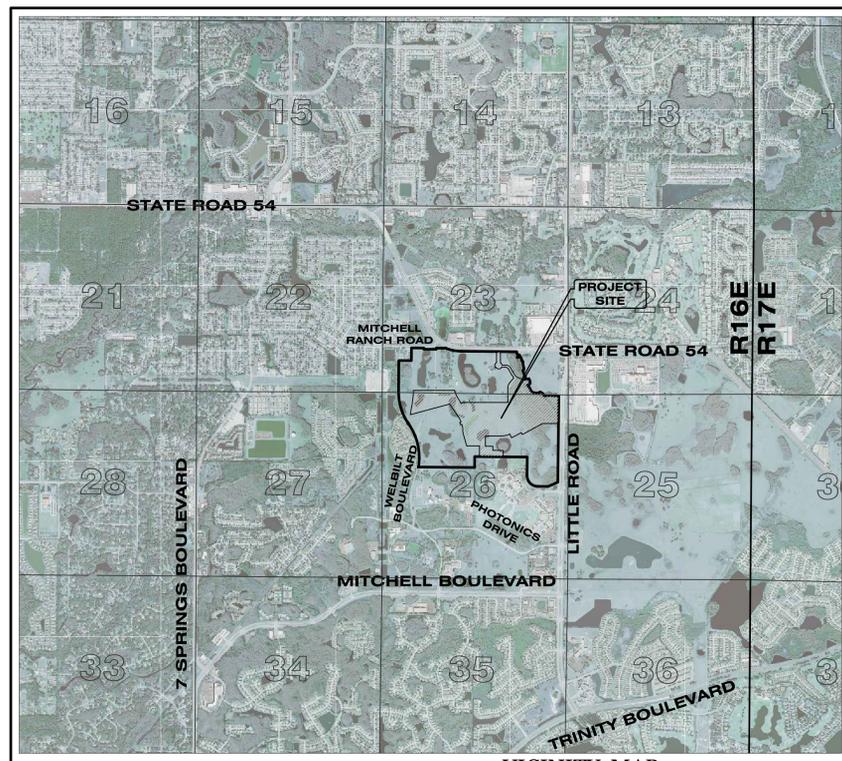


MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS

CONSTRUCTION & STORMWATER MANAGEMENT PLAN (CP/SW)



VICINITY MAP
PASCO COUNTY, FLORIDA
SECTION 23 & 26, TOWNSHIP 26 SOUTH, RANGE 16 EAST

INDEX OF CONSTRUCTION PLANS

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THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS, STATE OF FLORIDA IN EFFECT AT THE TIME OF PASCO COUNTY APPROVAL, AND ARE IN COMPLIANCE WITH THE STANDARDS THEREIN EXCEPT AS NOTED ON THE PLANS. ANY DEVIATIONS NOTED ON THE PLANS SUBSTANTIALLY COMPLY WITH THE INTENT OF THE STANDARDS.

PREPARED FOR:
LENNAR HOMES
4600 W. CYPRESS ST.
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TAMPA, FL 33607

PREPARED BY:
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PERMIT / FILE NOS.	
PASCO PDD PROJECT NO.	CPSW-2019-00039
FGUA PROJECT NO.	PENDING
SWFWMD ERP/APPLICATION ID NO.	789073
WATER DEP	PENDING
SEWER DEP	PENDING
RECLAIMED WATER DEP	PENDING
PARCEL ID NO.	26-26-16-0000-01000-0000 23-26-16-0000-01900-0000



MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS			
DATE:		BRIAN G. SURAK P.E. NO. 59064 FLORIDA PROFESSIONAL ENGINEER	
DATE:	10-07-2019	JOB NO.:	LNH-MR-014
Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet			
STREET & DRAINAGE		WATER & SANITARY SEWER	
DESIGNED BY:	MELVIN	DESIGNED BY:	MELVIN
DRAWN BY:	DROOR	DRAWN BY:	DROOR
FILE:	CV	SHEET 1 OF 45	
10-07-2019		PASCO CO. & SWFWMD RESUB. SHEETS 1-27, 29, 31-32, 36-39, 40-45 PERMIT PLANS	
DATE	SHEET NO.	BY	
REVISIONS			

Pasco County Landscaping Standard Notes (Pasco LDC 905.2)

- Maintenance Responsibility. The County is not responsible for maintenance of any landscaping unless approved through a County maintenance agreement. (LDC 905.2-C.1.a)
- Clear-Sight Triangle. Where a driveway/accessway intersects a road right-of-way or where two (2) road rights-of-way intersect, vegetation, structures, and non-vegetative visual screens shall not be located so as to interfere with the clear-sight triangle as defined in this Code or the Florida Department of Transportation, Manual of Uniform Minimum Standards, most recent edition (Green Book), whichever is more restrictive. (LDC 905.2-C.1.b)
- Sustainable Practices. Landscaping shall be installed so that landscaping materials meet the concept of right material/right place. Installed trees and plants shall be grouped into zones according to water, soil, climate, and light requirements. Plant groupings based on water requirements are drought tolerant, natural, and oasis. (LDC 905.2-C.1.c)
- Diversity. A maximum of 50 percent of the plant materials used, other than trees, may be non-drought tolerant. A minimum of 30 percent of the plant materials, other than trees and turfgrass, used to fulfill the requirements of this subsection shall be native Floridian species, suitable for growth in the county. (LDC 905.2-C.1.d)
- Diversity. No one plant species of shrubs or ground cover plants, excluding turfgrass, shall constitute more than 25 percent coverage of the overall landscape area. (LDC 905.2-C.1.d.5)
- Quality. All plant materials shall be Florida No. 1 grade per "Grades and Standards for Nursery Plants," Florida Department of Agriculture and Consumer Services (FDACS), which is incorporated herein by reference. (LDC 905.2-C.2.a)
- Avoid Easements. Trees shall not be planted within any easement so as to interfere with the use of that easement, nor under any present or planned overhead utility, nor in any rights-of-way without County approval through the associated review process. (LDC 905.2-C.3.c)
- Mulch shall be used in conjunction with living plant materials so as to cover exposed soil. Mulch shall be installed to a minimum depth of three (3) inches. The mulch should not be placed directly against the plant stem or tree trunk. Mulch shall not be required for annual beds. Stone or gravel may be used to cover a maximum of 20 percent of the landscaped area. (LDC 905.2-C.3.d)
- Quality Practices. All landscaping shall be installed in accordance with standards and practices of the Florida Nursery, Growers, and Landscape Association and the Florida Chapter of the International Society of Arboriculture. (LDC 905.2-C.3.e)
- All portions of a lot upon which development has commenced, but not continued for a period of 30 days, shall be planted with a grass species or ground cover to prevent erosion and encourage soil stabilization. Adequate coverage, so as to suppress fugitive dust, shall be achieved within 45 days. (LDC 905.2-C.3.g)
- All required landscaping shall be maintained in a healthy condition in perpetuity in accordance with this Code. (LDC 905.2-E.2)
- Ongoing maintenance to prevent the establishment of prohibited exotic species is required. (LDC 905.2-E.4)

GENERAL CONSTRUCTION NOTES:

- Prior to the start of clearing and grubbing, or any soil disturbance the contractor shall contact Pasco County Stormwater Management at (727) 834-6311 for a soil erosion and sediment control pre-inspection meeting.
- Prior to construction, the Contractor shall obtain from the Engineer or Owner a copy of all pertinent permits related to this project. It is the Contractor's responsibility to assure that all construction activities are in compliance with the conditions of all permits and approvals. Contractor must provide a Dewatering Plan, if applicable, to Pasco County Engineering Inspections Department at (727) 834-3670 for review prior to the erosion control pre-inspection. The Contractor is also responsible for having his dewatering plan approved by SWFWMD.
- All construction, materials and workmanship are to be in accordance with Pasco County Land Development Code and DOT Specifications, latest editions.
- Grass and mulch, or solid sod, all areas in existing rights-of-way disturbed by construction in the proposed rights-of-way a 16' wide area behind the back of curb shall be solid sodded. The remainder of the proposed rights-of-way shall be stabilized with Sod or Seed & Mulch in accordance with applicable County standards. On slopes 4:1 and flatter, seed & mulch may be used. On slopes steeper than 4:1, sod shall be used. Sod slopes steeper than 4:1 shall be installed with sod pegs per County standards.
- Contractor is to coordinate all work within, but not limited to Pasco County right-of-way. Debris is considered an environmental/contamination hazard and making of adjustments to same, if required.
- Suitable fill obtained through excavation of streets and detention ponds shall be placed on lots and adjacent land in accordance with the Master Drainage and Grading Plan as directed by the Engineer.
- Sod/Seed & Mulch shall be placed in accordance with applicable City/County standards as well as in accordance with standard and specific conditions in the SWFWMD permit, if applicable. At a minimum this shall include sodding of all pond embankments of a slope 4:1 or greater to the NW (SHWL) line, as well as sodding and mulching of the embankment of the pond, or such debris to be buried in temporarily excavated passive recreation/park areas (at least 30 feet from any structure) at approved depths/locations, but all these disposal areas will require adequate soil mixing (mix soil with the mulch) and then refilling (with compaction) to required design grades.
- Site clearing shall be performed per the approved construction plans and in accordance with Pasco County Land Development Code. Installation and maintenance of the required barricading and erosion control shall be the responsibility of the site development contractor unless otherwise designated.
- Prior to beginning construction, Contractor shall expose all existing utility inverts to which a tie-in is proposed and have Engineer verify the elevation and adequacy of these inverts.
- All subsurface construction shall comply with the "Trench Safety Act." The Contractor shall ensure that the method of trench protection and construction is in compliance with the Occupational Safety and Health Administration (OSHA) regulations.
- Siltation accumulations greater than the lesser of 12 inches or one-half the depth of the siltation barrier shall be immediately removed and placed in upland areas.
- During land alteration and construction activities, it shall be unlawful to remove vegetation by grubbing or to place soil deposits, debris, solvents, construction material, machinery, or equipment of any kind within the drip-line of a tree to remain on the site unless otherwise approved by the County.
- All erosion control installation and installation coordination shall be the responsibility of the Contractor. Clearview Land Design, if contracted by the Owner, will take the alignment of the proposed erosion control and shall limit its responsibility and coordination at that point. Be advised that the construction approval and maintenance of the erosion control shall be the sole responsibility of the Site Contractor.
- Building downspouts to be directed to the on-site storm drainage system.
- Future expansion areas, if disturbed, to be seeded and mulched or sodded to prevent erosion to existing pavement surfaces.
- Should any noticeable soil slumping or sinkhole formation become evident, the applicant/developer shall immediately notify the County, Tampa Bay Water (TBW), and SWFWMD, and adopt one or more of the following procedures as determined to be appropriate by the County and SWFWMD:
 - If the slumping or sinkhole formation becomes evident before or during construction activities, stop all work (except for mitigation activities) in the affected area and remain stopped until the County and SWFWMD approve resuming construction activities.
 - Take immediate measures to ensure no surface water drains into the affected areas.
 - Visually inspect the affected area.
 - Excavate and backfill or put as required to fill the affected area and prevent further subsidence.
 - Use soil reinforcement materials in the backfilling operation when appropriate.
 - If the affected area is in the vicinity of a water-retention area, maintain a minimum distance of two feet from the bottom of the retention pond to the surface of the limerock or karst connection.
 - If the affected area is in the vicinity of a water-retention area and the above methods do not stabilize the collapse, relocate the retention area.
 - Discharge of stormwater into depressions with direct or demonstrated hydrologic connection to the Floridan Aquifer shall be prohibited.
- The site shall be graded to within 12 inches of the final grade. Where fill is proposed it shall be placed in compliance with the geotechnical/geological engineering report recommendations (including any lift depths recommended) and compacted to a minimum density of 95% of the modified Proctor maximum dry density. Density tests to confirm compaction shall be required within the building pad area, before the next lift is placed. Upon completion of the land development construction, a professional engineer shall provide a certification to Pasco County that the project, including each pad area, complies with the recommendations of the geotechnical/geological engineering report.
- The engineer responsible for the project shall certify to the County Engineering Services Director (thru PE Engineering Inspections) that the select material below the stabilized subgrade meets these standards prior to installation of the Base. Certification shall strictly comply with the subgrade certification form available in "Engineering Services Department: A Procedural Guide for the Preparation of Assurances of Completion and Maintenance."
- The engineer responsible for the project shall certify to County Engineering Services Director that the underdrains have been properly installed prior to the installation of any asphalt. Certification shall strictly comply with the underdrain certification form available in Engineering Services Department: A procedural Guide for the Preparation of Assurance of Completion and Maintenance.
- If during construction activities, any evidence of the presence of State or Federally protected plant and/or animal species is discovered, Pasco County and the applicable agencies shall be notified within two working days of the plant and/or animal species found on the site. All work in the affected area shall come to an immediate stop until all pertinent permits have been obtained, agency written authorization to commence activities has been given, or unless compliance with state and federal guidelines can be demonstrated.
- If during construction activities any evidence of historic resources, including but not limited to aboriginal or historic pottery, prehistoric stone tools, bone or shell tools, historic trash pits, or historic building foundations, are discovered, work shall come to an immediate stop and the Florida Department of Historic Resources (State Historic Preservation Officer) and Pasco County shall be notified within two working days of the resources found on the site.
- Prior to construction, a Building Permit shall be obtained for all structures that have a footer, regardless of size, through the Central Permitting Division; i.e., including, but not inclusive of, buildings, accessories, dumpster walls, and retaining walls.
- All first floor elevations (FF) shall be a minimum of one (1) foot above the base flood elevation (and meet the requirements of Pasco County LDC 1004) and be at least sixteen (16) inches above the highest crown line of the street lying between the projection of the side-building lines, unless otherwise approved by the County Administrator (per LDC 902).
- No construction activities including: clearing, grading, grubbing shall occur within the Wetland Upland Buffer as depicted on the approved project Construction Plans.
- The upland buffer line shall be clearly field demarcated prior to any construction activities.

SOIL REUSE REQUIREMENTS:

- At least the following six (6) types of materials are present on-site that require proper handling/treatment by the Contractor, during the course of site development/construction activities, in accordance with the noted reuse requirements for each type. Although some soil material quality control testing will be randomly and periodically performed by the project Geotechnical Consultant, as required, working for the Owner, it is the Contractor's sole responsibility to reuse onsite soil materials as described below. All discovered or future filling or material reuse work onsite not in accordance or compliance with these notes, or any future adverse impacts or consequences resulting from the Contractor's failure to properly reuse soil materials onsite as specifically described below, will be the Contractor's sole responsibility for remedy and repair at his cost. If the Contractor has any questions regarding any of the soil materials onsite, the project Geotechnical reports (which he needs to obtain from the Owner or Geotechnical Consultant/Engineer) or any questions associated with the notes below, it is presumed that the Contractor will satisfactorily resolve such questions/concerns prior to site demolition, clearing, grubbing, stripping and excavation operations begin. Please note, local, state and federal rules, laws, and regulations prohibiting soil reuse as described below shall take precedence and shall be followed to the fullest extent.
- Site Demolition Debris (Site demolition debris, not generally considered an environmental/contamination hazard, includes such items as wood pieces, concrete pieces, plastic pipe pieces, certain metal/steel pieces, or similar. If any such debris will be buried in a stormwater pond, or if burial onsite of such materials is prohibited by the governing environmental agency, then all such materials shall be hauled off site by the Contractor for proper disposal, in accordance with all applicable governing environmental agency requirements. In no case, shall any such debris materials remain, or be placed by the Contractor, beneath any type of structure, pavement, roadway, house, building, pipeline, slab, etc.) All Site Demolition Debris shall be removed from the site development and disposed of properly in accordance with all applicable governing environmental agency requirements.
 - Clearing and Grubbing Debris (Site clearing and grubbing debris includes all larger organic materials, such items as trees, stumps, limbs, brush, vegetation, or similar; all such materials must be either "burned" or "mulched" by the Contractor prior to reuse or disposal onsite. If acceptable to the governing environmental agency, then all such "burned" or "mulched" site clearing/grubbing debris, if approved in writing first by the Owner/Geotechnical Consultant/Engineer, could be:
 - placed as "mulch" material surface dressing in future landscape areas, stockpiling of such "mulched" materials (amounts/locations), if acceptable, will be directed by the Owner/Geotechnical Consultant/Landscape Architect/Engineer;
 - placed in temporarily excavated littoral shelf areas in selected stormwater ponds, or in temporarily excavated selected wetland mitigation ponds, in either case not in side banks and not below the permitted design depth of the pond, or such debris to be buried in temporarily excavated passive recreation/park areas (at least 30 feet from any structure) at approved depths/locations, but all these disposal areas will require adequate soil mixing (mix soil with the mulch) and then refilling (with compaction) to required design grades;
 - placed along the bottom of selected floodplain mitigation ponds (not in side banks), not below the permitted excavation depth of the pond, but will require adequate soil cover;
 - placed along the bottom of selected deeper stormwater ponds (not in side banks), not below the permitted design depth, but will require adequate soil cover.
 - In all instances, the minimum pond depth (including floodplain and wetland mitigation areas) shall be no less than required by the Engineer.
 - All organic debris burial areas in stormwater pond areas and floodplain mitigation pond areas will require adequate soil cover of 18" - 24 inches (with compaction) by the Contractor, meaning at least an adequate weight/thickness of soil material overtop the buried organic debris, such that there will be no future floating up of debris; and for all organic debris burial areas in littoral shelf areas, wetland mitigation pond areas, and passive recreation/park areas, adequate soil/mulch mixing (with compaction) will be necessary by the Contractor, such that no significant future unacceptable settlement of a littoral shelf area, created wetland area, or park/grassland area will occur. If any of these procedures are contemplated by the Contractor, then the Contractor shall notify the Owner/Geotechnical Consultant/Engineer in writing, at the start of construction, with some specific information, including the estimated quantity and types of materials, to which stormwater ponds, floodplain mitigation ponds, wetland mitigation ponds, or passive recreation/park areas they propose to use for this type of organic debris disposal, and what approximate elevations will be the top and bottom of the organic debris.

SURVEY DATA:
Boundary survey, topographic survey, tree survey, improvement location and associated survey work shown hereon and used for design purposes is based upon information provided by FLORIDA DESIGN CONSULTANTS, INC., Job Number 0533-0023. Clearview Land Design, P.L. has reviewed, but not verified the data provided. This data is the basis for design and Clearview Land Design, P.L. makes no certifications or representations as to the accuracy of the survey data.

GEOTECHNICAL REPORT:
THESE PLANS REFERENCE THE REPORT OF GEOTECHNICAL ENGINEERING EVALUATION (FES PROJECT NO. 19-4423), DATED SEPTEMBER 27, 2019 PREPARED BY FAULKNER ENGINEERING SERVICES, INC. AVAILABLE UPON REQUEST.

LEGAL DESCRIPTION:
SEE PRELIMINARY DEVELOPMENT PLAN

NOTE: CONTRACTOR SHALL INSPECT EROSION CONTROL DAILY (INCLUDING BUT NOT LIMITED TO TYPICAL OUTFALLS). CORRECTIVE ACTION SHALL BE TAKEN IMMEDIATELY TO REPAIR OR REPLACE AS NEEDED.

ESTIMATED EARTHWORK QUANTITIES (UNADJUSTED)*:
VOLUME: 15 MASS GRADED
SITE IS UNDER PREVIOUS APPROVAL
AS AN ESTIMATE PER PASCO COUNTY REQUIREMENTS - NOT INTENDED AS A BID QUANTITY

- Muck/Peat Organic Materials (Typically generated from wetland or lowland areas, or similar areas, permitted for impact or displacement, including excavation of unstable organic materials and refilling with suitable sandy soils to accommodate development; includes significant organic peat materials, organic sandy muck materials, and mucky or organic sand materials, designated either Pt or A-8; per the Unified and AASHTO Soil Classification Systems, respectively; those organic materials whose presence, or placement by the Contractor, is unacceptable beneath any type of structure, pavement, roadway, house, building, pipeline, slab, etc.) If acceptable to the governing environmental agency, then all such muck/peat (significant) organic materials, if approved in writing first by the Owner/Geotechnical Consultant/Engineer, could be:
 - placed as "peat/muck/organic matter" surface layer in new or created wetland mitigation areas, stockpiling of such "significant organic" materials (amounts/locations), if acceptable, will be directed by the Owner/Wetland Consultant;
 - placed in temporarily excavated littoral shelf areas in selected stormwater ponds, or in temporarily excavated selected wetland mitigation ponds, in either case not in side banks and not below the permitted design depth of the pond, or such organic materials could be buried in temporarily excavated passive recreation/park areas (at least 30 feet from any structure) at approved depths/locations, but all these disposal areas will require adequate soil mixing (mix soil with the organic materials) and then refilling (with compaction) to required design grades; stormwater ponds, or in temporarily excavated selected wetland mitigation ponds (not in side banks), not below the permitted excavation depth of the pond, but will require adequate soil cover;
 - All organic debris burial areas in stormwater pond areas and floodplain mitigation pond areas will require adequate soil cover (with compaction) by the Contractor, meaning at least an adequate weight/thickness of soil material overtop the buried organic debris, such that there will be no future floating up of debris; and for all organic debris burial areas in littoral shelf areas, wetland mitigation pond areas, and passive recreation/park areas, adequate soil/organic mixing (with compaction) will be necessary by the Contractor, such that no significant future unacceptable settlement of a littoral shelf area, created wetland area, or park/grassland area will occur.
 - If any of these procedures are contemplated by the Contractor, then the Contractor shall notify the Owner/Geotechnical Consultant/Engineer in writing, at the start of construction, with some specific information, including the estimated quantity and types of materials, to which stormwater ponds, floodplain mitigation ponds, wetland mitigation ponds, or passive recreation/park/landscape berm areas they propose to use for this type of organic material disposal, and what approximate elevations will be the top and bottom of the organic materials.
- Topsoils/Soil Strippings (Typically generated from upland areas, after demolition/clearing/grubbing/discing operations; stripping of surficial organic/topsoils being a requirement over at least all structure, building, concrete slab and pavement areas prior to filling to accommodate development; includes topsoils and organic laden sands; those topsoils/organic sand materials whose presence, or placement by the Contractor, is unacceptable beneath any type of structure, pavement, roadway, house, building, pipeline, slab, etc.)
 - If acceptable to the governing environmental agency, all such topsoils/organic laden sand materials, if approved in writing first by the Owner/Geotechnical Consultant/Engineer, could be:
 - placed as fill in new (larger) landscape/grass common areas or landscape berm areas (with compaction), stockpiling of such "topsoils/organic laden sand materials" (amounts/locations), if acceptable, will be directed by the Owner/Landscape Consultant;
 - placed in temporarily excavated littoral shelf areas in selected stormwater ponds, or in temporarily excavated selected wetland mitigation ponds, in either case not in side banks and not below the permitted design depth of the pond, or such topsoils/organic laden sand materials could be buried in temporarily excavated passive recreation/park areas (at least 30 feet from any structure) at approved depths/locations, but all these disposal areas will require adequate soil mixing (with compaction) to required design grades;
 - placed along the bottom of selected floodplain mitigation ponds (not in side banks), not below the permitted excavation depth of the pond;
 - placed along the bottom of selected deeper stormwater ponds (not in side banks), not below the permitted design depth.
 - All topsoil/organic laden sand disposal areas in littoral shelf areas, wetland mitigation pond areas, passive recreation/park areas, or landscape/berm areas will require adequate compaction by the Contractor, such that no significant future unacceptable settlement of a littoral shelf area, created wetland area, park/grassland area, or landscape berm will occur.
- If any of these procedures are contemplated by the Contractor, then the Contractor shall notify the Owner/Geotechnical Consultant/Engineer in writing, at the start of construction, with some specific information, including the estimated quantity and types of materials, to which stormwater ponds, floodplain mitigation ponds, wetland mitigation ponds, passive recreation/park areas, or landscape berm areas they propose to use for this type of clayey sand/clay disposal, and what approximate elevations will be the top and bottom of the clayey materials.
- Structural Sand Fill Materials (Typically generated from pond/lake excavations, cut from higher elevation areas, or from utility pipeline/manhole excavations; such sand materials, with typically 25% fines or less passing the No. 200 sieve, designated either SP, SP-SM, SM or A-2.4, A-2.6 or A-3, per the Unified and AASHTO Soil Classification Systems, respectively; such sand materials being suitable or acceptable for reuse by the Contractor as building pad fill, structural fill, roadway embankment fill, and pipeline or manhole excavation backfill.)
 - All such sand materials shall be reused onsite by the Contractor, per the Geotechnical reports, as building pad fill, structural fill, roadway embankment fill, and pipeline or manhole excavation backfill; placed by the Contractor in loose lifts not exceeding 12-inches, compacted to at least 95% or 98% modified Proctor (per ASTM D-1557 or AASHTO T-180), whichever is applicable depending upon the future use of the filled area (see Geotechnical reports); with density testing of each lift fill for acceptance by the Geotechnical Consultant, upon Contractor request, prior to the next fill lift being placed.

Clearview LAND DESIGN, P.L.
Engineering Business C.A. No.: 28858
3010 W Azeele St., Suite 150, Tampa, Florida 33609
Office: 813-223-3919 Fax: 813-223-3975

GENERAL NOTES

MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS

DESIGN: MELVIN
DRAWN: DROOR
DATE: 10-07-2019
FILE: GN

PREPARED FOR: LENNAR HOMES

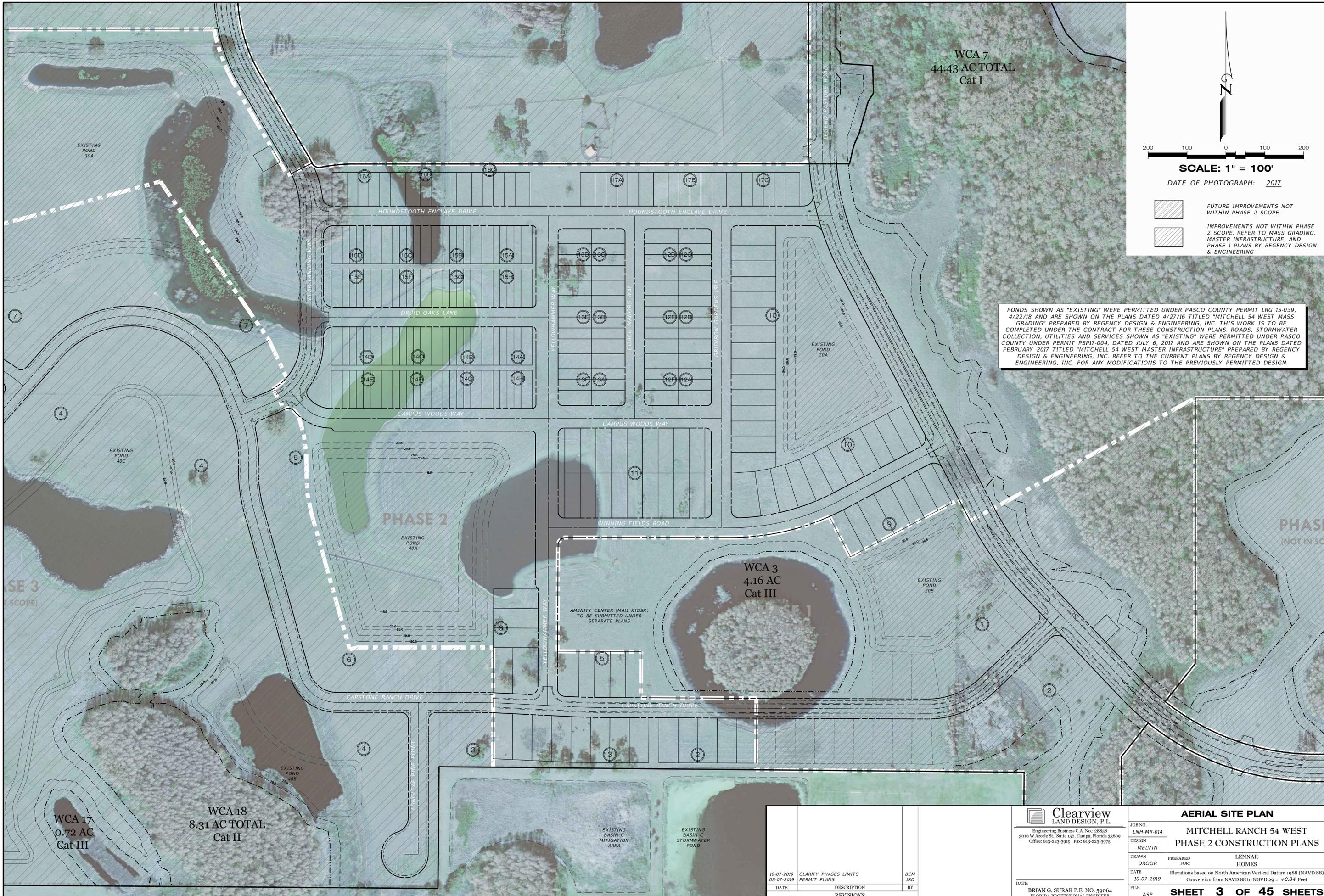
Elevations based on North American Vertical Datum 1988 (NAVD 88)
Conversion from NAVD 88 to NGVD 29 = +0.84 Feet

SHEET 2 OF 45 SHEETS

10-07-2019	UPDATE GEOTECH. REPORT INFO.	BJM
08-07-2019	PERMIT PLANS	JRD
DATE	DESCRIPTION	BY
	REVISIONS	

BRIAN G. SURAK P.E. NO. 50064
FLORIDA PROFESSIONAL ENGINEER

P:\MITCHELL RANCH\MITCHELL RANCH 54 WEST PHASE 2\DRAWINGS\CONDOCS\GEN-DWG-2 GENERAL NOTES-2019/10/07 10:34 AM BRENT MELVIN



WCA 7
44.43 AC TOTAL
Cat I

SCALE: 1" = 100'

DATE OF PHOTOGRAPH: 2017

 FUTURE IMPROVEMENTS NOT WITHIN PHASE 2 SCOPE
 IMPROVEMENTS NOT WITHIN PHASE 2 SCOPE. REFER TO MASS GRADING, MASTER INFRASTRUCTURE, AND PHASE 1 PLANS BY REGENCY DESIGN & ENGINEERING

PONDS SHOWN AS "EXISTING" WERE PERMITTED UNDER PASCO COUNTY PERMIT LRG 15-039, 4/22/18 AND ARE SHOWN ON THE PLANS DATED 4/27/16 TITLED "MITCHELL 54 WEST MASS GRADING" PREPARED BY REGENCY DESIGN & ENGINEERING, INC. THIS WORK IS TO BE COMPLETED UNDER THE CONTRACT FOR THESE CONSTRUCTION PLANS. ROADS, STORMWATER COLLECTION, UTILITIES AND SERVICES SHOWN AS "EXISTING" WERE PERMITTED UNDER PASCO COUNTY UNDER PERMIT PSP17-004, DATED JULY 6, 2017 AND ARE SHOWN ON THE PLANS DATED FEBRUARY 2017 TITLED "MITCHELL 54 WEST MASTER INFRASTRUCTURE" PREPARED BY REGENCY DESIGN & ENGINEERING, INC. REFER TO THE CURRENT PLANS BY REGENCY DESIGN & ENGINEERING, INC. FOR ANY MODIFICATIONS TO THE PREVIOUSLY PERMITTED DESIGN.

P:\MITCHELL RANCH\MITCHELL RANCH 54 WEST PHASE 2\DRAWINGS\CONDOCS\ASP.DWG-AERIAL SITE PLAN 2019/10/07 10:34 AM BRETT MELVIN

WCA 17
0.72 AC
Cat III

WCA 18
8.31 AC TOTAL
Cat II

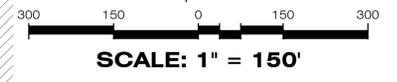
WCA 3
4.16 AC
Cat III

 Engineering Business C.A. No.: 28858 3010 W Azele St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975		AERIAL SITE PLAN MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS	
JOB NO. LNH-MR-014	DESIGN MELVIN	PREPARED FOR LENNAR HOMES	DATE 10-07-2019
DRAWN DROOR	DESCRIPTION CLARIFY PHASES LIMITS PERMIT PLANS	DATE 10-07-2019	FILE ASP
DATE 10-07-2019	DESCRIPTION REVISIONS	BY BEM	DATE 10-07-2019
BRIAN G. SURAK P.E. NO. 59064 FLORIDA PROFESSIONAL ENGINEER		SHEET 3 OF 45 SHEETS	

EXISTING BASIN C
MITIGATION AREA

EXISTING BASIN C
STORMWATER POND

AMENITY CENTER (MAIL KIOSK)
TO BE SUBMITTED UNDER
SEPARATE PLANS

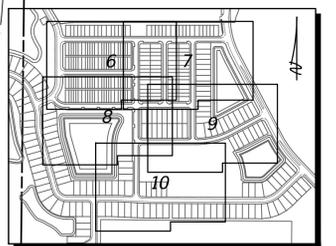


NEIGHBORHOOD PARK SUMMARY

- PARK AREA REQ'D: 2.85 AC.
 - PHASE 1 LOTS: 25
 - PHASE 2 LOTS: 260
 TOTAL LOTS: 285 X 0.01 AC/UNIT = 2.85 AC.
 PARK AREA PROVIDED: 10.18 AC.
 - NH PARK NO. #1: 2.64 (TRACTS C-1/B-3, PHASE 1)
 - NH PARK NO. #2: 0.87 AC. (TRACT P-1)
 - NH PARK NO. #3: 1.04 AC. (TRACT B-2)
 - NH PARK NO. #4: 1.34 AC. (TRACT B-3)
 - NH PARK NO. #6: 4.29 AC. (TRACT B-6)
 TOTAL NH PARK AREA PROVIDED: 10.18 AC.

LEGEND

- R/W LINE
- UTILITY EASEMENT
- WETLAND LINE
- 25' OFFSET FROM WETLAND LINE
- WCA 108 (Ac.) Cat III
- WETLAND CONSERVATION AREA PASCO WETLAND CATEGORY
- WETLAND AREAS
- PREVIOUSLY COMPLETED WETLAND IMPACTS
- PROJECT PHASE LINE
- 5' WIDE x 4' THK. CONCRETE SIDEWALK TO BE INSTALLED BY SITE DEVELOPER
- 5' DRAINAGE & ACCESS EASEMENT REQUIRED WHERE SHOWN.
- AREAS NOT WITHIN PHASE 2 SCOPE.



INDEX TO MAP COVERAGE

DATE	DESCRIPTION	BY
10-07-2019	ADDED SHEET	BEM
	REVISIONS	

Clearview
 LAND DESIGN, P.L.
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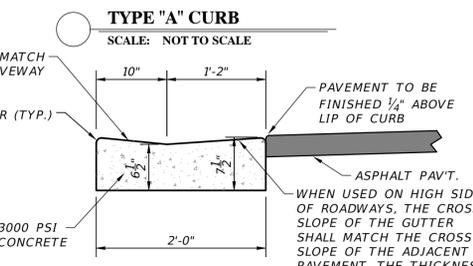
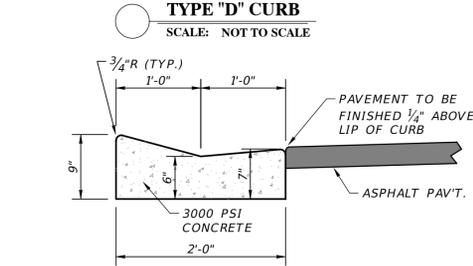
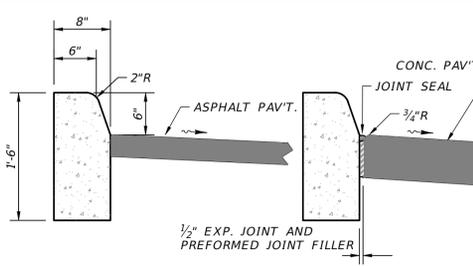
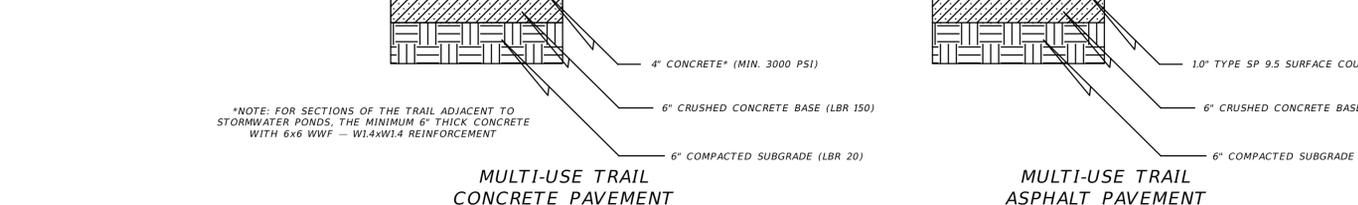
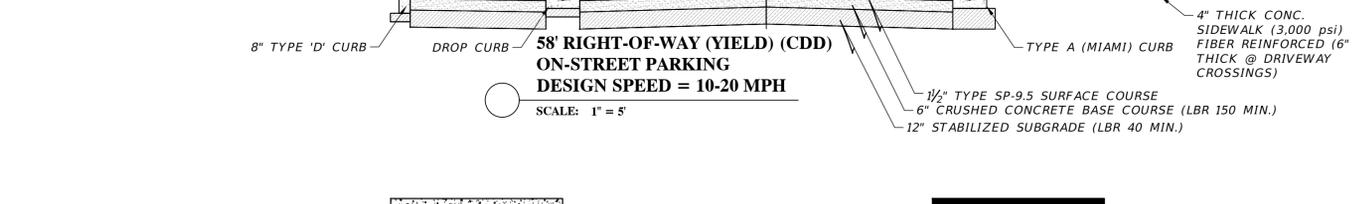
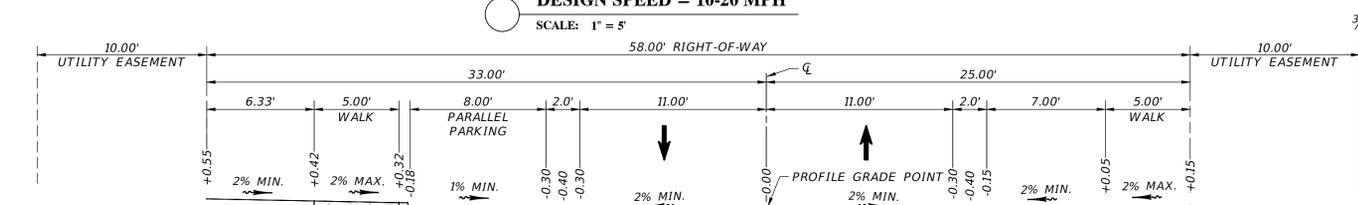
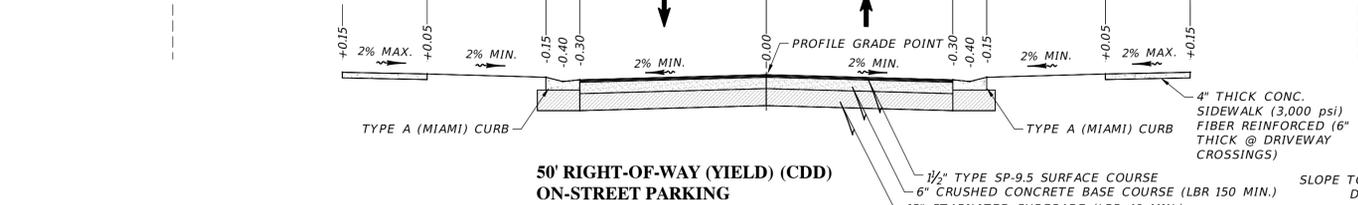
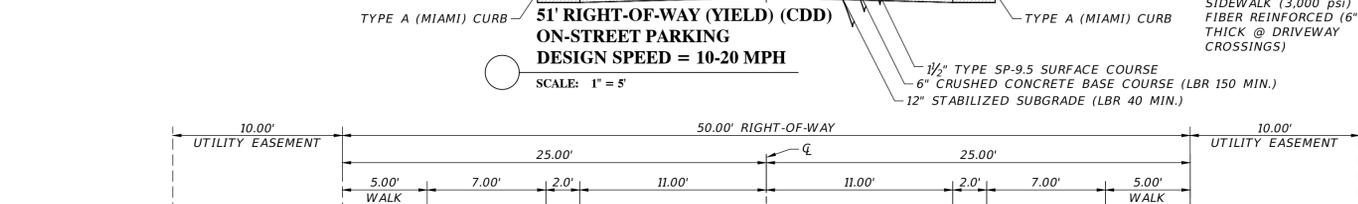
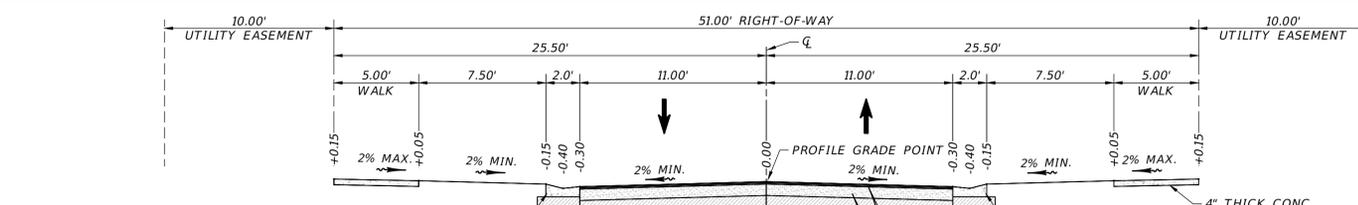
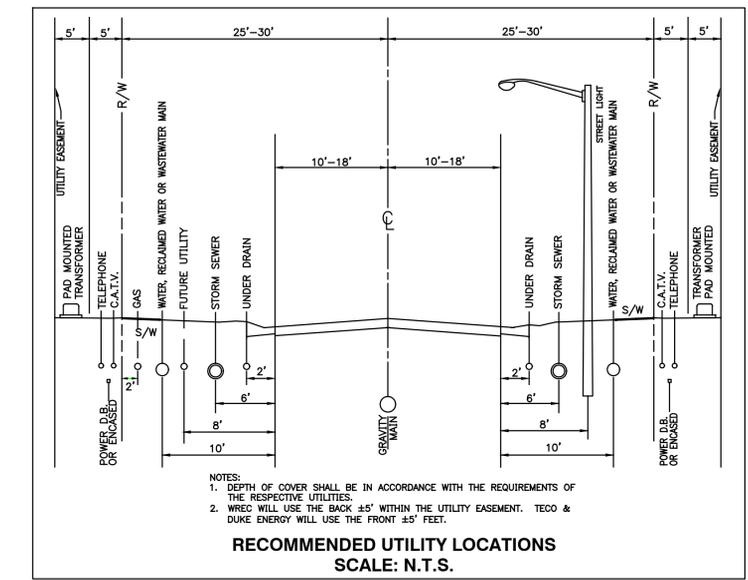
JOB NO.		LNH-MR-014	
DESIGN		MELVIN	
DRAWN		DROOR	
DATE		10-07-2019	
FILE		SITEMAP	
PREPARED FOR:		LENNAR HOMES	
Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet			
SHEET 3A OF 45 SHEETS			

P:\MITCHELL RANCH\MITCHELL RANCH 54 WEST PHASE 2\DRAWINGS\CONDOS\STEMAP.DWG-3A SITE MAP 2019/10/07 10:35 AM BRETT MELVIN

PAVEMENT CONSTRUCTION NOTES (CRUSHED CONCRETE)

- PAVEMENT WEARING SURFACE SHALL BE ASPHALTIC CONCRETE OF TYPE AND THICKNESS SHOWN IN DETAIL AND SHALL MEET CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) SPECIFICATIONS.
 - PAVEMENT BASE SHALL BE CRUSHED CONCRETE, AS DESIGNATED IN PLANS, AND SHALL BE COMPACTED TO A MINIMUM THICKNESS AS SHOWN.
 - CRUSHED CONCRETE ROAD BASE MATERIAL SHALL MEET THE FOLLOWING CONDITIONS:
 THE WORK SPECIFIED UNDER THIS SECTION CONSISTS OF THE CONSTRUCTION OF ROADWAY BASE UTILIZING CRUSHED CONCRETE (RECLAIMED CONCRETE AGGREGATE BASE MATERIAL) ON A PREPARED STABILIZED SUBGRADE OF LBR 40 WITH A DENSITY OF 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY AS DETERMINED BY FM-1180, METHOD D, IN CONFORMITY WITH THE LINES, GRADES NOTES AND TYPICAL CROSS SECTIONS SHOWN IN THE PLANS, AND AS DIRECTED BY THE COUNTY ENGINEER.
 THE CONSTRUCTION OF CRUSHED CONCRETE BASE SHALL CONFORM TO THE REQUIREMENTS OF THIS SECTION, OR, IN LIEU THEREOF, SUCH REQUIREMENTS AS MAY BE ESTABLISHED BY THE COUNTY ENGINEER DURING CONSTRUCTION. THE COUNTY ENGINEER SHALL HAVE FULL AUTHORITY TO MODIFY THE PROVISIONS OF THIS SECTION AS DEEMED NECESSARY, IN HIS OPINION, TO MEET FIELD CONDITIONS AND REQUIREMENTS.
- MATERIALS**
 - CRUSHED CONCRETE MUST BE PRODUCED FROM A SOURCE APPROVED BY FLORIDA DEPARTMENT OF TRANSPORTATION OR THE COUNTY ENGINEER. THE SUPPLIER SHALL HAVE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) PERMIT REQUIREMENTS SECTION 62-701.730 OR BE QUALIFIED AS A CLEAN DEBRIS SOURCE UNDER DEP RULES. THE RECLAIMED CONCRETE AGGREGATE BASE SHALL CONSIST OF CRUSHED CONCRETE MATERIAL DERIVED FROM THE CRUSHING OF HARD PORTLAND CEMENT CONCRETE.
 - COMPOSITION**
 - BASE MATERIAL SHALL CONFORM TO THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE SIZE	% BY WEIGHT PASSING
2 INCH	100
3/4 INCH	65 TO 95
3/8 INCH	40 TO 85
NO. 4	25 TO 65
NO. 10	20 TO 50
NO. 50	5 TO 25
NO. 200	0 TO 10
 - CRUSHED CONCRETE BASE SHALL NOT CONTAIN PLASTIC SOILS SUCH THAT THE NO. 40 SIEVE MATERIAL SHALL BE NON-PLASTIC.
 - LIQUID LIMIT (AS DETERMINED BY AASHTO T80) (LESS THAN 25) PER MATERIAL TYPE.
 - THE FINISHED IN-PLACE CRUSHED CONCRETE BASE LIMEROCK BEARING RATIO SHALL HAVE A MINIMUM (LBR) OF 150.
 - CRUSHED CONCRETE BASE SHALL BE FREE OF ALL MATERIALS THAT FALL UNDER THE CATEGORY OF SOLID WASTE OR HAZARDOUS MATERIALS AS DEFINED BY THE STATE OR LOCAL JURISDICTION AND SHALL MEET ALL DEP PERMIT REQUIREMENTS WHICH PERTAIN TO CONSTRUCTION, DEMOLITION AND RECYCLING OF THESE MATERIALS. CRUSHED CONCRETE BASE SHALL BE ASBESTOS FREE. THE FOLLOWING LIMITS SHALL NOT BE EXCEEDED:
 BITUMINOUS CONCRETE 10% BY WEIGHT
 BRICKS 10% BY WEIGHT
 WOOD & OTHER ORGANIC SUBSTANCES 0.5% BY WEIGHT
 HEAVY METALS (EXCEPT LEAD) 0.1% BY WEIGHT
 LEAD 5 PARTS PER MILLION
 REINFORCED STEEL AND WELDED FABRIC 0.1% BY WEIGHT
 PLASTER AND GYPSUM BOARD 0.1% BY WEIGHT
 - THE MATERIAL FOR CRUSHED CONCRETE BASE SHALL CONSIST ONLY OF CRUSHED CONCRETE PAVEMENT AND SUCH ADJUTIVE MATERIAL AS MAY BE APPROVED BY THE COUNTY ENGINEER FOR THE PURPOSE OF FACILITATING CONSTRUCTION AND ACHIEVING THE DESIRED CHARACTERISTICS OF THE FINISHED IN-PLACE PRODUCT. APPROVAL FROM THE COUNTY ENGINEER IS REQUIRED BEFORE PLACING MATERIAL FROM MORE THAN ONE SOURCE. ONCE APPROVED, A CHANGE IN THE SOURCE OF BASE MATERIAL SHALL REQUIRE ADDITIONAL ACCEPTANCE TESTING. THE MATERIAL SHALL NOT CONTAIN LUMPS, BALLS OR POCKETS OF SAND OR CLAY MATERIAL IN SIZE OR QUANTITY SUFFICIENT TO BE DETRIMENTAL TO THE PROPER BONDING, FINISHING, STRENGTH OF THE CONCRETE BASE. EXISTING BASE IS TO BE REMOVED TO CONSTRUCT THE NEW BASE.
 - EQUIPMENT, PLACEMENT AND SPREADING OF MATERIAL**
 - USE MECHANICAL ROCK SPREADERS, EQUIPPED WITH A DEVICE THAT STRIKES OFF THE ROCK UNIFORMLY TO LAYING THICKNESS AND CAPABLE OF PRODUCING EVEN DISTRIBUTION. FOR ROADWAY WIDTHS OF 20 FEET OR LESS, CROSSOVERS, INTERSECTIONS, RAMP AREAS OR WHERE THE USE OF A MECHANICAL SPREADER IS NOT PRACTICABLE, THE CONTRACTOR MAY SPREAD THE CRUSHED CONCRETE BASE USING BULLDOZERS OR BLADE GRADERS.
 - TRANSPORT CRUSHED CONCRETE TO THE POINT OF USE, OVER THE BASE PREVIOUSLY PLACED, AND DUMP IT ON THE END OF THE PRECEDING SPREAD. HAULING ON SUBGRADE TO DUMP CRUSHED CONCRETE BASE WILL BE PERMITTED ONLY WHEN, IN THE ENGINEER'S OPINION, THESE OPERATIONS WILL NOT BE DETRIMENTAL TO THE BASE AND SUBGRADE.
 - CRUSHED CONCRETE SHALL BE SPREAD UNIFORMLY WITHOUT SEGREGATION OF FINE OR COARSE MATERIALS. SEGREGATED AREAS SHALL BE REPLACED WITH PROPERLY GRADED CRUSHED CONCRETE AFTER REMOVAL.
 - THE MINIMUM THICKNESS OF THE CRUSHED CONCRETE BASE SHALL BE INDICATED ON THE PLANS. WHEN THE SPECIFIED COMPACTED THICKNESS OF THE CRUSHED CONCRETE BASE IS GREATER THAN SIX INCHES, CONSTRUCT THE BASE IN MULTIPLE COURSES OF EQUAL THICKNESS. INDIVIDUAL COURSES SHALL NOT BE LESS THAN THREE INCHES. SINGLE CRUSHED CONCRETE MATERIAL TO ENSURE THE TOTAL THICKNESS SINGLE SOURCE INTEGRITY AT ANY STATION LOCATION OF THE BASE.
 - COMPACTING, FINISHING AND TESTING REQUIREMENTS**
 - AFTER SPREADING IS COMPLETED THE CRUSHED CONCRETE SHALL BE UNIFORMLY COMPACTED, WITH WATER BEING ADDED AS REQUIRED TO A DENSITY OF NOT LESS THAN ONE HUNDRED PERCENT (100%) OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180, DURING FINAL COMPACTATION OPERATIONS, IF THE BLADING OF ANY AREAS IS NECESSARY TO OBTAIN THE TRUE GRADE AND CROSS SECTION, FREE OF SCABS AND LAMINATIONS, THE COMPACTING OPERATIONS FOR SUCH AREAS SHALL BE COMPLETED PRIOR TO THE PERFORMANCE OF DENSITY TESTS ON THE FINISHED BASE.
 - MULTIPLE COURSE BASE: CLEAN THE FIRST COURSE OF FOREIGN MATERIAL, THEN BLADE AND BRING IT TO A SURFACE CROSS-SECTION APPROXIMATELY PARALLEL TO THE FINISHED BASE. BEFORE SPREADING ANY MATERIAL FOR THE UPPER COURSES, OBTAIN DENSITY TESTS FOR THE LOWER COURSES TO DETERMINE THAT THE REQUIRED COMPACTION (NOT LESS THAN ONE HUNDRED PERCENT (100%) OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 HAS BEEN OBTAINED. AFTER SPREADING THE CRUSHED CONCRETE FOR THE TOP COURSE, FINISH AND SHAPE ITS SURFACE TO PRODUCE THE REQUIRED GRADE AND CROSS-SECTION, FREE OF SCABS AND LAMINATIONS, AFTER COMPACTION.
 - THE MINIMUM DENSITY THAT WILL BE ACCEPTED AT ANY LOCATION OUTSIDE THE TRAVELED ROADWAY (SUCH AS INTERSECTIONS, CROSSOVERS, TURNOUTS, ETC.) SHALL BE 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
 - TESTING OF BASE COURSE**
 - THE MINIMUM FREQUENCY OF SAMPLING AND TESTING OF CRUSHED CONCRETE MATERIAL, LAB DENSITY, FIELD DENSITY AND THICKNESS SHALL ADHERE TO THE FREQUENCY OF TESTING FOR LIMEROCK BASE IN THE MOST CURRENT EDITION OF "PASCO COUNTY ENGINEERING SERVICES DEPARTMENT TESTING SPECIFICATIONS FOR CONSTRUCTION OF ROADS, STORM DRAINAGE AND UTILITIES". ONE PLANT MIX DESIGN, ONE PLANT GRADATION TEST FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES (AASHTO T-27) (FM-702) INCLUDING A PLASTICITY INDEX (FM-700) (AASHTO T-90) FROM THE APPROVED SOURCE SHALL BE SUBMITTED AT ONE PER DAY OR CHANGE OF MATERIAL. ONE ROADWAY FIELD TEST FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES (ASTM C136) SHALL BE SUBMITTED PER 500 FEET OF ROAD PER DAY PER MIX DESIGN; MINIMUM ONE PER ROAD.
 - THE SUBGRADE SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO PLACEMENT OF ANY BASE MATERIAL.
 - THE BASE COURSE SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO PLACEMENT OF ANY ASPHALT MATERIAL.
 - CRUSHED CONCRETE SURFACE SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO ANY PAVING OPERATION.
 - ALL CURBS AND GUTTERS SHALL BE PLACED ON A FOUNDATION OF TYPE "B" STABILIZED SUBGRADE WITH A MINIMUM LBR OF 40 AND WHICH HAS BEEN COMPACTED TO A MINIMUM DENSITY OF NINETY-EIGHT (98) PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T 180 FOR A MINIMUM DEPTH OF TWELVE (12) INCHES.
 - ROADWAY UNDERDRAIN HAS BEEN LOCATED ON THESE PLANS TO MEET THE MINIMUM STANDARDS OF PASCO COUNTY PRIOR TO CURB CONSTRUCTION. THE GEOTECHNICAL ENGINEER SHALL REVIEW THE PREDESIGN BORINGS AND, ALONG WITH THEIR FIELD INSPECTOR, MAKE A RECOMMENDATION REGARDING ADDITIONAL UNDERDRAIN REQUIREMENTS.
 - SHOULD NO UNDERDRAIN BE SPECIFIED ON THE PLANS THE CONTRACTOR IS TO INCLUDE 1,000 LINEAR FEET OF UNDERDRAIN AT UNIT PRICES FOR BID PURPOSES.
 - ALL PORTLAND CEMENT CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 P.S.I. UNLESS OTHERWISE SPECIFIED.



Proposed Pavement Structure (All LOCAL ROADS - Type 2, 3 & 4) (YIELD):

Layer Coefficients	Thickness
0.44 - Type SP-9.5 Asphalt Surface	1 1/2"
0.15 - Crushed Concrete Base (LBR 150 min.)	6"
0.08 - Stabilized Subgrade (LBR 40 min.)	12"

SN = (0.44) (1.50) + (0.15) (6) + (0.08) (12) = 2.52

Use: 6" Crushed Concrete Base with 1 1/2" Type SP-9.5 Asphalt Surface and 12" Stabilized Subgrade (LBR 40 Min)

Alternate Pavement Structure (All LOCAL ROADS - Type 2, 3 & 4) (YIELD):

Layer Coefficients	Thickness
0.44 - Type SP-9.5 Asphalt Surface Course	1 1/2"
0.15 - Soil Cement Base Course (300 p.s.i. min.)	8"
0.04 - Compacted Subgrade (LBR 20)	12"

SN = (0.44) (1.50) + (0.15) (8) + (0.04) (12) = 2.34

Use: 8" Soil Cement Base with 1 1/2" Type SP-9.5 Asphalt Surface Course and 12" Stabilized Subgrade (LBR 20)

Proposed Pavement Structure for TYPE 1 STREET

Layer Coefficients	Thickness
0.44 - Type FC-9.5 Friction Course	1"
0.44 - Type SP-12.5 Surface Course	2"
0.15 - Crushed Concrete Base (LBR 150 min.)	10"
0.08 - Stabilized Subgrade (LBR 40 min.)	12"

SN = (0.44) (1) + (0.44) (2) + (0.15) (10) + (0.08) (12) = 3.78

Alternate Pavement Structure for TYPE 1 STREET

Layer Coefficients	Thickness
0.44 - Type FC-9.5 Friction Course	1"
0.44 - Type SP-12.5 Surface Course	2"
0.15 - Soil Cement Base (300 p.s.i. min.)	12"
0.04 - Compacted Subgrade (LBR 20)	12"

SN = (0.44) (1) + (0.44) (2.5) + (0.15) (12) + (0.04) (12) = 3.82

- ALTERNATE PAVEMENT CONSTRUCTION NOTES (SOIL CEMENT)**
- SUBGRADE UNDER A SOIL-CEMENT BASE SHALL BE PROOF-ROLLED TO GRADE, AS DIRECTED BY THE ENGINEER AND APPROVED BY THE ENGINEER WITH SUITABLE COMPACTION EQUIPMENT TO ACHIEVE A DENSITY OF NINETY-EIGHT (98%) PERCENT MODIFIED PROCTOR FOR A DEPTH OF TWELVE (12) INCHES PRIOR TO PLACING SOIL-CEMENT BASE.
 - SOIL-CEMENT MIX DESIGN SHALL BE PROVIDED A MINIMUM 30 DAYS IN ADVANCE OF PLACEMENT OF BASE MATERIAL FOR APPROVAL BY THE ENGINEER. THE SOIL-CEMENT PRODUCT SHALL BE IN ACCORDANCE WITH PCA STANDARDS, 300 P.S.I. MINIMUM.
 - SOIL-CEMENT SURFACE SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO ANY PAVING OPERATION.

PASCO COUNTY PAVEMENT DESIGN CRITERIA (SOIL CEMENT)

MINIMUM SN*	ROADWAY CLASSIFICATION
2.34	LOCAL
3.50	TYPE 1
3.50	SUBDIVISION COLLECTOR

* PASCO COUNTY LDC SECTION 901

ALL CLEAR ZONES SHALL BE FREE OF ANY OBSTRUCTIONS. SEE CLEAR ZONE WIDTHS PER PASCO COUNTY LDC 901.6(D)(6) IN THE FOLLOWING TABLE:

STREET TYPE	FDOT TYPE F & D CURB	FDOT TYPE A, E, & MIAMI CURB
2	4'	6'
3	4'	6'
4	1 1/2"	6'

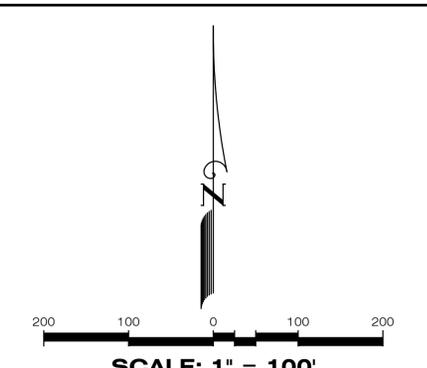
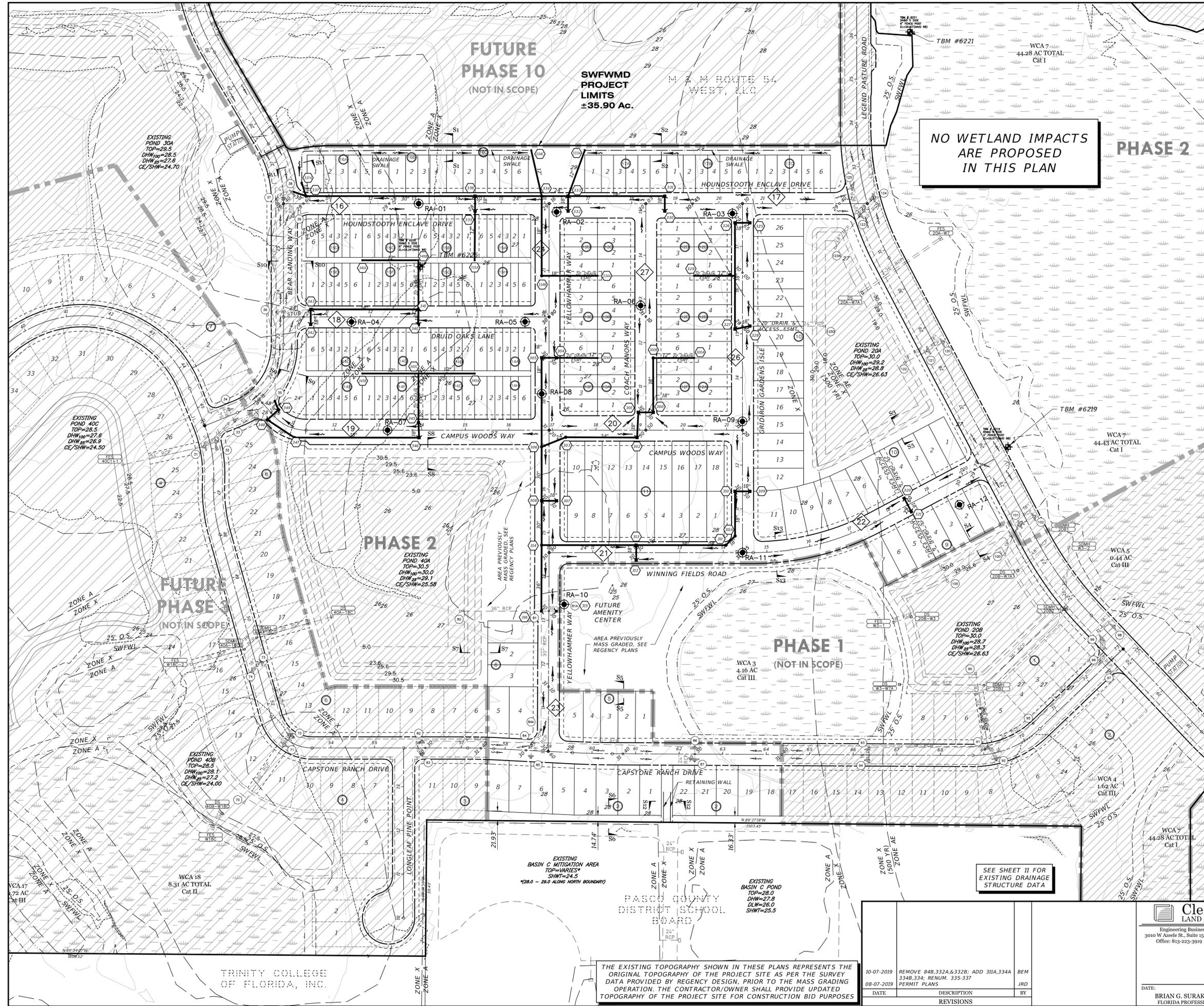
- FOR PRIVATE STREETS, ENTRANCE AND EXIT GATE EQUIPMENT, GUARDHOUSE, OR OTHER LIKE STRUCTURE MAY BE SET BACK 1/2 FEET FROM THE FDOT TYPE F AND D CURB.
- WIDTHS IN ABOVE CHART ARE MEASURED FROM FACE OF BARRIER CURB OR EDGE OF PAVEMENT IF NO BARRIER CURB PROVIDED.

CONTRACTOR MAY PROPOSE ALTERNATE PAVEMENT DESIGNS. CONTRACTOR SHALL SUBMIT ANY PAVEMENT ALTERNATIVES TO ENGINEER FOR APPROVAL PRIOR TO FINAL SUBGRADE PREPARATIONS.

- GRASSING NOTES:**
- 16" STRIP OF SOD REQUIRED ON ALL BACK OF CURBS
 - REMAINING GRASS AREAS WITHIN R/W MAY BE SEEDED AND MULCHED ON SLOPES FLATTER THAN 4:1

<p>Clearview LAND DESIGN, P.L. Engineering Business C.A. No.: 28858 3010 W Azeale St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975</p>		<p>TYPICAL ROADWAY SECTIONS</p> <p>JOB NO. LNH-MR-014 DESIGN MELVIN DRAWN DROR DATE 10-07-2019 FILE RS</p> <p>MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS</p> <p>PREPARED FOR: LENNAR HOMES Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet</p> <p>SHEET 4 OF 45 SHEETS</p>	
<p>10-07-2019 ADD DROP CURB DETAIL, SIDEWALK NOTE 08-07-2019 ADD MULTI-USE TRAIL PAVEMENT OPTIONS PERMIT PLANS</p>	<p>JRD JRD</p>	<p>DATE DESCRIPTION BY</p>	<p>REVISIONS</p>

*NOTE: FOR SECTIONS OF THE TRAIL ADJACENT TO STORMWATER PONDS, THE MINIMUM 6" THICK CONCRETE WITH 6x6 WWF - W1.4xW1.4 REINFORCEMENT



LEGEND

EXISTING	PROPOSED	DESCRIPTION
		STORM DRAINAGE STRUCTURE & PIPE PIPE SIZE IN INCHES
		STRUCTURE NO.
		SPOT ELEVATION
		PROPOSED PROFILE GRADE ELEVATION
		CONTOUR
		DIRECTION OF SURFACE FLOW
		STAKED EROSION CONTROL
		FEMA FLOOD ZONE BOUNDARY
		BASE FLOOD ELEVATION (FT)
		WETLAND LINE
		25' OFFSET FROM WETLAND LINE
		WCA 108 (Ac.) Cat III
		WCA 7 44.28 AC TOTAL Cat I
		WCA 5 0.44 AC Cat III
		WCA 4 1.62 AC Cat III
		WCA 3 4.16 AC Cat III
		PROJECT BOUNDARY
		PLAN & PROFILE SHEET NO. REFERENCE
		ROADWAY AUGER LOCATION
		5' WIDE X 4' THK. CONCRETE SIDEWALK TO BE INSTALLED BY SITE DEVELOPER
		FUTURE IMPROVEMENTS NOT WITHIN PHASE 2 SCOPE
		IMPROVEMENTS NOT WITHIN PHASE 2 SCOPE. REFER TO MASS GRADING, MASTER INFRASTRUCTURE, AND PHASE 1 PLANS BY REGENCY DESIGN & ENGINEERING

WETLAND IMPACTS PREVIOUSLY PERMITTED UNDER PASCO COUNTY PERMIT LRG 15-039, 4/22/18 AND SWFWMD PERMIT NO. 43013055.007 AND ARE SHOWN ON THE PLANS DATED 4/27/16 TITLED "MITCHELL RANCH 54 WEST MASS GRADING" PREPARED BY REGENCY DESIGN & ENGINEERING, INC.

PONDS SHOWN AS "EXISTING" WERE PERMITTED UNDER PASCO COUNTY PERMIT LRG 15-039, 4/22/18 AND ARE SHOWN ON THE PLANS DATED 4/27/16 TITLED "MITCHELL RANCH 54 WEST MASS GRADING" PREPARED BY REGENCY DESIGN & ENGINEERING, INC. THIS WORK IS TO BE COMPLETED UNDER THE CONTRACT FOR THESE CONSTRUCTION PLANS. ROADS, STORMWATER COLLECTION, UTILITIES AND SERVICES SHOWN HERE AS "EXISTING" WERE PERMITTED UNDER PASCO COUNTY UNDER PERMIT PSP17-004, DATED JULY 6, 2017 AND ARE SHOWN ON THE PLANS DATED FEBRUARY 2017 TITLED "MITCHELL RANCH 54 WEST MASTER INFRASTRUCTURE" PREPARED BY REGENCY DESIGN & ENGINEERING, INC. REFER TO THE CURRENT PLANS BY REGENCY DESIGN & ENGINEERING, INC. FOR ANY MODIFICATIONS TO THE PREVIOUSLY PERMITTED DESIGN.

- Elevations refer to the North American Vertical Datum of 1988 (NAVD88).
- This site appears to lie within flood zones "A", "AE", and "X" according to Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Community Panel 120230 0360 F Map No. 12101C0360F (dated September 26, 2014)

SEE SHEET 11 FOR EXISTING DRAINAGE STRUCTURE DATA

THE EXISTING TOPOGRAPHY SHOWN IN THESE PLANS REPRESENTS THE ORIGINAL TOPOGRAPHY OF THE PROJECT SITE AS PER THE SURVEY DATA PROVIDED BY REGENCY DESIGN, PRIOR TO THE MASS GRADING OPERATION. THE CONTRACTOR/OWNER SHALL PROVIDE UPDATED TOPOGRAPHY OF THE PROJECT SITE FOR CONSTRUCTION BID PURPOSES

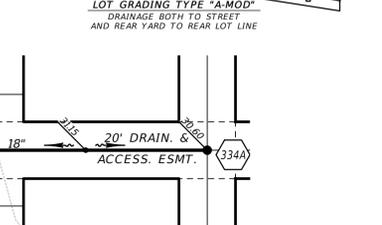
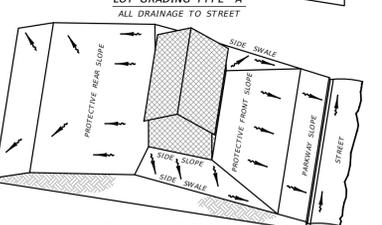
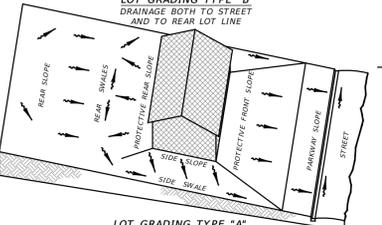
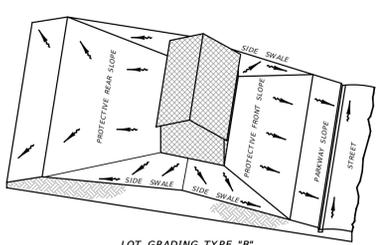
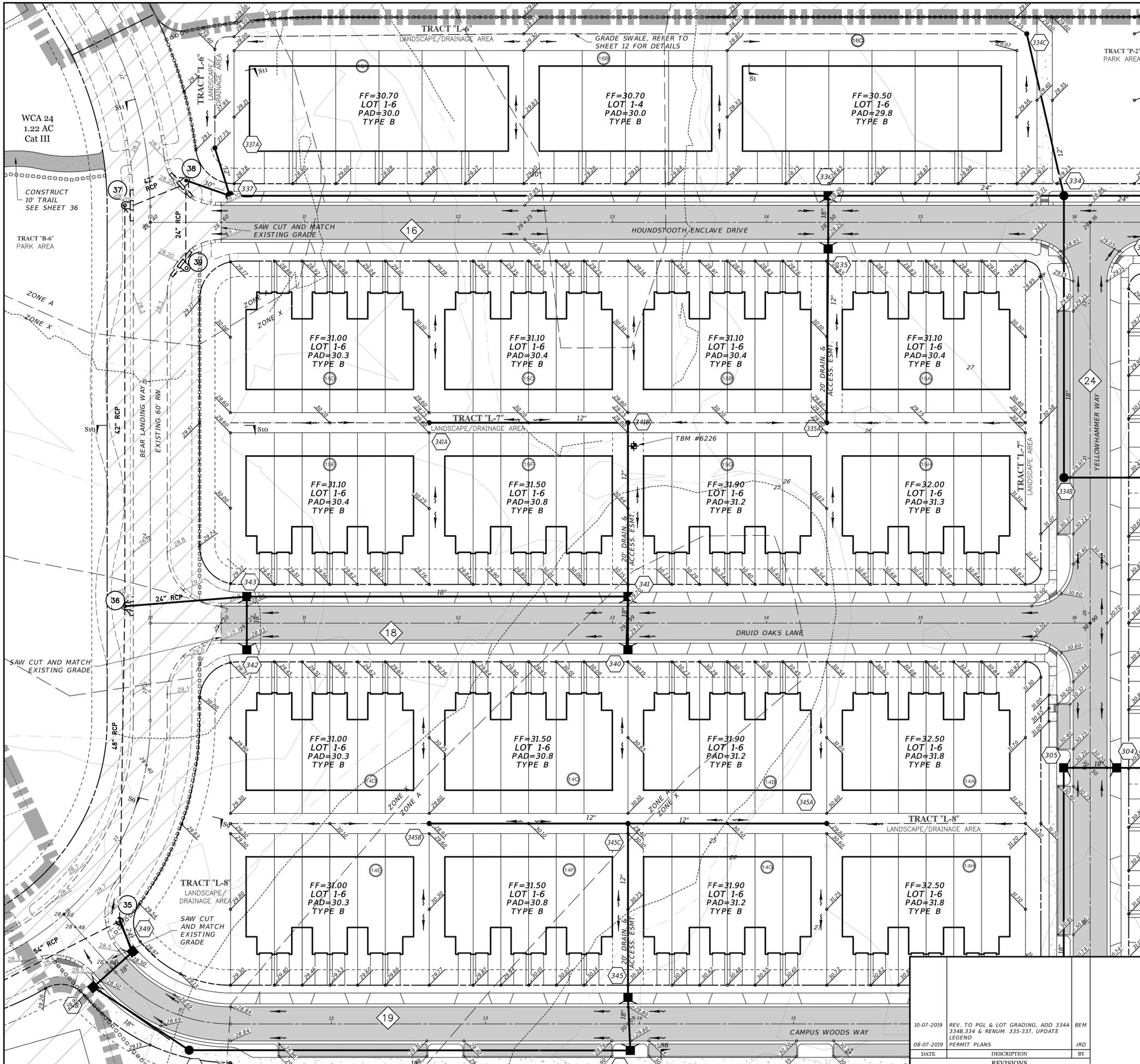
DATE	DESCRIPTION	BY
10-07-2019	REMOVE 848.332A, 6332B; ADD 311A, 334A	BEM
08-07-2019	334B, 334; RENUM. 335-337	JRD
	PERMIT PLANS	

Clearview LAND DESIGN, P.L.L.C.
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 3010 W. Azalea St., Suite 150, Tampa, Florida 33609
 Office: 813-223-3919 Fax: 813-223-3975

MASTER DRAINAGE PLAN	
JOB NO. LNH-MR-014	MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS
DESIGN MELVIN	
DRAWN DROOR	PREPARED FOR LENNAR HOMES
DATE 10-07-2019	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet
FILE MD	SHEET 5 OF 45 SHEETS

BRIAN G. SURAK P.E. NO. 59064
 FLORIDA PROFESSIONAL ENGINEER

P:\MITCHELL RANCH\MITCHELL RANCH 54 WEST PHASE 2\DRAWINGS\CONDOS\WLDWG-8 MASTER DRAINAGE PLAN 2019/10/07 10:35 AM BRETT MELVIN



SCALE: 1" = 30'

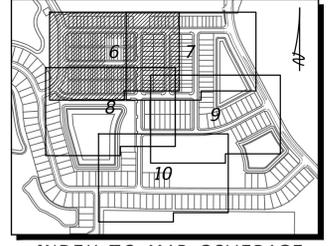
LEGEND

EXISTING	PROPOSED	DESCRIPTION
		STORM DRAINAGE STRUCTURE & PIPE SIZE IN INCHES
		STRUCTURE NO.
		SPOT ELEVATION
		PROPOSED PROFILE GRADE ELEVATION
		CONTOUR
		DIRECTION OF SURFACE FLOW
		STAKED EROSION CONTROL
		FEMA FLOOD ZONE BOUNDARY
		BASE FLOOD ELEVATION (FT)
		WETLAND LINE
		25' OFFSET FROM WETLAND LINE
		WCA 108 (Ac.) PASCO WETLAND CATEGORY
		WETLAND AREAS
		PROJECT BOUNDARY
		PLAN & PROFILE SHEET NO. REFERENCE
		ROADWAY AUGER LOCATION
		BLOCK NUMBER
		FINISHED FLOOR ELEV.
		LOT NUMBER
		PAD ELEVATION
		LOT GRADING TYPE
		5' DRAINAGE & ACCESS EASEMENT REQUIRED WHERE SHOWN
		5' WIDE x 4' THK. CONCRETE SIDEWALK TO BE INSTALLED BY SITE DEVELOPER
		FUTURE IMPROVEMENTS NOT WITHIN PHASE 2 SCOPE
		IMPROVEMENTS NOT WITHIN PHASE 2 SCOPE. REFER TO MASS GRADING, MASTER INFRASTRUCTURE, AND PHASE 1 PLANS BY REGENCY DESIGN & ENGINEERING

GRADING & DRAINAGE PLAN NOTES:

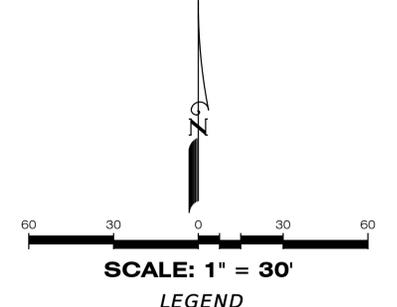
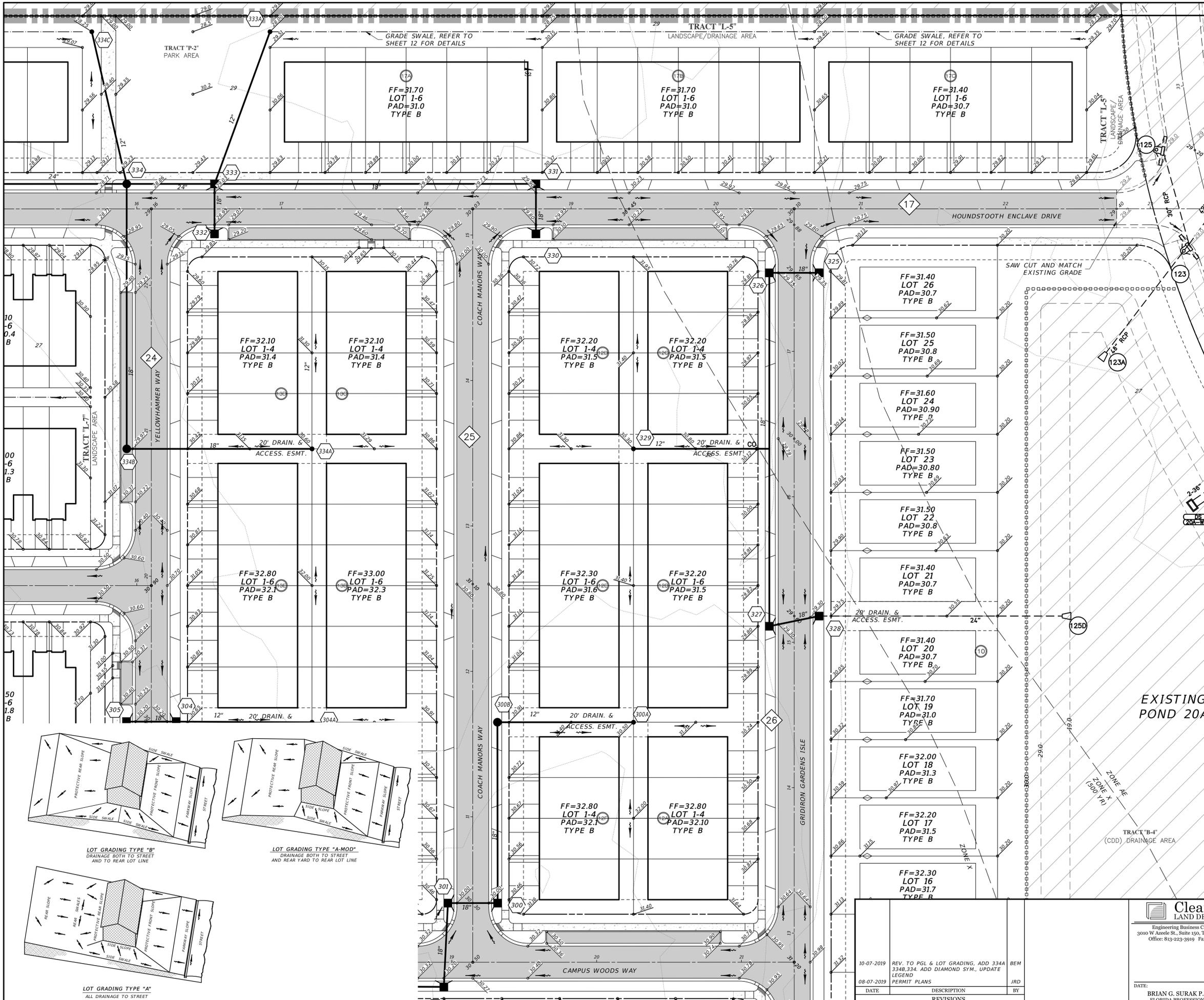
1. Pad grades shown are minimum grades. Elevations of adjoining lots, existing trees, and other field conditions may warrant lowering lots which are higher in their natural state. The Contractor should consult with the Developer/Builder and the Engineer prior to grading activities when these conditions exist.
2. For all lots abutting wetlands no grading shall take place beyond the erosion control line unless specifically shown on the approved construction plans.
3. Side yard swales shall be constructed simultaneously with house construction. During the site grading activities, the contractor shall grade the side yards to an elevation no lower than 0.2 ft. below the adjoining house pad grades.
4. For Type "A" lot grading receiving runoff from abutting Type "B" lots, all runoff shall be directed to side yard swales.
5. For Type "B" lot grading not abutting detention facilities, the builder shall make every practical effort to direct roof runoff to the side yard swales unless otherwise directed by the Engineer of Record.
6. For Type "A" lot grading, the builder shall make every practical effort to direct roof runoff to the side-yard swales unless directed otherwise by the Engineer of Record.
7. Minimum side yard swale slopes shall be 10%.
8. The site appears to lie within Flood Zone "A" "AE" & "X" according to Federal Emergency Management Agency (FEMA). Community-based No. 120230 0360 F1 (Map Number 1202300360 F1) revised September 26, 2014. Flood Zone determination based on FIRM data supplied by FEMA NIP. Base Flood Elevation = 29.0 ft., NAVD88.
9. If prehistoric artifacts such as pottery or ceramics, stone tools or metal implements, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time, the project should cease all activities involving subsurface disturbance in the immediate vicinity of such discoveries. The applicant, or designer, should contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section at 850.245.6333, as well as the appropriate funding agency office. Project activities should not resume without verbal and/or written authorization from the Division of Historical Resources.
10. In the event that unmarked human remains are encountered during permitted activities, all work must stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes.

ALL EXISTING WELLS SHALL BE ABANDONED BY A FLORIDA-LICENSED WATER WELL CONTRACTOR IN ACCORDANCE WITH RULE 40D-3.531(2) F.A.C. UNLESS OTHERWISE NOTED.



Clearview LAND DESIGN, P.L. Engineering Business C.A. No.: 28858 3010 W Azeele St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975		NEIGHBORHOOD GRADING PLAN MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS	
JOB NO. LNH-MR-014	DESIGN MELVIN	DRAWN DROOR	PREPARED FOR LENNAR HOMES
DATE 10-07-2019	DESCRIPTION REVISIONS	FILE NG	ELEVATIONS based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet
10-07-2019 REV. TO PGL & LOT GRADING, ADD 334A 334B, 334 & RENUM. 335-337, UPDATE LEGEND BEM 08-07-2019 PERMIT PLANS JRD		SHEET 6 OF 45 SHEETS	

P:\MITCHELL RANCH\MITCHELL RANCH 54 WEST PHASE 2\DRAWING\CONDOCS\NG\NG-6 NEIGHBORHOOD GRADING PLAN 2019/10/07 10:36 AM BRETT MELVIN

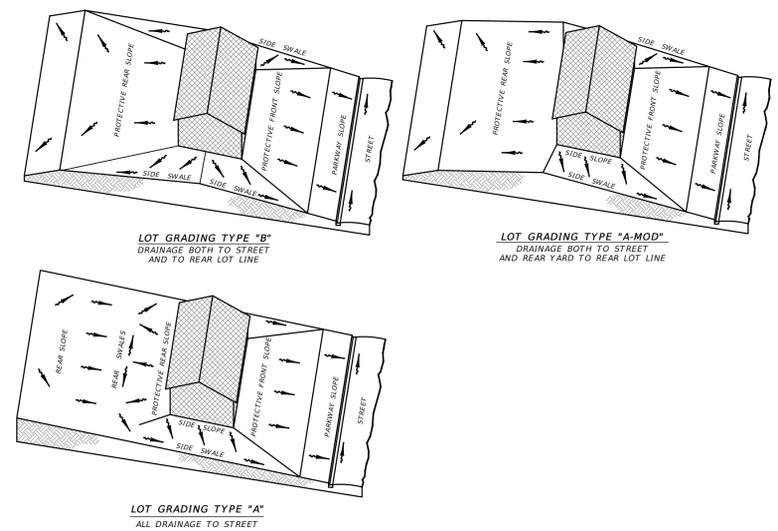
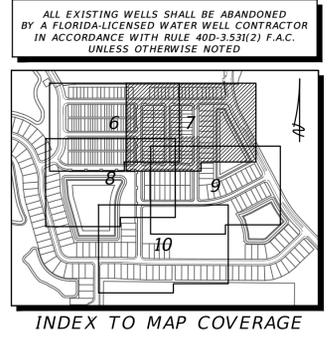


LEGEND

EXISTING	PROPOSED	DESCRIPTION
		STORM DRAINAGE STRUCTURE & PIPE PIPE SIZE IN INCHES
		SPOT ELEVATION
		PROPOSED PROFILE GRADE ELEVATION
		CONTOUR
		DIRECTION OF SURFACE FLOW
		STAKED EROSION CONTROL
		FEMA FLOOD ZONE BOUNDARY
		BASE FLOOD ELEVATION (FT)
		WETLAND LINE
		25' OFFSET FROM WETLAND LINE
		WETLAND CONSERVATION AREA PASCO WETLAND CATEGORY
		WETLAND AREAS
		PROJECT BOUNDARY
		PLAN & PROFILE SHEET NO. REFERENCE
		ROADWAY AUGER LOCATION
		BLOCK NUMBER
		FINISHED FLOOR ELEV.
		PAD ELEVATION
		LOT GRADING TYPE
		5' DRAINAGE & ACCESS EASEMENT REQUIRED WHERE SHOWN
		5' WIDE x 4' THK. CONCRETE SIDEWALK TO BE INSTALLED BY SITE DEVELOPER
		FUTURE IMPROVEMENTS NOT WITHIN PHASE 2 SCOPE
		IMPROVEMENTS NOT WITHIN PHASE 2 SCOPE. REFER TO MASS GRADING, MASTER INFRASTRUCTURE, AND PHASE 1 PLANS BY REGENCY DESIGN & ENGINEERING

GRADING & DRAINAGE PLAN NOTES:

1. Pad grades shown are minimum grades. Elevations of adjoining lots, existing trees, and other field conditions may warrant lowering lots which are higher in their natural state. The Contractor should consult with the Developer/Builder and the Engineer prior to grading activities when these conditions exist.
2. For all lots abutting wetlands no grading shall take place beyond the erosion control line unless specifically shown on the approved construction plans.
3. Side yard swales shall be constructed simultaneously with house construction. During the site grading activities, the contractor shall grade the side yards to an elevation no lower than 0.2 ft. below the adjoining house pad grades.
4. For Type "A" lot grading receiving runoff from abutting Type "B" lots, all runoff shall be directed to side yard swales.
5. For Type "B" lot grading not abutting detention facilities, the builder shall make every practical effort to direct roof runoff to the side yard swales unless otherwise directed by the Engineer of Record.
6. For Type "K" lot grading, the builder shall make every practical effort to direct roof runoff to the side-yard swales unless directed otherwise by the Engineer of Record.
7. Minimum side yard swale slopes shall be 10%.
8. The site appears to lie within Flood Zone "A" "AE" or "X" according to Federal Emergency Management Agency (FEMA) - Community-Panel No. 120230 0360 F (Map Number 1202300360) revised September 26, 2014. Flood Zone determination based on FEMA data supplied by FEMA NIP. Base Flood Elevation = 27.0 ft. NAVD83.
9. If prehistoric artifacts such as pottery or ceramics, stone tools or metal implements, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time, the project should cease all activities involving subsurface disturbance in the immediate vicinity of such discoveries. The applicant, or designer, should contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section at 850.245.6333, as well as the appropriate funding agency office. Project activities should not resume without verbal and/or written authorization from the Division of Historical Resources.
10. In the event that unmarked human remains are encountered during permitted activities, all work must stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes.



<p>10-07-2019 REV. TO PGL & LOT GRADING, ADD 334A 334B, 334C, ADD DIAMOND SYM., UPDATE LEGEND</p> <p>08-07-2019 PERMIT PLANS</p>		<p>BEM</p> <p>JRD</p>
DATE	DESCRIPTION	BY
10-07-2019	REV. TO PGL & LOT GRADING, ADD 334A 334B, 334C, ADD DIAMOND SYM., UPDATE LEGEND	BEM
08-07-2019	PERMIT PLANS	JRD

Clearview
LAND DESIGN, P.L.
Engineering Business C.A. No. 28858
3010 W Azele St., Suite 150, Tampa, Florida 33609
Office: 813-223-3919 Fax: 813-223-3975

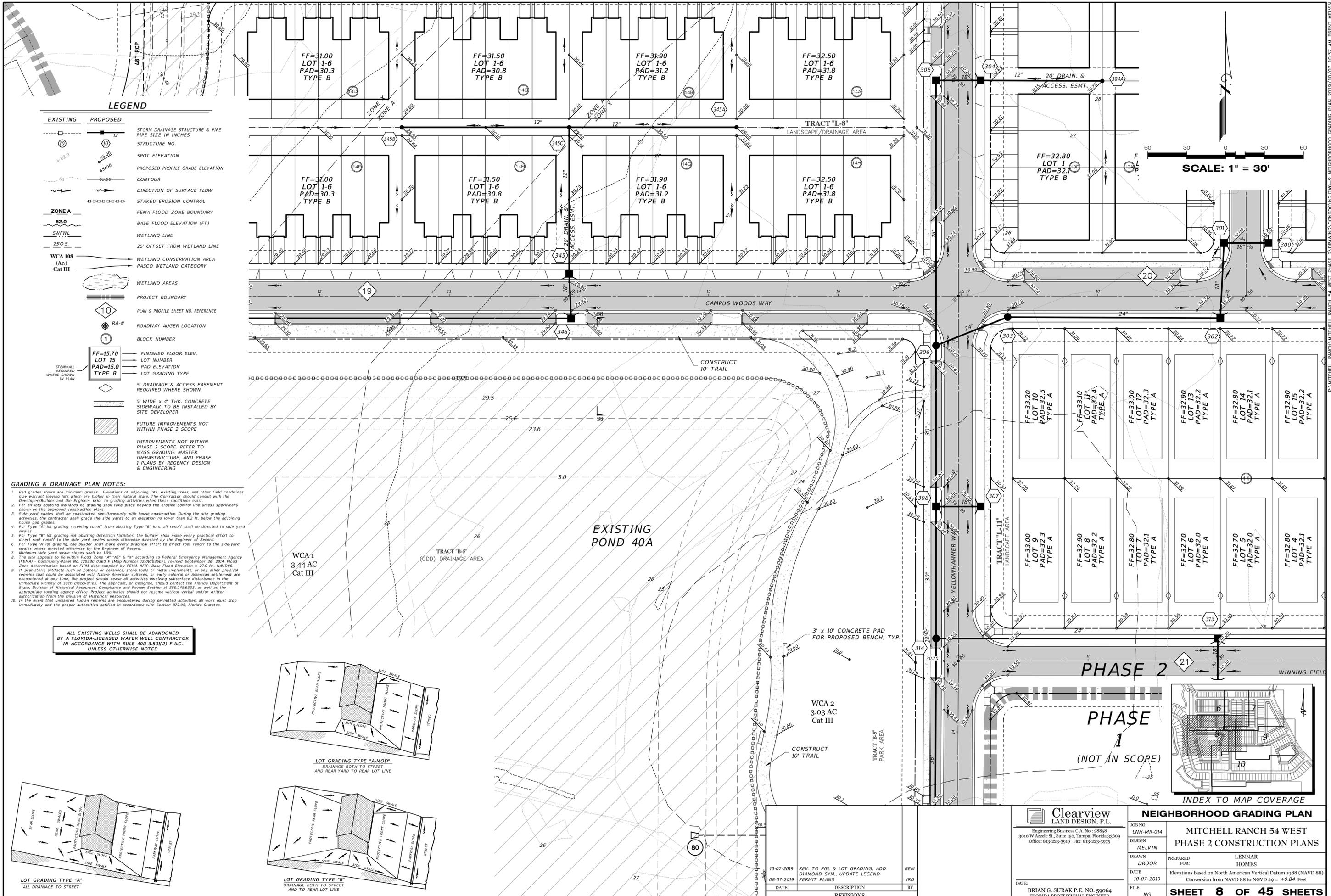
NEIGHBORHOOD GRADING PLAN
JOB NO. LNH-MR-014
DESIGN MELVIN
DRAWN DROOR
DATE 10-07-2019
FILE NG

MITCHELL RANCH 54 WEST
PHASE 2 CONSTRUCTION PLANS

PREPARED FOR: LENNAR HOMES
Elevations based on North American Vertical Datum 1988 (NAVD 88)
Conversion from NAVD 88 to NGVD 29 = +0.84 Feet

SHEET 7 OF 45 SHEETS

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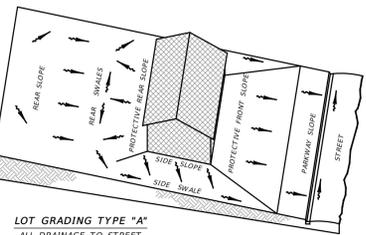
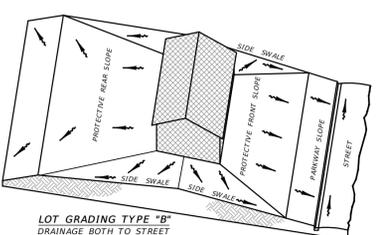
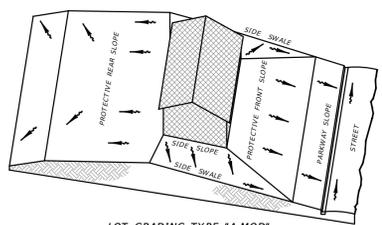


LEGEND

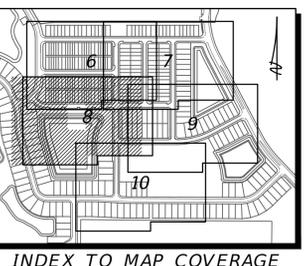
- | | | |
|--|--|---|
| | | STORM DRAINAGE STRUCTURE & PIPE
PIPE SIZE IN INCHES |
| | | SPOT ELEVATION |
| | | PROPOSED PROFILE GRADE ELEVATION |
| | | CONTOUR |
| | | DIRECTION OF SURFACE FLOW |
| | | STAKED EROSION CONTROL |
| | | FEMA FLOOD ZONE BOUNDARY |
| | | BASE FLOOD ELEVATION (FT) |
| | | WETLAND LINE |
| | | 25' OFFSET FROM WETLAND LINE |
| | | WETLAND CONSERVATION AREA |
| | | PASCO WETLAND CATEGORY |
| | | WETLAND AREAS |
| | | PROJECT BOUNDARY |
| | | PLAN & PROFILE SHEET NO. REFERENCE |
| | | ROADWAY AUGER LOCATION |
| | | BLOCK NUMBER |
| | | FINISHED FLOOR ELEV. |
| | | LOT NUMBER |
| | | PAD ELEVATION |
| | | LOT GRADING TYPE |
| | | 5' DRAINAGE & ACCESS EASEMENT
REQUIRED WHERE SHOWN. |
| | | 5' WIDE x 4' THK. CONCRETE
SIDEWALK TO BE INSTALLED BY
SITE DEVELOPER |
| | | FUTURE IMPROVEMENTS NOT
WITHIN PHASE 2 SCOPE |
| | | IMPROVEMENTS NOT WITHIN
PHASE 2 SCOPE. REFER TO
MASS GRADING, MASTER
INFRASTRUCTURE, AND PHASE
1 PLANS BY REGENCY DESIGN
& ENGINEERING |

- GRADING & DRAINAGE PLAN NOTES:**
1. Pad grades shown are minimum grades. Elevations of adjoining lots, existing trees, and other field conditions may warrant leaving lots which are higher in their natural state. The Contractor should consult with the Developer/Builder and the Engineer prior to grading activities when these conditions exist.
 2. For all lots abutting wetlands no grading shall take place beyond the erosion control line unless specifically shown on the approved construction plans.
 3. Side yard swales shall be constructed simultaneously with house construction. During the site grading activities, the contractor shall grade the side yards to an elevation no lower than 0.2 ft. below the adjoining house pad grades.
 4. For Type "A" lot grading receiving runoff from abutting Type "B" lots, all runoff shall be directed to side yard swales.
 5. For Type "B" lot grading not abutting detention facilities, the builder shall make every practical effort to direct roof runoff to the side yard swales unless otherwise directed by the Engineer of Record.
 6. For Type "A" lot grading, the builder shall make every practical effort to direct roof runoff to the side-yard swales unless directed otherwise by the Engineer of Record.
 7. Minimum side yard swale slopes shall be 1.0%.
 8. The site appears to lie within Flood Zone "A", "AE", & "X" according to Federal Emergency Management Agency (FEMA) - Community Panel No. 120230 0360 P (Map Number 1202C0360P), revised September 26, 2014, Flood Zone determination based on FIRM data supplied by FEMA WIP. Base Flood Elevation = 27.0 ft. MVD08.
 9. If prehistoric artifacts such as pottery or ceramics, stone tools or metal implements, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time, the project should cease all activities involving subsurface disturbance in the immediate vicinity of such discoveries. The applicant, or designer, should contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section, at 850.245.6393, as well as the appropriate funding agency office. Project activities should not resume without verbal and/or written authorization from the Division of Historical Resources.
 10. In the event that unmarked human remains are encountered during permitted activities, all work must stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes.

ALL EXISTING WELLS SHALL BE ABANDONED BY A FLORIDA-LICENSED WATER WELL CONTRACTOR IN ACCORDANCE WITH RULE 40D-3.531(2) F.A.C. UNLESS OTHERWISE NOTED



SCALE: 1" = 30'



Clearview LAND DESIGN, P.L. Engineering Business C.A. No. 28858 3010 W Azele St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975		NEIGHBORHOOD GRADING PLAN JOB NO. LNH-MR-014 DESIGN MELVIN DRAWN DROOR DATE 10-07-2019 FILE NG	
10-07-2019 REV. TO PGL & LOT GRADING, ADD DIAMOND SYM., UPDATE LEGEND 08-07-2019 PERMIT PLANS		PREPARED FOR: LENNAR HOMES Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet	
DATE	DESCRIPTION	BY	SHEET 8 OF 45 SHEETS
10-07-2019	REV. TO PGL & LOT GRADING, ADD DIAMOND SYM., UPDATE LEGEND	BEM	
08-07-2019	PERMIT PLANS	JRD	

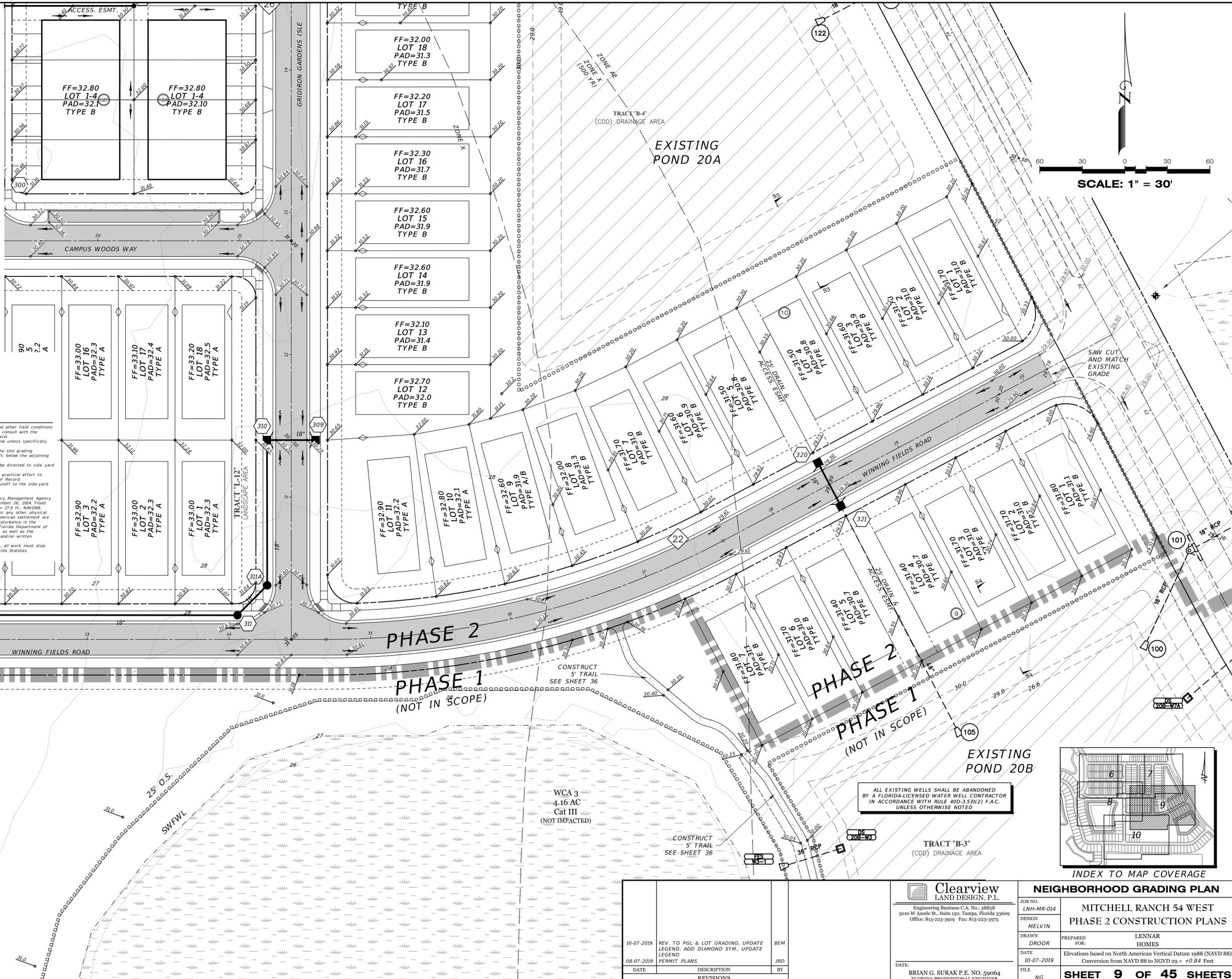
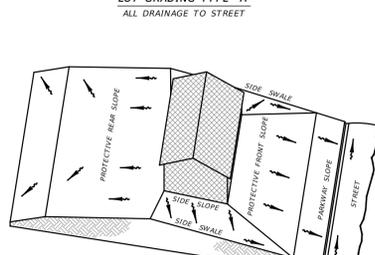
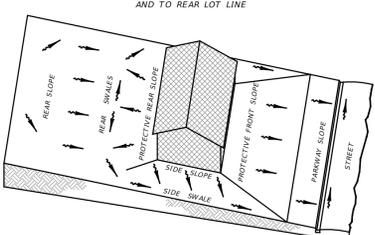
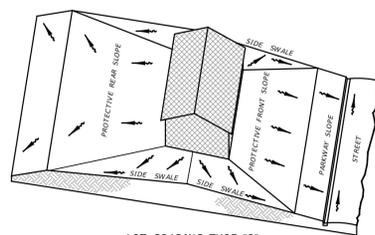
P:\MITCHELL RANCH\MITCHELL RANCH 54 WEST PHASE 2 DRAWING\CONDOCS\NG-DWG-9 NEIGHBORHOOD GRADING PLAN 2019/10/07 10:37 AM BRETT MELVIN

LEGEND

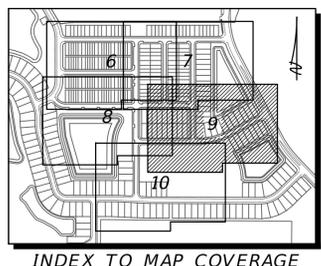
- | | | |
|--|--|--|
| | | STORM DRAINAGE STRUCTURE & PIPE
PIPE SIZE IN INCHES
STRUCTURE NO. |
| | | SPOT ELEVATION
PROPOSED PROFILE GRADE ELEVATION |
| | | CONTOUR
DIRECTION OF SURFACE FLOW |
| | | STAKED EROSION CONTROL
FEMA FLOOD ZONE BOUNDARY |
| | | BASE FLOOD ELEVATION (FT)
WETLAND LINE |
| | | 25' OFFSET FROM WETLAND LINE
WETLAND CONSERVATION AREA |
| | | WCA 108 (Ac.)
Cat III
PASCO WETLAND CATEGORY |
| | | WETLAND AREAS
PROJECT BOUNDARY |
| | | PLAN & PROFILE SHEET NO. REFERENCE
ROADWAY AUGER LOCATION |
| | | BLOCK NUMBER
FF=15.70
LOT 15
PAD=15.0
TYPE B |
| | | 5' DRAINAGE & ACCESS EASEMENT
REQUIRED WHERE SHOWN.
5' WIDE x 4' THK. CONCRETE
SIDEWALK TO BE INSTALLED BY
SITE DEVELOPER |
| | | FUTURE IMPROVEMENTS NOT
WITHIN PHASE 2 SCOPE
IMPROVEMENTS NOT WITHIN
PHASE 2 SCOPE. REFER TO
MASS GRADING, MASTER
INFRASTRUCTURE, AND PHASE
1 PLANS BY REGENCY DESIGN &
ENGINEERING |

GRADING & DRAINAGE PLAN NOTES:

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4. For Type "A" lot grading receiving runoff from abutting Type "B" lots, all runoff shall be directed to side yard swales.
5. For Type "B" lot grading not abutting detention facilities, the builder shall make every practical effort to direct roof runoff to the side yard swales unless otherwise directed by the Engineer of Record.
6. For Type "A" lot grading, the builder shall make every practical effort to direct roof runoff to the side-yard swales unless directed otherwise by the Engineer of Record.
7. Minimum side yard swale slopes shall be 10%.
8. The site appears to lie within Flood Zone "AE" and "X" according to Federal Emergency Management Agency (FEMA) - Community Panel No. 120230 0360 F (Map Number 1201020360F), revised September 26, 2014. Flood Zone determination based on FEMA data supplied by FEMA NEIP Base Flood Elevation = 27.0 ft. NAVD83.
9. If prehistoric artifacts such as pottery or ceramics, stone tools or metal implements, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time, the project should cease all activities involving subsurface disturbance in the immediate vicinity of such discoveries. The applicant, or designer, should contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section at 850.245.6333, as well as the appropriate funding agency office. Project activities should not resume without verbal and/or written authorization from the Division of Historical Resources.
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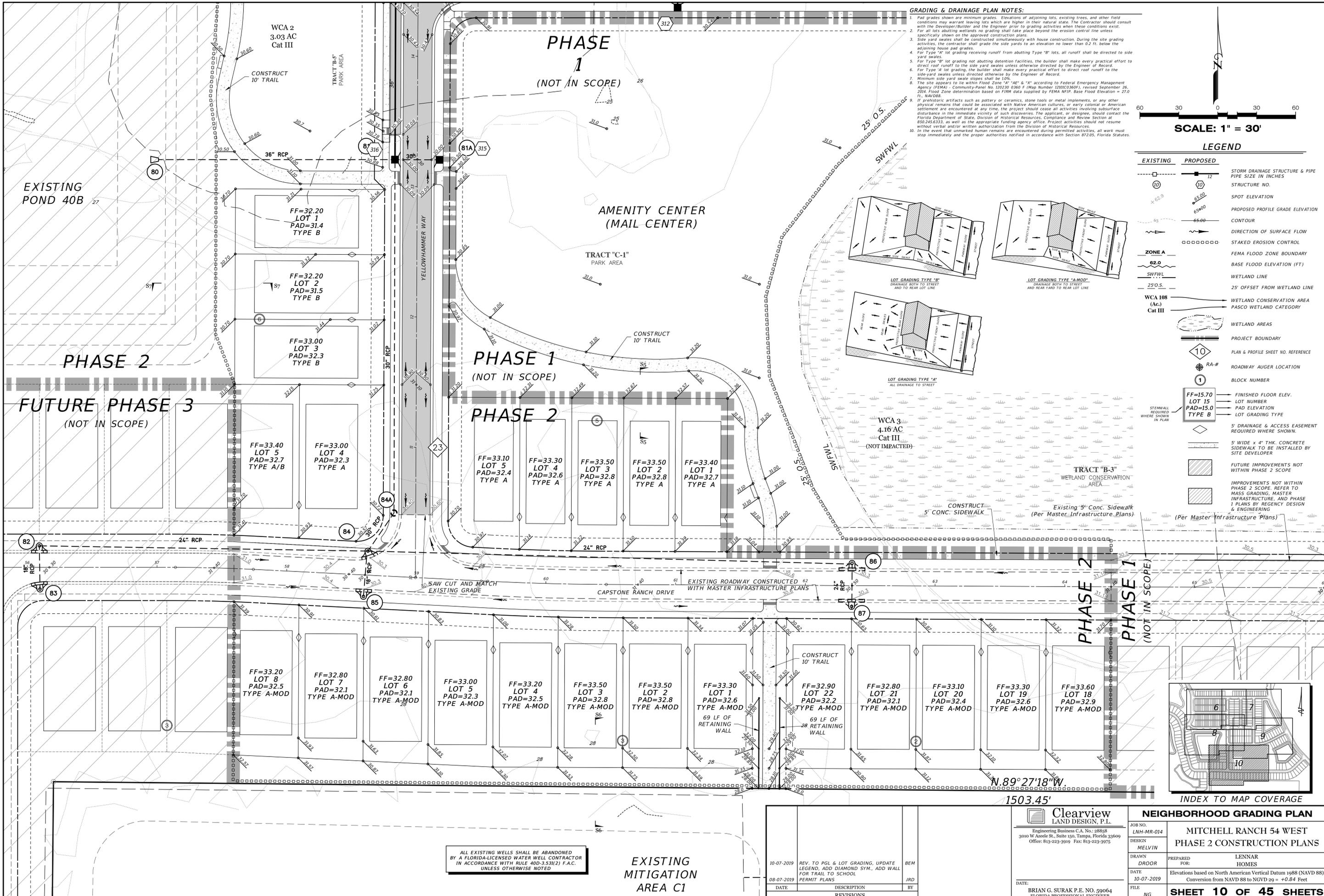
SCALE: 1" = 30'



ALL EXISTING WELLS SHALL BE ABANDONED BY A FLORIDA-LICENSED WATER WELL CONTRACTOR IN ACCORDANCE WITH RULE 40D-3.531(2) F.A.C. UNLESS OTHERWISE NOTED

<p>10-07-2019 REV. TO PGL & LOT GRADING, UPDATE LEGEND, ADD DIAMOND SYM., UPDATE LEGEND</p>		BEM
<p>08-07-2019 PERMIT PLANS</p>		JRD
DATE	DESCRIPTION	BY
REVISIONS		
<p>Clearview LAND DESIGN, P.L. Engineering Business C.A. No.: 28858 3010 W Azele St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975</p>		
<p>NEIGHBORHOOD GRADING PLAN</p>		
<p>JOB NO. LNH-MR-014 DESIGN MELVIN DRAWN DROOR DATE 10-07-2019 FILE NG</p>		
<p>MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS</p>		
<p>PREPARED FOR: LENNAR HOMES</p>		
<p>Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet</p>		
<p>SHEET 9 OF 45 SHEETS</p>		

P:\MITCHELL RANCH\MITCHELL RANCH 54 WEST PHASE 2\DRAWING\CONDO\NG.DWG-10 NEIGHBORHOOD GRADING PLAN 2019/10/07 10:37 AM BRETT MELVIN



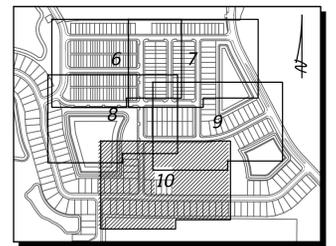
GRADING & DRAINAGE PLAN NOTES:

1. Pad grades shown are minimum grades. Elevations of adjoining lots, existing trees, and other field conditions may warrant leaving lots which are higher in their natural state. The Contractor should consult with the Developer/Builder and the Engineer prior to grading activities when these conditions exist.
2. For all lots abutting wetlands no grading shall take place beyond the erosion control line unless specifically shown on the approved construction plans.
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4. For Type "a" lot grading receiving runoff from abutting Type "B" lots, all runoff shall be directed to side yard swales.
5. For Type "B" lot grading not abutting detention facilities, the builder shall make every practical effort to direct roof runoff to the side yard swales unless otherwise directed by the Engineer of Record.
6. For Type "a" lot grading, the builder shall make every practical effort to direct roof runoff to the side-yard swales unless directed otherwise by the Engineer of Record.
7. Minimum side yard swale slopes shall be 10%.
8. The site appears to be within Flood Zone "AE" & "X" according to Federal Emergency Management Agency (FEMA) - Community Panel No. 120230 0360 F (Map Number 1210C0360F), revised September 26, 2004. Flood Zone determination based on FIRM data supplied by FEMA WFP. Base Flood Elevation = 27.0 ft. NAVD83.
9. If prehistoric artifacts such as pottery or ceramics, stone tools or metal implements, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time, the project should cease all activities involving subsurface disturbance in the immediate vicinity of such discoveries. The applicant, or designer, should contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section at 850.245.6333, as well as the appropriate funding agency office. Project activities should not resume without verbal and/or written authorization from the Division of Historical Resources.
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LEGEND

EXISTING	PROPOSED	DESCRIPTION
		STORM DRAINAGE STRUCTURE & PIPE PIPE SIZE IN INCHES STRUCTURE NO.
		SPOT ELEVATION PROPOSED PROFILE GRADE ELEVATION
		CONTOUR
		DIRECTION OF SURFACE FLOW STAKED EROSION CONTROL
		FEMA FLOOD ZONE BOUNDARY
		BASE FLOOD ELEVATION (FT)
		WETLAND LINE
		25' OFFSET FROM WETLAND LINE
		WCA 108 (Ac.) Cat III WETLAND CONSERVATION AREA PASCO WETLAND CATEGORY
		WETLAND AREAS
		PROJECT BOUNDARY
		PLAN & PROFILE SHEET NO. REFERENCE
		ROADWAY AUGER LOCATION
		BLOCK NUMBER
		FINISHED FLOOR ELEV. LOT NUMBER PAD ELEVATION LOT GRADING TYPE
		5' DRAINAGE & ACCESS EASEMENT REQUIRED WHERE SHOWN.
		5' WIDE x 4' THK. CONCRETE SIDEWALK TO BE INSTALLED BY SITE DEVELOPER
		FUTURE IMPROVEMENTS NOT WITHIN PHASE 2 SCOPE
		IMPROVEMENTS NOT WITHIN PHASE 2 SCOPE. REFER TO MASS GRADING, MASTER INFRASTRUCTURE, AND PHASE 1 PLANS BY REGENCY DESIGN & ENGINEERING (Per Master Infrastructure Plans)



ALL EXISTING WELLS SHALL BE ABANDONED BY A FLORIDA-LICENSED WATER WELL CONTRACTOR IN ACCORDANCE WITH RULE 40D-3.531(2) F.A.C. UNLESS OTHERWISE NOTED.

EXISTING MITIGATION AREA C1

DATE	DESCRIPTION	BY
10-07-2019	REV. TO PGL & LOT GRADING, UPDATE LEGEND, ADD DIAMOND SYM., ADD WALL FOR TRAIL TO SCHOOL	BEM
08-07-2019	PERMIT PLANS	JRD
	REVISIONS	

Clearview LAND DESIGN, P.L.L.C.
 Engineering Business C.A. No.: 28858
 3010 W. Azeele St., Suite 150, Tampa, Florida 33609
 Office: 813-223-3919 Fax: 813-223-3975

DATE: _____
 BRIAN G. SURAK P.E. NO. 59064
 FLORIDA PROFESSIONAL ENGINEER

NEIGHBORHOOD GRADING PLAN

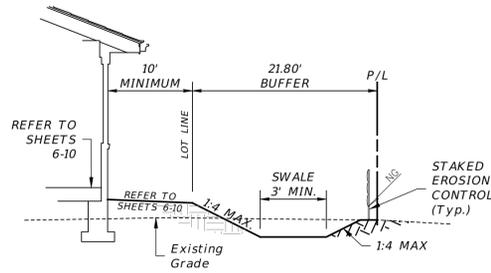
JOB NO. LNH-MR-014
 DESIGN: MELVIN
 DRAWN: DROOR
 DATE: 10-07-2019
 FILE: NG

MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS

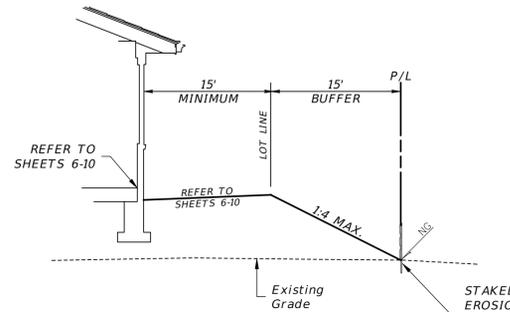
PREPARED FOR: LENNAR HOMES
 ELEVATIONS based on North American Vertical Datum 1988 (NAVD 88)
 Conversion from NAVD 88 to NGVD 29 = +0.84 Feet

SHEET 10 OF 45 SHEETS

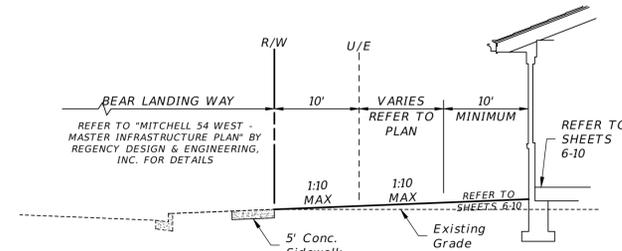
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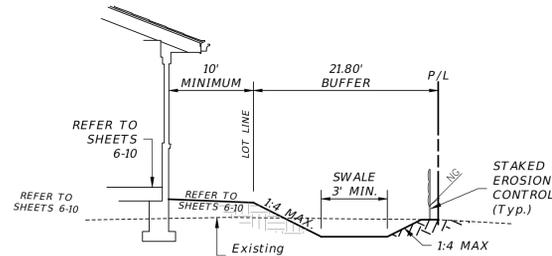
SECTION S1-S1
- NO SCALE -



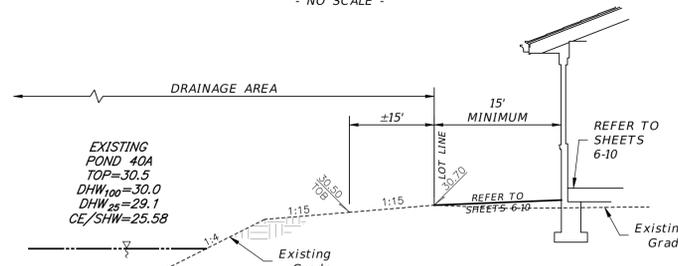
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- NO SCALE -



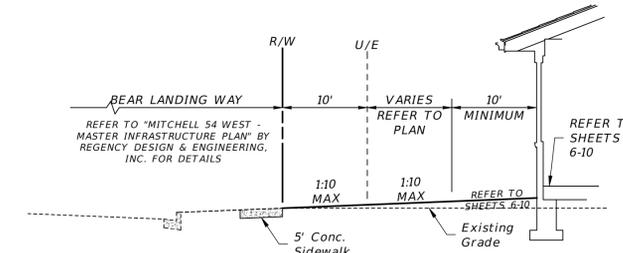
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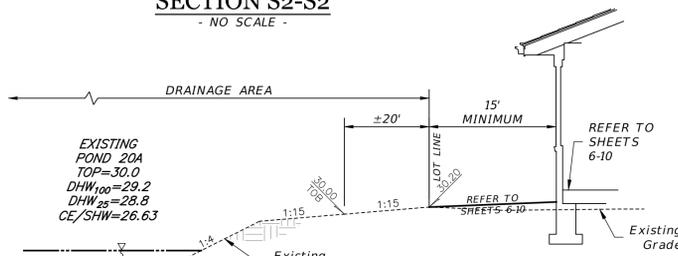
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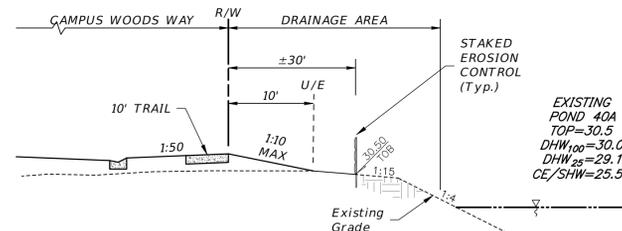
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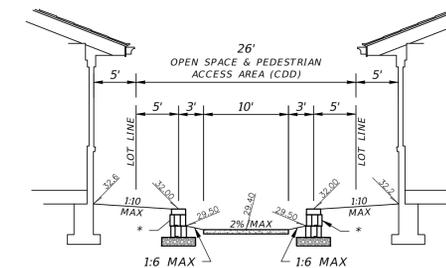
SECTION S11-S11
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SECTION S3-S3
- NO SCALE -

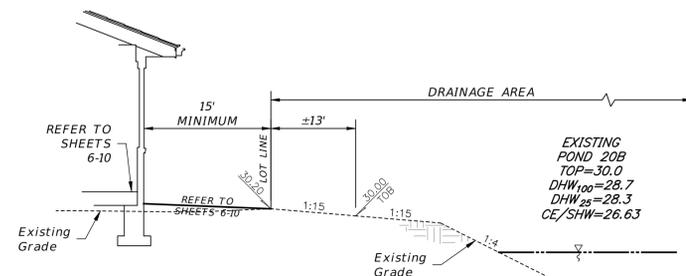


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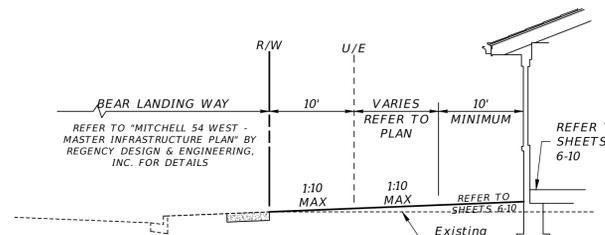


SECTION S12-S12
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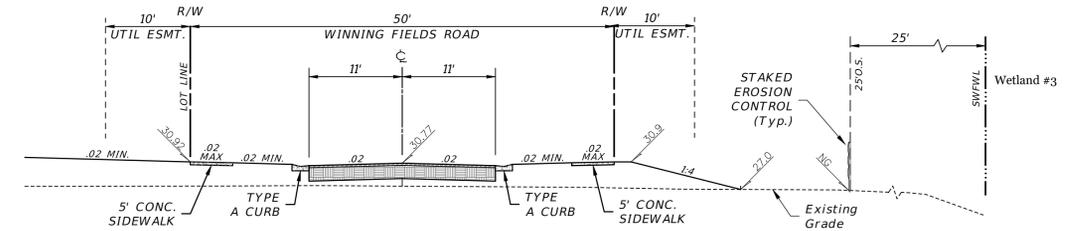
***RETAINING WALL NOTES**
 1. Wall shall be Anchor Block segmental wall or approved equal, wall shall be designed by a Florida-licensed Professional Engineer, and wall shall separately permitted through the Building Department.
 2. Wall batter angle and length of geogrid to be determined by wall designer.
 3. For wall heights exceeding 30', provide 42" guiderail per FDOT Indices 515-070 or 515-080



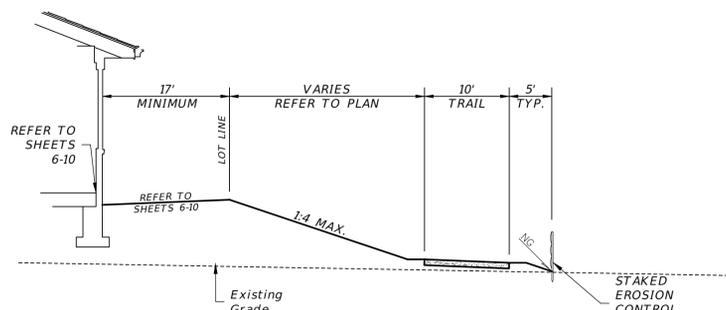
SECTION S4-S4
- NO SCALE -



SECTION S9-S9
- NO SCALE -



SECTION S13-S13
- NO SCALE -



SECTION S5-S5
- NO SCALE -

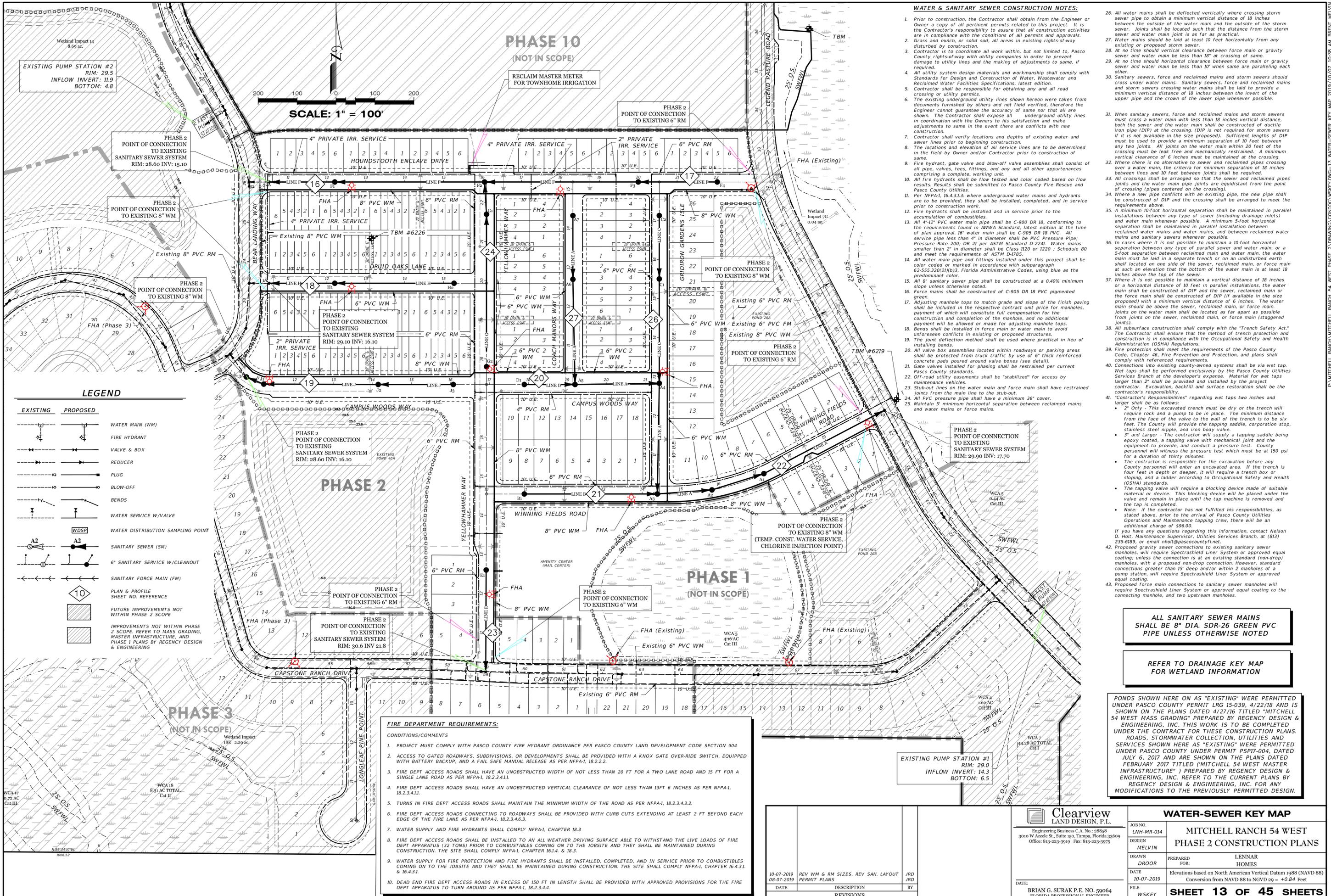
PONDS SHOWN HERE AS "EXISTING" WERE PERMITTED UNDER PASCO COUNTY PERMIT LRG 15-039, 4/22/18 AND ARE SHOWN ON THE PLANS DATED 4/27/16 TITLED "MITCHELL 54 WEST MASS GRADING" PREPARED BY REGENCY DESIGN & ENGINEERING, INC. THIS WORK IS TO BE COMPLETED UNDER THE CONTRACT FOR THESE CONSTRUCTION PLANS, ROADS, STORMWATER COLLECTION, UTILITIES AND SERVICES SHOWN HERE AS "EXISTING" WERE PERMITTED UNDER PASCO COUNTY UNDER PERMIT PSP17-004, DATED JULY 6, 2017 AND ARE SHOWN ON THE PLANS DATED FEBRUARY 2017 TITLED ("MITCHELL 54 WEST MASTER INFRASTRUCTURE") PREPARED BY REGENCY DESIGN & ENGINEERING, INC. REFER TO THE CURRENT PLANS BY REGENCY DESIGN & ENGINEERING, INC. FOR ANY MODIFICATIONS TO THE PREVIOUSLY PERMITTED DESIGN.

DATE	DESCRIPTION	BY
10-07-2019	ADD POND BANK SLOPES, S12-12, & S13-13	BEM
08-07-2019	PERMIT PLANS	JRD
	REVISIONS	

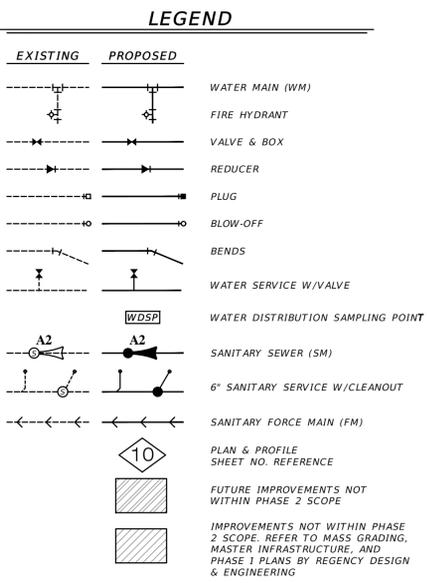
Clearview
LAND DESIGN, P.L.
 Engineering Business C.A. No.: 28858
 3010 W Azele St., Suite 150, Tampa, Florida 33609
 Office: 813-223-3919 Fax: 813-223-3975

DATE: _____
 BRIAN G. SURAK P.E. NO. 59064
 FLORIDA PROFESSIONAL ENGINEER

CROSS SECTIONS	
JOB NO.	LNH-MR-014
DESIGN	MELVIN
DRAWN	DROOR
DATE	10-07-2019
FILE	SEC
MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS	
PREPARED FOR:	LENNAR HOMES
Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet	
SHEET 12 OF 45 SHEETS	



- WATER & SANITARY SEWER CONSTRUCTION NOTES:**
- Prior to construction, the Contractor shall obtain from the Engineer or Owner a copy of all pertinent permits related to this project. It is the Contractor's responsibility to ensure that all construction activities are in compliance with the conditions of all permits and approvals.
 - Grass and mulch, or solid sod, all areas in existing rights-of-way disturbed by construction.
 - Contractor is to coordinate all work within, but not limited to, Pasco County rights-of-way with utility companies in order to prevent damage to utility lines and the making of adjustments to same, if required.
 - All utility system design materials and workmanship shall comply with Standards for Design and Construction of Water, Wastewater and Reclaimed Water Facilities Specifications, latest edition.
 - Contractor shall be responsible for obtaining any and all road crossing or utility permits.
 - The existing underground utility lines shown hereon were taken from documents furnished by others and not field verified, therefore the Engineer cannot guarantee the accuracy of same nor that all are shown. The Contractor shall expose all underground utility lines in coordination with the utility company's satisfaction and make adjustments to same in the event there are conflicts with new construction.
 - Contractor shall verify locations and depths of existing water and sewer lines prior to beginning construction.
 - The locations and elevation of all service lines are to be determined in the field by Owner and/or Contractor prior to construction of same.
 - Fire hydrant, gate valve and blow-off valve assemblies shall consist of all pipe, valves, tees, fittings, and any and all other appurtenances comprising a complete, working unit.
 - All fire hydrants shall be flow tested and color coded based on flow results. Results shall be submitted to Pasco County Fire Rescue and Pasco County Utilities.
 - Per NFPA-1, 16.4.3.1.3: where underground water mains and hydrants are to be provided, they shall be installed, completed, and in service prior to construction work.
 - Fire hydrants shall be installed and in service prior to the accumulation of combustibles.
 - All 42\"/>



- FIRE DEPARTMENT REQUIREMENTS:**
- CONDITIONS/COMMENTS
- PROJECT MUST COMPLY WITH PASCO COUNTY FIRE HYDRANT ORDINANCE PER PASCO COUNTY LAND DEVELOPMENT CODE SECTION 904
 - ACCESS TO GATED ROADWAYS, SUBDIVISIONS, OR DEVELOPMENTS SHALL BE PROVIDED WITH A KNOX GATE OVER-RIDE SWITCH, EQUIPPED WITH BATTERY BACKUP, AND A FAIL SAFE MANUAL RELEASE AS PER NFPA-1, 18.2.2.2.
 - FIRE DEPT ACCESS ROADS SHALL HAVE AN UNOBSTRUCTED WIDTH OF NOT LESS THAN 20 FT FOR A TWO LANE ROAD AND 15 FT FOR A SINGLE LANE ROAD AS PER NFPA-1, 18.2.3.4.1.1.
 - FIRE DEPT ACCESS ROADS SHALL HAVE AN UNOBSTRUCTED VERTICAL CLEARANCE OF NOT LESS THAN 13FT 6 INCHES AS PER NFPA-1, 18.2.3.4.1.1.
 - TURNS IN FIRE DEPT ACCESS ROADS SHALL MAINTAIN THE MINIMUM WIDTH OF THE ROAD AS PER NFPA-1, 18.2.3.4.3.2.
 - FIRE DEPT ACCESS ROADS CONNECTING TO ROADWAYS SHALL BE PROVIDED WITH CURB CUTS EXTENDING AT LEAST 2 FT BEYOND EACH EDGE OF THE FIRE LANE AS PER NFPA-1, 18.2.3.4.6.3.
 - WATER SUPPLY AND FIRE HYDRANTS SHALL COMPLY NFPA-1, CHAPTER 18.3
 - FIRE DEPT ACCESS ROADS SHALL BE INSTALLED TO AN ALL WEATHER DRIVING SURFACE ABLE TO WITHSTAND THE LIVE LOADS OF FIRE DEPT APPARATUS (32 TONS) PRIOR TO COMBUSTIBLES COMING ON TO THE JOBSITE AND THEY SHALL BE MAINTAINED DURING CONSTRUCTION, THE SITE SHALL COMPLY NFPA-1, CHAPTER 16.1.4 & 18.3.
 - WATER SUPPLY FOR FIRE PROTECTION AND FIRE HYDRANTS SHALL BE INSTALLED, COMPLETED, AND IN SERVICE PRIOR TO COMBUSTIBLES COMING ON TO THE JOBSITE AND THEY SHALL BE MAINTAINED DURING CONSTRUCTION, THE SITE SHALL COMPLY NFPA-1, CHAPTER 16.4.3.1 & 16.4.3.1.
 - DEAD END FIRE DEPT ACCESS ROADS IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH APPROVED PROVISIONS FOR THE FIRE DEPT APPARATUS TO TURN AROUND AS PER NFPA-1, 18.2.3.4.4.

ALL SANITARY SEWER MAINS SHALL BE 8\"/>

REFER TO DRAINAGE KEY MAP FOR WETLAND INFORMATION

PONDS SHOWN HERE ON AS "EXISTING" WERE PERMITTED UNDER PASCO COUNTY PERMIT LRG 15-039, 4/22/18 AND IS SHOWN ON THE PLANS DATED 4/27/16 TITLED "MITCHELL 54 WEST MASS GRADING" PREPARED BY REGENCY DESIGN & ENGINEERING, INC. THIS WORK IS TO BE COMPLETED UNDER THE CONTRACT FOR THESE CONSTRUCTION PLANS. ROADS, STORMWATER COLLECTION, UTILITIES AND SERVICES SHOWN HERE AS "EXISTING" WERE PERMITTED UNDER PASCO COUNTY UNDER PERMIT PS917-004, DATED JULY 6, 2017 AND ARE SHOWN ON THE PLANS DATED FEBRUARY 2017 TITLED "MITCHELL 54 WEST MASTER INFRASTRUCTURE" PREPARED BY REGENCY DESIGN & ENGINEERING, INC. REFER TO THE CURRENT PLANS BY REGENCY DESIGN & ENGINEERING, INC. FOR ANY MODIFICATIONS TO THE PREVIOUSLY PERMITTED DESIGN.

Clearview LAND DESIGN, P.L.L.C.
 Engineering Business C.A. No.: 28858
 3010 W Azeale St., Suite 150, Tampa, Florida 33609
 Office: 813-223-3919 Fax: 813-223-3975

WATER-SEWER KEY MAP

MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS

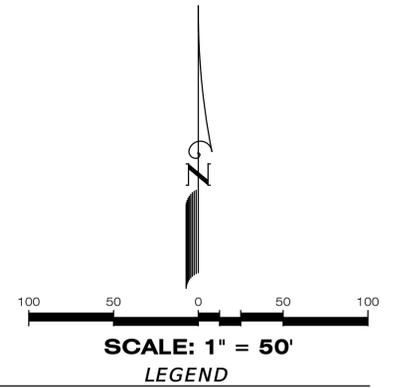
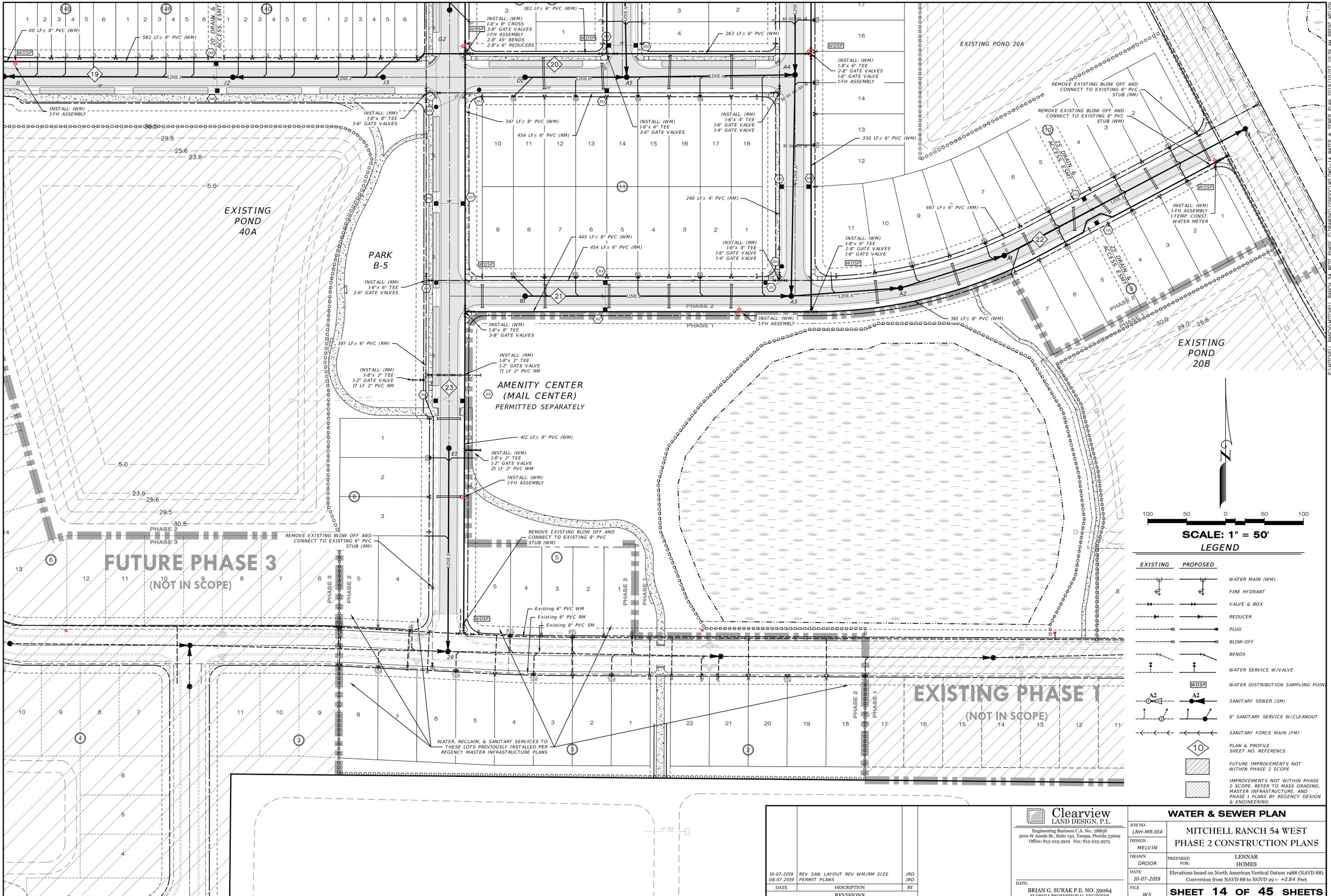
JOB NO: LNH-MR-014
 DESIGN: MELVIN
 DRAWN: DROOR
 DATE: 10-07-2019
 FILE: WSKY

PREPARED FOR: LENNAR HOMES
 ELEVATIONS based on North American Vertical Datum 1988 (NAVD 88)
 Conversion from NAVD 88 to NGVD 29 = +0.84 Feet

SHEET 13 OF 45 SHEETS

DATE	DESCRIPTION	BY
10-07-2019	REV WM & RM SIZES, REV SAN. LAYOUT	JRD
08-07-2019	PERMIT PLANS	JRD
	REVISIONS	

BRIAN G. SURAK P.E. No. 59064
 FLORIDA PROFESSIONAL ENGINEER



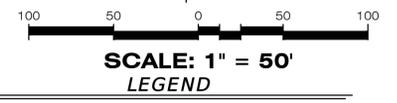
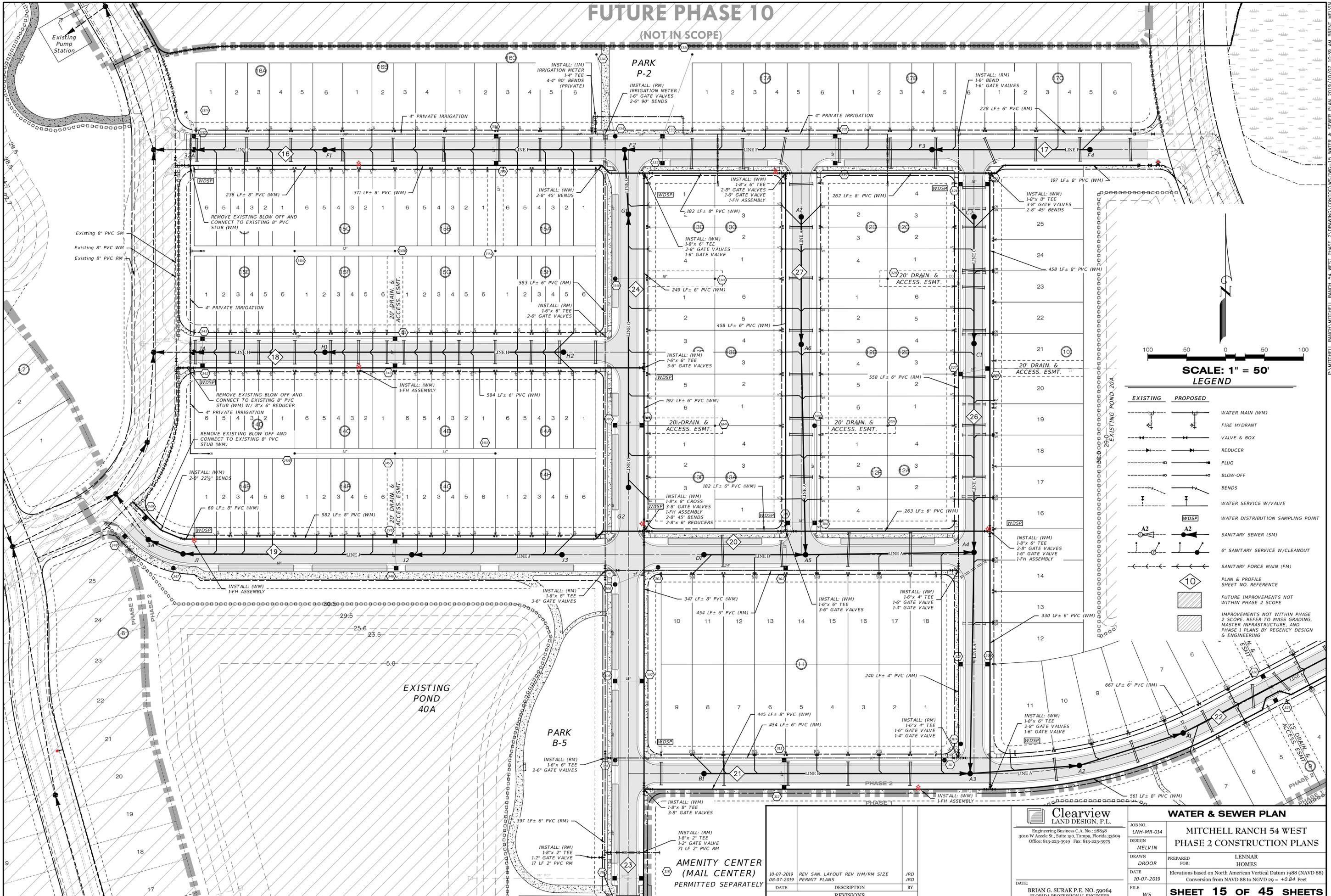
LEGEND

EXISTING	PROPOSED	DESCRIPTION
		WATER MAIN (WM)
		FIRE HYDRANT
		VALVE & BOX
		REDUCER
		PLUG
		BLOW-OFF
		BENDS
		WATER SERVICE W/VALVE
		WATER DISTRIBUTION SAMPLING POINT
		SANITARY SEWER (SM)
		6" SANITARY SERVICE W/CLEANOUT
		SANITARY FORCE MAIN (FM)
		PLAN & PROFILE SHEET NO. REFERENCE
		FUTURE IMPROVEMENTS NOT WITHIN PHASE 2 SCOPE
		IMPROVEMENTS NOT WITHIN PHASE 2 SCOPE. REFER TO MASS GRADING, MASTER INFRASTRUCTURE, AND PHASE 1 PLANS BY REGENCY DESIGN & ENGINEERING

Clearview LAND DESIGN, P.L. Engineering Business C.A. No. 28858 3010 W Azele St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975		WATER & SEWER PLAN MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS	
JOB NO. LNH-MR-014	DESIGN MELVIN	PREPARED FOR LENNAR HOMES	DATE 10-07-2019
DRAWN DROOR	DATE 10-07-2019	FILE W5	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet
10-07-2019 REV SAN. LAYOUT REV WM/RM SIZE JRD 08-07-2019 PERMIT PLANS JRD		SHEET 14 OF 45 SHEETS	
DATE	DESCRIPTION	BY	REVISIONS

P:\MITCHELL RANCH\MITCHELL RANCH 54 WEST PHASE 2\DRAWINGS\CONDOCS\WSDWG-14 WATER & SEWER PLAN 2019/10/07 10:39 AM BRETT MELVIN

FUTURE PHASE 10 (NOT IN SCOPE)



EXISTING	PROPOSED	DESCRIPTION
		WATER MAIN (WM)
		FIRE HYDRANT
		VALVE & BOX
		REDUCER
		PLUG
		BLOW-OFF
		BENDS
		WATER SERVICE W/VALVE
		WATER DISTRIBUTION SAMPLING POINT
		SANITARY SEWER (SM)
		6" SANITARY SERVICE W/CLEANOUT
		SANITARY FORCE MAIN (FM)
		PLAN & PROFILE SHEET NO. REFERENCE
		FUTURE IMPROVEMENTS NOT WITHIN PHASE 2 SCOPE
		IMPROVEMENTS NOT WITHIN PHASE 2 SCOPE. REFER TO MASS GRADING, MASTER INFRASTRUCTURE, AND PHASE 1 PLANS BY REGENCY DESIGN & ENGINEERING

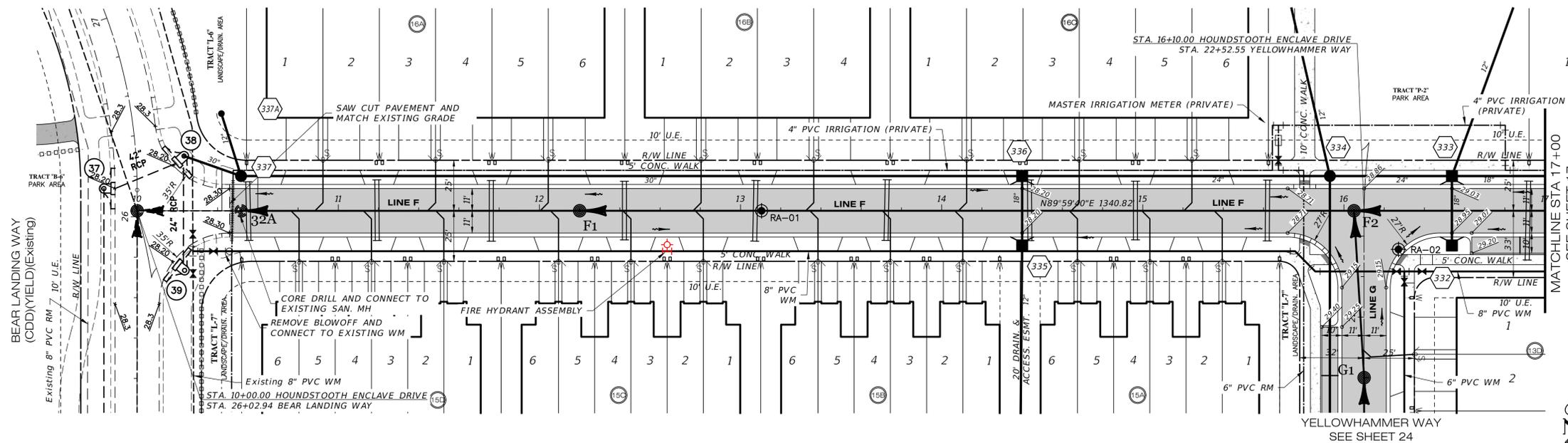
AMENITY CENTER (MAIL CENTER)
PERMITTED SEPARATELY

DATE	DESCRIPTION	BY
10-07-2019	REV SAN. LAYOUT REV WM/RM SIZE	JRD
08-07-2019	PERMIT PLANS	JRD

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Engineering Business C.A. No.: 28858
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Office: 813-223-3919 Fax: 813-223-3975

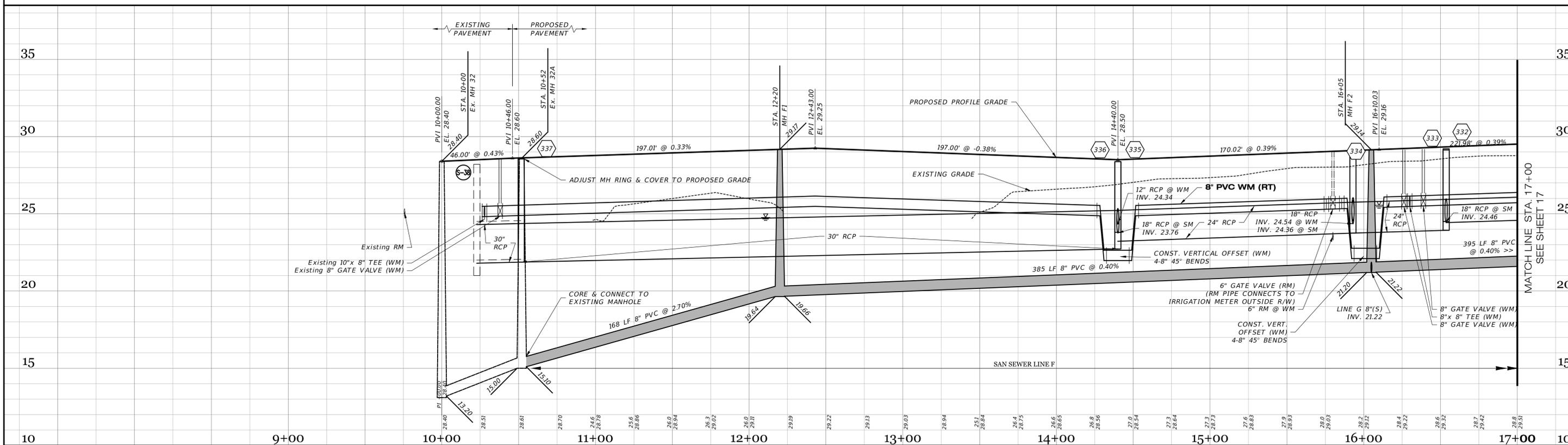
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LNH-MR-014		MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS	
DESIGN	MELVIN	PREPARED FOR:	LENNAR HOMES
DRAWN	DROOR	DATE	10-07-2019
FILE	W5	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet	
		SHEET 15 OF 45 SHEETS	

P:\MITCHELL RANCH\MITCHELL RANCH 54 WEST PHASE 2\DRAWINGS\CONDOCS\WSDWG-15 WATER & SEWER PLAN 2019/10/07 10:39 AM BRETT MELVIN



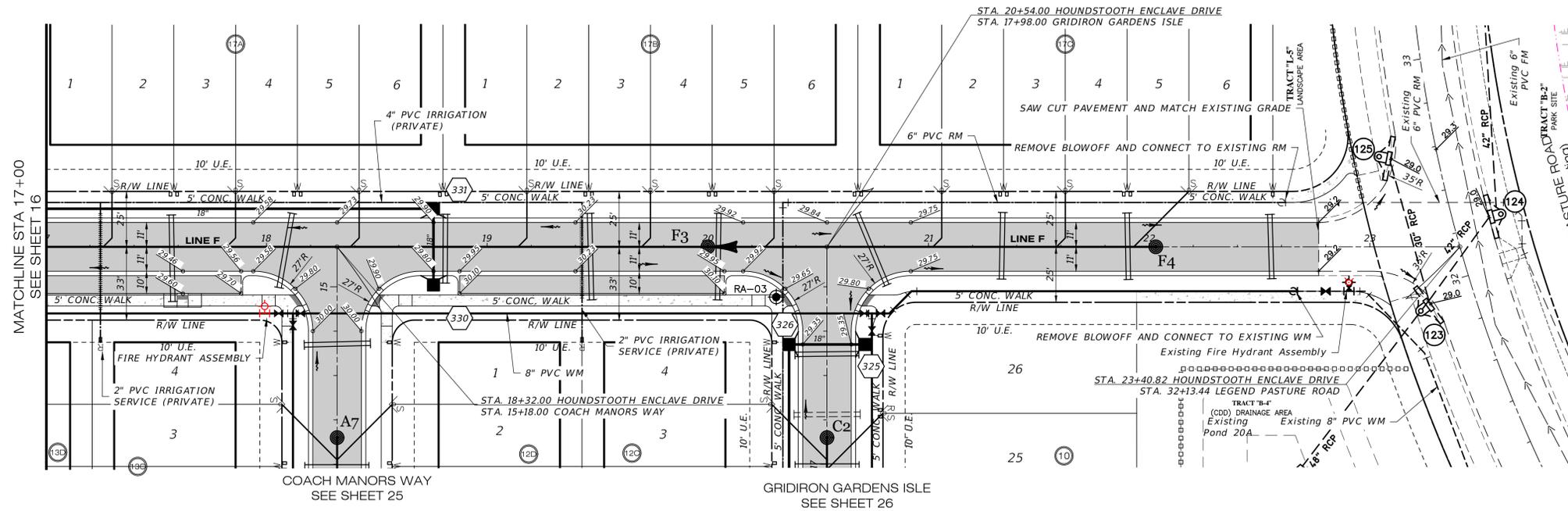
HOUNDSTOOTH ENCLAVE DRIVE

SCALE: 1" = 30' HORIZONTAL
1" = 3' VERTICAL



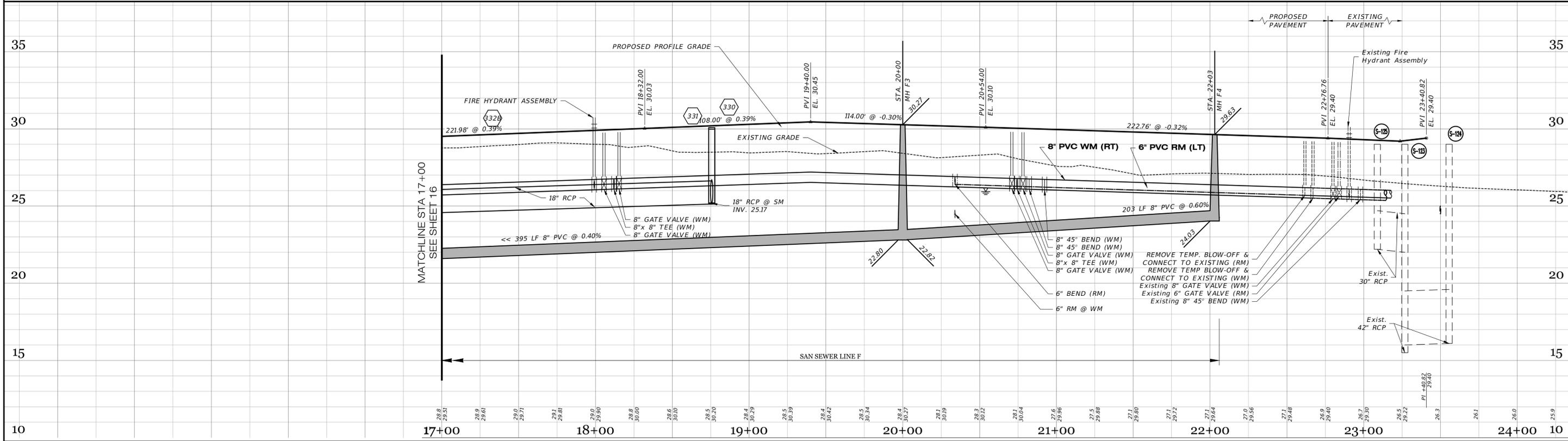
THE EXISTING TOPOGRAPHY SHOWN IN THESE PLANS REPRESENTS THE ORIGINAL TOPOGRAPHY OF THE PROJECT SITE AS PER THE SURVEY DATA PROVIDED BY REGENCY DESIGN, PRIOR TO THE MASS GRADING OPERATION. THE CONTRACTOR/OWNER SHALL PROVIDE UPDATED TOPOGRAPHY OF THE PROJECT SITE FOR CONSTRUCTION BID PURPOSES

Clearview LAND DESIGN, P.L. Engineering Business C.A. No.: 28858 3010 W Azele St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975		ROADWAY & UTILITY PLAN & PROFILE JOB NO: LNH-MR-014 MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS DESIGN: MELVIN DRAWN: DROOR DATE: 10-07-2019 FILE: RP01	
10-07-2019 ADD BORINGS, REVISE STORM MHS PERMIT PLANS JRD 08-07-2019 JRD		PREPARED FOR: LENNAR HOMES ELEVATIONS based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet	
DATE: 10-07-2019 DESCRIPTION: REVISIONS BY:		SHEET 16 OF 45 SHEETS	



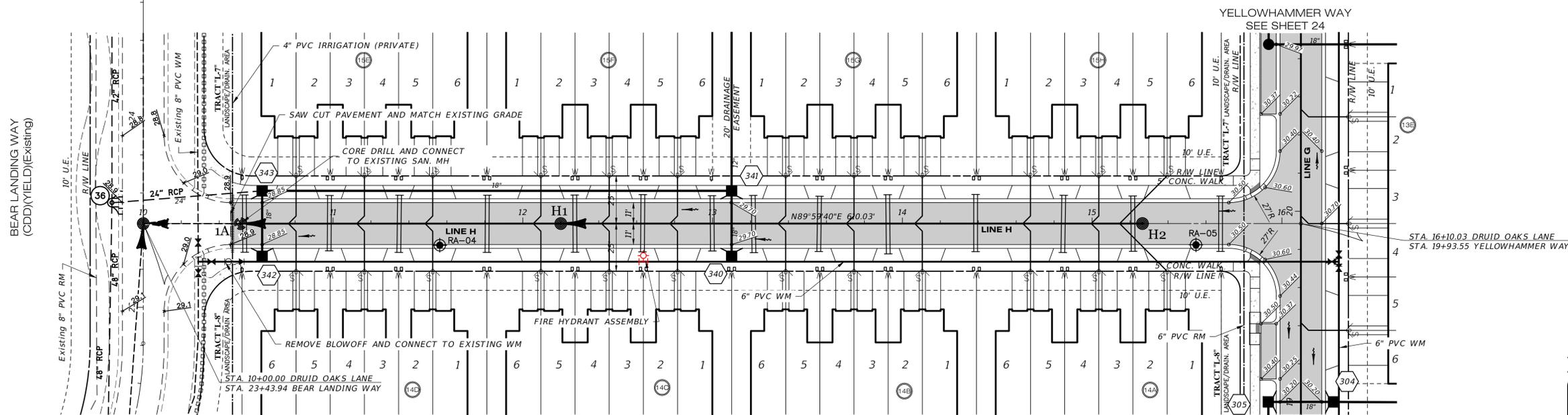
HOUNDSTOOTH ENCLAVE DRIVE

SCALE: 1" = 30' HORIZONTAL
1" = 3' VERTICAL



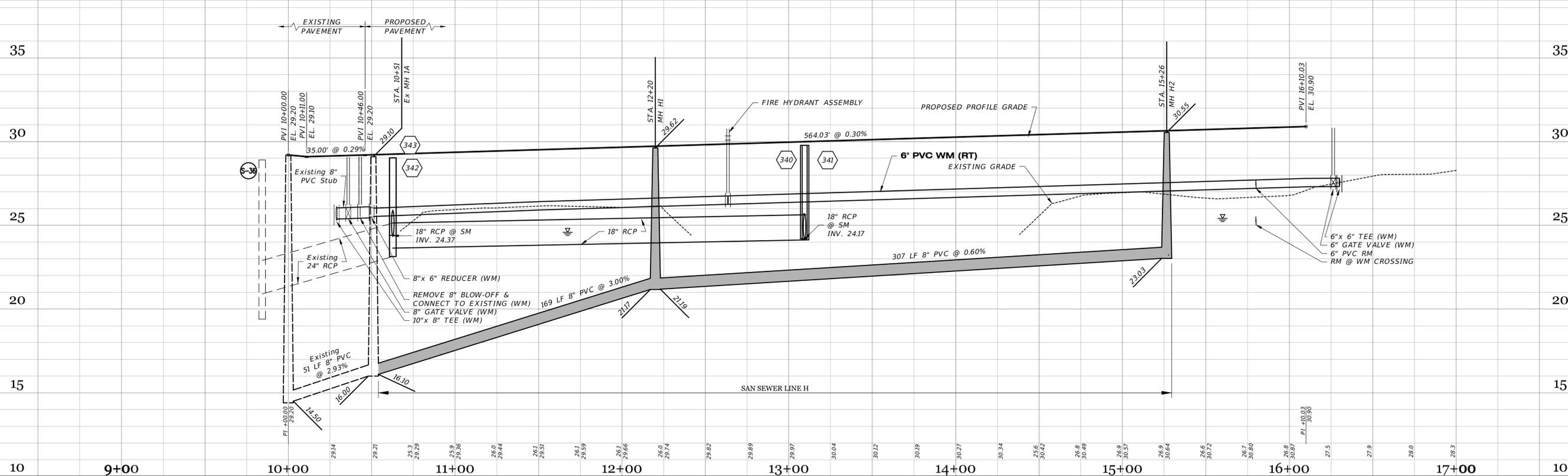
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Clearview LAND DESIGN, P.L. Engineering Business C.A. No.: 28858 3010 W Azele St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975		ROADWAY & UTILITY PLAN & PROFILE JOB NO: LNH-MR-014 DESIGN: MELVIN DRAWN: DROOR DATE: 10-07-2019 FILE: RP02		MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS PREPARED FOR: LENNAR HOMES Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet	
10-07-2019 ADD TRACT LABELS & BORINGS, REV SAN LAYOUT JRD 08-07-2019 PERMIT PLANS JRD		DATE DESCRIPTION BY REVISIONS		BRIAN G. SURAK P.E. NO. 59064 FLORIDA PROFESSIONAL ENGINEER	
SHEET 17 OF 45 SHEETS					



DRUID OAKS LANE

SCALE: 1" = 30' HORIZONTAL
1" = 3' VERTICAL

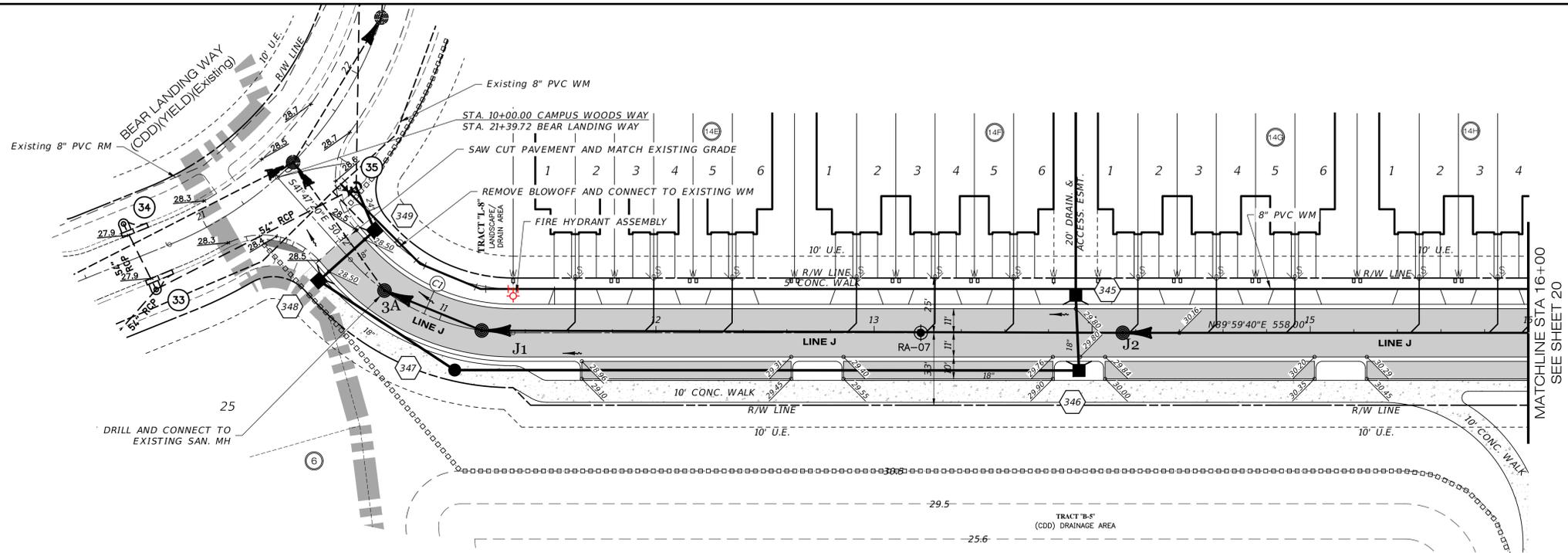


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10-07-2019 ADD TRACT LABELS & BORINGS, REV SAN LAYOUT 08-07-2019 PERMIT PLANS		JRD JRD
DATE	DESCRIPTION	BY
	REVISIONS	

Clearview LAND DESIGN, P.L. Engineering Business C.A. No.: 28858 3010 W Azele St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975		ROADWAY & UTILITY PLAN & PROFILE	
JOB NO.	LNH-MR-014	MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS	
DESIGN	MELVIN	PREPARED FOR:	LENNAR HOMES
DRAWN	DROOR	DATE	10-07-2019
DATE	10-07-2019	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet	
FILE	RP03	SHEET 18 OF 45 SHEETS	

P:\MITCHELL RANCH\MITCHELL RANCH 54 WEST PHASE 2\DRAWING\CONDO\RP03.DWG-18 ROADWAY UTILITY PLAN & PROFILE 2019/10/07 10:41 AM BRETT MELVIN

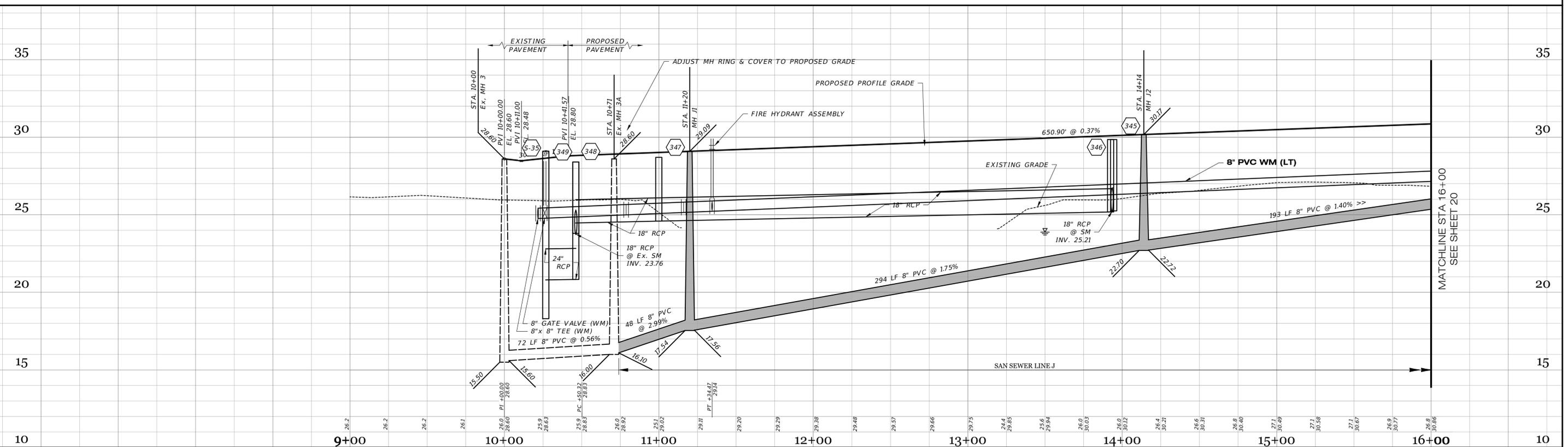


Curve Table: Alignments

Curve #	Radius	Length	Chord	Delta	Tan	Deg (Arc)	PC Sta.	PT Sta.	PI Sta.
C1	100.00'	84.15'	565' 53" 49.75'E, 81.69'	048.2167	44.75'	057°18'	9+00.00	22+36.47	10+95.06

CAMPUS WOODS WAY

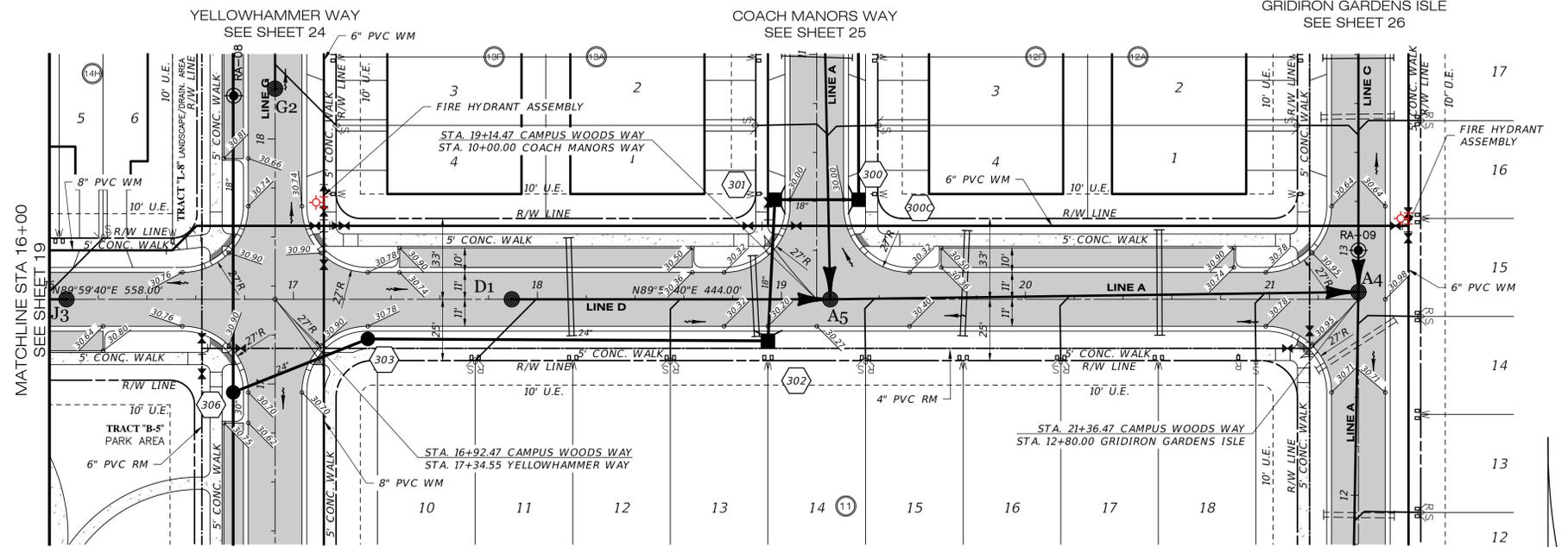
SCALE: 1" = 30' HORIZONTAL
1" = 3' VERTICAL



THE EXISTING TOPOGRAPHY SHOWN IN THESE PLANS REPRESENTS THE ORIGINAL TOPOGRAPHY OF THE PROJECT SITE AS PER THE SURVEY DATA PROVIDED BY REGENCY DESIGN, PRIOR TO THE MASS GRADING OPERATION. THE CONTRACTOR/OWNER SHALL PROVIDE UPDATED TOPOGRAPHY OF THE PROJECT SITE FOR CONSTRUCTION BID PURPOSES

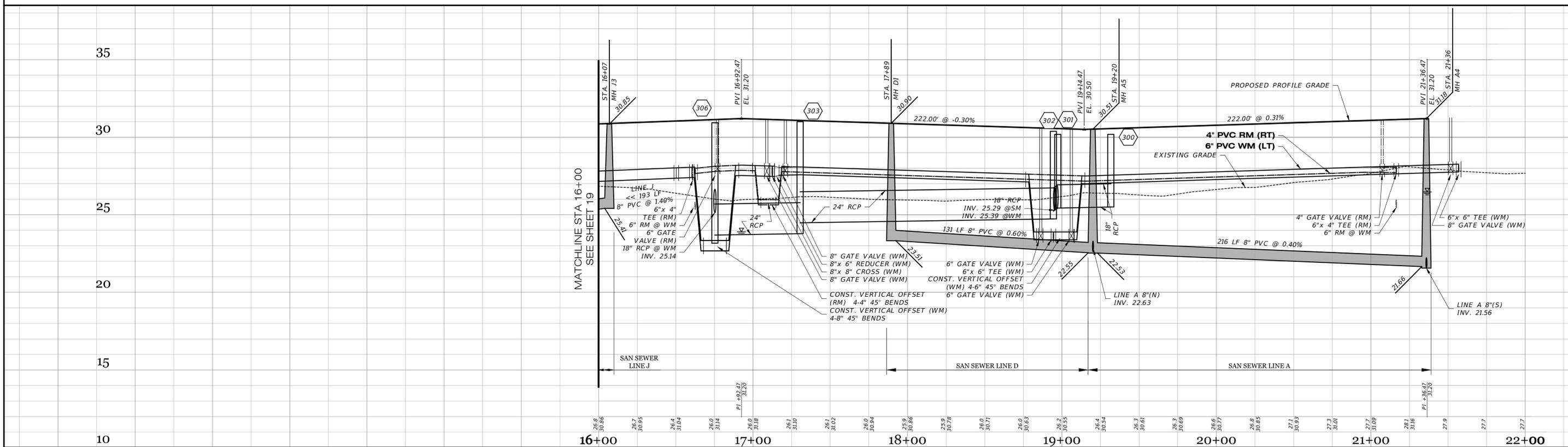
<p>10-07-2019 ADD TRACT LABELS JRD</p> <p>08-07-2019 PERMIT PLANS JRD</p>		<p>Clearview LAND DESIGN, P.L. Engineering Business C.A. No.: 28858 3010 W Azele St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975</p>	<p>ROADWAY & UTILITY PLAN & PROFILE</p>	
<p>DATE DESCRIPTION BY</p> <p>REVISIONS</p>			<p>JOB NO. LNH-MR-014</p> <p>DESIGN MELVIN</p> <p>DRAWN DROOR</p> <p>DATE 10-07-2019</p> <p>FILE RP04</p>	<p>MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS</p> <p>PREPARED FOR: LENNAR HOMES</p> <p>Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet</p> <p>SHEET 19 OF 45 SHEETS</p>

P:\MITCHELL RANCH\MITCHELL RANCH 54 WEST PHASE 2\DRAWINGS\CONDO\RP04.DWG-19 ROADWAY UTILITY PLAN & PROFILE 2019/10/07 10:41 AM BRETT MELVIN



CAMPUS WOODS WAY

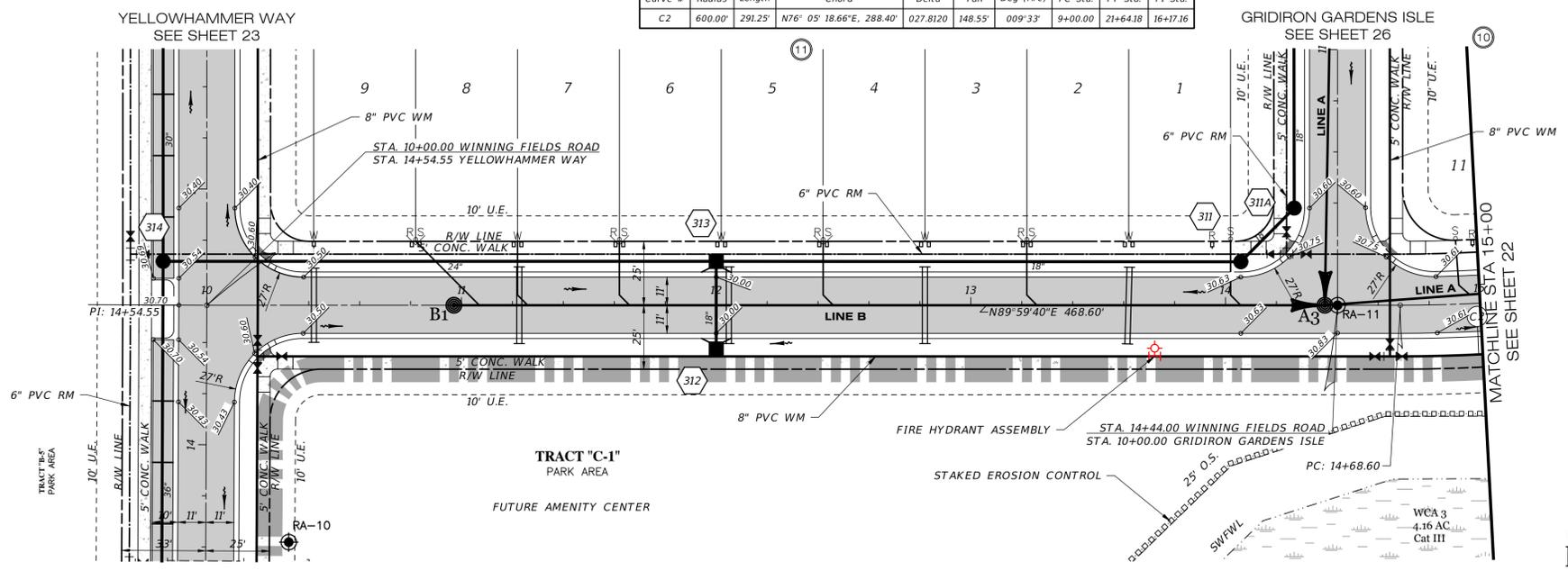
SCALE: 1" = 30' HORIZONTAL
1" = 3' VERTICAL



THE EXISTING TOPOGRAPHY SHOWN IN THESE PLANS REPRESENTS THE ORIGINAL TOPOGRAPHY OF THE PROJECT SITE AS PER THE SURVEY DATA PROVIDED BY REGENCY DESIGN, PRIOR TO THE MASS GRADING OPERATION. THE CONTRACTOR/OWNER SHALL PROVIDE UPDATED TOPOGRAPHY OF THE PROJECT SITE FOR CONSTRUCTION BID PURPOSES

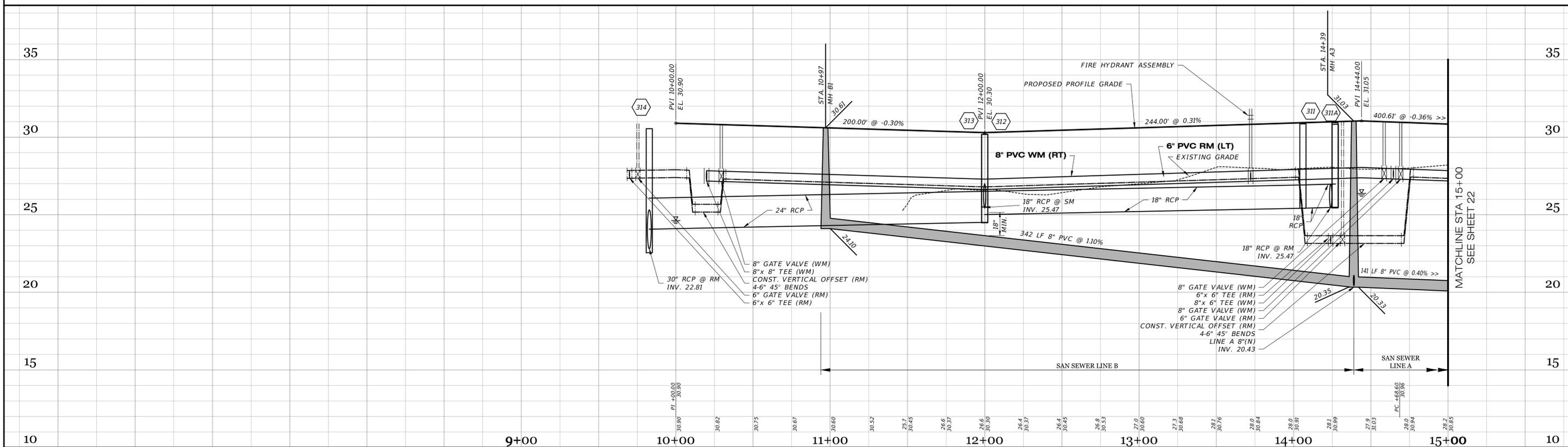
<p>10-07-2019 ADD BORINGS & TRACT LABELS REV SAN LAYOUT JRD</p> <p>08-07-2019 PERMIT PLANS JRD</p>		<p>DATE DESCRIPTION BY</p>	<p>10-07-2019</p>	<p>10-07-2019</p>	<p>RP05</p>
<p>DATE DESCRIPTION BY</p>					
<p>Clearview LAND DESIGN, P.L.L.C.</p> <p>Engineering Business C.A. No.: 28858 3010 W Azele St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975</p>			<p>ROADWAY & UTILITY PLAN & PROFILE</p> <p>JOB NO: LNH-MR-014 DESIGN: MELVIN DRAWN: DROOR DATE: 10-07-2019 FILE: RP05</p>		
<p>MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS</p> <p>PREPARED FOR: LENNAR HOMES</p> <p>Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet</p>			<p>SHEET 20 OF 45 SHEETS</p>		

Curve Table: Alignments										
Curve #	Radius	Length	Chord	Delta	Tan	Deg (Arc)	PC Sta.	PT Sta.	PI Sta.	
C2	600.00'	291.25'	N76° 05' 18.66"E, 288.40'	027.8120	148.55'	009° 33'	9+00.00	21+64.18	16+17.16	



WINNING FIELDS ROAD

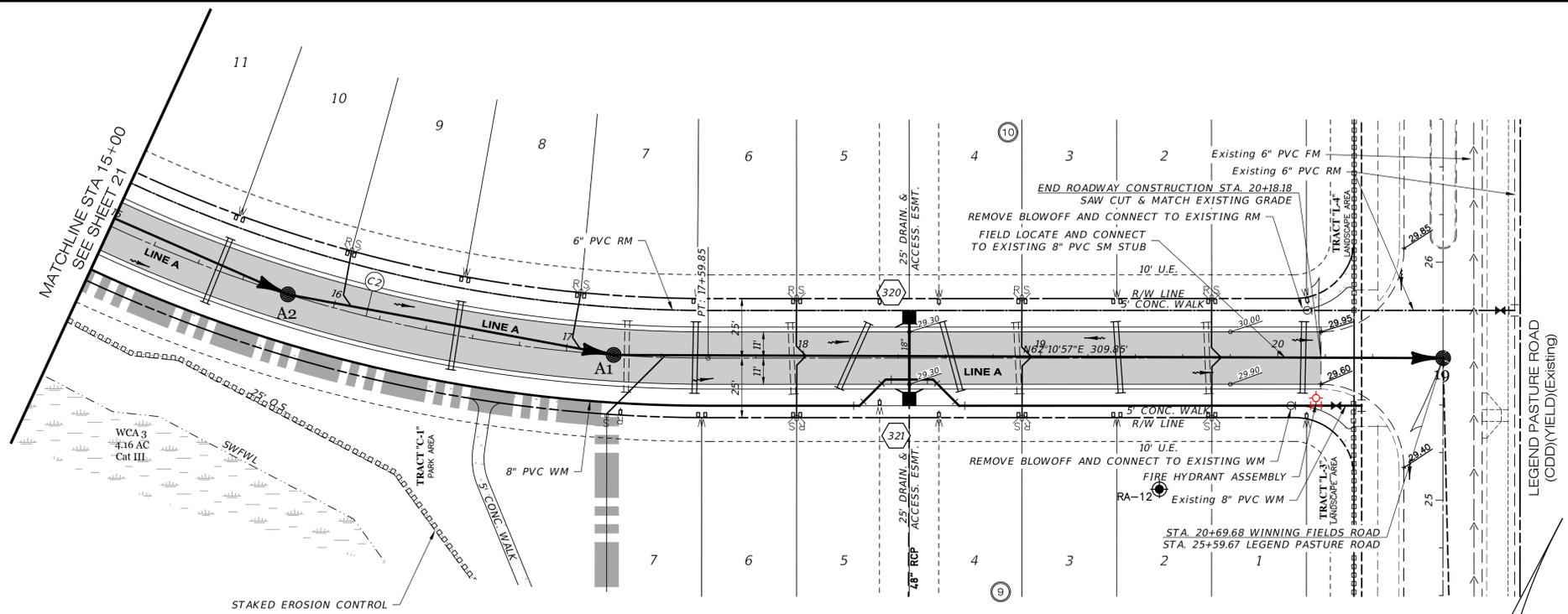
SCALE: 1" = 30' HORIZONTAL
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Clearview LAND DESIGN, P.L. Engineering Business C.A. No.: 28858 3010 W Azele St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975		ROADWAY & UTILITY PLAN & PROFILE JOB NO: LNH-MR-014 DESIGN: MELVIN DRAWN: DROOR DATE: 10-07-2019 FILE: RP06		MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS PREPARED FOR: LENNAR HOMES ELEVATIONS based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet	
10-07-2019 ADD BORINGS, REV SAN LAYOUT JRD 08-07-2019 PERMIT PLANS JRD		DATE DESCRIPTION BY REVISIONS		DATE: BRIAN G. SURAK P.E. NO. 59064 FLORIDA PROFESSIONAL ENGINEER	

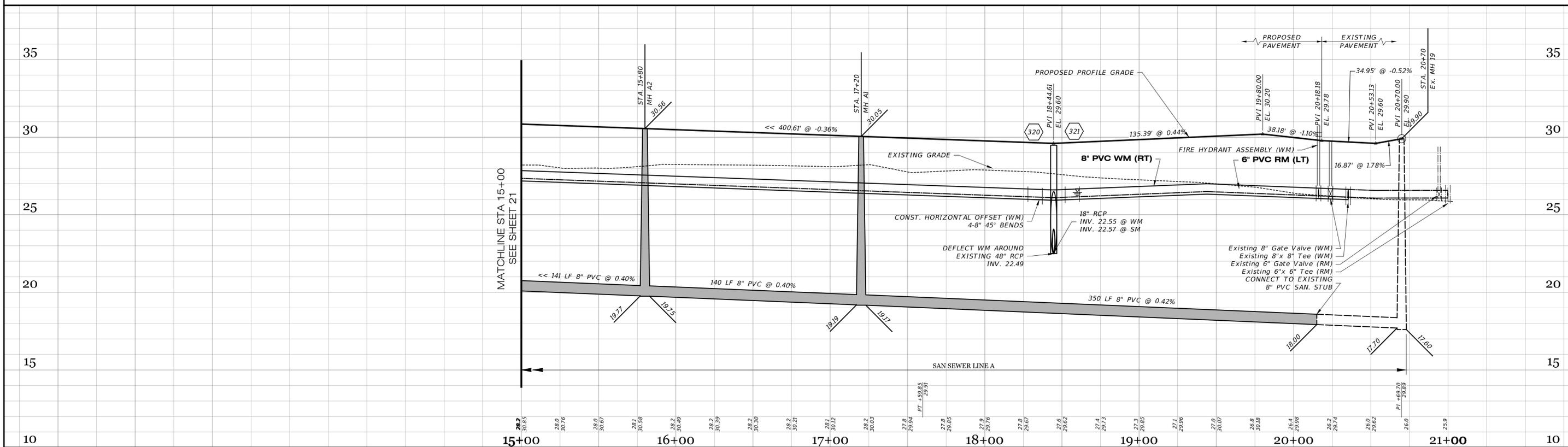
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Curve Table: Alignments										
Curve #	Radius	Length	Chord	Delta	Tan	Deg (Arc)	PC Sta.	PT Sta.	PI Sta.	
C2	600.00'	291.25'	N76° 05' 18.66"E, 288.40'	027.8120	148.55'	009° 33'	9+00.00	21+64.18	16+17.16	

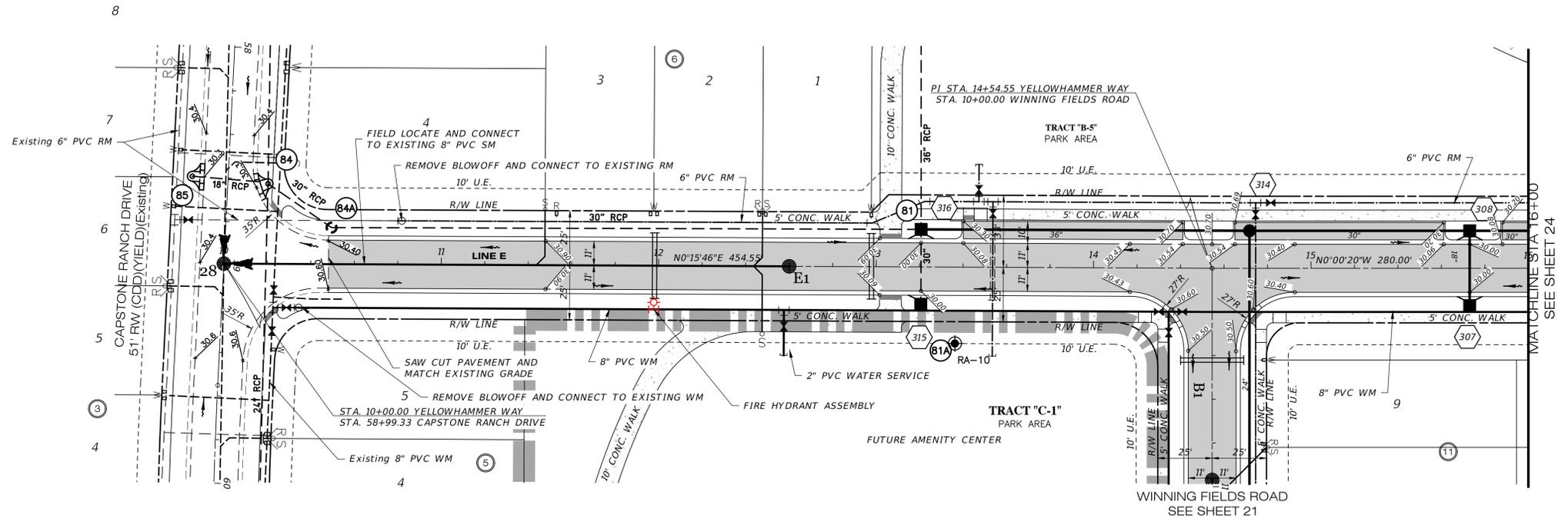
WINNING FIELDS ROAD

SCALE: 1" = 30' HORIZONTAL
1" = 3' VERTICAL



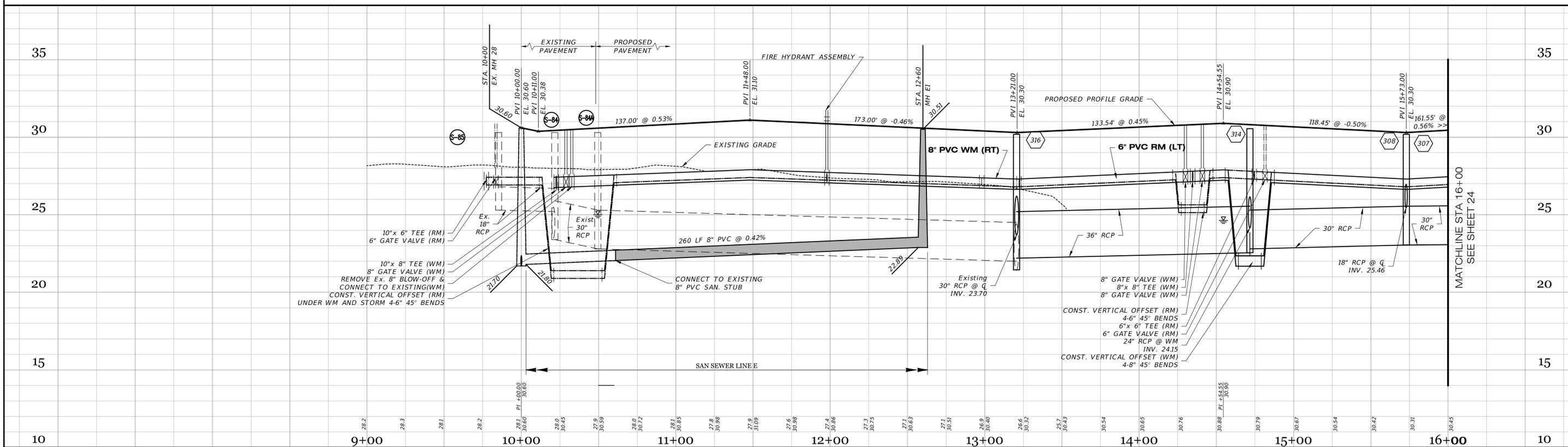
THE EXISTING TOPOGRAPHY SHOWN IN THESE PLANS REPRESENTS THE ORIGINAL TOPOGRAPHY OF THE PROJECT SITE AS PER THE SURVEY DATA PROVIDED BY REGENCY DESIGN, PRIOR TO THE MASS GRADING OPERATION. THE CONTRACTOR/OWNER SHALL PROVIDE UPDATED TOPOGRAPHY OF THE PROJECT SITE FOR CONSTRUCTION BID PURPOSES

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10-07-2019 ADD BORING & TRACT LABELS JRD 08-07-2019 PERMIT PLANS JRD	DATE DESCRIPTION BY REVISIONS	DATE: BRIAN G. SURAK P.E. NO. 59064 FLORIDA PROFESSIONAL ENGINEER	SHEET 22 OF 45 SHEETS



YELLOWHAMMER WAY

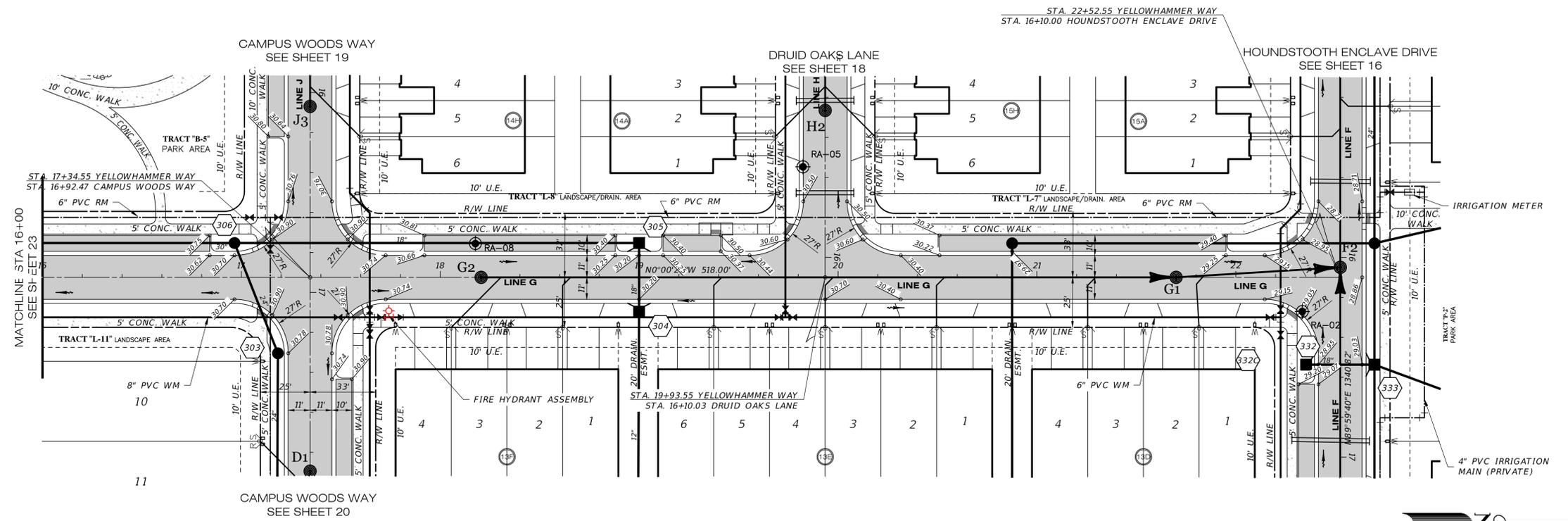
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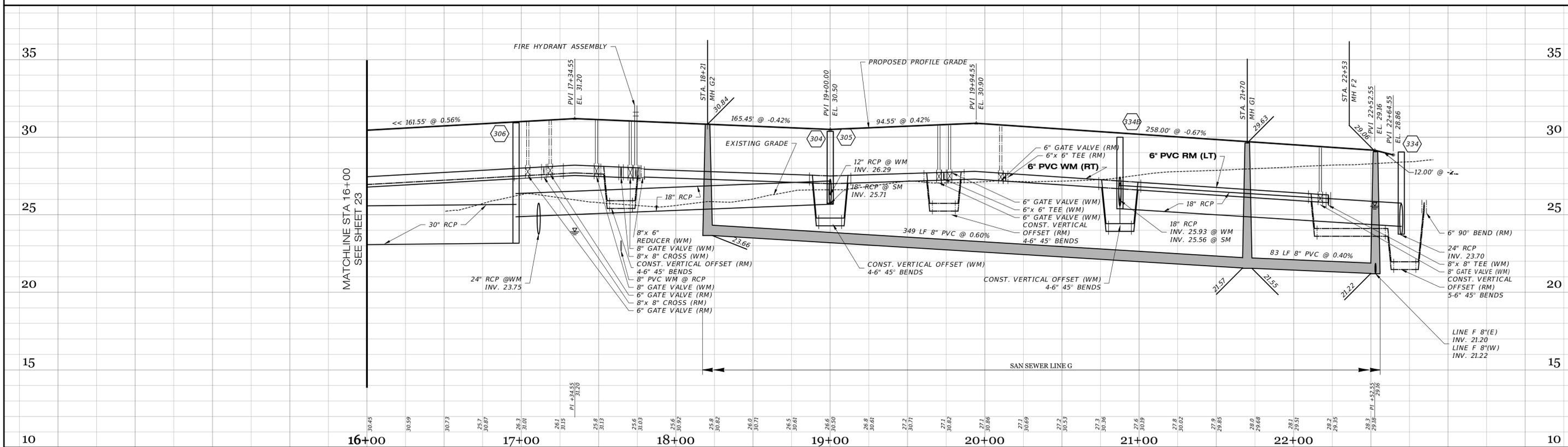
10-07-2019 ADD BORINGS & TRACT LABELS JRD 08-07-2019 PERMIT PLANS JRD		Clearview LAND DESIGN, P.L. Engineering Business C.A. No.: 28858 3010 W Azele St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975	ROADWAY & UTILITY PLAN & PROFILE JOB NO: LNH-MR-014 DESIGN: MELVIN DRAWN: DROOR DATE: 10-07-2019 FILE: RP08	
DATE DESCRIPTION BY REVISIONS			MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS PREPARED FOR: LENNAR HOMES ELEVATIONS based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet SHEET 23 OF 45 SHEETS	

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YELLOWHAMMER WAY

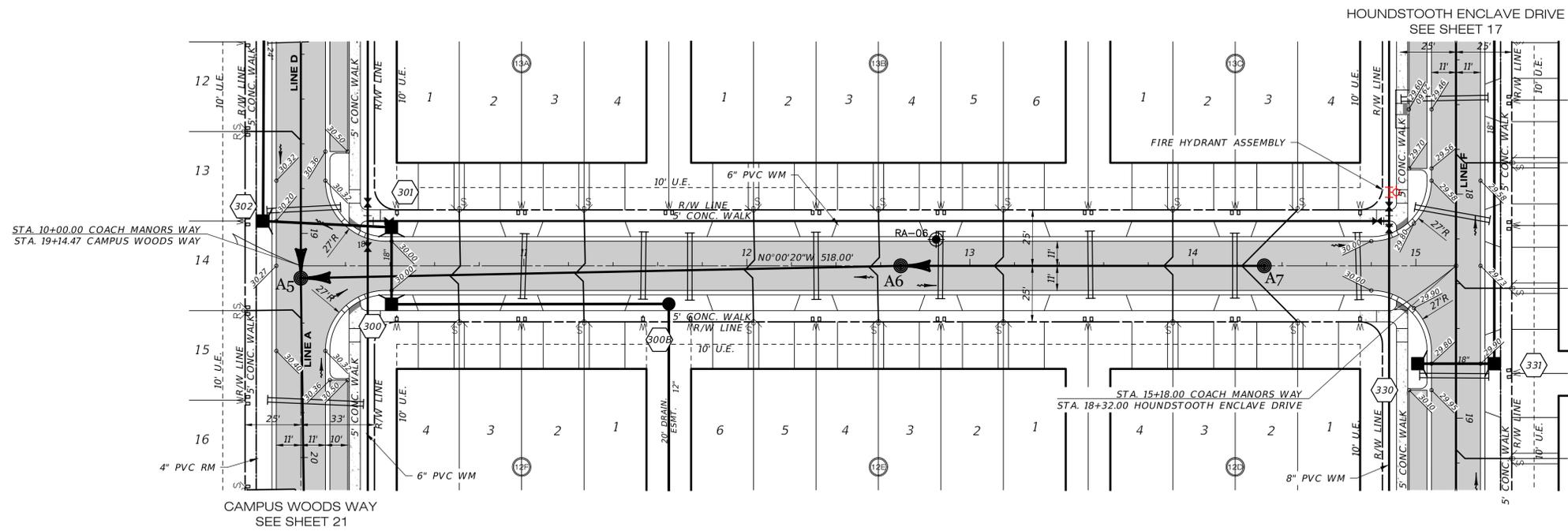
SCALE: 1" = 30' HORIZONTAL
1" = 3' VERTICAL



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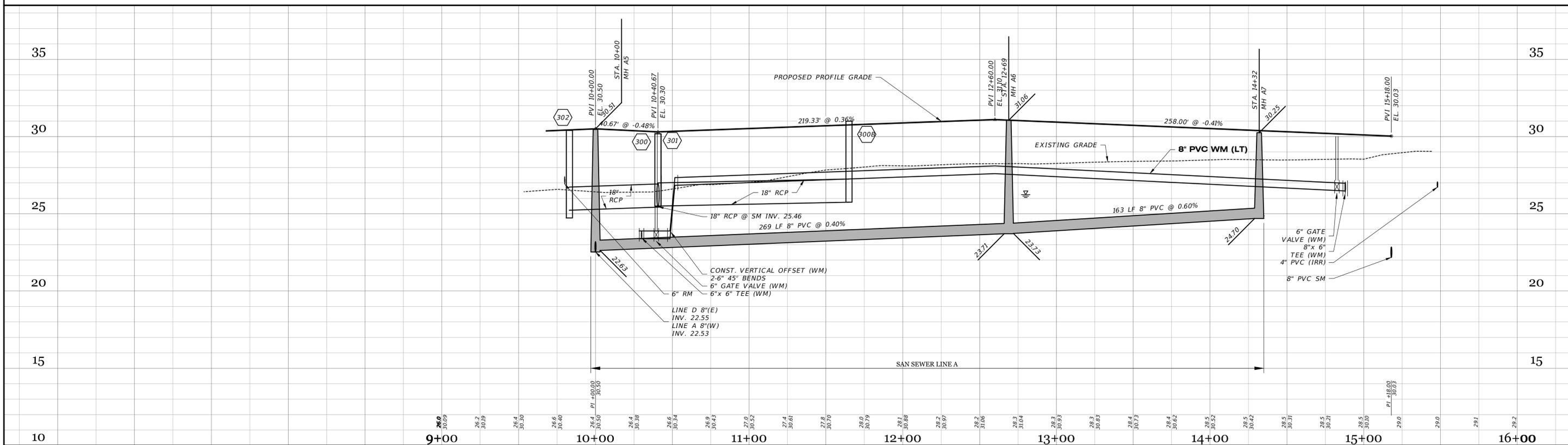
<p>10-07-2019 ADD BORINGS & TRACT LABELS REV SAN. LAYOUT JRD 08-07-2019 PERMIT PLANS JRD</p>		<p>DATE DESCRIPTION BY</p>	<p>10-07-2019</p>	<p>DESCRIPTION</p>	<p>BY</p>
<p>DATE DESCRIPTION BY</p>					
<p>Clearview LAND DESIGN, P.L. Engineering Business C.A. No.: 28858 3010 W Azele St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975</p>			<p>ROADWAY & UTILITY PLAN & PROFILE</p>		
<p>JOB NO. LNH-MR-014 DESIGN MELVIN DRAWN DROOR DATE 10-07-2019 FILE RP09</p>			<p>MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS</p> <p>PREPARED FOR: LENNAR HOMES</p> <p>Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet</p>		
<p>BRIAN G. SURAK P.E. NO. 59064 FLORIDA PROFESSIONAL ENGINEER</p>			<p>SHEET 24 OF 45 SHEETS</p>		

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COACH MANORS WAY

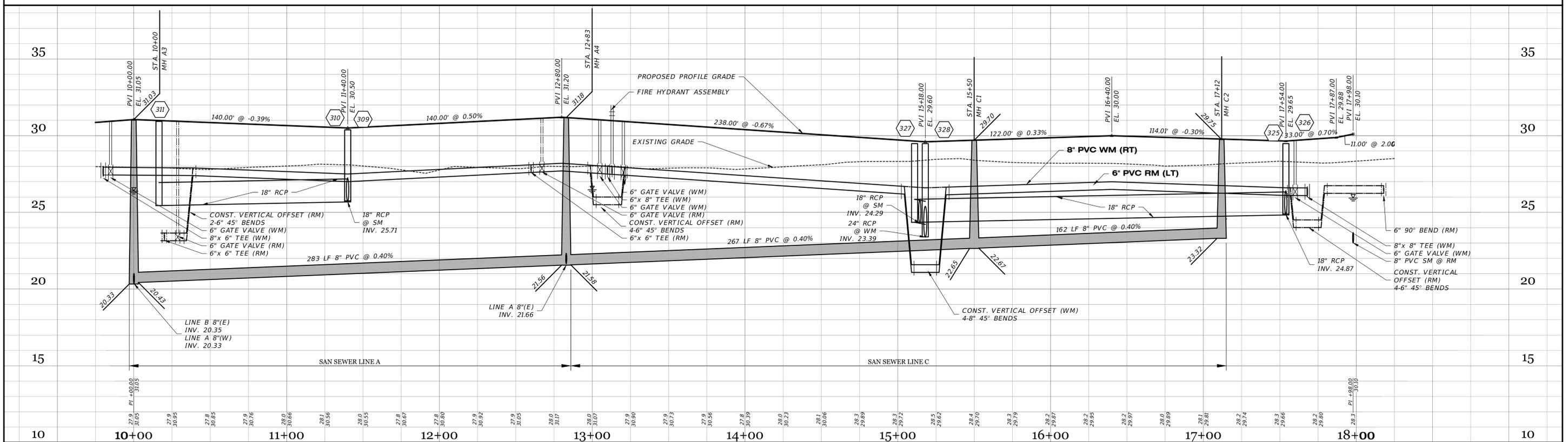
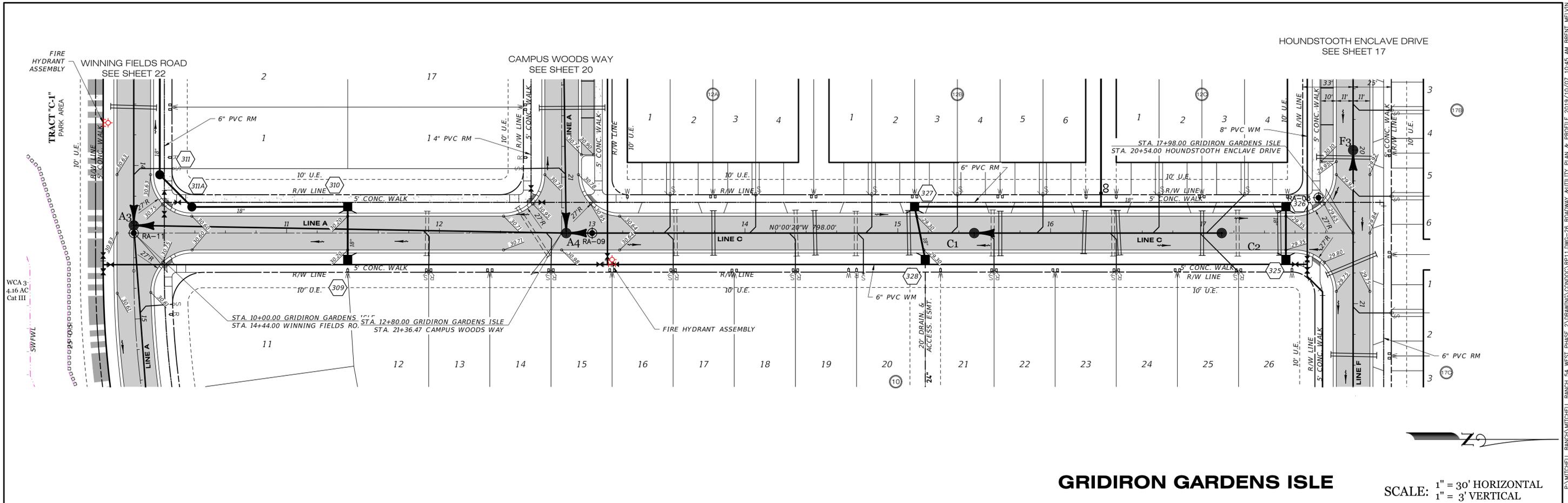
SCALE: 1" = 30' HORIZONTAL
1" = 3' VERTICAL



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10-07-2019 ADD BORINGS REV SAN. LAYOUT JRD 08-07-2019 PERMIT PLANS JRD		Clearview LAND DESIGN, P.L. Engineering Business C.A. No.: 28858 3010 W Azele St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975	ROADWAY & UTILITY PLAN & PROFILE JOB NO. LNH-MR-014 MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS	
DATE DESCRIPTION BY REVISIONS			DRAWN MELVIN DROOR DATE 10-07-2019 FILE RP10	PREPARED FOR: LENNAR HOMES ELEVATIONS based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet

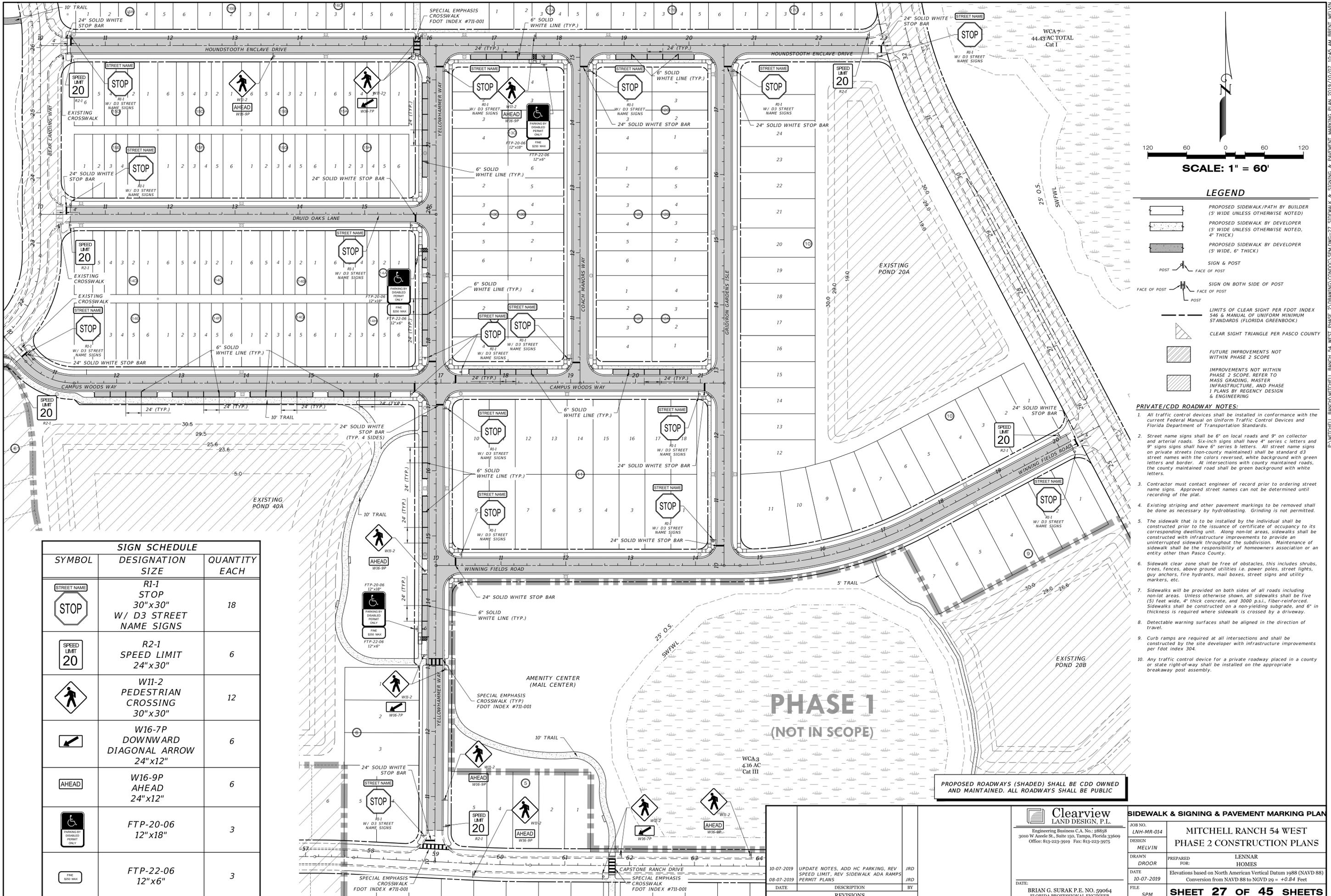
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THE EXISTING TOPOGRAPHY SHOWN IN THESE PLANS REPRESENTS THE ORIGINAL TOPOGRAPHY OF THE PROJECT SITE AS PER THE SURVEY DATA PROVIDED BY REGENCY DESIGN, PRIOR TO THE MASS GRADING OPERATION. THE CONTRACTOR/OWNER SHALL PROVIDE UPDATED TOPOGRAPHY OF THE PROJECT SITE FOR CONSTRUCTION BID PURPOSES

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10-07-2019 ADD BORINGS REV SAN. LAYOUT JRD 08-07-2019 PERMIT PLANS JRD		PREPARED FOR: LENNAR HOMES DESCRIPTION: Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet	
DATE: 10-07-2019 BY: BRIAN G. SURAK P.E. NO. 59064 FLORIDA PROFESSIONAL ENGINEER		SHEET 26 OF 45 SHEETS	

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- LEGEND**
- PROPOSED SIDEWALK/PATH BY BUILDER (5' WIDE UNLESS OTHERWISE NOTED)
 - PROPOSED SIDEWALK BY DEVELOPER (5' WIDE UNLESS OTHERWISE NOTED, 4" THICK)
 - PROPOSED SIDEWALK BY DEVELOPER (5' WIDE, 6" THICK)
 - SIGN & POST
 - SIGN ON BOTH SIDE OF POST
 - LIMITS OF CLEAR SIGHT PER FDOT INDEX 546 & MANUAL OF UNIFORM MINIMUM STANDARDS (FLORIDA GREENBOOK)
 - CLEAR SIGHT TRIANGLE PER PASCO COUNTY
 - FUTURE IMPROVEMENTS NOT WITHIN PHASE 2 SCOPE
 - IMPROVEMENTS NOT WITHIN PHASE 2 SCOPE, REFER TO MASS GRADING, MASTER INFRASTRUCTURE, AND PHASE 1 PLANS BY REGENCY DESIGN & ENGINEERING

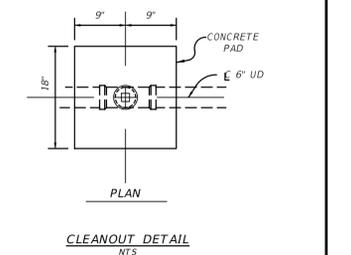
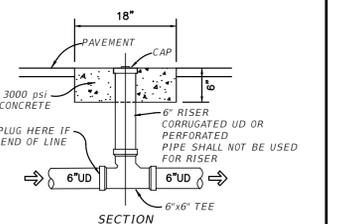
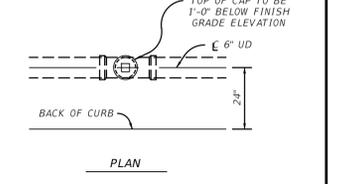
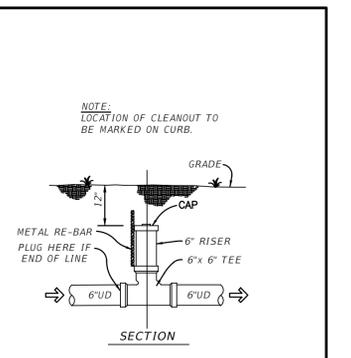
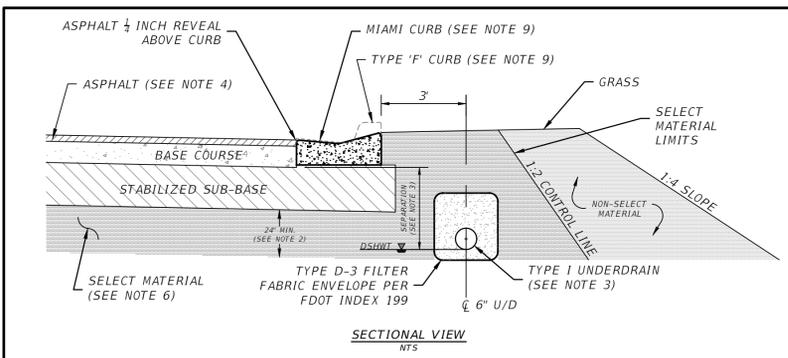
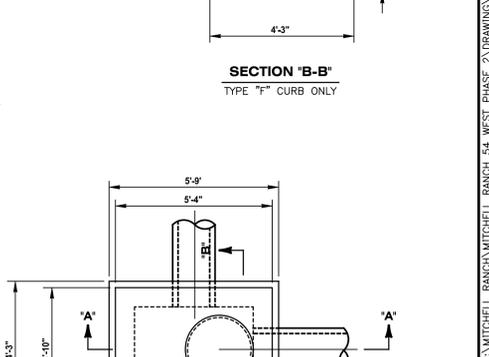
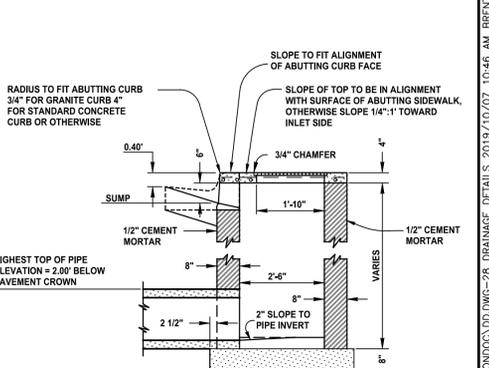
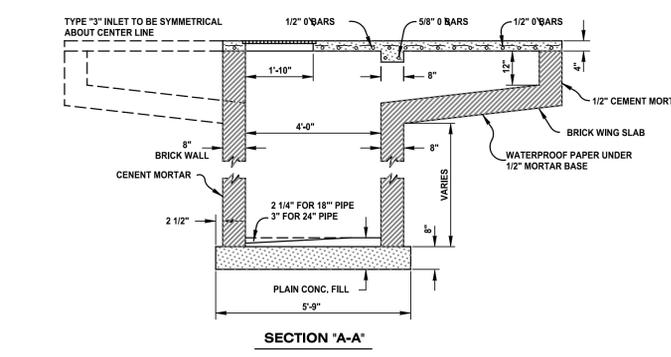
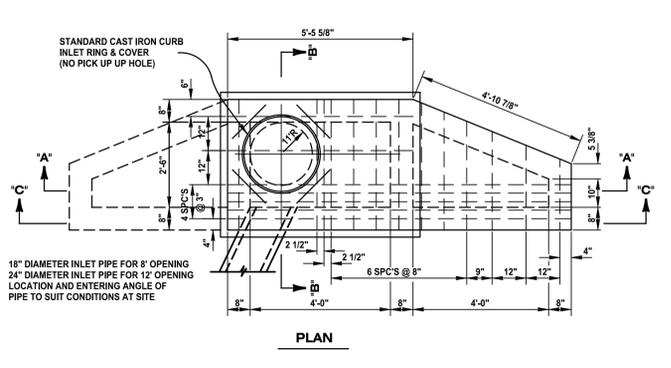
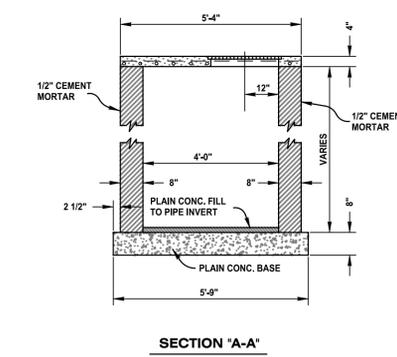
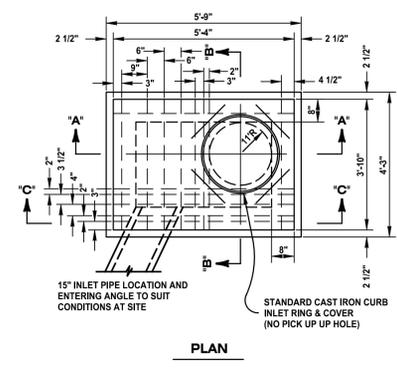
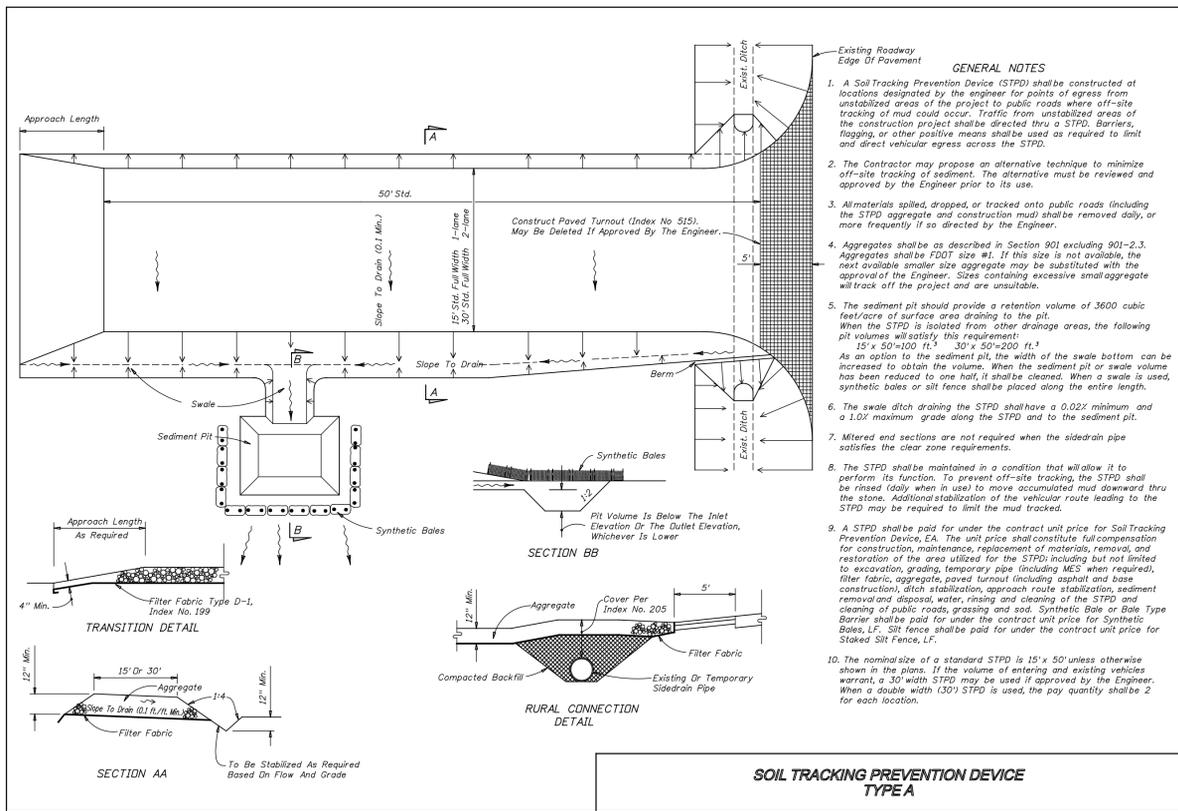
- PRIVATE/CDD ROADWAY NOTES:**
1. All traffic control devices shall be installed in conformance with the current Federal Manual on Uniform Traffic Control Devices and Florida Department of Transportation Standards.
 2. Street name signs shall be 6" on local roads and 9" on collector and arterial roads. Six-inch signs shall have 4" series c letters and 9" signs shall have 6" series b letters. All street name signs on private streets (non-county maintained) shall be standard d3 street names with the colors reversed, white background with green letters and border. At intersections with county maintained roads, the county maintained road shall be green background with white letters.
 3. Contractor must contact engineer of record prior to ordering street name signs. Approved street names can not be determined until recording of the plat.
 4. Existing striping and other pavement markings to be removed shall be done as necessary by hydroblasting. Grinding is not permitted.
 5. The sidewalk that is to be installed by the individual shall be constructed prior to the issuance of certificate of occupancy to its corresponding dwelling unit. Along non-tot areas, sidewalks shall be constructed with infrastructure improvements to provide an uninterrupted sidewalk throughout the subdivision. Maintenance of sidewalk shall be the responsibility of homeowners association or an entity other than Pasco County.
 6. Sidewalk clear zone shall be free of obstacles, this includes shrubs, trees, fences, above ground utilities i.e. power poles, street lights, guy anchors, fire hydrants, mail boxes, street signs and utility markers, etc.
 7. Sidewalks will be provided on both sides of all roads including non-tot areas. Unless otherwise shown, all sidewalks shall be five (5) feet wide, 4" thick concrete, and 3000 p.s.i., fiber-reinforced. Sidewalks shall be constructed on a non-yielding subgrade, and 6" in thickness is required where sidewalk is crossed by a driveway.
 8. Detectable warning surfaces shall be aligned in the direction of travel.
 9. Curb ramps are required at all intersections and shall be constructed by the site developer with infrastructure improvements per fdot index 304.
 10. Any traffic control device for a private roadway placed in a county or state right-of-way shall be installed on the appropriate breakaway post assembly.

SIGN SCHEDULE		
SYMBOL	DESIGNATION SIZE	QUANTITY EACH
	R1-1 STOP 30"x30" W/ D3 STREET NAME SIGNS	18
	R2-1 SPEED LIMIT 24"x30"	6
	W11-2 PEDESTRIAN CROSSING 30"x30"	12
	W16-7P DOWNWARD DIAGONAL ARROW 24"x12"	6
	W16-9P AHEAD 24"x12"	6
	FTP-20-06 12"x18"	3
	FTP-22-06 12"x6"	3

PROPOSED ROADWAYS (SHADED) SHALL BE CDD OWNED AND MAINTAINED. ALL ROADWAYS SHALL BE PUBLIC

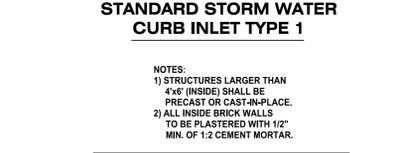
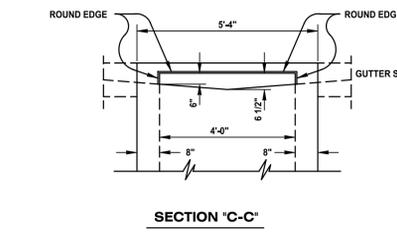
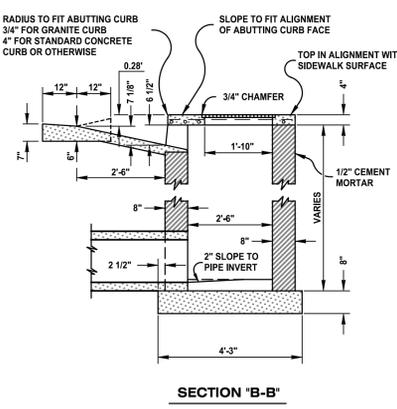
<p>Clearview LAND DESIGN, P.L. Engineering Business C.A. No.: 28858 3010 W Azele St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975</p>		<p>SIDEWALK & SIGNING & PAVEMENT MARKING PLAN</p>	
<p>10-07-2019 UPDATE NOTES, ADD HC PARKING, REV SPEED LIMIT, REV SIDEWALK ADA RAMPS</p>		<p>JOB NO. LNH-MR-014 DESIGN MELVIN DRAWN DROOR DATE 10-07-2019 FILE SPM</p>	
<p>08-07-2019 PERMIT PLANS</p>		<p>MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS</p>	
<p>DATE DESCRIPTION REVISIONS BY</p>		<p>PREPARED FOR: LENNAR HOMES Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet</p>	
<p>BRIAN G. SURAK P.E. NO. 59064 FLORIDA PROFESSIONAL ENGINEER</p>		<p>SHEET 27 OF 45 SHEETS</p>	

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- THE MINIMUM VERTICAL SEPARATION BETWEEN THE DESIGN SEASONAL HIGH WATER TABLE (DSHW) AND THE BOTTOM OF THE BASE AT THE LOWEST EDGE OF PAVEMENT SHALL BE AS FOLLOWS:
 - LIMEROCK BASE 24 INCH
 - SOIL CEMENT BASE 12 INCH
 - CRUSHED CONCRETE BASE (IF APPROVED) 12 INCH
 - ASPHALT BASE COURSE (ABC) 12 INCH
 - A MINIMUM TWO (2) FEET OF SELECT MATERIAL CONSISTING OF A-1, A-3, OR A-2-4 WITH A MAXIMUM 15% PASSING THE #200 SIEVE BELOW THE STABILIZED SUB-BASE.
 - TYPE 1 UNDERDRAIN PER FDOT INDEX 286
 - MINIMUM UNDERDRAIN SLOPE = 0.2% (FDOT INDEX 500)
 - UNDERDRAIN SHALL HAVE A TYPE D-3 FILTER FABRIC ENVELOPE PER FDOT INDEX 199
 - UNDERDRAIN PIPE SIZE = 6"
 - IF THE VERTICAL SEPARATION BETWEEN DSHWT AND BOTTOM OF BASE IS LESS THAN 2 FEET, UNDERDRAINS SHALL BE CONSTRUCTED ALONG BOTH SIDES OF THE ROAD. IF 2-3 FEET, UNDERDRAINS SHALL BE CONSTRUCTED ALONG ONE SIDE.
 - THE INVERT OF A SIX (6) INCH UNDERDRAIN SHALL BE TWO (2) FEET MINIMUM BELOW THE BOTTOM OF THE BASE.
 - TYPE 2 THRU TYPE 5 ROADWAYS SHALL CONTAIN A MINIMUM OF 1.5 INCH OF SP ASPHALTIC CONCRETE. COLLECTOR ROADWAYS SHALL HAVE A MINIMUM OF THREE (3) INCHES OF SP ASPHALTIC CONCRETE. TYPE ROADWAYS MAY BE COMPLETED IN STAGES, INITIALLY 2.25 INCHES OF SP 9.5 (S-3) COURSE INSTALLED WITH ANY THERMOPLASTIC STRIPES, PRIOR TO RELEASE OF THE ASSURANCE FOR MAINTENANCE.
 - THE ROAD DESIGN DRAWINGS SHALL CONTAIN SOIL BORING LOCATIONS WITH EXISTING SOIL DATA, OBSERVED WATER LEVEL AND DSHWT SURFACE. UNDERDRAIN OUTFALL POND DATA AND PROXIMATE WETLAND HYDRO PERIOD ELEVATIONS SHALL ALSO BE IDENTIFIED.
 - SELECT MATERIAL SHALL BE PLACED PER FOOT INDEX DRAWINGS 500 & 505.
 - THE REQUIRED MINIMUM STRUCTURAL NUMBER (SN) SHALL BE:
 - 2.34 MIN. TYPE 2 ROADWAY
 - 3.50 MIN. TYPE 1 ROADWAYS
 - 3.70 MIN. COUNTY COLLECTOR
 - 4.00 MIN. COUNTY ARTERIAL
 - SOIL CEMENT BASE SHALL NOT BE CONSTRUCTED OVER STABILIZED SUBGRADE EXCEEDING LBR 20. THE COUNTY ASSIGNED LAYER COEFFICIENT FOR A MAXIMUM 12 INCH DEPTH, LBR 20 SHALL BE 0.04 PER INCH.
 - CURB DESIGN IS SITE SPECIFIC AND SHALL BE IDENTIFIED ON PLANS.
- NOTE:**
 NO DEVIATIONS TO THIS DETAIL WILL BE PERMITTED UNLESS APPROVED BY THE COUNTY ENGINEER.
 ANY PROPOSED ALTERATIONS SHALL BE CLEARLY IDENTIFIED AND HIGHLIGHTED ON DETAIL.

ROADWAY FILTER FABRIC CRITERIA & UNDERDRAIN DETAIL

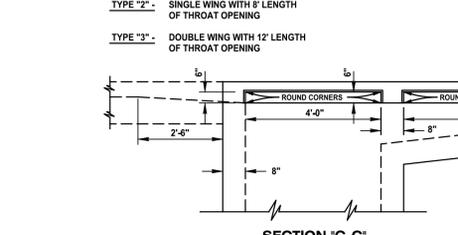
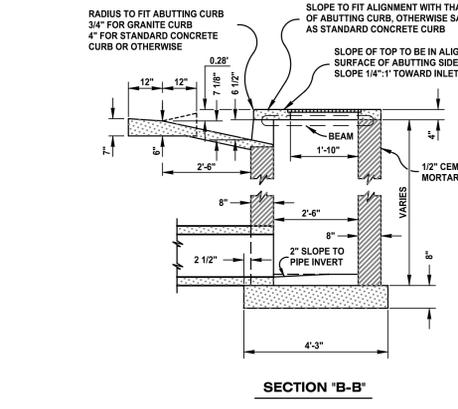


BAR SCHEDULE FOR TOP SLAB

NO.	SIZE	LOCATION	LENGTH
8	1/2" Ø	TRANSVERSE BARS - STRAIGHT	3'-0"
1	1/2" Ø	TRANSVERSE BARS - STRAIGHT	3'-4"
1	1/2" Ø	TRANSVERSE BARS - STRAIGHT	3'-0"
1	1/2" Ø	TRANSVERSE BARS - STRAIGHT	2'-9"
1	1/2" Ø	TRANSVERSE BARS - STRAIGHT	2'-5"
1	1/2" Ø	TRANSVERSE BARS - STRAIGHT	2'-0"
2	5/8" Ø	TRANSVERSE BARS - W/ HOOKED ENDS	3'-6"
5	1/2" Ø	LONGITUDINAL BARS - STRAIGHT	9'-9"
1	1/2" Ø	LONGITUDINAL BARS - STRAIGHT	6'-3"
1	1/2" Ø	LONGITUDINAL BARS - STRAIGHT	9'-9"

BAR SCHEDULE FOR TOP SLAB

NO.	SIZE	LOCATION	LENGTH
8	1/2" Ø	TRANSVERSE BARS	3'-6"
6	1/2" Ø	LONGITUDINAL BARS	5'-1"
1	1/2" Ø	LONGITUDINAL BARS	2'-9"
5	5/8" Ø	TRAFFIC BEARING ONLY	2'-4"

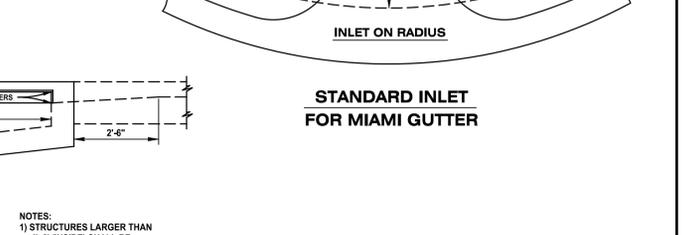
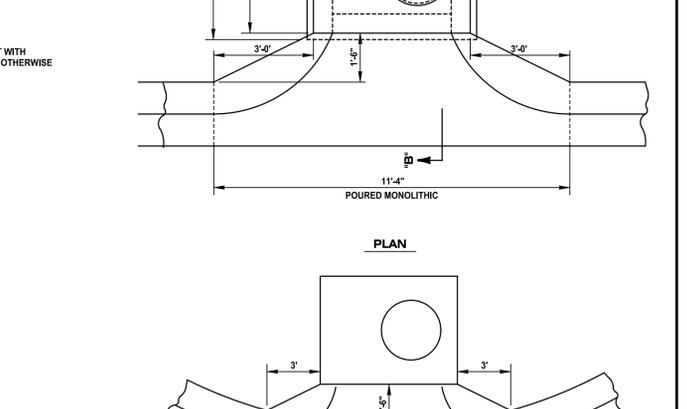


BAR SCHEDULE FOR TOP SLAB

NO.	SIZE	LOCATION	LENGTH
8	1/2" Ø	TRANSVERSE BARS - STRAIGHT	3'-0"
1	1/2" Ø	TRANSVERSE BARS - STRAIGHT	3'-4"
1	1/2" Ø	TRANSVERSE BARS - STRAIGHT	3'-0"
1	1/2" Ø	TRANSVERSE BARS - STRAIGHT	2'-9"
1	1/2" Ø	TRANSVERSE BARS - STRAIGHT	2'-5"
1	1/2" Ø	TRANSVERSE BARS - STRAIGHT	2'-0"
2	5/8" Ø	TRANSVERSE BARS - W/ HOOKED ENDS	3'-6"
5	1/2" Ø	LONGITUDINAL BARS - STRAIGHT	9'-9"
1	1/2" Ø	LONGITUDINAL BARS - STRAIGHT	6'-3"
1	1/2" Ø	LONGITUDINAL BARS - STRAIGHT	9'-9"

BAR SCHEDULE FOR TOP SLAB

NO.	SIZE	LOCATION	LENGTH
8	1/2" Ø	TRANSVERSE BARS - STRAIGHT	3'-0"
1	1/2" Ø	TRANSVERSE BARS - STRAIGHT	3'-4"
1	1/2" Ø	TRANSVERSE BARS - STRAIGHT	3'-0"
1	1/2" Ø	TRANSVERSE BARS - STRAIGHT	2'-9"
1	1/2" Ø	TRANSVERSE BARS - STRAIGHT	2'-5"
1	1/2" Ø	TRANSVERSE BARS - STRAIGHT	2'-0"
2	5/8" Ø	TRANSVERSE BARS - W/ HOOKED ENDS	3'-6"
5	1/2" Ø	LONGITUDINAL BARS - STRAIGHT	9'-9"
1	1/2" Ø	LONGITUDINAL BARS - STRAIGHT	6'-3"
1	1/2" Ø	LONGITUDINAL BARS - STRAIGHT	9'-9"



BAR SCHEDULE FOR TOP SLAB

NO.	SIZE	LOCATION	LENGTH
8	1/2" Ø	TRANSVERSE BARS - STRAIGHT	3'-0"
1	1/2" Ø	TRANSVERSE BARS - STRAIGHT	3'-4"
1	1/2" Ø	TRANSVERSE BARS - STRAIGHT	3'-0"
1	1/2" Ø	TRANSVERSE BARS - STRAIGHT	2'-9"
1	1/2" Ø	TRANSVERSE BARS - STRAIGHT	2'-5"
1	1/2" Ø	TRANSVERSE BARS - STRAIGHT	2'-0"
2	5/8" Ø	TRANSVERSE BARS - W/ HOOKED ENDS	3'-6"
5	1/2" Ø	LONGITUDINAL BARS - STRAIGHT	9'-9"
1	1/2" Ø	LONGITUDINAL BARS - STRAIGHT	6'-3"
1	1/2" Ø	LONGITUDINAL BARS - STRAIGHT	9'-9"

NOTES:
 1) STRUCTURES LARGER THAN 4'x6' (INSIDE) SHALL BE PRECAST OR CAST-IN-PLACE.
 2) PAVE WITH BRICK AND MORTAR UP TO SPRING LINE WHEREVER TWO OR MORE PIPES ENTER ONE INLET TO PROVIDE A CHANNEL FOR FLOW OF WATER THROUGH INLET.

MUMS NOTE:
 THIS CURB INLET HAS BEEN APPROVED BY PASCO COUNTY FOR USE ON NON-FUNCTIONALLY CLASSIFIED ROADWAYS, SUCH AS LOCAL STREETS AND SUBDIVISION COLLECTOR ROADWAYS. IT DOES NOT CONFORM TO THE FLORIDA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION, AND MAINTENANCE FOR STREETS AND HIGHWAYS, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, OR THE DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM. HOWEVER, WE HEREBY CERTIFY THAT IT IS SUITABLE FOR USE AT THE LOCATIONS DEPICTED HEREIN.

08-07-2019	PERMIT PLANS	JRD
DATE	DESCRIPTION	BY
	REVISIONS	

Clearview
 LAND DESIGN, P.L.
 Engineering Business C.A. No. 28858
 3010 W Azele St., Suite 150, Tampa, Florida 33609
 Office: 813-223-3919 Fax: 813-223-3975

DRAINAGE DETAILS

JOB NO. LNH-MR-014

DESIGN MELVIN

DRAWN DROOR

DATE 10-07-2019

FILE DD

MITCHELL RANCH 54 WEST
PHASE 2 CONSTRUCTION PLANS

PREPARED FOR: LENNAR HOMES

Elevations based on North American Vertical Datum 1988 (NAVD 88)
 Conversion from NAVD 88 to NGVD 29 = +0.84 Feet

SHEET 28 OF 45 SHEETS

TOP SLAB REINFORCING STEEL DIAGRAM (ALTERNATE A)

TOP SLAB REINFORCING STEEL DIAGRAM (ALTERNATE B)

SECTION A-A (ALTERNATE A)

SECTION B-B (ALTERNATE B)

TYPICAL SLAB TO WALL DETAILS FOR PRECAST STRUCTURES

LAST REVISION	DESCRIPTION:	FY 2019-20	INDEX	SHEET
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ROUND STRUCTURE BOTTOMS (ALTERNATE A) & ROUND RISERS- TABLE 1

Wall Thickness (t) & Vertical & Horizontal Areas of Reinforcement (A)

Type	Structure/Riser Diameter (ft)	Cast-In-Place Items Class II Concrete			Precast Items Class II Concrete			ASTM C478		
		t ₁ Riser (in.)	t ₂ Bottom (in.)	A ₁ (in. ² /ft.)	t ₁ Riser (in.)	t ₂ Bottom (in.)	A ₁ (in. ² /ft.)	t ₁ or t ₂ (in.)	A ₁ *** (in. ² /ft.)	
P	3'-6"	6	8	0.20	6	8	0.20	4**	0.105	
J	4'-0"	6	8	0.20	6	8	0.20	5**	0.120	
J	5'-0"	6	8	0.20	6	8	0.20	6**	0.150	
J	6'-0"	6	8	0.20	6	8	0.20	7**	0.210	
J	8'-0"	6	8	0.20	6	8	0.20	8**	0.240	
J	10'-0"	6	8	0.20	6	8	0.20	10**	0.300	
J	12'-0"	6	8	0.20	6	8	0.20	12**	0.360	

TABLE 1 NOTES:

**Provide 0.20 sq. in./ft. at each face, 12" max. bar spacing.

***Modified minimum wall thickness.

****Min. total circumferential reinforcement for continuous steel hoops.

A₁ = 0.60 sq. in. for riser section height equal or less than 2'-0" (2 hoop min.)

A₁ = 0.60 sq. in. for riser section height more than 2'-0" up to 4'-0" (3 hoop min.)

Areas of reinforcing for precast items are based on Grade 60 reinforcing.

No reduction in the area of reinforcing is allowed for welded wire fabric in Table 1.

Area of vertical reinforcing may be reduced in accordance with ASTM C478.

SQUARE & RECTANGULAR STRUCTURES (ALTERNATE B) - TABLE 2

Type	Wall Length (ft)	Max. Depth (ft)	Wall Thickness (t)	
			CIP (in.)	Precast (in.)
P	≤ 3'-6"	40	6 Riser	6
J	4'-0"	40	8	6
J	5'-0"	22	-	6
J	6'-0"	15	-	6
J	9'-0" to 9'-6"	40	8	8
J	10'-0"	26	8	8
J	10'-0" to 12'-0"	40	10	9
J	16'-0"	35	-	9
J	16'-0"	40	10	10
J	20'-0"	25	-	9
J	20'-0"	30	10	10

TABLE 2 NOTES:

See Table 8 for Reinforcing Schedule.

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TYPE I

TYPE II

TYPE III

WEIGHT OF CASTINGS (lb)

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

NOTES (FRAMES, AND COVER)

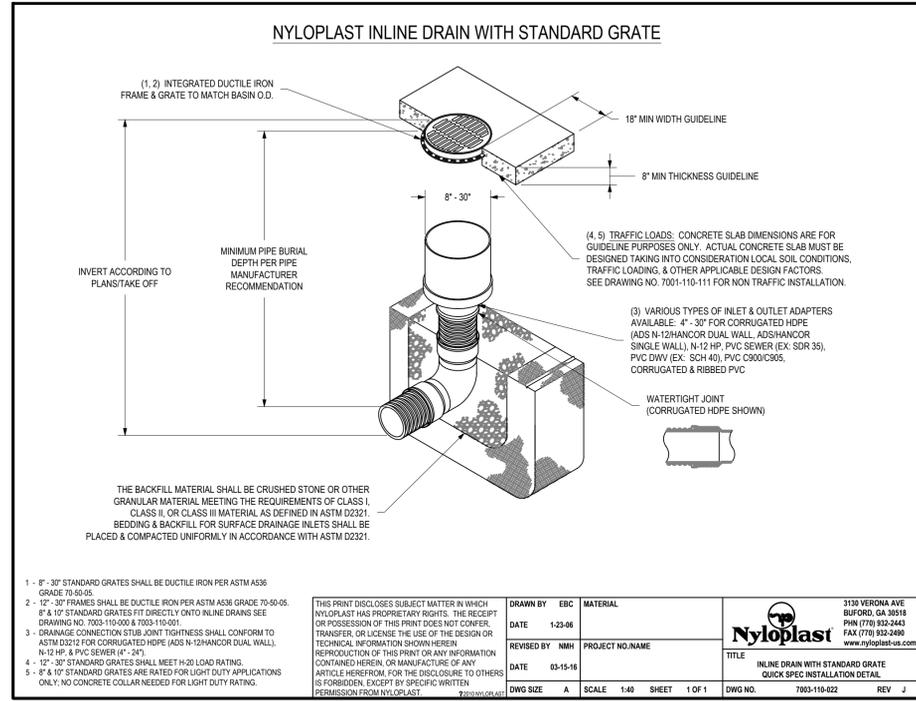
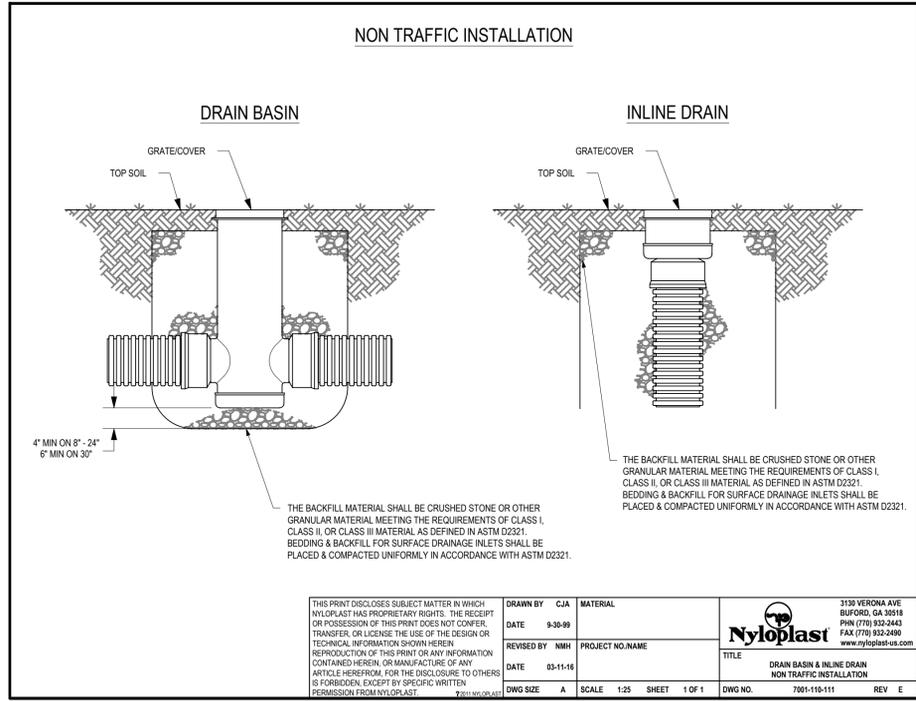
- The standard cover is to be used for all Frames Types I, II, III and the 2-piece cover, and is the replacement cover for all previous frames with 1 1/2" deep seats (traffic type). The 185 lb. cover (nontraffic type), 1984 Roadway and Traffic Design Standards Index 201, is the replacement cover for existing frames with 1 1/2" deep seats. Installation of frame with 1 1/2" deep seats is not permitted.
- Use the 2'-0" cover, unless the 2-piece cover is called for in the plans, except at inlets and manholes with sump bottoms use the 2-piece cover when the sump depth exceeds 2', unless otherwise noted.

DESIGNER NOTE:

Consider using the 2-piece cover where depths exceed 5' and manual entry may be required for cleaning. Clearly note the requirement for a 2-piece cover on the Drainage Structure sheets in the plans.

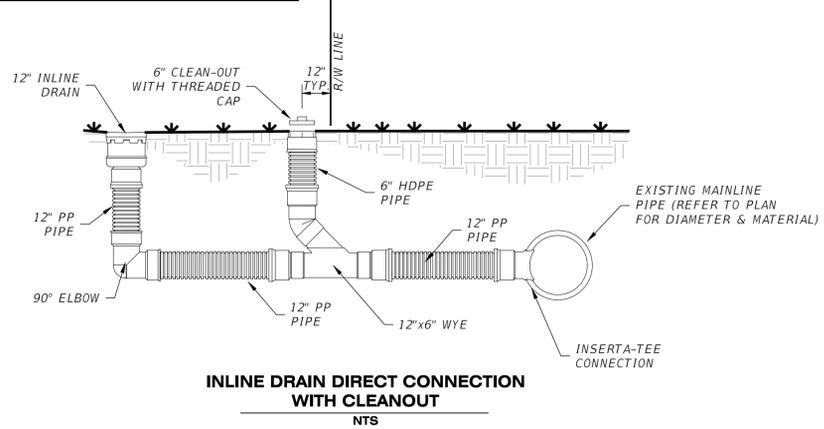
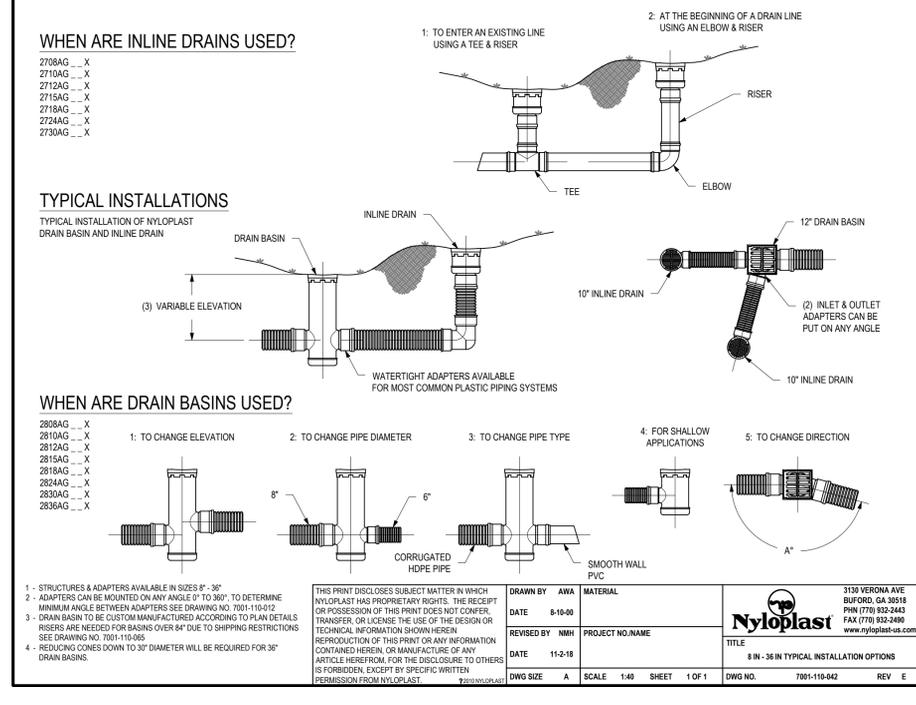
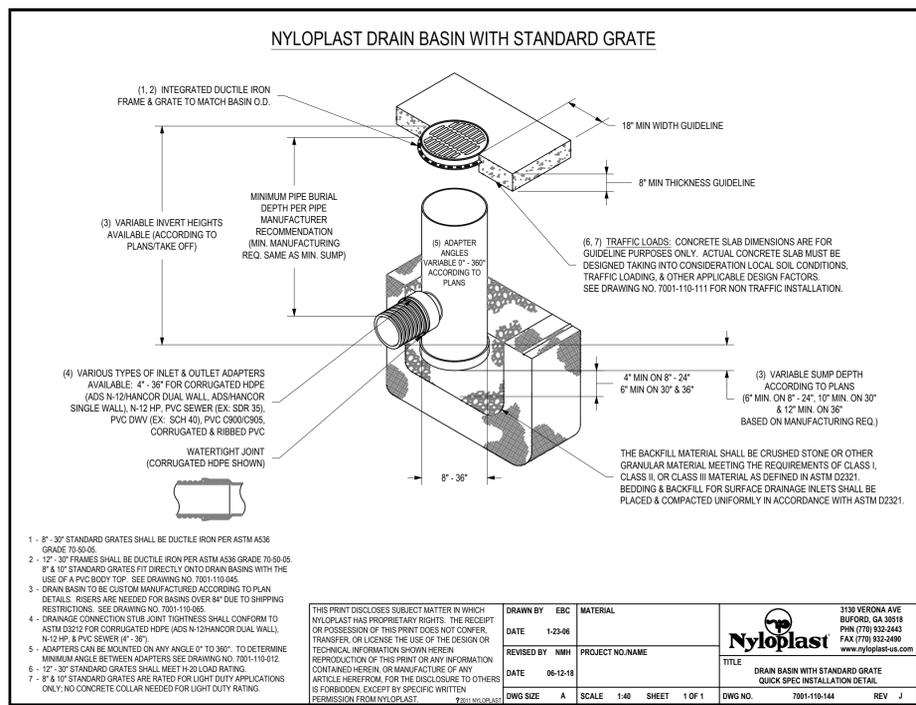
LAST REVISION	DESCRIPTION:	FY 2019-20	INDEX	SHEET
11/01/17		STANDARD PLANS	425-001	1 of 5

<p>Engineering Business C.A. No.: 28858 3010 W Azele St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975</p>		<p>DRAINAGE DETAILS</p> <p>MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS</p>	
JOB NO. LNH-MR-014	DESIGN MELVIN	PREPARED FOR LENNAR HOMES	DATE 10-07-2019
DRAWN DROOR	DATE 10-07-2019	FILE DD	<p>Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet</p> <p>SHEET 29 OF 45 SHEETS</p>
10-07-2019 08-07-2019	UPDATE FDOT DETAILS PERMIT PLANS	BEM JRD	
DATE	DESCRIPTION	BY	
	REVISIONS		



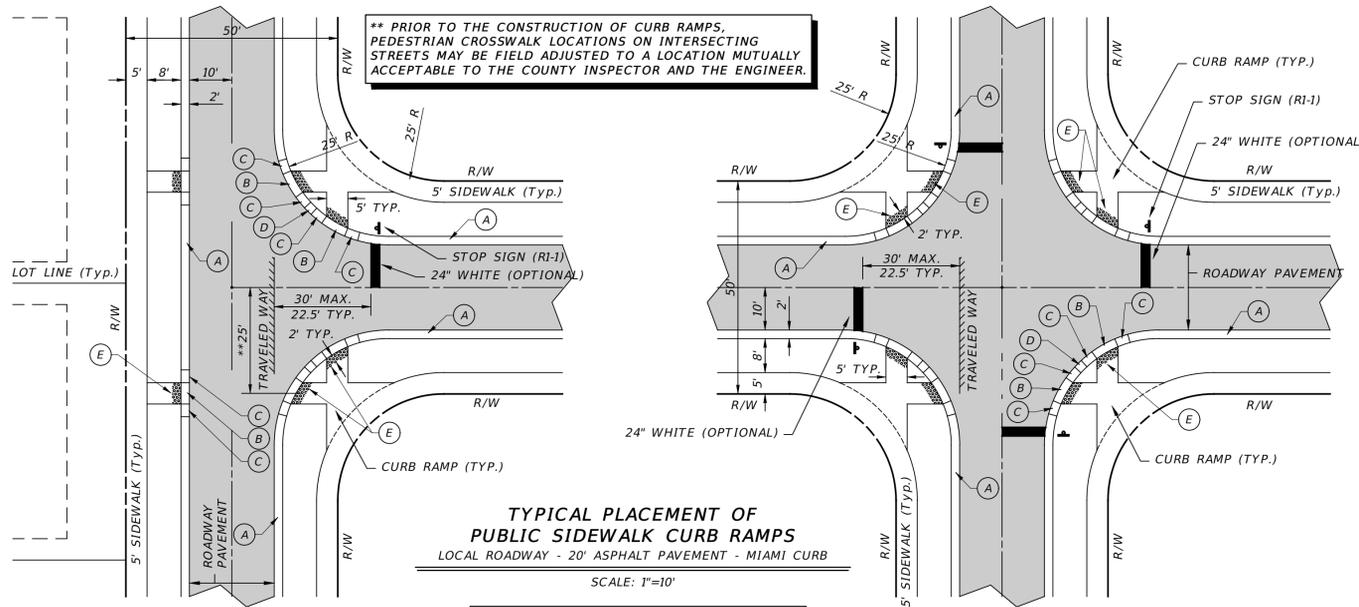
DRAIN BASIN AND INLINE DRAIN NOTES:

1. Drain Basins & Inline Drain locations may required field adjusted to accommodate conflicts with landscaping and irrigation. Notify the Engineer prior to make adjustments.
2. Drain Basin & Inline Drain materials to be ADS Nyloplast brand or approved equal.
3. Polyvinyl-chloride pipe or corrugated polyethylene pipe used in yard drain/area drain applications shall meet the following requirements unless otherwise noted:
 - (a) PVC pipe: ASTM D-3034 SDR-35
 - (b) Corrugated HDPE pipe: use ADS N-12 or HDPE in conformance with AASHTO M-252 and M-294, Class II.
4. PP refers to Polypropylene Pipe. All Polypropylene Pipe shall meet FDOT Specification 948-7.
5. Pipe to Pipe connections shall be make with Inserta-Tee watertight connections, or approved equal.



Clearview LAND DESIGN, P.L.L.C.		DRAINAGE DETAILS	
Engineering Business C.A. No.: 28858 3010 W Azele St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975		JOB NO. LNH-MR-014 DESIGN MELVIN DRAWN DROOR DATE 10-07-2019 FILE DD	
BRIAN G. SURAK P.E. NO. 59064 FLORIDA PROFESSIONAL ENGINEER		PREPARED FOR: LENNAR HOMES Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet	
08-07-2019 PERMIT PLANS		JRD	
DATE DESCRIPTION BY		REVISIONS	
SHEET 30 OF 45 SHEETS			

P. MITCHELL RANCH WITCHELL RANCH 54 WEST PHASE 2 DRAWING CONDO/CD/DWG-30 DRAINAGE DETAILS 2019/10/07 10:46 AM BRETT MELVIN

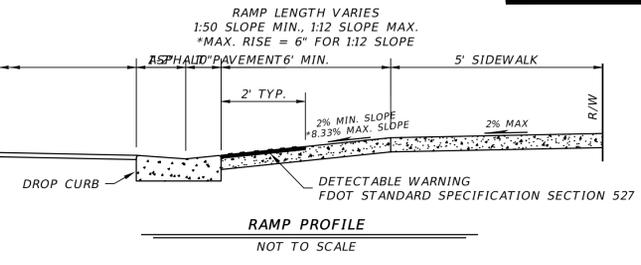


TYPICAL PLACEMENT OF PUBLIC SIDEWALK CURB RAMPS
LOCAL ROADWAY - 20' ASPHALT PAVEMENT - MIAMI CURB

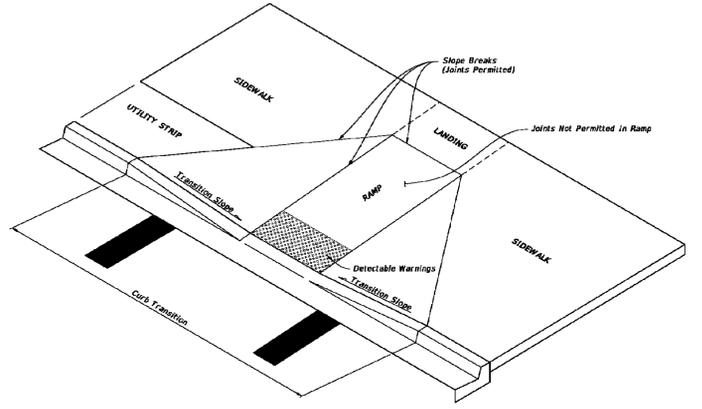
SCALE: 1"=10'

DETECTABLE WARNING STANDARD
(REFER TO LOCAL COLOR STANDARD)
BLACK - FDOT
YELLOW - CITY OF TAMPA
RED - HILLSBOROUGH COUNTY

- (A) CONCRETE CURB (TYP.) (SEE TYPICAL ROADWAY SECTION)
- (B) DROP CURB (TYP.)
- (C) 3" CURB TRANSITION (TYP.)
- (D) 2' FULL HEIGHT CONCRETE CURB (TYP.) (SEE TYPICAL ROADWAY SECTION)
- (E) CURB RAMP DETECTABLE WARNING (TYP.)

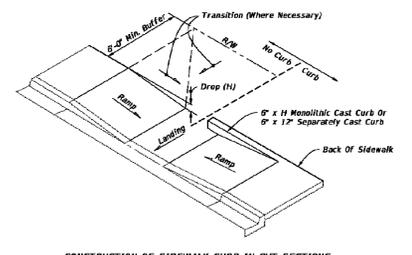
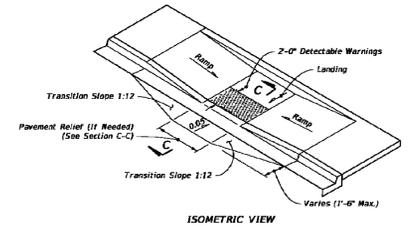


- GENERAL NOTES**
- Cross Slopes and Grades:**
 - A. Sidewalk, ramp, and landing slopes (i.e. 0.02, 0.05, and 1:12) shown in this Index are maximums. With approval of the Engineer, provide the minimum feasible slope where the requirements cannot be met.
 - B. Landings must have cross-slopes less than or equal to 0.02 in any direction.
 - C. Install ramp slopes along a single linear plane (i.e. no warps or varying slope). Ramp slopes are not required to exceed 15 feet in length.
 - D. Joints permitted at the location of Slope Breaks. Otherwise locate joints in accordance with Index 522-001. No joints are permitted within the ramp portion of the Curb Ramp.
 - Grade Breaks:**
 - A. Grade breaks at the top and bottom of ramps must be parallel to each other and perpendicular to the direction of the ramp slope.
 - Curb, Curb and Gutter and/or Sidewalk:**
 - A. Refer to Index 522-001 for concrete thickness and sidewalk details.
 - B. Remove any existing curb or gutter to the nearest joint beyond the curb transition or to the extent that no remaining section of curb or gutter is less than 5 feet long. Remove any existing sidewalk to the nearest joint beyond the transition slope or to the extent that no remaining section of sidewalk is less than 5 feet long.
 - Curb Ramp Alpha-Identification:**
 - A. Sidewalk curb ramp alpha-identifications (e.g. CR-A) are provided for reference purposes in the Plans.
 - B. Alpha-identifications CR-1 and CR-J are intentionally omitted.
 - Detectable Warnings:**
 - A. Install detectable warnings in accordance with Specification 527.
 - B. Place detectable warnings across the full width of the ramp or landing, to a minimum depth of 2 feet measured perpendicular to the curb line and no greater than 5 feet from the back of the curb or edge of pavement.
 - C. If detectable warnings are shown on slopes greater than 5%, align the truncated domes with the contourline of the ramp; otherwise, the truncated domes are not required to be aligned.
 - Detectable Warnings - Acceptance Criteria:**
 - A. Color and texture shall be complete and uniform.
 - B. 90% of individual truncated domes shall be in accordance with the Americans with Disabilities Act Standards for Transportation Facilities, Section 705.
 - C. There shall be no more than 4 non-compliant domes in any one square foot.
 - D. Non-compliant domes shall not be adjacent to other non-compliant domes.
 - E. Surfaces shall not deviate more than 0.10" from a true plane.

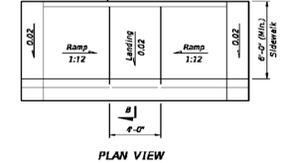


CURB RAMP NOMENCLATURE

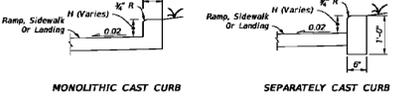
LAST REVISION: 11/01/17	DESCRIPTION:	FDOT	FY 2018-19 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX 522-002	SHEET 1 of 8
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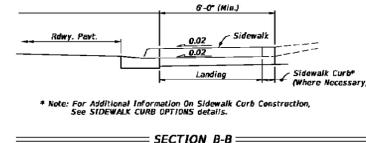
CONSTRUCTION OF SIDEWALK CURB IN CUT SECTIONS



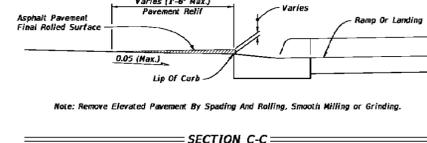
PLAN VIEW



SIDEWALK CURB OPTIONS



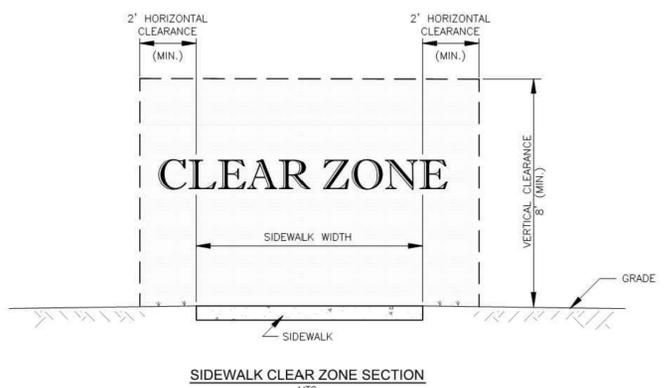
SECTION B-B



SECTION C-C

SIDEWALK CURB RAMPS CR-C AND SIDEWALK CURB

LAST REVISION: 11/01/17	DESCRIPTION:	FDOT	FY 2018-19 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX 522-002	SHEET 3 of 8
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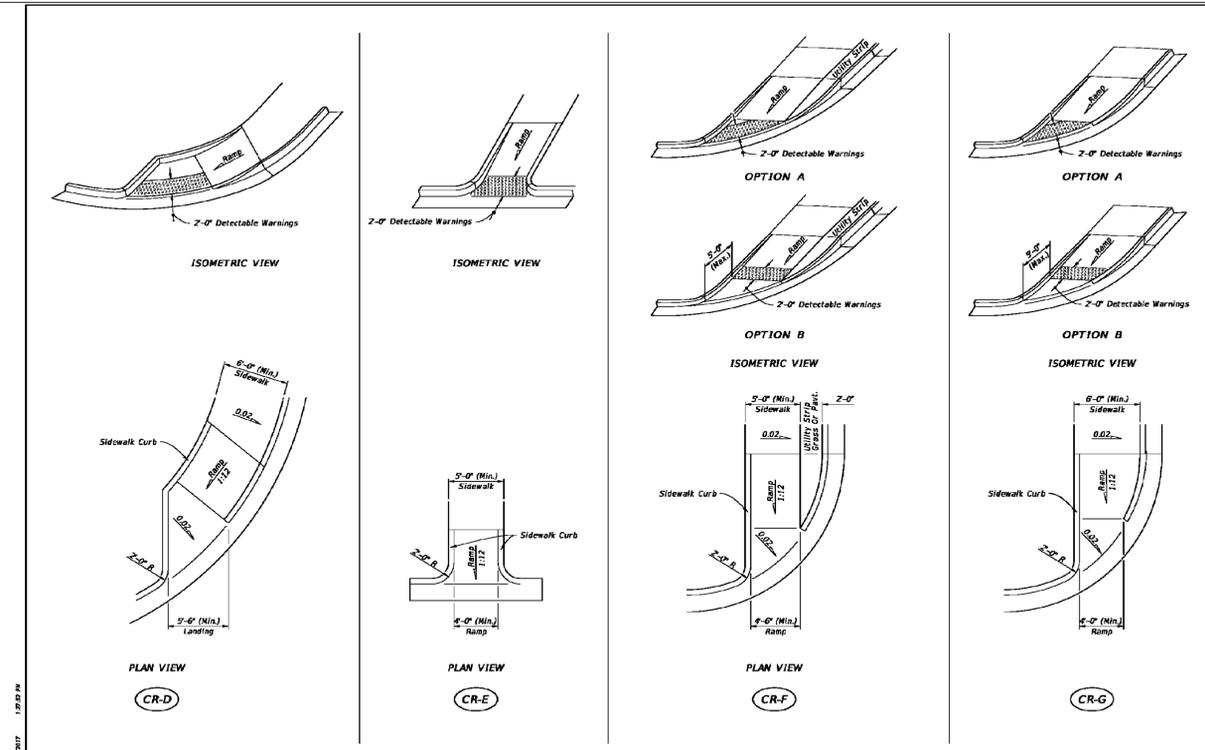


SIDEWALK CLEAR ZONE SECTION

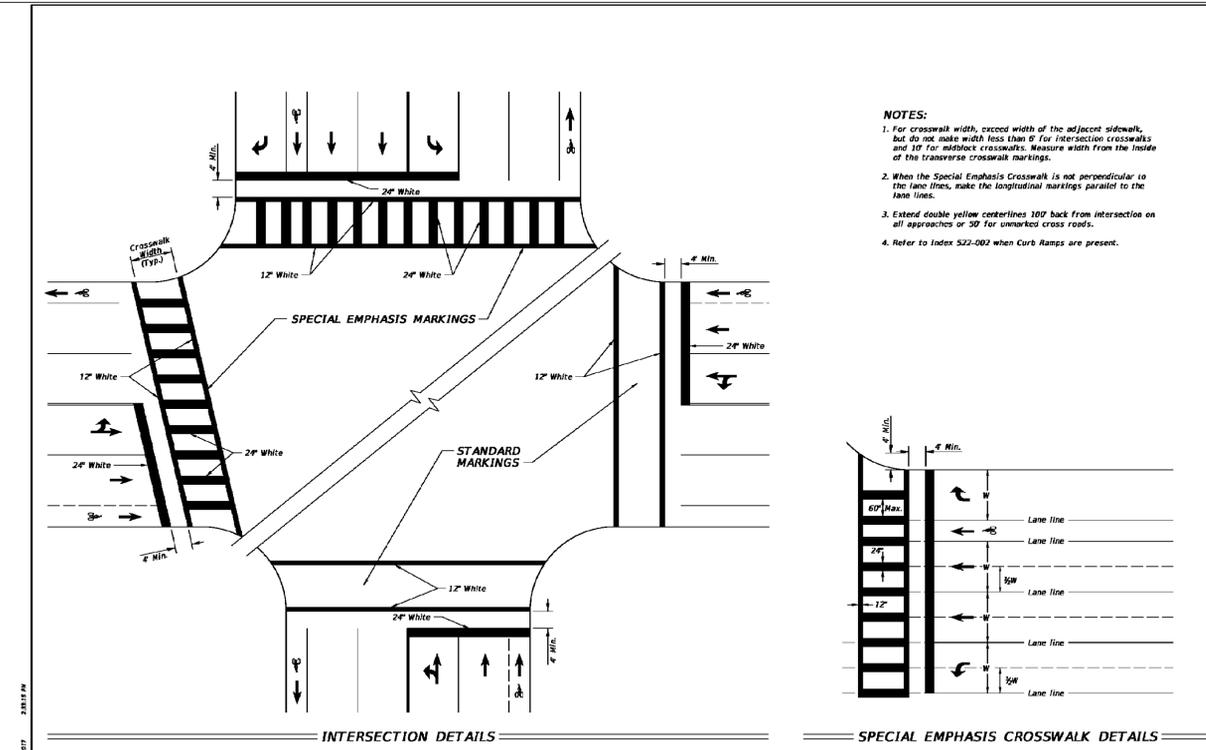
- NOTES:**
- THIS CLEAR ZONE APPLIES TO THE SIDEWALK ONLY. IT IS NOT INTENDED FOR ROADWAY PLACEMENT SET BACKS.
 - THE SIDEWALK CLEAR ZONE SHALL BE AN OPEN WINDOW FREE OF OBSTACLES. THIS INCLUDES SHRUBS, TREES, FENCES, ABOVE GROUND UTILITIES, I.E., POWER POLES, STREET LIGHTS, GUY ANCHORS, FIRE HYDRANTS, BLOW-OFFS, MAIL BOXES, STREET SIGNS, UTILITY MARKERS, ETC.
 - THE SIDEWALK HORIZONTAL CLEAR ZONE CLEARANCE IS MEASURED FROM THE SIDEWALK EDGE AND SHALL BE A MINIMUM OF 2 FEET.
 - THE SIDEWALK VERTICAL CLEAR ZONE CLEARANCE IS MEASURED FROM THE FINISHED SIDEWALK SURFACE AND SHALL BE A MINIMUM OF 8 FEET.

NOTE: NO DEVIATIONS TO THIS DETAIL WILL BE PERMITTED UNLESS APPROVED BY THE COUNTY ENGINEER. ANY PROPOSED ALTERATIONS SHALL BE CLEARLY IDENTIFIED AND HIGHLIGHTED ON DETAIL.	PASCO COUNTY ENGINEERING SERVICES DESIGN STANDARDS	APPROVED BY: JCM	SEC. APPROVAL REVISED	Sheet No: 1 of 1 Index No: 106
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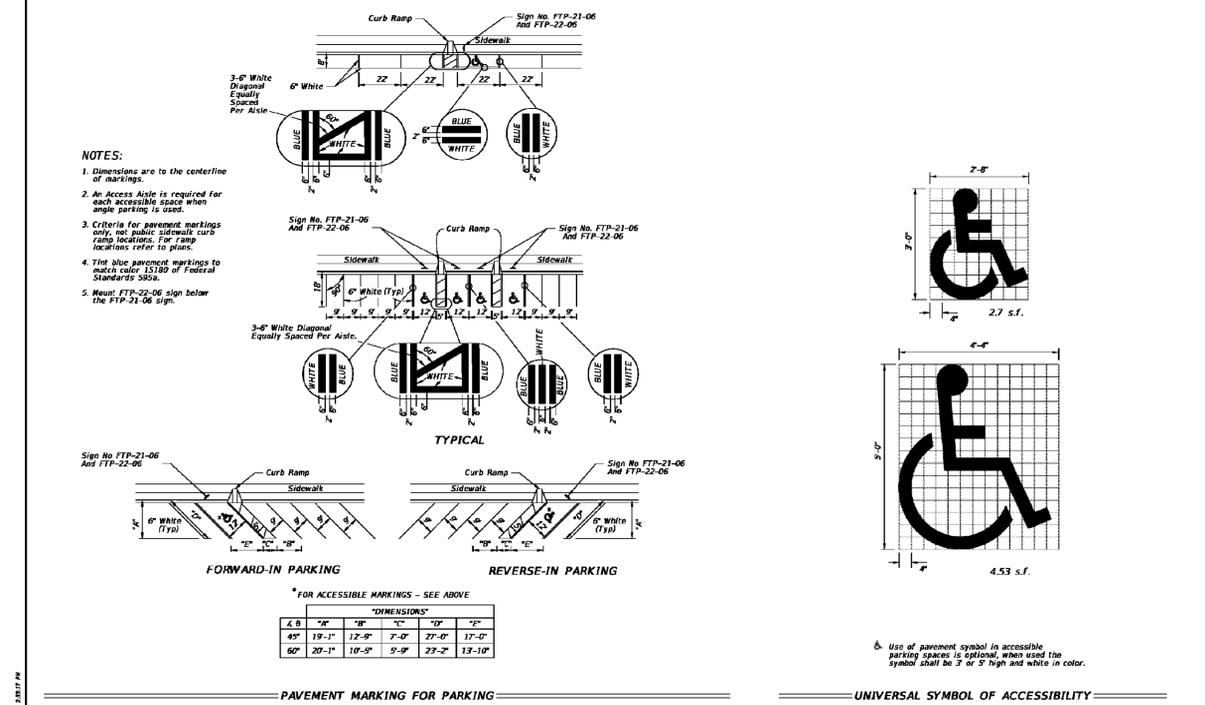
Clearview LAND DESIGN, P.L. Engineering Business C.A. No.: 28858 3010 W Azele St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975		SIDEWALK DETAILS JOB NO. LNH-MR-014 DESIGN: MELVIN DRAWN: DROOR DATE: 10-07-2019 FILE: SWD		MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS PREPARED FOR: LENNAR HOMES ELEVATIONS based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet	
10-07-2019 UPDATE FDOT DETAILS 08-07-2019 PERMIT PLANS DATE DESCRIPTION BY REVISIONS	BEM JRD	SHEET 31 OF 45 SHEETS			



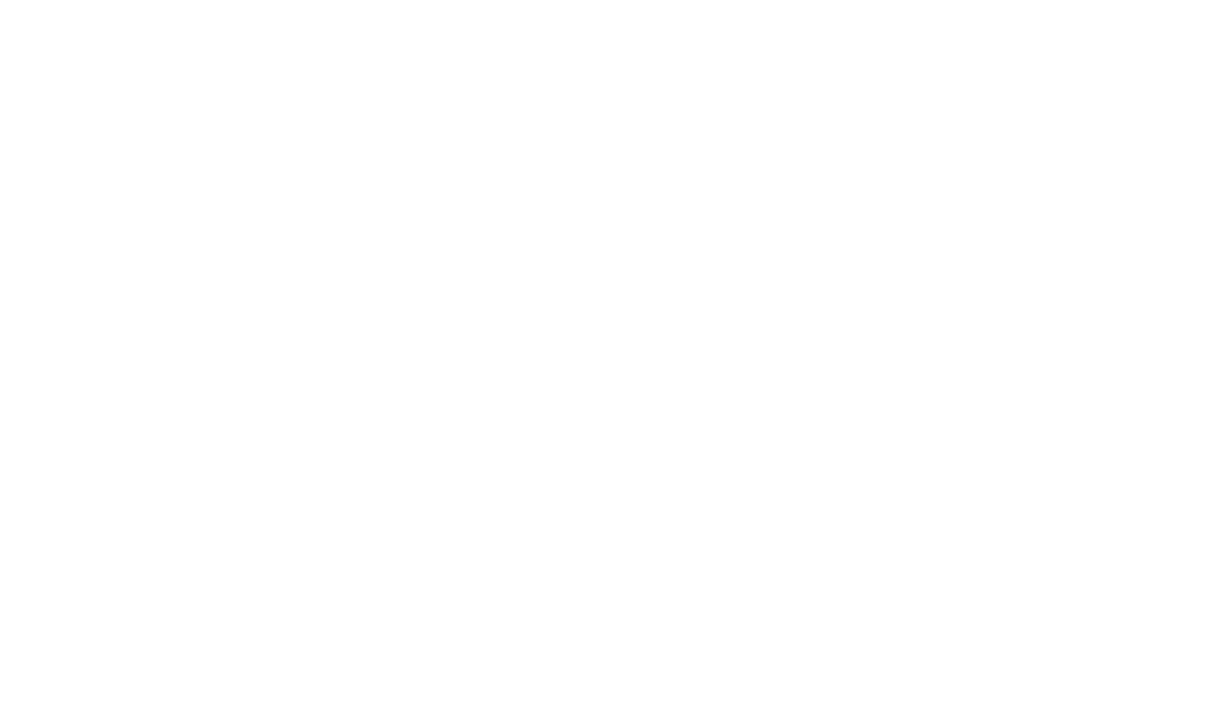
LAST REVISION 11/01/17	DESCRIPTION: FDOT FY 2018-19 STANDARD PLANS	INDEX 522-002	SHEET 4 of 8
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LAST REVISION 11/01/17	DESCRIPTION: FDOT FY 2018-19 STANDARD PLANS	INDEX 711-001	SHEET 10 of 14
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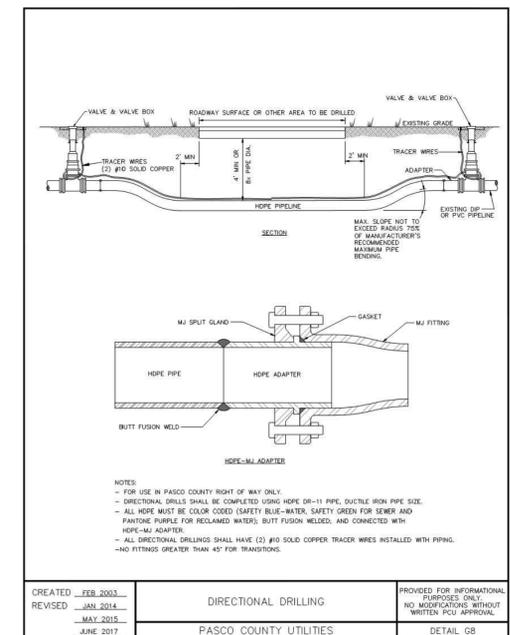
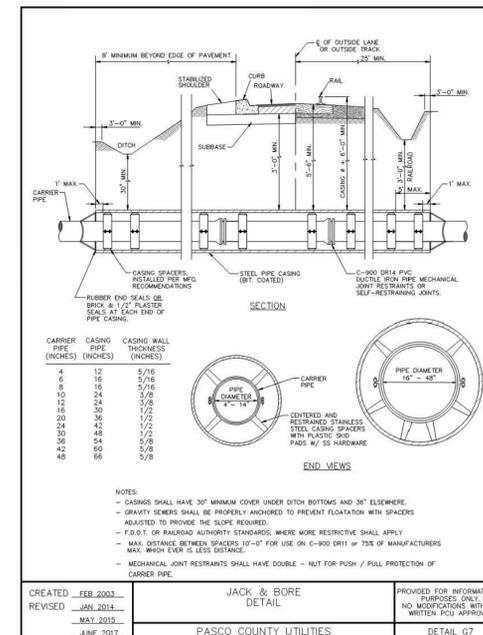
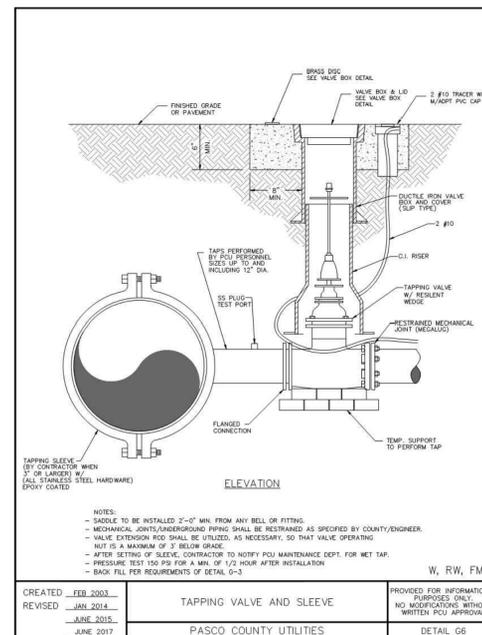
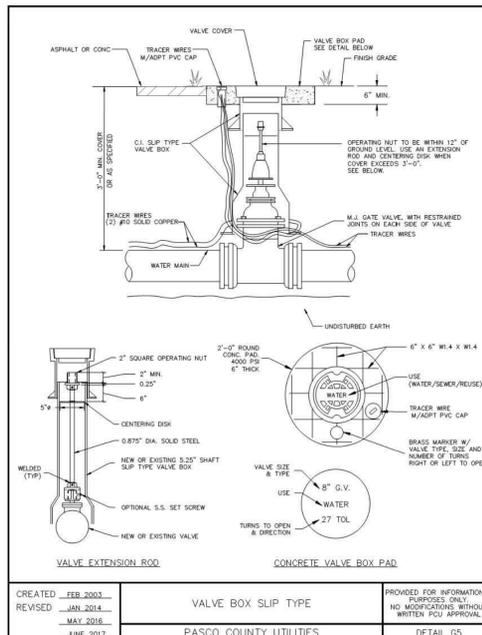
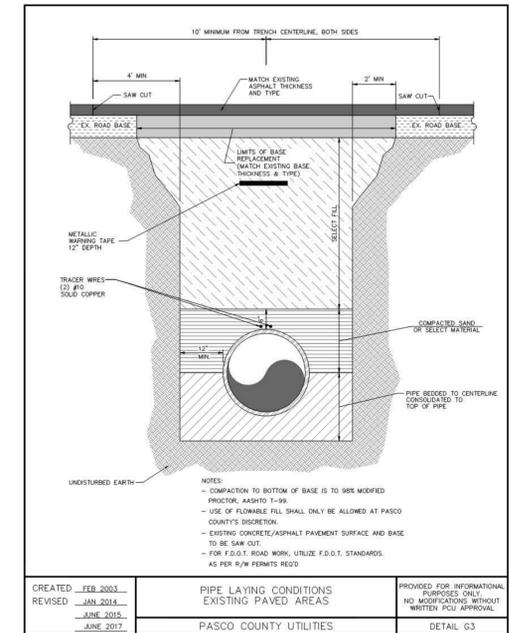
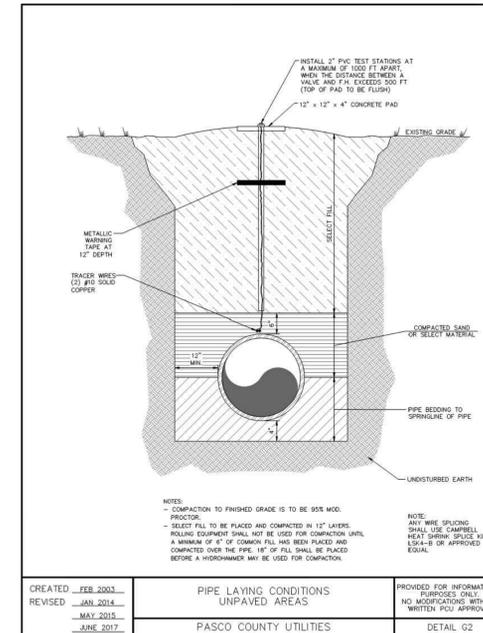
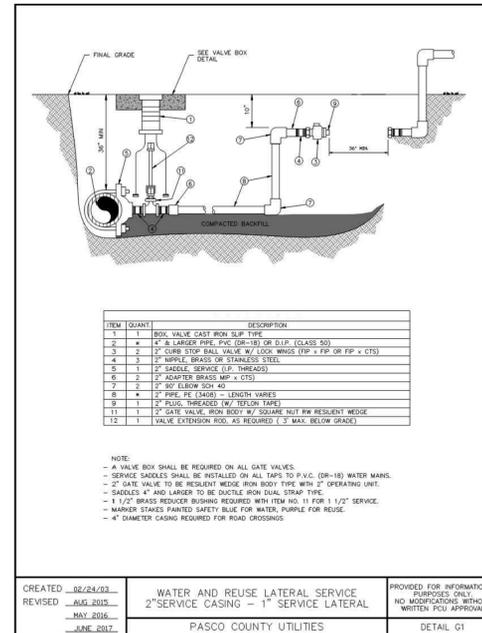
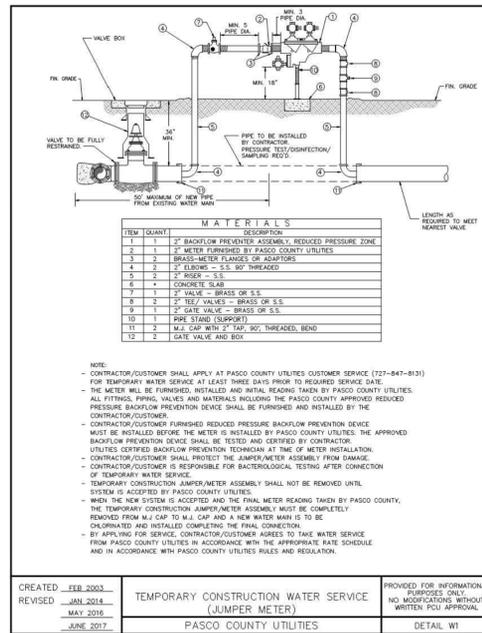
LAST REVISION 11/01/17	DESCRIPTION: FDOT FY 2018-19 STANDARD PLANS	INDEX 711-001	SHEET 13 of 14
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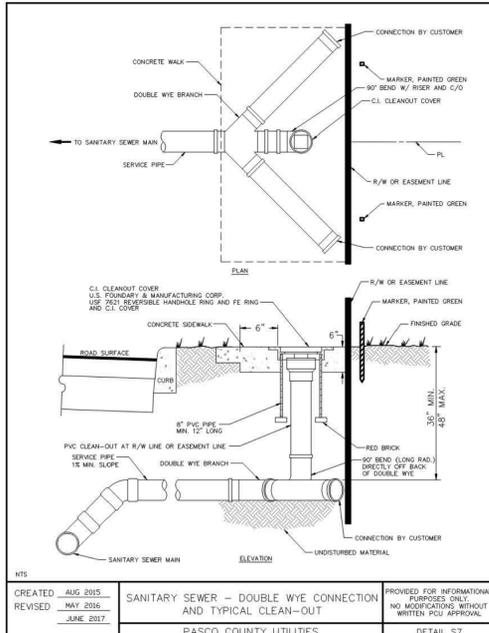
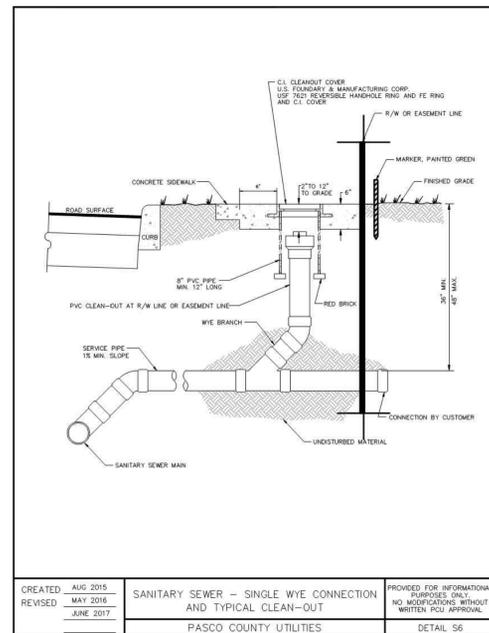
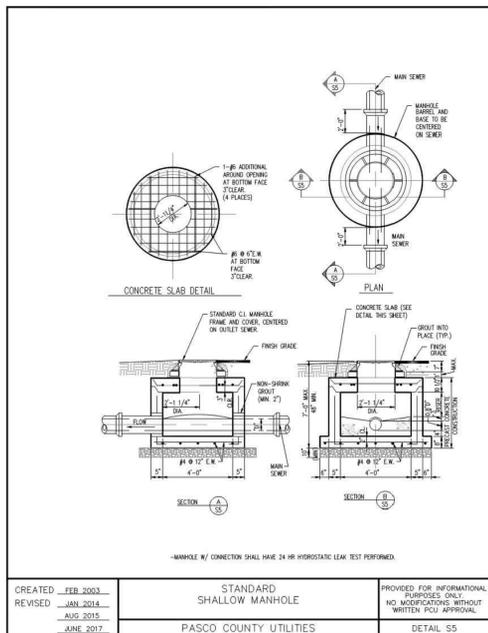
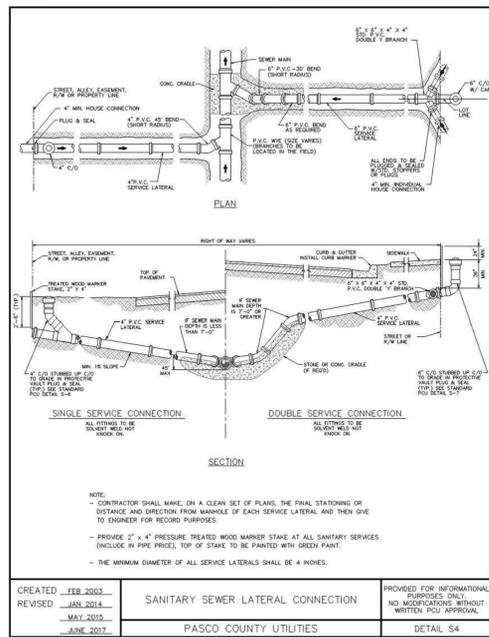
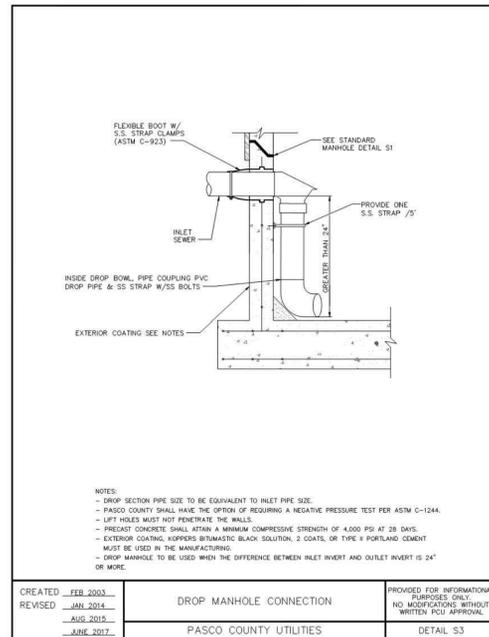
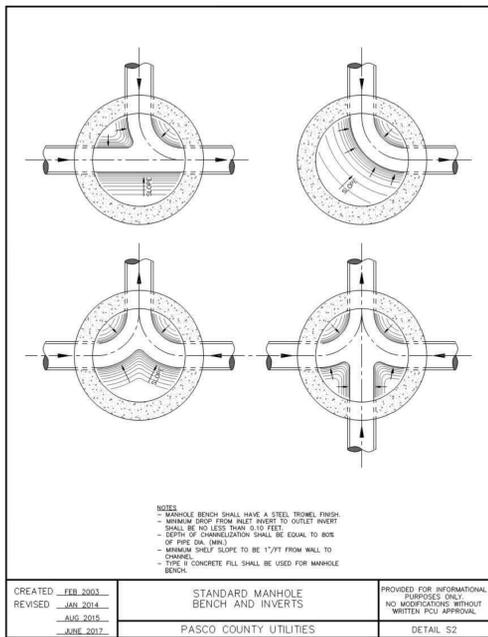
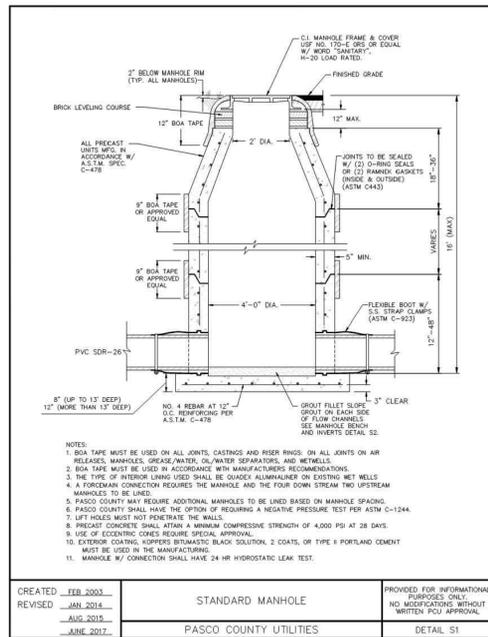
LAST REVISION 11/01/17	DESCRIPTION: FDOT FY 2018-19 STANDARD PLANS	INDEX 711-001	SHEET 13 of 14
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Clearview LAND DESIGN, P.L. Engineering Business C.A. No.: 28858 3010 W Azele St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975		SIDEWALK DETAILS JOB NO: LNH-MR-014 DESIGN: MELVIN DRAWN: DROOR DATE: 10-07-2019 FILE: SWD	
10-07-2019 UPDATE FDOT DETAILS 08-07-2019 PERMIT PLANS DATE DESCRIPTION REVISIONS BY BEM JRD		MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS PREPARED FOR: LENNAR HOMES DATE: Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet SHEET 32 OF 45 SHEETS	

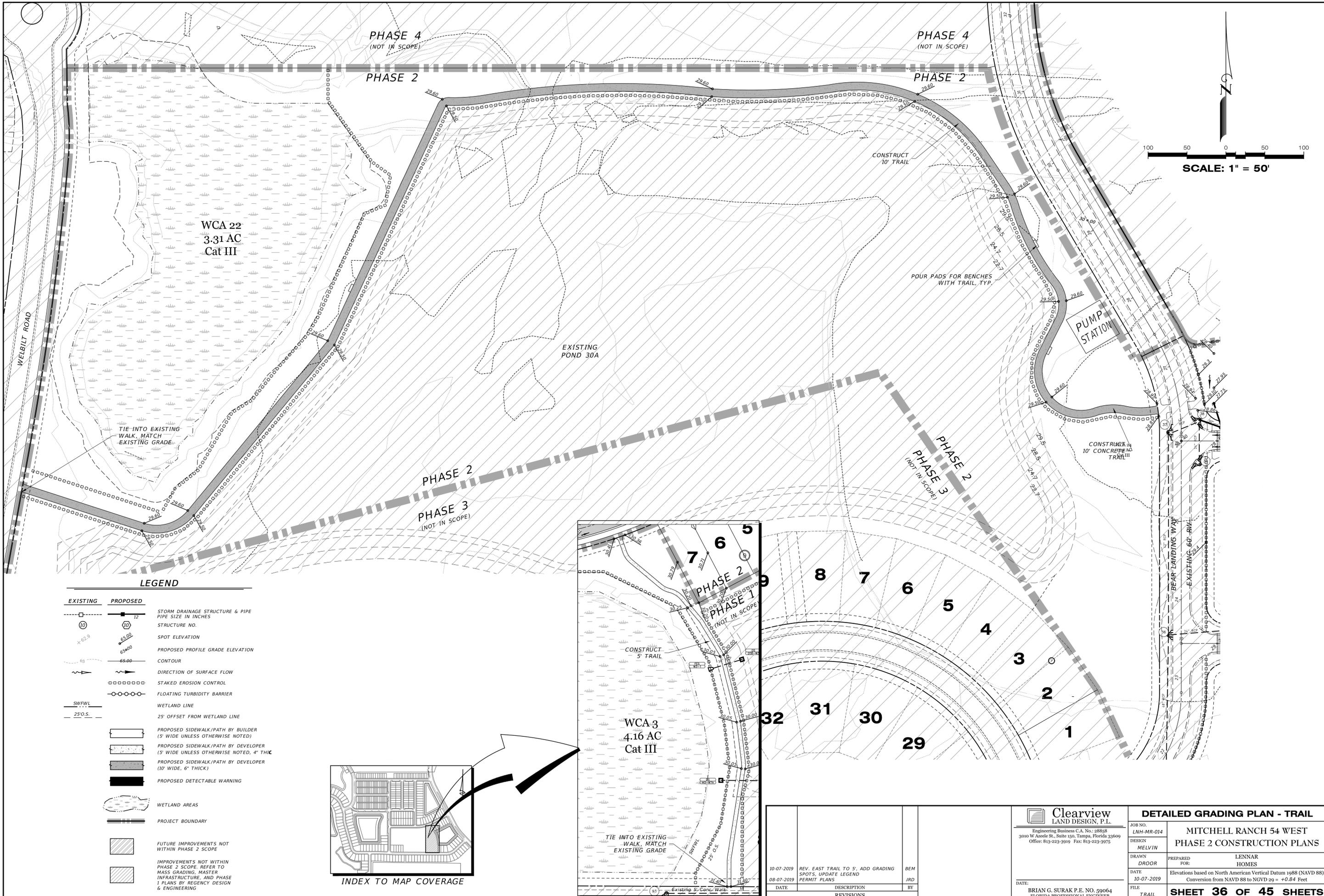
P:\MITCHELL RANCH\MITCHELL RANCH 54 WEST PHASE 2\DRAWINGS\CONDOCS\SIDEWALK DETAILS 2019/10/07 10:46 AM BRETT MELVIN



Clearview LAND DESIGN, P.L. Engineering Business C.A. No.: 28858 3010 W Zele St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 8	
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Clearview LAND DESIGN, P.L. Engineering Business C.A. No. 28858 3010 W Azele St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975			UTILITY DETAILS		
JOB NO. LNH-MR-014 DESIGN MELVIN DRAWN DROOR DATE 10-07-2019 FILE WSD			MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS		
PREPARED FOR: LENNAR HOMES			DATE: Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet		
DATE: 08-07-2019 DESCRIPTION: PERMIT PLANS BY: JRD			SHEET 35 OF 45 SHEETS		
DATE: _____ DESCRIPTION: REVISIONS BY: _____			BRIAN G. SURAK P.E. NO. 59064 FLORIDA PROFESSIONAL ENGINEER		



WCA 22
3.31 AC
Cat III

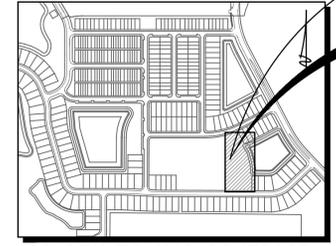
EXISTING
POND 30A

PUMP
STATION

WCA 3
4.16 AC
Cat III

LEGEND

EXISTING	PROPOSED	
		STORM DRAINAGE STRUCTURE & PIPE PIPE SIZE IN INCHES
		STRUCTURE NO.
		SPOT ELEVATION
		PROPOSED PROFILE GRADE ELEVATION
		CONTOUR
		DIRECTION OF SURFACE FLOW
		STAKED EROSION CONTROL
		FLOATING TURBIDITY BARRIER
		WETLAND LINE
		25' OFFSET FROM WETLAND LINE
		PROPOSED SIDEWALK/PATH BY BUILDER (5' WIDE UNLESS OTHERWISE NOTED)
		PROPOSED SIDEWALK/PATH BY DEVELOPER (5' WIDE UNLESS OTHERWISE NOTED, 4" THICK)
		PROPOSED SIDEWALK/PATH BY DEVELOPER (10' WIDE, 6" THICK)
		PROPOSED DETECTABLE WARNING
		WETLAND AREAS
		PROJECT BOUNDARY
		FUTURE IMPROVEMENTS NOT WITHIN PHASE 2 SCOPE
		IMPROVEMENTS NOT WITHIN PHASE 2 SCOPE. REFER TO MASS GRADING, MASTER INFRASTRUCTURE, AND PHASE 1 PLANS BY REGENCY DESIGN & ENGINEERING



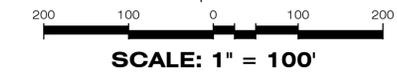
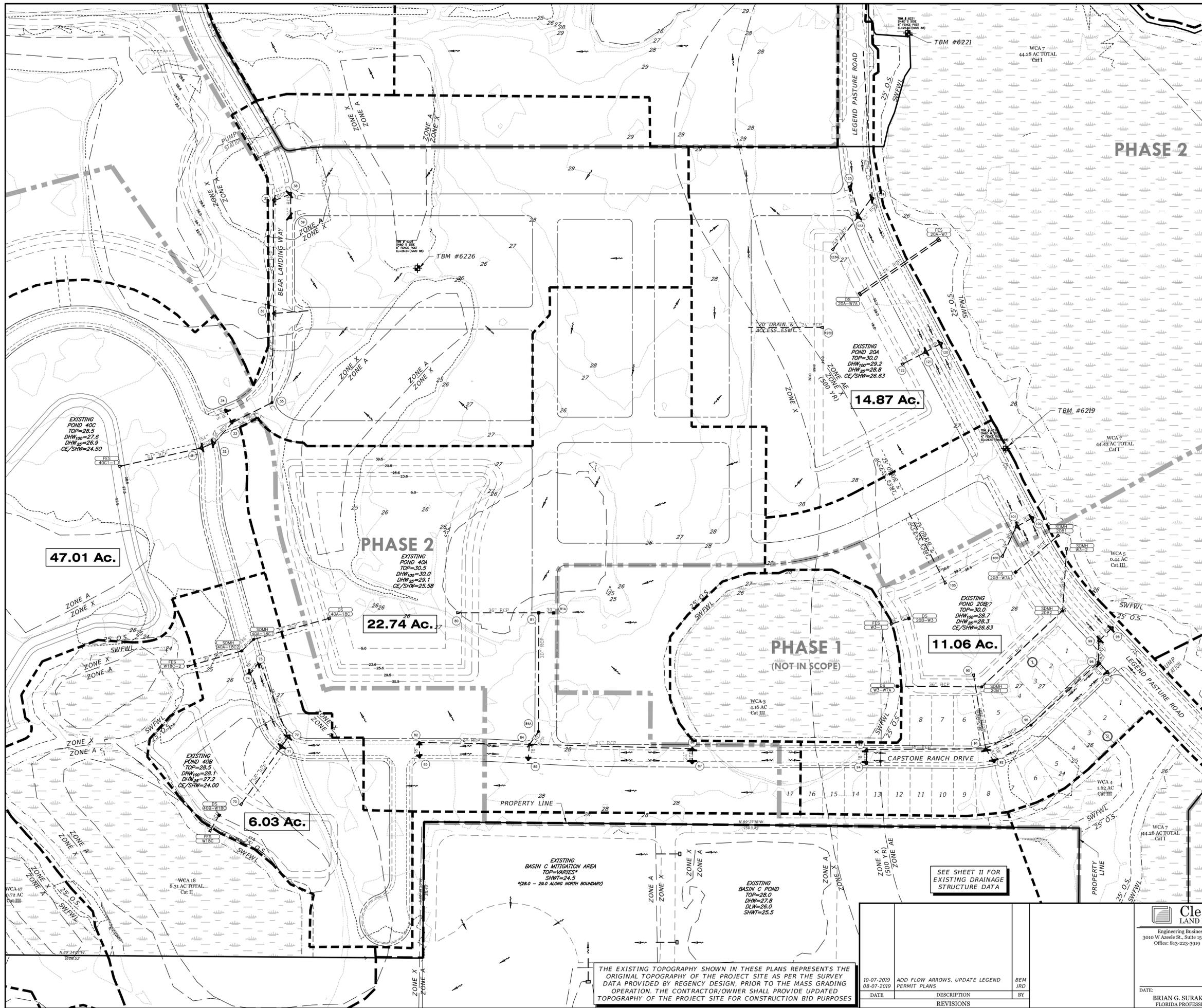
INDEX TO MAP COVERAGE

<p>10-07-2019 REV. EAST TRAIL TO 5', ADD GRADING SPOTS, UPDATE LEGEND PERMIT PLANS</p>		<p>BEM JRD</p>
DATE	DESCRIPTION	BY
	REVISIONS	

Clearview
LAND DESIGN, P.L.
Engineering Business C.A. No.: 28858
3010 W Azele St., Suite 150, Tampa, Florida 33609
Office: 813-223-3919 Fax: 813-223-3975

DETAILED GRADING PLAN - TRAIL	
JOB NO. LNH-MR-014	MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS
DESIGN MELVIN	
DRAWN DROOR	PREPARED FOR LENNAR HOMES
DATE 10-07-2019	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet
FILE TRAIL	SHEET 36 OF 45 SHEETS

BRIAN G. SURAK P.E. NO. 59064
FLORIDA PROFESSIONAL ENGINEER



LEGEND

EXISTING	PROPOSED	DESCRIPTION
		STORM DRAINAGE STRUCTURE & PIPE SIZE IN INCHES
		STRUCTURE NO.
		SPOT ELEVATION
		PROPOSED PROFILE GRADE ELEVATION
		CONTOUR
		DIRECTION OF SURFACE FLOW
		STAKED EROSION CONTROL
		FEMA FLOOD ZONE BOUNDARY
		BASE FLOOD ELEVATION (FT)
		WETLAND LINE
		25' OFFSET FROM WETLAND LINE
		WCA 108 (Ac.) Cat III
		WETLAND AREAS
		PROJECT BOUNDARY
		PLAN & PROFILE SHEET NO. REFERENCE
		ROADWAY AUGER LOCATION
		5' WIDE x 4" THK. CONCRETE SIDEWALK TO BE INSTALLED BY SITE DEVELOPER
		FUTURE IMPROVEMENTS NOT WITHIN PHASE 2 SCOPE
		IMPROVEMENTS NOT WITHIN PHASE 2 SCOPE. REFER TO MASS GRADING, MASTER INFRASTRUCTURE, AND PHASE 1 PLANS BY REGENCY DESIGN & ENGINEERING
		1.00 AC.
		MAJOR DRAINAGE AREA

WETLAND IMPACTS PREVIOUSLY PERMITTED UNDER PASCO COUNTY PERMIT LRG 15-039, 4/22/18 AND SWFWL PERMIT NO. 43013055.007 AND ARE SHOWN ON THE PLANS DATED 4/27/16 TITLED "MITCHELL 54 WEST MASS GRADING" PREPARED BY REGENCY DESIGN & ENGINEERING, INC.

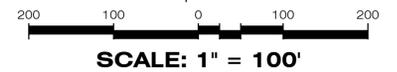
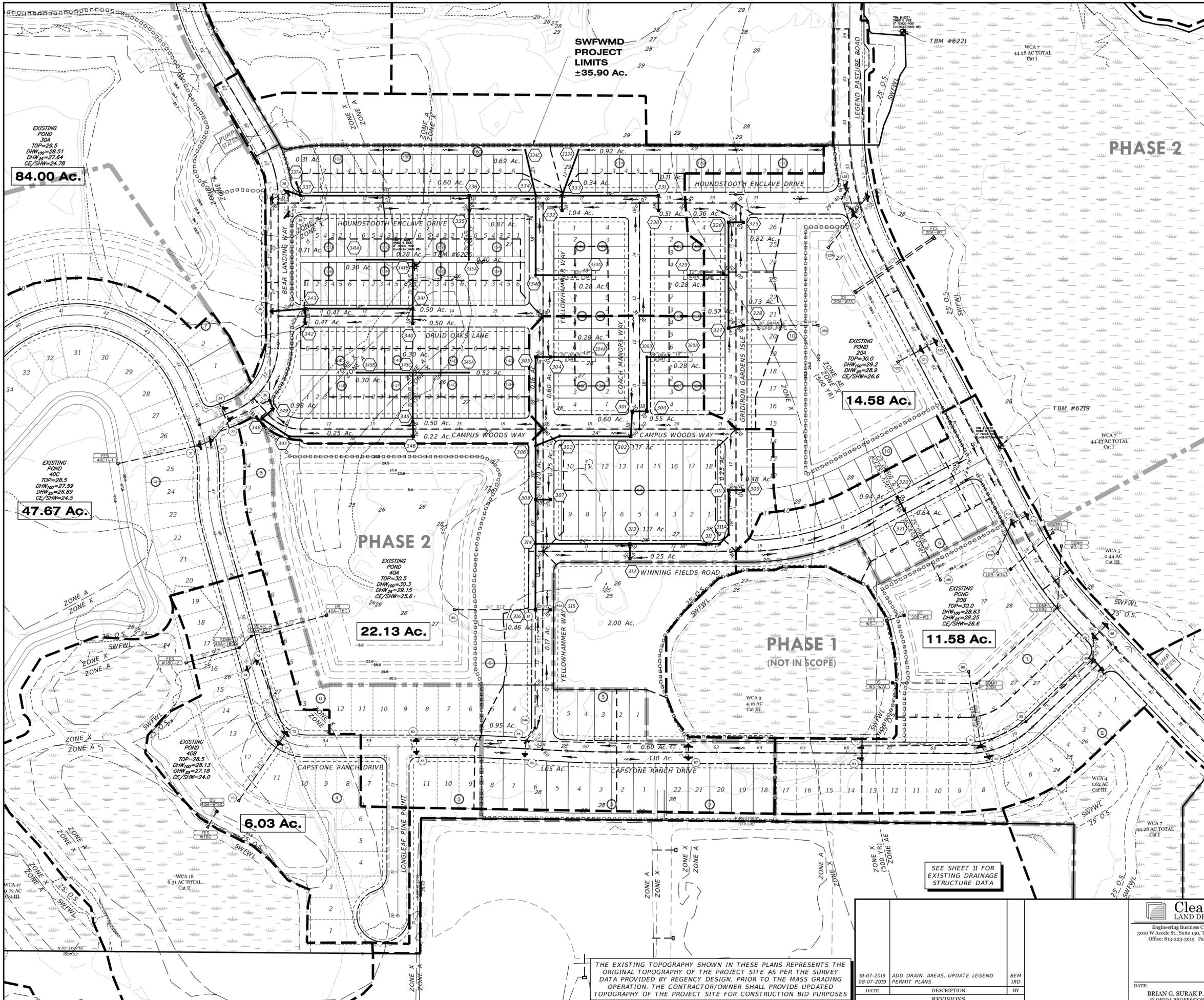
PONDS SHOWN AS "EXISTING" WERE PERMITTED UNDER PASCO COUNTY PERMIT LRG 15-039, 4/22/18 AND ARE SHOWN ON THE PLANS DATED 4/27/16 TITLED "MITCHELL 54 WEST MASS GRADING" PREPARED BY REGENCY DESIGN & ENGINEERING, INC. THIS WORK IS TO BE COMPLETED UNDER THE CONTRACT FOR THESE CONSTRUCTION PLANS. ROADS, STORMWATER COLLECTION, UTILITIES AND SERVICES SHOWN HERE AS "EXISTING" WERE PERMITTED UNDER PASCO COUNTY UNDER PERMIT PSP17-004, DATED JULY 6, 2017 AND ARE SHOWN ON THE PLANS DATED FEBRUARY 2017 TITLED "MITCHELL 54 WEST MASTER INFRASTRUCTURE" PREPARED BY REGENCY DESIGN & ENGINEERING, INC. REFER TO THE CURRENT PLANS BY REGENCY DESIGN & ENGINEERING, INC. FOR ANY MODIFICATIONS TO THE PREVIOUSLY PERMITTED DESIGN.

- Elevations refer to the North American Vertical Datum of 1988 (NAVD88).
- This site appears to lie within flood zones "A", "AE", and "X" according to Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Community Panel 120230 0360 F Map No. 12101C0360F (dated September 26, 2014)

THE EXISTING TOPOGRAPHY SHOWN IN THESE PLANS REPRESENTS THE ORIGINAL TOPOGRAPHY OF THE PROJECT SITE AS PER THE SURVEY DATA PROVIDED BY REGENCY DESIGN, PRIOR TO THE MASS GRADING OPERATION. THE CONTRACTOR/OWNER SHALL PROVIDE UPDATED TOPOGRAPHY OF THE PROJECT SITE FOR CONSTRUCTION BID PURPOSES

SEE SHEET 11 FOR EXISTING DRAINAGE STRUCTURE DATA

Clearview LAND DESIGN, P.L. Engineering Business C.A. No.: 28858 3010 W Azele St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975		PRE-DEVELOPMENT DRAINAGE MAP JOB NO. LNH-MR-014 MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS	
DESIGN: MELVIN	PREPARED FOR: LENNAR HOMES	DATE: 10-07-2019	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet
FILE: DA-PRE	SHEET 37 OF 45 SHEETS		



LEGEND

EXISTING	PROPOSED	DESCRIPTION
		STORM DRAINAGE STRUCTURE & PIPE PIPE SIZE IN INCHES
		STRUCTURE NO.
		SPOT ELEVATION
		PROPOSED PROFILE GRADE ELEVATION
		CONTOUR
		DIRECTION OF SURFACE FLOW
		STAKED EROSION CONTROL
		FEMA FLOOD ZONE BOUNDARY
		BASE FLOOD ELEVATION (FT)
		WETLAND LINE
		25' OFFSET FROM WETLAND LINE
		WETLAND CONSERVATION AREA PASCO WETLAND CATEGORY
		WETLAND AREAS
		PROJECT BOUNDARY
		PLAN & PROFILE SHEET NO. REFERENCE
		ROADWAY AUGER LOCATION
		5' WIDE X 4' THK. CONCRETE SIDEWALK TO BE INSTALLED BY SITE DEVELOPER
		FUTURE IMPROVEMENTS NOT WITHIN PHASE 2 SCOPE
		IMPROVEMENTS NOT WITHIN PHASE 2 SCOPE. REFER TO MASS GRADING, MASTER INFRASTRUCTURE, AND PHASE 1 PLANS BY REGENCY DESIGN & ENGINEERING
		1.00 AC.
		MAJOR DRAINAGE AREA
		0.10 AC. MINOR DRAINAGE AREA
		MINOR DRAINAGE AREA

WETLAND IMPACTS PREVIOUSLY PERMITTED UNDER PASCO COUNTY PERMIT LRG 15-039, 4/22/18 AND SWFWMD PERMIT NO. 43013055.007 AND ARE SHOWN ON THE PLANS DATED 4/27/16 TITLED "MITCHELL 54 WEST MASS GRADING" PREPARED BY REGENCY DESIGN & ENGINEERING, INC.

PONDS SHOWN AS "EXISTING" WERE PERMITTED UNDER PASCO COUNTY PERMIT LRG 15-039, 4/22/18 AND ARE SHOWN ON THE PLANS DATED 4/27/16 TITLED "MITCHELL 54 WEST MASS GRADING" PREPARED BY REGENCY DESIGN & ENGINEERING, INC. THIS WORK IS TO BE COMPLETED UNDER THE CONTRACT FOR THESE CONSTRUCTION PLANS. ROADS, STORMWATER COLLECTION, UTILITIES AND SERVICES SHOWN HERE AS "EXISTING" WERE PERMITTED UNDER PASCO COUNTY UNDER PERMIT PSP17-004, DATED JULY 6, 2017 AND ARE SHOWN ON THE PLANS DATED FEBRUARY 2017 TITLED "MITCHELL 54 WEST MASTER INFRASTRUCTURE" PREPARED BY REGENCY DESIGN & ENGINEERING, INC. REFER TO THE CURRENT PLANS BY REGENCY DESIGN & ENGINEERING, INC. FOR ANY MODIFICATIONS TO THE PREVIOUSLY PERMITTED DESIGN.

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SEE SHEET 11 FOR EXISTING DRAINAGE STRUCTURE DATA

Clearview LAND DESIGN, P.L. Engineering Business C.A. No.: 28858 3010 W Azele St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975		POST-DEVELOPMENT DRAINAGE MAP JOB NO. LNH-MR-014 MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS DESIGN: MELVIN DRAWN: DROOR DATE: 10-07-2019 FILE: DA-POST	
10-07-2019 ADD DRAIN. AREAS, UPDATE LEGEND BEM JRD 08-07-2019 PERMIT PLANS JRD		PREPARED FOR: LENNAR HOMES ELEVATIONS based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet SHEET 38 OF 45 SHEETS	

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STORM WATER POLLUTION PREVENTION PLAN NOTES

Contained on these plans and within the following notes is a Storm Water Pollution Prevention Plan (SWPPP) which has been developed by Clearview Land Design in accordance with the Florida Department of Environmental Protection's (FDEP) "National Pollutant Discharge Elimination System" (NPDES) Generic Permit for Stormwater Discharge from Large and Small Construction Activities.

The following entities are identified as team members of "SWPPP": Clearview Land Design, the Developer as identified in the title box of these plans, and the site contractor and his sub-contractors. Each team member has specific responsibilities and obligations. In general, all team members, with regard to their involvement and responsibilities on the project, are to implement all necessary storm water management controls to assure compliance with the NPDES Generic Permit for Storm Water Discharges from Construction Activities, the Southwest Florida Water Management District Permit, the applicable local governing agency (i.e. Hillsborough County, Pasco County, etc.) and the guidelines listed in the SWPPP. The duties and responsibilities of the team members as they pertain to the SWPPP are as follows:

CLEARVIEW LAND DESIGN, P.L.

A. Develop Surface Water Management Plan including, but not limited to, retention/detention ponds, control structures, general erosion control methods and locations and stabilization criteria. This design is included within these construction plans and the following notes and instructions.

B. Submit and obtain the necessary design related storm water permits from the Florida Department of Environmental Protection, the Southwest Florida Water Management District and other applicable governmental bodies.

CONTRACTOR

A. Upon notification by the developer of his intent to commence construction, submit a Notice of Intent to the FDEP on behalf of the developer and copy the contractor including SWPPP certification and copy of the permit.

B. Submit to SWFWMD and the operator of the municipal separate storm water system, if applicable, a letter of construction commencement.

C. A. Ensure each subcontractor affected by the SWPPP must certify that they understand and shall comply with the NPDES permit and SWPPP. A record of these certifications shall be maintained by the contractor on site.

D. B. During construction, assure compliance with the designed Storm Water Pollution Prevention Plans and the NPDES Generic Permit for Storm Water Discharges from Large and Small Construction Activities.

E. Maintain a copy of the construction plans, which include the Storm Water Pollution Prevention Plan, the NOI, and all inspection reports and certifications on site.

F. Undertake all reasonable Best Management Practices (BMPs) to assure that silted or otherwise polluted storm water is not allowed to discharge from the site during all phases of construction. Stabilization BMPs that may be used include: temporary or permanent seeding, mulching, geotextiles, sodding, vegetative buffer strips, protection of trees and preservation of mature vegetation. Structural erosion and sediment control BMPs that may be used include: straw bale dikes, silt fences, earth dikes, brush barriers, drainage swales, check dams, subsurface drain, pipe slope drain, level spreaders, storm drain inlet protection, outlet protection, sediment traps, and temporary sediment basins. Detention ponds may also be used as temporary sediment basins. Additional BMPs that may need to be implemented include: providing protected storage areas for chemicals, paints, solvents, fertilizers, and other potentially toxic materials. Providing waste receptacles at convenient locations and providing regular collection of wastes, including building material wastes. Minimizing off-site tracking of sediments. Making adequate preparations, including training and equipment to contain spills of oil and hazardous materials. Complying with applicable state or local waste disposal, sanitary sewer or septic system regulations and the use of appropriate pollution prevention measures for allowable non-storm water components of discharge.

G. Notify Clearview Land Design and the developer in writing of any non-storm water pollution sources which are being stored, or otherwise used during the construction of the project, i.e., fertilizers, pesticides, other chemicals. This notification should be accompanied with the contractor's design and methods to prevent pollution run-off from these sources.

H. Develop a maintenance and inspection plan which includes, but is not limited to the following:

A. The specific areas to be inspected and maintained that includes all the disturbed areas and material storage areas of the site.

B. The erosion and sediment controls identified in the SWPPP to be maintained and inspected and those additional controls that the contractor deems necessary.

C. Maintenance procedures.

D. The procedure to follow if additional work is required or whom to call.

E. Inspections and maintenance forms.

F. The personnel assigned to each task.

The following shall be inspected a minimum of once a week or within 24 hours after 0.50 inches of rainfall:

Stabilization measures (once a month if fully stabilized).

Structural controls.

Discharge points.

Construction entrances and exits.

Areas used for storage of exposed materials.

An inspection form shall be completed for each inspection. Any permit violations should be noted and corrective measures shall be taken no later than 7 days after the inspection occurred. If revisions to the SWPPP are needed, a report form for changes in the SWPPP shall be completed and a copy sent to Clearview Land Design, P.L. The original shall be kept on-site as documentation of the change. If the inspection passes, a certification that the facility is in compliance with the SWPPP and the NPDES permit must be signed by a duly authorized representative of the principal executive official of the operator of the SWPPP with one of the following qualifications:

- Has successfully completed the Florida Stormwater, Erosion and Sediment Control Inspector Training Program.
- Successfully completed a similar training program.
- Has enough practical on the job training to be qualified to perform the inspections.

Retain inspection reports and certifications for at least three years.

I. Site stabilization measures shall be initiated as soon as practical but in no case more than 7 days, in portions of the site where construction activities have temporarily or permanently ceased.

J. Complete and submit a Notice of Termination and certification for developer. The NOT's shall be submitted no more than 30 days after

(a) completion of the project and final stabilization of the site or when responsibility for the site has ended. Final stabilization as defined by EPA is when all soil disturbing activities at the site have been completed and a uniform (e.g. evenly distributed, without large bare areas) perennial vegetative cover with a density of 70% of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures. As an alternative, equivalent permanent stabilization measures (such as riprap, gabions, or geotextiles) may be employed. The client shall notify Clearview Land Design when one of these criteria has been met

H. Releases in Excess of Reportable Quantities.

1. The discharge of hazardous substances or oil in the stormwater discharges from a facility or activity shall be prevented or minimized in accordance with the applicable stormwater pollution prevention plan for the facility or activity. This permit does not relieve the operator of the reporting requirements of 40 CFR part 117 and 40 CFR part 302. Where a release containing a hazardous substance in an amount equal to or in excess of a reporting quantity established under either 40 CFR 117 or 40 CFR 302, occurs during a 24 hour period:

a. The operator is required to notify the State Warning Point (800-200-0519 or 850-433-9011) as soon as he or she has knowledge of the discharge;

b. The operator shall submit within 14 calendar days of knowledge of the release a written description of: the release including the type and estimate of the amount of material released, the date that such release occurred, the circumstances leading to the release, and the remedial steps to be taken, to the Florida Department of Environmental Protection, NPDES Stormwater Section, Mail Station 2500, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and

c. The stormwater pollution prevention plan required under Part V of this permit must be modified within 14 calendar days of knowledge of the release to: provide a description of the release, the circumstances leading to the release, and the date of the release. In addition, the plan must be reviewed to identify measures to prevent the recurrence of such releases and to respond to such releases, and the plan must be modified where appropriate.

2. This permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill.

DEVELOPER

A. Notify Clearview and the Contractor of your intent to commence construction. Sign the Notice of Intent form as operator of the storm water discharge facility and permittee and coordinate with the Contractor for submittal to FDEP.

B. Sign a Certification of Storm Water Pollution Prevention Plan and provide a copy to Clearview Land Design, P.L.

C. Notify Clearview when the submittal of a Notice of Termination as defined under Part J of the Clearview Land Design section of the SWPPP Notes.

PRE-DEVELOPED SITE INFORMATION:

1. Total site acreage: ±94.941 ACRES (PHASE 2)

2. Land use: PASTURE

3. Vegetation: GRASS WITH SCATTERED AREAS OF DENSE TREES ANCLOTE RIVER

4. Receiving waters or municipal separate storm water system: DUCK SLOUGH

5. 2 Year/24 Hour rainfall depth: 4.5"

6. Soil types: VARIES - REFER TO GEOTECHNICAL REPORT FOR COMPLETE LIST

PROJECT INFORMATION:

1. Project type: Residential

2. Anticipated construction sequence is as follows:

- Complete erosion control installation
- Clearing and grubbing
- Earthwork activities
- Storm water system construction
- Utility construction
- Base and pavement construction
- Final stabilization

The BMPs listed in Part D of the Contractor section of the SWPPP shall be considered during all phases of construction.

3. Anticipated start date: SPRING 2020

4. Anticipated completion date: SPRING 2021

5. Total acres disturbed: ±35.90 Ac. ± (SILT FENCE LIMITS)

6. Pre-developed "C" factor: 0.55

7. Post-developed "C" factor: 0.80

8. The storm water management system, upon completion of construction and appropriate certification and as-built submittals will be operated and maintained by CDD (UNLESS OTHERWISE NOTED)

9. The potential source of pollution from this project is on-site development and construction activity.

OWNER'S INSTRUCTIONS FOR MAINTENANCE AND INSPECTION OF STORMWATER FACILITIES

The entire stormwater system should be inspected on at least a semi-annual basis. This should include a visual inspection of the pond, pond banks, bleed-down orifices, other control structures, and discharge pipes. These should be kept free of debris and cleaned on a frequency as required to keep them functional, as designed. Mowing/clearing around the structures may be required to prevent vegetation from clogging them.

Wetland plants, if intentionally installed, should be monitored and maintained as required on the approved construction plans. Areas of littoral shelving, which are required to be vegetated but not intentionally planted, should not be cleared of the wetland plants. These areas should have as high a plant coverage as possible, for maximum water filtration.

Sediment sumps, if designed and installed, should have sediment removed as necessary to allow them to efficiently remove suspended particles. They should be re-dug to the original design specifications, if silted in.

For percolation treatment ponds/swales, the owner of the facility shall inspect the pond bottom periodically after heavy rainfall events to check for persistent ponding or pooling of water. All large debris shall be removed and disposed of elsewhere. If prolonged ponding persists, i.e., in excess of 72 hours, the owner shall rake or scarify the surface. If required, the soil in the area of ponding shall be removed and replaced with clean sandy, non-cohesive soils.

Please check the construction plans to see if written reports on monitoring or plant survival rates are required to be sent to any reviewing agencies. Written notes should always be kept which describe maintenance activities undertaken during each inspection.

Specific conditions of all permits may require additional maintenance activities above and beyond those outlined above. Please be aware of all permit conditions as issued by regulatory agencies to ensure permit compliance.

NOTE: CONTRACTOR SHALL INSPECT EROSION CONTROL DAILY (INCLUDING BUT NOT LIMITED TO TYPICAL OUTFALLS TO OFFS). CORRECTIVE ACTION SHALL BE TAKEN IMMEDIATELY TO REPAIR OR REPLACE AS NEEDED.

GENERAL EROSION AND TURBIDITY CONTROL NOTES

1. The Site Subcontractor shall be responsible for installation and maintenance of all erosion and turbidity controls and the quality and quantity of offsite or wetland discharges.

2. Prior to construction, the Site Subcontractor is responsible for having his dewatering plan and turbidity control plan approved by the applicable reviewing agencies. Refer to the project's permit approvals and permit conditions for agencies requiring such review and approval. Questions concerning appropriate techniques should be addressed to those agencies and/or discussed with the project engineer and owner.

3. The appropriate turbidity and erosion control methodologies selected by the Site Subcontractor for this project should be made following assessment of the plans and project site specific factors and after consultations as needed with the project engineer and appropriate agencies.

4. The Site Subcontractor will be responsible for obtaining any and all necessary permits for such activity; several factors to consider are listed below:
- Clay content in excavated materials and/or permeabilities rates
 - Depth of cut in ponds, trenches, or utility lines
 - Ambient ground water levels
 - Actual rainfall amounts and time of year relative to normal rainy season
 - Proximity to wetlands, water bodies or offsite properties
 - "Class" designation of receiving water bodies (i.e., Outstanding Florida Waters, shellfish harvesting areas, etc.)
 - Density, type, and proximity of upland vegetation to be retained during construction (for use as possible filtration areas)
 - Fill height relative to natural grade and length and steepness of the proposed slopes
 - Existing topography and directions of surface flow
 - Type of equipment used
 - Project type
 - Duration of construction activities
 - Separation distance of onsite ponds
 - Ambient quality of surface and groundwater
 - Temporary stockpile locations and heights

5. At the onset of construction, the Site Subcontractor, as the party responsible for implementation of the erosion and sediment control plan, shall assess the above described conditions and factors with respect to relative cost effectiveness and select the appropriate methods of protection. A fairly extensive list of techniques are presented below but it must be stressed that any or all of the following may be necessary to maintain water quality and quantity standards.

6. The construction sequencing should be thought out in advance of initiation to provide adequate protection of water quality.

7. Any offsite disturbance shall be restored to the Pre or better condition.

- Discharges of water quantities which affect offsite properties or may damage wetlands are also prohibited by regulating agencies.
- Discharges which exceed 29 NTU's over the background levels are in violation of state water quality standards.

8. The erosion and turbidity control measures shown herein are the minimum required for agency approval. Additional control and measures may be required due to the Site Subcontractor's construction sequence & unforeseen weather conditions. Any additional measures deemed necessary by the Site Subcontractor shall be included in the lump sum bid with no extras for materials and labor allowed.

9. Hay bales or silt screens shall be installed prior to land clearing to protect water quality and to identify areas to be protected from clearing activities and maintained for the duration of the project until all soil is stabilized.

10. Floating turbidity barriers shall be in place in flowing systems or in open water lake edges prior to initiation of earthwork and maintained for the duration of the project until all soil is stabilized.

11. No clay material shall be left exposed in any stormwater storage facility.

11.1. If clay or sandy-clays are encountered during stormwater storage excavation the Site Subcontractor shall notify the Engineer immediately before proceeding with further excavation.

11.2. If the Engineer of Record has determined that such soils are non-cohesive and must be excavated to meet permit and design conditions, excavation may proceed after obtaining written authorization from the appropriate governing agency.

11.3. If said soils are left exposed at the permitted and designed depth, the Site Subcontractor shall over-excavate the pond's bottom and side slopes by a minimum of twenty-four (24") inches and backfill with clean sands to help prevent suspension of fine particles in the water column.

12. The installation of temporary erosion control barriers shall be coordinated with the construction of the permanent erosion control features to the extent necessary to assure effective and continuous control of erosion and water pollution throughout the life of the construction phase.

13. The type of erosion control barriers used shall be governed by the nature of the construction operation and soil type that will be exposed. Silty and clayey material may require solid sediment barriers to prevent turbid water discharge, while sandy material may need only silt screens or hay bales to prevent erosion. Floating turbidity curtains should generally be used in open water situations. Diversion ditches or swales may be required to prevent turbid stormwater runoff from being discharged to wetlands or other water bodies. It may be necessary to employ a combination of barriers, ditches, and other erosion/turbidity control measures if conditions warrant.

14. Where pumps are to be used to remove turbid waters from construction areas, the water shall be treated prior to discharge to the wetlands. Treatment methods include, for example, turbid water being pumped into grassed swales or appropriate upland vegetated areas (other than upland preservation areas and wetland buffers), sediment basins, or confined by an appropriate enclosure such as turbidity barriers or low berms, and kept confined until turbidity levels meet State Water Quality Standards.

15. The Permittee shall schedule his operations such that the area of unprotected erodible earth exposed at any one time is not larger than the minimum area necessary for efficient construction operation, and the duration of exposed, uncompleted construction to the elements shall be as short as practicable. Clearing and grubbing shall be so scheduled and performed such that grading operations can follow immediately thereafter. Grading operations shall be so scheduled and performed that permanent erosion control features can follow immediately thereafter if conditions on the project permit.

16. Water derived from various dewatering methods should be passed through sufficiently wide areas of existing upland vegetation to filter out excess turbidity. If this is not sufficient, the water shall be retained in previously constructed permanent stormwater ponds or else retained in temporary sedimentation basins until the clarity is suitable to allow for its discharge. Plugging the outfalls from completed stormwater ponds may be needed to avoid discharge. However, such situations should be monitored closely to preclude berm failure if water levels rise too high.

17. Water can be transported around the site by the use of internal swales or by pumps and pipes.

18. Sheet flow of newly filled or scraped areas may be controlled or contained by the use of silt fences, diversion swales, interceptor ditches or low berms. Flow should be directed toward areas where sediments can sufficiently settle out.

19. Exposed soils shall be stabilized as soon as possible, especially slopes leading to wetlands. Stabilization methods include solid sod, seeding and mulching or hydromulching to provide a temporary or permanent grass cover mulch blankets, filter fabrics, etc., can be employed to provide vegetative cover.

20. Energy dissipaters (such as rip rap, a gravel bed, hay bales, etc.) shall be installed at the discharge point of pipes or swales if scouring is observed.

21. Attempt to install roadway curb and gutters as soon as possible to reduce the surface area for erosion to occur.

22. Implement storm drain inlet protection (hay bales or gravel) to limit sedimentation within the stormwater system. Perform inspections and periodic cleaning of sediments which wash out into the streets until all soil is stabilized.

23. Water discharge velocities from impounded areas and temporary sedimentation basins shall be restricted to avoid scouring in receiving areas.

24. If water clarity does not reduce to state standards rapidly enough in holding ponds, it may be possible to use chemical agents such as alum to flocculate or coagulate the sediment particles.

25. Hay bales, silt screens, or gravel beds can be added around the pipe or swale discharge points to help clarify discharges. Spreader swales may help dissipate cloudy water prior to contact with wetlands.

26. All fuel storage areas or other hazardous storage areas shall conform to accepted state or federal criteria for such containment areas.

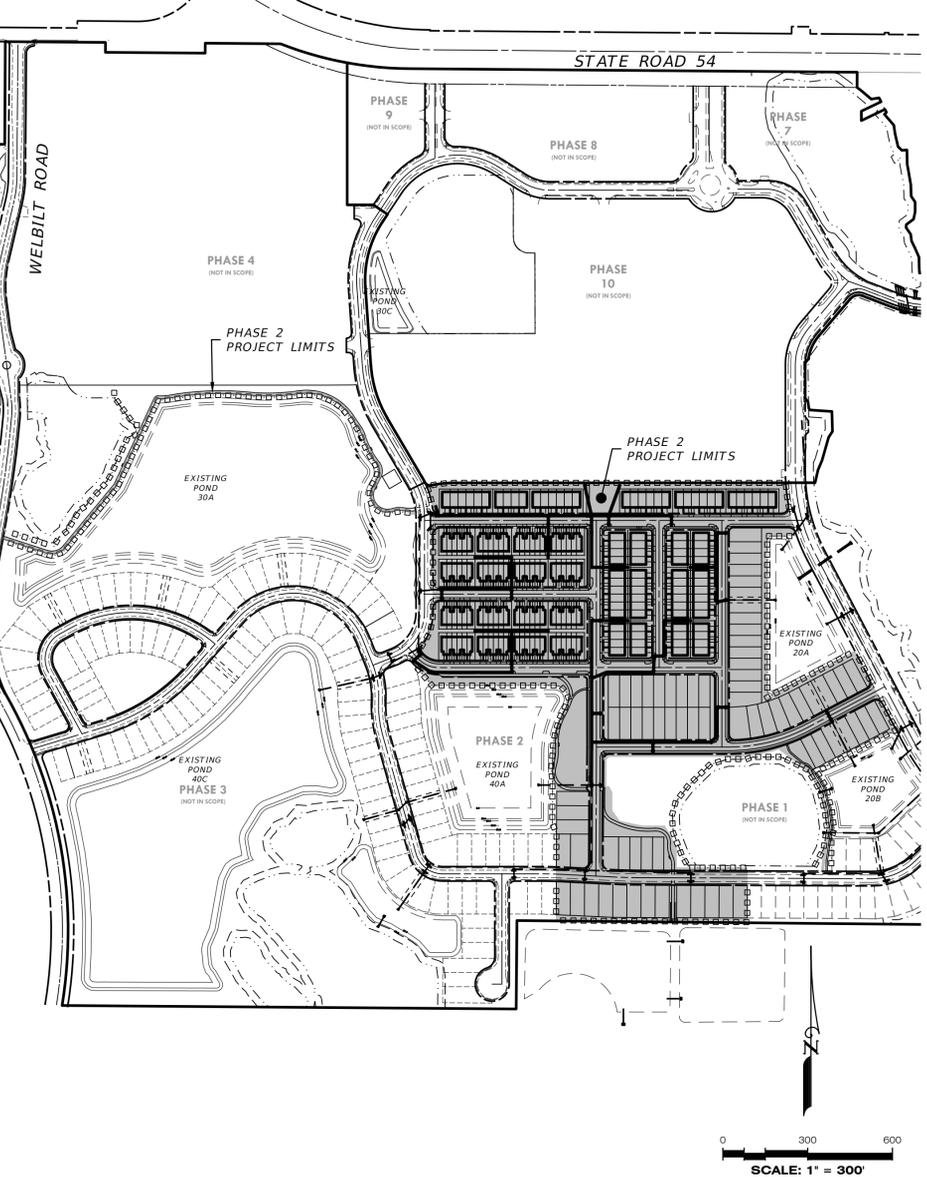
27. Vehicle or equipment washdown areas will be sufficiently removed from wetlands or offsite areas.

28. Fugitive dust controls (primarily by using water spray trucks) shall be employed as needed to control windborn emissions.

29. If the above controls remain ineffective in precluding release of turbid water, especially during pond or utility line dewatering, then the contractor may be compelled to use a vertical dewatering system such as well points or sock drains to withdraw groundwater which may already be clear enough to allow for direct discharge to wetlands.

30. Ongoing inspections and periodic maintenance by the Site Subcontractor shall occur daily (at a minimum) to insure the above methods are working suitably. Corrective action must be taken immediately to repair or replace any damaged BMPs to ensure the above methods are working properly.

31. Site Subcontractors are required to obtain and thoroughly review The Florida Development Manual: A Guide to Sound Land and Water Management, which was developed by the State of Florida Department of Environmental Protection in 1988. This provides fairly in-depth discussions of recommended techniques and also provides specific design and technical standards. A copy of this document is available for review at Clearview Land Design, P.L.



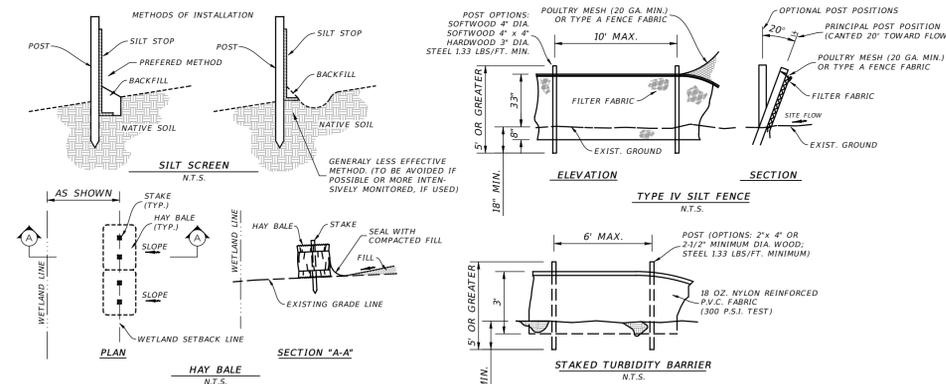
CSWMP SEQUENCING NOTES

CSWMP PHASE 1 - PERIMETER CONTROLS

- Install silt fence(s) pertinent to the current limits of construction. Clear only those areas necessary to install silt fence(s).
- Prepare temporary parking and storage area.
- Stop all activities and contact the Civil Engineer and Agency Representatives to perform an inspection.

CSWMP PHASE 2 - SITE CONSTRUCTION

- Begin clearing and grubbing the site in those areas pertinent to the current limits of construction.
- Begin grading the site in those areas pertinent to the current limits of construction.
- Proceed with site work. Install utilities, underdrains, storm sewers, curb and gutter, etc. pertinent to the limits of construction. Exposed soils shall be stabilized as soon as possible.
- All disturbed areas shall be permanently stabilized. Stabilization methods include solid sod, seeding and mulching or hydromulching to provide a temporary or permanent grass cover. Mulch blankets, filter fabrics, etc., can be employed to provide vegetative cover.



EROSION CONTROL DETAILS

EITHER METHOD OR A COMBINATION OF BOTH IS ACCEPTABLE

NOTE: THE EROSION BARRIERS, AS SHOWN, ARE NOT TO BE CONSTRUED TO MEAN THAT THEY ARE ALL THAT MAY BE REQUIRED. THE CONTRACTOR IS TO TAKE WHATEVER MEASURES NECESSARY TO CONTROL EROSION THROUGHOUT THE PROJECT.

DATE	DESCRIPTION	BY
10-07-2019	CLARIFY PHASE 2 LIMITS	BEM
08-07-2019	PERMIT PLANS	JRD
	REVISIONS	

Clearview LAND DESIGN, P.L.
 Engineering Business C.A. No.: 28858
 3010 W Azele St., Suite 150, Tampa, Florida 33609
 Office: 813-223-3919 Fax: 813-223-3975

DATE: **BRIAN G. SURAK P.E. NO. 50964 FLORIDA PROFESSIONAL ENGINEER**

SURFACE WATER MANAGEMENT PLAN

JOB NO. **LNH-MR-014**

DESIGN **MELVIN**

DRAWN **DROR**

DATE **10-07-2019**

FILE **CSWMP**

MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS

PREPARED FOR: **LENNAR HOMES**

Elevations based on North American Vertical Datum 1988 (NAVD 88)
 Conversion from NAVD 88 to NGVD 29 = +0.84 Feet

SHEET 39 OF 45 SHEETS

MATCHLINE SEE PAGE 43

FUTURE PHASE NOT INCLUDED

REQUIRED TREES TO MEET MPUD CONDITION OF 1 CANOPY TREE PER 60' O.C. ADJACENT TO MULTI-USE TRAIL. TREES SHOWN FOR REFERENCE AND MAY BE FIELD ADJUSTED BASED ON FINAL WALK LOCATION SHOWN IN CONSTRUCTION PLANS FOR ADJACENT LAND.

TRAIL ALIGNMENT CONCEPTUAL AND SUBJECT TO CHANGE WITH FINAL DESIGN OF PARK SITE. TRAIL AND LANDSCAPE MAY BE FIELD ADJUSTED.

REQUIRED PER LDC 905.2.D.6.
1 TREE PER 50 LF
330 LF = 7 REQ. TREES

REQUIRED TREES TO MEET MPUD CONDITION OF 1 CANOPY TREE PER 60' O.C. ADJACENT TO MULTI-USE TRAIL.

REQUIRED PER LDC 905.2.D.6.
1 TREE PER 50 LF
500 LF = 10 REQ. TREES

REQUIRED TREES TO MEET MPUD CONDITION OF 1 TREE PER 60' O.C. ADJACENT TO MULTI-USE TRAIL.

MATCHLINE SEE INSET B THIS SHEET



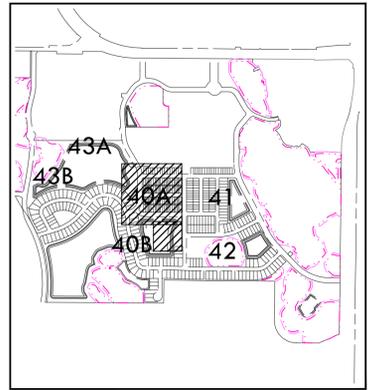
HOUNDSTOOTH ENCLAVE DRIVE

DRUID OAKS LANE

CAMPUS WOODS WAY

BEAR LANDING WAY

MATCHLINE SEE PAGE 41



KEYMAP NOT TO SCALE

- LEGEND**
- WETLAND LINE
 - - - - WETLAND BUFFER
 - - - - PROPERTY (PARCEL) BOUNDARY
 - [Hatched Box] WETLAND HATCH
 - [Solid Circle] REQUIRED TREE TO MEET LDC REQUIREMENT
 - [Dotted Circle] REQUIRED TREE TO MEET MPUD CONDITION #13.
 - [Hatched Box] BUFFER LANDSCAPE - SEE TYPICAL PLAN

MATCHLINE SEE INSET A THIS SHEET

POND 40A (EXISTING)

TRAIL ALIGNMENT CONCEPTUAL AND SUBJECT TO CHANGE WITH FINAL DESIGN OF PARK SITE. TRAIL AND LANDSCAPE MAY BE FIELD ADJUSTED.

BENCH LOCATION TYP. LOCATED MIN. OF EVERY 1/4 MILE OF MULTI-USE TRAIL. LOCATIONS MAY BE FIELD ADJUSTED TO PROVIDE BEST VIEWS AND MAXIMIZE SHADE.

REQUIRED PER LDC 905.2.D.6.
1 TREE PER 50 LF
330 LF = 7 REQ. TREES

REQUIRED TREES TO MEET MPUD CONDITION OF 1 TREE PER 60' O.C. ADJACENT TO MULTI-USE TRAIL.

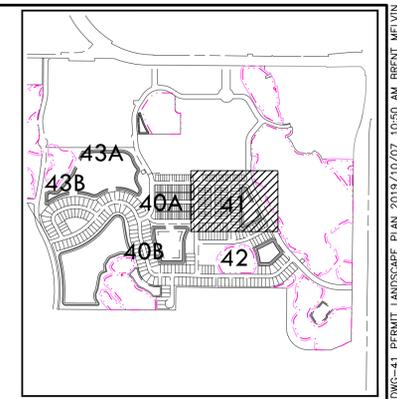
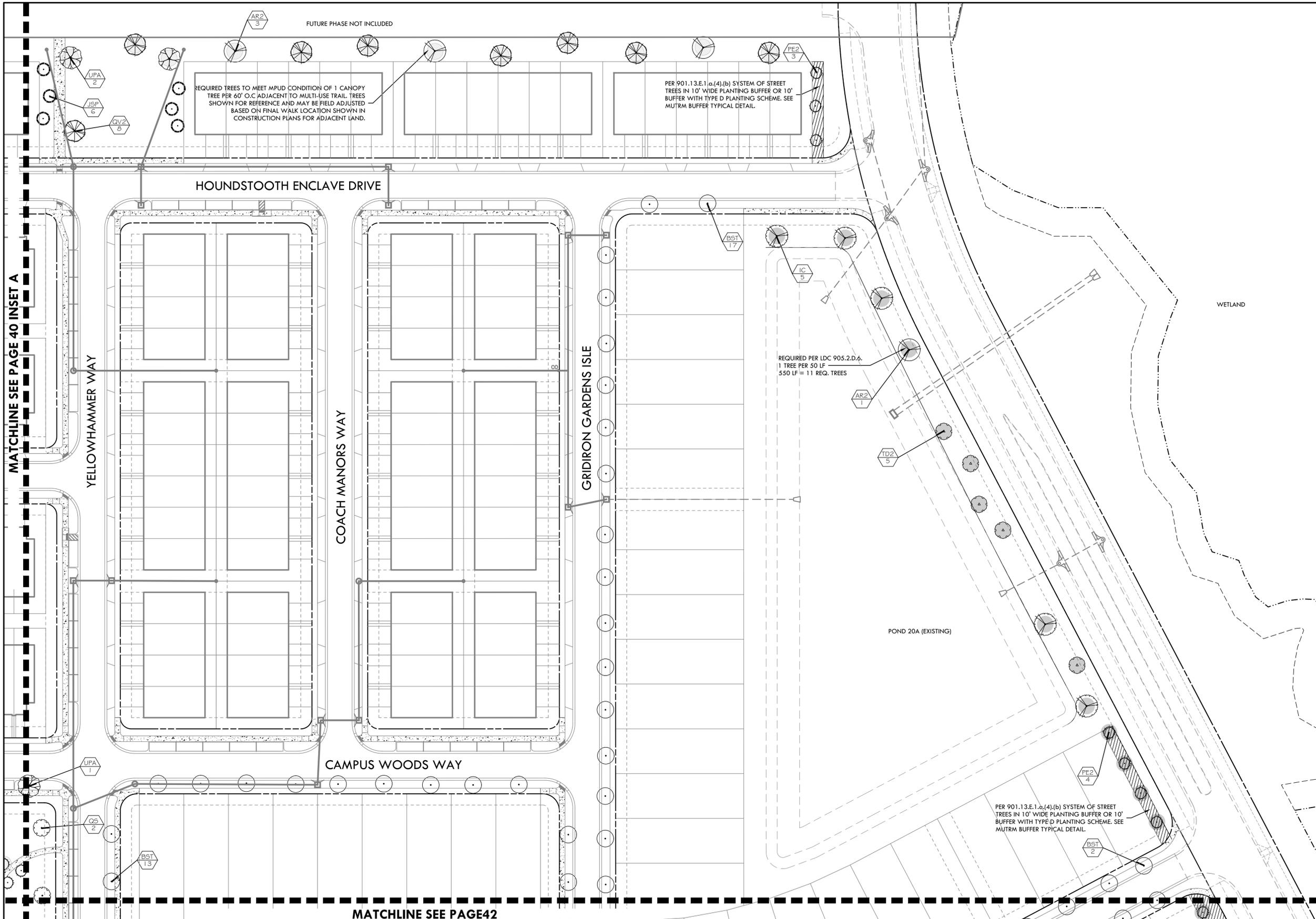
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MATCHLINE SEE PAGE 42

^ INSET A

<p>09-18-2019 REVISED PER COUNTY COMMENTS NG</p> <p>08-07-2019 PERMIT PLANS JRD</p>		<p>Clearview LAND DESIGN, P.L. Engineering Business C.A. No.: 28858 3010 W. Azeele Street, Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975</p>	<p>PERMIT LANDSCAPE PLAN</p>	
<p>DATE DESCRIPTION BY</p> <p>REVISIONS</p>			<p>JOB NO. LNH-MR-029</p> <p>DESIGN MCALEER</p> <p>DRAWN DROOR</p> <p>DATE 10-07-2019</p> <p>FILE PLP</p>	<p>MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS</p> <p>PREPARED FOR: LENNAR HOMES</p> <p>Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet</p> <p>SHEET 40 OF 45 SHEETS</p>

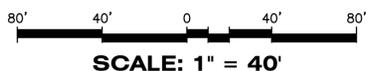
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- LEGEND
- WETLAND LINE
 - - - WETLAND BUFFER
 - - - PROPERTY (PARCEL) BOUNDARY
 - ▨ WETLAND HATCH
 - REQUIRED TREE TO MEET LDC REQUIREMENT
 - REQUIRED TREE TO MEET MPUD CONDITION #13.
 - ▨ BUFFER LANDSCAPE - SEE TYPICAL PLAN

MATCHLINE SEE PAGE 40 INSET A

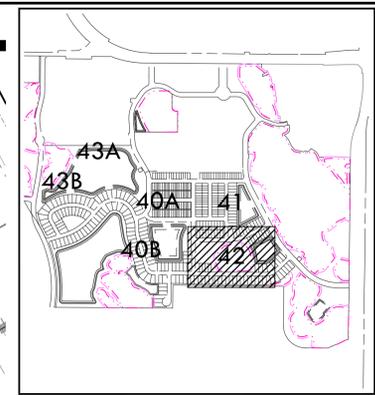
MATCHLINE SEE PAGE 42



Clearview LAND DESIGN, P.L. <small>Engineering Business C.A. No.: 28858 3010 W. Azule Street, Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975</small>			PERMIT LANDSCAPE PLAN JOB NO. LN1-MR-029 DESIGN MCALEER DRAWN DROOR DATE 10-07-2019 FILE PLP	
DATE: HANNAH D. MCALEER RLA# 6667074 FLORIDA REGISTERED LANDSCAPE ARCHITECT			MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS PREPARED FOR: LENNAR HOMES Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet	
09-18-2019 REVISED PER COUNTY COMMENTS NG 08-07-2019 PERMIT PLANS JRD DATE DESCRIPTION BY REVISIONS			SHEET 41 OF 45 SHEETS	

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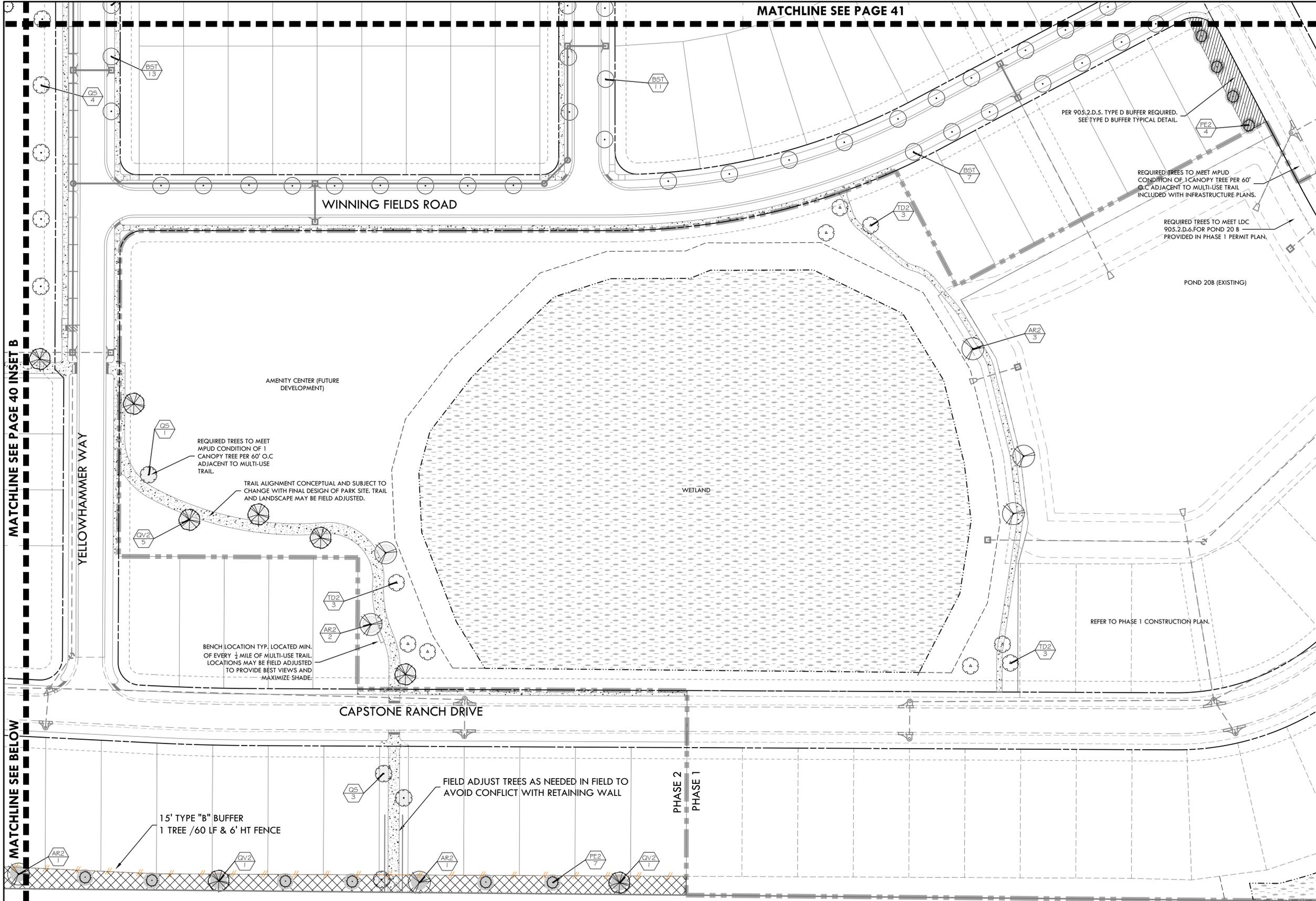
MATCHLINE SEE PAGE 41



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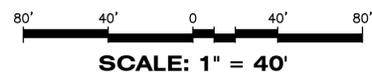
LEGEND

- WETLAND LINE
- WETLAND BUFFER
- PROPERTY (PARCEL) BOUNDARY
- WETLAND HATCH
- REQUIRED TREE TO MEET LDC REQUIREMENT
- REQUIRED TREE TO MEET MPUD CONDITION #13.
- BUFFER LANDSCAPE - SEE TYPICAL PLAN



MATCHLINE SEE PAGE 40 INSET B

MATCHLINE SEE BELOW



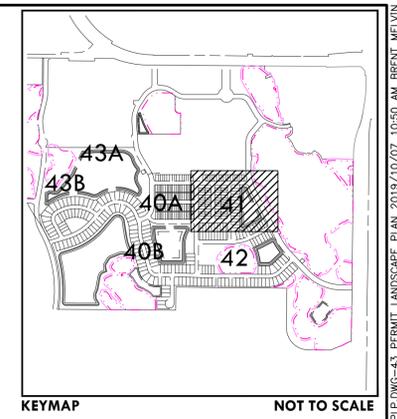
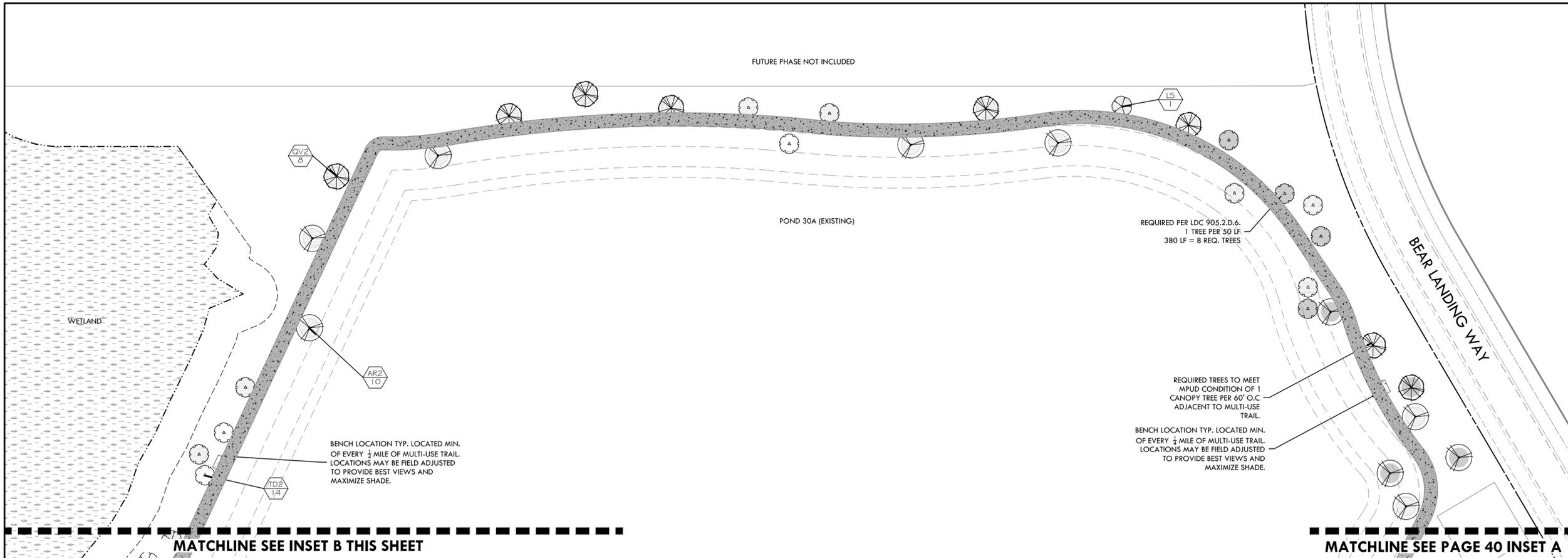
DATE	DESCRIPTION	BY
09-18-2019	REVISED PER COUNTY COMMENTS	NG
08-07-2019	PERMIT PLANS	JRD
	REVISIONS	

Clearview
LAND DESIGN, P.L.
Engineering Business C.A. No.: 28858
3010 W. Azalee Street, Suite 150, Tampa, Florida 33609
Office: 813-223-3919 Fax: 813-223-3975

DATE:
HANNAH D. MCALEER RLA# 6667074
FLORIDA REGISTERED LANDSCAPE ARCHITECT

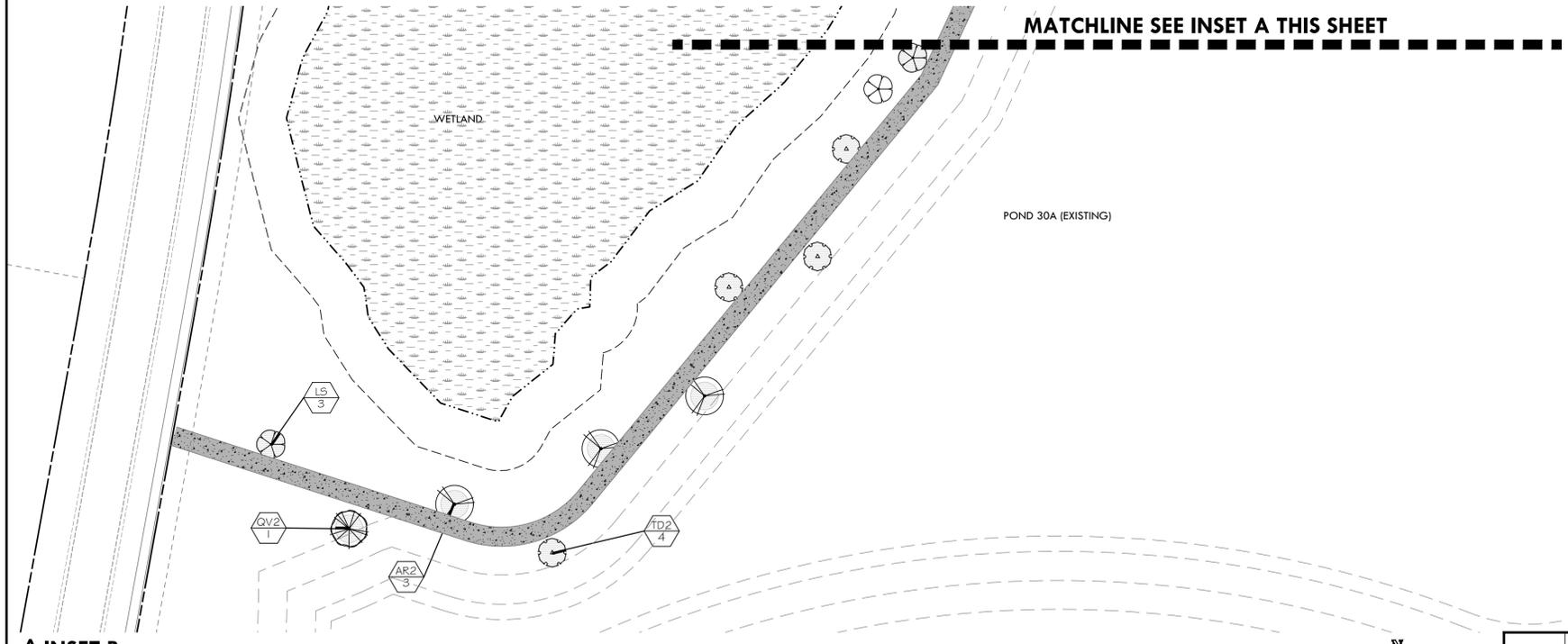
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JOB NO. LNH-MR-029	MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS
DESIGN MCALEER	
DRAWN DROOR	PREPARED FOR: LENNAR HOMES
DATE 10-07-2019	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet
FILE PLP	SHEET 42 OF 45 SHEETS

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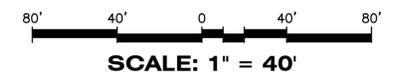


- LEGEND
- WETLAND LINE
 - - - WETLAND BUFFER
 - - - PROPERTY (PARCEL) BOUNDARY
 - WETLAND HATCH
 - REQUIRED TREE TO MEET LDC REQUIREMENT

^ INSET A

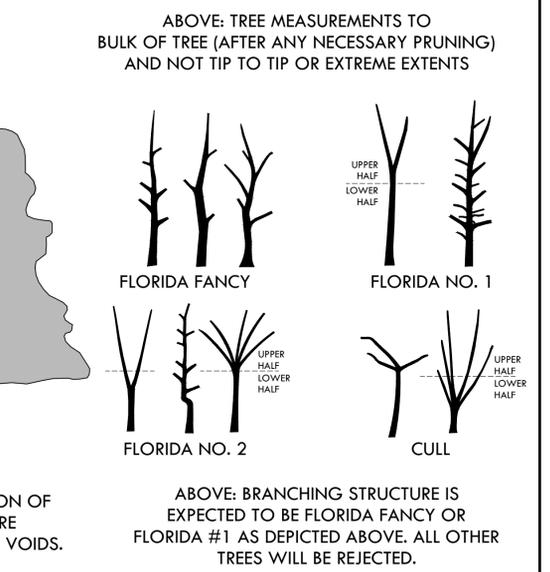
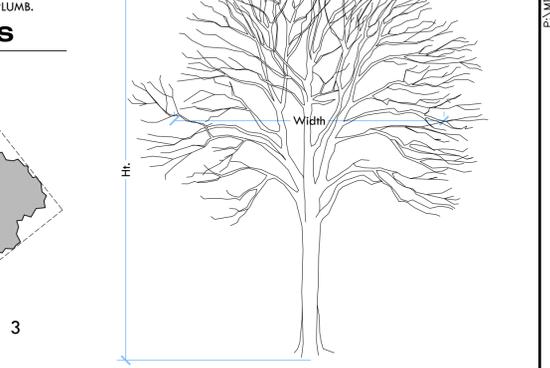
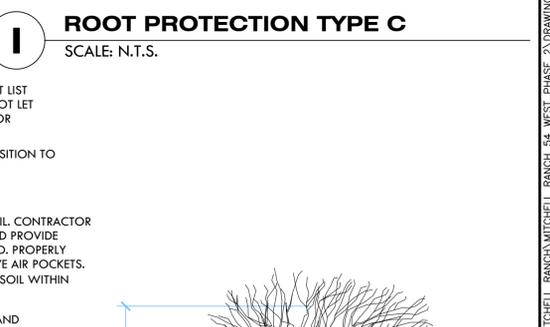
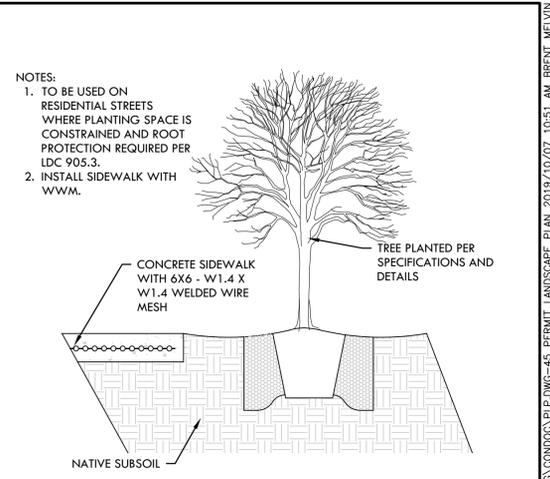
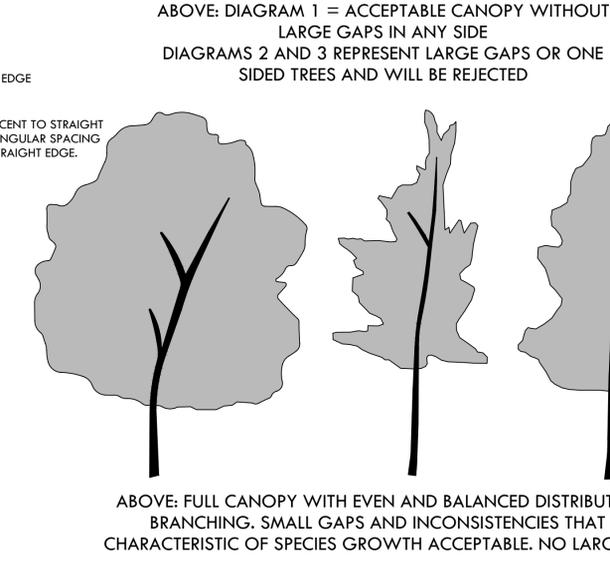
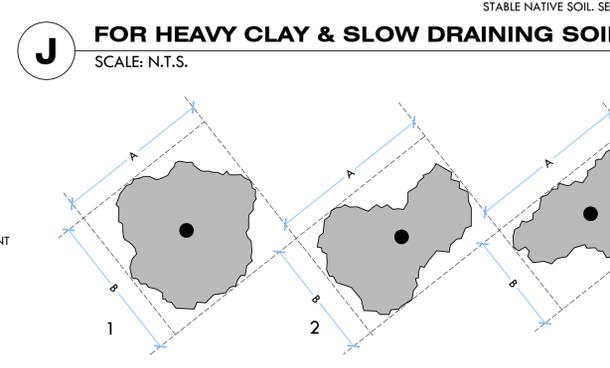
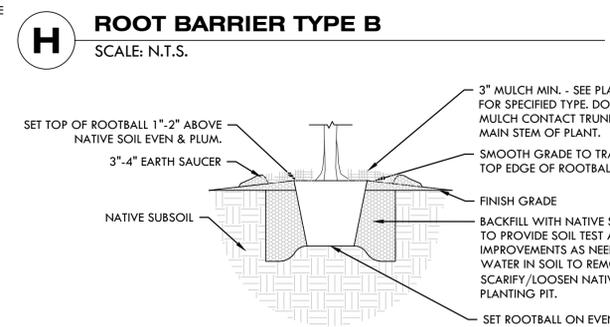
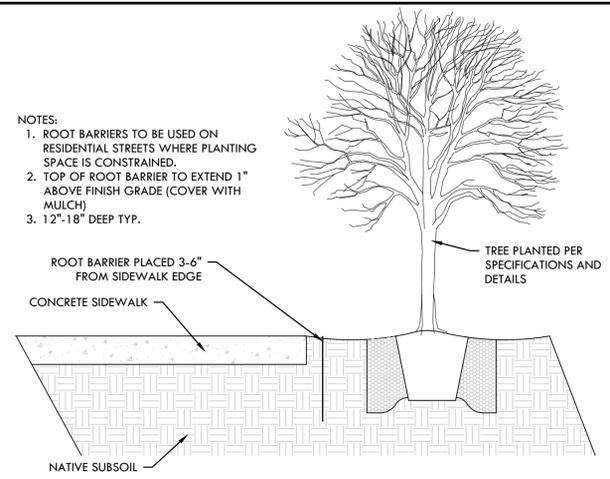
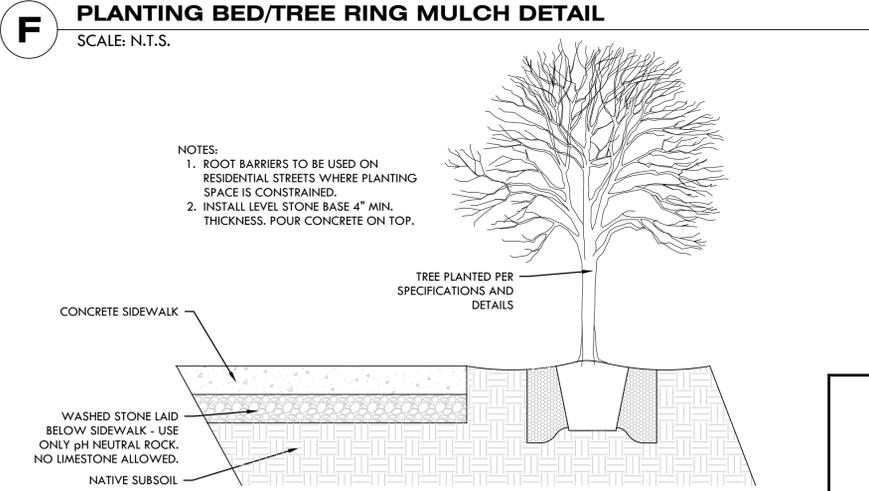
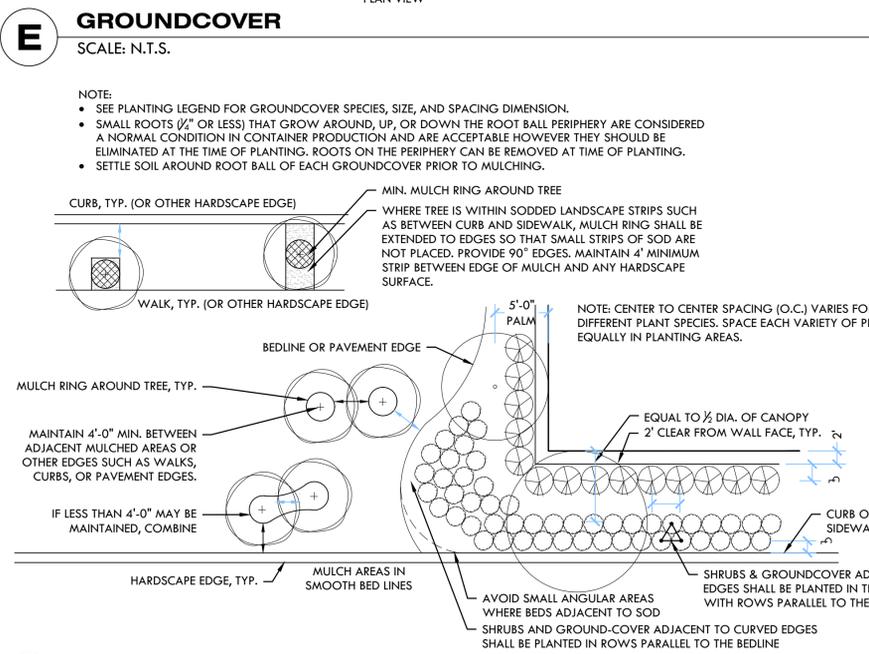
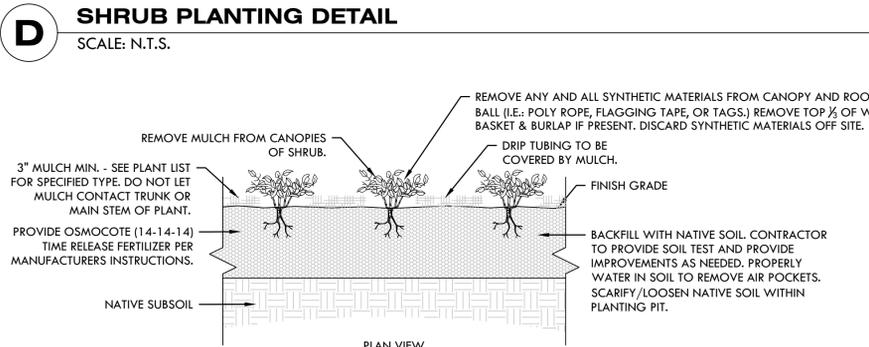
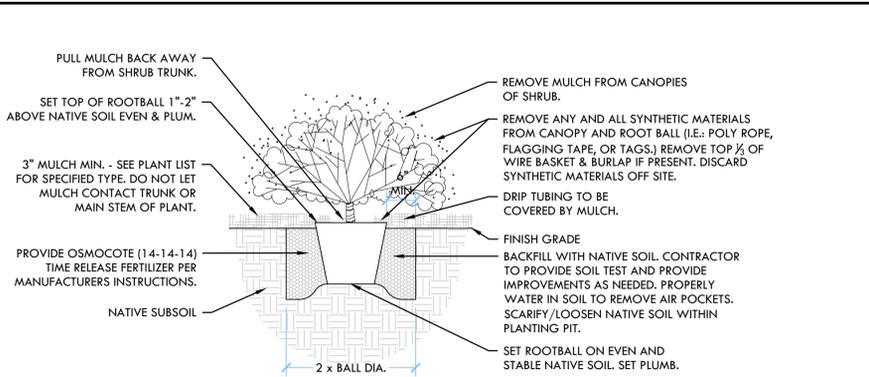
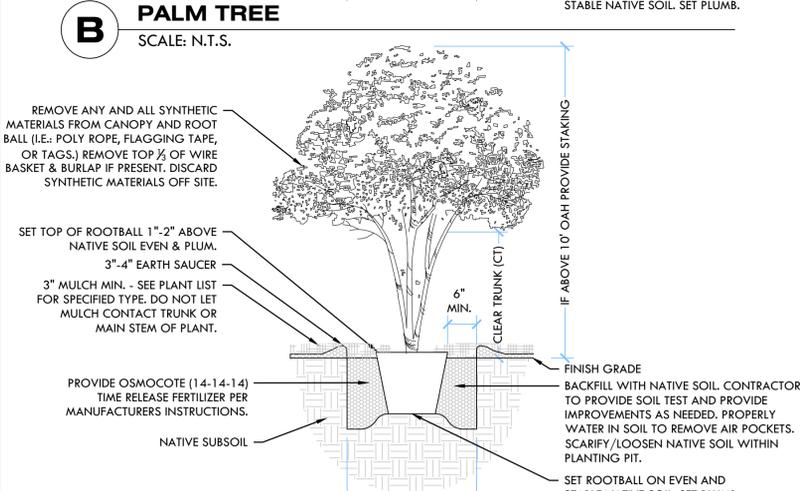
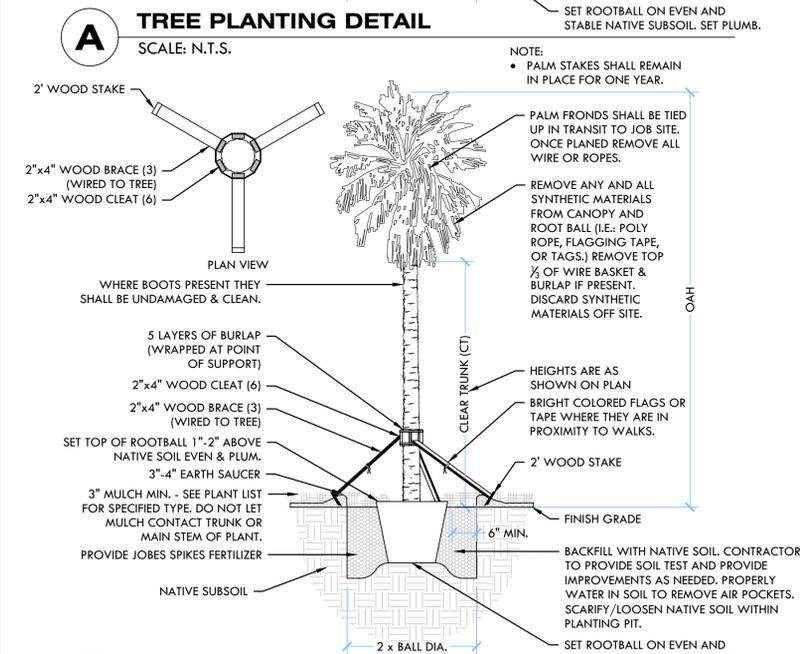
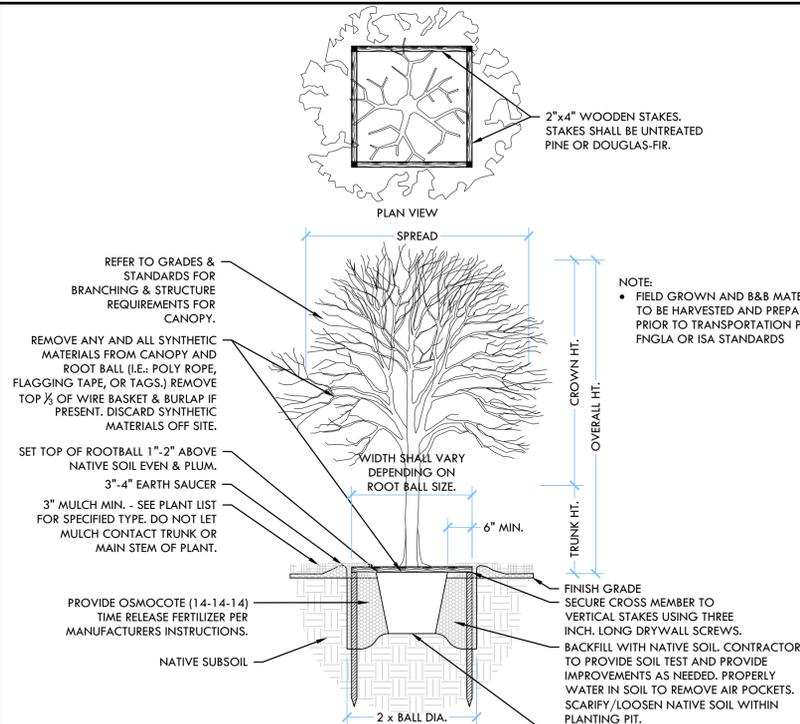


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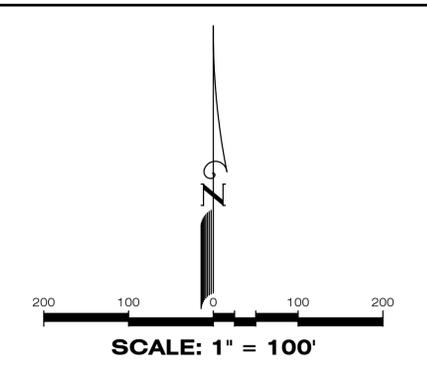
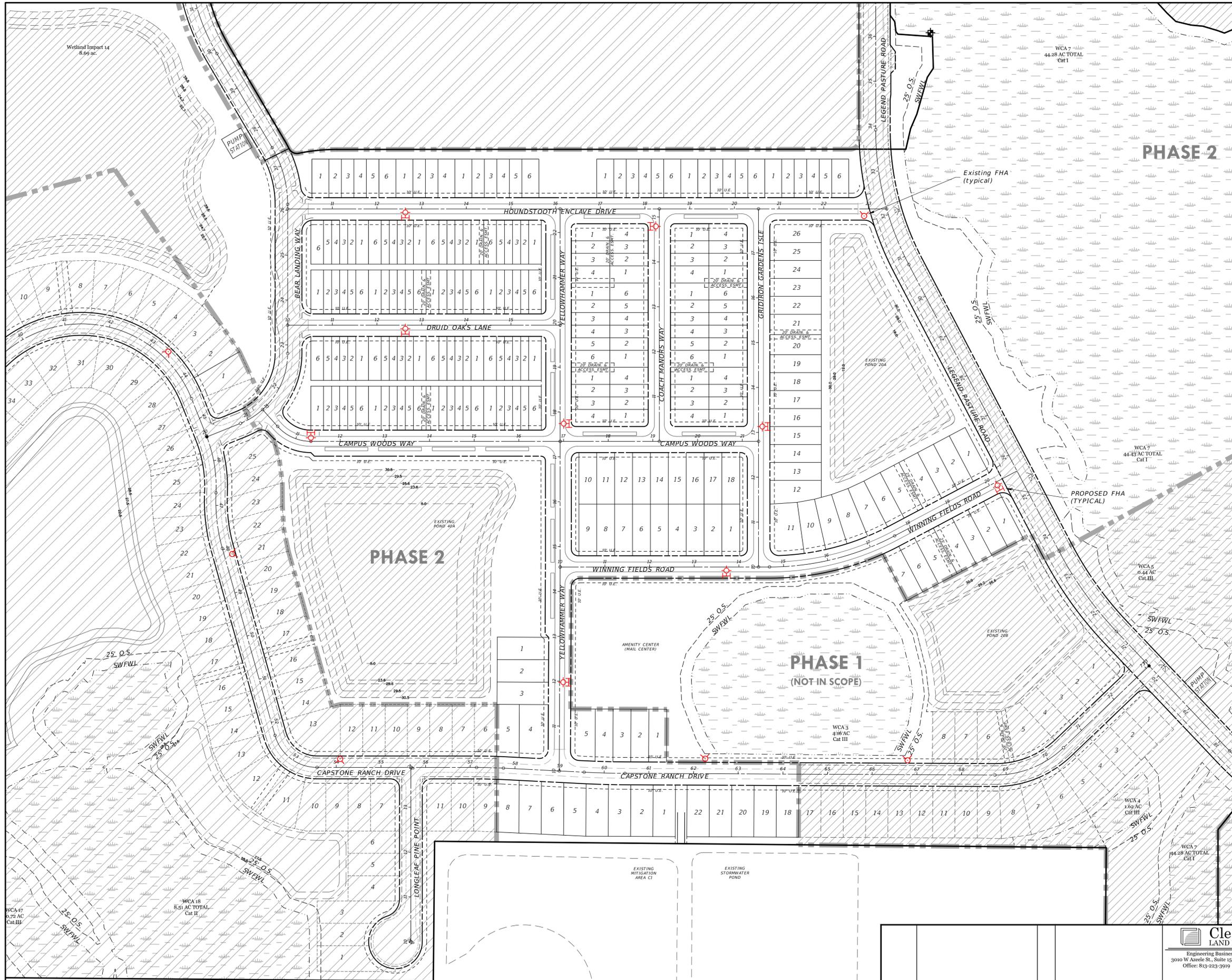
<p>09-18-2019 REVISED PER COUNTY COMMENTS NG</p> <p>08-07-2019 PERMIT PLANS JRD</p> <p>DATE DESCRIPTION BY</p> <p>REVISIONS</p>			<p>Clearview LAND DESIGN, P.L.</p> <p>Engineering Business C.A. No.: 28858 3010 W. Azeele Street, Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975</p>		<p>PERMIT LANDSCAPE PLAN</p> <p>JOB NO. LNH-MR-029</p> <p>DESIGN MCALEER</p> <p>DRAWN DROOR</p> <p>DATE 10-07-2019</p> <p>FILE PLP</p>		<p>MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS</p> <p>PREPARED FOR: LENNAR HOMES</p> <p>Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet</p> <p>SHEET 43 OF 45 SHEETS</p>	
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09-18-2019		REVISED PER COUNTY COMMENTS	NG
08-07-2019		PERMIT PLANS	JRD
DATE	DESCRIPTION	BY	
	REVISIONS		

Clearview LAND DESIGN, P.L. Engineering Business C.A. No.: 28858 3010 W. Azeele Street, Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975		PERMIT LANDSCAPE PLAN JOB NO: LNH-MR-029 DESIGN: MCALEER DRAWN: DROOR DATE: 10-07-2019 FILE: PLP	
HANNAH D. MCALEER RLA# 6667074 FLORIDA REGISTERED LANDSCAPE ARCHITECT		MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS PREPARED FOR: LENNAR HOMES ELEVATIONS based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet	
		SHEET 45 OF 45 SHEETS	



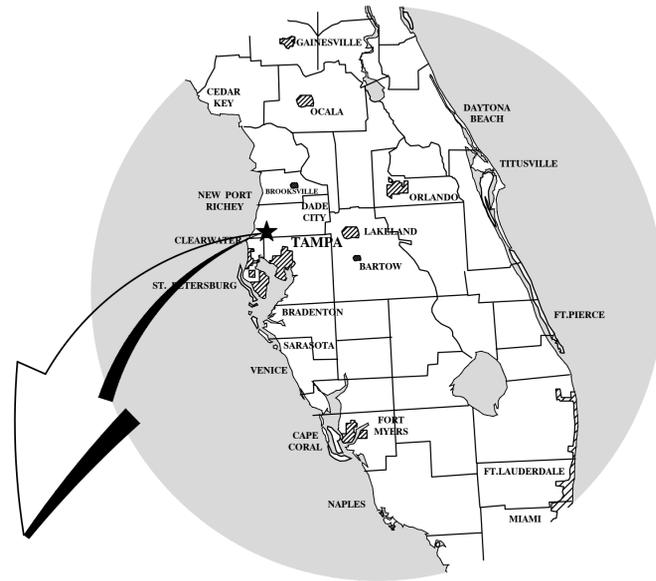
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08-07-2019	PERMIT PLANS	JRD
DATE	DESCRIPTION	BY
	REVISIONS	

Clearview
LAND DESIGN, P.L.
Engineering Business C.A. No. 28858
3010 W Azele St., Suite 150, Tampa, Florida 33609
Office: 813-223-3919 Fax: 813-223-3975

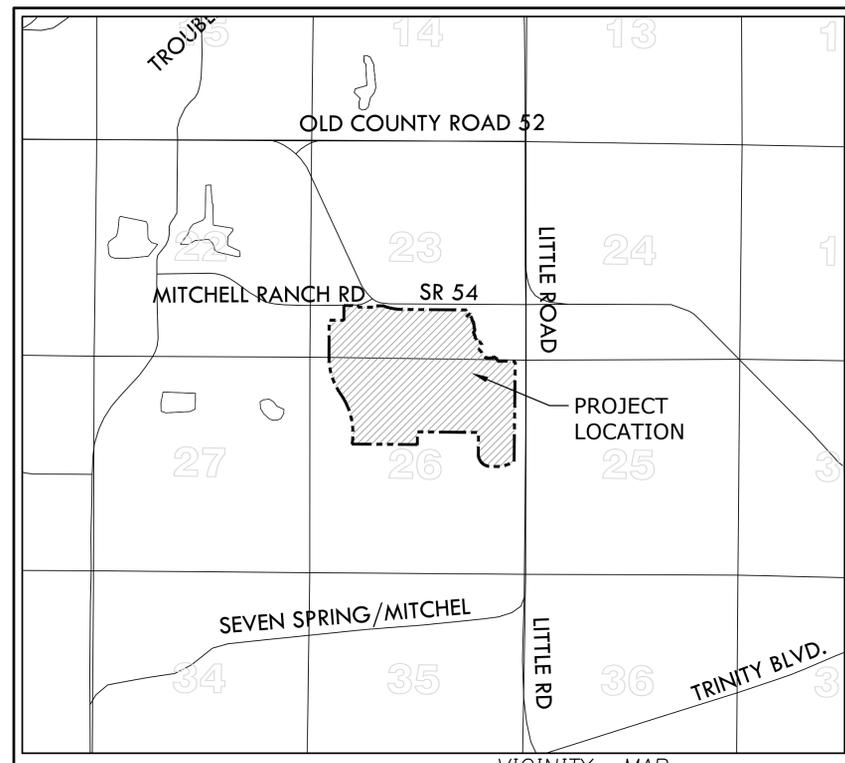
DATE: BRIAN G. SURAK P.E. NO. 59064
FLORIDA PROFESSIONAL ENGINEER

ADDRESS PLAN	
JOB NO. LNH-MR-014	MITCHELL RANCH 54 WEST PHASE 2 CONSTRUCTION PLANS
DESIGN MELVIN	
DRAWN DROOR	LENNAR HOMES
DATE 10-07-2019	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.84 Feet
FILE ADDRESS	SHEET 1 OF 1 SHEETS



MITCHELL RANCH

PRELIMINARY DEVELOPMENT PLAN (PDP)



VICINITY MAP
PASCO COUNTY, FLORIDA
SECTION 23 & 26, TOWNSHIP 26 SOUTH, RANGE 16 EAST

INDEX OF CONSTRUCTION PLANS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	PRELIMINARY DEVELOPMENT PLAN OVERALL
3-4	PDP NOTES & DETAILS
5	ROADWAY SECTIONS
6-9	PRELIMINARY DEVELOPMENT PLAN ENLARGED
10	MODEL PARKING LOT DETAIL

PREPARED FOR:

LENNAR

4600 W. CYPRESS ST.
SUITE 200
TAMPA, FL 33607

PREPARED BY:



Engineering Business C.A. No.: 28858
3010 W. AZEEL ST. SUITE 150 TAMPA, FL 33609
Office: 813-223-3919 Fax: 813-223-3975



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LAND O' LAKES, FL 34637
727-847-8145
ccullen@pascocountyfl.net

TIM GRAYSON
DUKE ENERGY
4121 SAINT LAWRENCE DR
NEW PORT RICHEY, FL 34653
727-372-5109
TIMOTHY.GRAYSON@DUKE-ENERGY.COM

BILL WALKER
CHARTER COMMUNICATIONS
- EAST PASCO
30432 SR 54
WESLEY CHAPEL, FL 33543
813-808-5658
michael.kiker@mybriighthouse.com

MEGAN DEVINO
PASCO COUNTY FIRE SERVICES
4111 LAND O'LAKES BLVD. STE. 208
LAND O' LAKES, FL 34639
813-929-2750
firerescue@pascocountyfl.net

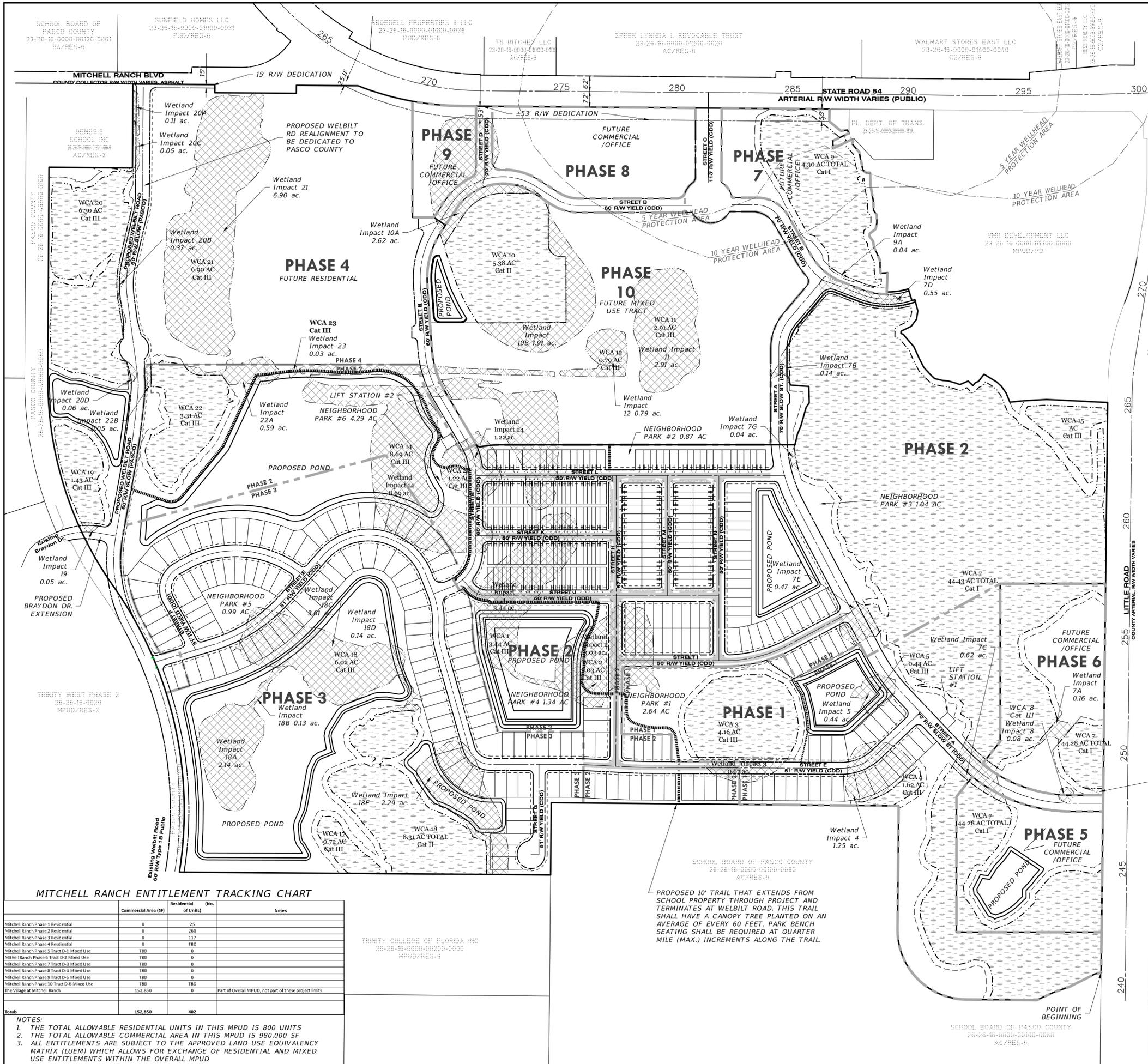
JANELLE KUSIOLEK
FLORIDA GOV'T UTILITIES AUTHORITY (FGUA)
280 WEKIVA SPRINGS RD
LONGWOOD, FL 32779-6026
407-340-2782
JKUSIOLEK@GOVSERV.COM

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TAMPA FL 33607
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PHYLLIS BRIDGES
TECO PEOPLES GAS-TAMPA
1400 CHANNELSIDE DR
TAMPA, FL 33605
813-275-3742
jcastellanos@tecoenergy.com

PERMIT / FILE NOS.	
PASCO PDD PROJECT NO.	
FGUA PROJECT NO.	
SWFWMD ERP/APPLICATION ID NO.	
WATER DEP	
SEWER DEP	
RECLAIMED WATER DEP	
PARCEL ID NO.	23-26-16-0000-01200-0050 23-26-16-0000-01200-0000 23-26-16-0000-01200-0014 23-26-16-0000-01900-0000 26-26-16-0000-00100-0000 26-26-16-0000-00100-0100 26-26-16-0000-00100-0110

MITCHELL RANCH		
DATE:	BRIAN G. SURAK P.E. No 59064	
DATE:	04-01-19	JOB NO.: LNH-MR-011
DATE:	05-30-19	3, 5, 6, 9
DATE:	SHEET NO.	BY
REVISIONS		
FILE:	CV	SHEET 1 OF 10



SCALE: 1" = 200'

LEGEND

EXISTING	PROPOSED	DESCRIPTION
12	12	STORM DRAINAGE STRUCTURE & PIPE PIPE SIZE IN INCHES
10	10	STRUCTURE NO.
62.0	62.0	SPOT ELEVATION
65.00	65.00	PROPOSED PROFILE GRADE ELEVATION
63	65.00	CONTOUR
→	→	DIRECTION OF SURFACE FLOW
→	→	UNDERDRAIN WITH CLEANOUT
---	---	PHASE LINE
---	---	FEMA FLOOD ZONE BOUNDARY
---	---	BASE FLOOD ELEVATION (FT)
---	---	WETLAND LINE
---	---	25' OFFSET FROM WETLAND LINE
---	---	WETLAND CONSERVATION AREA PASCO WETLAND CATEGORY
---	---	PROTECTED WETLAND AREAS
---	---	PROPOSED WETLAND IMPACTS
---	---	PROJECT BOUNDARY
---	---	PEDESTRIAN TRAIL
---	---	100 YEAR BASE FLOOD ELEVATION
---	---	100 YEAR FLOODLINE DETAILED STUDY
---	---	UTILITY EASEMENT
---	---	BLOCK NUMBER

INDEX OF MAP COVERAGE

PRELIMINARY DEVELOPMENT PLAN

MITCHELL RANCH

LENNAR HOMES LLC

PREPARED FOR: LENNAR HOMES LLC

DESIGN: LMH-MR-011

DRAWN: DATE: FILE: PDP

DATE: 05-30-19

REVISIONS

MITCHELL RANCH ENTITLEMENT TRACKING CHART

	Commercial Area (SF)	Residential (No. Units)	Notes
Mitchell Ranch Phase 1 Residential	0	25	
Mitchell Ranch Phase 2 Residential	0	260	
Mitchell Ranch Phase 3 Residential	0	117	
Mitchell Ranch Phase 4 Residential	0	180	
Mitchell Ranch Phase 5 Tract D-1 Mixed Use	TBD	0	
Mitchell Ranch Phase 6 Tract D-2 Mixed Use	TBD	0	
Mitchell Ranch Phase 7 Tract D-3 Mixed Use	TBD	0	
Mitchell Ranch Phase 8 Tract D-4 Mixed Use	TBD	0	
Mitchell Ranch Phase 9 Tract D-5 Mixed Use	TBD	0	
Mitchell Ranch Phase 10 Tract D-6 Mixed Use	TBD	180	
The Village at Mitchell Ranch	152,850	0	Part of Overall MPUD, not part of these project limits
Totals	152,850	402	

TRINITY COLLEGE OF FLORIDA INC
26-26-16-0000-0000-0000
MPUD/REG-9

PROPOSED 10' TRAIL THAT EXTENDS FROM SCHOOL PROPERTY THROUGH PROJECT AND TERMINATES AT WELBILT ROAD. THIS TRAIL SHALL HAVE A CANOPY TREE PLANTED ON AN AVERAGE OF EVERY 60 FEET. PARK BENCH SEATING SHALL BE REQUIRED AT QUARTER MILE (MAX.) INCREMENTS ALONG THE TRAIL.

PRELIMINARY DEVELOPMENT PLAN

MITCHELL RANCH

LENNAR HOMES LLC

PREPARED FOR: LENNAR HOMES LLC

DESIGN: LMH-MR-011

DRAWN: DATE: FILE: PDP

DATE: 05-30-19

REVISIONS

PRELIMINARY PLAN NOTES:

Developer: Lennar Homes
4600 West Cypress St. Suite 200
Tampa, FL 33607
(813)574-5658
Parker.Hirons@Lennar.com

Engineer: Clearview Land Design, P.L.
3010 Azeele St. Suite 150
Tampa, Florida 33609
(813) 223-3919
brian.surak@clearviewland.com

Surveyor: Florida Design Consultants, Inc.
3030 Starkey Blvd
New Port Richey FL, 34655
(800)532-1047
jpatenude@fdesign.com

- Existing Zoning: **MPUD (R2-716)** (Current Approval 08/29/2016). The Owner/Developer acknowledges that the site and its subsequent building permits shall comply with all zoning MPUD/PUD conditions.
- Existing Land Use: Vacant Pasture, Single Family Residence
- Future Land Use Classification: Planned Development (PD)
- Water service to be provided by Florida Government Utility Authority (FGUA).
- Sewage disposal service to be provided by Florida Government Utility Authority (FGUA).
- Electrical power to be provided by DUKE ENERGY Telephone service to be provided by FRONTIER & SPECTRUM.
- Street lighting to be provided by DUKE ENERGY for the entire project in accordance with Section 901.1.
- Fire protection to be provided by the existing Pasco County Fire Station No. 17, located at Seven Springs Blvd, approximately 2 miles from the project entrance. Fire Hydrants will be provided on-site.
- The uplands are pasture. The wetlands are cypress heads and grass marshes.
- Predominant soil types on-site consist of Myakka, Tavares, Sellers, Adamsville, Smyrna, and Basinger Fine Sands.
- Recreation areas, conservation areas, and stormwater management facilities will be owned and maintained by the Homeowners' Association (HOA) unless otherwise noted.
- Stormwater Management ponds to be within tracts dedicated to the CDD for maintenance unless otherwise noted.
- Contours shown are based on North American Vertical Datum (NAVD88).
- All roadway standards to comply with the Manual of Uniform Minimum Standards, State of Florida.
- Signing & Pavement Markings:
 - Handicap parking spaces will be properly signed and striped in accordance with Florida Statute 316, the Manual on Uniform Traffic Control Devices, or other applicable standards.
- All onsite parking spaces shall be striped and signed in accordance with the Manual on Uniform Traffic Control Devices, latest edition. Parking spaces, directional arrows, and stop bars shall be striped in WHITE. It shall be the owner/developer's responsibility to properly sign and stripe in accordance with applicable standards.
- All proposed signs must be applied for, approved, and permitted on an individual basis apart from any ultimately approved site plan. Approval of this site plan does not constitute approval of any signage.
- All utility construction shall comply with the FGUA Standards for Design and Construction of Water and Wastewater Facilities Specifications, latest edition.
- All utility lines shall be installed underground.
- The site appears to lie within Flood Zones A, Ae, and X according to F.I.R.M. Panel 12101C0360F of Pasco County FL, Dated 09/26/2014.
- A minimum of 16" of sod strip will be provided along all roadways per Pasco County requirements.
- Setbacks from post-developed wetlands shall be as follows: 25-foot minimum undisturbed around all Category I Wetlands; Buffers around Category II and Category III Wetlands shall be as required by SWFWMD. Allowable uses and restrictions for buffers shall be in accordance with Section 805 of the Pasco County Land Development Code.
- Sidewalks will be provided on both sides of all roads including non-lot areas. Unless otherwise shown, all sidewalks shall be five (5) feet wide, 4" thick concrete, and 3000 p.s.i., fiber-reinforced. Sidewalks shall be constructed on a compacted non-yielding subgrade, and 6" in thickness is required where sidewalk is crossed by a driveway.
- Buffering for all retention/detention areas along road right-of-ways and private roads to have trees selected from tree list at the rate of one tree per 50 LF.
- All landscapes and sodded areas along collector road will be irrigated and maintained by the HOA or an entity other than Pasco County.
- This project will comply with the Pasco County Tree Protection and Restoration Ordinance.
- All construction work, including road, drainage and utilities, shall be constructed in accordance with Pasco County design standards and tested in compliance with the Pasco County Engineering Service Department Testing Specifications for construction of roads, storm drainage and utilities. All work must stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statute.
- If during construction activities any evidence of historic resources, including but not limited to aboriginal or historic pottery, prehistoric stone tools, bone or shell tools, historic trash pits, or historic building foundation, are discovered, work shall come to an immediate stop and the Florida Department of Historic Resources (State Historic Preservation Officer) and Pasco County shall be notified within two working days of the resources found on the site. In the event that unmarked human remains are encountered during permitted activities, all work must stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statute.
- The architect/engineer certifies that the site has been designed in accordance with the Americans with Disabilities Act.
- All clear-site areas shall be kept free of any signage plantings, trees, etc. in excess of three-and-a-half (3-1/2) feet in height.
- No irrigation system or landscaping shall be installed in any County or State right-of-way without issuance of appropriate Right-of-Way Use Permit.
- Fugitive dust emissions shall be controlled by sprinkling as necessary.
- On-site burning shall not be employed without approval from the Fire Marshal.
- The soil erosion and sediment control devices shall be installed prior to construction, maintained throughout construction and until the site is permanently stabilized.
- All driveway cuts shall be installed to local streets.
- The CDD or HOA will be responsible for maintenance of the underdrain system.
- Maintenance of sidewalk shall be the responsibility of the HOA, or an entity other than Pasco County.
- Drainage tracts/easements shall be conveyed to the HOA by plat. The easements will be required to be given to Pasco County, for the right but not the obligation to maintain. Maintenance responsibility will be that of the HOA.
- In consideration of Pasco County's agreement to provide potable water and/or reclaimed water to the subject property, Developer/Owner, and its successors and assigns, agree to the following:
 - In the event of Production Failure or Shortfall by Tampa Bay Water, as set forth in section 3.19 of the Interlocal Agreement creating Tampa Bay Water, Developer/Owner shall transfer to Pasco County any and all water use permits or water use rights the Developer/Owner may have on use or consume surface or ground water within Pasco County.
 - Prior to Developer/Owner selling water or water use permits or water use rights, Developer/Owner shall notify Pasco County, and Pasco County shall have a right of first refusal to purchase such water or water use permits or water use rights.
 - The Developer will grant, convey, warrant and dedicate to the County via plat a Non-Exclusive Flow through Easement and reasonable right of access to ensure the free flow of water for public drainage purposes over, through and under all drainage easements/areas or commonly owned property shown on this plat. In the event the Owner, the District or the Association fails to properly maintain any public or private drainage easements/areas preventing the free flow of water, the County shall have the reasonable right, but not the obligation, to access and enter upon any public or private drainage easement/area for the purpose of performing maintenance to ensure the free flow of water.
 - As applicable, the Owner/Developer will provide copies of the required permits from the respective agencies prior to the issuance of the SDP.
- The Owner/Developer acknowledges that this approval does not include any work in the County ROW. All ROW work shall be a function of an approved Pasco Right-of-Way Use Permit.
- All structures, including buffer walls, retaining walls, signage, etc., require building permits.
- If during construction activities any evidence of the presence of State and Federally protected plant and/or animal species is discovered, work shall come to an immediate stop and Pasco County shall be notified within two working days of the plant and/or animal species found on the site.
- If a project site contains an easement, especially a power company easement, a letter of no objection is required from the easement holder. By signing and sealing this plan the engineer of record is attesting that he has identified and accurately shown all easements of record on the plans.
- There were no known cultural resources discovered on site.

PASCO COUNTY STANDARD SITE PLAN NOTES:

- All utility construction shall comply with the Pasco County Standards for Design and Construction of Water and Wastewater Facilities Specifications, latest edition.
- All on-site water and sewer facilities shall be owned and maintained by the owner/developer.
- Installation of fuel storage tanks requires review and approval by the Fire Marshal and the issuance of a separate building permit. Approval of this site plan does not constitute approval of the location of the fuel tanks.
- All proposed signs must be applied for, approved, and permitted on an individual basis apart from any ultimately approved site plan. Approval of this site plan does not constitute approval of any signage.
- Handicap parking spaces will be properly signed and striped in accordance with Florida Statute 316, the Manual on Uniform Traffic Control Devices, or other applicable standards.
- The architect/engineer certifies that the site has been designed in accordance with the Americans with Disabilities Act.
- All on-site parking spaces will be striped and signed in accordance with the Manual on Uniform Traffic Control Devices, latest edition. Parking spaces, directional arrows, and stop bars shall be striped in WHITE. It shall be the owner/developer's responsibility to properly sign and stripe in accordance with applicable standards.
- The owner/developer acknowledges that this approval does not include any work in the County right-of-way. All right-of-way work shall be a function of an approved Pasco Right-of-Way Use Permit.
- All clear-site areas shall be kept free of any signage plantings, trees, etc. in excess of three-and-a-half (3-1/2) feet in height.
- No irrigation system or landscaping shall be installed in any County or State right-of-way without issuance of appropriate Right-of-Way Use Permit.
- The owner/developer acknowledges that the site and its subsequent building permits shall comply with all zoning/MPUD/PUD conditions.
- All structures, including buffer walls, retaining walls, signage, etc., require building permits.

RESIDENT & VISITOR PARKING REQUIREMENTS (PHASE 1-3):

- REQUIRED:
 - Resident: 3 spaces x 402 units = 1206 Spaces
 - Visitor: 0.25 spaces x 402 units = 101 Spaces
 - Total Required = 1307 Required
- PROVIDED:
 - SINGLE FAMILY DETACHED: (2-CARS IN GARAGE + 2-CAR IN DRIVEWAY) = 216 x 4 = 864 SPACES
 - 28' TOWNHOMES (2-CARS IN GARAGE + 2-CAR IN DRIVEWAY) = 90 x 4 = 360 SPACES
 - 16' TOWNHOMES (1 CAR IN GARAGE + 1 CAR IN DRIVEWAY) = 96 x 2 = 192 SPACES
 - SURFACE PARKING = 60 SPACES*
 - TOTAL PARKING PROVIDED = 1,476 SPACES

* DOES NOT INCLUDE GENERAL STREET PARKING ON YIELD STREETS

***NEIGHBORHOOD PARK REQUIREMENTS:**

- TOTAL AREA REQUIRED:
 - REQUIRED: 1.0 AC. + (1 ACRE/100 LOTS) X 402 LOTS = 4.02 AC.
- PROVIDED:
- NEIGHBORHOOD PARK 1: 2.64 AC. (TRACTS C-1 & B-3)
 - NEIGHBORHOOD PARK 2: 0.87 AC. (TRACT P-2)
 - NEIGHBORHOOD PARK 3: 1.04 AC. (TRACT B-2)
 - NEIGHBORHOOD PARK 4: 1.34 AC. (TRACT B-5)
 - NEIGHBORHOOD PARK 5: 0.99 AC. (TRACT P-1)
 - NEIGHBORHOOD PARK 6: 4.29 AC. (TRACT B-6)
- TOTAL 11.17
- (7.15 AC MAY BE APPLIED TO PHASE 4 FUTURE RESIDENTIAL)

2. THE SERVICE RADIUS FOR THE NEIGHBORHOOD PARK IS 1/4 MILE. THE ENTIRE PROJECT SITE FALLS WITHIN THIS SERVICE BOUNDARY

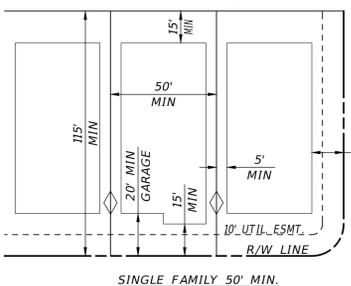
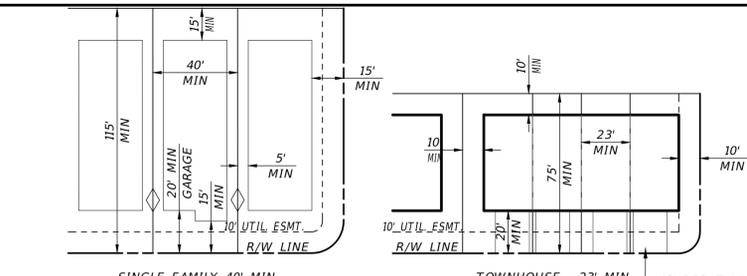
ENVIRONMENTAL NOTES:

- If during construction activities any evidence of the presence of State or Federally protected plant and/or animal species is discovered, Pasco County and applicable agencies shall be notified within two working days of the plant and/or animal species found on the site. All work shall come to an immediate stop until all pertinent permits have been obtained, agency written authorization to commence activities has been given, or compliance with state and federal guidelines can be demonstrated.
- No construction activities including: clearing, grading, grubbing shall occur within the Wetland Upland Buffer as depicted on the approved project Construction Plans.
- The county biologist shall be contacted prior to construction activities to confirm if the Florida Sandhill Crane, Southeastern American Kestrel, Sherman's Fox Squirrel breeding season surveys are necessary.
- The upland buffer line shall be clearly field demarcated prior to any construction activities.

STANDARD FIRE PROTECTION NOTES:

- All projects must comply with Pasco County Fire Hydrant Ordinance as per the Pasco County Land Development Code, Section 904.
- Fire hydrants shall be installed and in service prior to the accumulation of combustibles.
- Per the National Fire Protection Association, NFPA-1, 16.4.3.1.3: Where underground water mains and hydrants are to be provided, they shall be installed, completed, and in service prior to construction work.
- Per NFPA-1, 18.3.4.1: Clearances of 7 1/2 feet in front of and to the sides of the fire hydrant with a 4-foot clearance to the rear must be maintained at all times.
- Gated entries require a Siren Operating System or a 3M Opticom system for emergency access.

WETLAND CATEGORY SUMMARY	
CATEGORY	AREA
CAT I	48.73 AC
CAT II	5.94 AC
CAT III	63.83 AC
TOTAL	118.50 AC



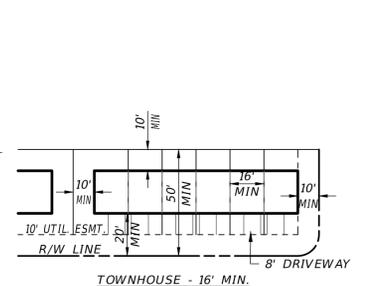
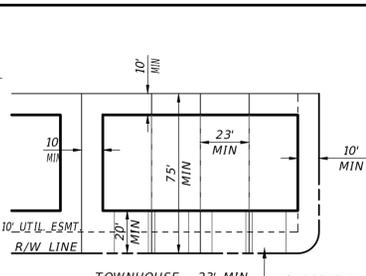
SINGLE FAMILY DETACHED NOTES

- SIDE YARD SETBACKS SHALL BE IN COMPLIANCE WITH PASCO COUNTY LDC SECTION 902.2.K.2.b
- MAXIMUM LOT COVERAGE IS 65%
- MAXIMUM BUILDING HEIGHT IS 35'
- ALL CORNER LOTS SHALL BE A MINIMUM OF 10 FEET LARGER THAN THE STANDARD LOT WIDTH ON THAT BLOCK.
- FORWARD FACING GARAGES SHALL HAVE A MINIMUM SETBACK OF 20 FEET
- LOT WIDTH IS MEASURED HORIZONTALLY AT THE FRONT SETBACK LINE.
- ON CORNER LOTS WHERE THERE IS MORE THAN ONE SETBACK THE FRONT SETBACK MAY BE REDUCED TO 10 FEET.

REPRESENTS REQUIRED 5' WIDE DRAINAGE & ACCESS EASEMENT ALONG BOTH SIDES OF DESIGNATED LOT LINE FOR EACH LOT WITH SIDE SETBACKS LESS THAN 7.5 FEET

WETLAND SUMMARY TABLE:

WETLAND ID	WETLAND CATEGORY	WETLAND AREA (AC.)	WETLAND IMPACT ID	IMPACT AREA (AC.)
1	III	3.44	1	3.44
2	III	3.03	2	3.03
3	III	4.16	3	0.67
4	III	1.62	4	1.25
5	III	0.44	5	0.44
7	I	44.43	7A	0.16
			7A2	0.02
			7B	0.14
			7C	0.62
			7D	0.55
			7E	0.47
			7G	0.04
			7S	0.07
8	III	0.07	8	0.07
9	I	4.30	9A	0.04
10	III	9.92	10A	2.62
			10B	1.91
11	III	2.91	11	2.91
12	III	0.79	12	0.79
14	III	8.69	14	8.69
15	III	1.26	15A	2.29
17	II	0.72	18A	2.14
18	II	5.22	18B	0.13
18	III	8.31	18C	3.61
			18D	0.14
19	III	1.43	19	0.05
20	III	6.30	20A	0.11
			20B	0.37
			20C	0.05
			20D	0.06
21	III	6.90	21	6.90
22	III	3.31	22A	0.59
			22B	0.05
23	III	0.03	23	0.03
24	III	1.22	24	1.22
	TOTAL	118.50		45.60



TOWNHOUSE NOTES

- MAXIMUM LOT COVERAGE IS 90%.
- MAXIMUM BUILDING HEIGHT IS 35 FEET.
- ALL FORWARD FACING GARAGES SHALL HAVE A MINIMUM SETBACK OF 20 FEET.

LEGAL DESCRIPTION:

A parcel of land being a portion of Sections 23 and 26, Township 26 South, Range 16 East, Pasco County, Florida, being more particularly described as follows:

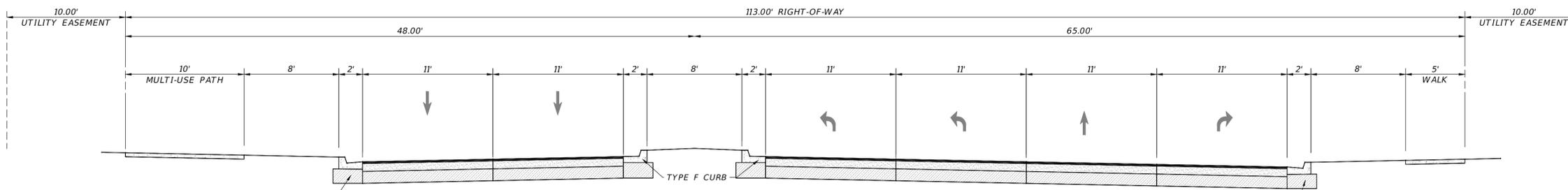
COMMENCE at the Southeast corner of the Northeast 1/4 of Section 26, Township 26 South, Range 16 East, Pasco County, Florida; thence N89°31'39"W, along the South line of said Northeast 1/4 of Section 26 (being the basis of bearings for this legal description), for 260.17 feet to the point of intersection with the Westerly Right-of-Way line of Little Road, according to Official Records Book 1469, page 1422 of the Public Records of Pasco County, Florida; thence leaving said South line of the Northeast 1/4 of Section 26, N00°34'52"E, along said Westerly Right-of-Way line of Little Road, for 0.71 feet; thence N00°39'53"E, continuing along said Westerly Right-of-Way line of Little Road, for 119.91 feet to the Northeast corner of that certain property as described in Official Records Book 3102, page 1213 of the Public Records of Pasco County, Florida, same being the POINT OF BEGINNING; thence the following eight (8) courses along the Northerly line of said certain property as described in Official Records Book 3102, page 1213; (1) thence leaving said Westerly Right-of-Way line of Little Road, S78°06'26"W, for 26.54 feet; (2) thence S63°27'58"W, for 121.46 feet; (3) thence S70°17'12"W, for 76.89 feet; (4) thence S65°26'03"W, for 78.57 feet to the point of intersection with said South line of the Northeast 1/4 of Section 26; (5) thence N89°31'39"W, along said South line of the Northeast 1/4 of Section 26, for 305.14 feet to the point of intersection with a non-tangent curve, concave Northerly; (6) thence leaving said South line of the Northeast 1/4 of Section 26, Northwesterly along the arc of said curve, from a radial bearing of S00°29'07"W, having a radius of 300.00 feet; a central angle of 90°03'58", an arc length of 471.58 feet, and a chord bearing N44°29'54"W for 424.51 feet to the point of intersection with a non-tangent line; (7) thence N00°32'09"E, for 531.05 feet; (8) thence N89°27'18"W, for 1,503.45 feet to the point of intersection with the West line of said Northeast 1/4 of Section 26, same being the Northwest corner of said certain property as described in Official Records Book 3102, page 1213; thence S00°31'56"W, along said West line of the Northeast 1/4 of Section 26, same being the West line of said certain property as described in Official Records Book 3102, page 1213, for 311.43 feet to the Northeast corner of that certain property as described in Official Records Book 5070, page 101 of the Public Records of Pasco County, Florida; thence leaving said West line of the Northeast 1/4 of Section 26, N89°34'07"W, along the North line of said certain property as described in Official Records Book 5070, page 101, for 1,606.52 feet to the point of intersection with the Easterly Right-of-Way line of Welbilt Boulevard, according to Official Records Book 5418, page 1791 of the Public Records of Pasco County, Florida, same being the Northwest corner of said certain property as described in Official Records Book 5070, page 101, same also being the point of intersection with a non-tangent curve, concave Westerly; thence the following four (4) courses along said Easterly Right-of-Way line of Welbilt Boulevard and the Easterly line of that certain property as described in Official Records Book 3176, page 970 of the Public Records of Pasco County, Florida, respectively; (1) thence Northerly along the arc of said curve, from a radial bearing of S80°53'01"E, having a radius of 1,675.00 feet, a central angle of 44°25'55", an arc length of 1,298.94 feet, and a chord bearing N13°05'59"W for 1,266.63 feet to the point of tangent; (2) thence N35°18'57"W, for 1.44 feet to the point of curvature of a curve concave Easterly; (3) thence Northerly along the arc of said curve, having a radius of 1,530.00 feet, a central angle of 35°37'16", an arc length of 951.21 feet, and a chord bearing N17°30'19"W for 935.96 feet to the point of tangent; (4) thence N00°18'19"E, for 909.22 feet to the Southwest corner of that certain property as described in Official Records Book 1712, page 1843 of the Public Records of Pasco County, Florida; thence leaving said Easterly line of that certain property as described in Official Records Book 3176, page 970, S89°32'50"E, along the South line of said certain property as described in Official Records Book 1712, page 1843, for 361.59 feet to the Southeast corner of said certain property as described in Official Records Book 1712, page 1843; thence N00°17'44"E, along the East line of said certain property as described in Official Records Book 1712, page 1843, for 361.67 feet to the point of intersection with the Southerly line of Mitchell Ranch Road, according to Official Records Book 1281, page 1225 of the Public Records of Pasco County, Florida, same being the Northeast corner of said certain property as described in Official Records Book 1712, page 1843; thence S89°32'48"E, along said Southerly line of Mitchell Ranch Road, according to Official Records Book 1281, page 1225, for 354.67 feet to the point of intersection with the Southerly Right-of-Way line of Mitchell Ranch Road, according to Official Records Book 3518, page 1394 of the Public Records of Pasco County, Florida; thence the following three (3) courses along said Southerly Right-of-Way line of Mitchell Ranch Road, according to Official Records Book 3518, page 1394; (1) thence S00°27'22"W, for 34.95 feet; (2) thence S89°32'38"E, for 352.93 feet; (3) thence N00°14'00"E, for 34.97 feet to the point of intersection with said Southerly line of Mitchell Ranch Road, according to Official Records Book 1281, page 1225; thence S89°32'48"E, along said Southerly line of Mitchell Ranch Road, according to Official Records Book 1281, page 1225, for 266.52 feet to the point of intersection with the Southerly Right-of-Way line of State Road 54, according to Official Records Book 4042, page 1441 of the Public Records of Pasco County, Florida, same being the point of intersection with a non-tangent curve, concave Northerly; thence Easterly along said Southerly Right-of-Way line of State Road 54, according to Official Records Book 4042, page 1444, along the arc of said curve, from a radial bearing of S21°20'12"W, having a radius of 1,278.23 feet, a central angle of 20°53'00", an arc length of 465.89 feet, and a chord bearing S79°06'18"E for 463.32 feet to the point of tangent; thence S89°32'48"E, along the Southerly Right-of-Way line of State Road 54, according to said Official Records Book 4042, page 1444 and Official Records Book 2058, page 1993, Official Records Book 2059, page 1 and Official Records Book 2058, page 1999, all of the Public Records of Pasco County, Florida, respectively, for 1,585.46 feet; thence leaving said Southerly Right-of-Way line of State Road 54, according to said Official Records Book 4042, page 1444, Official Records Book 2058, page 1993, Official Records Book 2059, page 1 and Official Records Book 2058, page 1999, S00°27'12"W, for 53.70 feet; thence S52°55'46"E, for 18.78 feet; thence S49°59'15"E, for 46.05 feet; thence N81°22'55"E, for 28.05 feet; thence S27°00'44"E, for 15.26 feet to the point of intersection with the Westerly line of Official Records Book 4216, Page 1356 of the Public Records of Pasco County, Florida; thence along said Westerly line of Official Records Book 4216, Page 1356 the following three (3) courses: (1) S64°29'40"W, for 77.17 feet; (2) thence S00°00'51"E, for 33.24 feet; (3) thence N64°29'40"W, for 92.27 feet; thence leaving said Westerly line of Official Records Book 4216, Page 1356, S27°00'44"E, for 11.71 feet; thence S45°50'13"W, for 9.95 feet; thence S40°59'00"E, for 51.02 feet; thence S07°59'39"E, for 29.08 feet; thence S12°52'33"E, for 47.84 feet; thence S45°41'57"E, for 18.80 feet; thence N86°17'41"E, for 18.19 feet; thence S01°00'16"E, for 50.44 feet; thence S10°19'26"E, for 21.96 feet; thence S09°58'46"E, for 51.15 feet; thence S01°54'20"E, for 40.31 feet; thence S34°05'10"E, for 24.92 feet; thence S00°10'13"W, for 34.68 feet; thence S12°12'20"W, for 26.37 feet; thence S53°33'19"W, for 31.88 feet; thence S04°01'54"W, for 10.83 feet; thence S34°58'03"E, for 28.28 feet; thence S07°48'57"E, for 24.52 feet; thence S26°04'58"E, for 27.76 feet; thence S23°35'24"E, for 35.01 feet; thence S00°40'51"E, for 34.18 feet; thence S03°58'09"E, for 21.19 feet; thence N86°52'30"E, for 31.46 feet; thence S03°02'10"W, for 82.63 feet to the point of intersection with a non-tangent curve, concave Northerly; thence Easterly along the arc of said curve, with a radial bearing of N00°56'28"E, having a radius of 300.00 feet, a central angle of 18°09'00", an arc length of 95.51 feet, and a chord bearing N84°33'59"E, for 94.65 feet, to the point of intersection with a non-tangent line; thence S17°12'40"E, for 53.00 feet to the point of intersection with a non-tangent curve, concave Northerly; thence Easterly along the arc of said curve, with a radial bearing of N17°12'40"W, having a radius of 353.00 feet, a central angle of 02°09'45", an arc length of 13.32 feet, and a chord bearing N71°42'27"E, for 13.32 feet, to the point of intersection with a non-tangent line; thence S14°45'00"E, for 50.17 feet; thence S08°47'03"W, for 36.27 feet; thence S36°41'57"W, for 38.12 feet; thence S64°01'30"W, for 49.44 feet; thence S01°29'49"W, for 8.74 feet; thence S65°28'37"E, for 10.67 feet; thence S40°49'34"E, for 71.12 feet; thence S24°25'58"E, for 50.22 feet; thence S27°01'34"E, for 47.77 feet; thence S42°44'00"E, for 41.35 feet; thence S46°57'57"E, for 26.27 feet; thence S76°35'44"E, for 34.77 feet; thence S84°38'51"E, for 26.74 feet; thence S73°27'33"E, for 34.82 feet; thence S70°12'24"E, for 15.86 feet; thence N67°10'39"E, for 39.52 feet; thence S45°47'56"E, for 28.28 feet; thence N41°43'35"E, for 15.76 feet; thence N64°20'38"E, for 11.49 feet; thence N64°16'59"E, for 4.26 feet; thence N37°41'42"E, for 38.23 feet; thence S58°53'21"E, for 63.12 feet; thence S47°30'02"E, for 28.50 feet; thence S35°47'44"E, for 35.15 feet; thence S22°14'29"E, for 42.92 feet; thence N84°33'59"E, for 63.75 feet; thence N86°43'45"E, for 94.58 feet; thence S87°27'23"E, for 74.94 feet; thence S87°05'04"E, for 190.93 feet to the point of intersection with the Westerly Right-of-Way line of LITTLE ROAD as described in Official Records Book 1469, page 1422 of the Public Records of Pasco County, Florida; thence S00°39'53"W, along said Westerly Right-of-Way line of LITTLE ROAD, for 2,456.27 feet to the POINT OF BEGINNING.

Containing 13,207,514 Square feet or 303.203 Acres, more or less.

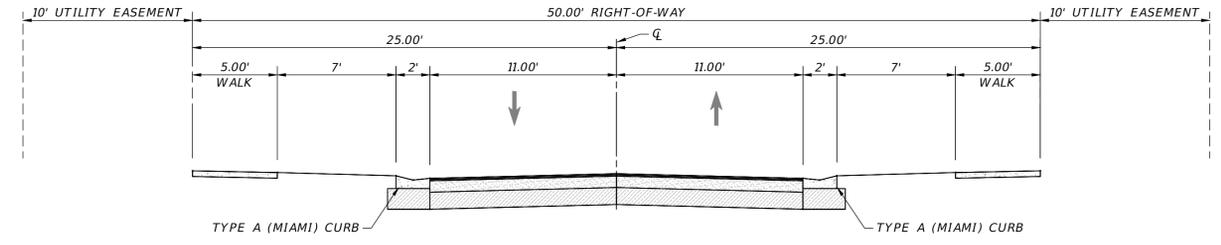
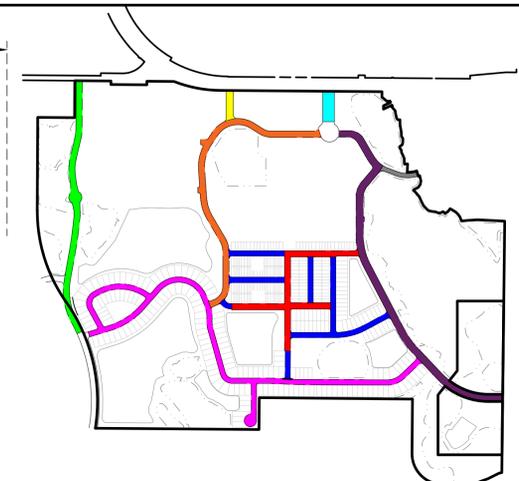
SITE DATA TABLE						
	TOTAL	UPLAND	WETLAND	LOTS	GROSS DENSITY	NET DENSITY
PHASE 1	3112 AC	17.69 AC	13.43 AC	25	0.80	1.41
PHASE 2	94.95 AC	66.86 AC	28.09 AC	260	2.73	3.89
PHASE 3	56.32 AC	50.39 AC	5.93 AC	117	2.08	2.29
PHASE 4	5103 AC	43.91 AC	7.12 AC	TBD	TBD	TBD
PHASE 5	8.17 AC	4.40 AC	3.77 AC	0	0	0
PHASE 6	9.38 AC	4.92 AC	4.46 AC	0	0	0
PHASE 7	7.79 AC	3.07 AC	4.72 AC	0	0	0
PHASE 8	7.24 AC	7.24 AC	0 AC	0	0	0
PHASE 9	2.60 AC	2.60 AC	0 AC	0	0	0
PHASE 10	34.60 AC	29.22 AC	5.38 AC	0	0	0
TOTAL	303.20AC	230.30AC	72.90 AC			

- NOTES:
- WETLAND AREA REFLECTS POST-DEVELOPMENT WETLAND AREA ONSITE.
 - RESIDENTIAL DENSITY IS BASED ON PHASES 1, 2, & 3. THE NUMBER OF RESIDENTIAL UNITS IN PHASE 4 WILL BE DETERMINED IN THE FUTURE WITH A MODIFICATION OF THIS PLAN.

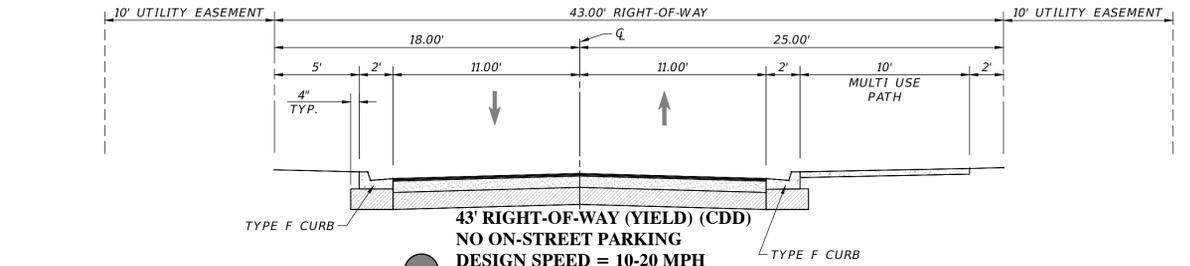
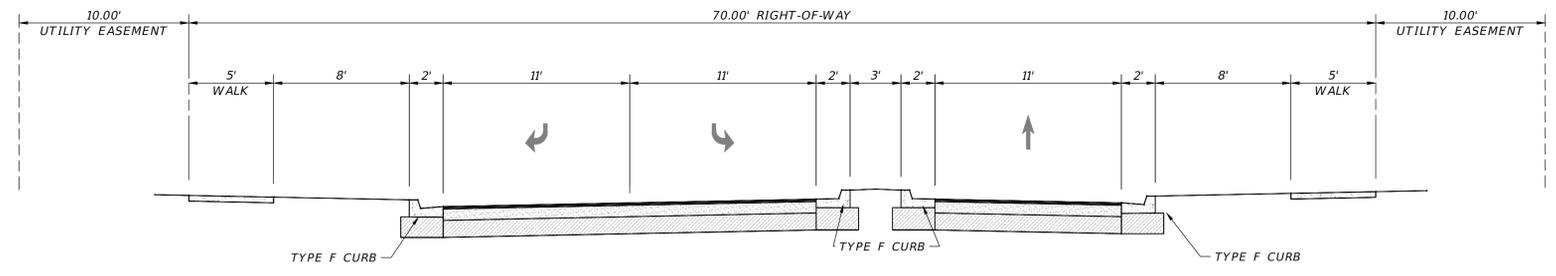
<p>Engineering Business C.A. No.: 28858 3010 W. Azeele St. Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975</p> <p>BRIAN G. SURAK State of Florida, Professional Engineer, License No. 59064 This form has been digitally signed</p>	
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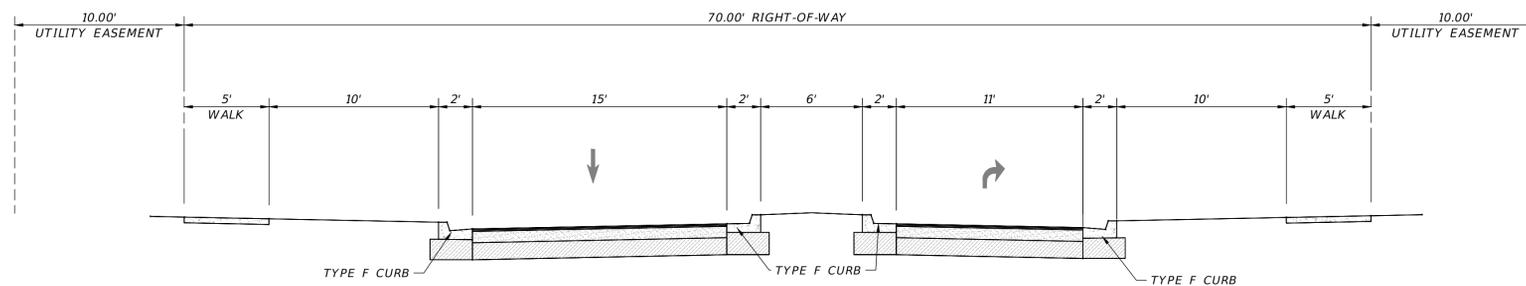
113' RIGHT-OF-WAY (SLOW) (CDD)
NO ON-STREET PARKING
DESIGN SPEED = 30-35 MPH
 SCALE: 1" = 5'



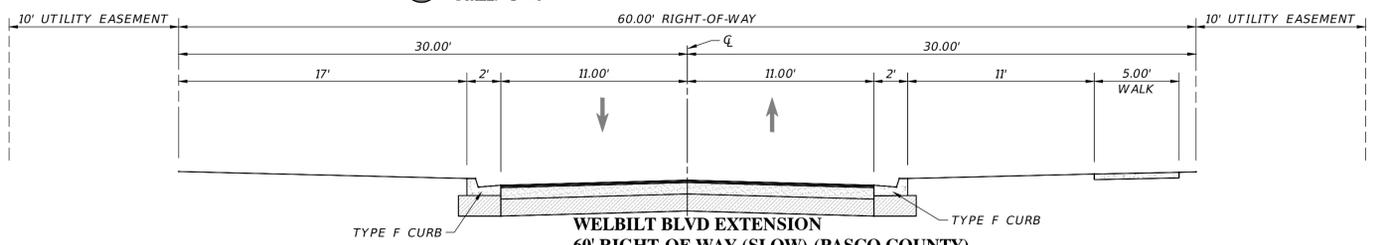
50' RIGHT-OF-WAY (YIELD) (CDD)
ON-STREET PARKING
DESIGN SPEED = 10-20 MPH
 SCALE: 1" = 5'



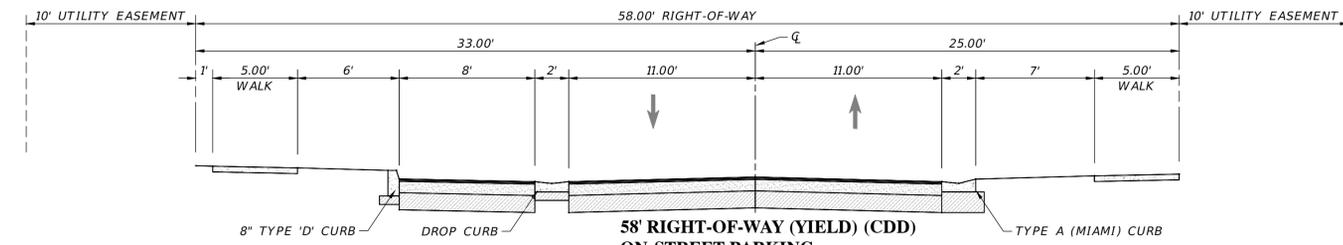
43' RIGHT-OF-WAY (YIELD) (CDD)
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 SCALE: 1" = 5'



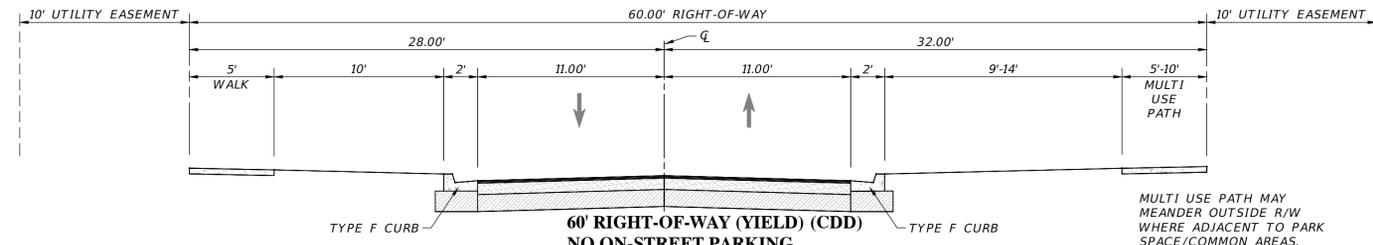
70' RIGHT-OF-WAY (SLOW) (CDD)
NO ON-STREET PARKING
DESIGN SPEED = 30-35 MPH
 SCALE: 1" = 5'



WELBILT BLVD EXTENSION
60' RIGHT-OF-WAY (SLOW) (PASCO COUNTY)
NO ON-STREET PARKING
DESIGN SPEED = 20-25 MPH
 SCALE: 1" = 5'

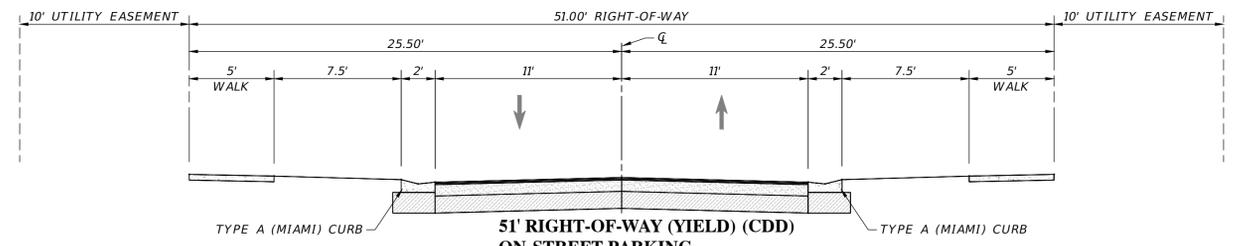


58' RIGHT-OF-WAY (YIELD) (CDD)
ON-STREET PARKING
DESIGN SPEED = 10-20 MPH
 SCALE: 1" = 5'

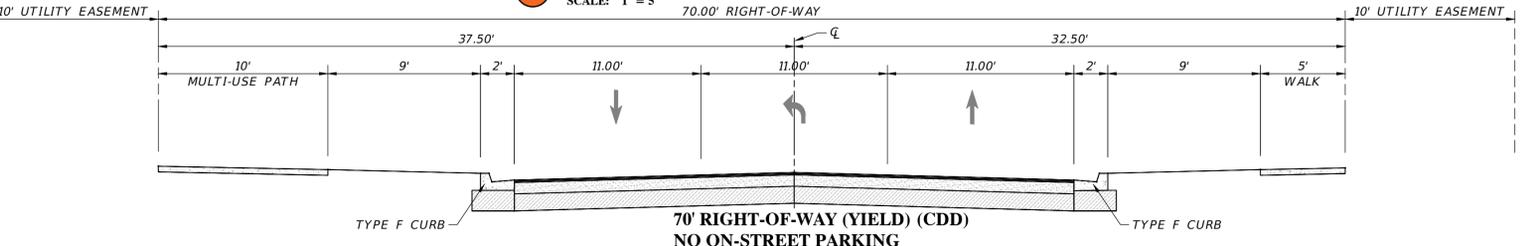


60' RIGHT-OF-WAY (YIELD) (CDD)
NO ON-STREET PARKING
DESIGN SPEED = 10-20 MPH
 SCALE: 1" = 5'

MULTI USE PATH MAY MEANDER OUTSIDE R/W WHERE ADJACENT TO PARK SPACE/COMMON AREAS.



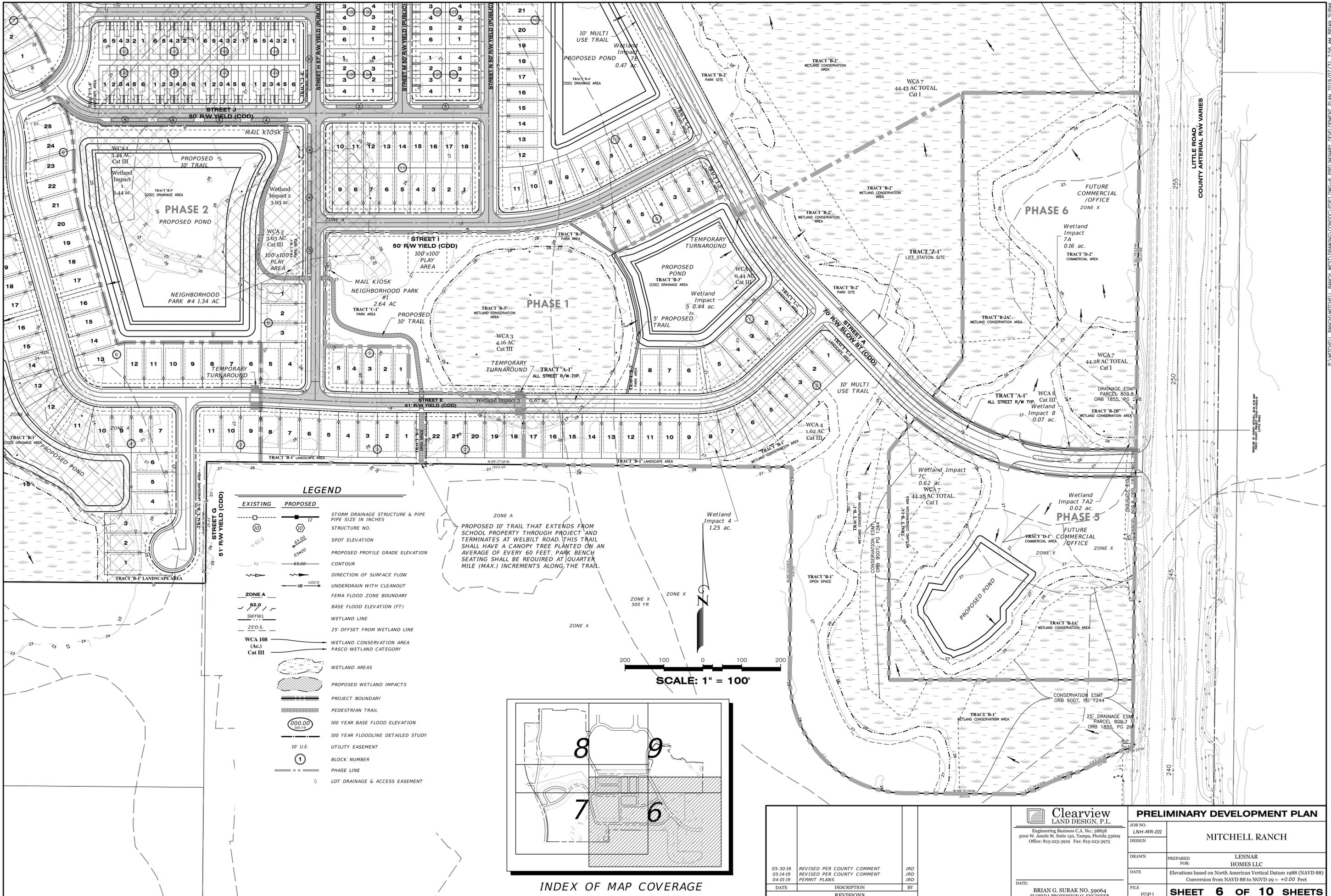
51' RIGHT-OF-WAY (YIELD) (CDD)
ON-STREET PARKING
DESIGN SPEED = 10-20 MPH
 SCALE: 1" = 5'



70' RIGHT-OF-WAY (YIELD) (CDD)
NO ON-STREET PARKING
DESIGN SPEED = 10-20 MPH
 SCALE: 1" = 5'

Clearview LAND DESIGN, P.L.			ROADWAY SECTIONS	
Engineering Business C.A. No.: 28858 3010 W. Azulee St. Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975 BRIAN G. SURAK State of Florida, Professional Engineer, License No. 59064 This item has been digitally signed and sealed by BRIAN G. SURAK 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. DATE: 07/21/2019 BRIAN G. SURAK NO. 59064 FLORIDA PROFESSIONAL ENGINEER			MITCHELL RANCH LENNAR HOMES LLC Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.00 Feet	
05-30-19	REVISED PER COUNTY COMMENT	JRD	JOB NO.	LNH-MR-011
05-14-19	REVISED PER COUNTY COMMENT	JRD	DESIGN	
04-01-19	PERMIT PLANS	JRD	DRAWN	FOR: LENNAR HOMES LLC
			DATE	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.00 Feet
			FILE	PDP ROADSECT
				SHEET 5 OF 10 SHEETS

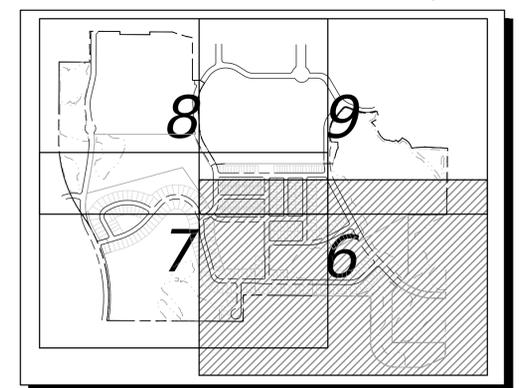
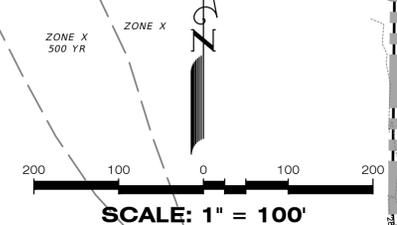
P:\MITCHELL RANCH\MITCHELL RANCH WEST\DRAWINGS\CONDO\PP\ROADSECT.DWG-5 ROADWAY SECTIONS 2019/07/31 7:55 AM BRIAN SURAK



LEGEND

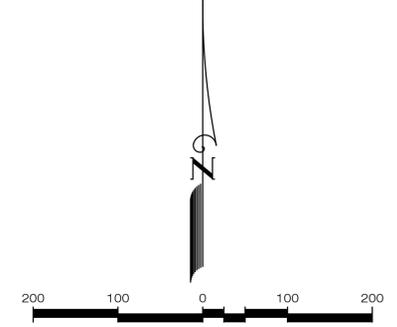
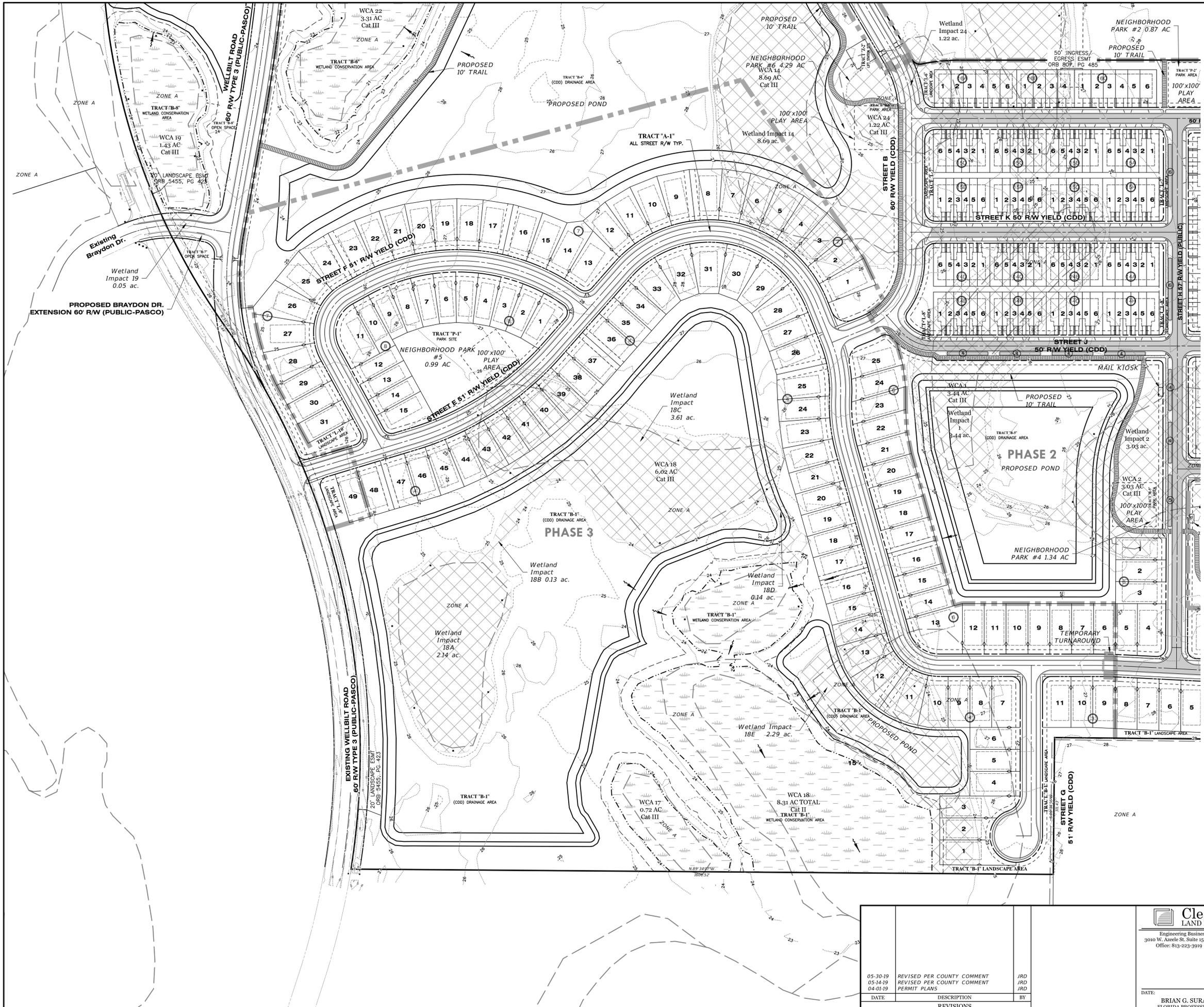
EXISTING	PROPOSED	DESCRIPTION
		STORM DRAINAGE STRUCTURE & PIPE PIPE SIZE IN INCHES STRUCTURE NO.
		SPOT ELEVATION
		PROPOSED PROFILE GRADE ELEVATION
		CONTOUR
		DIRECTION OF SURFACE FLOW
		UNDERDRAIN WITH CLEANOUT
		FEMA FLOOD ZONE BOUNDARY
		BASE FLOOD ELEVATION (FT)
		WETLAND LINE
		25' OFFSET FROM WETLAND LINE
		WETLAND CONSERVATION AREA PASCO WETLAND CATEGORY
		WETLAND AREAS
		PROPOSED WETLAND IMPACTS
		PROJECT BOUNDARY
		PEDESTRIAN TRAIL
		100 YEAR BASE FLOOD ELEVATION
		100 YEAR FLOODLINE DETAILED STUDY
		UTILITY EASEMENT
		BLOCK NUMBER
		PHASE LINE
		LOT DRAINAGE & ACCESS EASEMENT

PROPOSED 10' TRAIL THAT EXTENDS FROM SCHOOL PROPERTY THROUGH PROJECT AND TERMINATES AT WELBILT ROAD. THIS TRAIL SHALL HAVE A CANOPY TREE PLANTED ON AN AVERAGE OF EVERY 60 FEET. PARK BENCH SEATING SHALL BE REQUIRED AT QUARTER MILE (MAX.) INCREMENTS ALONG THE TRAIL.



Clearview LAND DESIGN, P.L. Engineering Business C.A. No.: 28858 3010 W. Azule St. Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975		PRELIMINARY DEVELOPMENT PLAN JOB NO. LNH-MR-011 DESIGN MITCHELL RANCH	
DRAWN: JRD PREPARED FOR: LENNAR HOMES LLC	DATE: Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.00 Feet	FILE: PDP1	SHEET 6 OF 10 SHEETS
05-30-19 REVISED PER COUNTY COMMENT 05-14-19 REVISED PER COUNTY COMMENT 04-01-19 PERMIT PLANS	JRD JRD JRD	DATE: BRIAN G. SURAK NO. 59064 FLORIDA PROFESSIONAL ENGINEER	
DATE DESCRIPTION REVISIONS BY			

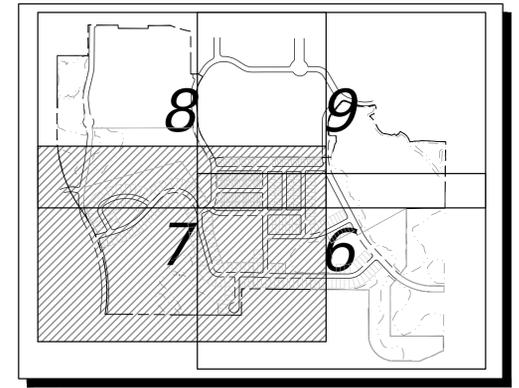
P:\MITCHELL_RANCH\MITCHELL_RANCH_WEST\DRAWING\CONDO\PDF\DWG-6 PRELIMINARY DEVELOPMENT PLAN 2019/07/31 7:56 AM BRIAN SURAK



SCALE: 1" = 100'

LEGEND

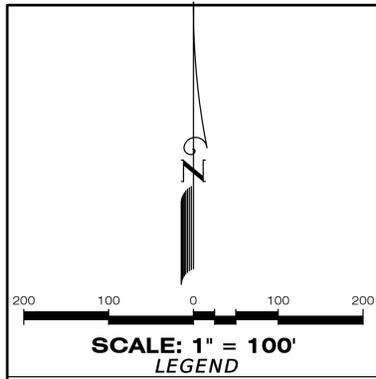
- | | | | | |
|--|-----------------|--|-----------------|---|
| | EXISTING | | PROPOSED | STORM DRAINAGE STRUCTURE & PIPE
PIPE SIZE IN INCHES
STRUCTURE NO. |
| | | | | SPOT ELEVATION
PROPOSED PROFILE GRADE ELEVATION |
| | | | | CONTOUR
DIRECTION OF SURFACE FLOW |
| | | | | UNDERDRAIN WITH CLEANOUT
FEMA FLOOD ZONE BOUNDARY |
| | | | | BASE FLOOD ELEVATION (FT)
WETLAND LINE |
| | | | | 25' OFFSET FROM WETLAND LINE |
| | | | | WETLAND CONSERVATION AREA
PASCO WETLAND CATEGORY |
| | | | | WETLAND AREAS
PROPOSED WETLAND IMPACTS |
| | | | | PROJECT BOUNDARY
PEDESTRIAN TRAIL |
| | | | | 100 YEAR BASE FLOOD ELEVATION
100 YEAR FLOODLINE DETAILED STUDY |
| | | | | UTILITY EASEMENT
BLOCK NUMBER |
| | | | | PHASE LINE
LOT DRAINAGE & ACCESS EASEMENT |



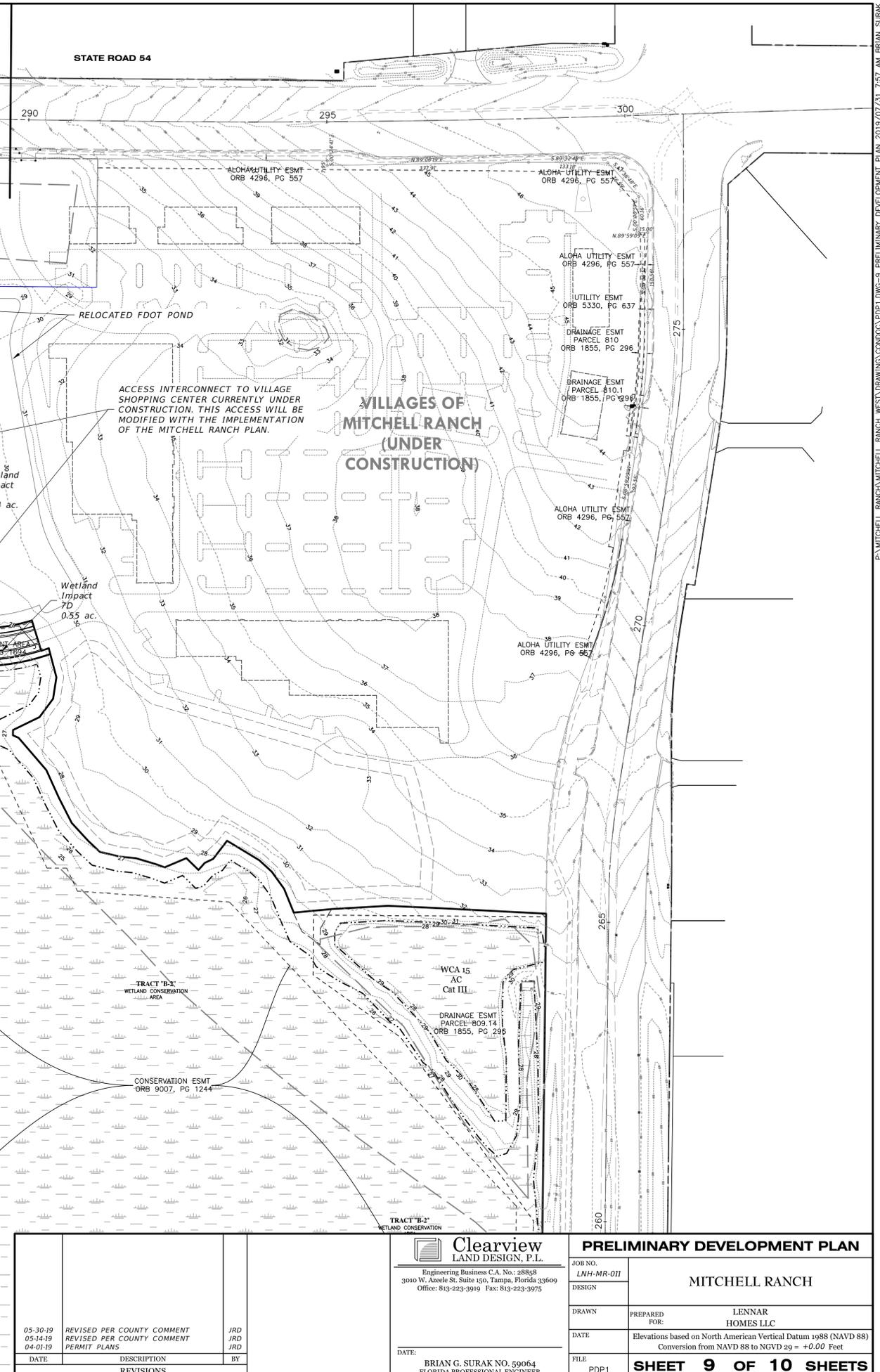
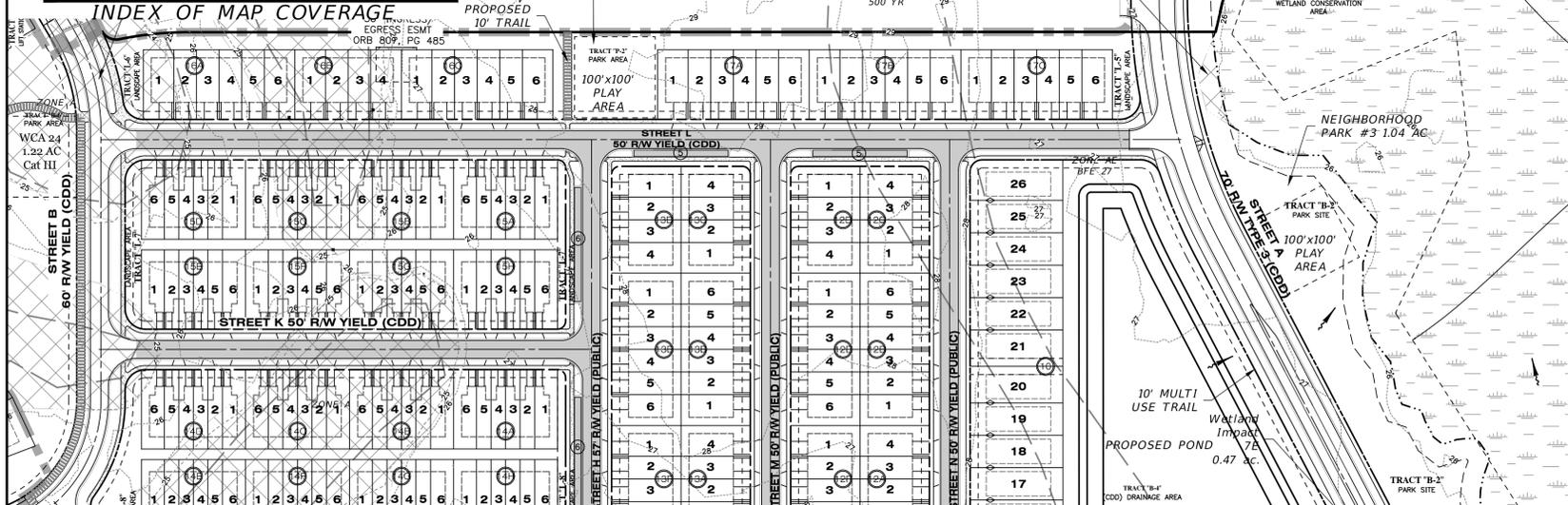
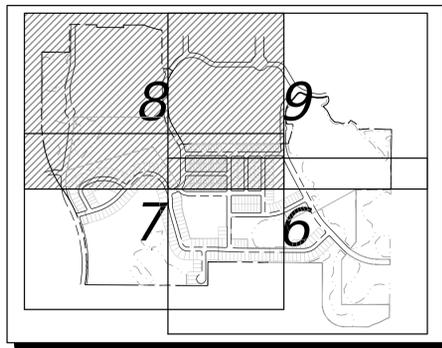
INDEX OF MAP COVERAGE

<p>05-30-19 REVISED PER COUNTY COMMENT JRD</p> <p>05-14-19 REVISED PER COUNTY COMMENT JRD</p> <p>04-01-19 PERMIT PLANS JRD</p>		<p>DATE DESCRIPTION BY</p> <p>REVISIONS</p>		<p>Clearview LAND DESIGN, P.L.</p> <p>Engineering Business C.A. No.: 28858 3010 W. Azulee St. Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975</p>		<p>PRELIMINARY DEVELOPMENT PLAN</p> <p>JOB NO. LN14-MR-011</p> <p>DESIGN MITCHELL RANCH</p>	
<p>DATE DESCRIPTION BY</p> <p>REVISIONS</p>		<p>DATE BRIAN G. SURAK NO. 59064 FLORIDA PROFESSIONAL ENGINEER</p>		<p>DRAWN FOR: LENNAR HOMES LLC</p> <p>DATE Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.00 Feet</p> <p>FILE SHEET 7 OF 10 SHEETS</p>			

P. MITCHELL RANCH/MITCHELL RANCH WEST DRAWING CONDOCC PDP1 DWG-7 PRELIMINARY DEVELOPMENT PLAN 2019/07/31 7:55 AM BRIAN SURAK

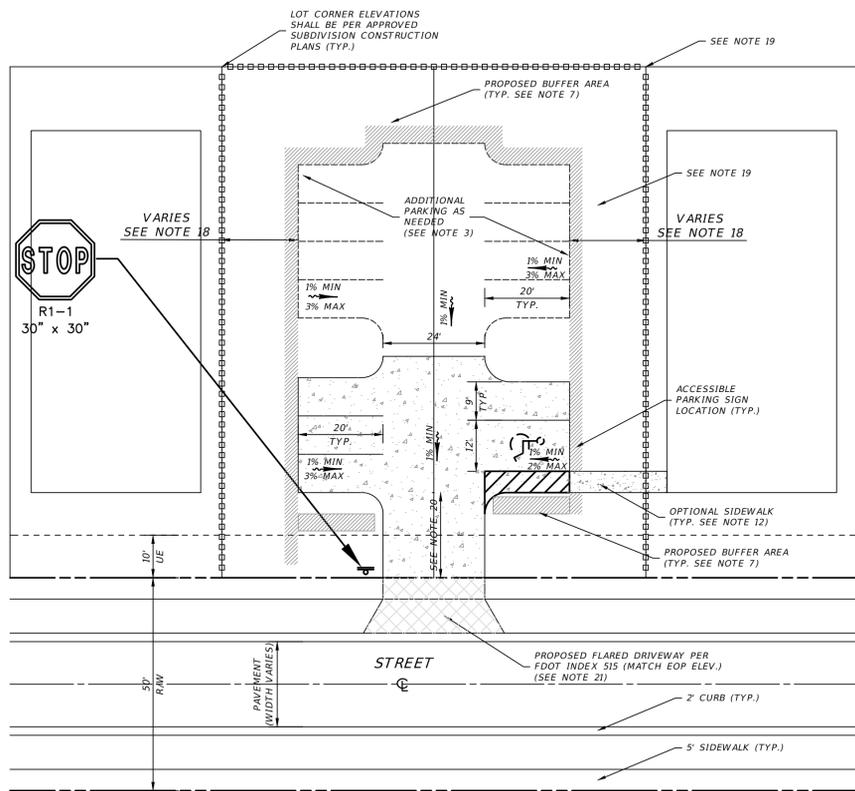


EXISTING	PROPOSED	DESCRIPTION
		STORM DRAINAGE STRUCTURE & PIPE PIPE SIZE IN INCHES STRUCTURE NO.
		SPOT ELEVATION PROPOSED PROFILE GRADE ELEVATION
		CONTOUR
		DIRECTION OF SURFACE FLOW
		UNDERDRAIN WITH CLEANOUT
		FEMA FLOOD ZONE BOUNDARY
		BASE FLOOD ELEVATION (FT)
		WETLAND LINE
		25' OFFSET FROM WETLAND LINE
		WCA 108 (Ac.) Cat III
		WETLAND CONSERVATION AREA PASCO WETLAND CATEGORY
		WETLAND AREAS
		PROPOSED WETLAND IMPACTS
		PROJECT BOUNDARY
		PEDESTRIAN TRAIL
		100 YEAR BASE FLOOD ELEVATION
		100 YEAR FLOODLINE DETAILED STUDY
		10' U.E. UTILITY EASEMENT
		BLOCK NUMBER
		PHASE LINE
		LOT DRAINAGE & ACCESS EASEMENT

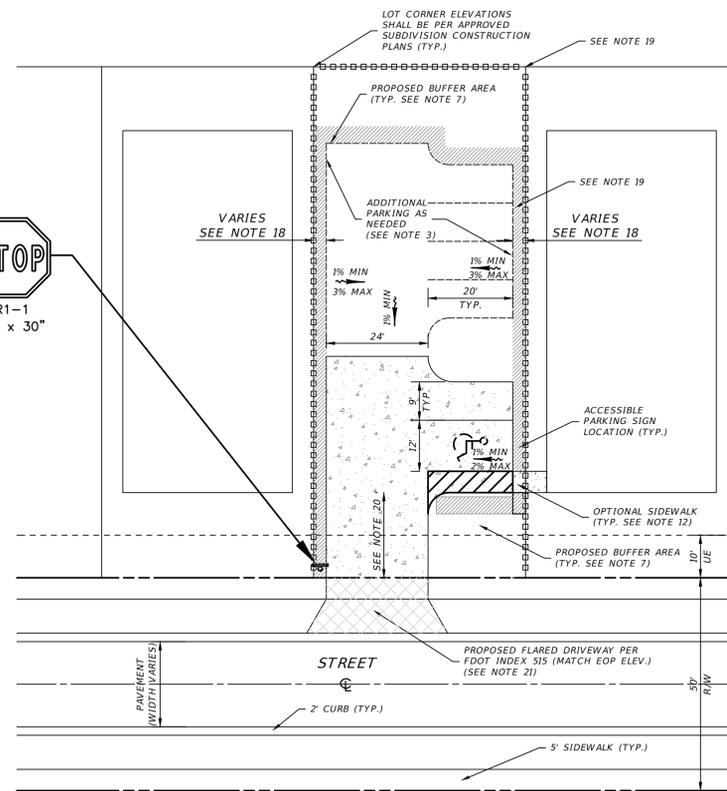


Clearview LAND DESIGN, P.L. Engineering Business C.A. No.: 28858 3010 W. Azalea St., Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975		PRELIMINARY DEVELOPMENT PLAN JOB NO. LNH-MR-011 DESIGN DRAWN FOR: LENNAR HOMES LLC DATE: Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.00 Feet FILE: PDP1	
DATE: BRIAN G. SURAK NO. 59064 FLORIDA PROFESSIONAL ENGINEER		SHEET 9 OF 10 SHEETS	
05-30-19 05-14-19 04-01-19	REVISED PER COUNTY COMMENT REVISED PER COUNTY COMMENT PERMIT PLANS	JRD JRD JRD	PREPARED FOR: BY:
DATE	DESCRIPTION	BY	REVISIONS

P:\MITCHELL RANCH\MITCHELL RANCH WEST\DRAWING\CONDOC\PDF\DWG-9 PRELIMINARY DEVELOPMENT PLAN 2019.07.31 7:57 AM BRIAN SURAK



**STANDARD LOT MODEL CENTER GRADING PLAN
DOUBLE LOADED PARKING LOT
SCALE 1"=20'**



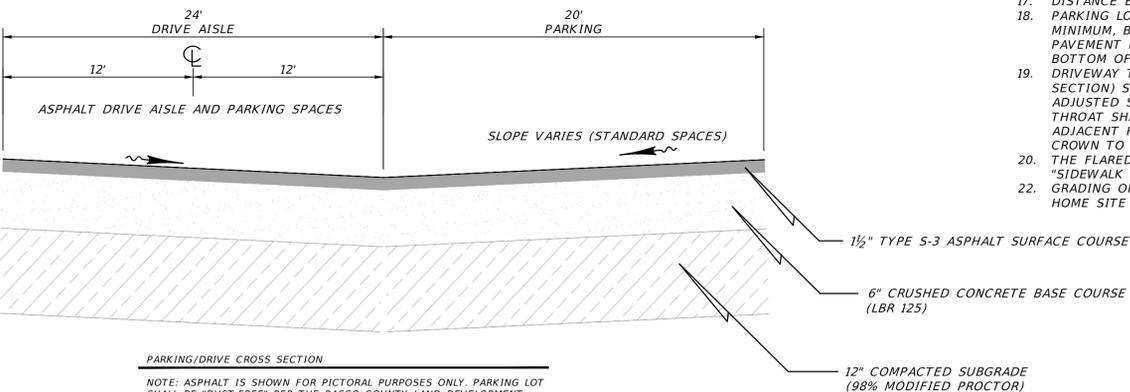
**STANDARD LOT MODEL CENTER GRADING PLAN
SINGLE LOADED PARKING LOT
SCALE 1"=20'**

- ASSUMPTIONS:**
1. PARKING LOT LAYOUT ASSUMES AN ARBITRARY NUMBER OF DESIRED PARKING SPACES. IF THE NUMBER OF MODELS PROPOSED REQUIRES FEWER, THE NUMBER MAY BE REDUCED IN ACCORDANCE WITH NOTES AND GRADES MUST BE PRO-RATED ACCORDINGLY. IF MORE SPACES ARE DESIRED OR REQUIRED DUE TO THE NUMBER OF MODELS PROPOSED, THEY MAY BE ADDED IN ACCORDANCE WITH THE LAYOUT SHOWN, WITH GRADES PRO-RATED ACCORDINGLY.
 2. IF SLOPE OF ROADWAY FRONTING MODEL CENTER PARKING AREA IS EXTREME (>3% LONGITUDINALLY), PARKING LOT SLOPES MAY NEED TO BE ADJUSTED OUTSIDE OF RANGES RECOMMENDED HEREON. HANDICAP ACCESSIBLE PARKING SPACE MUST STILL MEET APPLICABLE SLOPE CRITERIA.

- LEGEND**
- 4' HIGH OPAQUE BUFFER
 - SIDEWALK TO BE CONSTRUCTED ON A LOT-TO-LOT BASIS WITH MODEL HOMES
 - SIDEWALK TO BE CONSTRUCTED WITH PARKING AREA
 - PROPOSED PAVED PARKING MINIMUM 1 1/2" ASPHALT (SP-9.5) OR 4" CONCRETE (3000 PSI, FIBER REINFORCED)
 - PROPOSED PAVED PARKING 6" CONCRETE (3000 PSI, FIBER REINFORCED)

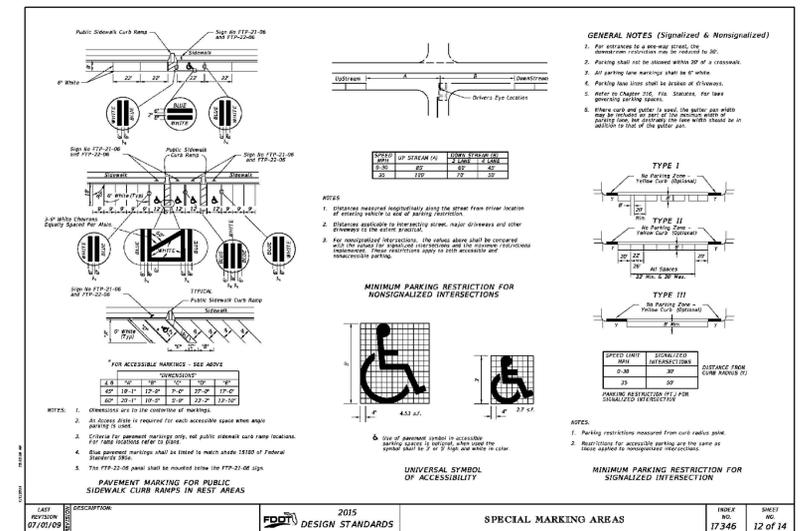
NOTES:

1. LAND USE DESIGNATION: PD ZONING: MPUD
2. PARKING SHALL BE PROVIDED AT A MINIMUM RATE OF 1 PARKING SPACE PER 2,500 SQUARE FEET OF MODEL HOME.
3. A MINIMUM OF 1 HANDICAP PARKING SPACE WITH ACCESS AISLE SHALL BE PROVIDED. IT SHALL BE CONSTRUCTED PER THE DETAIL "B" THIS SHEET AND SHALL BE CLEARLY MARKED WITH SIGNAGE AND PAVEMENT MARKING AS REQUIRED.
4. PARKING AREAS SHALL BE GRADED FOR PROPER DRAINAGE AND BE MAINTAINED IN A DUST-FREE CONDITION. PARKING SHALL BE ARRANGED TO PROVIDE FOR ORDERLY AND SAFE ACCESS.
5. SIDEWALKS REQUIRED BY THE MODEL CENTER PLANS SHALL BE INSTALLED PRIOR TO ISSUANCE OF A TEMPORARY CERTIFICATE OF OCCUPANCY FOR THE FIRST MODEL CENTER HOME.
6. SEWAGE SHALL BE CONNECTED TO THE PASCO SEWER SYSTEM. POTABLE WATER, SEWAGE, FIRE SERVICE AND ELECTRICAL WILL BE SUPPLIED BY THE UTILITY INFRASTRUCTURE. REFER TO CONSTRUCTION PLANS FOR LOCATIONS AND DETAILS.
7. PROPOSED BUFFERING OF PARKING FROM NON-MODEL CENTER AREAS SHALL BE 5' WIDE AND SHALL BE A PLANTING REACHING 4' HEIGHT AND 100% OPACITY. NOTE THAT ADDITIONAL BUFFERING MAY BE REQUIRED BEYOND THAT WHICH IS DEPICTED HEREON DEPENDING ON LOCATION OF ADJACENT NON-MODEL CENTER AREAS.
8. EROSION CONTROL FOR MODEL HOME LOTS SHALL BE PROPOSED BY AND INSTALLED BY HOME BUILDERS AS PART OF THE INDIVIDUAL BUILDING PERMITS.
9. THE PADS SHOWN HEREON ARE INTENDED TO INDICATE THE MAXIMUM BUILDING ENVELOPE THAT THE LOT WILL ACCOMMODATE AT MINIMUM SETBACKS. ACTUAL HOUSE FOOTPRINTS WILL BE DIFFERENT, BUT SHALL FIT WITHIN THESE MAXIMUM BUILDING ENVELOPES.
10. LIGHTING SHALL BE DESIGNED TO AVOID SPILL-OVER TO ADJOINING RESIDENCES AND THE PUBLIC RIGHT-OF-WAY.
11. CONCRETE PAVEMENT USED AS ACCESSIBLE PARKING ACCESS AISLES AND CONCRETE APRON FROM EDGE OF PAVEMENT IN RIGHT-OF-WAY SHALL BE 6" THICK, 3000 PSI CONCRETE.
12. THE SIDEWALKS SHOWN HEREON ARE INTENDED TO INDICATE THAT AN ADA ACCESSIBLE TRAVERSABLE PATH WILL BE ACCOMMODATED FOR ACCESS TO THE PROPOSED BUILDINGS. ACTUAL SIDEWALK ALIGNMENT COULD BE DIFFERENT. ONSITE SIDEWALKS ARE OPTIONAL; BUILDER MIGHT OPT TO CONNECT DIRECTLY TO SIDEWALK WITHIN THE LOCAL STREETS. SIDEWALK GRADING AND/OR ALIGNMENT MAY NEED TO BE FIELD ADJUSTED TO MEET ADA SLOPE CRITERIA (LONGITUDINAL SLOPE MAY NOT EXCEED 5% WITHOUT HANDRAILS AND CROSS-SLOPE SHALL NOT EXCEED 2%).
13. SELECT THE APPROPRIATE PARKING LOT GRADING PLAN BASED UPON THE SELECTED LOT SIZE AND PARKING CONFIGURATION. A SINGLE-LOADED PARKING LOT HAS A MINIMUM WIDTH OF 44 FEET (20' STALL PLUS 24' DRIVE AISLE), AND A DOUBLE-LOADED PARKING LOT HAS A MINIMUM WIDTH OF 64 FEET (TWO 20' STALLS PLUS A 24' DRIVE AISLE), SO PARKING LOTS MIGHT OCCUPY 2 LOTS DEPENDING ON LOT WIDTH AND DESIRED CONFIGURATION.
14. THE MINIMUM WIDTH OF LOT THAT CAN ACCOMMODATE A SINGLE-LOADED PARKING LOT ON A SINGLE LOT IS 50 FEET.
15. THE MINIMUM WIDTH LOT THAT CAN ACCOMMODATE A DOUBLE-LOADED PARKING LOT ON A SINGLE LOT IS 70 FEET.
16. PERIMETER LOT GRADES AND ADJACENT LOT PAD GRADES SHALL BE AS SHOWN ON THE APPROVED SUBDIVISION CONSTRUCTION PLANS.
17. DISTANCE BETWEEN EDGE OF PARKING LOT AND LOT LINE VARIES. THE MINIMUM DISTANCE IS 3 FEET.
18. PARKING LOT EDGE OF PAVEMENT ELEVATION GUIDELINES: (A) PARKING LOT EDGE OF PAVEMENT ELEVATIONS SHALL, AT A MINIMUM, BE 0.10 FEET ABOVE THE BOTTOM ELEVATION OF THE ADJACENT SIDE YARD SWALE; (B) PARKING LOT EDGE OF PAVEMENT ELEVATIONS SHALL NOT EXCEED AN ELEVATION THAT CAUSES THE SLOPE BETWEEN THE EDGE OF PAVEMENT AND THE BOTTOM OF THE SIDE YARD SWALE TO BE STEEPER THAN 1.5 VERTICAL -TO- 10 HORIZONTAL.
19. DRIVEWAY THROAT GRADING GUIDELINES: THE LONGITUDINAL PARKING LOT SLOPE (ALONG THE INVERT OF THE INVERTED CROWN SECTION) SHALL GENERALLY BE 1%. HOWEVER, THE 20-FOOT THROAT FROM RIGHT-OF-WAY TO FIRST PARKING STALL, SHALL BE ADJUSTED SUCH THAT THE GRADE MATCHES THAT OF AN FDOT-STANDARD FLARED TURN-OUT PER INDEX 515. THE SLOPE OF THE THROAT SHALL NOT EXCEED 9%, AND CARE SHALL BE TAKEN NOT TO EXCEED A SLOPE OF 2% IN ANY DIRECTION IN THE ADJACENT HANDICAP AISLE. FURTHER, THROUGH THE 20-FOOT THROAT, THE PAVEMENT SHALL TRANSITION FROM INVERTED CROWN TO SLANTED IN THE DIRECTION OF AND AT THE EQUIVALENT SLOPE OF THE ROADWAY.
20. THE FLARED DRIVEWAY TURNOUT SHALL BE PER FDOT INDEX 515 AND SHALL GENERALLY FOLLOW THE GRADING PROFILE FOR "SIDEWALK WITH UTILITY STRIP ON 0.02 SLOPE."
22. GRADING OF THE PARKING LOT AREA SHALL BE PER THE SUBDIVISION CONSTRUCTION PLANS WHEN THE LOT IS CONVERTED TO A HOME SITE



PARKING/DRIVE CROSS SECTION

NOTE: ASPHALT IS SHOWN FOR PICTORIAL PURPOSES ONLY. PARKING LOT SHALL BE "DUST-FREE" PER THE PASCO COUNTY LAND DEVELOPMENT CODE. DUST-FREE SURFACES MAY INCLUDE ASPHALT, CONCRETE, MULCH, ASPHALT MILLINGS, OR BRICK PAVERS, EXCEPT THAT HANDICAP PARKING SPACES SHALL BE A HARD, WHEELCHAIR-TRANSVERSABLE SURFACE, SUCH AS CONCRETE, ASPHALT, OR PAVERS.



NOTES:

1. ACCESS AISLE AND PARKING SPACE TO BE STRIPED AND MARKED PER FDOT INDEX 17346.
2. REFER TO SECT. 11-4.6 OF THE FLORIDA BUILDING CODE FOR PARKING AND PASSENGER LOADING ZONES.
3. REFER TO SECT. 4.6.2 OF THE FLORIDA BUILDING CODE FOR PARKING. *ACCESSIBLE PARKING SPACES SERVING A PARTICULAR BUILDING SHALL BE LOCATED ON THE SHORTEST SAFELY ACCESSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE ENTRANCE*.
4. STANDARD SPACES 9' X 20'; HANDICAP SPACE 12' X 20'.
5. RECOMMENDED ACCESSIBLE PARKING SPACE DESIGN IS GENERALIZED AND IS INCLUDED HEREIN FOR INFORMATIONAL PURPOSES. THE SPECIFIC CONFIGURATION FOR THIS PROJECT VARIES FROM IT IN THAT THE ACCESS AISLE IS INCORPORATED INTO THE ADJACENT SIDEWALK. ALL STRIPING AND DIMENSIONAL SPECIFICATIONS ON THIS DETAIL STILL APPLY.

Clearview LAND DESIGN, P.L. Engineering Business C.A. No.: 28858 3010 W. Azule St. Suite 150, Tampa, Florida 33609 Office: 813-223-3919 Fax: 813-223-3975		MODEL PARKING LOT DETAIL JOB NO: LNH-MR-011 DESIGN: SURAK DRAWN: DROOR DATE: 03-01-2019 FILE: MODEL PARKING		MITCHELL RANCH PREPARED FOR: LENNAR HOMES LLC Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = +0.00 Feet	
05-30-19 REVISED PER COUNTY COMMENT JRD 05-14-19 REVISED PER COUNTY COMMENT JRD 04-01-19 PERMIT PLANS JRD		BRIAN G. SURAK NO. 59064 FLORIDA PROFESSIONAL ENGINEER		INDEX 105 SHEET 12 OF 14	
REVISIONS		DATE		DESCRIPTION	

P:\MITCHELL RANCH\MITCHELL RANCH WEST\DRAWING\CONDO\MODEL PARKING.DWG-10 MODEL PARKING LOT DETAIL 2019/07/31 7:57 AM BRIAN SURAK