

DRIVE THRU SIDE ELEVATION

FRONT ELEVATION



REAR ELEVATION

SIDE ELEVATION

MAIN WALL COLOR
SHERWIN WILLIAMS
SW6099 SAND DOLLAR

ACCENT WALL COLOR
SHERVIN WILLIAMS
SW7536 BITTERSWEET STEM

TRIM ACCENT COLOR
SHERVIN WILLIAMS
SW7724 CANOE

TRIM ACCENT COLOR
SHERVIN WILLIAMS
SW6098 PACER WHITE

CORONADO STONE
OLD WORLD LEDGE
SUMMERLIN BLEND

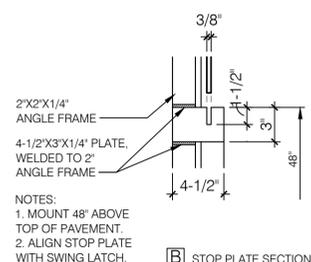
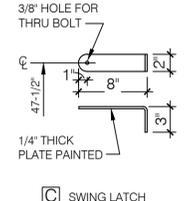
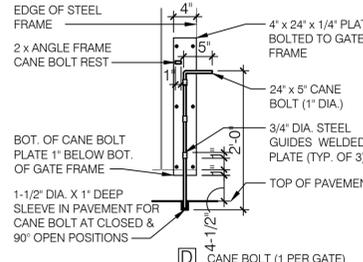
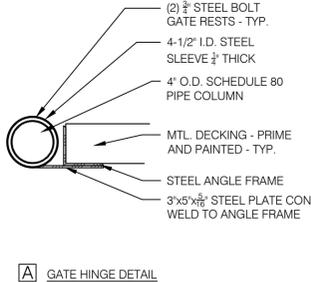
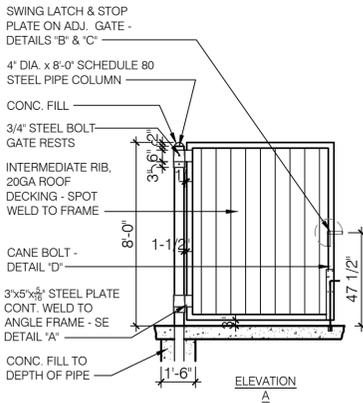
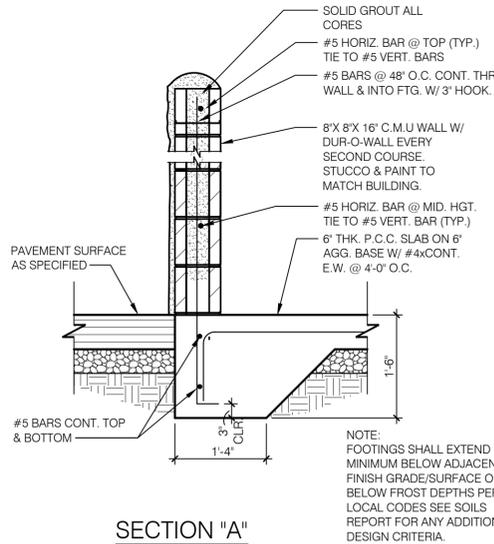
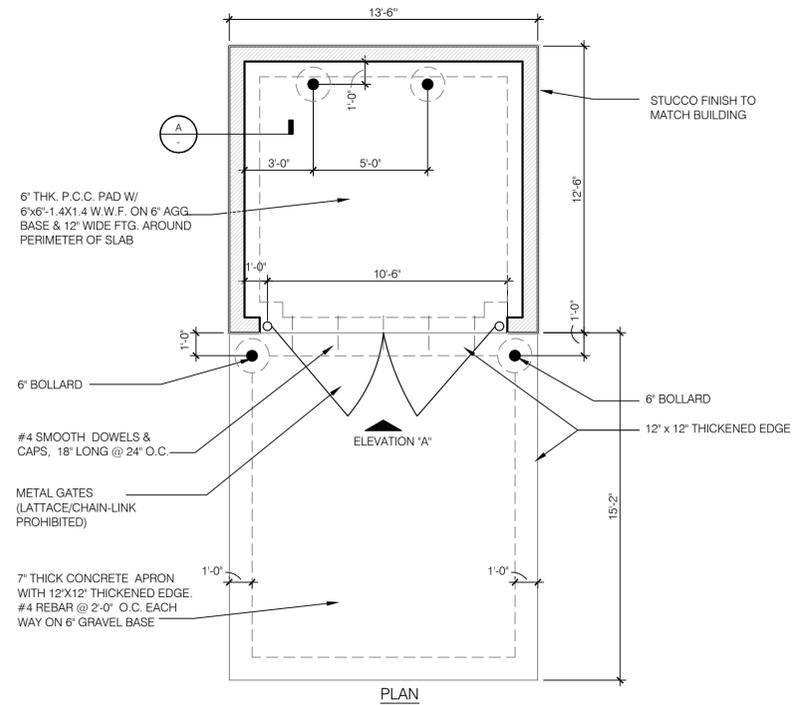
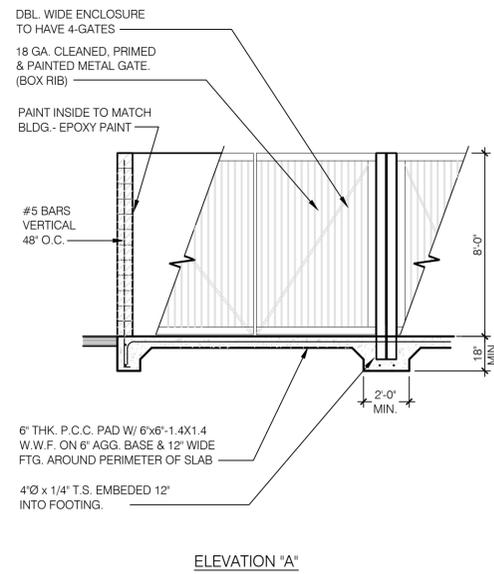
ROOF TILE
BORAL VILLA 900
GOLDENROD



DISCLAIMER: Due to the limitations of desktop scanners, printers, and other reproduction devices as well as the relative inconsistencies of various display monitors, the colors you see on your screen may not be a totally accurate reproduction of the actual product coloring. We strive to make our colors as accurate as possible, but screen images are intended as a guide only and should not be regarded as absolutely correct. It is recommended that paint samples and swatches obtained from the manufacturer be used in conjunction with this rendering to provide the most accurate representation possible.

Shoppes of Grande Oak
Estero, Florida 33928

LIS, LLC AA26002040
06-06-16
PROJECT NO. 2015-150



YCS001

WYATT HOWARD NELSON
ARCHITECTURE, PLLC

Valvoline Instant Oil Change
Shoppes of Grande Oak
Estero, FL 33928
EXTERIOR FINISHES

Fascia/Soffit/Trim/HM doors &frames

Manuf.: James Hardie
Color: SW7515 Homestead Brown (Sherwin Williams)
Texture: Smooth, wood grain



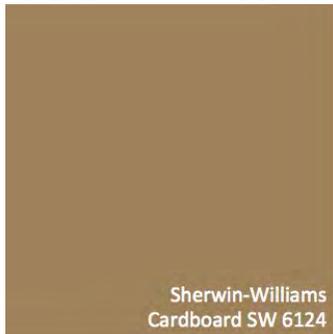
Stucco walls

Manuf.: Expo, Merex, La Habra
Color: SW6107 Nomadic Desert (Sherwin Williams)
Texture: Fine sand



Stucco wall trim

Manuf.: Expo, Merex, La Habra
Color: SW6107 Nomadic Desert (Sherwin Williams)
Texture: Fine sand



WYATT HOWARD NELSON
ARCHITECTURE, PLLC

Roof Tiles

Manuf.: Boral
Model: Spanish 'S' Nuevo
Color: Goldenrod



WYATT HOWARD NELSON
ARCHITECTURE, PLLC

Manufactured Stone 4'-0" wainscot
Manuf.: Coronado Stone
Model: Old World Ledge
Color: Summerlin Blend



Aluminum framing overhead door frames / aluminum entry framing & doors)
Manuf.: Kawneer or Equal
Color: Clear mill finish (silver)

Metal Bollards
Manuf.:
Color: SW Valvoline Red (Sherwin Williams)



WYATT HOWARD NELSON ARCHITECTURE, PLLC

VIOC PAINT SCHEDULE

Exterior

Block Filler/Primer
Bottom four rows of Block (2' 8")
Walls above 2' 8" (Gutters)
Fascia / mansard w/ new signs
Exterior Doors / Frames
Metal flashing (non-new image)
Bumper Posts / pylon pole
Area lights & poles

Metal Primer
Parking Striping

Handicap Parking
Wood Fence and Gates

Interior

Waiting Room
Office
Rest Rooms
Doors and frames
Ceilings
Service Bay (bottom 40") in lieu of FRF
Service Bay (above 40")
Lube Pit Steel
Stairs
Compressor Room
Exposed Steel @ pit openings / lifts
Drywall Primer
Metal Primer
Concrete Block
FRP Wall Panel Primer

Color

Tinted to match
SW6124 Cardboard
SW6107 Nomadic Desert
SW6107 Nomadic Desert
SW7515 Homestead Brown
SW6107 Nomadic Desert
Valvoline Red
Do not tint
Dark Bronze
Do not tint
White
Yellow
ADA Blue
SW6107 Nomadic Desert

Color

SW6107 Nomadic Desert
SW6107 Nomadic Desert
SW6107 Nomadic Desert
SW7515 Homestead Brown
Ceiling White
SW6107 Cardboard
SW6107 Nomadic Desert
Valvoline Red
Valvoline Red
Ultra White
Valvoline Red / Yellow
Tinted to match
Do not tint
Tinted to match
Do not tint

Finish

Semi Gloss
Semi Gloss

Finish

Gloss
Gloss

Products

Loxon Block Surfer A24W200
DTM Acrylic B66-200
DTM Acrylic B66-200
DTM Acrylic B66-200
Sher-Cryl HPA B66-300 Series
DTM Acrylic B66-200
Sher-Cryl HPA B66-300 Series & Sher Clear
DTM Bonding Primer B66A50
Sher-Cryl HPA B66-300 Series
Pro-Cryl Universal Primer B66-310 Series
TM226 Set Fast Traffic Marking Paint
TM226 Set Fast Traffic Marking Paint
TM2133 Set Fast Traffic Marking Paint
Cabot acrylic semi-solid stain 1400 series

Products

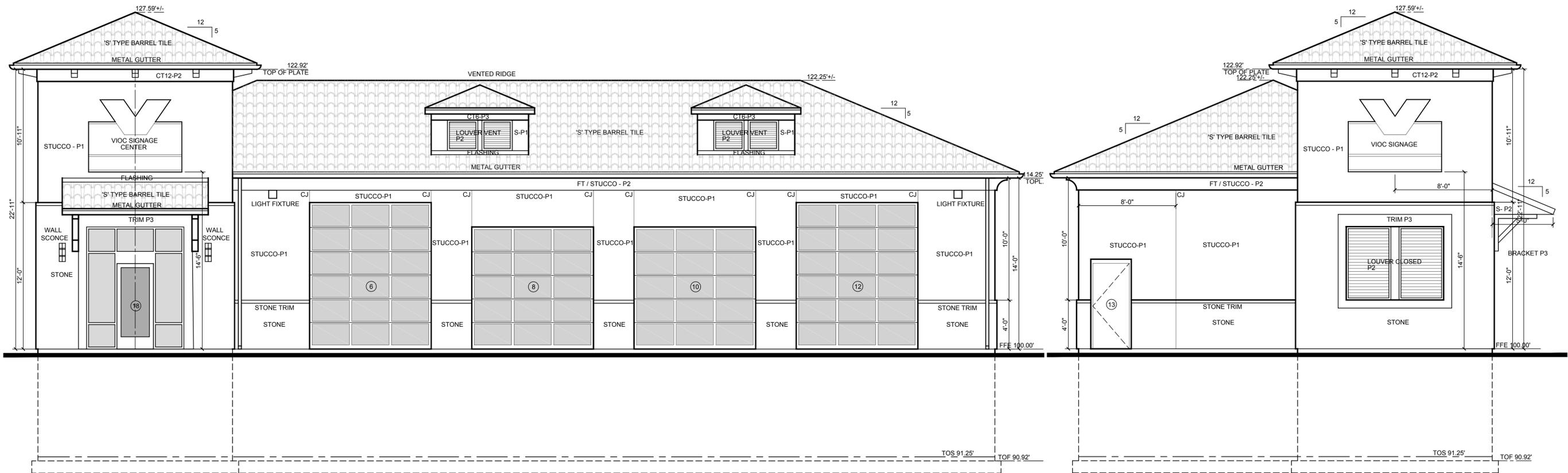
Water Base Industrial Enamel B53-300 Series
Water Base Industrial Enamel B53-300 Series
Water Base Industrial Enamel B53-300 Series
Sher-Cryl HPA B66-300 Series
Water Base Industrial Enamel B53-300 Series
Water Base Industrial Enamel B53-300 Series
Water Base Industrial Enamel B53-300 Series
See Corrosion Prevention Specs.
Water Base Industrial Enamel B53-300 Series
Water Base Industrial Enamel B53-300 Series
See Corrosion Prevention Specs.
Prep-Rite 200 Primer B28w200
Pro-Cryl Primer B66-310 Series
Heavy Duty Block Filler B42W46
XIM/UAM or SW Bonding Primer

Notes:

- Any moisture problems such as roof leaks, improper grading, etc., must be corrected prior to paint application.
- Clean and prepare all surfaces according to coating manufacturer's recommendations.
- All galvanized and metal surfaces shall be cleaned with solvent recommended by the coating manufacturer prior to priming with metal primers. Rust area shall be prepared per SSPC-SP2 or SP3 Hand or Power Tool Cleaning and primed with Sherwin-William's Pro-Cryl Primer prior to application of specified finish coats.
- AH surfaces shall receive (2) coats of top coat paint according to paint manufacturer's recommendations. Apply Sher-Clear to Exterior Red Finish Paint
- Area lights are ordered dark bronze. If this is a conversion and existing color conflicts with the VIOC color scheme, poles and fixtures should be painted with Sher-Cryl HPA
- Wainscot paint shall stop at doors and frames. Entire door and frame shall be painted one color as noted.

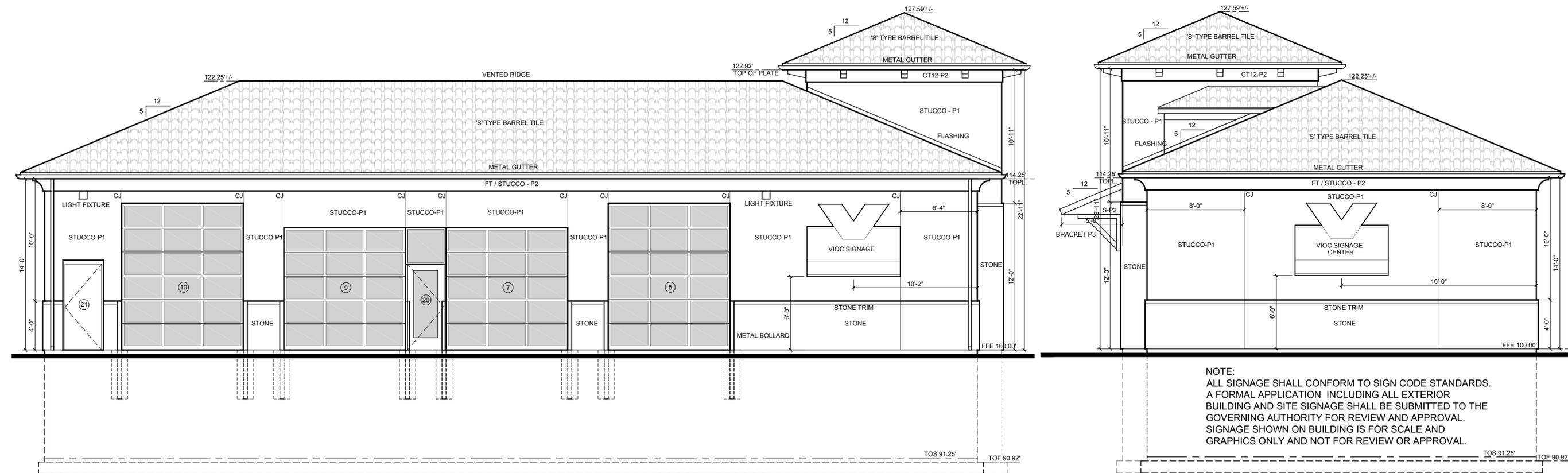
9/28/2015





1 WEST ELEVATION - FRONT
A2.1

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



3 EAST ELEVATION - REAR
A2.1

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

NOTE:
ALL SIGNAGE SHALL CONFORM TO SIGN CODE STANDARDS.
A FORMAL APPLICATION INCLUDING ALL EXTERIOR
BUILDING AND SITE SIGNAGE SHALL BE SUBMITTED TO THE
GOVERNING AUTHORITY FOR REVIEW AND APPROVAL.
SIGNAGE SHOWN ON BUILDING IS FOR SCALE AND
GRAPHICS ONLY AND NOT FOR REVIEW OR APPROVAL.

NOTE:
REFER TO DRAWING A1.3 FOR EXTERIOR MATERIAL
AND COLOR LEGEND AND MATERIAL NOTES.



Project:
Valvoline Instant Oil Change
Sunshine Lubes, LLC
54 Jaconnet Street
Newton Highlands, MA 02461

Project:
Valvoline Instant Oil Change
Grand Oak Shoppes Blvd.
Estero, FL 33928

REVISIONS
06.06.16 DRB REV.
PROJECT NO.

DATE
05.06.16 PERMIT

Exterior
Elevations

A2.1



WEST ELEVATION



SOUTH ELEVATION



NORTH ELEVATION

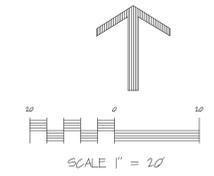


EAST ELEVATION



Valvoline Instant Oil Change
 Shoppes of Grande Oak
 Estero, Florida 33928

Henley Enterprises, Inc.
 54 Jaconnet Street
 Newton Highlands, MA 02461
 Wyatt Howard Nelson
 Architecture, PLLC
 522 Elm Street
 Syracuse, NY 13203



ROADWAY BUFFER 15' WIDE
200 FEET LONG
REQUIRED 5 TREES PER 100 FEET
100 / 100 X 5 = 10 TREES
DOUBLE HEDGE 24" HEIGHT MINIMUM

MATERIAL LIST

| Quantity | Symbol | Scientific Name | Common Name | Planting Size |
|----------------|--------|---------------------------|-----------------------|---------------------------|
| NON-NATIVE 111 | | Liriope EVERGREEN GIANT | GIANT LIRIOPE | 1 GAL |
| NON-NATIVE 309 | | Trachelespermon VARIEGATA | VAR JASMINE MINIMA | 1 GAL |
| NATIVE 19 | | Pursera simaruba | GUMBO LIMBO | 12' X 5' 3" CAL MIN SPECS |
| NATIVE 23 | | Quercus virginiana | LIVE OAK | 12' X 5' 3" CAL MIN SPECS |
| NON-NATIVE 22 | | Ixora MAUI | MAUI IXORA | 3 GAL 18" |
| NATIVE 309 | | Chrysobalanus icaco | COCOPLUM | 3 GAL 24" MIN HGT |
| NATIVE 142 | | Tripsacum dactyloides | FAKAHATCHEE GRASS | 3 GAL 24" MIN HGT |
| NATIVE 32 | | Sabal palmetto | SABAL PALM | 10' - 14' C.T. |
| NATIVE 11 | | Chrysobalanus icaco | COCOPLUM | 7 GAL 36" MIN HGT |
| 67 | | | COCO BROWN MULCH | CU YD |
| 27000 | | | ST AUGUSTINE FLORITAM | SQ FT |

SOD QUANTITY MEASURED TO PROPERTY LINE. IF VEGETATION IS DISTURBED WITH IN THE RIGHT OF WAY, ADDITIONAL SOD WILL BE REQUIRED. SOD TO BE ST AUGUSTINE FLORITAM

DESIGN HAS INCORPORATED
Curbing is used to define the appropriate location for pedestrian and vehicular traffic;

(2) Plantings such as street trees, hedges and screening have been used.

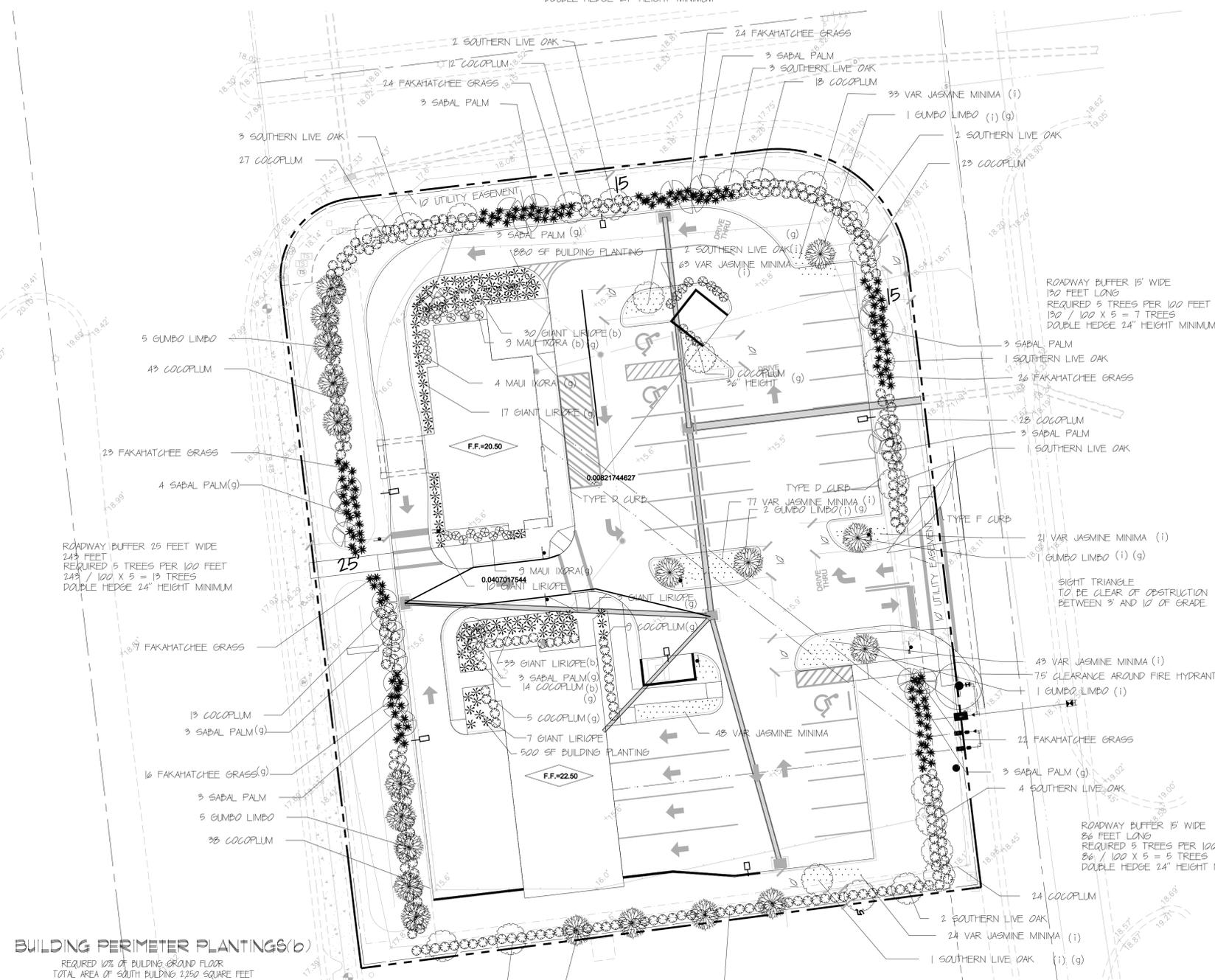
(3) Landscaping patterns and materials are replicated to visually unify the development and create focal points through design diversification where possible.

(4) Plant materials are suited to the climate and, at their mature, natural size, are suitable for their planting location.

(5) Trees for parking lots and sidewalk areas are selected so that they do not interfere with the visibility and movement of vehicles or pedestrians, or cause pavement or other hard surfaces to heave. Material selection has been designed to survive the effects of building or large paved areas (in terms of heat, shade, wind, etc)

LANDSCAPE NOTES

- ALL PLANT MATERIALS SHALL BE FLORIDA NO. 1 OR BETTER PER FLORIDA GRADES & STANDARDS FOR NURSERY PLANTS PER FLORIDA DEPARTMENT OF CONSUMER SERVICES. PLANTS SHALL BE FREE OF DISEASE, INSECTS, DEFECTS, AND/OR INJURED FLORIDA FRIENDLY LANDSCAPE AND DESIGN STANDARD SHALL BE UTILIZED.
- ALL PLANTING AREAS SHALL HAVE A 3" LAYER OF SHREDDED ORGANIC MULCH FREE OF ARSENIC. MULCH SHALL NOT BE IN CONTACT WITH THE BARK OF TREES OR SHRUBS. TREES SHALL HAVE RING OF MULCH MINIMUM 24" IN ALL DIRECTIONS. MULCH SHALL BE KEPT 3" FROM TRUNK OF TREES.
- WORK SHALL PROGRESS IN A WORKMANLIKE MANNER ACCORDING TO STANDARDS OF THE INDUSTRY.
- ALL LANDSCAPE SHALL MEET OR EXCEED VILLAGE OF ESTERO CODE SPECIFICATION REQUIREMENTS.
- ALL DISTURBED AREAS WITHIN LANDSCAPE BUFFERS AND IN LANDSCAPE ISLANDS IN THE PARKING LOT SHALL BE SODED WITH ST AUGUSTINE FLORITAM SOD. SOD SHALL BE OF GOOD QUALITY FREE OF WEEDS AND DISEASE AND INSTALLED WITH PIECES FIRMLY TOGETHER SO AS TO FORM A CONTINUOUS SURFACE WITH ALTERNATING JOINTS THAT CONFORM TO CURBS AND PLANTERS. ACTUAL QUANTITY OF SOD REQUIRED TO COVER DISTURBED AREAS MAY VARY AND SHALL BE DETERMINED AT THE COMPLETION OF CONSTRUCTION.
- ALL PLANTED TREES SHALL BE PLANTED BEYOND THE TOP OF SLOPE OF DRAINAGE SWALES OR DITCHES. TREES SHALL NOT BE PLANTED ON THE SIDES SLOPES OR THE BOTTOM OF SWALES, DITCHES, OR RETENTION AREAS. ROOT BALL OF PLANTS SHALL BE 10% ABOVE GRADE. ALL WIRE BASKET, BURLAP STRIPING AND ROPE ARE TO BE REMOVED. ALL PALMS AND TREES TO BE BRACED OR HUVED AND ALL NYLON STRAPS OR WOOD BRACING SHALL BE REMOVED WITHIN ONE YEAR OF FINAL INSPECTION.
- ALL NOXIOUS TREES AND PLANTS SHALL BE REMOVED FROM SITE AT TIME OF DEVELOPMENT. THIS INCLUDES, BUT SHALL NOT BE LIMITED TO BRAZILIAN PEPPER, DOWNY ROSEMARYTLE, AUSTRALIAN FINE MELALEUCA, WOMEN TONGUE, BISHOPWOOD, CARROTWOOD, ROSEWOOD, AIR POTATO, MURRAY RED GUM, WEEPING FIG, CHINESE TALLOW CLEAN LAUREL FIG, JAPANESE CLIMBING FERN, OLD WORLD CLIMBING FERN, JAVA PLUM, ROSE APPLE, CORK TREE, WEDDLE EARLEAF, ACACIATROPICAL SODA APPLE. SITE SHALL BE MAINTAINED FREE OF INVASIVE EXOTICS IN PERPETUITY. EXOTIC AND NUISANCE PLANTS WITHIN THE INDIGENOUS OPEN SPACE SHALL BE REMOVED BY HAND WITHOUT MACHINERY.
- LANDSCAPING SHALL BE MAINTAINED IN PERPETUITY IN A MANNER TO MEET VILLAGE CODES AND IN A NEAT (FREE OF LITTER AND DEBRIS) AND HEALTHY CONDITION BY OWNER OF THE LAND OR THEIR AGENT.
- ANY TREE REMOVAL OR RELOCATION WILL REQUIRE A TREE PERMIT FROM THE VILLAGE OF ESTERO PRIOR TO COMMENCEMENT OF WORK.
- ALL LANDSCAPE ISLANDS SHALL BE EXCAVATED TO A DEPTH OF 30" AND BACKFILLED WITH PLANTING MIX CONSISTING OF 80% MUCK AND 20% SAND FREE FROM CONSTRUCTION DEBRIS, WEED ROCKS WITH A PH OF 6.5 TO 7.0. ALL PLANTINGS TO BE FERTILIZED WITH NPK FERTILIZER WITH MINOR TRACE ELEMENTS AND AT MINIMUM 50% OF NITROGEN TO BE DERIVED ORGANICALLY.
- ALL EXISTING LANDSCAPING INCLUDING BUT NOT LIMITED TO TREES PALMS SHRUBS GRASSCOVER SOD IRRIGATION GRADING AND CURB DESTROYED DURING CONSTRUCTION SHALL BE RESTORED/ REPLACED PRIOR TO FINAL INSPECTION.
- SCHEDULE A PRECONSTRUCTION LANDSCAPE MEETING WITH THE VILLAGE OF ESTERO LANDSCAPE INSPECTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ANY PROPOSED TREES ARE NO CLOSER THAN 10' FROM THE BUILDING AND NO LESS THAN 4' FROM ANY CURB. ALSO CLARIFY THAT NO PALMS ARE CLOSER THAN 8' FROM ANY BUILDING.

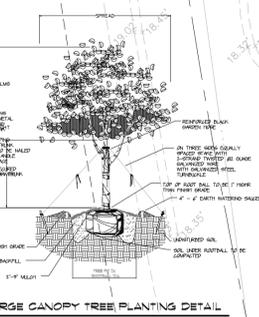
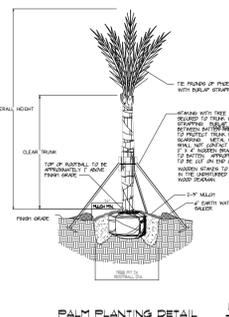
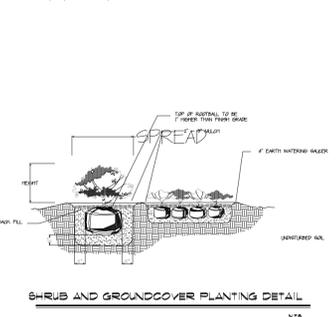


BUILDING PERIMETER PLANTINGS (b)
REQUIRED 10% OF BUILDING GROUND FLOOR
TOTAL AREA OF SOUTH BUILDING 2,250 SQUARE FEET
2,250 X 10% = 225 SQ. FT. REQUIRED
500 SQ. FT. PROVIDED

TOTAL AREA OF NORTH BUILDING 1,750 SQUARE FEET
1,750 X 10% = 175 SQ. FT. REQUIRED
880 SQ. FT. PROVIDED

GENERAL PLANT REQUIREMENT (g)
1 TREE AND 5 SHRUB REQUIRED PER 3500 SQ. FT. OF DEVELOPMENT AREA
TOTAL AREA OF DEVELOPMENT 48,412 SQUARE FEET
48,412 / 3500 = 14 TREES REQUIRED, 66 SHRUBS REQUIRED

INTERNAL LANDSCAPING (i)
REQUIRED 10% TOTAL PAVED AREA
TOTAL PAVED AREA 11,516 SQUARE FEET
11,516 X 10% = 1,152 SQ. FT.
1 CANOPY TREE FOR EVERY 250 SQ. FT. OF REQUIRED INTERNAL PLANTING AREA
TOTAL INTERNAL LANDSCAPE AREA 3,143 SQ. FT.
1,152 / 250 = 5 CANOPY TREE



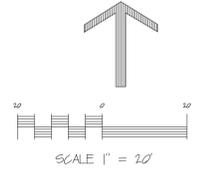
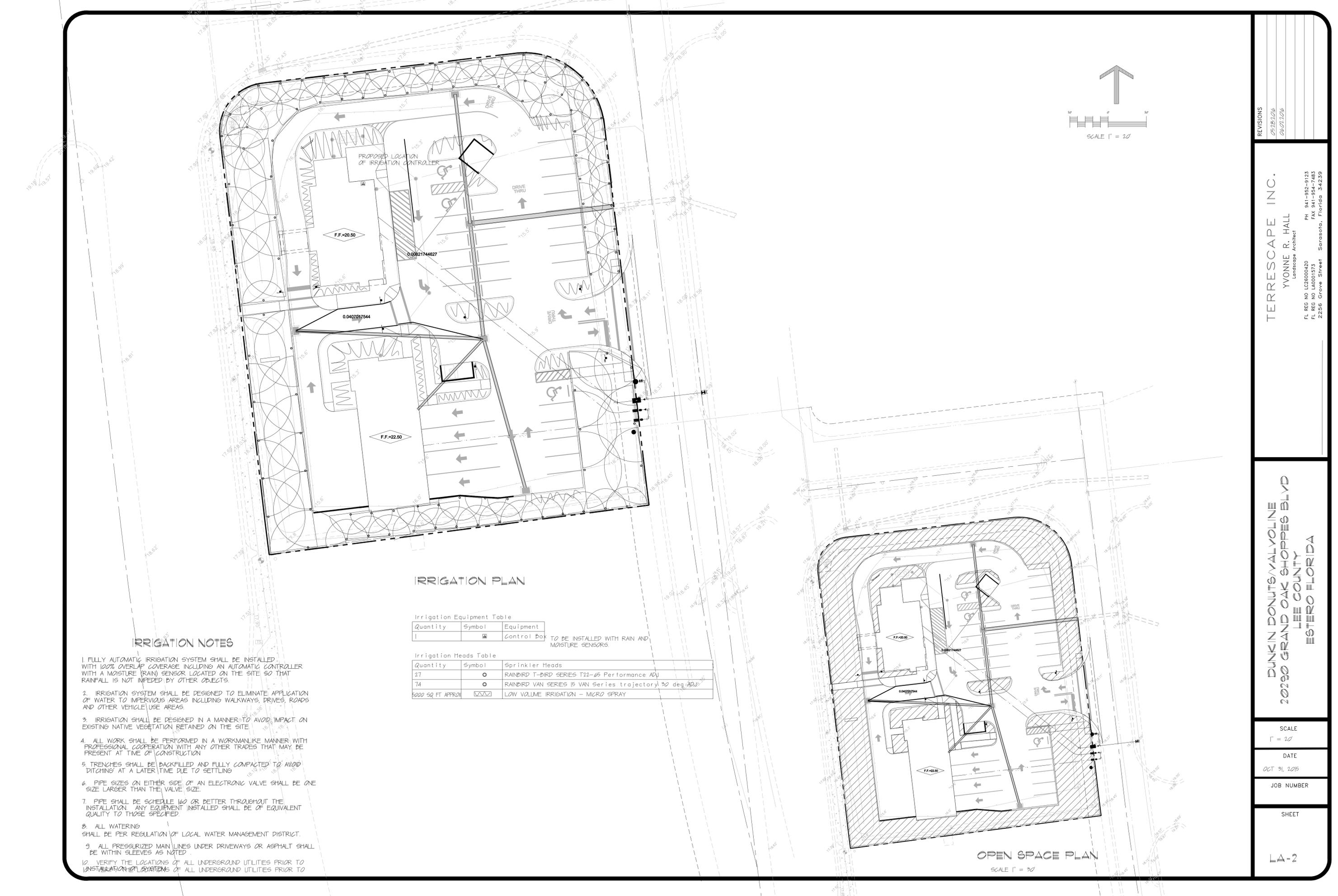
REVISIONS
122106
05181016
06071016

TERRESCAPE INC.
YVONNE R. HALL
Landscape Architect

DUNKIN DONUTS/VALVOLINE
20290 GRAND OAK SHOPPES BLVD
LEE COUNTY
ESTERO FLORIDA

SCALE
1" = 20'
DATE
OCT 31, 2015
JOB NUMBER
SHEET

LA-1



IRRIGATION NOTES

1. FULLY AUTOMATIC IRRIGATION SYSTEM SHALL BE INSTALLED WITH 100% OVERLAP COVERAGE INCLUDING AN AUTOMATIC CONTROLLER WITH A MOISTURE (RAIN) SENSOR LOCATED ON THE SITE SO THAT RAINFALL IS NOT IMPEDED BY OTHER OBJECTS.
2. IRRIGATION SYSTEM SHALL BE DESIGNED TO ELIMINATE APPLICATION OF WATER TO IMPERVIOUS AREAS INCLUDING WALKWAYS, DRIVES, ROADS AND OTHER VEHICLE USE AREAS.
3. IRRIGATION SHALL BE DESIGNED IN A MANNER TO AVOID IMPACT ON EXISTING NATIVE VEGETATION RETAINED ON THE SITE.
4. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER WITH PROFESSIONAL COOPERATION WITH ANY OTHER TRADES THAT MAY BE PRESENT AT TIME OF CONSTRUCTION.
5. TRENCHES SHALL BE BACKFILLED AND FULLY COMPACTED TO AVOID "DITCHING" AT A LATER TIME DUE TO SETTLING.
6. PIPE SIZES ON EITHER SIDE OF AN ELECTRONIC VALVE SHALL BE ONE SIZE LARGER THAN THE VALVE SIZE.
7. PIPE SHALL BE SCHEDULE 160 OR BETTER THROUGHOUT THE INSTALLATION. ANY EQUIPMENT INSTALLED SHALL BE OF EQUIVALENT QUALITY TO THOSE SPECIFIED.
8. ALL WATERING SHALL BE PER REGULATION OF LOCAL WATER MANAGEMENT DISTRICT.
9. ALL PRESSURIZED MAIN LINES UNDER DRIVEWAYS OR ASPHALT SHALL BE WITHIN SLEEVES AS NOTED.
10. VERIFY THE LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ALL UNDERGROUND UTILITIES PRIOR TO

IRRIGATION PLAN

Irrigation Equipment Table

| Quantity | Symbol | Equipment |
|----------|----------------------|--|
| 1 | [Control Box Symbol] | Control Box TO BE INSTALLED WITH RAIN AND MOISTURE SENSORS |

Irrigation Heads Table

| Quantity | Symbol | Sprinkler Heads |
|-------------------|----------------------|---|
| 27 | ○ | RAINBIRD T-BIRD SERIES T22-65 Performance ADJ |
| 74 | ○ | RAINBIRD VAN SERIES 15 VAN Series trajectory 30 deg ADJ |
| 2000 SQ FT APPROX | [Micro Spray Symbol] | LOW VOLUME IRRIGATION - MICRO SPRAY |

REVISIONS

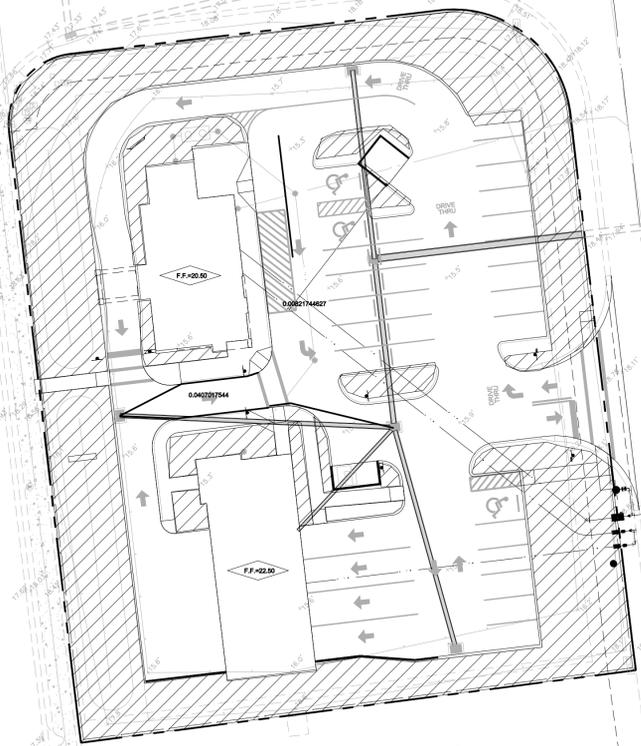
| | |
|------------|--|
| 05.15.2016 | |
| 06.02.2016 | |

TERRESCAPE INC.
 YVONNE R. HALL
 Landscape Architect
 PH 941-952-9123
 FL REG NO LC26000420
 FL REG NO LA0001573
 2256 Grove Street Sarasota, Florida 34239

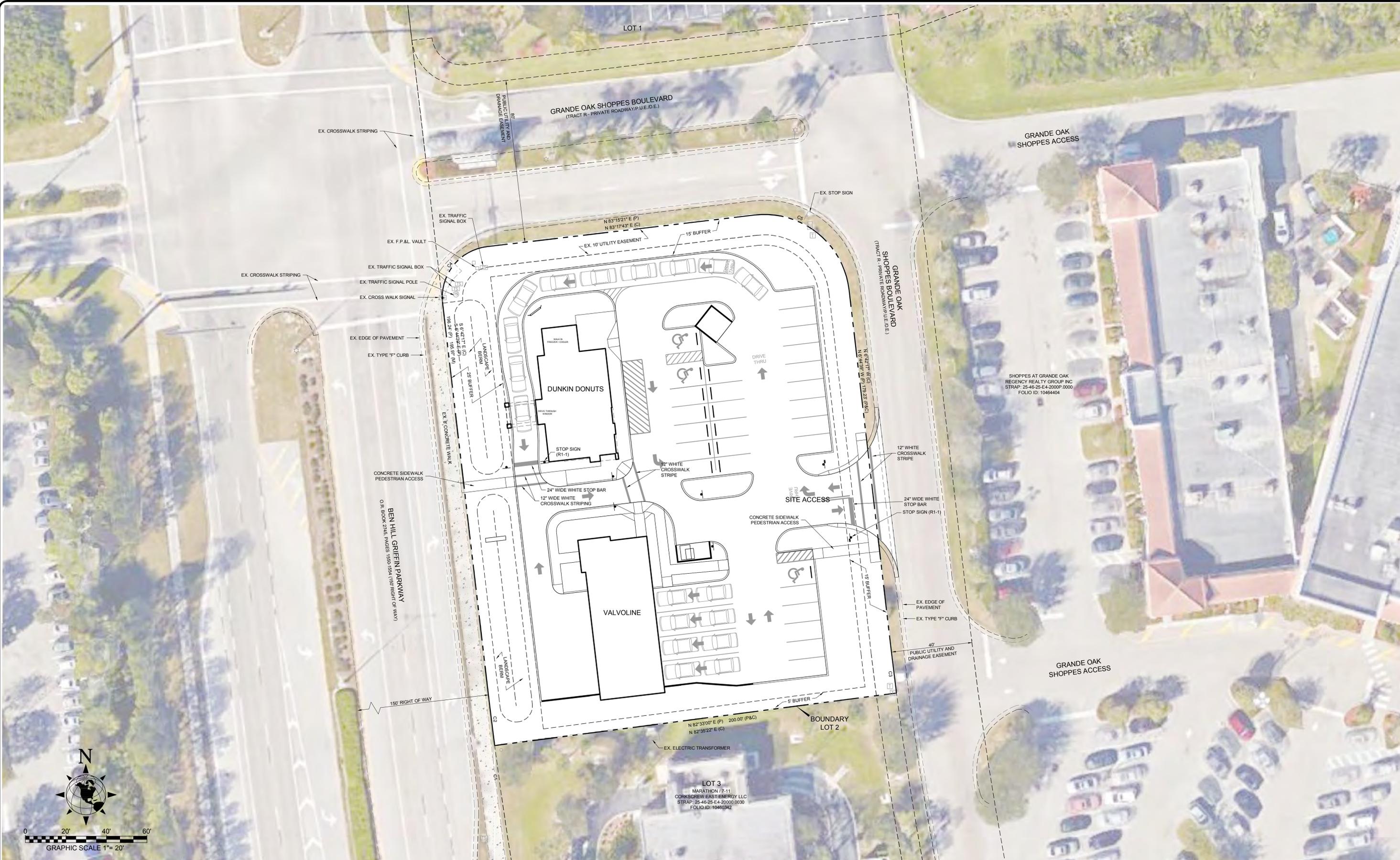
DUNKIN DONUTS/VALVOLINE
20290 GRAND OAK SHOPPES BLVD
LEE COUNTY
ESTERO FLORIDA

| |
|----------------------|
| SCALE 1" = 20' |
| DATE OCT 31, 2015 |
| JOB NUMBER |
| SHEET |

LA-2



OPEN SPACE PLAN
SCALE 1" = 30'



M MORRIS ENGINEERING AND CONSULTING, LLC
Civil Engineering and Land Development Consulting
6981 Professional Parkway East, Lakewood Ranch, Florida 34240 C.A.28780 941-444-6644 www.morrisengineering.net

| NO. | DATE | REVISION DESCRIPTION | BY |
|-----|------|----------------------|----|
| | | | |
| | | | |
| | | | |

| | |
|---------|----------|
| DATE | 06/21/16 |
| PROJECT | DDVE |
| DRAWING | ACC-EX |
| DRAWN | SPM |
| CHECKED | MJM |

ACCESS EXHIBIT
DUNKIN DONUTS / VALVOLINE - ESTERO
LEE COUNTY, FLORIDA

| | |
|----------------|------------|
| SCALE | 1"=20' |
| SEC.-TSP.-RNG. | 25-46S-25E |
| SHEET | 1 |
| OF | 1 |

MATTHEW J. MORRIS
FL LICENSE NO. 68434

GENERAL CONSTRUCTION NOTES

- ALL ELEVATIONS REFER TO N.A.V.D. 1988
- LOCATIONS, ELEVATIONS, & DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, & OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, & DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES & OTHER FEATURES AFFECTING THIS WORK PRIOR TO CONSTRUCTION, & NOTIFY ENGINEER OF DISCREPANCIES.
- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES, & SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE VARIOUS UTILITY COMPANIES, IN ORDER TO PERMIT MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES, IN ADVANCE OF CONSTRUCTION, BY CALLING "SUNSHINE" AT 1-800-432-4770. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITIES NOT INCLUDED IN THE "SUNSHINE" PROGRAM.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR.
- ALL UNDERGROUND UTILITIES MUST BE IN PLACE & TESTED OR INSPECTED PRIOR TO PAVEMENT & STRUCTURE CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT & INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, & SCHEDULE INSPECTIONS ACCORDING TO AGENCY REQUIREMENTS & CODES.
- ALL SPECIFICATIONS & DOCUMENTS REFERENCED BY THE PLANS & PERMITS SHALL BE OF LATEST REVISIONS &/OR LATEST EDITION.
- ALL WORK BY CONTRACTOR/SUBCONTRACTOR SHALL COMPLY WITH THE REGULATIONS & ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
- THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE OWNER'S ENGINEER, SHOP DRAWINGS ON ALL PROPOSED PRECAST & MANUFACTURED STRUCTURES. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE. ALL SHOP DRAWINGS ARE TO BE REVIEWED & APPROVED BY CONTRACTOR SIGNATURE PRIOR TO SUBMITTAL TO THE OWNER'S ENGINEER.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER & APPROPRIATE AGENCIES, & PROVIDE THEM WITH ALL REQUIRED SHOP DRAWINGS, THE CONTRACTOR'S NAME, STARTING DATE, PROJECTED SCHEDULE, & OTHER INFORMATION AS REQUIRED, AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION. ANY WORK PERFORMED PRIOR TO NOTIFYING THE ENGINEER, OR WITHOUT AGENCY INSPECTOR PRESENT, MAY BE DEEMED NON-COMPLIANT & WILL BE SUBJECT TO REMOVAL & REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- BACKFILL MATERIAL SHALL BE COMPACTED AROUND PIPES IN 6" LAYERS UP TO A LEVEL OF AT LEAST ONE FOOT ABOVE THE TOP & BELOW BOTTOM OF THE PIPE. IN AREAS TO BE PAVED, BACKFILL SHALL BE COMPACTED TO 100% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.
- SITE WORK CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF AT LEAST 4,000 P.S.I. IN 28 DAYS, UNLESS OTHERWISE NOTED.
- CONCRETE REINFORCING SHALL CONFORM TO ASTM A615 GRADE OR BETTER, UNLESS OTHERWISE INDICATED ON STRUCTURE PLANS.
- ALL PRIVATE & PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS. ADDITIONAL COSTS SHALL BE COORDINATED BETWEEN CONTRACTOR & VENDOR.
- CHAPTER 77-153 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATING. THESE PLANS SHOW ONLY THE APPROXIMATE LOCATION OF GAS MAINS. AN ON-SITE INSPECTION BY THE RESPECTIVE GAS COMPANY SHALL BE CALLED FOR BY THE CONTRACTOR TWO (2) WORKING DAYS BEFORE ENTERING A CONSTRUCTION AREA.
- THE CONTRACTOR SHALL UTILIZE THE DESIGN SURVEYOR TO LOCATE & FLAG ALL PROPERTY CORNERS PRIOR TO CONSTRUCTION & FINAL ENGINEERING INSPECTION & CERTIFICATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE PROPERTY CORNERS, WHICH HAVE BEEN LOST DURING CONSTRUCTION, RE-ESTABLISHED BY A PROFESSIONAL LAND SURVEYOR.
- THE SOILS ENGINEER IS TO SUPPLY THE ENGINEER WITH A PHOTOCOPY OF ALL COMPACTION TESTS & ASPHALT RESULTS. THE SOILS ENGINEER IS TO CERTIFY TO THE ENGINEER OF RECORD IN WRITING, THAT ALL TESTING REQUIREMENTS REQUIRED BY THE OWNER, LOCAL REGULATORY AGENCY, & THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), FOR THE IMPROVEMENTS AS REQUIRED BY THE ENGINEERING CONSTRUCTION DRAWINGS & PERMITS HAVE BEEN SATISFIED.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SOILS ENGINEER. TESTS WILL BE REQUIRED PURSUANT WITH THE TESTING REQUIREMENTS AS SHOWN ON THE CONSTRUCTION DRAWINGS. UPON COMPLETION OF THE WORK, THE SOILS ENGINEER IS TO SUBMIT CERTIFICATIONS TO THE OWNER'S ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.
- THE CONTRACTOR IS TO REVIEW THE DESIGN SOIL REPORTS & BORINGS PRIOR TO BIDDING THE PROJECT & PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED PLANS & PERMITS AT THE CONSTRUCTION SITE AT ALL TIMES.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR INSTRUCTION OF THE CONTRACTOR REGARDING CONSTRUCTION SAFETY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS & METHODS FOR CONSTRUCTION SITE SAFETY.
- CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL STANDARDS AND SPECIFICATIONS. PLANS ARE IN ACCORDANCE WITH LOCAL MINIMUM DRAWING REQUIREMENTS FOR POTABLE WATER, WASTEWATER, AND RECLAIMED WATER PROJECTS. STATE PLANE COORDINATES (FEET) WILL BE SUPPLIED FOR THE RECORD DRAWINGS.
- ALL PAVEMENT MARKINGS, EXCEPT PARKING STALLS, SHALL BE "ALKYD THERMOPLASTIC 90 MILS IN THICKNESS".
- CONTRACTOR SHALL INSTALL SOD AT THE BACK OF ALL CURBS, PAVEMENT EDGES, SWALES AND DETENTION AREAS. (DTM, SECTION B, PAGE 98/97/94, SECTION C.2, PAGE 101)
- ALL ROADWAY AND DRAINAGE STRUCTURE CONCRETE SHALL BE A MINIMUM 3000 PSI CONCRETE FOR ROADWAY AND DRAINAGE STRUCTURES. (FDOT STANDARD SPECIFICATIONS SECTION 346)
- ALL DRAINAGE CULVERT JOINTS SHALL BE WRAPPED PER FDOT INDEX 280. (FDOT INDEX)
- CONTRACTOR SHALL INSTALL SOLID INVERTS ON ALL NEW DRAINAGE STRUCTURES TO PREVENT IMPOUNDED WATER. (STM, SECTION 8.4.E.5, PAGE 140)
- DEVELOPER IS RESPONSIBLE FOR ALL CONSTRUCTION AND STOCKPILED VEGETATIVE DEBRIS AND FILL TO BE REMOVED FROM THE SITE IN THE EVENT THE CONSTRUCTION SITE IS ABANDONED PRIOR TO PROJECT COMPLETION.
- ALL CONSTRUCTION ACTIVITY IS TO BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT AND THE FLORIDA ACCESSIBILITY CODE.
- ALL TRAFFIC CONTROL SIGNS WITHIN THE PROJECT SHALL BE MANUFACTURED USING DIAMOND GRADE REFLECTIVE SHEETING (OR AN EQUIVALENT). ALL SIGNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MUTCD CRITERIA FOR SIGN SIZE AND SHAPE AND LETTERING DIMENSIONS.
- ALL TRAFFIC SIGN POSTS WITHIN THE PROJECT SHALL BE 2" X 2" SQUARE BREAK-AWAY 14 GAUGE GALVANIZED STEEL WITH PUNCHED HOLES IN ACCORDANCE WITH APPENDIX C3 OF THE LDR.

GENERAL SAFETY NOTES

- DURING THE CONSTRUCTION &/OR MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED BY THE CONTRACTOR. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL & SAFETY OF THE TRAVELING PUBLIC & THE SAFETY OF HIS PERSONNEL.
- THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF THE STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL & SAFE PRACTICES FOR STREET & HIGHWAY CONSTRUCTION, MAINTENANCE & UTILITY OPERATIONS SHALL BE FOLLOWED IN THE DESIGN APPLICATION, INSTALLATION, MAINTENANCE, & REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES, & BARRIERS NECESSARY TO PROTECT THE PUBLIC & WORKMEN FROM HAZARDOUS WITHIN THE PROJECT LIMITS.
- ALL TRAFFIC CONTROL MARKINGS & DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.
- LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER & THE FLORIDA DEPARTMENT OF TRANSPORTATION REGULATIONS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY & ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY & DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT &/OR ENFORCE SAFETY REGULATIONS.

CLEARING & EROSION CONTROL NOTES

- ALL CONSTRUCTION DEBRIS & OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS. ONLY "GRADING BY HAND" IS PERMITTED WITHIN THE CANOPY LINE OF TREES THAT ARE TO REMAIN.
- THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE & ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES & TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFACE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANIES & THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANIES DURING RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT & NO EXTRA COMPENSATION WILL BE ALLOWED.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR MAKING A VISUAL INSPECTION OF THE SITE & WILL BE RESPONSIBLE FOR THE DEMOLITION & REMOVAL OF ALL UNDERGROUND & ABOVE GROUND STRUCTURES THAT WILL NOT BE INCORPORATED WITH THE NEW FACILITIES. SHOULD ANY DISCREPANCIES EXIST WITH THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING THE OWNER & REQUESTING A CLARIFICATION OF THE PLANS PRIOR TO DEMOLITION.
- DURING CONSTRUCTION, ALL STORM SEWER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED & MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.
- ALL EROSION & SILTATION CONTROL METHODS SHALL BE IMPLEMENTED PRIOR TO THE START OF CONSTRUCTION & MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
- CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES OR SILTATION CURTAIN) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS, & EXISTING WETLANDS. IN ADDITION, THE CONTRACTOR SHALL PLACE A SOIL TRACKING PREVENTION DEVICE WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER & EXIT THE SITE. IF IN THE OPINION OF THE ENGINEER &/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE SAID EARTH TO THE SATISFACTION OF THE ENGINEER &/OR AUTHORITIES.
- IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION, OR OTHER ACCEPTABLE METHODS.
- THERE IS TO BE NO DISCHARGE (I.E. PUMPING, SHEET FLOW, SWALE, DITCH ETC.) INTO EXISTING LAKE SYSTEM, WETLAND, OR RIVER, WITHOUT THE USE OF SETTLING PONDS. A SETTLING POND PLAN MUST BE SUBMITTED & APPROVED BY THE ENGINEER OF RECORD & LOCAL REGULATORY AGENCY PRIOR TO CONSTRUCTION.
- ALL DISTURBED AREAS WHICH ARE NOT TO BE SODDED ARE TO BE SEEDED & MULCHED TO FDOT STANDARDS & MAINTAINED UNTIL ACCEPTABLE TO THE REGULATORY AGENCY & ENGINEER OF RECORD. ANY WASHOUTS, REGRADING, RESEEDING, SODDING, & OTHER EROSION WORK REQUIRED WILL BE PERFORMED BY THE CONTRACTOR UNTIL THE SYSTEM IS ACCEPTED BY THE OWNER, REGULATORY AGENCY, & ENGINEER OF RECORD.
- ALL SODDING, SEEDING & MULCHING SHALL INCLUDE WATERING & FERTILIZATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE AREAS UNTIL THE PROJECT IS COMPLETED & ACCEPTED BY THE OWNER.

PAVING, GRADING & DRAINAGE NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE & WILL PROVIDE BRACING, SHEETING, OR SHORING, AS NECESSARY. TRENCHES SHALL BE KEPT DRY WHILE PIPE & APPURTENANCES ARE BEING PLACED. DEWATERING SHALL BE USED AS REQUIRED.
- PRIOR TO CONSTRUCTING CONCRETE PAVEMENT, THE CONTRACTOR IS TO SUBMIT A PROPOSED JOINTING PATTERN TO THE OWNER'S ENGINEER FOR APPROVAL.
- THE CONTRACTOR IS TO PROVIDE A 1/2" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER, AT ABUTMENT OF CONCRETE & ANY STRUCTURE.
- THE CONTRACTOR IS TO INSTALL EXTRA BASE MATERIAL WHEN THE DISTANCE BETWEEN THE PAVEMENT ELEVATION & THE TOP OF THE PIPE OR BELL IS LESS THAN TWELVE (12) INCHES. SEE "EXTRA BASE FOR CROSS CULVERTS UNDER FLEXIBLE PAVEMENT DETAIL".
- ALL STORM DRAINAGE PIPE (DESIGNATED AS "SD" ON PLANS) SHALL BE REINFORCED CONCRETE CLASS IV (ASTM C-76), CORRUGATED HDPE (ADS TYPE N-12), OR APPROVED EQUAL.
- PVC STORM PIPE, 12" & SMALLER SHALL CONFORM TO AWWA C-900, CLASS 150 STANDARDS, UNLESS OTHERWISE NOTED.
- PIPE LENGTHS SHOWN ARE APPROXIMATE & ARE MEASURED TO END OF PIPE.
- ALL DRAINAGE STRUCTURE GRATES & COVERS WITHIN TRAFFIC AREAS SHALL BE TRAFFIC RATED FOR & CAPABLE OF WITHSTANDING H-20 LOADINGS.
- MATERIALS & CONSTRUCTION METHODS FOR STREETS & STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY & THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE FIELD NOTES MARKED ON AN APPROVED SET OF CONSTRUCTION PLANS TO OWNER'S ENGINEER WITH SUFFICIENT LEGIBLE NOTES TO PREPARE RECORD DRAWINGS ACCORDING TO THE LOCAL PUBLIC WORKS UTILITY STANDARDS MINIMUM RECORD DRAWING STANDARDS.
- ROOF DRAIN PIPES SHALL BE PVC(SCH 40), OR CORRUGATED HDPE (ADS N-12, OR APPROVED EQUAL) AS INDICATED ON THE PLAN.

PAVING, GRADING & DRAINAGE TESTING & INSPECTION REQUIREMENTS

- THE STORM DRAINAGE PIPING SYSTEM SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL THE CONTRACTOR IS TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE AN INSPECTION.
- THE CONTRACTOR SHALL MAINTAIN THE STORM DRAINAGE SYSTEMS UNTIL FINAL ACCEPTANCE OF THE PROJECT.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL TESTING REQUIRED BY THE CONSTRUCTION PLANS WITH THE SOILS ENGINEER. UPON COMPLETION OF THE WORK, THE SOILS ENGINEER SHALL SUBMIT CERTIFICATIONS TO THE OWNER'S ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.

POLLUTION PREVENTION NOTES

- EROSION AND SEDIMENT CONTROL BMPs IN ADDITION TO THOSE PRESENTED ON THE PLANS AND OUTLINED IN THE EROSION AND SEDIMENT CONTROL PLAN (ECP), BEST MANAGEMENT PRACTICES (BMP) PLAN, OR STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE IMPLEMENTED AS NECESSARY TO PREVENT TURBID DISCHARGES FROM FLOWING ONTO ADJACENT PROPERTIES OR ROADWAYS, OFF SITE STORMWATER CONVEYANCES OR RECEIVING WATERS, OR ON SITE WETLANDS AND SURFACE WATERS. BMPs SHALL BE DESIGNED, INSTALLED, AND MAINTAINED BY THE SITE OPERATOR TO ENSURE THAT OFF SITE SURFACE WATER QUALITY REMAINS CONSISTENT WITH STATE AND LOCAL REGULATIONS. [THE OPERATOR IS THE ENTITY THAT OWNS OR OPERATES THE CONSTRUCTION ACTIVITY AND HAS AUTHORITY TO CONTROL THOSE ACTIVITIES AT THE PROJECT NECESSARY TO ENSURE COMPLIANCE.]
- OFF SITE SURFACE WATER DISCHARGES, DISCHARGES TO THE MS4, OR DISCHARGES TO ONSITE WETLANDS OR SURFACE WATERS WITH TURBIDITY IN EXCESS OF 29 NEPHELOMETRIC TURBIDITY UNITS (NTUS) ABOVE BACKGROUND LEVEL SHALL BE IMMEDIATELY CORRECTED. SUCH INCIDENTS SHALL BE REPORTED TO AIR AND WATER QUALITY WITHIN 24 HOURS OF THE OCCURRENCE (PH: 941.861.5000; FAX: 941.861.0986). THE REPORT SHALL INCLUDE THE CAUSE OF THE DISCHARGE AND CORRECTIVE ACTIONS TAKEN.
- THE OPERATOR SHALL ENSURE THAT ADJACENT PROPERTIES ARE NOT IMPACTED BY WIND EROSION, OR EMISSIONS OF UNCONTAINED PARTICULATE MATTER IN ACCORDANCE WITH RULE 62-296.320(4)(C)1, F.A.C., BY TAKING APPROPRIATE MEASURES TO STABILIZE AFFECTED AREAS.
- FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ENTER STORMWATER DRAINS OR WATERBODIES, OR FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ARE IN EXCESS OF 25 GALLONS SHALL BE CONTAINED, CLEANED UP, AND IMMEDIATELY REPORTED TO AIR AND WATER QUALITY (PH: 941.861.5000; FAX: 941.861.0986). SMALLER GROUND SURFACE SPILLS SHALL BE CLEANED UP AS SOON AS PRACTICAL.
- IF CONTAMINATED SOIL AND/OR GROUNDWATER IS DISCOVERED DURING DEVELOPMENT OF THE SITE, ALL ACTIVITY IN THE VICINITY OF THE CONTAMINATION SHALL IMMEDIATELY CEASE, AND AIR AND WATER QUALITY SHALL BE CONTACTED (PH: 941.861.5000; FAX: 941.861.0986).
- PRIOR TO DEMOLITION OF EXISTING ON SITE STRUCTURES AN ASBESTOS SURVEY AND/OR ASBESTOS NOTIFICATION MAY BE REQUIRED.

UTILITY CONTACTS

WATER AND SEWER UTILITY COMPANY:
7391 COLLEGE PKWY, FORT MYERS, FL 33909
(239) 936-0247

COMCAST CABLE:
1418 SE 10TH STREET, CAPE CORAL, FL 33990
(800) 266-2278

CENTURYLINK CABLE:
5100 DANIELS PKWY #300, FORT MYERS, FL 33912
(239) 590-0440

LEE-CO COUNTY ELECTRIC CO-OP:
2407 SW PINE ISLAND RD, CAPE CORAL, FL 33991
(800) 599-2356

TECO PEOPLES GAS
5501 ENTERPRISE PKWY, FORT MYERS, FL 33905
(239) 698-5508

PROJECT CONTACTS

ENGINEER:
MATTHEW J. MORRIS
MORRIS ENGINEERING & CONSULTING, LLC
6981 PROFESSIONAL PARKWAY EAST,
LAKEWOOD RANCH, FLORIDA 34240
941-444-6644
WWW.MORRISENGINEERING.NET

SURVEYOR:
STOUTEN / CRAMER PROFESSIONAL SURVEYORS
324 NICHOLAS PARKWAY WEST, SUITE F, CAPE CORAL, FL 33991
PHONE: 239-673-9541

OWNER:
SURFSIDE COFFEE
888 BISCATNE DR., SUITE 5053
MIAMI, FL 33132

HENLEY ENTERPRISES
54 JACONNET ST., SUITE 100
NEWTON HEIGHTS, MA 02461

INDEX OF SHEETS

| SHEET | TITLE |
|-------|---|
| 1 | COVER SHEET |
| 2 | AERIAL SITE MAP |
| 3 | EXISTING CONDITIONS AND EROSION AND SEDIMENT CONTROL PLAN |
| 4.1 | SITE PLAN |
| 4.2 | SIGNAGE AND MARKING PLAN |
| 5 | PAVING, GRADING & DRAINAGE PLAN |
| 6.1 | UTILITY PLAN |
| 6.2 | FIRE LINE PROFILE |
| 6.3 | SEWER PROFILE |
| 7 | PAVING, GRADING & DRAINAGE DETAILS |
| 8 | UTILITY DETAILS |

CHARACTER AND INTENDED USE STATEMENT

THE PROPOSED PROJECT IS GOING TO BE DEVELOPED INTO AN DUNKIN DONUTS AND VALVOLINE.

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF THE DESIGN OF THIS PROJECT, AS PREPARED UNDER MY PERSONAL DIRECTION AND CONTROL, COMPLIES WITH ALL APPLICABLE STANDARDS, INCLUDING THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS" AS ADOPTED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION PURSUANT TO SUBSECTIONS 335.075(1) AND (4), FLORIDA STATUTES.

MATTHEW J. MORRIS
FL LICENSE NO. 68434

REVISIONS

| NO. | DATE | DESCRIPTION | BY |
|-----|----------|----------------------|-----|
| 01 | 03/29/16 | ADD UTILITY CONTACTS | SPM |
| | | | |
| | | | |
| | | | |
| | | | |

PREPARED BY

MORRIS ENGINEERING AND CONSULTING, LLC
Civil Engineering and Land Development Consulting
6981 Professional Parkway East, Lakewood Ranch, Florida 34240 C.A.28780 941-444-6644 www.morrisengineering.net



SITE DEVELOPMENT PLANS

DUNKIN DONUTS / VALVOLINE - ESTERO

SEC.-TSP.-RNG.
25-46S-25E

A DEVELOPMENT BY
SURFSIDE COFFEE
888 BISCATNE DR., SUITE 5053
MIAMI, FL 33132

SUNSHINE LUBES, LLC
54 JACONNET ST., SUITE 100
NEWTON HEIGHTS, MA 02461





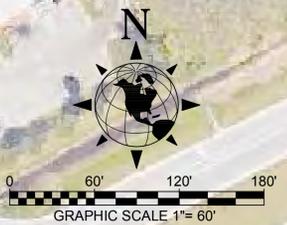
M MORRIS ENGINEERING AND CONSULTING, LLC
 Civil Engineering and Land Development Consulting
 6981 Professional Parkway East, Lakewood Ranch, Florida 34240 C.A.28780 941-444-6644 www.morrisengineering.net

| NO. | DATE | REVISION DESCRIPTION | SPM BY |
|-----|----------|----------------------|--------|
| 01 | 03/25/16 | ADD SIGHT DISTANCE | SPM |

| | |
|---------|----------|
| DATE | 08/10/15 |
| PROJECT | DDE |
| DRAWING | AER |
| DRAWN | SPM |
| CHECKED | MJM |

AERIAL SITE MAP
DUNKIN DONUTS / VALVOLINE - ESTERO
 LEE COUNTY, FLORIDA

| | |
|----------------|----------|
| SCALE | |
| 1"=60' | |
| SEC.-TSP.-RNG. | |
| 25-46S-25E | |
| SHEET | OF |
| 2 | 8 |

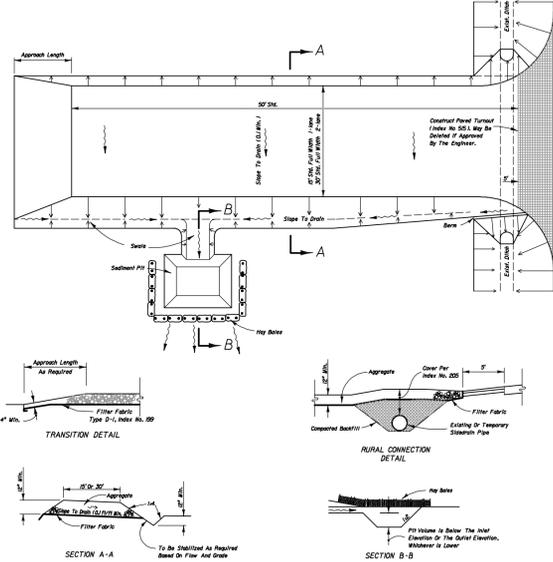


MATTHEW J. MORRIS
 FL LICENSE NO. 68434

| CURVE TABLE | | | | | | |
|-------------|--------|---------|-----------|----------------|----------------|--------|
| CURVE | LENGTH | RADIUS | DELTA | CH BEARING (P) | CH BEARING (C) | CHORD |
| C1 | 665.31 | 1835.00 | 20°46'25" | S 17°50'12" E | S 17°47'50" E | 661.67 |
| C2 | 22.60 | 1835.00 | 0°42'20" | S 07°05'49" E | S 07°03'28" E | 22.60 |
| C3 | 20.14 | 1635.00 | 0°42'21" | S 07°05'48" E | S 07°03'27" E | 20.14 |
| C4 | 39.27 | 25.00 | 90°0'0" | S 38°15'21" W | S 38°17'43" W | 35.36 |
| C5 | 65.97 | 42.00 | 90°0'0" | N 51°44'39" W | N 51°42'17" W | 59.40 |

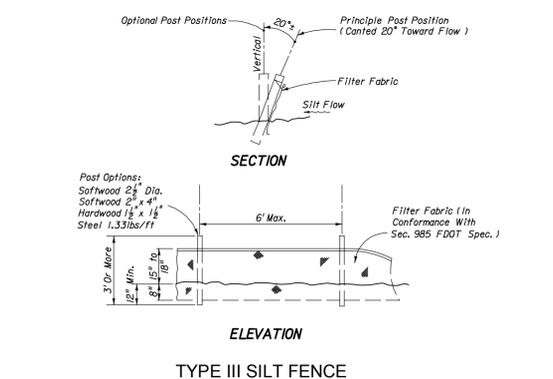
GENERAL NOTES

- A Soil Tracking Prevention Device (STPD) shall be constructed at locations designated by the engineer for paths of access from unexcavated areas of the project to public roads where off-site tracking of soil could occur. Traffic from unexcavated areas of the construction project shall be directed thru a STPD. Barriers, flagging, or other positive means shall be used as required to limit and direct vehicular access across the STPD.
- The contractor may propose an alternative technique to minimize off-site tracking of sediment. The alternative must be reviewed and approved by the Engineer prior to its use.
- All materials spilled, dropped, or tracked onto public roads (including the STPD aggregate and construction mud) shall be removed daily, or more frequently if so directed by the Engineer.
- Aggregate shall be 3/20" size #1. If this size is not available, the next available smaller size aggregate may be substituted with the approval of the Engineer. Sizes containing excessive sand aggregate will track off the project and are unsuitable.
- The sediment pit should provide a retention volume of 3600 cubic feet/acre of surface area draining to the pit. When the STPD is isolated from other drainage areas, the following pit volumes will satisfy this requirement:
 $15' \times 50' \times 200' \text{ ft}^3$ $30' \times 50' \times 200' \text{ ft}^3$
 As an option to the sediment pit, the width of the swale bottom can be increased to obtain the volume. When the sediment pit or swale volume has been reduced to one half, it shall be covered. When a swale is used, no logs or silt fence shall be placed along the entire length.
- The swale ditch draining the STPD shall have a 0.2% minimum and a 1.0% maximum grade along the STPD and to the sediment pit.
- Mineral and sections are not required when the silt fence pile satisfies the clean zone requirements.
- The STPD shall be maintained in a condition that will allow it to perform its function. To prevent off-site tracking, the STPD shall be raised daily when in use 1 to more than 100 feet above the ground surface. Additional stabilization of the vehicular route leading to the STPD may be required to limit the mud tracked.
- A STPD shall be paid for under the contract unit price for Soil Tracking Prevention Device, EA. The unit price shall comprise: full cooperation for construction, maintenance, replacement of materials, removal and restoration of the area utilized for the STPD, including, but not limited to, excavation, grading, temporary pipe, including MCS when required, filter fabric, aggregate, gravel, gravel, including gravel and base, construction, drain installation, approach road stabilization, sediment removal and disposal, water, fueling and cleaning of the STPD and cleaning of public roads, grading and soil. May well shall be paid for under the contract unit price for Hay or Straw Bales, EA. Silt fence shall be paid for under the contract unit price for Staked Silt Fence, LF.
- The nominal size of a standard STPD is 10' x 50' unless otherwise shown in the plans. If the volume of entering and exiting vehicles warrant, a 30' width STPD may be used. If approved by the Engineer, when a double width (30') STPD is used, the post quantity shall be 2' for each location.

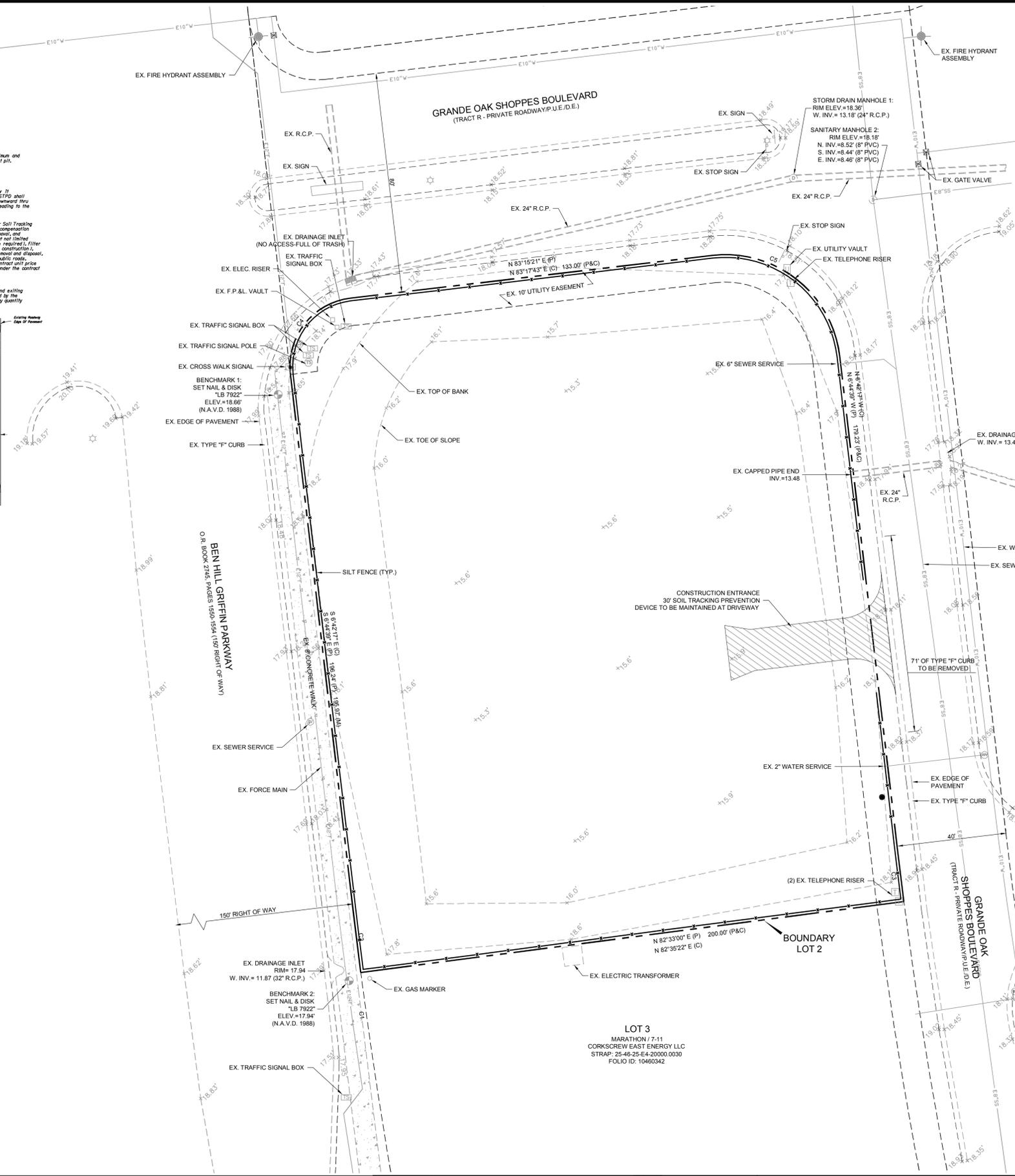


SOIL TRACKING PREVENTION DEVICE
NTS

Index No. 106



TYPE III SILT FENCE

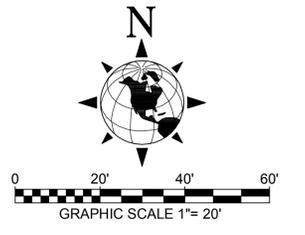


EROSION SEDIMENT CONTROL PLAN NOTES:

- EXISTING SITE CONDITIONS CONSIST OF VACANT/RESIDENTIAL LAND. LAND CLEARING/DISTURBING ACTIVITIES SHALL CONSIST OF CLEARING EXISTING VEGETATION, EXCAVATION OF PROPOSED STORMWATER MANAGEMENT VAULT AND PLACEMENT/EMBANKMENT OF EXCAVATED MATERIAL.
- ALL EXCAVATED MATERIAL WILL BE UTILIZED ON-SITE TO PROVIDE FINISHED GRADES PER PLAN. ANY REMAINING MATERIAL SHALL BE REMOVED FROM SITE.
- ALL AREAS ARE TO BE GRADED WITH A 4:1 MAXIMUM SLOPE.
- ANY DISTURBED AREAS WHERE CONSTRUCTION WILL BE ON-GOING AND FINAL GRADE WILL NOT BE ACHIEVED WITHIN FOURTEEN (14) DAYS SHALL BE SODED OR HYDRO-SEED TO PROVIDE STABILIZATION.
- ALL EROSION AND SEDIMENT CONTROLS DEPICTED ON THIS PLAN SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY LAND DISTURBING ACTIVITIES.
- EROSION AND SEDIMENT CONTROL DEVICES SHALL BE VISUALLY INSPECTED WEEKLY, OR AFTER SIGNIFICANT (0.5" OR GREATER) RAINFALL EVENTS. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT SHALL BE CORRECTED AS SOON AS POSSIBLE, BUT IN NO CASE LATER THAN 7 DAYS AFTER THE INSPECTION. A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS ATTACHED.
- CONSTRUCTION TRAFFIC SHALL ENTER VIA THE PROPOSED ENTRANCE, AND SHALL BE MARKED ACCORDINGLY. SOIL TRACKING PREVENTION DEVICES SHALL BE INSTALLED PRIOR TO DISTURBANCE OF ANY LAND WITHIN THE PROJECT.
- FUGITIVE PARTICULATE ABATEMENT METHODS SHALL CONSIST OF THE FOLLOWING:
 - USE OF WATER TRUCKS TO CONTROL DUST ON-SITE DUE TO HIGH WINDS AND TRUCK TRAFFIC
 - ENSURE THAT ALL OPEN BODIED TRUCKS TRANSPORTING MATERIAL THAT MAY EMIT PARTICLES INTO THE AIR ARE COVERED AT ALL TIMES
 - ENSURING THAT ALL CONSTRUCTION TRAFFIC ENTERS AND EXITS THE SITE AT THE DESIGNATED CONSTRUCTION ENTRANCE ONLY AND ARE WASHED DOWN AS NECESSARY TO REDUCE PARTICULATE MATTER.
- CONTRACTOR SHALL PROVIDE ENGINEER AND CITY OF SARASOTA WITH A 24-HOUR, 7-DAY EMERGENCY CONTACT NUMBER FOR ANY EROSION AND SEDIMENTATION CONCERNS.
- THERE ARE NO WATER QUALITY MONITORING REQUIREMENTS FOR THIS PROJECT DURING CONSTRUCTION.

- NOTES:**
- EXISTING WATER AND SEWER SERVICES NOT BEING EMPLOYED ARE TO BE LOCATED BY CONTRACTOR, DISCONNECTED AND CAPPED.
 - EXISTING DRAINAGE INLETS, TO BE FITTED WITH "FLEXSTORM" INLET FILTER SEDIMENT PROTECTION OR EQUIVALENT.

SHOPPES AT GRANDE OAK
REGENCY REALTY GROUP INC
STRAP: 25-46-25-E4-2000P.0000
FOLIO ID: 10464404



MORRIS ENGINEERING AND CONSULTING, LLC
Civil Engineering and Land Development Consulting
6981 Professional Parkway East, Lakewood Ranch, Florida 34240 C.A.28780 941-444-6644 www.morrisengineering.net

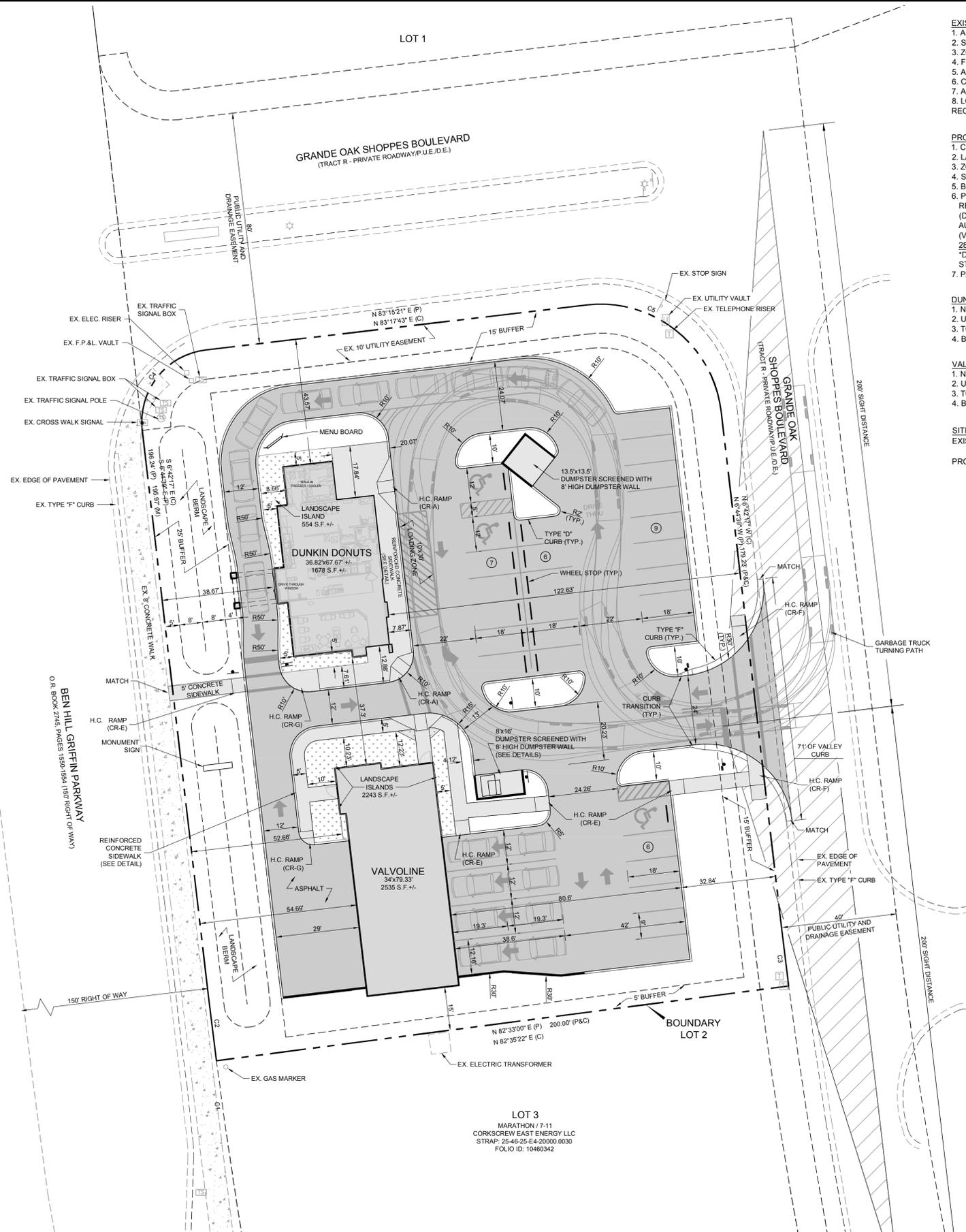
| NO. | DATE | REVISION DESCRIPTION | BY |
|-----|------|----------------------|----|
| | | | |
| | | | |
| | | | |

| | |
|-------------|----------|
| DATE | 08/10/15 |
| PROJECT DDE | |
| DRAWING EX | |
| DRAWN SPM | |
| CHECKED MJM | |

EXISTING CONDITIONS AND EROSION AND SEDIMENT CONTROL PLAN
DUNKIN DONUTS / VALVOLINE - ESTERO
LEE COUNTY, FLORIDA

| | |
|---|----------|
| SCALE 1"=20' | |
| SEC.-TSP.-RNG. 25-46S-25E | |
| SHEET | OF |
| 3 | 8 |
| MATTHEW J. MORRIS FL LICENSE NO. 68434 | |

| CURVE TABLE | | | | | | |
|-------------|--------|---------|-----------|----------------|----------------|--------|
| CURVE | LENGTH | RADIUS | DELTA | CH BEARING (P) | CH BEARING (C) | CHORD |
| C1 | 665.31 | 1835.00 | 20°46'25" | S 17°50'12" E | S 17°47'50" E | 661.67 |
| C2 | 22.60 | 1835.00 | 0°42'20" | S 07°05'49" E | S 07°03'28" E | 22.60 |
| C3 | 20.14 | 1635.00 | 0°42'21" | S 07°05'48" E | S 07°03'27" E | 20.14 |
| C4 | 39.27 | 25.00 | 90°0'0" | S 38°15'21" W | S 38°17'43" W | 35.36 |
| C5 | 65.97 | 42.00 | 90°0'0" | N 51°44'39" W | N 51°42'17" W | 59.40 |



- EXISTING SITE NOTES:**
1. ADDRESS: 20290 GRANDE OAK SHOPPES BLVD., ESTERO, FL. 33928
 2. STRAP: 254625E420000020
 3. ZONING: MPD
 4. FLOOD ZONE: SUBJECT PROPERTY LIES IN ZONE X PER FEDERAL INSURANCE RATE MAP NUMBER 12071C0584F EFFECTIVE DATE 8/28/2008
 5. ALL ELEVATIONS REFER TO N.A.V.D. 1988
 6. CLASSIFICATION / DOR CODE: VACANT COMMERCIAL / 10
 7. AREA: 48422 S.F. OR 1.11 AC.
 8. LOT 2 OF THE SHOPPES OF GRANDE OAK, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 69, PAGE 31, OF THE PUBLIC RECORDS OF LEE COUNTY, FLORIDA.

- PROPOSED SITE NOTES:**
1. CONSTRUCTION SCHEDULE: 2016-2017
 2. LAND USE: COMMERCIAL
 3. ZONING: MPD
 4. SETBACKS: FRONT (R.O.W.)= 25', SIDE= 15', REAR= 15'
 5. BUFFERS: FRONT= 25', SIDE= 15' (R.O.W.) 5', REAR= 15' & 25'
 6. PARKING REQUIRED:
RESTAURANTS, FAST FOOD: 13 SPACES PER 1000 SQUARE FEET OF TOTAL FLOOR AREA (DUNKIN DONUTS) 1678 S.F. / 1000= 1.67 X 13= 22 SPACES
AUTOMOTIVE DRIVE-IN OIL CHANGE ESTABLISHMENTS: 1.5 SPACES PER SERVICE BAY (VALVOLINE) 1.5 X 4 BAYS= 6 SPACES
28 SPACES TOTAL
 7. DRIVE-IN AUTOMOTIVE OIL CHANGE ESTABLISHMENTS: STACKING LANES TO ACCOMMODATE TWO CARS PER SERVICE BAY OR FIVE STACKING SPACES PER SITE, WHICHEVER IS GREATER. EACH SERVICE BAY MAY COUNT AS ONE STACKING SPACE.
 8. PARKING PROVIDED: 28 SPACES W/ 3 H.C. PARKING SPACES

- DUNKIN DONUTS BUILDING NOTES:**
1. NUMBER OF FLOORS: 1
 2. USE OF STRUCTURES: RESTAURANT, FAST FOOD
 3. TOTAL SQUARE FOOTAGE: 1678 S.F.
 4. BUILDING COVERAGE: 3.4%

- VALVOLINE BUILDING NOTES:**
1. NUMBER OF FLOORS: 1
 2. USE OF STRUCTURES: RETAIL ESTABLISHMENT
 3. TOTAL SQUARE FOOTAGE: 2535 S.F.
 4. BUILDING COVERAGE: 5.2%

- SITE AREAS (WITHIN CONSTRUCTION LIMITS):**
- EXISTING SITE AREAS: IMPERVIOUS: 0 S.F. (0%)
PERVIOUS (OPEN SPACE): 48422 S.F. (100%)
- PROPOSED SITE AREAS: IMPERVIOUS: 29947 S.F. (61.9%)
PERVIOUS (OPEN SPACE): 18475 S.F. (38.1%)

SHOPPES AT GRANDE OAK
REGENCY REALTY GROUP INC
STRAP: 25-46-25-E4-2000P 0000
FOLIO ID: 10464404



MORRIS ENGINEERING AND CONSULTING, LLC
Civil Engineering and Land Development Consulting
6981 Professional Parkway East, Lakewood Ranch, Florida 34240 C.A.28780 941-444-6644 www.morrisengineering.net

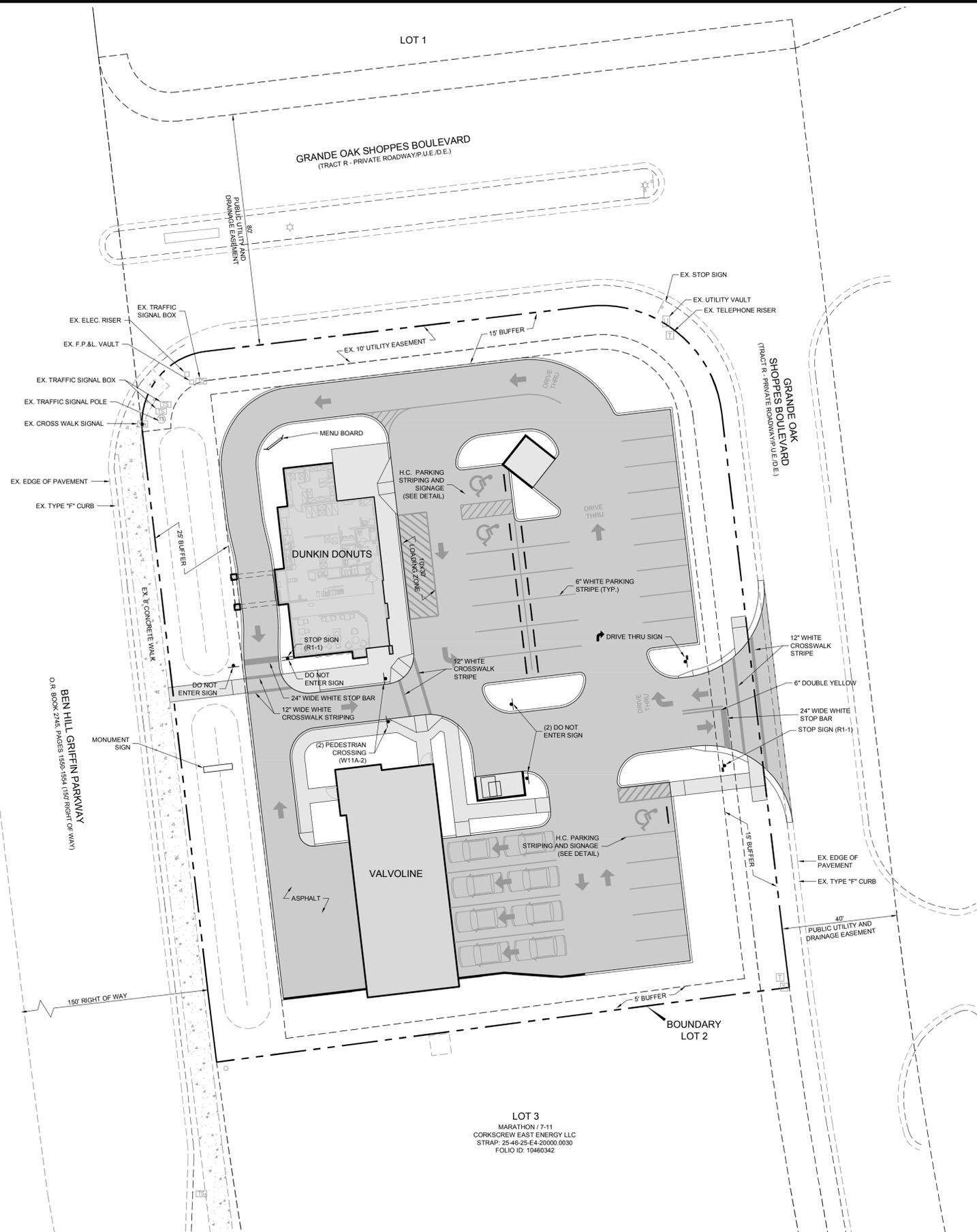
| NO. | DATE | REVISION DESCRIPTION | BY |
|-----|----------|------------------------------|-----|
| 02 | 05/31/16 | MISC. REVISIONS PER COMMENTS | SPM |
| 01 | 03/29/16 | MISC. REVISIONS PER COMMENTS | SPM |

| DATE | PROJECT | DRAWING | DRAWN | CHECKED |
|----------|---------|---------|-------|---------|
| 08/10/15 | DDVE | SP | SPM | MJM |

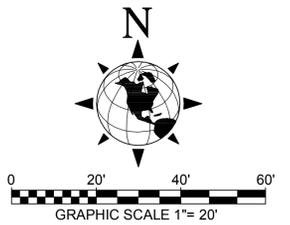
SITE PLAN
DUNKIN DONUTS / VALVOLINE - ESTERO
LEE COUNTY, FLORIDA

| SCALE | |
|----------------|----|
| 1" = 20' | |
| SEC.-TSP.-RNG. | |
| 25-46S-25E | |
| SHEET | OF |
| 4.1 | 8 |

MATTHEW J. MORRIS
FL LICENSE NO. 68434



SHOPPES AT GRANDE OAK
 REGENCY REALTY GROUP INC
 STRAP: 25-46-25-E4-2000P 0000
 FOLIO ID: 10464404



M MORRIS ENGINEERING AND CONSULTING, LLC
 Civil Engineering and Land Development Consulting
 6981 Professional Parkway East, Lakewood Ranch, Florida 34240 C.A.28780 941-444-6644 www.morrisengineering.net

| NO. | DATE | REVISION DESCRIPTION | BY |
|-----|----------|------------------------------|-----|
| 02 | 05/31/16 | MISC. REVISIONS PER COMMENTS | SPM |
| 01 | 03/29/16 | MISC. REVISIONS PER COMMENTS | SPM |

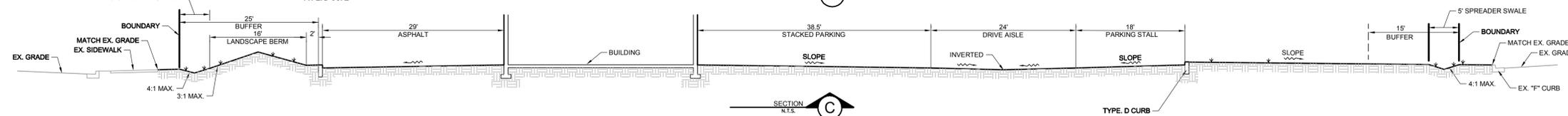
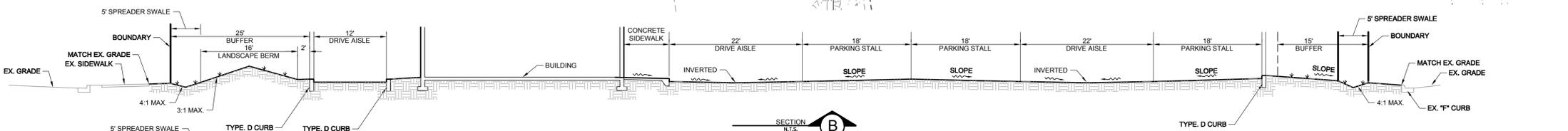
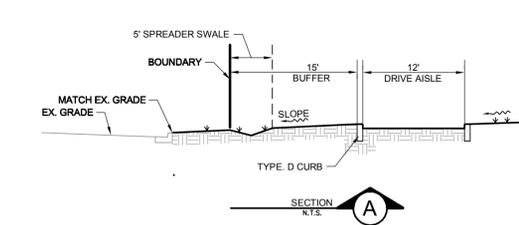
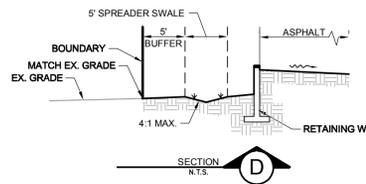
| | |
|---------|----------|
| DATE | 08/10/15 |
| PROJECT | DDVE |
| DRAWING | SM |
| DRAWN | SPM |
| CHECKED | MJM |

SIGNAGE AND MARKING PLAN
DUNKIN DONUTS / VALVOLINE - ESTERO
 LEE COUNTY, FLORIDA

| | |
|---|------------|
| SCALE | 1"=20' |
| SEC.-TSP.-RNG. | 25-46S-25E |
| SHEET | 4.2 |
| OF | 8 |
| MATTHEW J. MORRIS FL LICENSE NO. 68434 | |

DRAINAGE STRUCTURE TABLE

| | | | |
|-----|--|-----|--|
| S-1 | 4" JUNCTION M.I. FDOT INDEX 200/201 TOP= 19.92 N. INV.= 15.69 S. INV.= 15.61 E. INV.= 15.69 | S-2 | DITCH BOTTOM INLET TYPE F, FDOT INDEX 233 TOP= 19.00 N. INV.= 15.81 S. INV.= 15.81 W. INV.= 15.81 E. INV.= 15.81 |
| S-3 | DITCH BOTTOM INLET TYPE F, FDOT INDEX 233 TOP= 19.00 N. INV.= 16.00 | S-4 | DITCH BOTTOM INLET TYPE F, FDOT INDEX 233 TOP= 19.00 N. INV.= 16.00 |
| S-5 | DITCH BOTTOM INLET TYPE F, FDOT INDEX 233 TOP= 19.00 N. INV.= 16.00 | | |



M MORRIS ENGINEERING AND CONSULTING, LLC
Civil Engineering and Land Development Consulting
6981 Professional Parkway East, Lakewood Ranch, Florida 34240 C.A.28780 941-444-6644 www.morrisengineering.net

| NO. | DATE | REVISION DESCRIPTION | SPM BY | CHECKED M/JM |
|-----|----------|------------------------------|--------|--------------|
| 01 | 03/29/16 | MISC. REVISIONS PER COMMENTS | | |

| | |
|--------------|----------|
| DATE | 02/02/14 |
| PROJECT | |
| DRAWING PGD | |
| DRAWN SPM | |
| CHECKED M/JM | |

PAVING, GRADING & DRAINAGE PLAN
DUNKIN DONUTS / VALVOLINE - ESTERO
LEE COUNTY, FLORIDA

| | | | |
|---|------------|----|---|
| SCALE | 1"=20' | | |
| SEC.-TSP.-RNG. | 25-46S-25E | | |
| SHEET | 5 | OF | 8 |
| MATTHEW J. MORRIS FL LICENSE NO. 68434 | | | |

LEE COUNTY UTILITIES STANDARD PLAN NOTES:

A. ALL WORK SHALL CONFORM TO LATEST REVISION OF THE LEE COUNTY UTILITIES OPERATIONAL MANUAL WHICH IS ON FILE AT THE DIVISION OF LEE COUNTY UTILITIES OFFICE (1500 MONROE STREET, P.O. BOX 398, FORT MYERS, FLORIDA 33902).

B. ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY LCU.

C. AT THE SITE KEEP AND MAINTAIN ONE RECORD COPY OF ALL CONTRACT DOCUMENTS, REFERENCE DOCUMENTS AND ALL TECHNICAL DOCUMENTS SUBMITTED IN GOOD ORDER. AS THE WORK PROGRESSES THE ENGINEER OR HIS DESIGNATED REPRESENTATIVE SHALL RECORD ON ONE SET OF REPRODUCIBLE DRAWINGS ALL CHANGES AND DEVIATIONS FROM THE ORIGINAL PLANS. HE SHALL RECORD THE EXACT LOCATION OF ALL CHANGES IN VERTICAL AND HORIZONTAL ALIGNMENT BY OFFSETS AND TIES AT EACH, SEWER, WATER, ELECTRIC, GAS, COMMUNICATION AND OTHER SERVICES BY OFF-SET DISTANCE TO PERMANENT IMPROVEMENTS SUCH AS BUILDING AND CURBS.

THESE RECORD DRAWINGS MUST BE CERTIFIED BY THE FLORIDA REGISTERED PROFESSIONAL ENGINEER, WHO PREPARED THE PLANS AND SIGNS AND SEALS THESE PLANS. THE RECORD DRAWINGS SHALL INCLUDE VERTICAL AND HORIZONTAL ALIGNMENT OF ALL WATER, SEWER, AND EFFLUENT REUSE LINES, VALVES, TEES, BENDS, REDUCERS, HYDRANTS, PUMP STATIONS, SERVICE CONNECTIONS, METER BOXES AND/OR PADS, AND OTHER PERTINENT STRUCTURES. PIPELINE RUNS IN EXCESS OF 152.4M, (500'), WITHOUT FITTINGS SHALL INCLUDE VERTICAL ALIGNMENT INFORMATION AT 152.4M, (500') INTERVALS. SAID ALIGNMENT SHALL BE TIED TO PERMANENT IMPROVEMENTS, SUCH AS ROADWAY AND/OR RAILROAD CENTERLINES AND RIGHTS-OF-WAY, BUILDING AND PROPERTY CORNERS, AND SHALL BE CERTIFIED BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF FLORIDA. THE PROFESSIONAL LAND SURVEYOR CAN COORDINATE WITH THE CONTRACTOR TO INSTALL THE NECESSARY APPURTENANCES ON BURIED UTILITIES TO FACILITATE THE SURVEY AFTER CONSTRUCTION IS COMPLETED. IN ADDITION, PROPERTY STRIP NUMBERS AND STREET NAMES SHALL BE SHOWN ON THE PLAN.

ON A CASE BY CASE BASIS, LEE COUNTY UTILITIES MAY WAIVE THE REQUIREMENT FOR CERTIFICATION BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF FLORIDA. HOWEVER, PRIOR CONSENT MUST FIRST BE OBTAINED FROM LEE COUNTY UTILITIES. THE COUNTY SHALL WITHHOLD FINAL ACCEPTANCE OF THE PROJECT UNTIL THE REQUIREMENT FOR RECORD DRAWINGS AND RELATED RECORDS HAS BEEN MET. RECORD DRAWINGS WITHOUT DETAILED FIELD VERIFIED HORIZONTAL AND VERTICAL LOCATIONS OF ALL FACILITIES SHOWN WILL BE REJECTED.

D. A PRE-CONSTRUCTION MEETING IS REQUIRED BEFORE WORK MAY BEGIN. LEE COUNTY UTILITIES SHALL BE NOTIFIED 48 HOURS PRIOR TO PROJECT MOBILIZATION.

E. ALL WORK AND MATERIALS, WHICH DO NOT CONFORM TO LCU SPECIFICATIONS, ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

F. ANY WORK PERFORMED WITHOUT THE KNOWLEDGE OF LCU IS SUBJECT TO RE-EXCAVATION, REMOVAL AND REPLACEMENT OF SAME TO BE DONE AT THE CONTRACTOR'S EXPENSE.

G. THE CONTRACTOR SHALL PROVIDE SUFFICIENT PERSONNEL AND EQUIPMENT ON THE JOB AT ALL TIMES DURING CONSTRUCTION TO SATISFY THE SPECIFICATIONS AND TO COMPLETE WORK.

H. LCU INSPECTION STAFF MAY OBSERVE PROJECT CONSTRUCTION.

I. THE CONTRACTOR IS TO UNCOVER ALL EXISTING LINES BEING TIED INTO AND VERIFY GRADES BEFORE BEGINNING CONSTRUCTION.

J. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND TAKE ALL POSSIBLE PRECAUTIONS TO AVOID ANY DAMAGE TO ALL UNDERGROUND PIPELINES, TELEPHONE, CABLE TV, ELECTRIC LINES/CONDUITS AND STRUCTURES IN ADVANCE OF ANY CONSTRUCTION. LCU WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS OR THOSE OMITTED FROM THESE PLANS. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY OCCUR BY HIS FAILURE TO EXACTLY LOCATE AND PROTECT EXISTING UTILITIES AND STRUCTURES.

K. CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THE PLANS. IF ANY DISCREPANCIES IN QUANTITIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND LCU.

L. ALL REGULATORY AND PERMITTING AGENCIES' REQUIREMENTS SHALL BE COMPLIED WITH.

M. APPROPRIATE TURBIDITY CONTROL DEVICES (E.G. SILT FENCES, HAY BAILS) WILL BE UTILIZED DURING ALL PHASES OF INSTALLATION AND GRADING. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE NOTICE OF INTENT AND NOTICE OF TERMINATION TO THE EPA IN COMPLIANCE WITH LEE COUNTY'S NPDES PERMIT. CONTRACTOR IS RESPONSIBLE FOR DEVELOPING AND MAINTAINING AN EFFECTIVE STORM WATER POLLUTION PREVENTION PLAN.

N. IN THE EVENT THAT HARD LIMESTONE FORMATION IS ENCOUNTERED, MAKING IT IMPOSSIBLE TO EXCAVATE TO THE DEPTH REQUIRED UNDER THIS CONTRACT, THE CONTRACTOR MAY BE ALLOWED TO REDUCE THE PIPE COVER TO NOT LESS THAN TWO (2) FEET WHILE MAINTAINING THE LCU REQUIRED THICKNESS OF BEDDING UNDER THE PIPE. SUCH DEVIATION FROM THE PLANS MUST BE FIRST BE APPROVED BY LCU AND THE ENGINEER PRIOR TO THE PIPE LAYING. IF TWO FEET OF COVER OR MORE CAN NOT BE ATTAINED, THE CONTRACTOR SHALL PROVIDE OTHER METHOD OF CONSTRUCTION OR PIPE PROTECTION WHICH SHALL FIRST BE APPROVED BY LCU AND THE ENGINEER, AT NO ADDITIONAL COST TO THE COUNTY.

O. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AFFECTING HIS WORK. ANYTHING NOT SHOWN ON THESE DRAWINGS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHALL NOT CONSTITUTE AN EXTRA, UNLESS APPROVED BY THE ENGINEER.

P. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND LCU IMMEDIATELY CONCERNING ANY CONFLICTS WITH LCU UTILITIES/STRUCTURES ARISING DURING CONSTRUCTION OF ANY FACILITIES SHOWN ON THESE DRAWINGS.

Q. TRAFFIC MUST BE MAINTAINED AT ALL TIMES AS PER LEE COUNTY DEPARTMENT OF TRANSPORTATION (LCDOT) AND PER FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

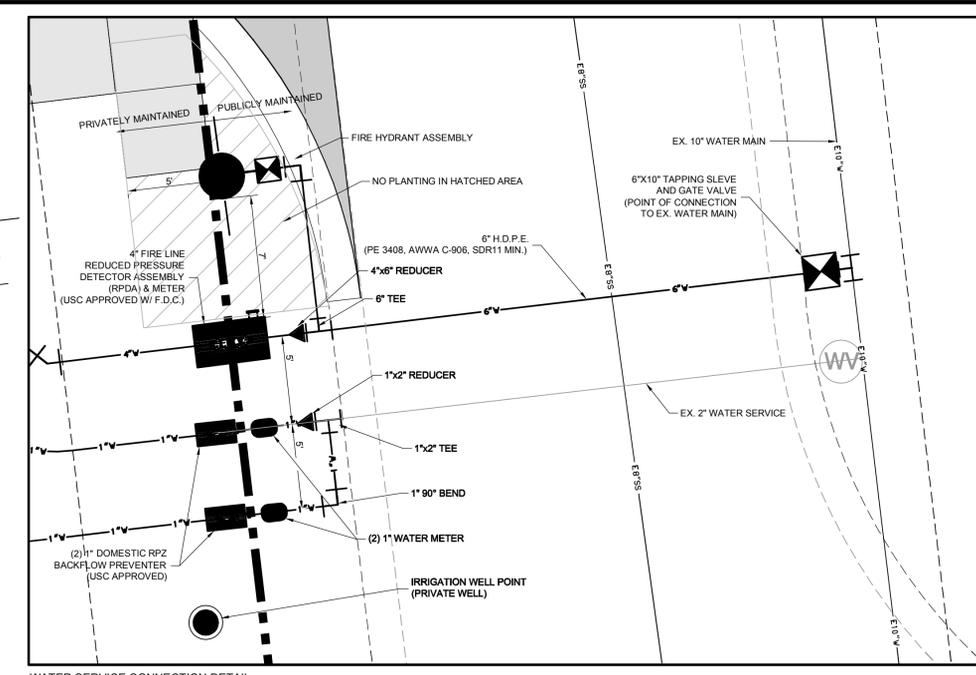
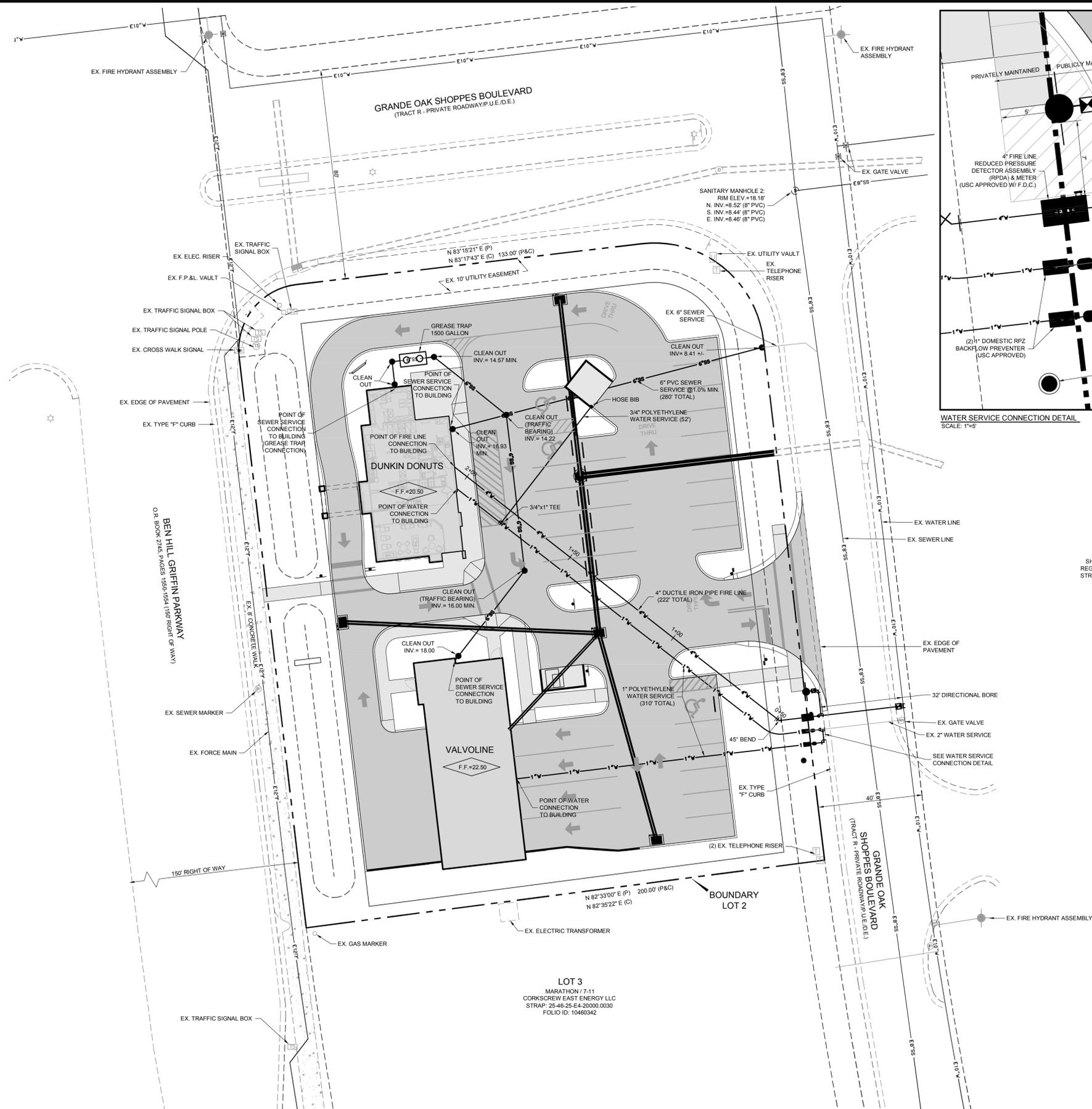
R. THE CONTRACTOR SHALL VERIFY ALL UTILITIES AND PROVIDE AT LEAST 48 HOURS NOTICE TO THE INDIVIDUAL UTILITY COMPANIES AND FDOT AND LCDOT PRIOR TO CONSTRUCTION.

S. THE CONTRACTOR SHALL REPLACE ALL PAVEMENT, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, ETC., WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RESTORE ALL AREAS AFFECTED BY THE CONSTRUCTION TO ITS ORIGINAL CONDITION, OR BETTER.

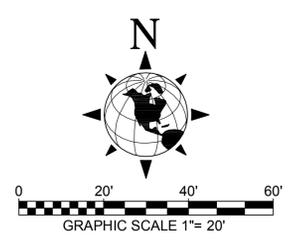
T. WITHIN THE FDOT AND LCDOT RIGHT-OF-WAY, ALL DISTURBED AREAS SHALL RECEIVE GRASSING (SEEDING) OR SODDING MATERIALS IN ACCORDANCE WITH FDOT SPECIFICATIONS. THOSE AREAS THAT ARE CLASSIFIED AS DRAINAGE DITCHES SHALL RECEIVE FULL SOLID SOD.

U. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.

V. ALL FRAMES, COVERS VALVE BOXES, METER BOXES AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE UPON COMPLETION OF PAVING OR RELATED CONSTRUCTION. ALL VALVE PADS SHALL BE POURED IN PLACE. NO PRE-FORMED VALVE PADS ALLOWED.



SHOPPES AT GRANDE OAK
REGENCY REALTY GROUP INC
STRAP: 25-46-25-E4-20000-0000
FOLIO ID: 10464404



M MORRIS ENGINEERING AND CONSULTING, LLC
Civil Engineering and Land Development Consulting
6981 Professional Parkway East, Lakewood Ranch, Florida 34240 C.A.28780 941-444-6644 www.morrisengineering.net

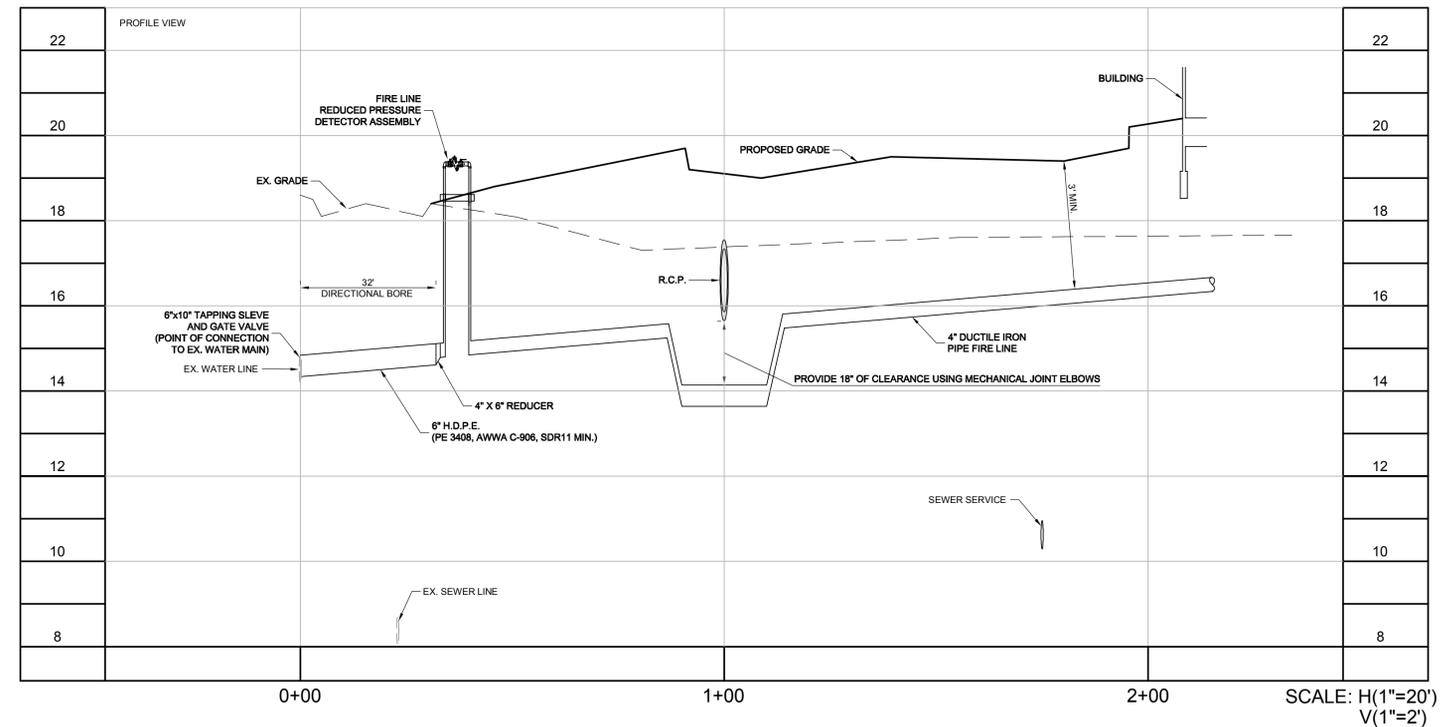
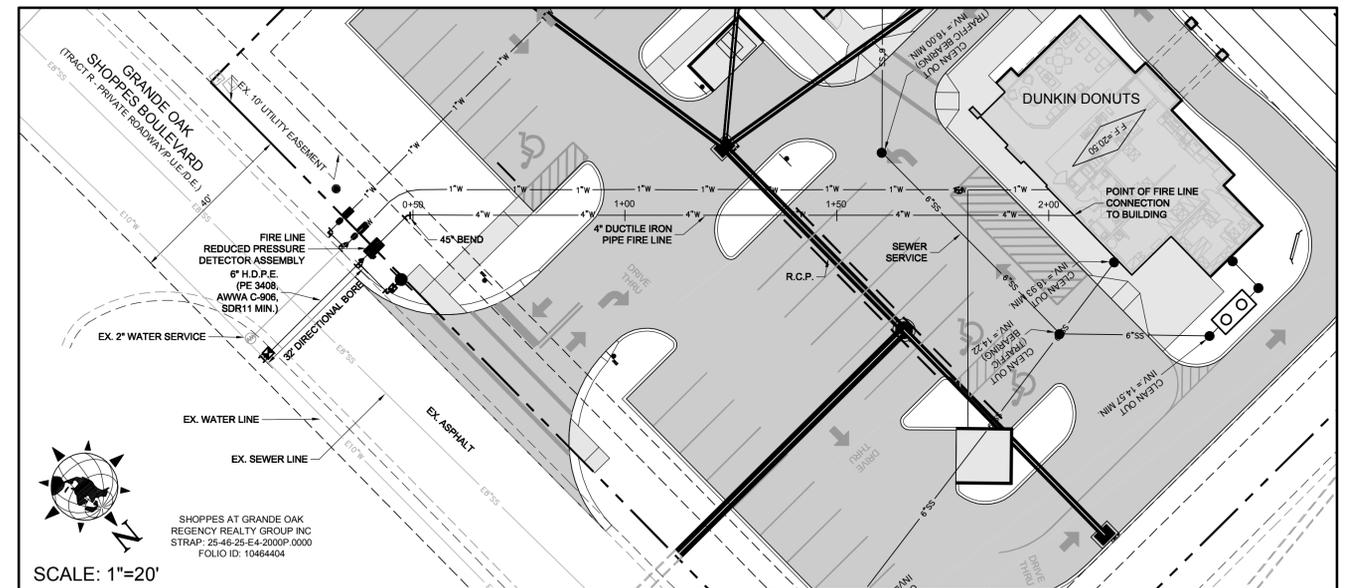
| NO. | DATE | REVISION DESCRIPTION | BY |
|-----|----------|------------------------------|-----|
| 01 | 05/31/16 | MISC. REVISIONS PER COMMENTS | SPM |
| 02 | 03/29/16 | MISC. REVISIONS PER COMMENTS | SPM |

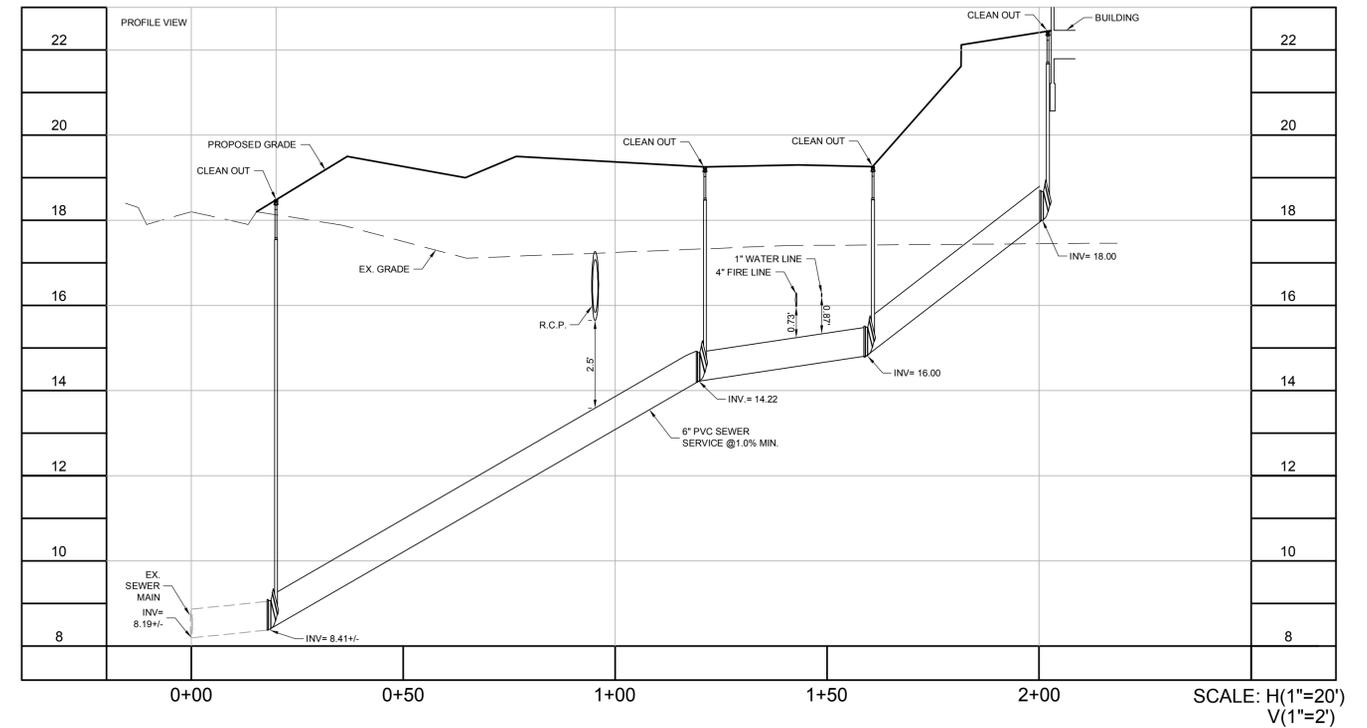
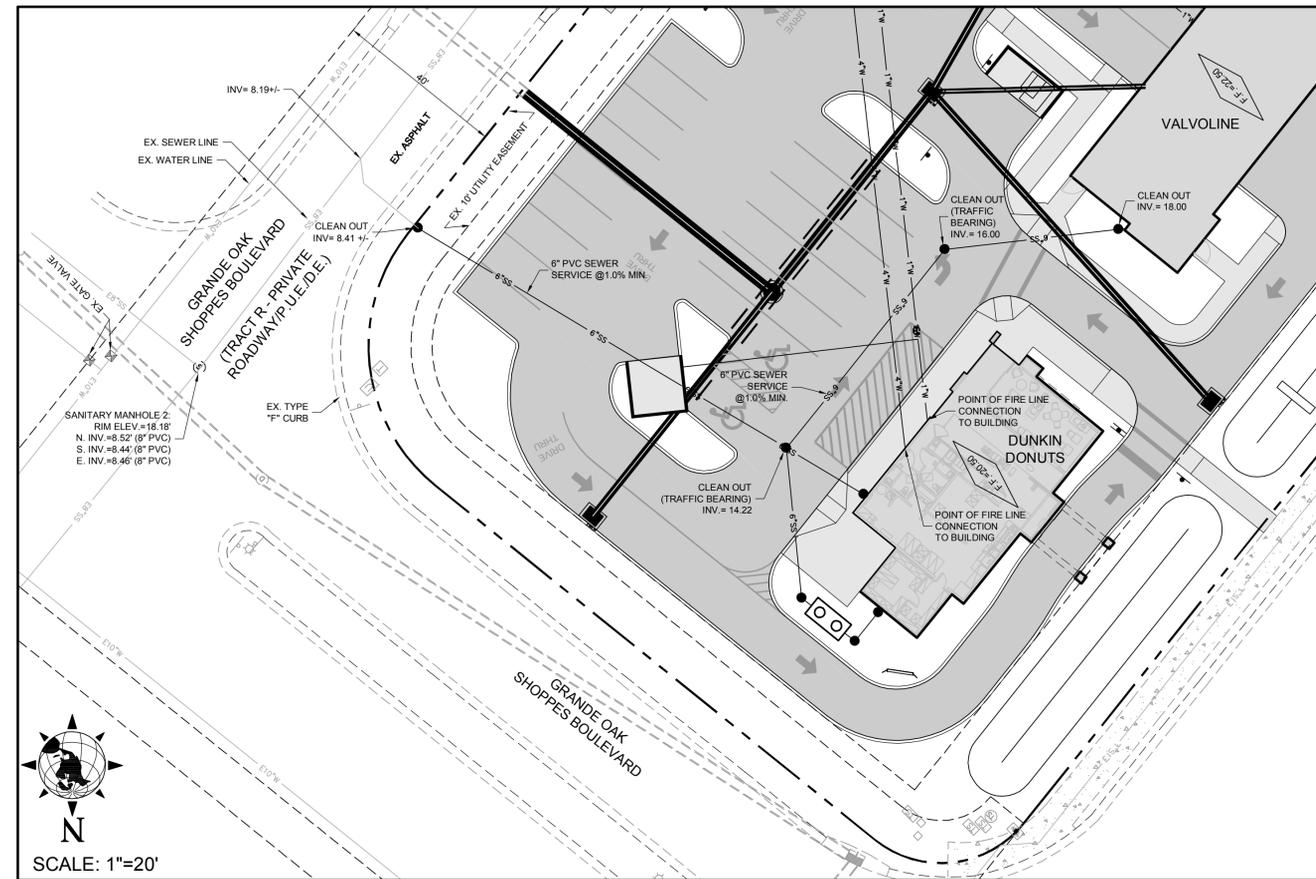
| | |
|---------|----------|
| DATE | 08/10/15 |
| PROJECT | DDE |
| DRAWING | UT |
| DRAWN | SPM |
| CHECKED | MJM |

UTILITY PLAN
DUNKIN DONUTS / VALVOLINE - ESTERO
LEE COUNTY, FLORIDA

| | |
|----------------|------------|
| SCALE | 1"=20' |
| SEC.-TSP.-RNG. | 25-46S-25E |
| SHEET | OF |
| 6.1 | 8 |

MATTHEW J. MORRIS
FL LICENSE NO. 68434





| NO. | DATE | REVISION DESCRIPTION | BY |
|-----|----------|-------------------------|-----|
| 01 | 05/31/16 | ADD PROFILE PER COMMENT | SPM |

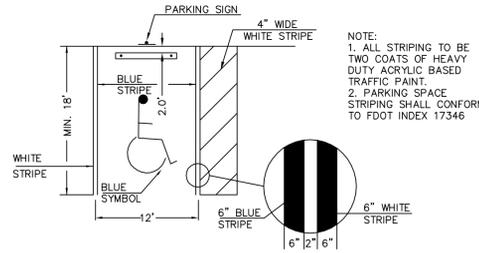
FTP-25



\$250.00 FINE

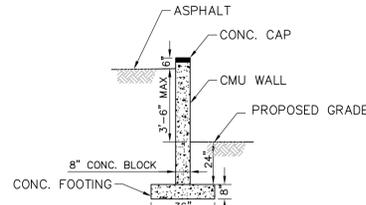
NOTE:
HANDICAP
PARKING SIGN
SHALL BE
INSTALLED 84"
ABOVE GRADE
MEASURED TO
THE BOTTOM OF
THE SIGN.

HANDICAP PARKING SIGN DETAIL



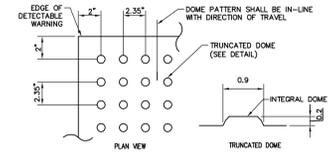
NOTE:
1. ALL STRIPING TO BE
TWO COATS OF HEAVY
DUTY ACRYLIC BASED
TRAFFIC PAINT.
2. PARKING SPACE
STRIPING SHALL CONFORM
TO FDOT INDEX 17346

HANDICAP SPACE DETAIL



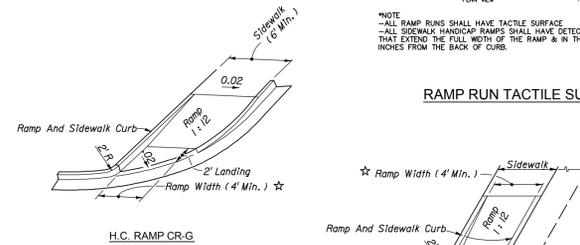
RETAINING WALL

- A) CMU'S TO BE FILLED & CAPPED WITH 3,000 psi CONCRETE.
- B) FOOTING TO BE CONSTRUCTED WITH 3,000 psi CONCRETE.
- C) 2" MINIMUM COVER ON ALL REBAR.
- D) USE #4 REBARS ON 6" CENTERS BOTH WAYS ON FOOTING, NO.4 REBARS ON 8" CENTERS-WALL
- E) ALL EXPOSED CORNERS AND EDGES TO BE CHAMFERED 3/4".



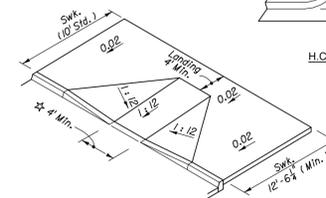
RAMP RUN TACTILE SURFACE

NOTE:
-ALL RAMP RUNS SHALL HAVE TACTILE SURFACE
-ALL SIDEWALK HANDICAP RAMP SHALL HAVE DETECTABLE WARNING SURFACES
THAT EXTEND THE FULL WIDTH OF THE RAMP & IN THE DIRECTION OF TRAVEL 24
INCHES FROM THE BACK OF CURB.



H.C. RAMP CR-G

H.C. RAMP CR-E

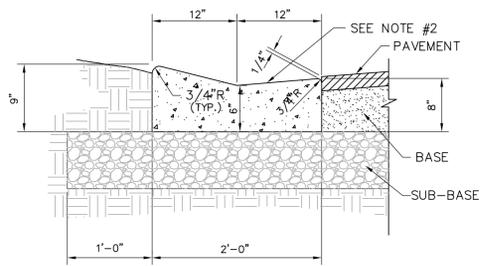


H.C. RAMP CR-A

SIDEWALK RAMP DETAILS

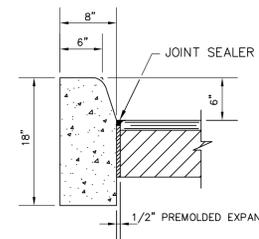
SIDEWALK RAMP CONSTRUCTION SHALL MEET FDOT DESIGN STANDARDS INDEX #304
"EMPLOY COLOR IMPREGNATED TRUNCATED DOMES (TYP.)"

* Ramp Widths For Curb Ramps CR 20, CR 21, CR 22, CR 24, and CR 25 May Be
Reduced To 3' Min. In Restricted Conditions When Approved By The Engineer.



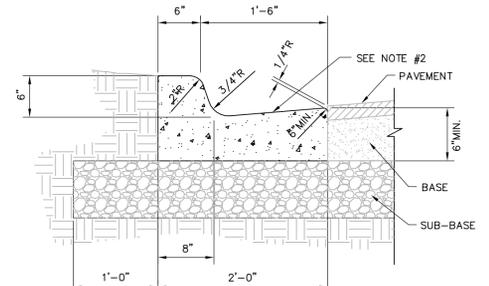
VALLEY CURB

NOTE:
1. CONCRETE TO BE F.D.O.T. CLASS 1 OR EQUAL (2,500 PSI MINIMUM STRENGTH)
2. 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.
3. CONSTRUCTION TO BE ACCORDANCE WITH F.D.O.T. SPECIFICATION SECTION 520.



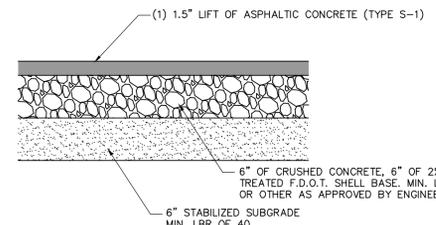
NOTE:
1. CONCRETE TO BE F.D.O.T. CLASS 1 OR EQUAL
(2,500 PSI MINIMUM STRENGTH)
2. CONSTRUCTION TO BE ACCORDANCE WITH F.D.O.T.
SPECIFICATION SECTION 520.

TYPE-D CURB

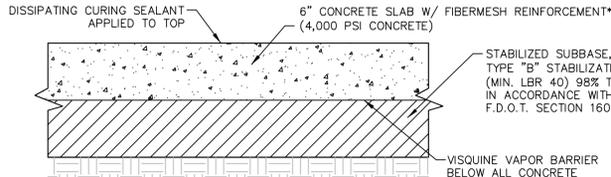


NOTE:
1. CONCRETE TO BE F.D.O.T. CLASS 1 OR EQUAL
(2,500 PSI MINIMUM STRENGTH)
2. WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE
GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT.
THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON
PLANS.
3. CONSTRUCTION TO BE ACCORDANCE WITH F.D.O.T. SPECIFICATION SECTION
520.

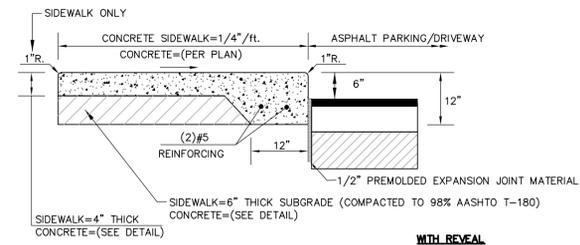
TYPE "F" CURB AND GUTTER



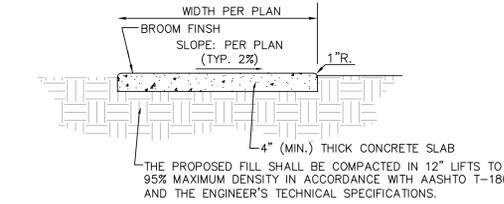
ASPHALT PAVING SECTION



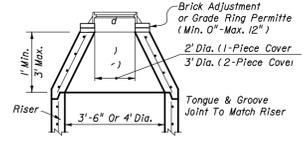
CONCRETE DRIVEWAY PAVEMENT SECTION



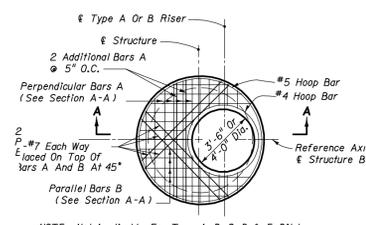
REINFORCED CONCRETE SIDEWALK TO ASPHALT



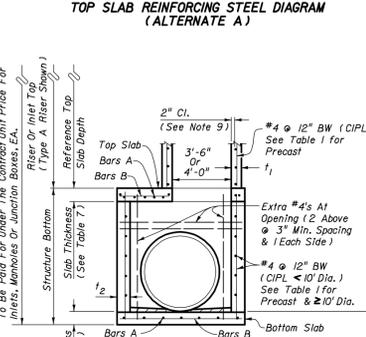
SIDEWALK SECTION



PRECAST CONCENTRIC CONE
TYPE B
MANHOLE TOPS

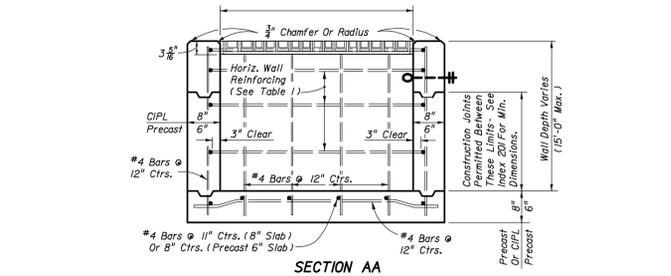


TOP SLAB REINFORCING STEEL DIAGRAM
(ALTERNATE A)

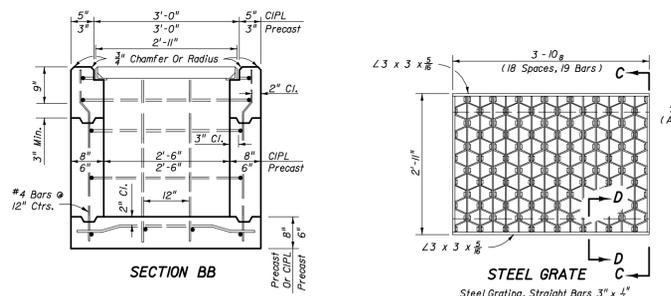


JUNCTION MANHOLE DETAIL

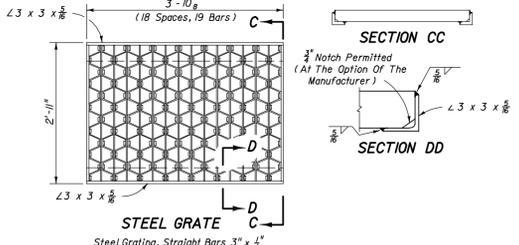
FDOT INDEX 200/201



SECTION AA

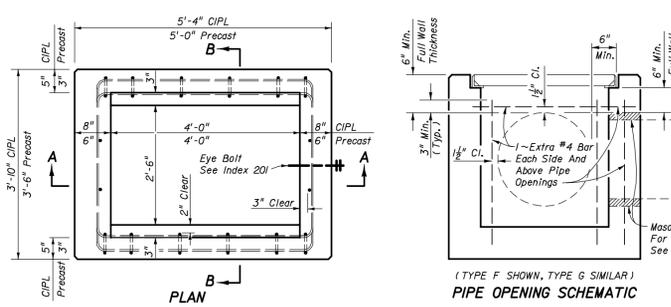


SECTION BB



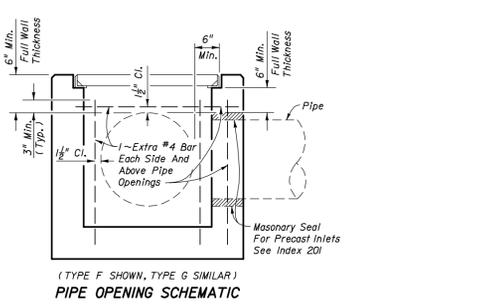
STEEL GRATE

Steel Grating, Straight Bars 3" x 1/2"
Reinforcing Bars 2" x 3/8"



DITCH BOTTOM INLET, TYPE F

FDOT INDEX 233



PIPE OPENING SCHEMATIC



MORRIS ENGINEERING AND CONSULTING, LLC
Civil Engineering and Land Development Consulting
6981 Professional Parkway East, Lakewood Ranch, Florida 34240 C.A.28780 941-444-6644 www.morrisengineering.net

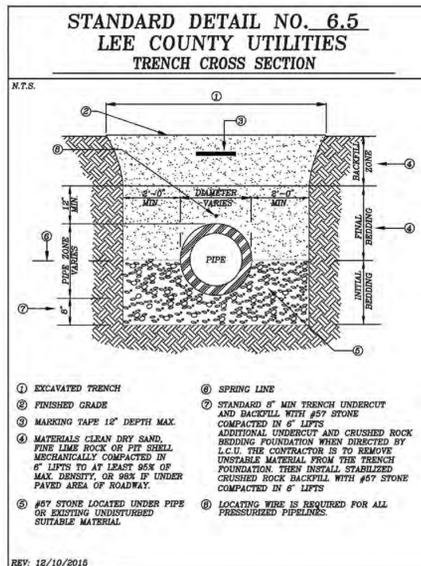
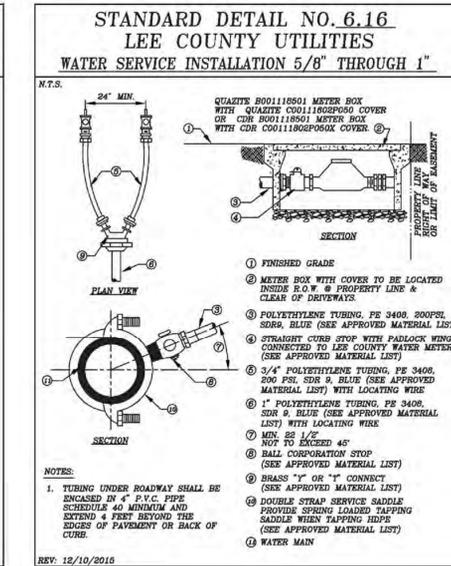
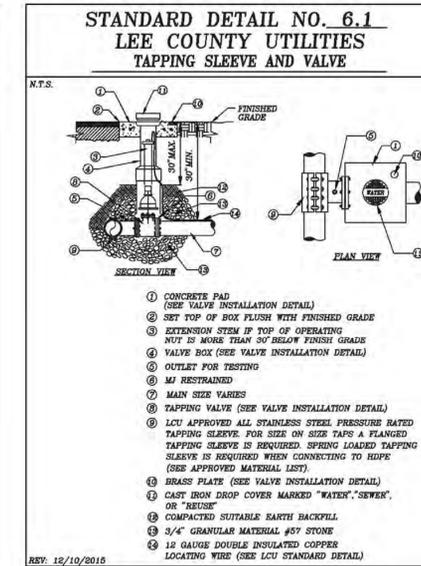
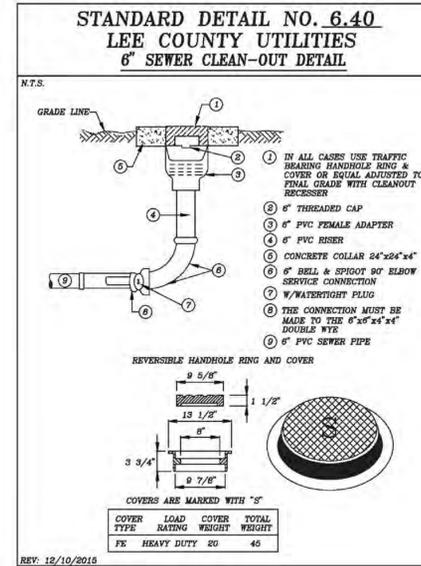
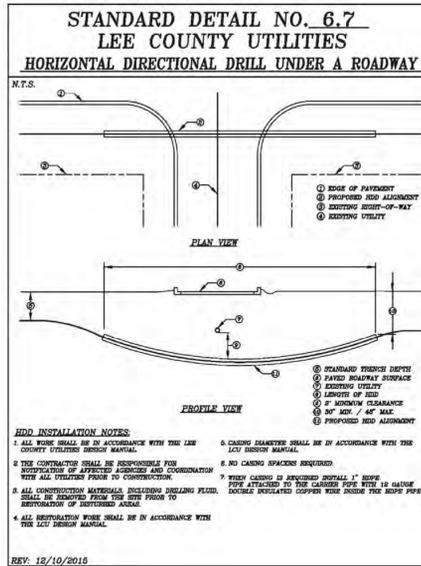
| NO. | DATE | REVISION DESCRIPTION | BY |
|-----|------|----------------------|----|
| | | | |
| | | | |

| | |
|---------|----------|
| DATE | 02/02/14 |
| PROJECT | |
| DRAWING | PGD-DT |
| DRAWN | SPM |
| CHECKED | MJM |

PAVING, GRADING & DRAINAGE DETAILS
DUNKIN DONUTS / VALVOLINE - ESTERO
LEE COUNTY, FLORIDA

| | |
|----------------|------------|
| SCALE | N.T.S. |
| SEC.-TSP.-RNG. | 25-46S-25E |
| SHEET | 7 |
| OF | 8 |

MATTHEW J. MORRIS
FL LICENSE NO. 68434



STANDARD DETAIL NO. 6.12 LEE COUNTY UTILITIES RESTRAINED LENGTH SCHEDULE

DUCTILE IRON PIPE

| PIPE SIZE (Inches) | MINIMUM RESTRAINED PIPE LENGTH (FEET) | | | | DEAD END | HORIZONTAL TEE |
|--------------------|---------------------------------------|-----|---------|---------|----------|----------------|
| | 90° | 45° | 22-1/2° | 11-1/4° | | |
| 4 | 17 | 7 | 4 | 2 | 29 | 8 |
| 6 | 23 | 10 | 5 | 2 | 40 | 17 |
| 8 | 29 | 12 | 6 | 3 | 53 | 28 |
| 10 | 35 | 14 | 7 | 4 | 63 | 38 |
| 12 | 41 | 17 | 8 | 4 | 74 | 49 |
| 16 | 51 | 21 | 11 | 5 | 94 | 69 |
| 24 | 69 | 29 | 14 | 7 | 131 | 105 |
| 30 | 81 | 34 | 17 | 8 | 158 | 129 |

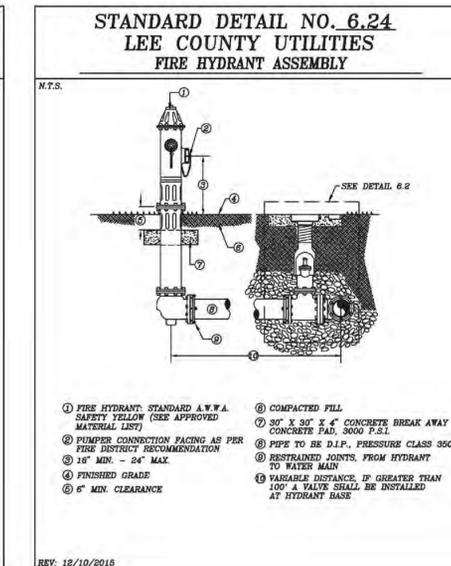
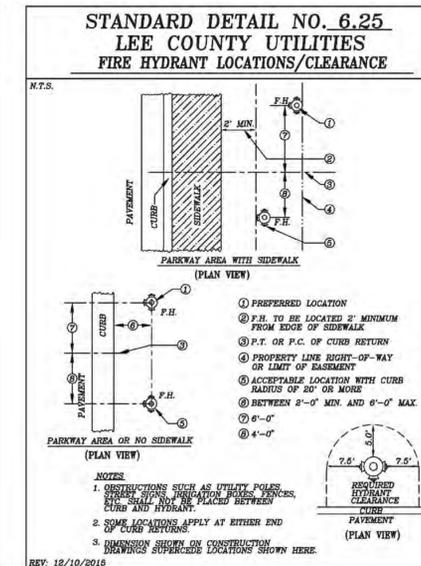
PVC PIPE

| PIPE SIZE (Inches) | MINIMUM RESTRAINED PIPE LENGTH (FEET) | | | | DEAD END | HORIZONTAL TEE |
|--------------------|---------------------------------------|-----|---------|---------|----------|----------------|
| | 90° | 45° | 22-1/2° | 11-1/4° | | |
| 4 | 20 | 8 | 4 | 2 | 45 | 8 |
| 6 | 29 | 12 | 6 | 3 | 63 | 25 |
| 8 | 36 | 15 | 6 | 4 | 89 | 43 |
| 10 | 44 | 18 | 9 | 5 | 99 | 58 |
| 12 | 51 | 21 | 11 | 5 | 116 | 74 |
| 16 | 63 | 26 | 13 | 7 | 149 | 103 |
| 24 | 87 | 36 | 16 | 9 | 208 | 169 |
| 30 | 102 | 42 | 21 | 10 | 248 | 194 |

A COMPLETE JOINT RESTRAINING SCHEDULE FOR ALL ENCOUNTERED VERTICAL & HORIZONTAL BENDS, VERTICAL OFFSETS, TEES, AND DEAD ENDS SHALL BE THE RESPONSIBILITY OF THE DESIGN ENGINEER.

LENGTH FIGURES BASED ON FOLLOWING:
Pressure = 150 psi, FS = 1.5, trench type = 3, 30" cover on bare pipe. Soil type = GP & SP

REV: 12/10/2016



STANDARD DETAIL NO. 6.12 LEE COUNTY UTILITIES RESTRAINED LENGTH SCHEDULE

DUCTILE IRON PIPE

| PIPE SIZE (Inches) | MINIMUM RESTRAINED PIPE LENGTH (FEET) | | | | DEAD END | HORIZONTAL TEE |
|--------------------|---------------------------------------|-----|---------|---------|----------|----------------|
| | 90° | 45° | 22-1/2° | 11-1/4° | | |
| 4 | 17 | 7 | 4 | 2 | 29 | 8 |
| 6 | 23 | 10 | 5 | 2 | 40 | 17 |
| 8 | 29 | 12 | 6 | 3 | 53 | 28 |
| 10 | 35 | 14 | 7 | 4 | 63 | 38 |
| 12 | 41 | 17 | 8 | 4 | 74 | 49 |
| 16 | 51 | 21 | 11 | 5 | 94 | 69 |
| 24 | 69 | 29 | 14 | 7 | 131 | 105 |
| 30 | 81 | 34 | 17 | 8 | 158 | 129 |

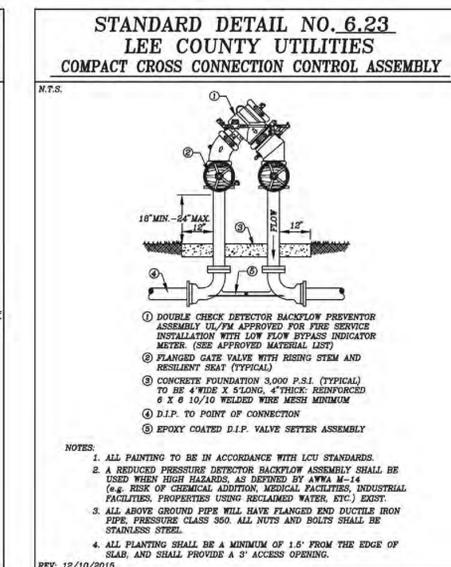
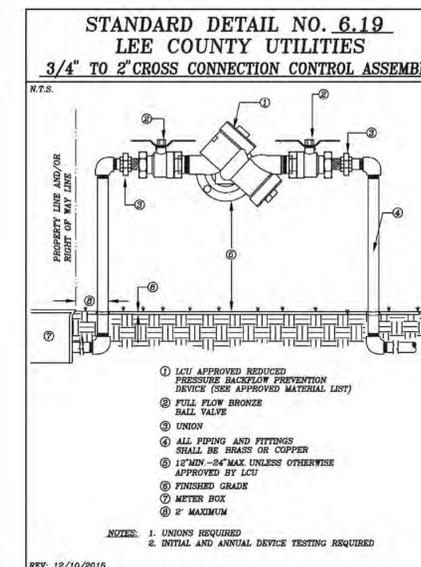
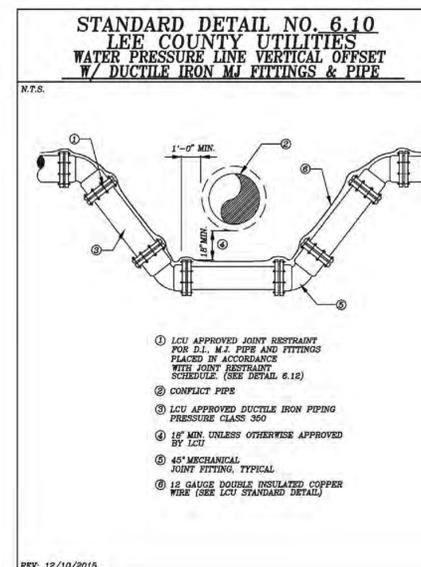
PVC PIPE

| PIPE SIZE (Inches) | MINIMUM RESTRAINED PIPE LENGTH (FEET) | | | | DEAD END | HORIZONTAL TEE |
|--------------------|---------------------------------------|-----|---------|---------|----------|----------------|
| | 90° | 45° | 22-1/2° | 11-1/4° | | |
| 4 | 20 | 8 | 4 | 2 | 45 | 8 |
| 6 | 29 | 12 | 6 | 3 | 63 | 25 |
| 8 | 36 | 15 | 6 | 4 | 83 | 43 |
| 10 | 44 | 18 | 9 | 5 | 99 | 58 |
| 12 | 51 | 21 | 11 | 5 | 116 | 74 |
| 16 | 63 | 26 | 13 | 7 | 149 | 103 |
| 24 | 87 | 36 | 16 | 9 | 208 | 169 |
| 30 | 102 | 42 | 21 | 10 | 248 | 194 |

A COMPLETE JOINT RESTRAINING SCHEDULE FOR ALL ENCOUNTERED VERTICAL & HORIZONTAL BENDS, VERTICAL OFFSETS, TEES, AND DEAD ENDS SHALL BE THE RESPONSIBILITY OF THE DESIGN ENGINEER.

LENGTH FIGURES BASED ON FOLLOWING:
Pressure = 150 psi, FS = 1.5, trench type = 3, 30" cover on bare pipe. Soil type = GP & SP

REV: 12/10/2016



| NO. | DATE | REVISION DESCRIPTION | BY |
|-----|----------|--------------------------|-----|
| 01 | 03/29/16 | ADD DETAILS PER COMMENTS | SPM |

| | |
|---------------|-------------|
| DATE | 08/10/15 |
| PROJECT DDE | |
| DRAWING UT-DT | |
| DRAWN SPM | CHECKED MJM |



DUNKIN'
DONUTS'