## License No. 57553 This Item has been digitally signed and sealed by James. C. Nugent, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies. Div. c=US, o=Unaffiliated, o=Unaffili FONTANA CONCEPTUAL MASS GRADING PLANS

OSCEOLA COUNTY, FLORIDA

PREPARED FOR

FONTANA LAKES, LLC 2405 W. PRINCETON STREET, UNIT 2 ORLANDO, FL 32804 407.293.6562 CONTACT: JEFF FUQUA

## SITE DATA

PROJECT AREA ±677.4 ACRES

**EXISTING ZONING** MIXED USE SEWMD APP. NO. 210308-5538

REVISED JUNE 17, 2021 MAY 2, 2018

SURVEYORS



## CONSULTANTS

# Owner: Fontana Lakes, LLC 2405 W. Princeton Street, Unit 2 Orlando, Fl. 32804 Contact: Jeff Fugua Phone (407) 293-6562

## Engineer/Surveyor: ineer/Surveyor: Donald W. McIntosh Associates, Inc. 2200 Park Avenue North Winter Park, Florida 32789 Contact: James Nugent, P.E. Phone (407) 644-4068

Digitally signed by

James C Nugent:

Florida, Professional Engineer, License No. 57553

DEVO Engineering 5500 Alhambra Drive Orlando, FL 32808-70004 Contact: Devo Seereeram, PhD., P.E. Phone (407) 290-2371

Bio-Tech Consulting Inc. 3025 East South Street Orlando, FL 32803 Contact: Steve Butler Phone (407) 894-5969

## SHEET INDEX

NOTES, SPECIFICATIONS AND LEGEND LEGAL DESCRIPTION AND SKETCH C011-C014 EXISTING CONDITIONS PLAN WETLAND PRESERVATION AND IMPACT PLAN EROSION AND SEDIMENTATION CONTROL PLAN EROSION CONTROL AND TREE PRESERVATION DETAILS MASTER DRAINAGE PLAN TYPICAL POND SECTIONS AND DETAILS CONTROL STRUCTURE DETAILS PERIMETER CROSS SECTIONS GRADING AND DRAINAGE DETAILS

C001

VICINITY MAP PROPERTY APPRAISER PARCEL ID #

SECTION 27, 28, 33 & 34, TOWNSHIP 26 S, RANGE 30 E

27-28-30-4950-0001-1210, 28-28-30-4950-0001-130, 28-28-30-4950-0001-180, 33-28-30-0000-0010-000 33-28-30-4950-0001-000 33-28-30-4950-0001-003 33-28-30-4950-0001-0001-0000 33-28-30-4950-0001-0000 33-28-30-4950-0001-0000 33-28-30-4950-0001-0000 33-28-30-4950-0001-0000 33-28-30-4950-0001-0000 33-28-30-4950-0001-0000 33-28-30-4950-0001-0000 33-28-30-4950-0001-0000 33-28-30-4950-0001-0000 33-28-3000 30-2000 30-2000 30-2000 30-2000 30-2000 30-2000 30-2000 30-2000 30-2000 30-2000 30-2

Permit No. 49-100503-P

## GENERAL NOTES:

O1. CONTRACTOR SHALL REVIEW ALL PERMITS PRIOR TO CONSTRUCTION FOR ANY CHANGES TO THE DESIGN INCLUDED THEREIN. NOTIFY ENGINEER/OWNER OF ANY REQUIRED CHANGES PRIOR TO CONSTRUCTION.

- TIED TO) ARE:
  WATER MANAGEMENT DISTRICT ENVIRONMENTAL RESOURCE PERMIT (ERP)
  WATER MANAGEMENT DISTRICT WATER USE FOR CONSTRUCTION DEWATERING (CUP)
  ACCE NATION/MIDE OR INDIVIDUAL DREDGE AND FILL
  FLORIDA FISH, AND WILLDIFE CONSERVATION COMMISSION TORTOISE RELOCATION

33. FLORIDA STATUTE 596 MANDATES THAT NOT LESS TMAN TWO FULL BUSINESS NAYS BEFORE BEGINNON ANY EXCAVATION OF OBMOLITION THAT IS NOT BENEATH RECEINING EXCAVATION OF DEMOLITION THAT IS BENEATH WATERS OF THE STATE, NE DEMOATOR SHALL NOTIFY SUMSHINE STATE ONE CALL OF FLORIDA, INC. 800—432—4770 OF PLANNED EXCAVATION OF DEMOLITION ACTIVITIES.

IN ISSUANCE, OF CERTIFICATES OF COMPLETION.

OT. CONTRACTOR SHALL FURNISH OWNER WITH ACCURATE RECORD DRAWNOS SURVEY SHOWING AS—CONSTRUCTED HORIZONTAL AND VERTICAL DIMENSIONING OF SURVEY SHOWING. THE SUBMITTAL COPY OF THE RECORD DRAWNOS WILL NOT SEE PETURVED. THE RECORD DRAWNOS OF A REPRODUCIBLE COPY PREPARED BY NORMANION WILL NOT SHOW THE PROPERTY OF THE PROPERTY

14. CONTRACTOR SHALL CONFIRM COMPATIBILITY OF PIPE SLOPES AND INVERTS DURING SHOP DRAWING AND MATERIALS ORDERING PHASE OF PROJECT AND ADVISE ENGINEER OF ANY DISCREPANCIES. NO EXISTING MATERIAL SHALL BE USED IN NEW CONSTRUCTION UNLESS APPROVED DURING THE SHOP DRAWING APPROVAL PROCESS.

16. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ENGINEERING AND AGENCY APPROVAL PRIOR TO PROCUREMENT OF MATERIALS.

17. CONTRACTOR TO SUBMIT COPIES OF ALL TESTING REPORTS TO THE OWNER AND ENGINEER FOR ACCEPTANCE AND CERTIFICATIONS. 19. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING PROPER TRAFFIC MAINTENANCE AND CONTROLS IN ACCORDANCE WITH REQULATORY STANDARDS, WHERE A TRAFFIC MAINTENANCE PLAN IS REQUIRED. IT SHALL BE PREPARED BY A FOOT CERTIFED DESIGNER AND SUBMAITTED BY CONTRACTOR FOR APPROVAL BY OWNER, ENGINEER AND GITY OR COUNTY.

ENORIZE AND CITY OR COUNTY.

SOL IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROJECT SITE DURING CONSTRUCTION, TO PREVENT INSEPASSING OF UNAUTHORIZED PUBLISHMANS AND/OR REPORT OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROSESS. HE ENORIZED ASSUMES NO RESPONSIBILITY FOR TRESPASSING ON THE CONSTRUCTION SITE OR DAMAGES TO ANY MORK REALED THERETO.

CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTIES FROM DAMAGE BY SEDIMENTATION OR OTHER POTENTIAL CONSTRUCTION RELATED CAUSES.

23. ALL FOOT DESIGN INDICES ARE HEREBY INCORPORATED AS PLAN REFERENCES HEREIN. CONTRACTOR IS RESPONSIBLE FOR OBTAINING COMPLETE COPIES OF ALL APPLICABLE NDEX DRAWINGS AND CONSTRUCTING ALL WORKS IN CONFORMANCE WITH THE FOOT ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION.

## GRADING & DRAINAGE NOTES:

01. SITE GRADING AND DRAINAGE MATERIALS AND CONSTRUCTION SHALL CONFORM TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2008 EDITION, INSOFAR AS THEY APPLY TO THE DESIGNS HEREIN, AND THE CITY OF ORLANDO

03. BENCHMARK LOCATION AND ELEVATION ARE AS REPRESENTED BY SURVEYOR AT THE TIME OF THE SURVEY. CONTRACTOR SHALL VERIFY ITS CORRECTNESS AT TIME OF CONSTRUCTION.

MER-SOURCE RECESSION 1 OF PROVIDE TROVILLE THOUGH SHE AS—BUILT DIMENSIONS AND ELEVATIONS OF THE STORMWATER MANAGEMENT AREAS MANEDIATELY AFTER FINAL GRADING AND FROM FOR TO GRASSION THE SLOPES, AT A MINIMUM, CONTRACTOR MUST OBTAIN ENGINEER'S APPROVAL PRIOR TO GRASSION, IF ANY MODIFICATIONS ARE NEEDED, ADDITIONAL AS A PROMISED OF THE STORM FOR THE STOR

06. GEOTECHNICAL SERVICES HAVE BEEN PROWDED AS REFERENCED BELOW, GEOTECHNICAL RECOMMENDATIONS ARE NOT THE RESPONSBULTY OF DONALD W. MENTOS ASSOCIATES, INC. DONALD W. MENTOS ASSOCIATES, INC. DONALD W. MENTOS ASSOCIATES, INC. MAS RELIED ON DRAWNGS. ANY CONFLICT BETWEEN INFORMATION WHITH THE REPORT AND THESE DRAWNGS SHALE REPORTED TO ENGNEET, OWNER, DONALD W. MONTOSH ASSOCIATES, INC. ASSUMES NO RESPONSBULTY FOR THE CORRECTIVESS, COMPLETENESS OF ACCURACY OF GEOTECHNICAL INFORMATION.

07. ELEVATIONS OF GRASSED AREAS ARE GIVEN AT FINISHED GRADE (TOP OF SOD OR SEFDED SURFACE).

STELLIFU MINIERAL FUNDAL TO STATE OF CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UITILITIES CRITICAL TO COMPLETING THE PROJECT (INCLUDING WATER, SWERF, POWER, TREEPHONE, GAS, AND CABLE TV) AND SHALL EVALUATE POTENTIAL CONFLICTS. ALL SUCH CONFLICTS SHALL BY SHALL SHALL SHALLOWER WAS ASSETTED.

17. CONTRACTOR SAUL REMOVE ALL MUCK EPPORTS IN CONSTRUCTION AREAS AND AREAS TO BE FILLED. SEE GEOTECHNICAL REPORT. TO SEE THE SEE THE

20. NEW PIPES SHALL BE CONNECTED TO EXISTING PIPES AT AN EXISTING FACTORY MADE JOINT. REMOVE PARTIAL PIPES IF AND AS NEEDED. 21. CONTRACTOR SHALL PROVIDE A SOIL TRACKING PREVENTION DEVICE CONFORMING TO SHEET CID2 AT ALL PROJECT CONNECTIONS TO PUBLIC OR PRIVATE ROADWAYS THAT ARE TO BE USED BY CONSTRUCTION TRAFFIC.

26. ALL CONCRETE WORK SHALL BE 3000 PSI MINIMUM, UNLESS OTHERWISE

27. STORM SEWERS WILL BE TESTED ACCORDING TO THE REQUIREMENTS OF SECTION 9.03.05 OF THE CITY OF ORLANDO E.S.M., INCLUDING VIDEO TAPING OF CONCRETE PIPE AND CLEANING, VIDEOTAPING AND MANDREL TESTING OF PLASTIC AND METAL IPPE. 28. FILL PLACEMENT AND SPECIFICATIONS SHALL CONFORM TO THE RECOMMENDATIONS OF THE PROJECTS GEOTECHNICAL CONSULTANT.

## MASS GRADING SPECIFICATIONS (PREPARED BY DEVO ENGINEERING) EROSION & SEDIMENT CONTROL NOTES:

ENSURE THAT THE SITE IS PROPERLY CLEARED AND GRUBBED

CUT AND FILL THE AREAS IDENTIFIED FOR RE-PROFILING AND COMPACT THE FILL MATERIAL AND RESULTING SUBGRADE TO 95% MODIFIED PROCTOR DENSITY.

UPON APPROVAL OF THE PROJECT GEOTECHNICAL ENGINEER, THE EXCAVATED AREA MAY BE BACKFILLED WITH CLEAN FINE SAND FREE OF UNSUITABLE OR DELETERIOUS MATERIAL. THE FILL SHOULD NOT BE PLACED IN STANDING WATER.

MATERIALS TO BE USED FOR FILLING SHALL BE FINE SANDS, SLIGHTLY SILTY FINE SANDS, AND SILTY FINE SANDS, THE DISTINCTION BETWEEN THE SOIL TEXTURAL CLASSIFICATIONS IS BASED ON THE ENGINEERING SUITABILITY OF FILL FROM STORMWATER PONDS:

THE DEFORMATIONS OF SALES.

IT IS RECOMMENDED THAT THE POPTIONS OF THE ROAD ALGNMENT AND THE FOOTPRINT OF ANY / DEVELOPMENT ELEMENT PLUS A DISTANCE OF 5 FT ON THE SDES, WHICH CONTAIN SURFROAL MANY DEVELOPMENT ELEMENT PLUS A DISTANCE OF STORY OF THE STO

RECOMMENDATIONS FOR GENERAL MASS GRADING OPERATIONS:

STRIP THE TOPSOIL TO A DEPTH OF AT LEAST 6 INCHES, ROOT RAKE TO A DEPTH OF 12 INCHES AND THEN COMPACT TO 95% MODIFIED PROCTOR DENSITY.

5. A REPRESENTATIVE OF THE PROJECT GEOTECHNICAL ENGINEER SHOULD BE RETAINED TO PROVIDE ONSITE INSPECTION DURING THE DEJUCKING OPERATION AND TESTING OF THE COMPACTED FILL TO ENSURE COMPLIANCE WITH THE RECOMMENDATIONS ABOVE

OI. BECAUSE OF THE PROJECT'S PRODUITY TO ADJACENT LAKES, CONTRACTOR SHALL MAKE VERY FEFORT TO MININEE EROSIN, ON ERIAN SEBMENT WHICH UNAVOIDABLY MILL RESULT FROM ONSTE CONSTRUCTION ACTIVITIES, TO PREVENT SHALL MAKE VERY SHALL WE WAS A SHALL WAS A

OB. THE RECOMMENDED GENERAL SEQUENCE OF CONSTRUCTION FOR ALL BASINS IS AS FOIL DWS:

A. PLACEMENT OF PERIMETER PROTECTIVE MEASURES (SILT FENCE, HAY BALES, ETC.) AROUND ONSITE LAKES, AT POINTS OF OFFSITE DISCHARGE, AND AROUND WORK AREAS. B. REROUTE RUNOFF FROM AREAS OUTSIDE OF THE DEVELOPMENT AREA TO MINIMIZE FLOW THROUGH AREAS TO BE DISTURBED BY CONSTRUCTION. BERMS, SWALES AND OTHER MEANS USED FOR SUCH CONVEYNICE SHALL BE VEGETATED AND MEASURES TAKEN TO PROVIDE PROTECTION UNTIL STABILIZATION HAS BEEN ESTABLISHED.

F. GRASSING, SODDING, ETC. SHALL BE IN PLACE IMMEDIATELY UPON COMPLETION OF DISTURBED AREAS WITHIN PROJECT AREA.

13. CONTRACTOR SHALL PROVIDE INSPECTIONS BY QUALIFIED PERSONNEL OF ALL POINTS OF DISCHARGE, DISTURBED AREAS NOT YET FINALLY STABILIZED, STORAGE AREAS EXPOSED TO RAINFALL, STRUCTUREAL CONTROL AND VEHICULAR ACCESS LOCATIONS. INSPECTIONS SHALL BE MADE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE EDO OF A STORM THAT IS 0.5 NOKES OR GREATER.

VERTICAL DATUM NOTES:
01. EXISTING TOPOGRAPHY AND CONTOURS BASED ON THE FOLLOWING:
0SCECULA COUNTY 2016 LIDAR TOPOGRAPHY.

O2. REFERENCE BENCHMARK:
DESCRIPTION:
DESCRIPTION:
D7 55 (NAVOSD)

LOCATION: ON THE SOUTH R/W LINE OF FRIAR'S COVE ROAD ±560 FEET EAST OF THE WEST LIMIT OF SAID R/W.

06. 100-YEAR FLOOD LIMITS SHOWN GRAPHICALLY HEREIN ARE TAKEN FROM THE REFERENCED FEMA FIRM PANELS BY GRAPHIC CORRELATION OF TOPOGRAPHY.

06. CONTRACTOR SHALL REMOVE ALL NON-REUSABLE WASTE MATERIAL, AT THE OWNERS DIRECTION, FOR DISPOSAL OFF-SITE. DISPOSAL SHALL CONFORM TO ALL APPLICABLE REGULATION

≥.

RMITTING

**PLANS** 

MCINTOSH DELANNERS
JORTH, WINTER PARK, FIRCATE OF AUTHORIZATE

DATE

5/2/18

DONALD ENGINEERS

JAMES C. FLORIDA P.E.

FONTANA MASS GRADING I LA COUNTY, FLORIDA

CONCEPTUAL OSCEOLA SHEET CO02





























































