



DRAINAGE LEGEND:

- ***** WATERSHED 1 BOUNDARY
- ~ DENOTES DIRECTION OF STORMWATER FLOW

DRAINAGE DATA:

GIVEN:
 DESIGN STORM: 100YR/24HR STORM
 RAINFALL INCHES: 11.5"
 SOIL TYPES: "A"
 IMPERVIOUS CURVE NUMBER: 98
 PVIOUS CURVE NUMBER: 39

DRAINAGE SUMMARY:

THE EXISTING OFF-SITE DRAINAGE RETENTION AREA IS PRIVATELY OWNED AND IS MAINTAINED BY THE HEATHER ISLAND PROPERTY OWNERS ASSOCIATION.
 THE INTENT IS TO ROUTE STORMWATER RUNOFF TO THE OFF-SITE FACILITY VIA INLET AND PIPE SYSTEM.
 THE DESIGN STORM FOR THIS DEVELOPMENT SHALL BE THE 100YR/24HR STORM.
 THE POST-DEVELOPMENT IMPERVIOUS AREA ON LOT 12 IS LESS THAN THE PERMITTED, ALLOWABLE IMPERVIOUS AREA.

DRAINAGE NOTES

1. THE WATERSHED AREA IS DEFINED AS THE PORTION OF THIS PROPERTY AND OFF SITE AREAS THAT CONTRIBUTE TO THE STORM WATER MANAGEMENT SYSTEM FOR THIS SITE.
2. METHOD OF CALCULATION FOR THE WEIGHTED CN IS BY TR-55 "URBAN HYDROLOGY FOR SMALL WATERSHEDS", AND IS DETERMINED BY INTERPOLATION OF TABLE 2-2A (PAGE 2-5).
3. THE DESIGN CRITERIA USED FOR ON-SITE STORAGE IS BASED ON THE MORE CRITICAL OF THE VOLUME OF THE FIRST 1/2" OF RUNOFF FROM EACH WATERSHED, (SWFVMD), AND THE 100YR/24HR STORM EVENT LESS INFILTRATION. STORAGE FOR CLOSED BASINS IS BASED ON MAINTAINING THE VOLUME EQUAL TO THE RUNOFF FOR A 100YR/24HR STORM EVENT LESS INFILTRATION.
4. ALL REQUIRED DRAINAGE CRITERIA HAS BEEN SATISFIED AND THIS PROJECT SHALL DISCHARGE OFFSITE FOR ANY OF THE STORMS LISTED UP TO THE PERMITTED LIMIT.
5. THE ENGINEER SHALL SUBMIT A COMPLETE COPY OF THE ASSIGNED SURVEY PERMIT TO MARION COUNTY TRANSPORTATION DEPARTMENT WHEN IT IS AVAILABLE.
6. AREAS AROUND THE PROPOSED INLETS OR MITERED ENDS SHALL BE GRADED, WHERE INDICATED, OTHERWISE IT SHALL BE FINISH GRADED AND SLOPED, AS SHOWN ON O.T. INDEXES 232 AND 272.
7. THE CONTRACTOR SHALL ABIDE BY STANDARD PRACTICES AND PROCEDURES FOR EROSION AND SEDIMENT CONTROL. III SILT FENCING AND OPTIONAL DANDY BAGS SHALL BE USED AS PERMITTED.

VERTICAL DATA NOTE:

THE VERTICAL DATA ESTABLISHED FOR THIS SURVEY WAS BASED ON THE CITY OF OCALA ENGINEER DEPARTMENT GPS CONTROL POINT "0029", PUBLISHED ELEVATION = 70.70' NGVD-29.

FLOOD CERTIFICATION:

THIS PROPERTY LIES WITHIN ZONE "X" ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP COMMUNITY NUMBER 12053 PANEL C0735 SUFFIX A EFFECTIVE AUGUST 28, 2008.

PERMANENT STABILIZATION NOTE:

ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH SOG.

WATERSHED RUNOFF CALCULATIONS
 PROJECT NAME: 7-ELEVEN SE MARICAMP ROAD (LOT 12)
 GIVEN: 100YR/24HR RAINFALL (INCHES) = 11.50
 WIND LOT 12 POST: 07065 FT² = 1.54 ACRES

SOIL TYPE	% AS	DECIMAL	CURVE #	OVERALL OPEN AREA (SQ FT)
A	39	0.39	58	39
B	41	0.41	58	41
C	74	0.74	82	82
D	89	0.89	98	98

WATERSHED RUNOFF CALCULATIONS
 PROJECT NAME: 7-ELEVEN SE MARICAMP ROAD (LOT 12)
 GIVEN: 100YR/24HR RAINFALL (INCHES) = 11.50
 WIND LOT 12 ALLOWABLE: 87068 FT² = 1.54 ACRES

SOIL TYPE	% AS	DECIMAL	OPEN AREA (SQ FT)	LOT	OVERALL OPEN AREA (SQ FT)
A	39	0.39	39	58	39
B	41	0.41	41	58	41
C	74	0.74	74	82	74
D	89	0.89	89	98	89

POST CONDITION: 100YR/24HR RUNOFF (INCHES) = 1.24
 PRE CONDITION: 100YR/24HR RUNOFF (INCHES) = 0.83
 POST PRE DIFFERENCE: 100YR/24HR RUNOFF (INCHES) = 0.41

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OPERATION AND MAINTENANCE INSTRUCTIONS
 7-ELEVEN SE MARICAMP ROAD, MARION COUNTY, FLORIDA

AS REQUIRED BY WATER MANAGEMENT DISTRICT (SWFVMD), WE ARE ADVISING YOU THAT YOU AND YOUR SUCCESSORS AND ASSIGNS SHALL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE PROPOSED DRAINAGE FACILITIES FOR THE ABOVE REFERENCED PROJECT. THE SWALES AND/OR DRAINAGE RETENTION FACILITIES SHALL BE MAINTAINED ON A REGULAR BASIS AND ANY EROSION SHALL BE REPAIRED AND SOODED IMMEDIATELY UPON DISCOVERY. ANY TRASH OR DEBRIS SHALL BE REMOVED FOLLOWING EACH STORM. ALL DRAINAGE STRUCTURES SHALL BE INSPECTED EVERY SIX (6) MONTHS TO DETERMINE THE NEED FOR ANY REPAIR OR CLEARANCE OF SEDIMENT. SEDIMENT SHOULD BE REMOVED FROM THE PONDS WHEN IT ACCUMULATES TO A POINT AT WHICH STORAGE VOLUMES ARE REDUCED BELOW DESIGN LEVELS.
 IN ADDITION, YOU OR YOUR DESIGNATED REPRESENTATIVE SHALL INSPECT THE SWALES AND/OR DRAINAGE RETENTION FACILITIES MONTHLY AND FOLLOWING HEAVY RAINFALL FOR THE FORMATION OF SINKHOLES. SHOULD A SINKHOLE FORM, YOU MUST FOLLOW ALL APPLICABLE WATER MANAGEMENT DISTRICT PROCEDURES FOR REPAIR. AT SUCH TIME, YOU MUST ALSO NOTIFY THE PROJECT ENGINEER AND THE WATER MANAGEMENT DISTRICT WITHIN 48 HOURS OF DISCOVERY OF SAID SINKHOLE, AND SUBMIT A DETAILED REPAIR PLAN FOR WRITTEN APPROVAL WITHIN 30 DAYS OF SAID DISCOVERY. ANY CHANGES TO THE TYPICAL SINK CHIMNEY REPAIR DETAIL, AS SHOWN ON THE ENGINEERING PLANS, SHALL BE DETERMINED AT THIS TIME BASED ON ACTUAL CONDITIONS.

OIL-WATER SEPARATOR NOTE:

POST-CONDITION, THE INLETS INDICATED ON THIS SITE WILL UTILIZE DANDY SACKS ALONG WITH POLYPROPYLENE OIL ABSORBENT PILLOWS. REQUIRED METHODS OF MAINTENANCE ARE OUTLINED SEPARATE FROM THESE PLANS. (SEE BMP DOCUMENTATION)

OPERATION & MAINTENANCE CERTIFICATION:

I HEREBY CERTIFY THAT I AND MY SUCCESSORS AND ASSIGNS SHALL PERPETUALLY MAINTAIN AND OPERATE THE IMPROVEMENTS AND DRAINAGE FACILITIES AS SHOWN ON THIS PLAN.

DATE: JOHN S. RUDNANYN, TRUSTEE
 2441 N.E. 3RD STREET, SUITE 201
 OCALA, FLORIDA 34470
 PHONE: (352) 629-6101
 EMAIL: JOHN@ISSOCALA.COM

REVISION DESCRIPTION:

DATE	DESIGNED BY: PM	DRAWN BY: PM	CHECKED BY: PM

ENGINEER'S CERTIFICATION:

DATE: 08/25/20
 DESIGNED BY: PM
 DRAWN BY: PM
 CHECKED BY: PM
 DATE: 08/25/20

MASTROSERIO ENGINEERING, INC.
 CIVIL & ENVIRONMENTAL SITE DESIGN
 170 SE 32ND PLACE
 OCALA, FL 34471
 PH: (352) 343-2188
 FACLO@MASTROSERIOENGINEERING.COM

PROJECT: 7-ELEVEN SE MARICAMP RD - MAJOR SITE PLAN
 MARION COUNTY, FL SEC. 08, TWP. 16, RGE. 23

TITLE: DRAINAGE PLAN

SCALE: 1" = 20'

JOB#: 20-05

SHEET C5 OF 11

