] DATA SHOWN IS ABSOLUTE

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	29129
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	284.52
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	19611.801
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	19611.801
Maximum Candela Angle (<90 Degrees Vertical)	45H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	6703.1 (23.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2028.7	N.A.	7.0
FM - Front-Medium (30-60)	9503.0	N.A.	32.6
FH - Front-High (60-80)	11620.8	N.A.	39.9
FVH - Front-Very High (80-90)	943.7	N.A.	3.2
BL - Back-Low (0-30)	1096.9	N.A.	3.8
BM - Back-Medium (30-60)	2159.9	N.A.	7.4
BH - Back-High (60-80)	1560.8	N.A.	5.4
BVH - Back-Very High (80-90)	214.9	N.A.	0.7
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	29128.7	N.A.	100.0
BUG Rating	B3-U0-G5		

Photometric Toolbox Professional Edition - Copyright 2002-2011 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES ROAD REPORT
PHOTOMETRIC FILENAME : VP-L-96NB-280-5K-T4.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	60.0	62.5	65.0
0.0	9018.400	9018.400	9018.400	9018.400	9018.400	9018.400	9018.400	9018.400	9018.400	9018.400
2.5	9166.100	9209.500	9183.400	9149.100	9120.100	9042.400	8928.300	8884.900	8849.400	8811.800
5.0	9031.400	9056.300	9023.600	8939.200	8834.000	8647.200	8426.800	8322.400	8269.900	8201.600
7.5	8670.500	8651.000	8595.400	8444.500	8232.400	7923.000	7591.700	7426.300	7357.300	7289.800
10.0	7979.600	7921.600	7863.500	7709.000	7478.600	7150.500	6749.600	6548.200	6450.200	6368.400
12.5	7115.400	7066.500	7053.400	6906.200	6777.700	6482.100	6055.000	5836.600	5724.100	5614.000
15.0	6287.700	6258.300	6301.700	6210.200	6174.100	5920.800	5487.800	5242.000	5119.400	4992.800
17.5	5568.100	5573.900	5691.600	5614.400	5535.900	5287.400	4885.300	4661.100	4556.000	4458.200
20.0	5024.000	5044.000	5171.900	5038.200	4966.000	4764.300	4374.900	4145.700	4026.200	3931.400
22.5	4553.500	4601.300	4712.700	4536.900	4486.900	4340.100	4026.200	3804.900	3679.300	3563.200
25.0	4163.500	4247.300	4284.300	4109.500	4091.800	4010.100	3728.800	3525.400	3412.400	3299.400
27.5	3874.600	3965.800	3923.200	3776.600	3862.600	3810.600	3471.800	3291.600	3195.700	3100.400
30.0	3681.100	3771.400	3678.700	3579.400	3890.000	3887.100	3331.200	3161.800	3086.500	3010.300
32.5	3570.700	3658.100	3574.600	3559.000	4247.100	4322.300	3426.900	3219.000	3152.200	3095.100
35.0	3611.200	3702.900	3666.000	3770.500	4898.800	5045.900	3771.000	3498.500	3416.700	3371.700
37.5	3881.900	3971.700	4016.400	4288.600	5902.000	6078.200	4397.200	4036.700	3927.600	3881.200
40.0	4385.300	4484.900	4627.100	5095.200	7175.700	7302.800	5248.100	4783.400	4659.200	4587.000
42.5	5120.600	5271.800	5510.500	6212.300	8625.000	8653.800	6273.600	5684.000	5535.400	5430.500
45.0	6238.400	6474.700	6733.400	7651.700	10203.40	10076.20	7414.000	6705.900	6500.400	6351.900
47.5	7725.800	8026.000	8305.100	9373.200	11912.00	11587.50	8640.700	7799.000	7504.700	7307.800
50.0	9356.600	9662.500	9942.400	11148.80	13611.60	13088.40	10027.90	8988.900	8632.400	8382.300
52.5	10802.50	11066.60	11393.00	12679.40	15032.70	14447.10	11487.00	10342.20	9950.000	9631.700
55.0	11915.90	12153.20	12538.80	13902.40	16257.30	15641.40	12757.90	11539.20	11082.80	10710.600
57.5	12598.80	12802.50	13204.60	14848.60	17297.90	16098.60	13882.40	12623.40	12074.40	11608.200
60.0	12857.40	12965.60	13414.40	15604.80	17320.50	14896.90	14181.80	13446.80	12819.80	12256.200
62.5	12619.50	12685.80	13395.40	16016.80	16818.19	14992.20	13771.80	14004.60	13428.10	12858.400
65.0	12315.80	12526.70	13508.50	16193.40	17461.80	17670.10	14106.40	14389.30	14236.00	13843.400
67.5	12814.20	13050.40	14106.60	16480.50	19462.60	19611.80	14635.00	13989.60	14080.50	14154.800
70.0	11857.90	12505.00	14138.00	16236.60	19409.60	17699.19	13524.70	12863.20	12802.90	13001.500
72.5	10927.60	11133.60	12757.00	14643.20	16487.60	14340.70	11372.90	11729.50	11536.00	11575.000
75.0	9451.200	9663.500	10969.00	12568.30	13320.70	12367.40	9814.200	10480.60	10347.80	10213.200
77.5	7213.600	7205.300	8751.200	10005.20	10109.60	9612.700	8324.800	8499.500	8662.300	8584.300
80.0	4688.400	4645.300	5757.100	6703.100	6277.800	5699.600	5309.500	5583.400	5562.900	5715.900
82.5	2444.600	2330.800	3107.800	3754.800	3312.600	3063.200	2999.500	3260.500	3160.300	3326.400
85.0	1111.300	1027.400	1258.100	1581.800	1318.700	1142.400	1253.800	1455.000	1446.000	1438.800
87.5	300.200	283.000	346.300	379.600	424.600	396.300	286.400	353.200	362.300	354.100
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles	**Horizontal Angles**									
	67.5	**70.0**	**72.5**	**75.0**	**77.5**	**80.0**	**82.5**	**85.0**	**87.5**	**90.0**
0.0	9018.400	9018.400	9018.400	9018.400	9018.400	9018.400	9018.400	9018.400	9018.400	9018.400
2.5	8779.400	8757.600	8738.500	8705.900	8677.700	8634.500	8616.900	8594.800	8567.700	8520.300
5.0	8140.500	8076.500	8038.000	7979.000	7942.000	7857.700	7812.200	7776.900	7725.800	7653.600
7.5	7200.100	7118.600	7056.200	6983.100	6945.400	6847.600	6778.000	6726.900	6650.900	6573.200
10.0	6268.000	6169.800	6077.300	5992.400	5917.600	5823.600	5726.200	5645.600	5555.600	5468.200
12.5	5513.900	5396.300	5284.300	5175.600	5072.500	4967.100	4855.200	4750.000	4643.300	4543.200
15.0	4882.900	4753.900	4639.300	4519.100	4415.500	4296.600	4181.600	4072.400	3968.200	3870.400
17.5	4356.300	4242.600	4125.100	4002.000	3901.500	3788.700	3683.200	3584.200	3490.400	3406.100
20.0	3849.900	3771.700	3692.300	3604.800	3523.200	3430.800	3344.000	3256.900	3169.100	3088.900
22.5	3460.100	3373.600	3310.700	3256.400	3210.700	3145.000	3069.500	2986.900	2899.000	2819.500
25.0	3188.600	3086.600	3014.200	2973.600	2946.100	2902.400	2847.200	2778.900	2704.300	2660.000
27.5	2996.300	2897.800	2825.600	2792.400	2780.500	2766.400	2736.000	2692.400	2652.000	2630.600
30.0	2927.800	2849.100	2784.700	2753.600	2747.100	2740.600	2719.300	2684.200	2663.300	2683.200
32.5	3031.700	2980.500	2925.200	2887.900	2863.300	2840.200	2805.400	2773.500	2778.900	2848.900
35.0	3319.200	3288.100	3232.100	3198.600	3161.900	3116.600	3045.400	3000.900	3021.800	3114.600
37.5	3824.800	3780.800	3726.700	3680.900	3628.200	3542.700	3424.500	3348.600	3370.000	3457.200
40.0	4514.400	4457.000	4397.500	4321.300	4228.900	4079.200	3917.300	3809.400	3800.700	3844.400
42.5	5330.800	5261.800	5152.600	5032.800	4872.700	4665.000	4465.700	4318.400	4265.000	4252.100
45.0	6206.500	6110.800	5950.400	5777.900	5553.500	5294.500	5043.500	4835.000	4720.200	4654.600
47.5	7140.200	7000.400	6788.100	6542.600	6254.600	5945.000	5642.400	5365.000	5175.800	5046.300
50.0	8183.800	7982.100	7710.800	7364.600	6990.000	6613.200	6240.000	5899.100	5641.100	5446.200
52.5	9365.900	9099.700	8737.500	8291.500	7789.800	7315.500	6871.800	6466.400	6133.100	5843.000
55.0	10360.80	10008.80	9566.800	9032.700	8439.500	7898.000	7403.800	6937.600	6536.600	6174.600
57.5	11165.40	10697.90	10157.60	9533.000	8870.600	8257.600	7695.500	7164.200	6704.500	6298.000
60.0	11727.30	11126.90	10465.60	9767.000	9038.400	8348.600	7703.300	7125.700	6625.700	6158.000
62.5	12226.00	11316.30	10424.20	9651.300	8871.900	8133.800	7458.800	6834.900	6280.600	5756.400
65.0	12981.80	11363.50	10031.60	9170.200	8405.900	7674.400	7000.200	6372.000	5780.100	5205.700
67.5	13272.40	11013.60	9220.600	8314.500	7614.400	6939.200	6303.200	5677.800	5024.000	4370.500
70.0	12293.90	9949.300	8077.100	7185.600	6546.800	5950.600	5372.300	4765.800	4120.900	3436.300
72.5	10887.70	8679.900	7028.300	6171.800	5585.500	5064.200	4523.000	3937.200	3316.600	2708.900
75.0	9565.600	7643.300	6268.400	5454.200	4899.000	4400.000	3867.700	3300.000	2711.000	2136.000
77.5	7980.300	6574.100	5499.600	4778.000	4281.900	3847.000	3341.000	2777.400	2229.100	1673.300

CANDELA TABULATION - (Cont.)

80.0	5423.400	4543.100	3745.700	3284.500	3066.500	2866.600	2533.400	2096.800	1681.500	1261.300
82.5	3415.000	2769.700	2129.300	1876.900	1933.500	2017.600	1843.000	1484.600	1152.300	907.700
85.0	1548.100	1415.500	1200.200	1084.900	1061.800	1153.000	1180.100	948.300	672.300	482.100
87.5	368.100	358.700	291.000	274.300	346.800	384.800	387.400	328.800	252.600	154.900
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles	**Horizontal Angles**									
	92.5	**95.0**	**97.5**	**100.0**	**102.5**	**105.0**	**107.5**	**110.0**	**112.5**	**115.0**
0.0	9018.400	9018.400	9018.400	9018.400	9018.400	9018.400	9018.400	9018.400	9018.400	9018.400
2.5	8505.900	8490.400	8472.300	8455.600	8417.400	8408.900	8393.900	8387.400	8360.600	8327.600
5.0	7608.700	7562.500	7518.900	7485.300	7403.400	7361.500	7305.600	7282.300	7224.800	7173.800
7.5	6491.400	6417.600	6335.400	6272.200	6185.800	6096.700	6018.200	5961.700	5900.000	5827.300
10.0	5363.200	5272.000	5161.500	5067.600	4972.200	4873.300	4780.100	4707.100	4650.900	4567.600
12.5	4434.400	4327.500	4207.000	4104.200	4012.000	3935.600	3841.800	3776.100	3703.300	3629.900
15.0	3767.400	3664.700	3554.700	3469.800	3391.400	3322.100	3228.500	3149.200	3050.900	2972.300
17.5	3323.100	3236.700	3139.400	3054.500	2973.400	2887.400	2789.900	2688.000	2586.500	2494.600
20.0	3009.800	2917.300	2813.000	2715.400	2639.400	2562.000	2470.000	2354.700	2246.400	2138.800
22.5	2745.000	2668.200	2591.400	2509.800	2431.400	2340.000	2224.700	2100.500	1981.100	1873.700
25.0	2631.500	2587.900	2513.500	2428.100	2339.200	2232.500	2103.700	1967.500	1837.600	1727.800

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CANDELA TABULATION - (Cont.)

27.5	2617.400	2597.500	2559.300	2498.000	2405.100	2268.500	2102.600	1933.300	1779.900	1658.800
30.0	2734.200	2779.000	2776.300	2709.300	2582.200	2403.800	2192.100	1973.300	1767.300	1611.700
32.5	2963.000	3066.400	3096.400	3037.700	2886.600	2658.100	2383.500	2086.100	1807.300	1605.500
35.0	3272.700	3425.300	3473.000	3399.000	3233.000	2970.400	2629.700	2239.500	1898.400	1644.300
37.5	3617.900	3783.800	3810.000	3704.700	3517.200	3229.500	2827.500	2377.900	1986.200	1692.900
40.0	3973.900	4101.900	4055.100	3909.900	3719.000	3417.800	2980.800	2488.800	2051.600	1729.700
42.5	4342.300	4424.500	4297.100	4093.500	3888.400	3563.900	3083.900	2535.500	2048.700	1695.200
45.0	4691.700	4739.600	4545.000	4281.400	4054.200	3707.600	3182.400	2574.500	2040.300	1659.600
47.5	5013.700	5034.100	4774.300	4461.000	4224.600	3865.500	3288.000	2617.300	2038.600	1637.300
50.0	5337.700	5330.200	5004.100	4650.900	4414.300	4058.500	3452.000	2735.400	2114.500	1687.500
52.5	5639.200	5538.900	5117.700	4725.800	4504.100	4147.900	3531.200	2795.400	2168.200	1747.700
55.0	5878.100	5675.600	5156.500	4734.600	4512.700	4146.500	3514.800	2766.700	2128.200	1715.300
57.5	5970.500	5728.600	5172.300	4786.900	4576.600	4197.700	3555.900	2802.300	2172.700	1717.800
60.0	5790.000	5518.300	4986.600	4724.900	4588.700	4203.500	3563.000	2848.800	2244.500	1810.000
62.5	5349.200	5015.800	4504.500	4350.800	4304.000	3977.400	3391.300	2742.600	2194.000	1821.900
65.0	4751.500	4356.600	3822.800	3744.200	3779.900	3553.900	3073.300	2523.500	2071.000	1780.500
67.5	3909.500	3529.200	2982.200	2961.400	3064.600	2951.500	2616.800	2208.800	1888.900	1693.500
70.0	2673.700	2257.400	2038.400	2190.500	2352.200	2341.600	2144.700	1868.400	1662.200	1542.400
72.5	2041.100	1614.200	1315.000	1585.300	1853.800	1918.900	1803.900	1612.300	1448.700	1401.200
75.0	1556.300	1309.400	1035.600	1236.900	1551.000	1682.000	1578.600	1427.800	1297.400	1247.500
77.5	990.100	940.600	882.800	1020.100	1302.600	1459.300	1379.300	1272.300	1172.000	1103.100
80.0	787.700	740.400	743.600	835.300	1002.700	1160.100	1148.700	1076.100	980.800	897.200
82.5	579.500	525.600	549.200	611.600	688.200	817.500	862.200	825.800	774.700	701.300
85.0	309.900	315.200	335.100	372.800	416.200	476.700	508.700	496.300	499.200	494.500
87.5	109.800	133.400	141.400	157.100	166.400	182.900	188.100	177.200	180.600	191.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles	**Horizontal Angles**								
	117.5	**120.0**	**125.0**	**135.0**	**145.0**	**155.0**	**165.0**	**175.0**	**180.0**
0.0	9018.400	9018.400	9018.400	9018.400	9018.400	9018.400	9018.400	9018.400	9018.400
2.5	8313.600	8317.300	8299.500	8243.500	8183.000	8092.300	8094.400	8107.400	7897.800
5.0	7111.700	7085.100	7037.700	6931.000	6835.600	6732.200	6680.100	6683.900	6513.300
7.5	5746.200	5691.600	5648.200	5549.800	5503.800	5401.900	5341.100	5319.800	5177.200
10.0	4508.700	4442.400	4370.500	4269.200	4236.400	4168.900	4138.400	4158.900	4058.600
12.5	3562.400	3488.800	3389.400	3280.400	3226.300	3171.000	3186.000	3263.600	3182.000
15.0	2885.000	2808.300	2688.400	2559.800	2530.400	2536.800	2602.200	2652.200	2598.000
17.5	2402.100	2314.100	2180.000	2036.600	2025.200	2155.300	2244.300	2274.200	2240.500
20.0	2047.700	1958.300	1822.900	1636.100	1683.200	1852.500	1958.600	1971.800	1930.600
22.5	1781.000	1694.900	1550.200	1359.300	1437.000	1576.600	1660.200	1683.500	1667.900
25.0	1634.900	1554.800	1408.600	1240.600	1249.500	1385.200	1497.400	1539.500	1530.700
27.5	1563.400	1490.100	1357.700	1224.200	1207.900	1257.000	1380.600	1435.300	1429.200
30.0	1501.300	1424.000	1311.700	1220.000	1202.600	1213.000	1256.000	1312.900	1311.900
32.5	1465.500	1374.500	1271.000	1177.300	1167.900	1164.700	1166.700	1203.200	1196.900
35.0	1473.100	1363.200	1243.700	1146.800	1148.800	1140.000	1129.000	1134.000	1129.200
37.5	1500.100	1377.400	1247.700	1159.900	1146.500	1133.600	1127.400	1119.400	1110.800
40.0	1522.000	1394.500	1260.000	1174.500	1150.100	1144.300	1151.800	1120.500	1102.200
42.5	1473.000	1339.500	1207.400	1106.000	1105.000	1110.400	1132.700	1088.700	1062.600
45.0	1421.900	1281.500	1139.000	1040.800	1063.900	1074.500	1100.700	1033.800	998.300
47.5	1398.100	1258.900	1111.800	991.800	1000.500	1022.200	1005.900	965.300	966.900
50.0	1440.400	1299.700	1145.100	1018.300	976.400	978.100	1021.300	1078.900	1095.400
52.5	1503.300	1367.400	1213.200	1047.800	1007.100	1028.100	1094.800	1194.300	1237.600
55.0	1493.800	1370.700	1236.400	1108.100	1099.700	1156.100	1245.200	1443.700	1510.400
57.5	1474.300	1359.500	1238.600	1115.800	1126.900	1216.100	1322.000	1502.800	1564.900
60.0	1570.200	1446.600	1303.500	1158.000	1187.900	1308.400	1454.900	1615.900	1652.000
62.5	1618.700	1497.700	1344.400	1187.400	1215.100	1363.500	1512.000	1598.900	1620.800
65.0	1615.100	1500.200	1321.000	1123.500	1109.200	1349.200	1515.500	1550.800	1563.800
67.5	1578.100	1482.100	1282.100	1009.700	1004.400	1290.100	1479.000	1466.900	1495.800
70.0	1476.500	1415.900	1230.500	891.800	895.400	1209.100	1509.600	1400.100	1448.200
72.5	1371.900	1331.500	1168.600	825.700	826.700	1147.000	1689.900	1355.200	1352.700
75.0	1261.400	1241.400	1065.600	732.800	738.700	1052.200	1426.200	1265.000	1135.100
77.5	1105.100	1110.700	943.300	615.800	641.100	916.100	1220.600	1132.700	981.800
80.0	884.200	882.500	798.500	499.300	550.000	785.700	1025.200	896.800	894.200
82.5	673.600	659.800	611.600	357.300	463.900	646.800	805.900	623.900	609.300
85.0	458.200	437.000	392.700	242.700	315.200	467.400	494.600	345.800	279.500
87.5	176.100	168.200	177.300	84.100	105.100	212.000	162.900	136.100	106.700
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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IES ROAD REPORT
PHOTOMETRIC FILENAME : VP-L-96NB-280-5K-T4.IES

CANDELA TABULATION - (Cont.)

115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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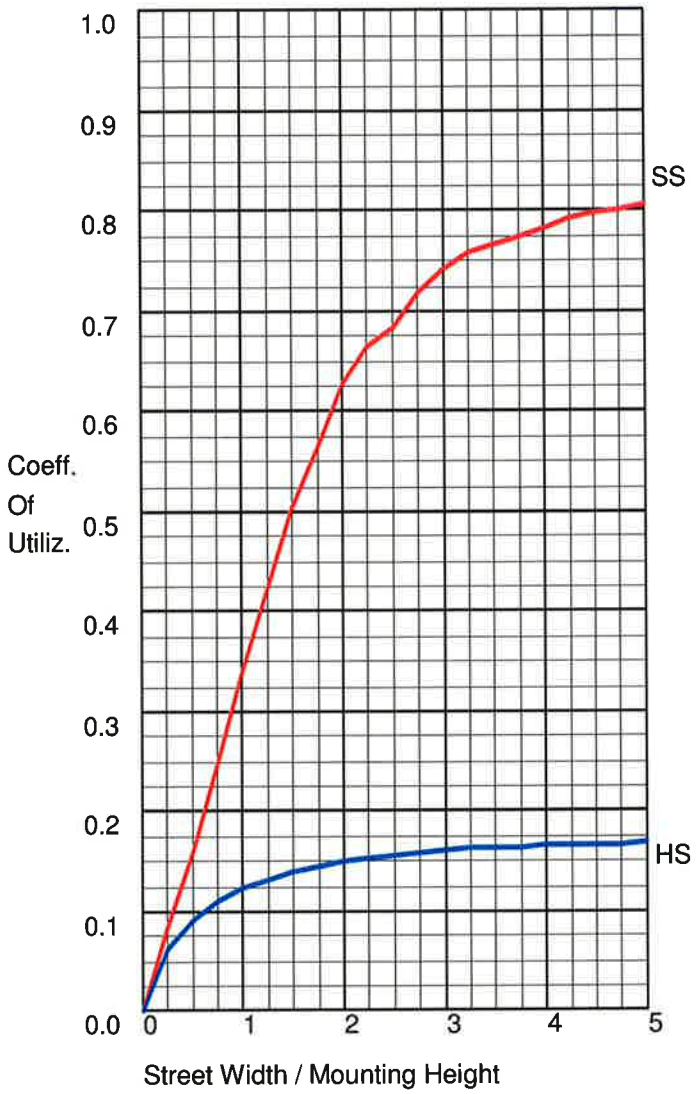
IES ROAD REPORT
PHOTOMETRIC FILENAME : VP-L-96NB-280-5K-T4.IES

COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	24096.2	82.7
Downward House Side	5032.5	17.3
Downward Total	29128.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	29128.7	100.0

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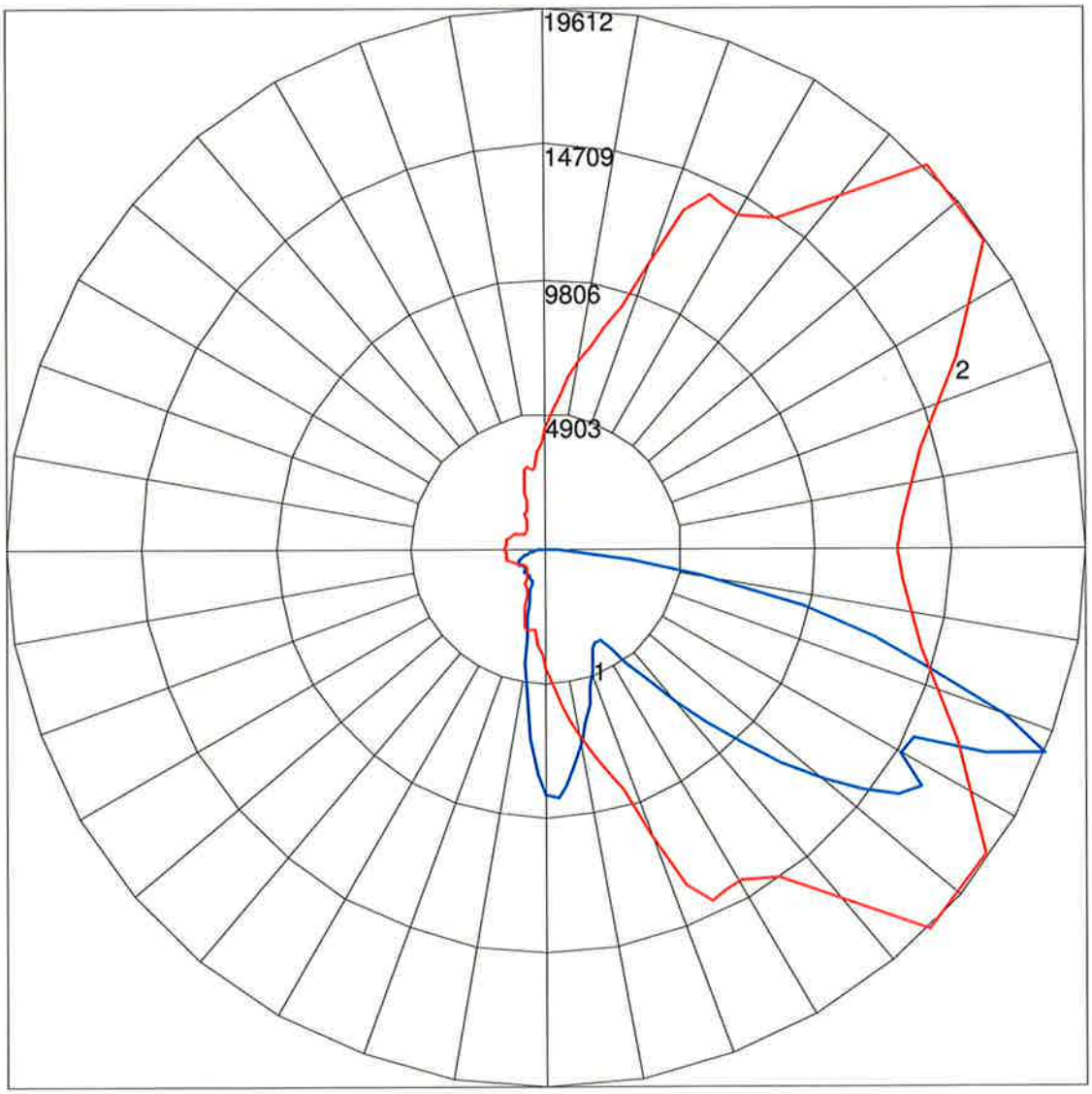
IES ROAD REPORT
PHOTOMETRIC FILENAME : VP-L-96NB-280-5K-T4.IES

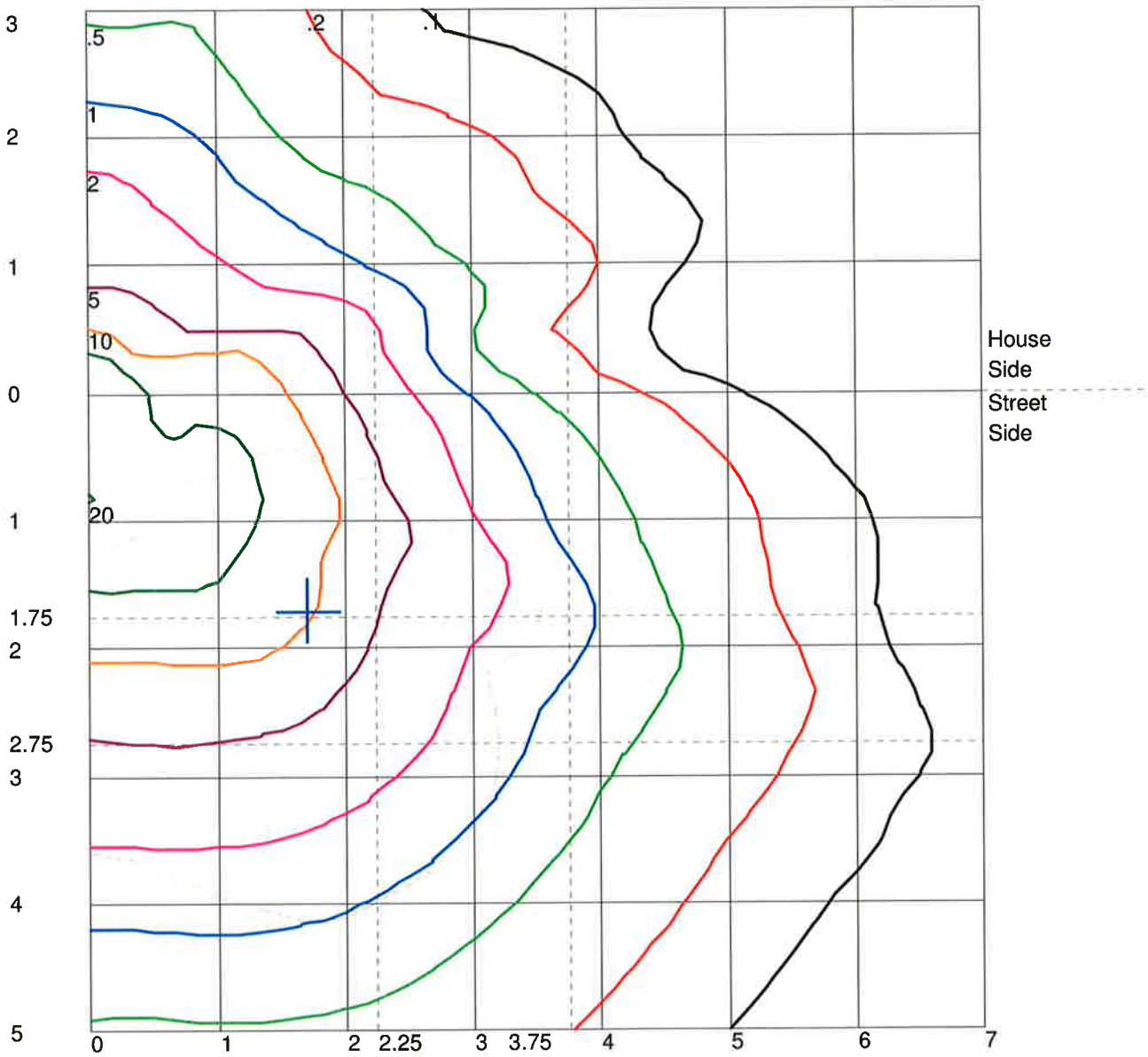
POLAR GRAPH



Maximum Candela = 19611.801 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

IES ROAD REPORT
PHOTOMETRIC FILENAME : VP-L-96NB-280-5K-T4.IES

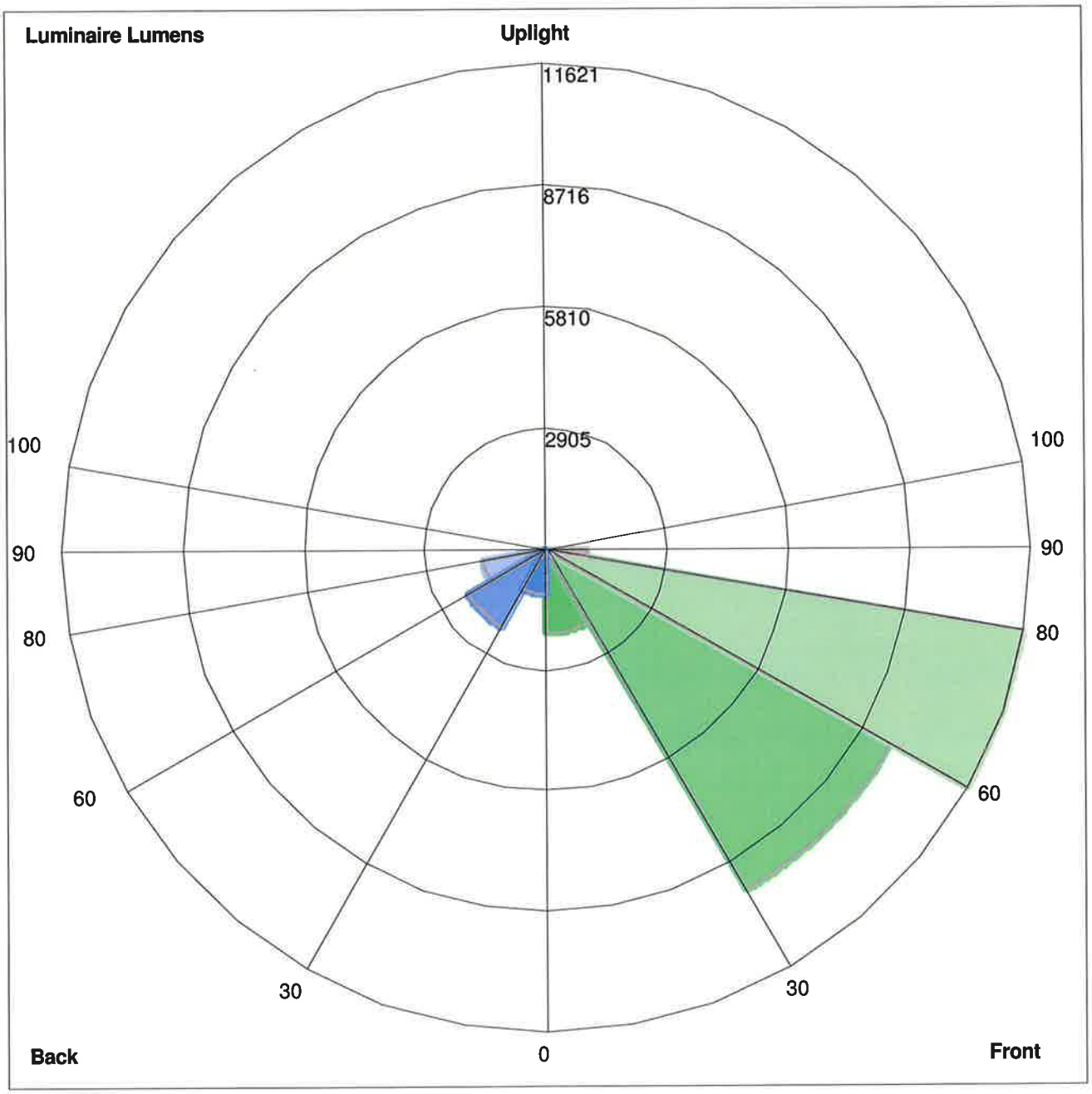
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

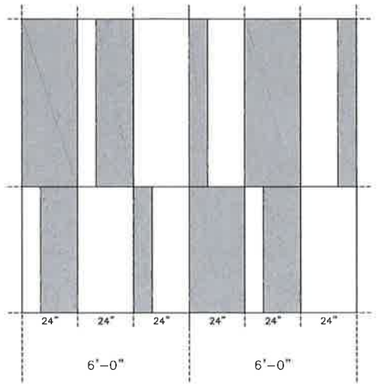
IES ROAD REPORT
PHOTOMETRIC FILENAME : VP-L-96NB-280-5K-T4.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH

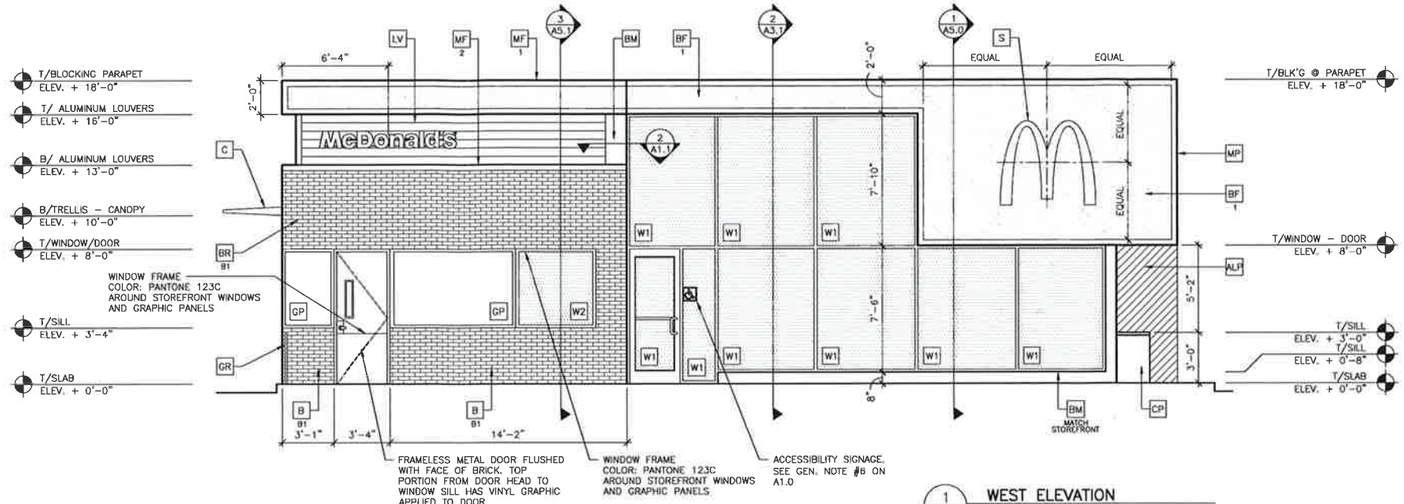


Luminaire Lumens:
Front: Low=2028.7, Medium= 9503.0, High=11620.8, Very High=943.7
Back: Low=1096.9, Medium=2159.9, High=1560.8, Very High=214.9
Uplight: Low=0.0, High=0.0

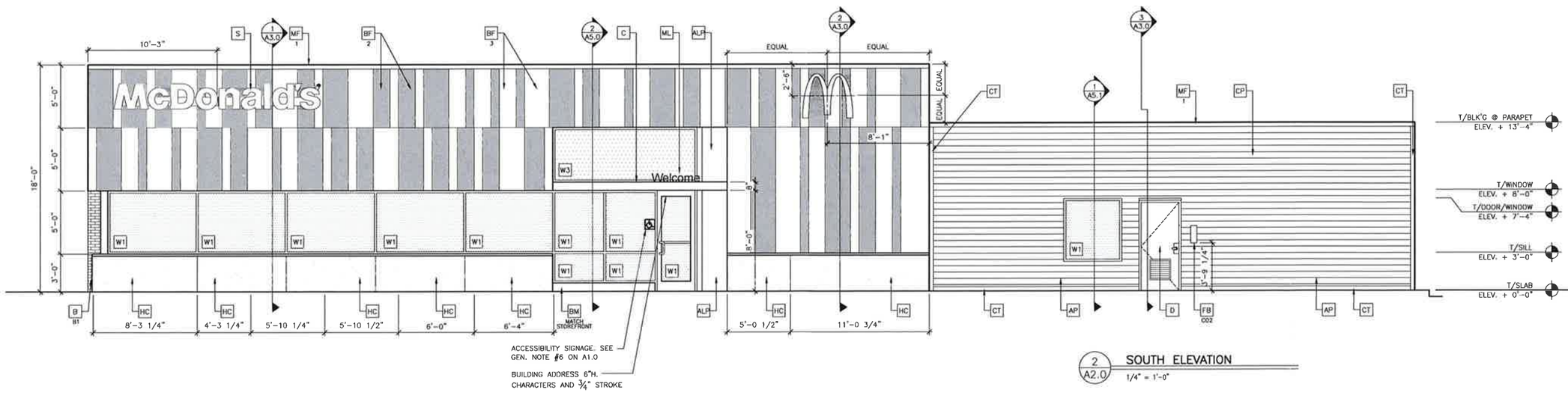
BUG Rating : B3-U0-G5



3 A2.0 MODULE STUCCO WALL PANEL



1 A2.0 WEST ELEVATION
1/4" = 1'-0"



2 A2.0 SOUTH ELEVATION
1/4" = 1'-0"

KEY NOTES:

- ALP — PAINTED ALUMINUM PANELS COLOR: PPG DURANAR SUNSTROM PANTONE 123C
- AP — RIBBED ALUMINUM PANEL – INSPIRE BY DRI-DESIGN SIZE: 4"x MAX W/ 1" HORIZONTAL SHADOW LINE COLOR: PPG DURANAR SUNSTROM SILVER GREY (UC99011F)
- B — FULL FACE BRICK – NORMAN RUNNING BOND COLOR: ENDICOTT BRICK #77 MEDIUM IRONSPOT SMOOTH FINISH
- BF — NEW STUCCO FINISH; TEXTURE TO MATCH EXISTING COLOR: 1 = BENJAMIN MOORE LOG CABIN BM-2163-10; 2 = TBD; 3 = TBD
- BM — BREAK METAL COLOR: TBD
- C — DRIVE-THRU CANOPY SYSTEM
- CJ — CONTROL JOINT – SEE DETAIL 7/A4.1
- CP — COLLIGATED PANEL COLOR: TBD
- CT — 3" ALUMINUM PANEL TRIM BY METAL AREA
- D — HOLLOW METAL DOOR – PAINT TO MATCH COLOR OF SURROUNDING MATERIAL
- FB — CO2-CO2 = BULK CO2 FILL BOX (EQPM SCHEDULE ITEM 49.00); BO = BULK OIL FILL BOX (EQPM SCHEDULE ITEM 700.18) CONFIRM USE WITH MCD PROJECT MANAGER
- GP — APPLIED LOCALIZED VINYL GRAPHIC PANELS COLOR: YELLOW FRAME
- GR — GUARD RAIL – SEE SITE PLAN FOREXACT LOCATION AND LENGTH
- HC — HARDCOAT STUCCO FINISH
- KB — KNOX BOX. LOCATED AT A HEIGHT OF NOT LESS THAN 6 FEET AND NOT MORE THAN 8 FEET ABOVE FINAL GRADE. INSTALL PER MANUFACTURES SPECIFICATIONS.
- L — LIGHT FIXTURE (WALL SCONCE) – SEE ELECTRICAL; L1 = UP AND DOWN FIXTURE; L2 = DOWN ONLY FIXTURE
- LV — EQUIPMENT SCREEN LOUVER SYSTEM COLOR: ABI AIR BALANCE AIS4
- MF — ALUMINUM FASCIA – COLOR TO MATCH RIBBED ALUMINUM PANEL – SEE 1/A5.4; 1 = PRE-FAB ANCHOR-TITE FASCIA; 2 = PRE-FAB MASONRY CAP FASCIA
- ML — METAL LETTERING – BY OTHERS
- MP — MODULAR METAL PANEL SYSTEM – CENTRIA INTERCEPT V-TRAC PANEL SYSTEM COLORS: PPG DURANAR SUNSTROM; 1. SILVER GREY (UC99011F); 2. SILVER (UC95401F); 3. YELLOW, MATCH PANTONE 123C
- PB — PIPE BOLLARD – PAINTED YELLOW, PANTONE 123C
- PT — (RMHC) COIN COLLECTOR #WPT DT2000 CMU CALL 1-888-743-7435 TO ORDER
- RO — ROOF OVERFLOW DRAIN PIPE PAINT TO MATCH SURROUNDING MATERIAL
- S — McDONALD'S SIGNAGE BY OTHERS – UNDER SEPARATE PERMIT.
- W1 — EXTERIOR WINDOW ASSEMBLY – TEMPERED GLASS – SEE ASSEMBLY NOTES SHEET A5.0
- W2 — DRIVE-THRU WINDOW BY READY ACCESS, 600 SERIES; 36" SERVICE HEIGHT WITH TRANSOM – MANUAL OPEN ELECTRONIC RELEASE; SLIDE DIRECTION: RL = RIGHT TO LEFT, LR = LEFT TO RIGHT
- W3 — EXTERIOR WINDOW ASSEMBLY – SPANDREL GLASS –

EUROWEST TILE PACKAGE:

INCLUDES: TILE, WATERPROOFING, SETTING MATERIAL, GROUT, INTIAL CLEANING

EUROWEST TILE: BRAND – IRIS CERAMICA; E-WOOD, PRODUCT: WHITE, SIZE: 36"x6"
FINISH: R9, LAYOUT PATTERN: STACK BOND

WATERPROOFING, SETTING MATERIAL AND GROUT: BY MAPEI
GROUT COLOR: ULTRA COLOR PLUS – 01 ALABASTER, GROUT WIDTH: 1/8" TO 3/16"

POST CONSTUCTION CLEANING: DETERDEK
*** POST INSTALLATION CLEANER IS REQUIRED ON ALL TILE APPLICATIONS. VERIFY CLEANING SOLUTION PRODUCT AND INSTRUCTIONS WITH MANUFACTURER.***

EUROWEST CONTACT: JAN DETER, (714) 937-7500

ADDITIONAL MATERIALS BY SCHLUTER SYSTEMS L.P.

OUTSIDE CORNERS
COLOR: SAND PEBBLE RONDEC RO100SP (COLOR COATED ALUMINUM)

MOVEMENT JOINTS:
COLOR: TO MATCH GROUT – SOFT JOINT

END OF TILE FIELD ABOVE ROOF AT ARCADE:
COLOR: SAND PEBBLE RONDEC RO100SP (COLOR COATED ALUMINUM)

SCHLUTER SYSTEMS L.P. CONTACT: EARL MAICUS, (518) 324-3410

GENERAL NOTES: TILE

REFERENCE 2013 TCNA HANDBOOK -EJ171 MOVEMENT JOINT GUIDELINES

1. LOCATION AND FREQUENCY OF JOINTS EXTERIOR: 8' TO 12' FEET IN EACH DIRECTION, OR AS INDICATED ON ELEVATIONS.
2. JOINT WIDTH: EXTERIOR: MINIMUM 3/8" FOR JOINTS 8' ON CENTER, MINIMUM 1/2" FOR JOINTS 12' ON CENTER.
3. PERIMETER JOINTS: – MOVEMENT JOINTS ARE REQUIRED WHERE TILE WORK ABUTS RESTRAINING SURFACES SUCH AS PERIMETER WALLS, AND GRADE. FLEXIBLE SEALANT AND COMPRESSIBLE BACK-UP WHEN REQUIRED OR BOND BREAKER TAPE. JOINT MATERIAL: URETHANE COLOR: TO MATCH TILE AND GROUT COLOR
4. TIE-BACK AND SIGNAGE ATTACHEMENT – PRE-DRILL TILE AND SLEEVE AND SEAL ALL ATTACHEMENT POINTS.

AD-16-2 SPL
McDonald's
1206 W University Ave

MAY 4 2016

REV	DATE	DESCRIPTION	BY

CERTIFICATION

JOSHUA BAUER AIA

PREPARED BY: cph — A FULL SERVICE A & E FIRM: Architects, Engineers, Environmental, Landscape Architects, LEED A.P., Planners, Surveyors, Traffic, Transportation © 2015
www.cphcorp.com
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McDonald's USA, LLC

DRAWN BY: BT/DP
STD ISSUE DATE: 2016 FEBRUARY
REVIEWED BY: JAB
DATE ISSUED: 02-10-16

TITLE: 2015 FLEXIBLE BUILDING MASONRY
DESCRIPTION: 8" MASONRY LOAD BEARING WALLS; STEEL JOIST ROOF FRAMING; STUCCO EXTERIOR FINISH – BRICK, ALUM. PANELS
SITE ID: 009-2618
SITE ADDRESS: 1206 W. UNIVERSITY AVENUE – W29955 GAINESVILLE, FLORIDA

SHEET NO. A2.0
EXTERIOR ELEVATIONS

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION

J:\W29955\Architecture\01_Architecture\092618_Permit_2015-06-10_Building_10_W29955_A2.0 Exterior Elevations.dwg May 04, 2016 – 4:23pm jmillard

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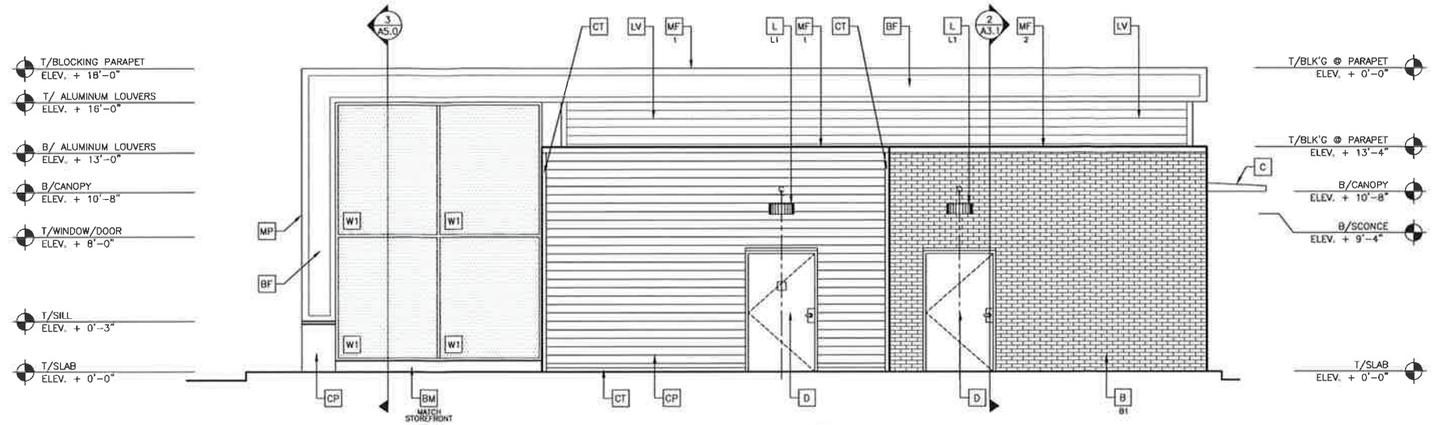
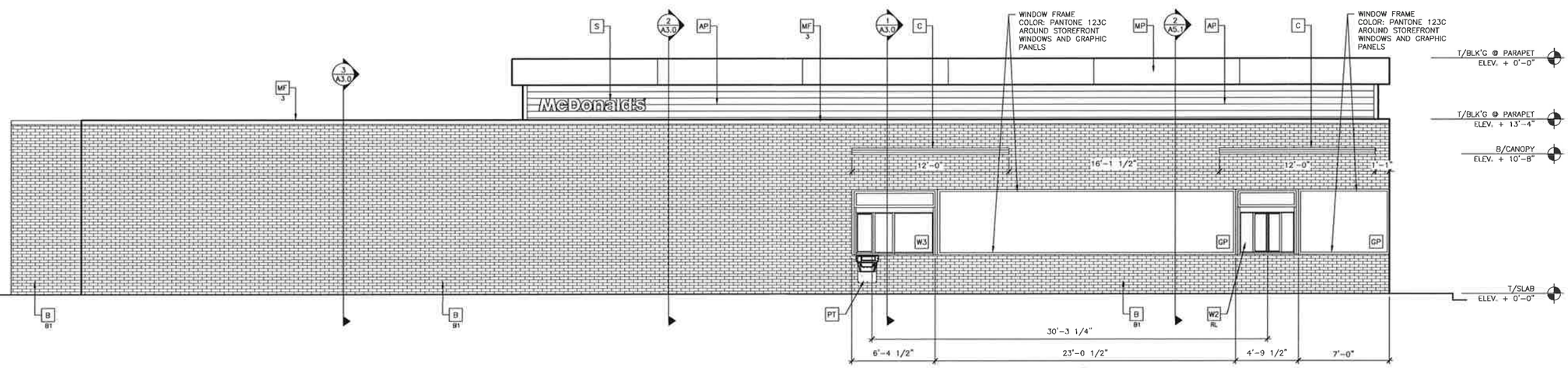


1 A2.1 EAST ELEVATION
1/4" = 1'-0"



2 A2.1 NORTH ELEVATION
1/4" = 1'-0"

KEY NOTES:

- ALP — PAINTED ALUMINUM PANELS
  COLOR: PPG DURANAR SUNSTROM PANTONE 123C
- AP — RIBBED ALUMINUM PANEL – INSPIRE BY DRI-DESIGN
  SIZE: 4"x MAX W/ 1" HORIZONTAL SHADOW LINE
  COLOR: PPG DURANAR SUNSTROM SILVER GREY (UC99011F)
- B — FULL FACE BRICK – NORMAN RUNNING BOND
  COLOR: ENDICOTT BRICK #77 MEDIUM IRONSPOT SMOOTH FINISH
- BF — NEW STUCCO FINISH; TEXTURE TO MATCH EXISTING
  COLOR:
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  XX
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   JOINT MATERIAL: URETHANE
   COLOR: TO MATCH TILE AND GROUT COLOR
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McDonald's
1206 W University Ave

REV	DATE	DESCRIPTION	BY

CERTIFICATION

JOSHUA BAUER AIA

Δ FULL SERVICE A & E FIRM
Architects
Engineers
Environmental
Landscape Architects
Planners
Surveyors
Traffic Engineers
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Tel 407 322-2171
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DRAWN BY BT/DP
STD ISSUE DATE 2016 FEBRUARY
REVIEWED BY JAB
DATE ISSUED 02-10-16

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