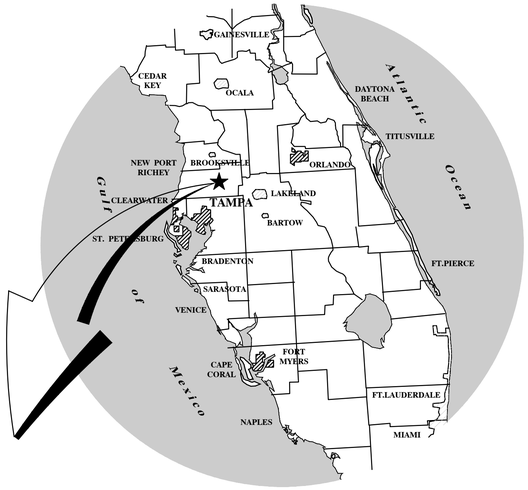
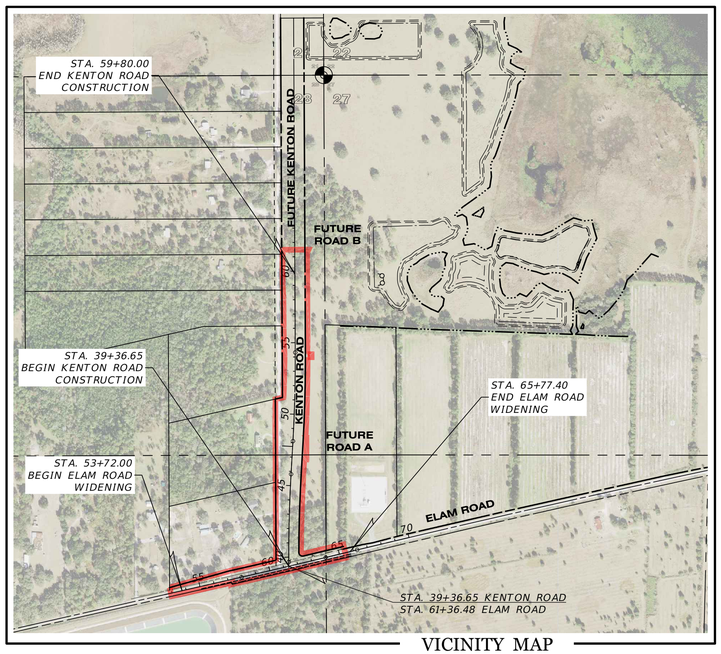


KENTON ROAD
1ST EXTENSION MODIFICATION

PRELIMINARY SITE PLAN
CONSTRUCTION & STORMWATER MANAGEMENT PLAN
SIMULTANEOUS SUBMITTAL (PSP / CP / SW)



VICINITY MAP
PASCO COUNTY, FLORIDA
SECTION 27 & 28, TOWNSHIP 25 SOUTH, RANGE 20 EAST

INDEX OF CONSTRUCTION PLANS

SHEET NO.	DESCRIPTION
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9	MASTER DRAINAGE PLAN
10	DRAINAGE MAP
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26-27	SIDEWALK, SIGNING & PAVEMENT MARKING DETAILS
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AP1-AP1	ADDRESS PLAN

THIS IS A MODIFICATION TO PREVIOUSLY APPROVED KENTON ROAD 1st EXTENSION

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

Date: 2026.01.15 16:15:39-05'00'
Jordan A. Schrader

PREPARED FOR:

PULTE HOME COMPANY, LLC
2662 S. Falkenberg Rd.
Riverview, Florida 33578

PREPARED BY:

Clearview LAND DESIGN, P.L.
Registered Business Number: RY28858
3010 W Azeele St., Suite 150, Tampa, Florida 33609
Office: 813-223-3919 Fax: 813-223-3975

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE FDOT DESIGN MANUAL 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.

PERMIT / FILE NOS.	
PASCO PDD PROJECT NO.	MOD of SITEPLN-2022-00148
PASCO COUNTY UTILITIES PROJECT NO.	MOD of PCU #21-113.02.A.1
SWFWMD ERP/APPLICATION ID NO.	43045142.004
WATER DEP	
SEWER DEP	
RECLAIMED WATER DEP	
PARCEL ID NO.	28-25-20-0000-00400-0010 28-25-20-0000-00400-0025 28-25-20-0000-00400-0026 28-25-20-0000-00400-0029 28-25-20-0000-00400-0040 28-25-20-0000-00400-0050 28-25-20-0000-00900-0000 28-25-20-0000-01000-0010 28-25-20-0000-49900-0010

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

UTILITY CONTACT INFORMATION

TONI CANNON
FRONTIER COMMUNICATIONS
3712 W WALNUT ST.
TAMPA, FL 33607
(813) 875-1014
toni.cannon@ftr.com

ED SIEDZIK
PASCO COUNTY UTILITIES
UTILITIES DEPT. PUBLIC WORKS BUILDING. S-205 7530 LITTLE RD
NEW PORT RICHEY, FL 34654
813-235-6189
esiedzik@pascocountyfl.net

MICHAEL GULVIN
WITHLACOOCHEE RIVER ELECTRIC COOPERATIVE
30461 COMMERCE DRIVE,
SAN ANTONIO, FL 33576
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mgulvin@wrec.net

JOAN DOMNING
TECO PEOPLES GAS-TAMPA
8416 PALM RIVER RD
TAMPA, FL 33619
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jdomning@tecoenergy.com

MIKE KIKER
CHARTER COMMUNICATIONS
30432 SR 54
WESLEY CHAPEL, FL 33543
(813) 862-0522

BILL MCCLOUD
CENTURYLINK
1325 BLAIRSTONE ROAD RM 113
TALLAHASSEE, FL 32301
(850) 599-1444

DATE	SHEET NO.	BY
01-15-2026	3,5,6	CSI
12-22-2025	4,5,6,9,15,16	MS
10-14-2025	MODIFICATION SUBMITTAL	MS

REVISIONS

KENTON ROAD
1ST EXTENSION MODIFICATION

This item has been digitally signed and sealed by JORDAN A. SCHRADER, P.E. on the date adjacent to the seal. Signature must be verified on any electronic copies.

DATE: 01/15/2026
JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

DATE: 01-15-2026
JOB NO. PHC-AP-007

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: OBRIEN	DESIGNED BY: BARRERA
DRAWN BY: OBRIEN	DRAWN BY: BARRERA
FILE: CV	SHEET 1 OF 34

☐ ISSUED FOR CONSTRUCTION (IF BOX UNCHECKED, PLANS ARE FOR REVIEW ONLY)

P:\APRILE\VENTON ROAD MODIFICATION\DRAWING\CONDOC\CV.DWG-COVER SHEET 2026/01/15 2:22 PM CLD ENGINEER01

Pasco County Landscaping Standard Notes (Pasco LDC 905.2)

1. *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 clearsight 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)*
2. *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)*
3. *All plant materials shall be Florida No. 1 grade per "Grades and Standards for Nursery Plants," Department of Agriculture and Consumer Services (FDACS), which is incorporated herein by reference. (LDC 905.2.C.2.a)*
4. *Groundcover plants shall be spaced to present a finished appearance and obtain a reasonably complete coverage within one (1) year. Non-living ground cover, such as mulch, gravel, rocks, etc., shall be used in conjunction with living plants so to cover exposed soil and suppress fugitive dust. (LDC 905.2.C.2.g)*
5. *All trees shall be planted according to the Florida Chapter, International Society of Arboriculture Standards for Planting, which is incorporated herein by reference. All trees must be maintained in good condition and planted in locations with adequate open space to allow for mature tree-canopy development. (LDC 905.2.C.3.b)*
6. *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)*
7. *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)*
8. *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)*
9. *All height requirements shall be based on the finished grade of the landscaped area and measured at the main stem. (LDC 905.2.C.3.f)*
10. *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)*
11. *All portions of each site, which are not devoted to buildings, sidewalks, paving, or special landscape features shall be grassed. However, no more than thirty (30) percent of the required landscape area may be grassed; the balance shall be landscaped in shrubs and ground cover plants. (LDC 905.2.D.1.a)*
12. *All required landscaping shall be maintained in a healthy condition in perpetuity in accordance with this Code. (LDC 905.2.E.2)*
13. *Ongoing maintenance to prevent the establishment of prohibited exotic species is required. (LDC 905.2.E.4)*

LEGAL DESCRIPTION:

DOWNEY RIGHT-OF-WAY PARCEL (AREA 7)
DESCRIPTION: Part of the Downey parcel recorded in Official Records Book 10463, Page 246, of the Public Records of Pasco County, Florida, lying in Section 28, Township 25 South, Range 20 East, Pasco County, Florida, and being more particularly described as follows:

COMMENCE at the Northeast corner of said Section 28, run thence along the North boundary of the Northeast 1/4 of said Section 28, S.89°41'45"W., a distance of 300.00 feet; thence along a line lying 300.00 feet West of and parallel with the East boundary of said Section 28, the following three (3) courses: 1) S.00°16'59"E., a distance of 2653.20 feet; 2) S.00°14'45"E., a distance of 179.20 feet to the Northeast corner of aforesaid Downey parcel, said corner also being the POINT OF BEGINNING; 3) continue S.00°14'45"E., a distance of 582.50 feet to the Southeast corner of said Downey parcel, also being a point on the Northerly maintained right of way of ELAM ROAD, according to Road Plat Book 2, Page 376 and Road Plat Book 3, Page 342, both of the Public Records of Pasco County, Florida; thence along said Northerly maintained right of way line, the following two (2) courses: 1) S.77°03'46"W., a distance of 764.21 feet to the Southwest corner of aforesaid Downey parcel; thence along the West boundary of said Downey parcel, N.00°17'40"W., a distance of 18.26 feet; thence N.74°26'35"E., a distance of 30.96 feet; thence Easterly, 231.73 feet along the arc of a non-tangent curve to the left having a radius of 49939.00 feet and a central angle of 00°15'50" (chord bearing N.77°04'50"E., 231.73 feet); thence Easterly, 5.87 feet along the arc of a compound curve to the left having a radius of 10.00 feet and a central angle of 33°36'36" (chord bearing N.60°05'07"E., 5.78 feet); thence along a line lying 50.00 feet West of and parallel with the East boundary of aforesaid Downey parcel, N.00°14'45"W., a distance of 543.23 feet to the North boundary of said Downey parcel; thence along said North boundary of the Downey parcel, N.77°14'03"E., a distance of 51.22 feet to the POINT OF BEGINNING.

Containing 1.228 acres, more or less.

APRILE PARCEL 1A
DESCRIPTION: A parcel of land lying in Sections 21, 22, 27, and 28, Township 25 South, Range 20 East, Pasco County, Florida, and being more particularly described as follows:
COMMENCE at the Northeast corner of said Section 28, run thence along the East boundary of the Northeast 1/4 of said Section 28, the following two (2) courses: 1) S.00°16'59"E., a distance of 1744.06 feet to the Northwest corner of Withlacoochee River Electric Cooperative parcel, according to Official Records Book 4911, Page 220, of the Public Records of Pasco County, Florida, said corner also being the POINT OF BEGINNING; 2) along the West boundary of said Withlacoochee River Electric Cooperative parcel, continue S.00°16'59"E., a distance of 909.35 feet to the East 1/4 corner of aforesaid Section 28; thence along the East boundary of the Southeast 1/4 of said Section 28, also being the said West boundary of said Withlacoochee River Electric Cooperative parcel, S.00°14'45"E., a distance of 15.00 feet; thence S.89°45'16"W., a distance of 163.99 feet; thence S.03°16'13"W., a distance of 123.85 feet to a point of curvature; thence Southerly, 597.91 feet along the arc of a tangent curve to the left having a radius of 9929.00 feet and a central angle of 03°27'01" (chord bearing S.01°32'42"W., 597.82 feet) to the Northerly maintained right of way line of ELAM ROAD, according to Road Plat Book 2, Page 376 and Road Plat Book 3, Page 342, both of the Public Records of Pasco County, Florida; thence along said Northerly maintained right of way line, S.76°36'05"W., a distance of 112.69 feet; thence along a line lying 300.00 feet West of and parallel with the East boundary of aforesaid Sections 28 and 21, the following three (3) courses: 1) N.00°14'45"W., a distance of 761.70 feet; 2) N.00°16'59"W., a distance of 2653.32 feet; 3) N.00°16'53"W., a distance of 399.88 feet; thence along a line lying 400.00 feet North of and parallel with the North boundary of aforesaid Sections 21 and 22, the following two (2) courses: 1) N.89°41'45"E., a distance of 300.77 feet; 2) N.89°57'47"E., a distance of 2816.79 feet to the East boundary of the Southwest 1/4 of aforesaid Section 22; thence along said East boundary of the Southwest 1/4 of Section 22, S.00°01'39"E., a distance of 400.00 feet to the North 1/4 corner of aforesaid Section 27; thence along the North boundary of the Northwest 1/4 of said Section 27, S.89°57'47"W., a distance of 449.33 feet to the Northwesterly corner of that certain parcel of land described in Official Records Book 10035, Page 2088, of the Public Records of Pasco County, Florida; thence along the Westerly boundary of said lands described in Official Records Book 10035, Page 2088, the following three (3) courses: 1) thence S.01°25'01"W., a distance of 1430.48 feet; 2) N.87°59'37"W., a distance of 226.16 feet; 3) S.00°16'59"E., a distance of 400.00 feet; thence along the Northerly boundary of aforesaid lands described in Official Records Book 10035, Page 2088, and the Northerly boundary of aforesaid Withlacoochee River Electric Cooperative parcel, N.87°54'39"W., a distance of 2099.82 feet to the POINT OF BEGINNING.
Containing 142.967 acres, more or less.

RIGHT OF WAY PARCEL (AREA 6)
DESCRIPTION: Part of the Stephenson parcel recorded in Official Records Book 8891, Page 633, of the Public Records of Pasco County, Florida, lying in Section 28, Township 25 South, Range 20 East, Pasco County, Florida, and being more particularly described as follows:
COMMENCE at the Northeast corner of said Section 28, run thence along the North boundary of the Northeast 1/4 of said Section 28, S.89°41'45"W., a distance of 300.00 feet; thence along a line lying 300.00 feet West of and parallel with the East boundary of said Section 28, the following three (3) courses: 1) S.00°16'59"E., a distance of 2250.96 feet to the Northeast corner of aforesaid Stephenson parcel, said corner also being the POINT OF BEGINNING; 2) continue S.00°16'59"E., a distance of 402.25 feet; 3) S.00°14'45"E., a distance of 179.20 feet to the Southeast corner of aforesaid Stephenson parcel; thence along the South boundary of said Stephenson parcel, S.77°14'03"W., a distance of 51.22 feet; thence along a line lying 50.00 feet West of and parallel with the East boundary of said Stephenson parcel, the following two (2) courses: 1) N.00°14'45"W., a distance of 190.27 feet; 2) N.00°16'59"W., a distance of 391.18 feet to the North boundary of aforesaid Stephenson parcel; thence along said North boundary of Stephenson parcel, N.77°14'03"E., a distance of 51.21 feet to the POINT OF BEGINNING.
Containing 0.667 acres, more or less.

RIGHT OF WAY PARCEL 1C
DESCRIPTION: A parcel of land lying in Section 28, Township 25 South, Range 20 East, Pasco County, Florida, and being more particularly described as follows:
COMMENCE at the Northeast corner of said Section 28, run thence along the East boundary of the Northeast 1/4 of said Section 28, S.00°16'59"E., a distance of 2653.41 feet to the East 1/4 corner thereof; thence along the East boundary of the Southeast 1/4 of said Section 28, the following two (2) courses: 1) S.00°14'45"E., a distance of 669.39 feet to the POINT OF BEGINNING; 2) S.00°14'45"E., a distance of 4.65 feet to the Northerly maintained right of way line of ELAM ROAD, according to Road Plat Book 2, Page 376 and Road Plat Book 3, Page 342, both of the Public Records of Pasco County, Florida; thence along said Northerly maintained right of way line, the following three (3) courses: 1) S.77°00'14"W., a distance of 2.88 feet; 2) S.00°19'58"E., a distance of 17.66 feet; 3) S.76°36'05"W., a distance of 192.54 feet; thence Northerly, 54.00 feet along the arc of a non-tangent curve to the right having a radius of 9929.00 feet and a central angle of 00°18'42" (chord bearing N.00°01'27"W., 54.00 to point of cusp; thence Southeasterly, 45.18 feet along the arc of a curve to the left having a radius of 25.00 feet and a central angle of 103°32'18" (chord bearing S.51°38'16"E., 39.28 feet) to a point of tangency; thence N.76°35'35"E., a distance of 163.66 feet to the POINT OF BEGINNING.

RIGHT OF WAY PARCEL (AREA 4)
DESCRIPTION: A parcel of land lying in Section 27, Township 25 South, Range 20 East, Pasco County, Florida, and being more particularly described as follows:
COMMENCE at the Northwest corner of said Section 27, run thence along the West boundary of the Northwest 1/4 of said Section 27, S.00°16'59"E., a distance of 2653.41 feet to the West 1/4 corner thereof; thence along the West boundary of the Southwest 1/4 of said Section 27, S.00°14'45"E., a distance of 669.39 feet to the POINT OF BEGINNING; thence N.76°35'35"E., a distance of 123.24 feet; thence along a line lying 120.00 feet East of and parallel with aforesaid West boundary of the Southwest 1/4 of Section 27, S.00°14'45"E., a distance of 18.48 feet to the Northerly maintained right of way line of ELAM ROAD, according to Road Plat Book 2, Page 376 and Road Plat Book 3, Page 342, both of the Public Records of Pasco County, Florida; thence along said Northerly maintained right of way line, the following three (3) courses: 1) S.76°43'14"W., a distance of 11.07 feet; 2) N.33°44'54"W., a distance of 13.54 feet; 3) S.77°00'14"W., a distance of 104.31 feet to a point on aforesaid West boundary of the Southwest 1/4 of Section 27; thence along said West boundary of the Southwest 1/4 of Section 27, N.00°14'45"W., a distance of 4.65 feet to the POINT OF BEGINNING.
Containing 0.018 acres, more or less.

GENERAL CONSTRUCTION NOTES:

1. *Prior to the start of clearing and grubbing, or any soil disturbance the contractor shall contact Pasco County Stormwater Management at (727) 834-3611 for a soil erosion and sediment control pre-inspection meeting.*
2. *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) 834-3611 for review prior to the erosion control measures pre inspection meeting. Contractor is also responsible for having his dewatering plan approved by SWFWMD.*
3. *All construction, materials and workmanship are to be in accordance with Pasco County Land Development Code and DOT Specifications, latest editions.*
4. *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.*
5. *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 making of adjustments to same, if required.*
6. *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.*
7. *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 seeding and mulching of the balance of the tracts (including pond berms, excluding the area below NW (SHWL)), sodding a minimum of 16" from the back of curb, and stabilizing all other areas within the project using sod or seed & mulch per 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.*
8. *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.*
9. *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.*
10. *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.*
11. *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.*
12. *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 other equipment of any kind within the dripline of a tree to remain on the site unless otherwise approved by the County.*
13. *All erosion control installation and installation coordination shall be the responsibility of the Contractor. Clearview Land Design, if contracted by the Owner, will stake 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.*
14. *Building downspouts to be directed to the on-site storm drainage system.*
15. *Future expansion areas, if disturbed, to be seeded and mulched or sodded to prevent erosion to existing pavement surfaces.*
16. *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:*
    - 16.1. *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.*
    - 16.2. *Take immediate measures to ensure no surface water drains into the affected areas.*
    - 16.3. *Visually inspect the affected area.*
    - 16.4. *Excavate and backfill or grout as required to fill the affected area and prevent further subsidence.*
    - 16.5. *Use soil reinforcement materials in the backfilling operation,when appropriate.*
    - 16.6. *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.*
    - 16.7. *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.*
    - 16.8. *Discharge of stormwater into depressions with direct or demonstrated hydrologic connection to the Floridan Aquifer shall be prohibited.*
17. *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.*
18. *The engineer responsible for the project shall certify to the County Engineering Services Director (thru PC 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.*
19. *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.*
20. *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.*
21. *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.*
22. *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.*
23. *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 1104) 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).*
24. *No construction activities including: clearing, grading, grubbing shall occur within the Wetland Upland Buffer as depicted on the approved project Construction Plans.*
25. *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 Contractors sole responsibility to reuse onsite soil materials as described and specified 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 Contractors failure to properly reuse soil materials onsite as specifically described below, will be the Contractors 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 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.

1. *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 or other demolition debris is considered an environmental/contamination hazard, 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.*
2. *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, which may be done on-site or disposed off-site,if allowed by 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:*
    - 2.1.1. *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;*
    - 2.1.2. *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 could be buried in temporarily excavated passive recreation/park areas (at least 30 feet from any structure) at approved depths/locations, all these disposal areas will require adequate soil mixing (mix soil with the mulch) and then refilling (with compaction) to required design grades;*
    - 2.1.3. *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;*
    - 2.1.4. *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.*
    - 2.2. *In all instances, the minimum pond depth (including floodplain and wetland mitigation areas) shall be no less than required by the Engineer.*
    - 2.3. *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/grassed 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.*
3. *Muck/Peat Organic Materials (Typically generated from wetland or lowland areas, or similar areas, permitted for impact or displacement, including excavation of unsuitable 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:*
    - 3.0.1. *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;*
    - 3.0.2. *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;*
    - 3.0.3. *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;*
    - 3.0.4. *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.*
    - 3.1. *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/organics 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/grassed area will occur.*
    - 3.2. *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.*
4. *Topsoils/Silt Strippings (Typically generated from upland areas, after demolition/clearing/grubbing/discing operations; stripping of surficial organics/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.)*
    - 4.1. *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:*
    - 4.1.1. *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;*
    - 4.1.2. *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 refilling (with compaction) to required design grades;*
    - 4.1.3. *placed along the bottom of selected floodplain mitigation ponds (not in side banks), not below the permitted excavation depth of the pond;*
    - 4.1.4. *placed along the bottom of selected deeper stormwater ponds (not in side banks), not below the permitted design depth.*
    - 4.2. *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/grassed area, or landscape berm will occur.*
    - 4.3. *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 organic debris disposal, and what approximate elevations will be the top and bottom of the organic debris.*
5. *Non-Structural Clayey Sand/Clay Materials (Typically generated from pond/lake excavations or from utility pipeline/manhole excavations; such clayey sand/clay materials, with typically 40% fines or more passing the No. 200 sieve, designated either SC, CL, CH or A-6 to A-7, per the Unified and AASHTO Soil Classification Systems, respectively; such clayey sand/clay materials being unsuitable or unacceptable for reuse by the Contractor as building pad fill, structural fill, roadway embankment fill, and pipeline or manhole excavation backfill.)*
    - 5.1. *If acceptable to the governing environmental agency, all such clayey sand/clay materials, if approved in writing first by the Owner/Geotechnical Consultant/Engineer, could be: 5.1.1. placed as fill in new (larger) landscape/grass common areas or landscape berm areas (with compaction), provide some surface drainage relief, use where infiltration and drainage is not an important issue, provide some surface sandy soils (min. of 18-inches) as directed by the Landscape Consultant for planting; stockpiling of such "clayey sand/clay materials" (amounts/locations), if acceptable, will be directed by the Owner/Landscape Consultant;*
    - 5.1.2. *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 clayey sand/clay 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 refilling (with compaction) to required design grades; and then placing a final lift of sandy soil materials (not clayey materials) for turbidity control and planting;*
    - 5.1.3. *placed along the bottom of selected floodplain mitigation ponds (not in side banks), not below the permitted excavation depth of the pond; however, a 12-inch layer (min.) of sand material overtop the clayey materials will be necessary for turbidity control.*
    - 5.1.4. *placed along the bottom of selected deeper stormwater ponds (not in side banks), not below the permitted design depth, however, a 12-inch layer (min.) of sand material overtop the clayey materials will be necessary for turbidity control.*
    - 5.2. *All clayey sand/clay 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/grassed area, or landscape berm will occur. 5.3. 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.*
6. *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 35% fines or less passing the No. 200 sieve, designated either SP, SP-SM, SM or SC, 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.)*
    - 6.1. *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 fill lift for acceptance by the Geotechnical Consultant, upon Contractor request, prior to the next fill lift being placed.*

SURVEY DATA:

Boundary survey, topographic survey, tree survey, improvement location and associated survey work shown hereon and used for design purposes is based upon the BOUNDARY, TOPOGRAPHIC & TREE SURVEY provided to JP Land Holdings, LLC by GeoPoint Surveying, Inc. 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.

Developer: *Pulte Home Company, LLC*
2662 S. Falkenberg Rd.
Riverview, FL 33578
alex.malecki@pultegroup.com

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

Surveyor: *GeoPoint Surveying Inc.*
213 Hobbs Street
Tampa FL, 33619
(813)248-8888
davidw@geopointsurvey.com

Landscape Architect: *RVi*
22 South Pack Square
Asheville, NC 28801
(828)683-8500
dcosslett@rviplanning.com

REFER TO MASTER DRAINAGE PLAN FOR WETLAND INFORMATION

DEWATERING NOTE

CONTRACTORS WILL CONTAIN THE DISCHARGE, AND IMPLEMENT METHODS NECESSARY TO ISOLATE THE DEWATERING AREAS, AND WILL PROVIDE A DEWATERING PLAN TO THE DISTRICT FOR REVIEW

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 UNADJUSTED EARTHWORK QUANTITIES

VOLUME:

SITE TO BE MASS GRADED UNDER PREVIOUS APPROVAL

GEOTECHNICAL REPORT:

THESE PLANS REFERENCE PROJECT NO. 21-4972.1, DATED MAY 9, 2022 PREPARED BY FES, INC. AND AVAILABLE UPON REQUEST.

DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

Clearview LAND DESIGN, P.L.
Registered Business Number: RY28858
3010 W Azeele St., Suite 150, Tampa, Florida 33609
Office: 813-223-3919 Fax: 813-223-3975

This item has been digitally signed and sealed by JORDAN A. SCHRADER, P.E. on the date adjacent to the seal. Signature must be verified on any electronic copies.

DATE: 01/15/2026
JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

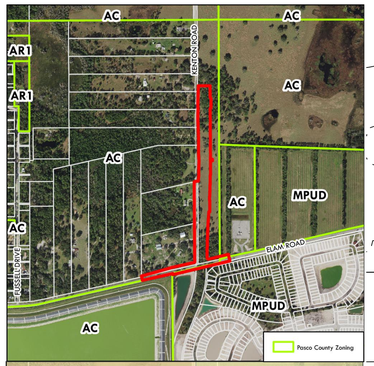
GENERAL NOTES

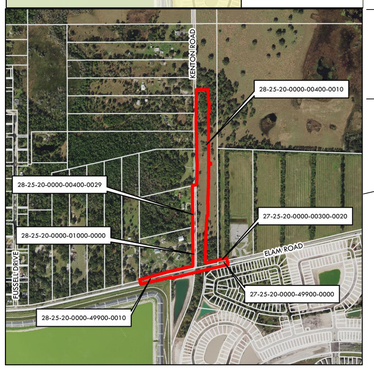
JOB NO.	PHC-AP-007
DESIGN	OBRIEN
DRAWN	OBRIEN
DATE	01-15-2026
FILE	GN

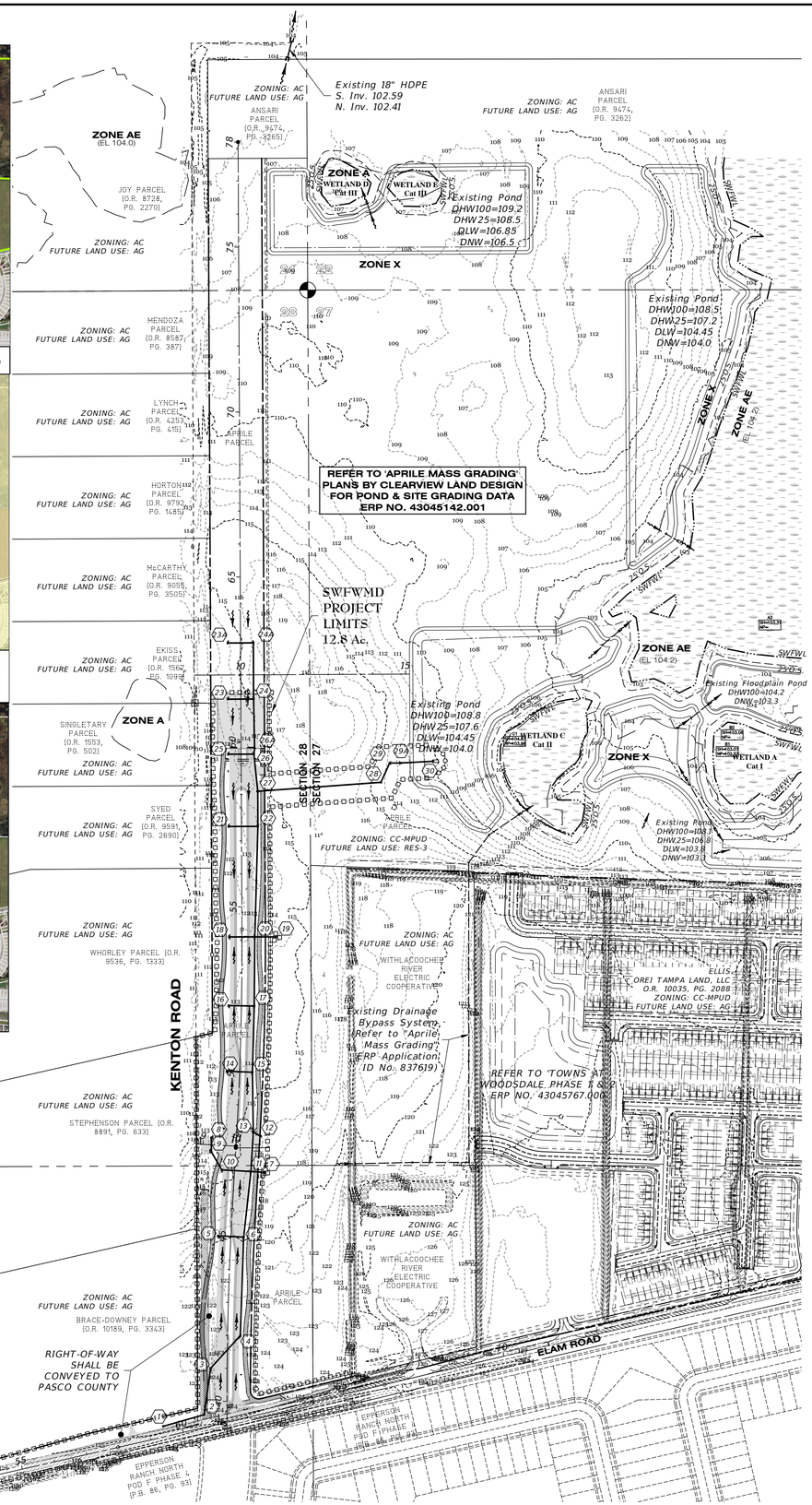
KENTON ROAD
1ST EXTENSION MODIFICATION

PREPARED FOR: PULTE HOME COMPANY, LLC

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



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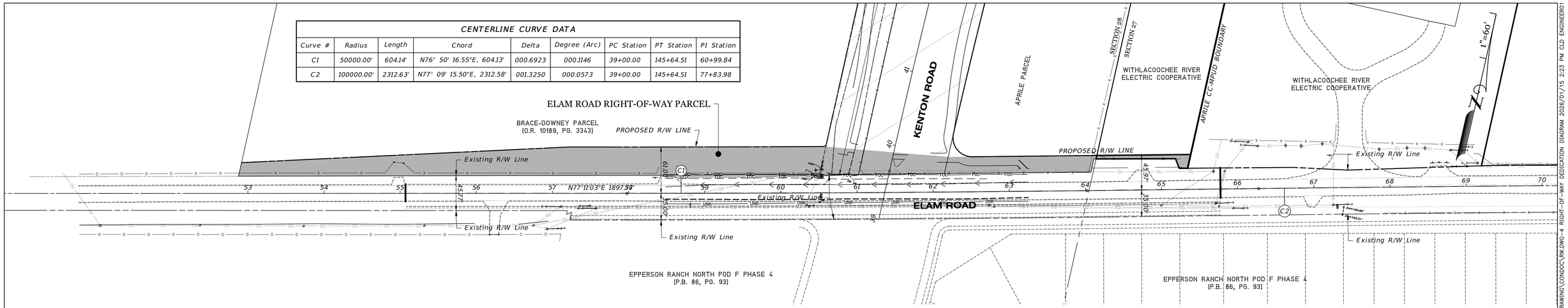
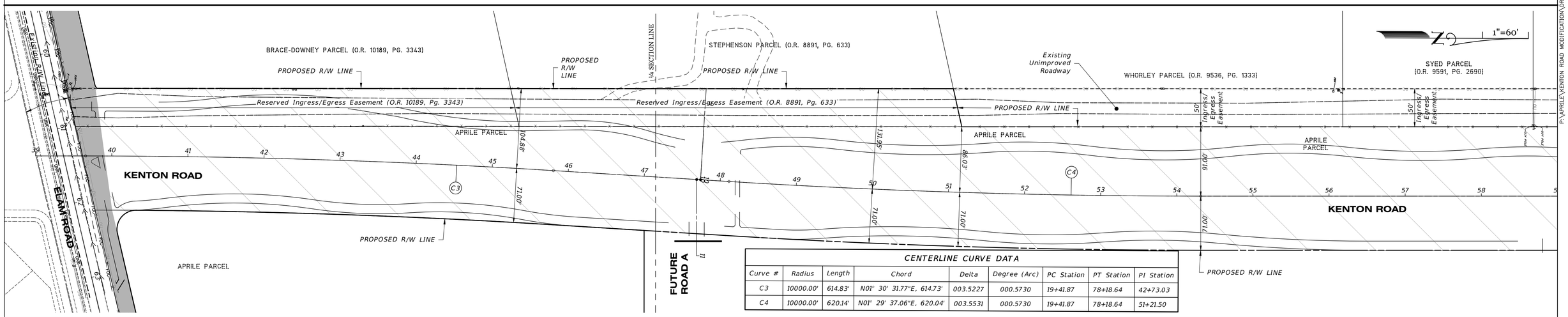
(EL 104.2)
ZONE A
ZONE X
ZONE A
ZONE X

CENTERLINE CURVE DATA

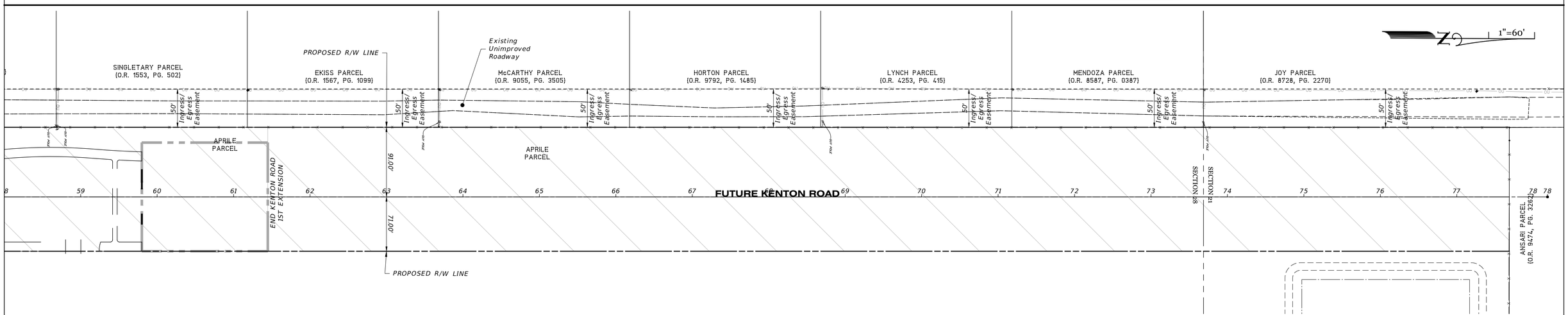
Curve #	Radius	Length	Chord	Delta	Degree (Arc)	PC Station	PT Station	PI Station
C1	50000.00'	604.14'	N76° 50' 16.55"E, 604.13'	000.6923	000.1146	39+00.00	145+64.51	60+99.84
C2	100000.00'	2312.63'	N77° 09' 15.50"E, 2312.58'	001.3250	000.0573	39+00.00	145+64.51	77+83.98





CENTERLINE CURVE DATA

Curve #	Radius	Length	Chord	Delta	Degree (Arc)	PC Station	PT Station	PI Station
C3	10000.00'	614.83'	N01° 30' 31.77"E, 614.73'	003.5227	000.5730	19+41.87	78+18.64	42+73.03
C4	10000.00'	620.14'	N01° 29' 37.06"E, 620.04'	003.5531	000.5730	19+41.87	78+18.64	51+21.50



DATE	DESCRIPTION	BY
12-22-2025	END OF CONSTRUCTION LINE FIXED	CSI
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

Clearview LAND DESIGN, P.L.
Registered Business Number: RY28858
3010 W Azeele St., Suite 150, Tampa, Florida 33609
Office: 813-223-3919 Fax: 813-223-3975

This item has been digitally signed and sealed by JORDAN A. SCHRADER, P.E. on the date adjacent to the seal. Signature must be verified on any electronic copies.

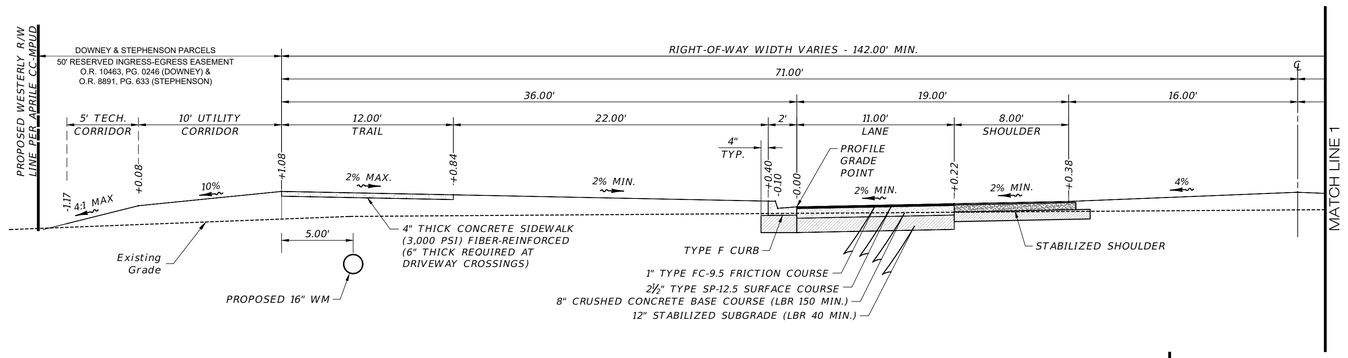
DATE: 01/15/2026

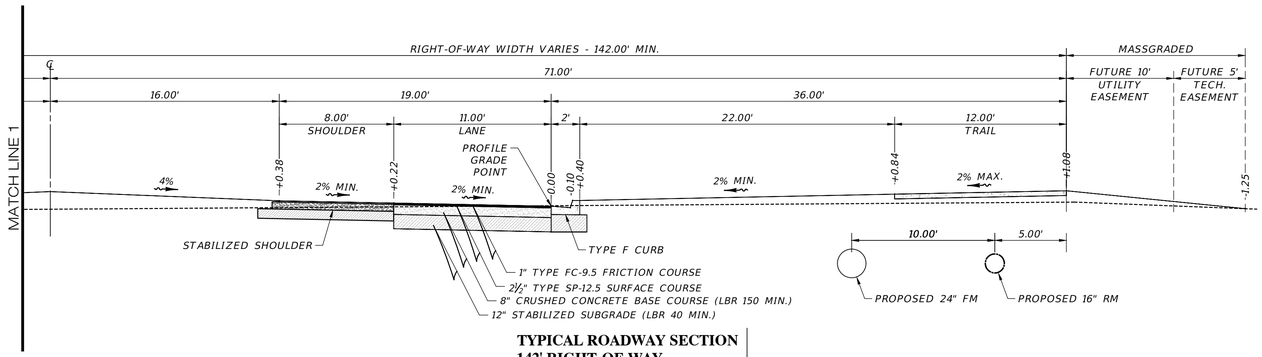
JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

RIGHT-OF-WAY DEDICATION DIAGRAM

JOB NO. PHC-AP-007	KENTON ROAD 1ST EXTENSION MODIFICATION
DESIGN OBRIEN	
DRAWN OBRIEN	PREPARED FOR: PULTE HOME COMPANY, LLC
DATE 01-15-2026	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = -0.84 Feet
FILE RW	SHEET 4 OF 34 SHEETS

P:\APRILE\KENTON ROAD MODIFICATION\DRAWING\CONDOC\RW.DWG-4 RIGHT-OF-WAY DEDICATION DIAGRAM 2026/01/15 2:23 PM CLD ENGINEER01

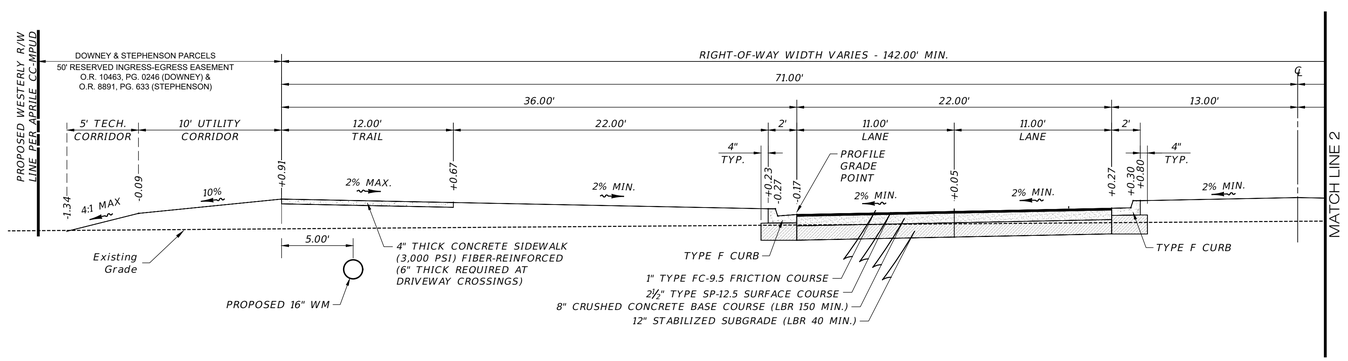


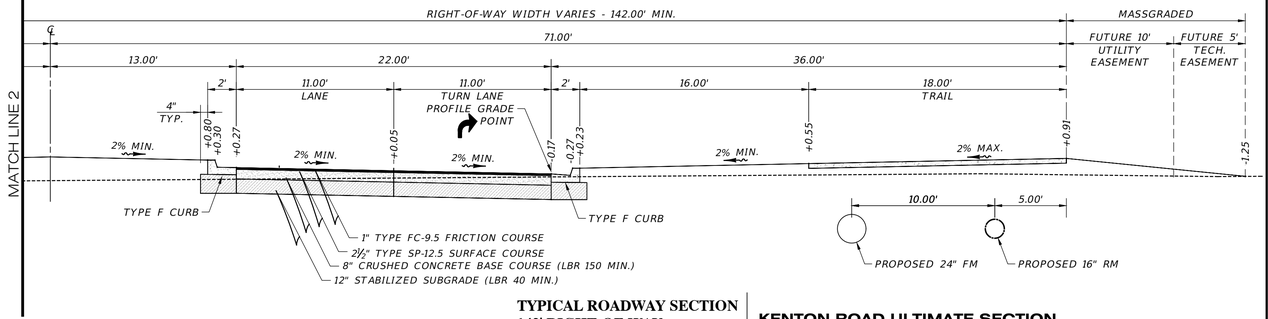


TYPICAL ROADWAY SECTION
142' RIGHT-OF-WAY
DESIGN SPEED = 45 MPH
POSTED SPEED = 35 MPH

SCALE: 1" = 5'

PROPOSED KENTON ROAD
STA. 39+87.30 TO STA. 51+18.73





TYPICAL ROADWAY SECTION
142' RIGHT-OF-WAY
DESIGN SPEED = 45 MPH
POSTED SPEED = 35 MPH

SCALE: 1" = 5'

KENTON ROAD ULTIMATE SECTION
STA. 39+87.30 TO STA. 51+18.73
(FOR REFERENCE ONLY)

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*

DATE	DESCRIPTION	BY
01-15-2026	FIXED CS LENGTHS AND DIMENSIONS	CSI
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

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DATE: 01/15/2026
JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

TYPICAL ROADWAY SECTIONS

JOB NO.	PHC-AP-007
DESIGN	OBRIEN
DRAWN	OBRIEN
DATE	01-15-2026
FILE	RS

KENTON ROAD
1ST EXTENSION MODIFICATION

PREPARED FOR: PULTE HOME COMPANY, LLC

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

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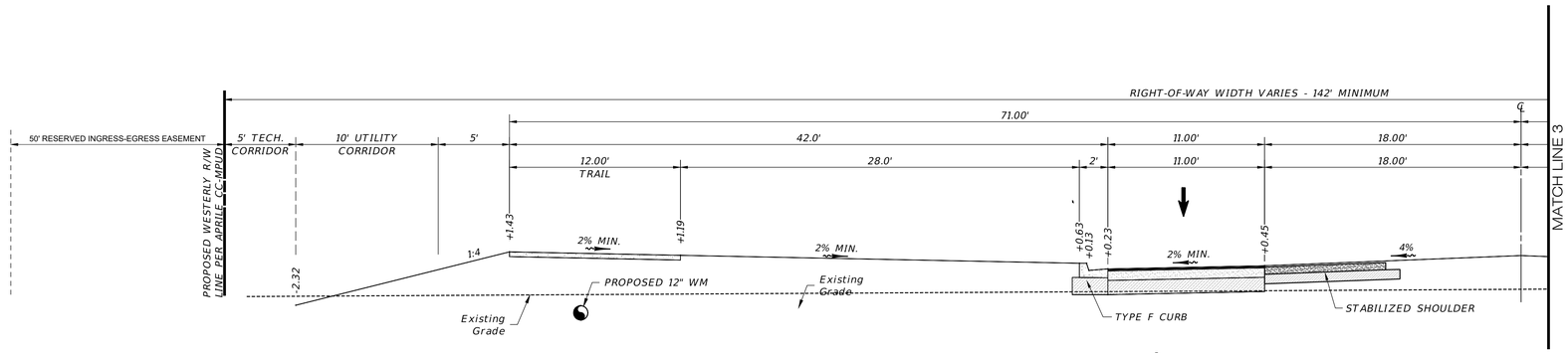
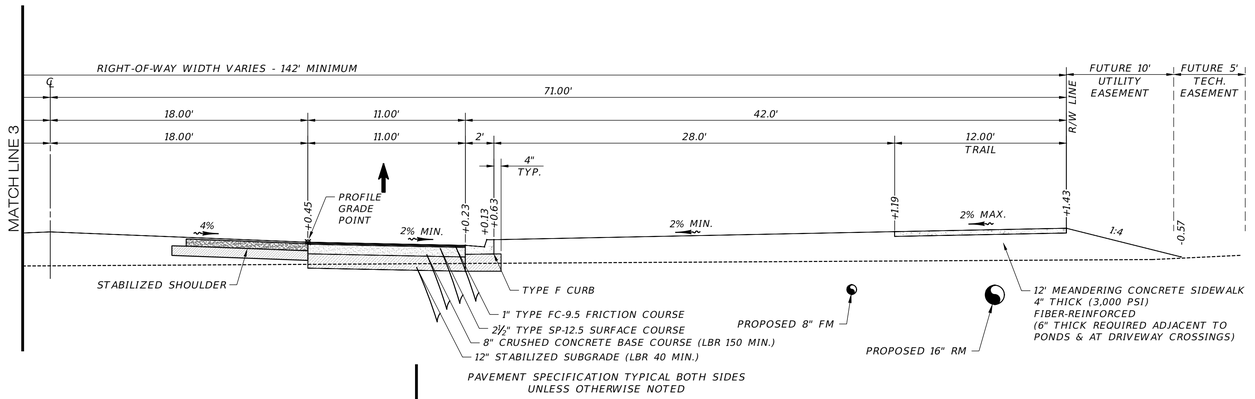
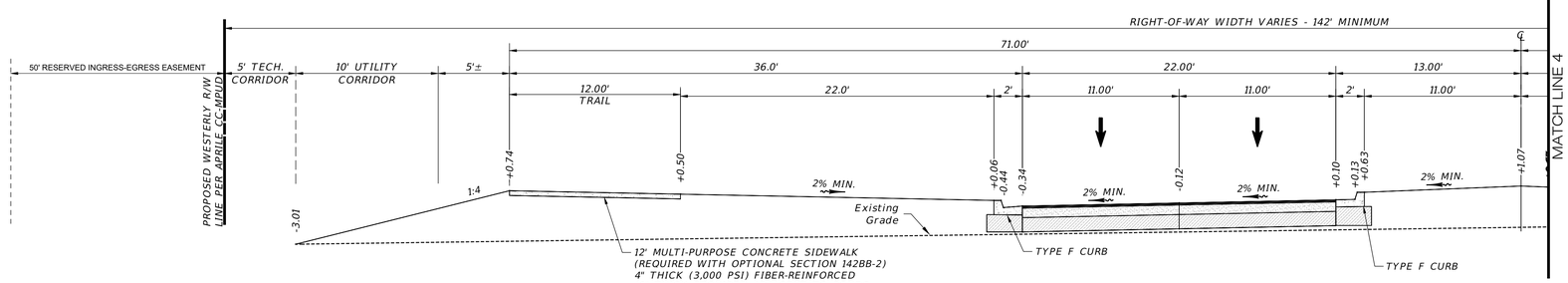


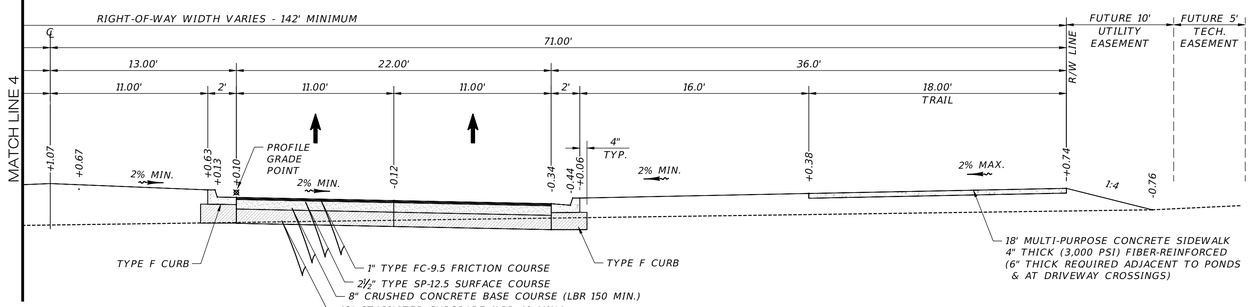


TYPICAL ROADWAY SECTION
CONNECTED CITIES 142AA
142' RIGHT-OF-WAY
DESIGN SPEED = 45 MPH
POSTED SPEED = 35 MPH

SCALE: 1" = 5'

PROPOSED KENTON ROAD
STA. 51+18.73 TO STA. 64+48.17





TYPICAL ROADWAY SECTION
CONNECTED CITIES 142BB-2
142' RIGHT-OF-WAY
DESIGN SPEED = 45 MPH
POSTED SPEED = 35 MPH

SCALE: 1" = 5'

KENTON ROAD ULTIMATE SECTION
STA. 51+18.73 TO STA. 64+48.17
(FOR REFERENCE ONLY)

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

DATE	DESCRIPTION	BY
01-15-2026	FIXED CS LENGTHS AND DIMENSIONS	CSI
12-22-2025	REVISED CROSS SECTIONS	CSI
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

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DATE: 01/15/2026
JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

TYPICAL ROADWAY SECTIONS

JOB NO.	PHC-AP-007
DESIGN	OBRIEN
DRAWN	OBRIEN
DATE	01-15-2026
FILE	RS

KENTON ROAD
1ST EXTENSION MODIFICATION

PREPARED FOR: PULTE HOME COMPANY, LLC

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

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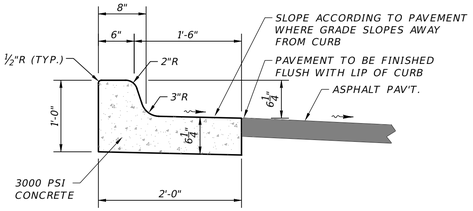
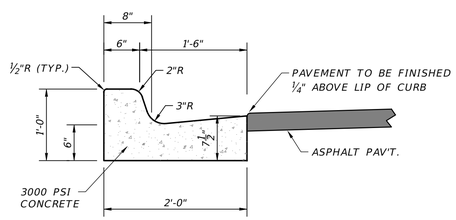


TYPE "F" CURB & GUTTER ROTATED (HIGH-SIDE)

SCALE: 1" = 1'



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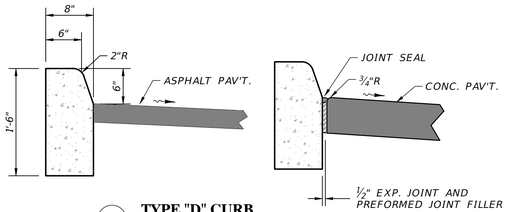

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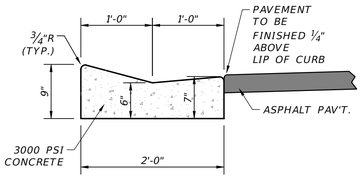
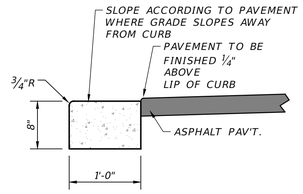


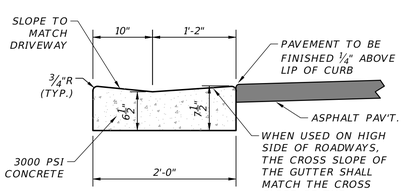
TYPE "A" CURB

SCALE: 1" = 1'



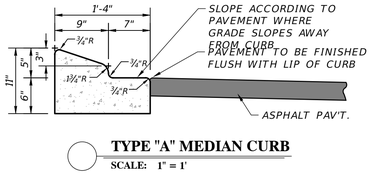
CONCRETE FLUSH CURB

SCALE: 1" = 1'



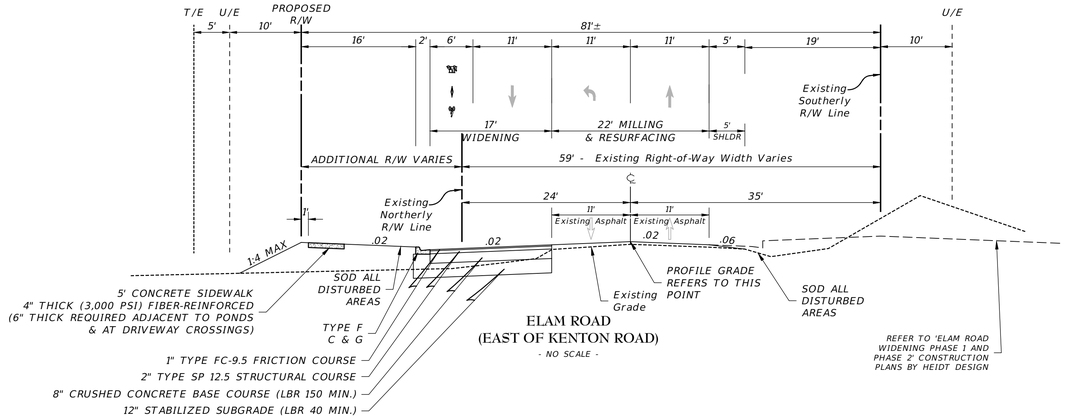
DROP CURB

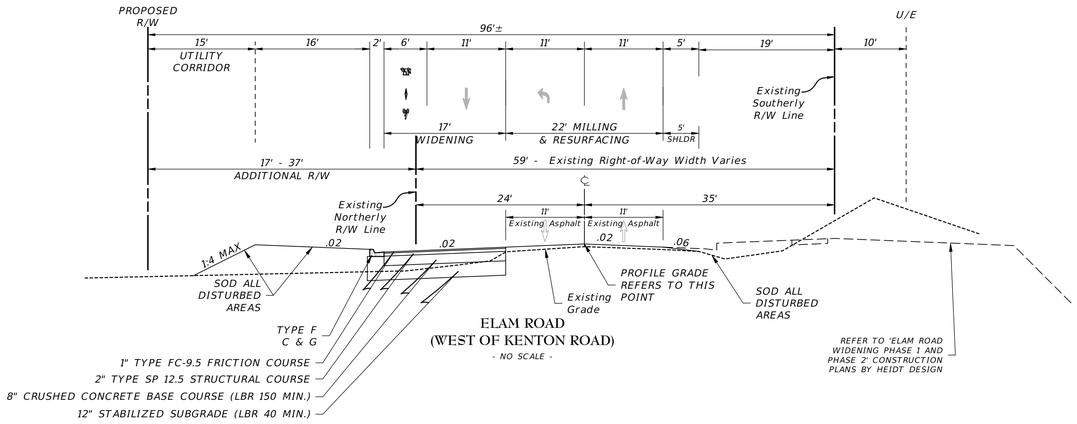
SCALE: 1" = 1'



TYPE "A" MEDIAN CURB

SCALE: 1" = 1'





ALL SECTIONS ARE CONSISTENT WITH THE CONNECTED CITY MASTER ROADWAY PLAN & APRILE CC-MPUD EXHIBIT B

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*

DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

Clearview LAND DESIGN, P.L.
Registered Business Number: RY28858
3010 W Azeele St., Suite 150, Tampa, Florida 33609
Office: 813-223-3919 Fax: 813-223-3975

This item has been digitally signed and sealed by JORDAN A. SCHRADER, P.E. on the date adjacent to the seal. Signature must be verified on any electronic copies.

DATE:01/15/2026

JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

TYPICAL ROADWAY SECTIONS

JOB NO. PHC-AP-007	KENTON ROAD 1ST EXTENSION MODIFICATION
DESIGN OBRIEN	
DRAWN OBRIEN	PREPARED FOR: PULTE HOME COMPANY, LLC
DATE 01-15-2026	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = -0.84 Feet
FILE RS	**SHEET 7 OF 34 SHEETS**

P:\APRILE\KENTON ROAD MODIFICATION\DRAWING\CIVIL\SHEETS\DWG-7 TYPICAL ROADWAY SECTIONS 2026/01/15 02:4 PM CLD ENGINEER

PASCO COUNTY CRUSHED CONCRETE BASE SPECIFICATIONS

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 1-T 180, 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	**PERCENT 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

BASE MATERIAL SHALL CONFORM TO THE FOLLOWING **PLASTICITY REQUIREMENTS**:

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 HAZARD 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.....1% BY WEIGHT
- BRICKS.....1% BY WEIGHT
- WOOD AND OTHER ORGANIC SUBSTANCES.....0.5% BY WEIGHT
- HEAVY METALS (EXCEPT LEAD).....0.1% BY WEIGHT
- LEAD.....5 PARTS PER MILLION
- REINFORCED STEEL AND WELDED WIRE 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 ADDITIVE MATERIAL AS MAY BE APPROVED BY THE COUNTY ENGINEER FOR THE PURPOSE OF FACILITATING CONSTRUCTION AND ACHIEVING THE DESIRED CHARACTERISTICS OF THE FINISHED IN-PLACED 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.

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	CRUSHED - CONCRETE BASE SPECIFICATIONS	Sheet No. 1 of 2
	APPROVED BY JCW; BCC APPROVAL —; REVISED —	Index No. 104

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 COURSE 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.** PLACE 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 COMPACTION 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 IT'S 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) (FM1-T027) INCLUDING A PLASTICITY INDEX (FM-T090) (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 C-136) SHALL BE SUBMITTED PER 500 FEET OF ROAD PER DAY PER MIX DESIGN; MINIMUM ONE PER ROAD.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING PERFORMED IN CONNECTION WITH CONSTRUCTION OF THE BASE.

CORRECTION OF DEFECTS

ALL SEGREGATED AREAS OF FINE OR COURSE CRUSHED CONCRETE SHALL BE REMOVED AND REPLACED WITH PROPERLY GRADED RECLAIMED CONCRETE AGGREGATE BASE MATERIAL. ALL DEFECTS IN MATERIALS AND CONSTRUCTION SHALL BE CORRECTED BY THE CONTRACTOR, AT HIS EXPENSE, AND TO THE SATISFACTION OF THE COUNTY ENGINEER.

PRIMING AND MAINTENANCE

APPLY THE PRIME COAT ONLY WHEN THE BASE MEETS THE SPECIFIED DENSITY REQUIREMENTS AND WHEN THE MOISTURE CONTENT. AT THE TIME OF PRIMING, ENSURE THAT THE BASE IS FIRM, UNYIELDING AND IN SUCH CONDITION THAT NO UNDUE DISTORTION WILL OCCUR. MAINTAIN THE TRUE CROWN AND TEMPLATE, WITH NO RUTTING OR DISTORTION, WHILE APPLYING THE SURFACE COURSE.

PASCO COUNTY TESTING SPECIFICATIONS ON CRUSHED CONCRETE BASE

TESTS FOR BASE THICKNESS, AND DENSITY SHALL BE LOCATED NO MORE THAN THREE HUNDRED (300) FEET APART AND SHALL BE STAGGERED TO THE LEFT, RIGHT, AND ON THE CENTERLINE OF ROADWAY. THERE SHALL BE NO LESS THAN ONE (1) TEST PER STREET. BEARING VALUE, GRADATION AND FIELD TEST FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES (ASTM C-136) SHALL BE NO MORE THAN FIVE HUNDRED (500) FEET.

EXAMPLE: A SEVEN HUNDRED FEET ROAD WOULD REQUIRE TWO FIELD LBR AND GRADATION TESTS, THREE FIELD DENSITY AND THICKNESS TESTS ALONG WITH THE APPROPRIATE LAB TESTING.

NOTE:
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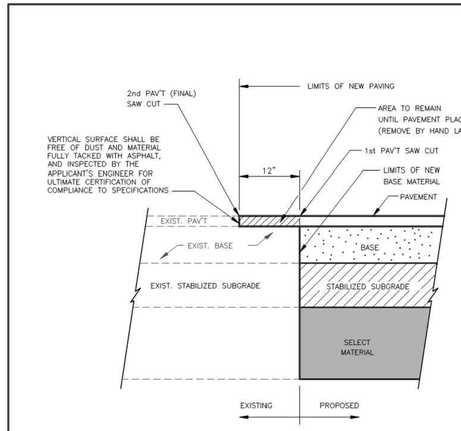
ANY PROPOSED ALTERATIONS SHALL BE CLEARLY IDENTIFIED AND HIGHLIGHTED ON DETAIL.

PASCO COUNTY ENGINEERING SERVICES — DESIGN STANDARDS	CRUSHED - CONCRETE BASE SPECIFICATIONS	Sheet No. 2 of 2
	APPROVED BY JCW; BCC APPROVAL —; REVISED —	Index No. 104



SECTIONAL VIEW
NTS

NOTES:

1. THE DEVELOPER'S ENGINEER SHALL INVESTIGATE THE EXISTING PAVEMENT LAYER TYPES AND DEPTHS BY RESEARCHING "RECORD/AS-BUILT DRAWINGS" AND/OR PERFORM GEOTECHNICAL BORINGS.
2. THE NEW PAVEMENT SHALL PROVIDE THE MINIMUM STRUCTURAL NUMBER AS FOLLOWS: TYPE 2 - 2.34, TYPE 1 - 3.50, COLLECTOR 3.70, ARTERIAL 4.00.

NOTE:
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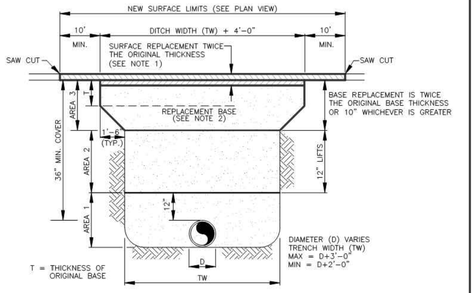
ANY PROPOSED ALTERATIONS SHALL BE CLEARLY IDENTIFIED AND HIGHLIGHTED ON DETAIL.

PASCO COUNTY ENGINEERING SERVICES — DESIGN STANDARDS	PAVEMENT TIE-IN SAW CUT DETAIL	Sheet No. 1 of 1
	APPROVED BY JCW; BCC APPROVAL —; REVISED —	Index No. 101



NOTES

1. REPLACEMENT ASPHALT SHALL BE TWICE THE ORIGINAL PAVEMENT THICKNESS WITH A MINIMUM OF TWO (2) INCHES AND SHALL BE SP 12.5 OR TYPE S-3 ASPHALT, AND FC-3 IF REQUIRED.
2. REPLACEMENT BASE SHALL BE NEW MATERIAL NOT REUSED FROM EXCAVATION. ACCEPTABLE BASE ALTERNATIVE SHALL BE TYPE ABC OR BETTER ASPHALT PLACED AT A TOTAL THICKNESS OF SIX (6) INCHES.
3. AREA 1 – BACKFILL SHALL BE PLACED IN SIX (6) INCH LIFT WITH EACH LIFT COMPACTED TO **98% OF ASTM FM5-521** USING MECHANICAL TAMPERS.
4. AREA 2 – BACKFILL SHALL BE PLACED IN TWELVE (12) INCH LIFTS WITH EACH LIFT COMPACTED TO **98% OF FM5-521** USING APPROPRIATE COMPACTING EQUIPMENT.
5. AREA 3 – LIMEROCK (LBR 100) BASE SHALL BE CONSTRUCTED IN LIFTS NOT GREATER THAN SIX (6) INCHES COMPACTED THICKNESS, AND HAVE A DENSITY EQUAL TO **98% OF FM5-521**.
6. FLOWABLE FILL MAY BE PLACED ABOVE AREA 1 UP TO THE BOTTOM OF THE RESTORED BASE. MIX DESIGN SHALL CONFORM TO FDOT STANDARD SPECIFICATIONS SECTION 121. IF FLOWABLE FILL IS USED FOR TRENCH BACKFILL, THE AMOUNT OF COVER ABOVE TOP OF PIPE TO AREA 2 MAY BE REDUCED TO 6 INCHES.

Tests shall be submitted to Pasco County Engineering Inspections verifying open cut restoration is per general notes before release of permit or gurantee, if applicable. Material and thickness verification shall be required. All testing shall be Pasco County Services Department Testing Specifications for Construction of Roads, Storm Drainage and Utilities; October 2006.

NOTE:
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ANY PROPOSED ALTERATIONS SHALL BE CLEARLY IDENTIFIED AND HIGHLIGHTED ON DETAIL.

PASCO COUNTY ENGINEERING SERVICES — DESIGN STANDARDS	OPEN CUT RESTORATION	Sheet No. 1 of 1
	APPROVED BY MICHAEL J. GARRETT, P.E.; BCC APPROVAL —; REVISED —	Index No. 102

SOIL – CEMENT BASE SPECIFICATIONS

DESCRIPTION
CONSTRUCT A BASE COURSE COMPOSED OF A COMBINATION OF SOIL, PORTLAND CEMENT, AND WATER.

MATERIALS:
MEET THE FOLLOWING REQUIREMENTS:

CEMENT: PORTLAND CEMENT, TYPE I, II, III, OR TYPE I-P OR TYPE I-S.....SECTION 921

WATER: USE WATER THAT IS FREE FROM SUBSTANCES DELETERIOUS TO HARDENING OF THE SOIL-CEMENT MIXTURE.
CURING MATERIAL: 916-4

USE EMULSIFIED ASPHALT GRADE SS, RS, OR MS AS APPROVED BY THE ENGINEER. DILUTE THESE AS RECOMMENDED BY MANUFACTURER.

SOIL: FOR BASE COURSE CONSTRUCTION, USE EITHER THE MATERIAL EXISTING IN THE LOCATION TO BE OCCUPIED BY BASE, A SUITABLY FRIABLE MATERIAL FURNISHED BY THE CONTRACTOR, OR A COMBINATION OF THESE. IF THE MATERIAL EXISTING IN THE LOCATION TO BE OCCUPIED BY THE BASE DOES NOT MEET THE REQUIREMENTS SPECIFIED BELOW, REMOVE AND REPLACED WITH SUITABLE SOIL.

OBTAIN APPROVAL OF THE MATERIAL PITS PRIOR TO USE. EXCAVATE MATERIAL PITS TO ACHIEVE A UNIFORMLY MIXED MATERIAL WITH REASONABLY CONSISTENT CHARACTERISTICS. BLEND STRATA OR DIFFERING MATERIALS IN ACCORDANCE WITH A PROCEDURE APPROVED BY THE ENGINEER. THE COUNTY WILL CONSIDER PROPOSED RECYCLED MATERIALS ON A CASE BY CASE BASIS.

SPECIFIC REQUIREMENTS FOR SOIL:
- ORGANIC MATERIAL (AS PER FM 1-T267).....MAXIMUM 5%
- TOTAL CLAY AND SILT CONTENT (MINUS NO. 200 [75 µΩ SIEVE](AS PER FM 1-T088, NO HYDROMETER TEST) .....MAXIMUM 25%
- PLASTIC INDEX (AS PER FM 1-T090).....MAXIMUM 10%
- LIQUID LIMIT (AS PER FM 1-T089).....MAXIMUM 25%
- GRADATION:
  - PASSING 2 INCH [50 MM] SIEVE.....MINIMUM 100%
  - PASSING NO. 4 [4.75 MM] SIEVE.....MINIMUM 55%
  - PASSING NO. 10 [2.00 MM] SIEVE.....MINIMUM 37%
  - (AS PER FM 1-T088)

AS AN EXCEPTION TO THE ABOVE REQUIRMENTS, THE CONTRACTOR MAY USE ANY MATERIAL MEETING THE REQUIREMENTS FOR LIMEROCK.

NOTE:

THE ABOVE SOIL CEMENT BASE SPECIFICATIONS WERE TAKEN FROM FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2002 MANUAL – SECTION 270. AS SUCH, THE REFERENCED MATERIALS FOR SOIL CEMENT BASE SHALL CONFORM TO THE REQUIREMENTS SPECIFIED IN DIVISION III (MATERIALS) OF THIS FDOT MANUAL AS WELL.

SOIL CEMENT SHALL BE PLANT MIXED. DESIGN MIX SHALL BE 300 PSI AND CONSTRUCTED BASE SHALL NOT EXCEED 350 PSI.

NOTE:
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ANY PROPOSED ALTERATIONS SHALL BE CLEARLY IDENTIFIED AND HIGHLIGHTED ON DETAIL.

PASCO COUNTY ENGINEERING SERVICES — DESIGN STANDARDS	SOIL - CEMENT BASE SPECIFICATIONS	Sheet No. 1 of 1
	APPROVED BY JCW; BCC APPROVAL —; REVISED —	Index No. 105

Proposed Pavement Structure	*ELAM ROAD*			*Alternate Pavement Structure*	*ELAM ROAD*		
Pavement Layers	*Layer Coeff. per inch (a)*	*Layer Thickness (in.) (D)*	*(a) x (D)*	*Pavement Layers*	*Layer Coeff. per inch (a)*	*Layer Thickness (in.) (D)*	*(a) x (D)*
Type SP-9.5 Surface Course	*0.44*	*1.00*	*0.44*	*Type SP-9.5 Surface Course*	*0.44*	*1.00*	*0.44*
Type SP-12.5 Structural Course	*0.44*	*2.00*	*0.88*	*Type SP-12.5 Structural Course*	*0.44*	*2.50*	*1.10*
Crushed Concrete Base (LBR 150)	*0.18*	*8.00*	*1.44*	*Soil Cement Base (300 psi)*	*0.15*	*12.00*	*1.80*
Stabilized Subgrade (LBR 40)	*0.08*	*12.00*	*0.96*	*Compacted Subgrade (LBR 20)*	*0.04*	*12.00*	*0.48*
		SN =	*3.72*			*SN =*	*3.82*

Proposed Pavement Structure	*KENTON ROAD*			*Alternate Pavement Structure*	*KENTON ROAD*		
Pavement Layers	*Layer Coeff. per inch (a)*	*Layer Thickness (in.) (D)*	*(a) x (D)*	*Pavement Layers*	*Layer Coeff. per inch (a)*	*Layer Thickness (in.) (D)*	*(a) x (D)*
Type SP-9.5 Surface Course	*0.44*	*1.00*	*0.44*	*Type SP-9.5 Surface Course*	*0.44*	*1.00*	*0.44*
Type SP-12.5 Structural Course	*0.44*	*2.00*	*0.88*	*Type SP-12.5 Structural Course*	*0.44*	*2.50*	*1.10*
Crushed Concrete Base (LBR 150)	*0.18*	*8.00*	*1.44*	*Soil Cement Base (300 psi)*	*0.15*	*12.00*	*1.80*
Stabilized Subgrade (LBR 40)	*0.08*	*12.00*	*0.96*	*Compacted Subgrade (LBR 20)*	*0.04*	*12.00*	*0.48*
		SN =	*3.72*			*SN =*	*3.82*

ALTERNATE PAVEMENT CONSTRUCTION NOTES (SOIL CEMENT)

1. *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.*
2. *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.*
3. *SOIL-CEMENT SURFACE SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO ANY PAVING OPERATION.*

CONTRACTOR SHALL SUBMIT ANY PAVEMENT ALTERNATIVES TO ENGINEER FOR APPROVAL PRIOR TO FINAL SUBGRADE PREPARATIONS.

PASCO COUNTY PAVEMENT DESIGN CRITERIA

*MINIMUM SN**	*ROADWAY CLASSIFICATION*
3.50	*ELAM ROAD MINOR COLLECTOR*
3.70	*KENTON ROAD MAJOR COLLECTOR*

** CONNECTED CITY MPUD LDC SECTION 522.9*

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*
1A	*4'*	*10'*
1B	*4'*	*10'*
2	*4'*	*6'*
3	*1 ½'*	*6'*

1. *FOR PRIVATE STREETS, ENTRANCE AND EXIT GATE EQUIPMENT, GUARDHOUSE, OR OTHER LIKE STRUCTURE MAY BE SET BACK 1 ½ FEET FROM THE FDOT TYPE F AND D CURB.*
2. *WIDTHS IN ABOVE CHART ARE MEASURED FROM FACE OF BARRIER CURB OR EDGE OF PAVEMENT IF NO BARRIER CURB PROVIDED.*

DATE	DESCRIPTION	BY
10-14-2025	*REVIEW SUBMITTAL*	JAS
REVISIONS		

JORDAN A. SCHRADER — LICENSE — No. 74798 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

Clearview LAND DESIGN, P.L.
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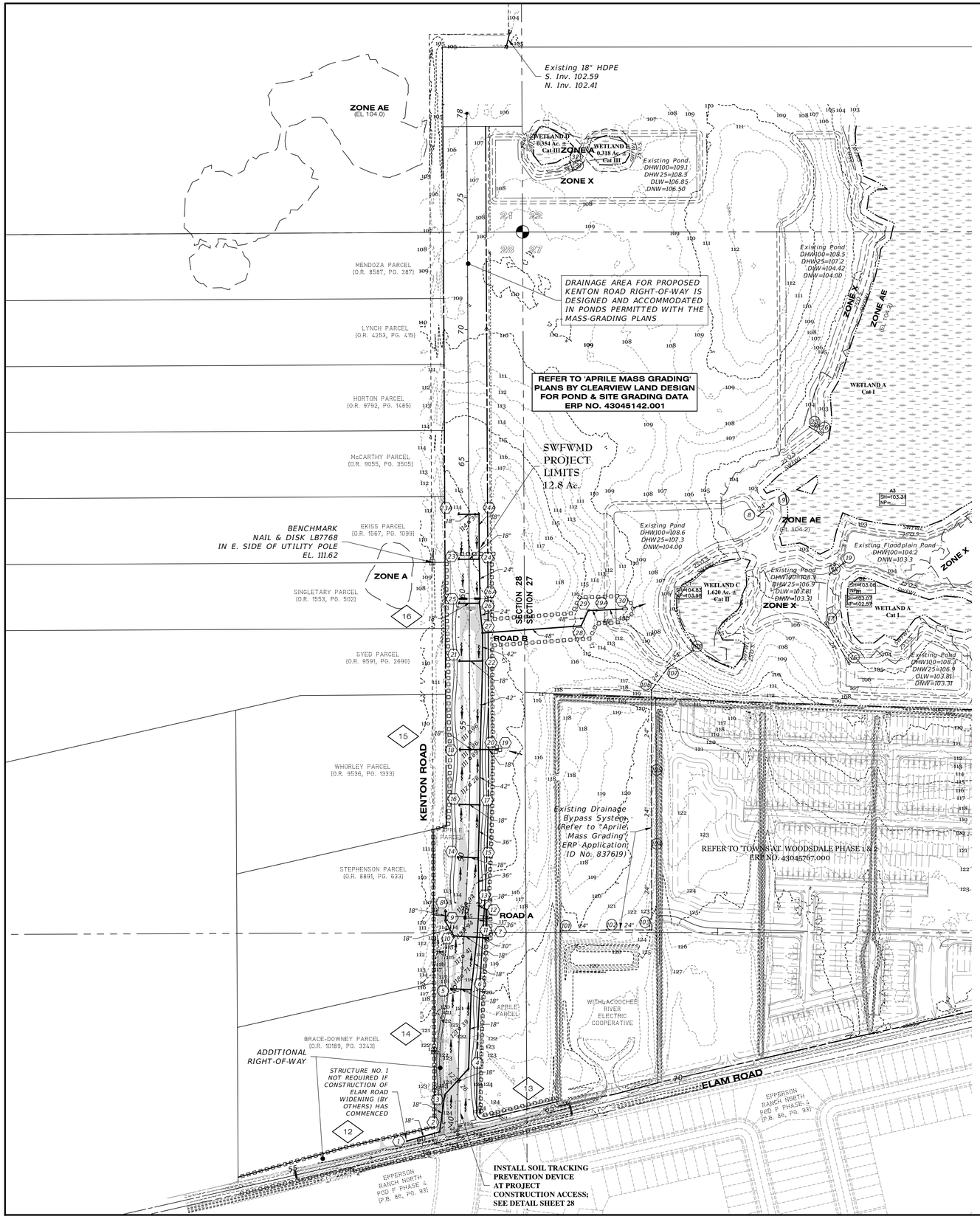
This item has been digitally signed and sealed by JORDAN A. SCHRADER, P.E. on the date adjacent to the seal. Signature must be verified on any electronic copies.

DATE 01/15/2026
JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

TYPICAL ROADWAY SECTIONS

JOB NO. *PHC-AP-007*	KENTON ROAD 1ST EXTENSION MODIFICATION
DESIGN *OBRIEN*	
DRAWN *OBRIEN*	PREPARED FOR: PULTE HOME COMPANY, LLC
DATE *01-15-2026*	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = *-0.84* Feet
FILE *R5*	**SHEET 8 OF 34 SHEETS**

P:\APRIL\KENTON ROAD MODIFICATION\DRAWING\CENDOC\R5.DWG-8 TYPICAL ROADWAY SECTIONS 2026/01/15 02:4 PM CLD ENGINEER



STORM STRUCTURE DATA

STRUCTURE NO.	STRUCTURE TYPE & SIZE	TOP ELEV.	LINE TYPE	LINE DIAM. IN.	LINE LENGTH FEET	LINE SLOPE %	INVERT ELEV. UPPER END	INVERT ELEV. LOWER END	FALL IN FEET	STRUCTURE LOCATION & REMARKS
1	1 CURB INLET	124.69	RCP	18	129	0.44	120.09	119.52	0.57	STR NOT REQUIRED IF ALREADY INSTALLED WITH ELAM ROAD WIDENING (PLANS BY OTHERS)
2	MANHOLE	125.04	RCP	18	142	0.44	119.52	118.90	0.62	STR NOT REQUIRED IF ALREADY INSTALLED WITH ELAM ROAD WIDENING (PLANS BY OTHERS)
3	1 CURB INLET	123.86	RCP	18	134	0.44	118.90	118.31	0.59	
4	1 CURB INLET	123.19	RCP	18	299	2.04	118.31	112.21	6.10	
6										
5	1 CURB INLET	119.94	RCP	18	77	0.30	115.34	115.11	0.23	
6	1 CURB INLET	119.94	RCP	18	200	0.60	110.19	108.99	1.20	
11										
7	3 CURB INLET	117.00	RCP	30	41	0.44	106.44	106.26	0.18	
11										
8	1 CURB INLET	114.20	RCP	18	43	0.20	109.60	109.51	0.09	
9	1 CURB INLET	114.20	RCP	18	62	0.20	107.00	106.88	0.12	
10	2 CURB INLET	116.66	RCP	18	89	0.20	106.88	106.70	0.18	
11	2 CURB INLET	116.44	RCP	36	119	0.20	106.19	105.95	0.24	TYPE 'J' STRUCTURE BOTTOM
13										
12	1 CURB INLET	116.74	RCP	18	24	0.20	106.50	106.45	0.05	
13	MANHOLE	116.11	RCP	36	182	0.26	105.95	105.48	0.47	TYPE 'J' STRUCTURE BOTTOM FDOT INDEX NO. 425.001
15										
14	2 CURB INLET	114.37	RCP	18	78	0.40	109.77	109.46	0.31	
15	2 CURB INLET	114.37	RCP	36	201	0.30	107.96	107.36	0.60	TYPE 'J' STRUCTURE BOTTOM
17										
16	2 CURB INLET	113.14	RCP	18	78	0.40	108.54	108.23	0.31	
17	2 CURB INLET	113.14	RCP	42	210	0.14	104.38	104.09	0.29	TYPE 'J' STRUCTURE BOTTOM
20										
18	3 CURB INLET	112.26	RCP	18	78	0.40	107.66	107.35	0.31	
20										
19	E DBI	113.00	RCP	18	67	0.50	104.50	104.17	0.34	
20	3 CURB INLET	112.26	RCP	42	335	0.22	104.09	103.35	0.74	TYPE 'J' STRUCTURE BOTTOM
22										
21	2 CURB INLET	113.18	RCP	18	88	0.40	108.58	108.23	0.35	
22	2 CURB INLET	112.96	RCP	42	100	0.24	101.35	101.11	0.24	TYPE 'J' STRUCTURE BOTTOM
27										
23A	1 CURB INLET	114.61	RCP	18	77	0.26	106.90	106.70	0.20	
24A	1 CURB INLET	114.61	RCP	18	170	0.15	106.70	106.44	0.26	
24										
23	2 CURB INLET	114.35	RCP	18	78	0.40	106.75	106.44	0.31	
24	2 CURB INLET	114.35	RCP	18	149	0.36	106.44	105.90	0.54	
26A	MANHOLE	114.38	RCP	18	17	0.57	105.90	105.80	0.10	
26										
25	2 CURB INLET	113.85	RCP	18	78	0.45	106.25	105.90	0.35	
26	2 CURB INLET	113.85	RCP	24	113	0.33	103.40	103.03	0.37	
27	JCT BOX	113.00	RCP	48	374	0.15	100.61	100.05	0.56	TYPE 'J' STRUCTURE BOTTOM
28	1 CURB INLET	113.56	RCP	48	64	0.15	100.05	99.96	0.10	TYPE 'J' STRUCTURE BOTTOM
29	1 CURB INLET	112.83	RCP	48	178	0.15	94.20	94.15	0.05	TYPE 'J' STRUCTURE BOTTOM
29A	1 CURB INLET	112.83	RCP	48	114	0.15	94.15	94.00	0.15	TYPE 'J' STRUCTURE BOTTOM
30	MES									FDOT INDEX NO. 430.021

DRAINAGE STRUCTURE No.'s 1 & 2 NOT REQUIRED IF STRUCTURE 1 HAS ALREADY BEEN CONSTRUCTED WITH ELAM ROAD WIDENING PHASE 1 AND PHASE 2

400 200 0 200 400

SCALE: 1" = 200'

LEGEND

EXISTING	PROPOSED	
	12	STORM DRAINAGE STRUCTURE & PIPE (SIZE IN INCHES)
10	10	STRUCTURE NO.
+62.9	65.00	SPOT ELEVATION
	65.00	PROPOSED PROFILE GRADE ELEVATION
63	65.00	CONTOUR
		DIRECTION OF SURFACE FLOW
	UD / UDCO	UNDERDRAIN WITH CLEANOUT
		STAKED EROSION CONTROL
		FLOATING TURBIDITY BARRIER
SWFWL		SWFWMD WETLAND LINE
25' O.S.		25' OFFSET FROM WETLAND LINE
10 WETLAND/ HYDROPERIOD ID SH=65.00 NP=63.50		WETLAND HYDROPERIOD DATA
WCA 108 Cat III		WETLAND CONSERVATION AREA PASCO WETLAND CATEGORY
		WETLAND AREAS
		PROPOSED WETLAND IMPACTS
		PROJECT BOUNDARY
	10	PLAN & PROFILE SHEET NO. REFERENCE
	RA-#	ROAD AUGER LOCATION
	PB-# (-14)	POND BORING LOCATION (MAX DEPTH OF SUITABLE FILL FROM EXISTING GRADE)

NOTE: EXISTING MASS GRADING PONDS ARE SIZED FOR THE ULTIMATE BUILD OUT OF KENTON ROAD & FUTURE DEVELOPMENT

THESE PLANS HAVE BEEN DESIGNED & ENGINEERED BASED ON AND IN COORDINATION WITH APRILE MPUD MASS GRADING PLANS, ELAM ROAD WIDENING PLANS, & TOWNS AT WOODSDALE PROJECT

✱ *DRAINAGE STRUCTURES 23A, 24A, 23, 24 TO BE CONSTRUCTED WITH FUTURE EXTENSION OF KENTON ROAD*

Site appears to lie within Flood Zone "X" according to Federal Emergency Management Agency (FEMA) - Flood Insurance Rate Map (FIRM) No. 12101C0268F and No. 12101C0266F, both revised September 26, 2014

DATE	DESCRIPTION	BY
12-22-2025	STR 28 INVERT FIXED	CSI
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

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DATE 01/15/2026

JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

MASTER DRAINAGE PLAN

JOB NO. PHC-AP-007	KENTON ROAD 1ST EXTENSION MODIFICATION
DESIGN OBRIEN	
DRAWN OBRIEN	PREPARED FOR: PULTE HOME COMPANY, LLC
DATE 01-15-2026	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = -0.84 Feet
FILE MDKEY	**SHEET 9 OF 34 SHEETS**

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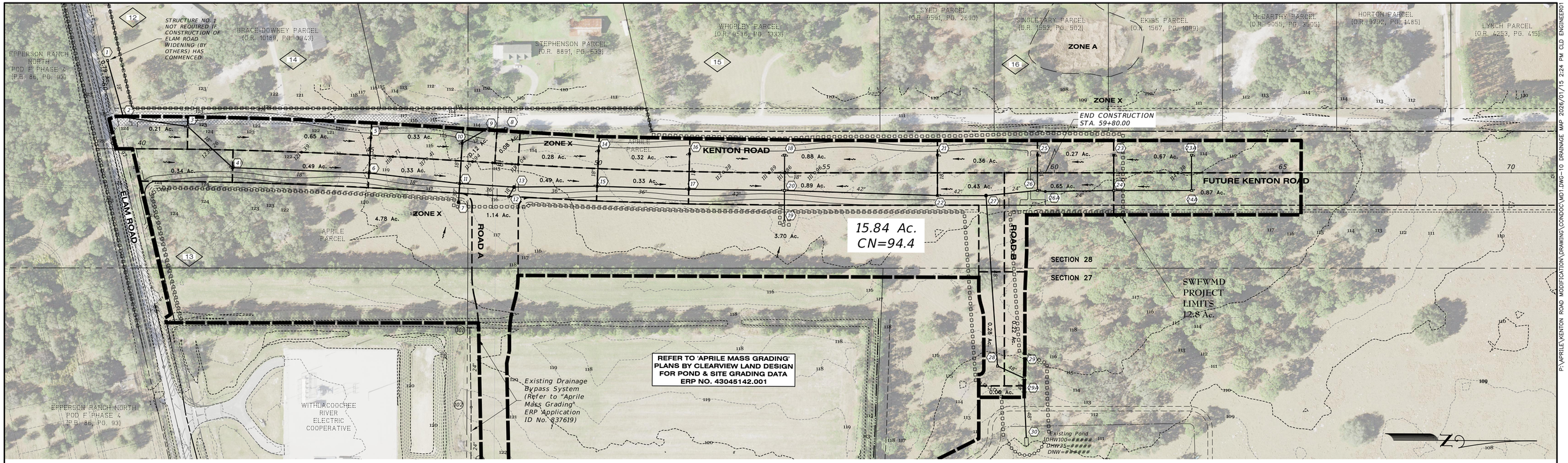
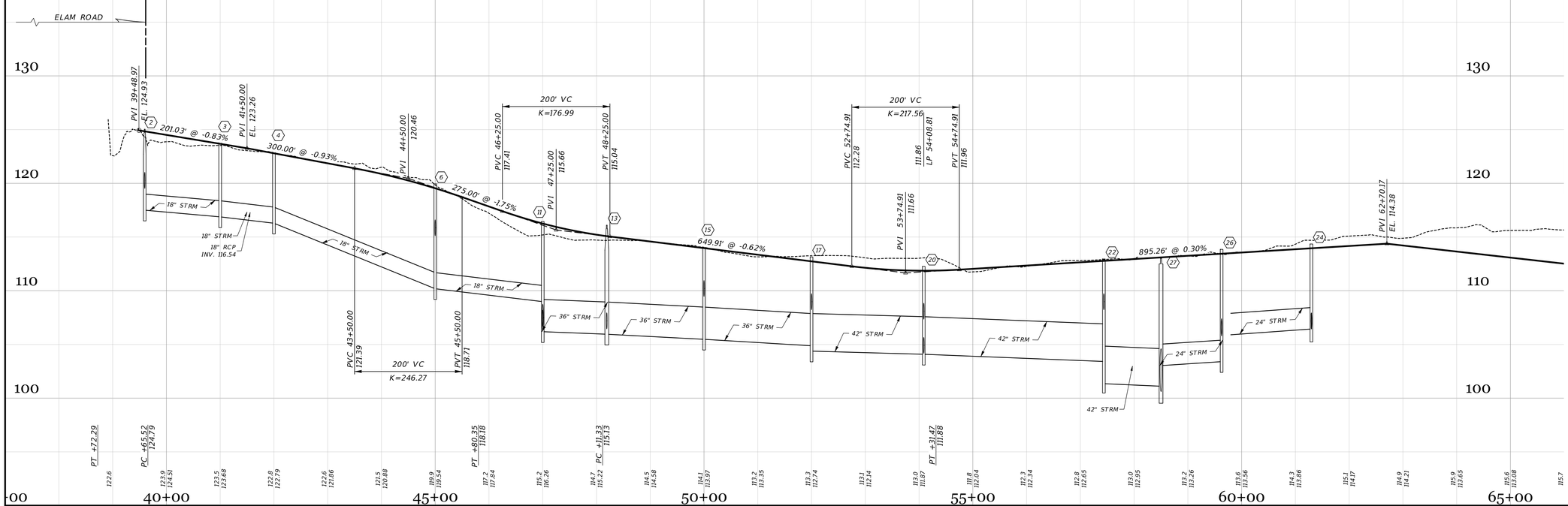


KENTON ROAD

SCALE: 1" = 100' HORIZONTAL
1" = 10' VERTICAL



DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS

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JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

DRAINAGE MAP

JOB NO.	PHC-AP-007
DESIGN	OBRIEN
DRAWN	OBRIEN
DATE	01-15-2026
FILE	MD1

KENTON ROAD
1ST EXTENSION MODIFICATION

PREPARED FOR: PULTE HOME COMPANY, LLC

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

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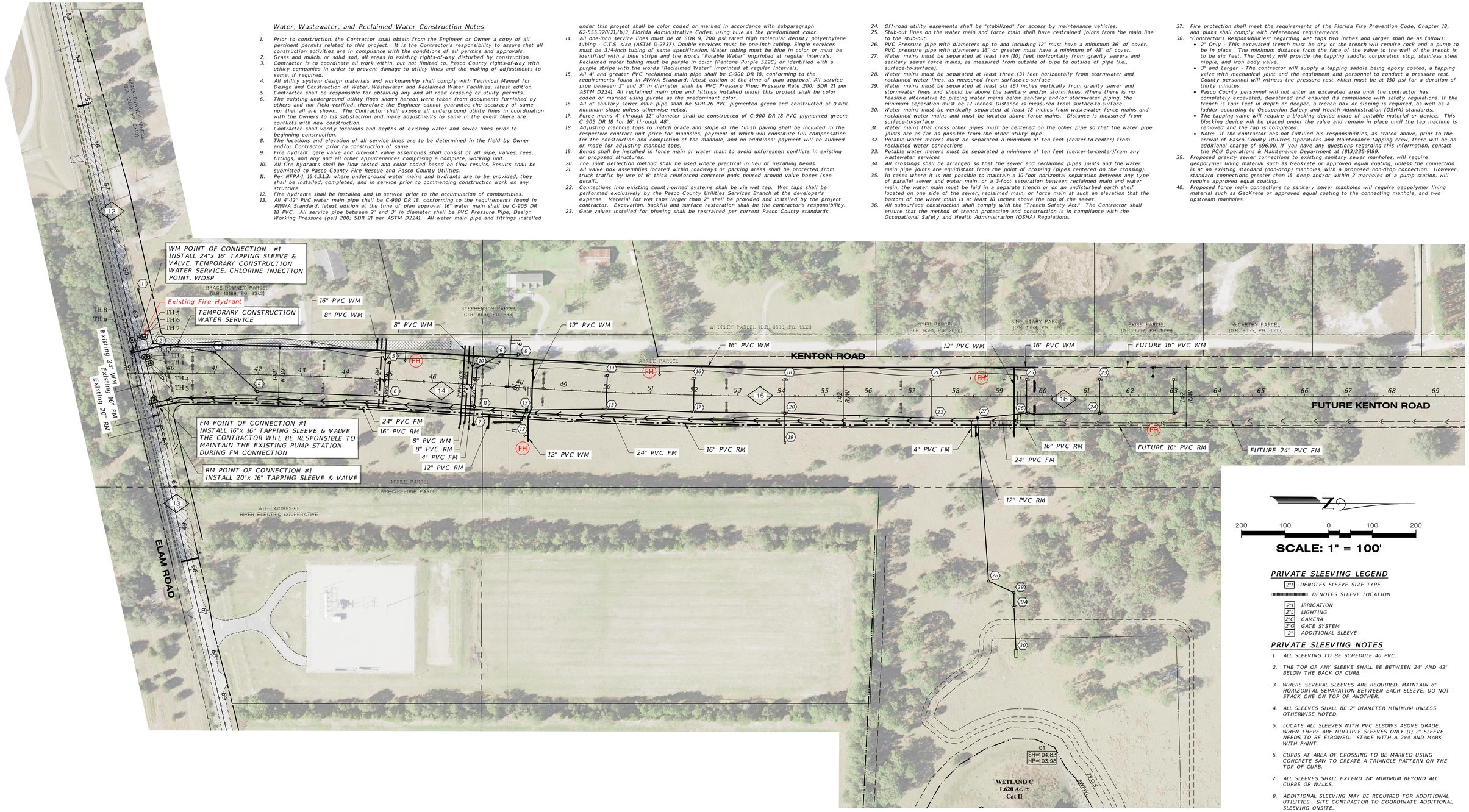
Water, Wastewater, and Reclaimed Water Construction Notes

1. 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.
2. Grass and mulch, or solid sod, all areas in existing rights-of-way disturbed by construction.
3. 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.
4. All utility system design materials and workmanship shall comply with Technical Manual for Design and Construction of Water, Wastewater and Reclaimed Water Facilities, latest edition.
5. Contractor shall be responsible for obtaining any and all road crossing or utility permits.
6. 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 Owners to his satisfaction and make adjustments to same in the event there are conflicts with new construction.
7. Contractor shall verify locations and depths of existing water and sewer lines prior to beginning construction.
8. 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.
9. 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.
10. 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.
11. 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 commencing construction work on any structure.
12. Fire hydrants shall be installed and in service prior to the accumulation of combustibles.
13. All 4"-12" PVC water main pipe shall be C-900 DR 18, conforming to the requirements found in AWWA Standard, latest edition at the time of plan approval. 16" water main shall be C-905 DR 18 PVC. All service pipe between 2" and 3" in diameter shall be PVC Pressure Pipe; Design Working Pressure (psi) 200; SDR 21 per ASTM D2241. All water main pipe and fittings installed under this project shall be color coded or marked in accordance with subparagraph 62-555.320(21)(b)3, Florida Administrative Codes, using blue as the predominant color.
14. All one-inch service lines must be of SDR 9, 200 psi rated high molecular density polyethylene tubing - C.T.S. size (ASTM D-2737). Double services must be one-inch tubing. Single services must be 3/4-inch tubing of same specification. Water tubing must be blue in color or must be identified with a blue stripe and the words "Potable Water" imprinted at regular intervals. Reclaimed water tubing must be purple in color (Pantone Purple 522C) or identified with a purple stripe with the words "Reclaimed Water" imprinted at regular Intervals.
15. All 4" and greater PVC reclaimed main pipe shall be C-900 DR 18, conforming to the requirements found in AWWA Standard, latest edition at the time of plan approval. All service pipe between 2" and 3" in diameter shall be PVC Pressure Pipe; Pressure Rate 200; SDR 21 per ASTM D2241. All reclaimed main pipe and fittings installed under this project shall be color coded or marked using purple as the predominant color.
16. All 8" sanitary sewer main pipe shall be SDR-26 PVC pigmented green and constructed at 0.40% minimum slope unless otherwise noted.
17. Force mains 4" through 12" diameter shall be constructed of C-900 DR 18 PVC pigmented green; C 905 DR 18 for 16" through 48".
18. Adjusting manhole tops to match grade and slope of the finish paving shall be included in the respective contract unit price for manholes, payment of which will constitute full compensation for the construction and completion of the manhole, and no additional payment will be allowed or made for adjusting manhole tops.
19. Bends shall be installed in force main or water main to avoid unforeseen conflicts in existing or proposed structures.
20. The joint deflection method shall be used where practical in lieu of installing bends.
21. All valve box assemblies located within roadways or parking areas shall be protected from truck traffic by use of 6" thick reinforced concrete pads poured around valve boxes (see detail).
22. Connections into existing county-owned systems shall be via wet tap. Wet taps shall be performed exclusively by the Pasco County Utilities Services Branch at the developer's expense. Material for wet taps larger than 2" shall be provided and installed by the project contractor. Excavation, backfill and surface restoration shall be the contractor's responsibility.
23. Gate valves installed for phasing shall be restrained per current Pasco County standards.
24. Off-road utility easements shall be "stabilized" for access by maintenance vehicles.
25. Stub-out lines on the water main and force main shall have restrained joints from the main line to the stub-out.
26. PVC Pressure pipe with diameters up to and including 12" must have a minimum 36" of cover. PVC pressure pipe with diameters 16" or greater must have a minimum of 48" of cover.
27. Water mains must be separated at least ten (10) feet horizontally from gravity sewers and sanitary sewer force mains, as measured from outside of pipe to outside of pipe (i.e., surface-to-surface).
28. Water mains must be separated at least three (3) feet horizontally from stormwater and reclaimed water lines, as measured from surface-to-surface
29. Water mains must be separated at least six (6) inches vertically from gravity sewer and stormwater lines and should be above the sanitary and/or storm lines. Where there is no feasible alternative to placing water mains below sanitary and/or stormwater piping, the minimum separation must be 12 inches. Distance is measured from surface-to-surface.
30. Water mains must be vertically separated at least 18 inches from wastewater force mains and reclaimed water mains and must be located above force mains. Distance is measured from surface-to-surface
31. Water mains that cross other pipes must be centered on the other pipe so that the water pipe joints are as far as possible from the other utility pipe
32. Potable water meters must be separated a minimum of ten feet (center-to-center) from reclaimed water connections
33. Potable water meters must be separated a minimum of ten feet (center-to-center)from any wastewater services
34. All crossings shall be arranged so that the sewer and reclaimed pipes joints and the water main pipe joints are equidistant from the point of crossing (pipes centered on the crossing).
35. In cases where it is not possible to maintain a 10-foot horizontal separation between any type of parallel sewer and water main, or a 3-foot separation between reclaimed main and water main, the water main must be laid in a separate trench or on an undisturbed earth shelf located on one side of the sewer, reclaimed main, or force main at such an elevation that the bottom of the water main is at least 18 inches above the top of the sewer.
36. 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.
37. Fire protection shall meet the requirements of the Florida Fire Prevention Code, Chapter 18, and plans shall comply with referenced requirements.
38. "Contractor's Responsibilities" regarding wet taps two inches and larger shall be as follows:
    - 2" Only - This excavated trench must be dry or the trench will require rock and a pump to be in place. The minimum distance from the face of the valve to the wall of the trench is to be six feet. The County will provide the tapping saddle, corporation stop, stainless steel nipple, and iron body valve.
    - 3" and Larger - The contractor will supply a tapping saddle being epoxy coated, a tapping valve with mechanical joint and the equipment and personnel to conduct a pressure test. County personnel will witness the pressure test which must be at 150 psi for a duration of thirty minutes.
    - Pasco County personnel will not enter an excavated area until the contractor has completely excavated, dewatered and ensured its compliance with safety regulations. If the trench is four feet in depth or deeper, a trench box or sloping is required, as well as a ladder according to Occupation Safety and Health Administration (OSHA) standards.
    - The tapping valve will require a blocking device made of suitable material or device. This blocking device will be placed under the valve and remain in place until the tap machine is removed and the tap is completed.
    - Note: if the contractor has not fulfilled his responsibilities, as stated above, prior to the arrival of Pasco County Utilities Operations and Maintenance tapping crew, there will be an additional charge of $96.00. If you have any questions regarding this information, contact the PCU Operations & Maintenance Department at (813)235-6189.
39. Proposed gravity sewer connections to existing sanitary sewer manholes, will require geopolymer lining material such as GeoKrete or approved equal coating; unless the connection is at an existing standard (non-drop) manholes, with a proposed non-drop connection. However, standard connections greater than 15' deep and/or within 2 manholes of a pump station, will require approved equal coating.
40. Proposed force main connections to sanitary sewer manholes will require geopolymer lining material such as GeoKrete or approved equal coating to the connecting manhole, and two upstream manholes.



200 100 0 100 200

SCALE: 1" = 100'

PRIVATE SLEEVING LEGEND

- 2"I — DENOTES SLEEVE SIZE TYPE
- DENOTES SLEEVE LOCATION
- 2"I — IRRIGATION
- 2"L — LIGHTING
- 2"C — CAMERA
- 2"G — GATE SYSTEM
- 2" — ADDITIONAL SLEEVE

PRIVATE SLEEVING NOTES

1. ALL SLEEVING TO BE SCHEDULE 40 PVC.
2. THE TOP OF ANY SLEEVE SHALL BE BETWEEN 24" AND 42" BELOW THE BACK OF CURB.
3. WHERE SEVERAL SLEEVES ARE REQUIRED, MAINTAIN 6" HORIZONTAL SEPARATION BETWEEN EACH SLEEVE. DO NOT STACK ONE ON TOP OF ANOTHER.
4. ALL SLEEVES SHALL BE 2" DIAMETER MINIMUM UNLESS OTHERWISE NOTED.
5. LOCATE ALL SLEEVES WITH PVC ELBOWS ABOVE GRADE. WHEN THERE ARE MULTIPLE SLEEVES ONLY (1) 2" SLEEVE NEEDS TO BE ELBOWED. STAKE WITH A 2x4 AND MARK WITH PAINT.
6. CURBS AT AREA OF CROSSING TO BE MARKED USING CONCRETE SAW TO CREATE A TRIANGLE PATTERN ON THE TOP OF CURB.
7. ALL SLEEVES SHALL EXTEND 24" MINIMUM BEYOND ALL CURBS OR WALKS.
8. ADDITIONAL SLEEVING MAY BE REQUIRED FOR ADDITIONAL UTILITIES. SITE CONTRACTOR TO COORDINATE ADDITIONAL SLEEVING ONSITE.
9. THE END OF ALL SLEEVES SHALL BE SEALED WITH DUCT TAPE.
10. FIELD LOCATE SLEEVES TO ENSURE THEY DO NOT LINE UP WITH SIDEWALKS OR OTHER PROPOSED HARDSCAPE ELEMENTS, NOR IMPEDE OR CAUSE CONFLICT WITH ANY ACCESSWAY, VEHICULAR OR PEDESTRIAN CIRCULATION OR UTILITY SERVICE.

TEST HOLE #	UTILITY OWNER	TYPE OF UTILITY	QUANTITY	SIZE (INCHES)	UTILITY MATERIAL	GROUND COVER	GROUND ELEVATION (FEET)	DEPTH TO TOP (FEET)	UTILITY ELEVATION (FEET)	NORTHING (FEET)	EASTING (FEET)	NOTES
TH 1	Pasco County	Reclaim Water	1	20	Ductile Iron	Natural Ground	125.240	4.20	121.040	1434170.516	558078.420	-
TH 2	Frontier	Fiber optic	1	1.5	PVC	Natural Ground	124.623	2.85	121.773	1434175.857	558076.975	-
TH 3	Pasco County	Reclaim Water	1	20	Ductile Iron	Natural Ground	125.192	4.40	120.792	1434174.043	558093.977	-
TH 4	Frontier	Fiber optic	1	1.5	PVC	Natural Ground	125.057	3.37	121.687	1434178.977	558092.640	-
TH 5	Pasco County	Reclaim Water	1	20	Ductile Iron	Natural Ground	124.897	3.85	121.047	1434160.900	558032.647	-
TH 6	Frontier	Fiber optic	1	1.5	PVC	Natural Ground	124.384	2.77	121.614	1434165.476	558032.531	-
TH 7	Pasco County	Force Main	1	16	PVC	Asphalt	124.980	4.13	120.850	1434164.394	558079.099	-
TH 8	Pasco County	Force Main	1	16	PVC	Asphalt	124.865	4.40	120.465	1434153.7100	558033.910	-
TH 9	Pasco County	Water	1	24	Steel	Asphalt	124.923	4.04	120.883	1434135.967	558039.820	-

LEGEND

EXISTING	PROPOSED	
		WATER MAIN (WM)
	FH	FIRE HYDRANT
	WDSP	WATER DISTRIBUTION SAMPLING POINT
A2 S	A2 S	SANITARY SEWER MAIN (SM) (SYMBOL DENOTES MH TO BE LINED)
		SANITARY FORCE MAIN (FM)
		RECLAIMED MAIN (RM)
	VVH#	SUE LOCATION MARKER
	10	PLAN & PROFILE SHEET NO. REFERENCE

REFER TO DRAINAGE KEY MAP FOR WETLAND INFORMATION

DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

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DATE 01/15/2026

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FLORIDA PROFESSIONAL ENGINEER

WATER & SEWER KEY MAP

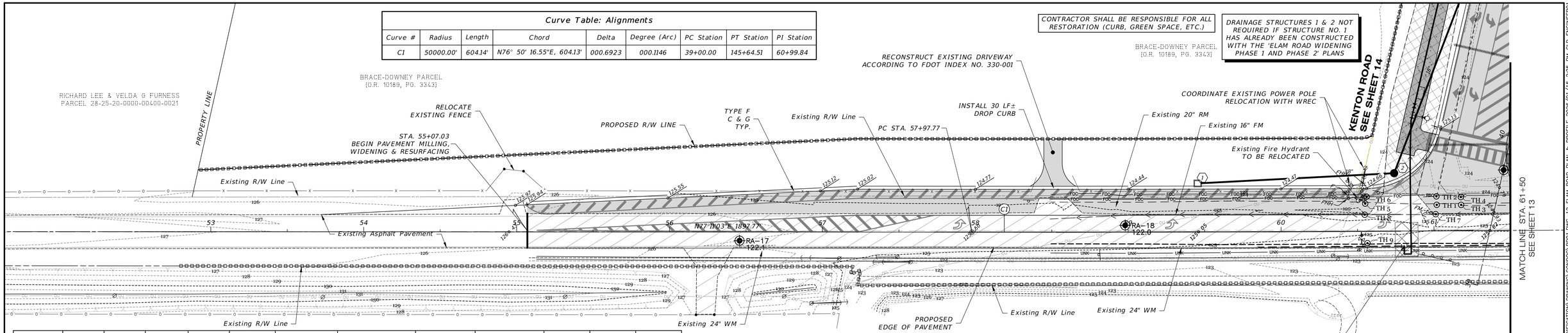
JOB NO. PHC-AP-007	KENTON ROAD 1ST EXTENSION MODIFICATION
DESIGN BARRERA	
DRAWN BARRERA	PREPARED FOR: PULTE HOME COMPANY, LLC
DATE 01-15-2026	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = -0.84 Feet
FILE WSKEY	**SHEET 11 OF 34 SHEETS**

P:\APRILE\KENTON ROAD MODIFICATION\DRAWING\CONDOC\WSKEY.DWG-11" WATER & SEWER KEY MAP 2026/01/15 2:25 PM CLD ENGINEER

Curve Table: Alignments								
Curve #	Radius	Length	Chord	Delta	Degree (Arc)	PC Station	PT Station	PI Station
C1	50000.00'	604.14'	N76° 50' 16.55"E, 604.13'	000.6923	000.1146	39+00.00	145+64.51	60+99.84

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESTORATION (CURB, GREEN SPACE, ETC.)

DRAINAGE STRUCTURES 1 & 2 NOT REQUIRED IF STRUCTURE NO. 1 HAS ALREADY BEEN CONSTRUCTED WITH THE 'ELAM ROAD WIDENING PHASE 1 AND PHASE 2' PLANS



TEST HOLE #	UTILITY OWNER	TYPE OF UTILITY	QUANTITY	SIZE (INCHES)	UTILITY MATERIAL	GROUND COVER	GROUND ELEVATION (FEET)	DEPTH TO TOP (FEET)	UTILITY ELEVATION (FEET)	NORTHING (FEET)	EASTING (FEET)	NOTES
TH 1	Pasco County	Reclaim Water	1	20	Ductile Iron	Natural Ground	125.240	4.20	121.040	1434170.516	558078.420	-
TH 2	Frontier	Fiber optic	1	1.5	PVC	Natural Ground	124.623	2.85	121.773	1434175.857	558076.975	-
TH 3	Pasco County	Reclaim Water	1	20	Ductile Iron	Natural Ground	125.192	4.40	120.792	1434174.043	558093.977	-
TH 4	Frontier	Fiber optic	1	1.5	PVC	Natural Ground	125.057	3.37	121.687	1434178.977	558092.640	-
TH 5	Pasco County	Reclaim Water	1	20	Ductile Iron	Natural Ground	124.897	3.85	121.047	1434160.900	558032.647	-
TH 6	Frontier	Fiber optic	1	1.5	PVC	Natural Ground	124.384	2.77	121.614	1434165.476	558032.531	-
TH 7	Pasco County	Force Main	1	16	PVC	Asphalt	124.980	4.13	120.850	1434164.394	558079.099	-
TH 8	Pasco County	Force Main	1	16	PVC	Asphalt	124.865	4.40	120.465	1434153.7100	558033.910	-
TH 9	Pasco County	Water	1	24	Steel	Asphalt	124.923	4.04	120.883	1434135.967	558039.820	-

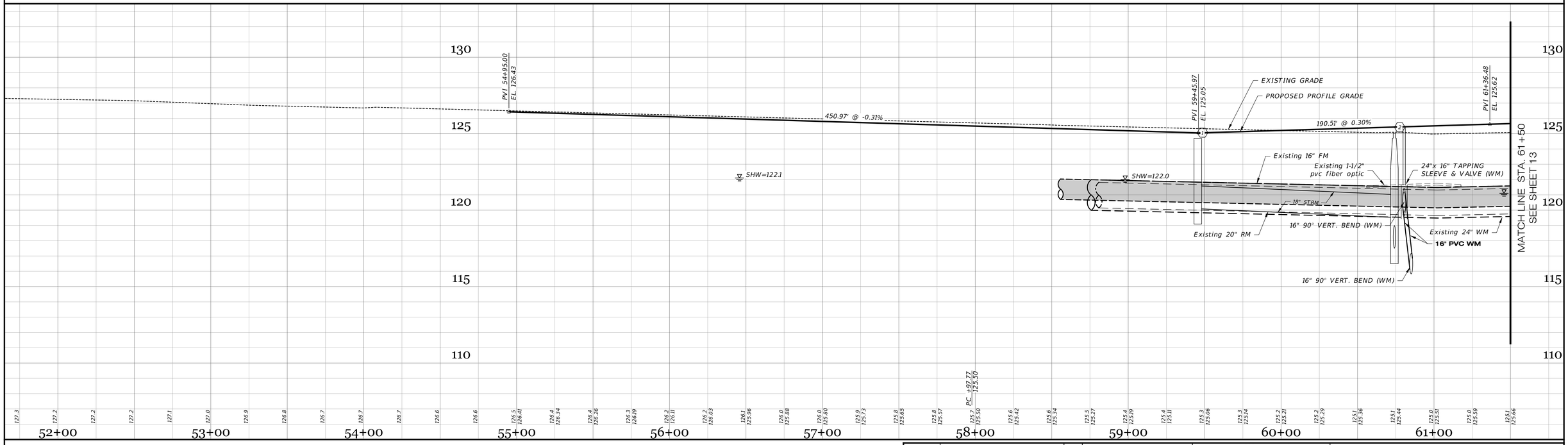
WIDENING/NEW CONSTRUCTION	MILLING & RESURFACING (2)

(2) REQUIRED IF NOT PREVIOUSLY PERFORMED WITH ELAM ROAD WIDENING PLANS BY HEIDT DESIGN

(1) REFER TO 'ELAM ROAD WIDENING PHASE 1 AND PHASE 2' CONSTRUCTION PLANS BY HEIDT DESIGN FOR CURB, SIDEWALK AND ALTERNATE LANE IMPROVEMENTS IN THE SOUTHERLY RIGHT-OF-WAY OF ELAM ROAD

ELAM ROAD

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



REVISIONS		
DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

Clearview LAND DESIGN, P.L.
Registered Business Number: RY28858
3010 W Azeele St., Suite 150, Tampa, Florida 33609
Office: 813-223-3919 Fax: 813-223-3975

This item has been digitally signed and sealed by JORDAN A. SCHRADER, P.E. on the date adjacent to the seal. Signature must be verified on any electronic copies.

DATE: 01/15/2026
JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

ELAM ROAD PLAN & PROFILE

JOB NO. PHC-AP-007	KENTON ROAD 1ST EXTENSION MODIFICATION
DESIGN OBRIEN	
DRAWN OBRIEN	PREPARED FOR: PULTE HOME COMPANY, LLC
DATE 01-15-2026	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = -0.84 Feet
FILE RP01	SHEET 12 OF 34 SHEETS

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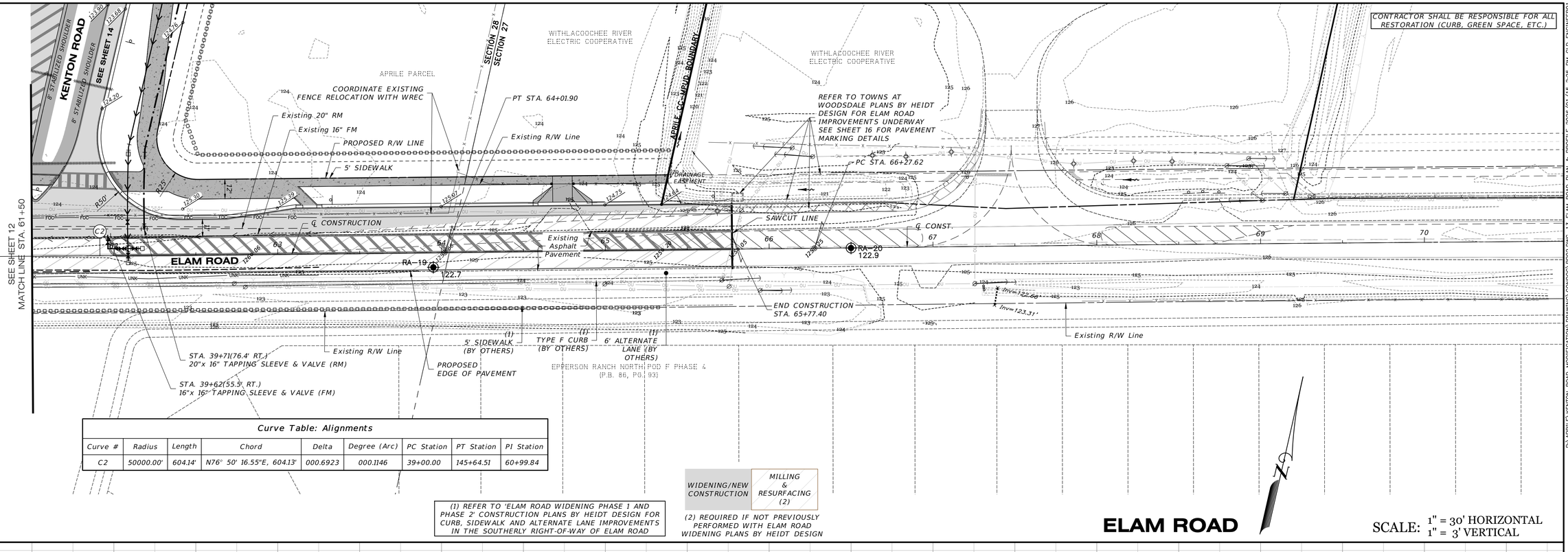


Curve Table: Alignments								
Curve #	Radius	Length	Chord	Delta	Degree (Arc)	PC Station	PT Station	PI Station
C2	50000.00'	604.14'	N76° 50' 16.55"E, 604.13'	000.6923	000.1146	39+00.00	145+64.51	60+99.84

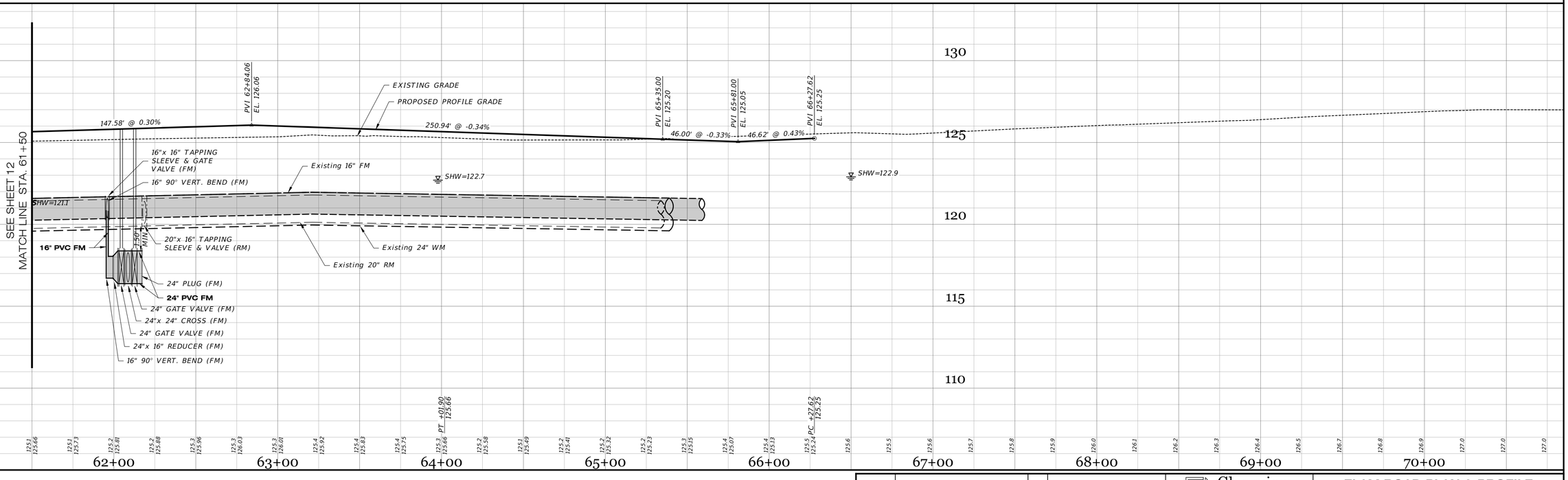
(1) REFER TO 'ELAM ROAD WIDENING PHASE 1 AND PHASE 2' CONSTRUCTION PLANS BY HEIDT DESIGN FOR CURB, SIDEWALK AND ALTERNATE LANE IMPROVEMENTS IN THE SOUTHERLY RIGHT-OF-WAY OF ELAM ROAD

WIDENING/NEW CONSTRUCTION | MILLING & RESURFACING (2)

(2) REQUIRED IF NOT PREVIOUSLY PERFORMED WITH ELAM ROAD WIDENING PLANS BY HEIDT DESIGN

ELAM ROAD

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



DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

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DATE: 01/15/2026
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FLORIDA PROFESSIONAL ENGINEER

ELAM ROAD PLAN & PROFILE

JOB NO. PHC-AP-007	KENTON ROAD 1ST EXTENSION MODIFICATION
DESIGN OBRIEN	
DRAWN OBRIEN	PREPARED FOR: PULTE HOME COMPANY, LLC
DATE 01-15-2026	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = -0.84 Feet
FILE RP02	SHEET 13 OF 34 SHEETS

P:\APRILE\KENTON ROAD MODIFICATION\DRAWING\CONDOC\RP02.DWG–13 ELAM ROAD PLAN & PROFILE 2026/01/15 2:25 PM CLD ENGINEER

SEE SHEET 12

BRACE-DOWNEY PARCEL (O.R. 10189, PG. 3343)

TH 5 TH 8 TH 9 TH 6 TH 2 TH 7 TH 4 TH 1 TH 3

ELAM ROAD

Existing Fire Hydrant TO BE RELOCATED

COORDINATE EXISTING POWER POLE RELOCATION WITH WREC

16" 11¼° BEND (WM) STA. 39+95.45 (66.0' LT)

16"x 6" TEE (WM) STA. 39+99.30 (66.0' LT)

FH ASSEMBLY (WM) STA. 39+99.30 (60.0' LT)

16" GATE VALVE (WM) STA. 40+05.44 (66.0' LT)

TEMPORARY CONSTRUCTION WATER SERVICE STA. 40+15.00 (64.0' LT)

565 LF± 16" PVC (WM) (TAPPING to STA 44.69.90)

R/W LINE

12' TRAIL

Existing Unimproved Roadway (TO BE REMOVED)

DRIVEWAY APPRON PER FDOT INDEX No. 330-001

24"x 16" TAPPING SLEEVE & GATE VALVE (WM) 39+14.60 52.44' LT

2- 16" 45° VERT. BENDS (WM)

OPEN CUT ELAM ROAD FOR WM CONNECTION

PC STA. 39+65.52

39+94.41 46.00' LT

42+88.15 24.00' LT

TYPE F C & G

30 LF± DROP CURB

157 LF± 8" PVC (RM)

147 LF± 4" PVC (FM)

8" STABILIZED SHOULDER

GRASS MEDIAN

41+89.38 2.00' LT

44+42.98 24.00' RT

45+44.40 2.00' RT

PT STA. 45+80.35

N3°16'13"E,230.98'

40+20.85 24.00' RT

40+37.14 35.00' RT

TYPE F C & G

18" RCP

10' UTILITY EASEMENT

& TECHNOLOGY EASEMENT

507 LF± 16" PVC (RM) (TAPPING to STA 44.79.83)

531 LF± 24" PVC (FM) (TAPPING to STA 44+89.96)

STA. 44+83.14 (56.0' RT)

16" GATE VALVE (RM) STA. 44+73.76 (66.0' RT)

8" GATE VALVE (RM) STA. 44+79.84 (59.2' RT)

STA. 44+89.96 (56.0' RT)

16"x 8" TEE (RM) STA. 44+79.83 (66.0' RT)

STA. 44+96.35 (56.0' RT)

200 LF± 16" PVC (RM) (STA 44+79.83 to 46+80.00)

200 LF± 24" PVC (FM) (STA 44+89.96 to 46+90.00)

16" 11¼° BEND (RM) STA. 40+18.77 (66.0' RT)

24" 11¼° BEND (FM) AIR RELEASE VALVE (FM) STA. 40+13.72 (56.8' RT)

24" GATE VALVE (FM) STA. 39+72.81 (65.5' RT)

SEE SHEET 13

BLOW-OFF (WM) STA. 44+69.93 (91.0' LT)

8" GATE VALVE (WM) STA. 44+69.92 (86.0' LT)

25 LF± 8" PVC (WM)

16"x 8" TEE (WM) STA. 44+69.90 (66.0' LT)

16" GATE VALVE (WM) STA. 44+63.82 (66.0' LT)

200 LF± 16" PVC (WM) (STA 44+69.90 to 46+69.94)

BLOW-OFF (RM) STA. 44+79.99 (91.0' LT)

8" GATE VALVE (RM) STA. 44+79.99 (86.0' LT)

4" PLUG (FM) STA. 44+89.55 (91.0' LT)

4" GATE VALVE (FM) STA. 44+89.56 (86.1' LT)

16" GATE VALVE (WM) STA. 45+41.14 (66.0' LT)

16"x 6" TEE (WM) STA. 45+35.00 (66.0' LT)

FH ASSEMBLY (WM) STA. 45+35.01 (45.0' LT)

16" GATE VALVE (WM) STA. 46+76.14 (66.0' LT)

BLOW-OFF (WM) STA. 46+69.94 (86.0' LT)

8" GATE VALVE (WM) STA. 46+69.94 (72.1' LT)

16"x 8" CROSS (WM) STA. 46+69.94 (66.0' LT)

16" GATE VALVE (WM) STA. 46+63.73 (66.0' LT)

BLOW-OFF (RM) STA. 46+79.94 (86.0' LT)

8" GATE VALVE (RM) STA. 46+79.94 (72.7' LT)

4" PLUG (FM) STA. 46+89.60 (86.0' LT)

4" GATE VALVE (FM) STA. 46+89.64 (72.4' LT)

16"x 12" TEE (WM) STA. 48+29.15 (66.0' LT)

16" GATE VALVE (WM) STA. 48+23.26 (66.0' LT)

16" GATE VALVE (WM) STA. 48+29.15 (60.3' LT)

16" GATE VALVE (WM) STA. 48+35.08 (66.0' LT)

47+47.54 83.33' LT

10 LF± DROP CURB

47+58.09 73.35' LT

47+90.09 76.23' LT

47+99.54 86.21' LT

52.08° o o o

SEE SHEET 15 (WM)

159 LF± 16" PVC (WM) STA. 46+69.94 to 48+28.93

188 LF± 12" PVC (WM)

PC STA. 48+13.13

47+07.35 24.00' LT

47+14.09 2.00' RT

47+38.37 17.28' LT

47+38.01 2.56' LT

48+22.57 2.00' LT

48+13.02 13.32' RT

24"x 4" CROSS (FM) STA. 46+90.00 (56.0' RT)

24" GATE VALVE (FM) STA. 46+82.86 (56.0' RT)

4" GATE VALVE (FM) STA. 46+90.00 (49.8' RT)

16" GATE VALVE (RM) STA. 47+28.29 (66.0' RT)

16" GATE VALVE (RM) STA. 46+80.00 (59.8' RT)

16" GATE VALVE (RM) STA. 46+73.25 (66.0' RT)

16"x 8" CROSS (RM) STA. 46+80.00 (66.0' RT)

8" GATE VALVE (RM) STA. 46+80.00 (72.3' RT)

8" GATE VALVE (WM) STA. 46+69.94 (86.0' LT)

BLOW-OFF (WM) STA. 46+69.94 (91.0' LT)

8" PLUG (RM) STA. 46+80.06 (86.0' RT)

16" GATE VALVE (RM) STA. 46+87.11 (66.0' RT)

12" 22½° BEND (WM) STA. 48+31.15 (44.3' RT)

SEE SHEET 15 (FM)

SEE SHEET 15 (RM)

12" 22½° BEND (WM) STA. 48+23.99 (65.1' RT)

16"x 12" TEE (RM) STA. 47+34.68 (66.0' RT)

16" GATE VALVE (RM) STA. 47+46.47 (66.0' RT)

12" GATE VALVE (RM) STA. 47+34.80 (89.6' RT)

BLOW-OFF (RM) STA. 47+34.96 (95.6' RT)

55 LF± 16" PVC (RM) (STA 46+80.00 to 47+34.68)

24" GATE VALVE (FM) STA. 46+97.63 (56.0' RT)

4" GATE VALVE (FM) STA. 46+90.00 (62.2' RT)

4" PLUG (FM) STA. 46+90.06 (86.0' RT)

FH ASSEMBLY (WM) STA. 48+26.60 (108.9' RT)

12" GATE VALVE (WM) STA. 48+26.95 (114.9' RT)

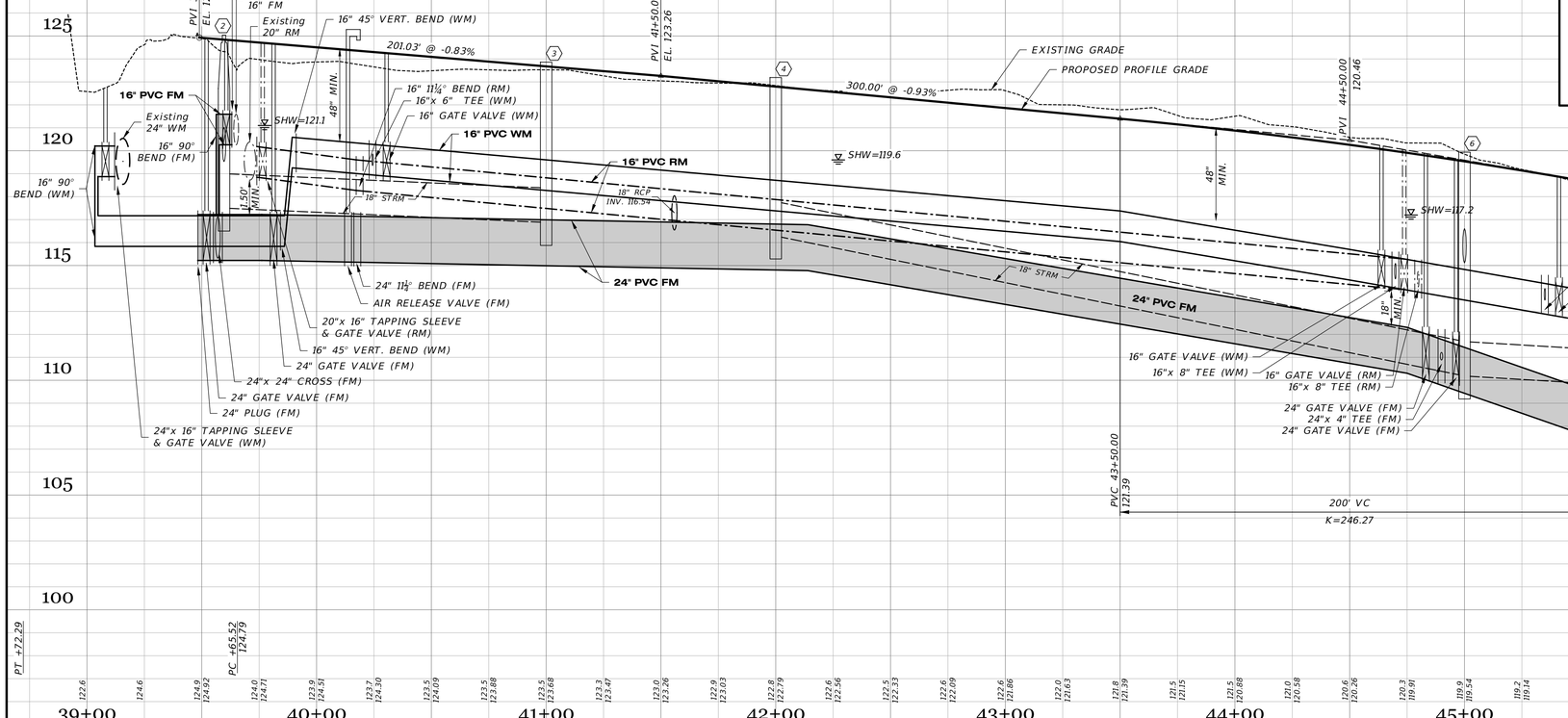
BLOW-OFF (WM) STA. 48+27.27 (120.3' RT)

MATCH LINE STA. 48+50 SEE SHEET 15

SEE SHEET 13

Curve Table: Alignments

Curve #	Radius	Length	Chord	Delta	Degree (Arc)	PC Station	PT Station	PI Station
C3	10000.00'	614.83'	N01° 30' 31.77"E, 614.73'	003.5227	000.5730	19+41.87	78+18.64	42+73.03



KENTON ROAD

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

DATE	DESCRIPTION	BY
12-22-2025	CONTROL RADII ADDED	CSI
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

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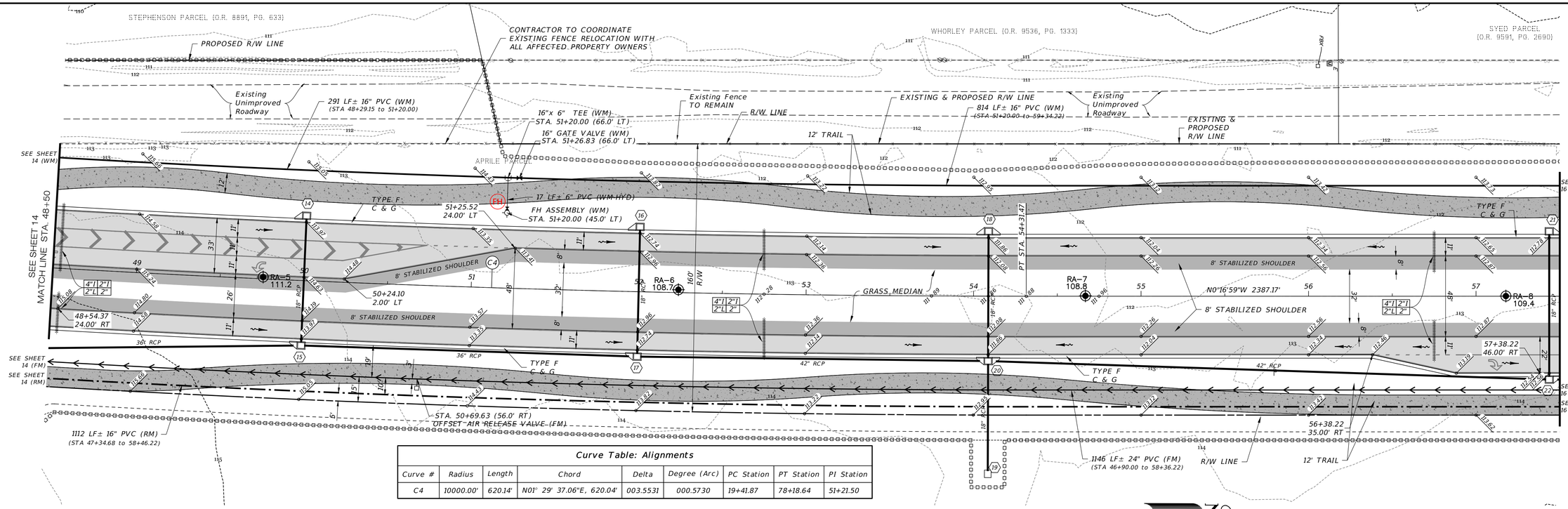
FLORIDA PROFESSIONAL ENGINEER

KENTON ROAD PLAN & PROFILE

JOB NO. PHC-AP-007	KENTON ROAD 1ST EXTENSION MODIFICATION
DESIGN OBRIEN	
DRAWN OBRIEN	PREPARED FOR: PULTE HOME COMPANY, LLC
DATE 01-15-2026	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = -0.84 Feet
FILE RP03	SHEET 14 OF 34 SHEETS

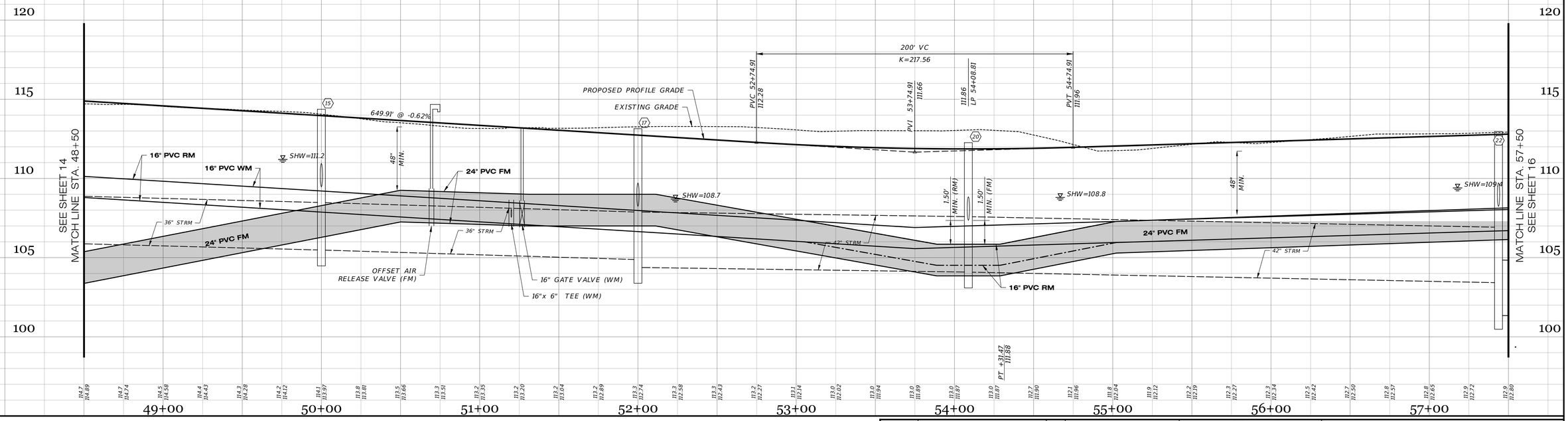
P:\APRILLE\KENTON ROAD MODIFICATION\DRAWING\CONDOCS\RP03.DWG--14 KENTON ROAD PLAN & PROFILE 2026/01/15 2:25 PM CLD ENGINEER



Curve Table: Alignments								
Curve #	Radius	Length	Chord	Delta	Degree (Arc)	PC Station	PT Station	PI Station
C4	10000.00'	620.14'	N01° 29' 37.06"E, 620.04'	003.5531	000.5730	19+41.87	78+18.64	51+21.50

KENTON ROAD

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



MM-DD-YYYY	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS
	REVIEW SUBMITTAL	JAS

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KENTON ROAD PLAN & PROFILE

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FILE RP04	**SHEET 15 OF 34 SHEETS**

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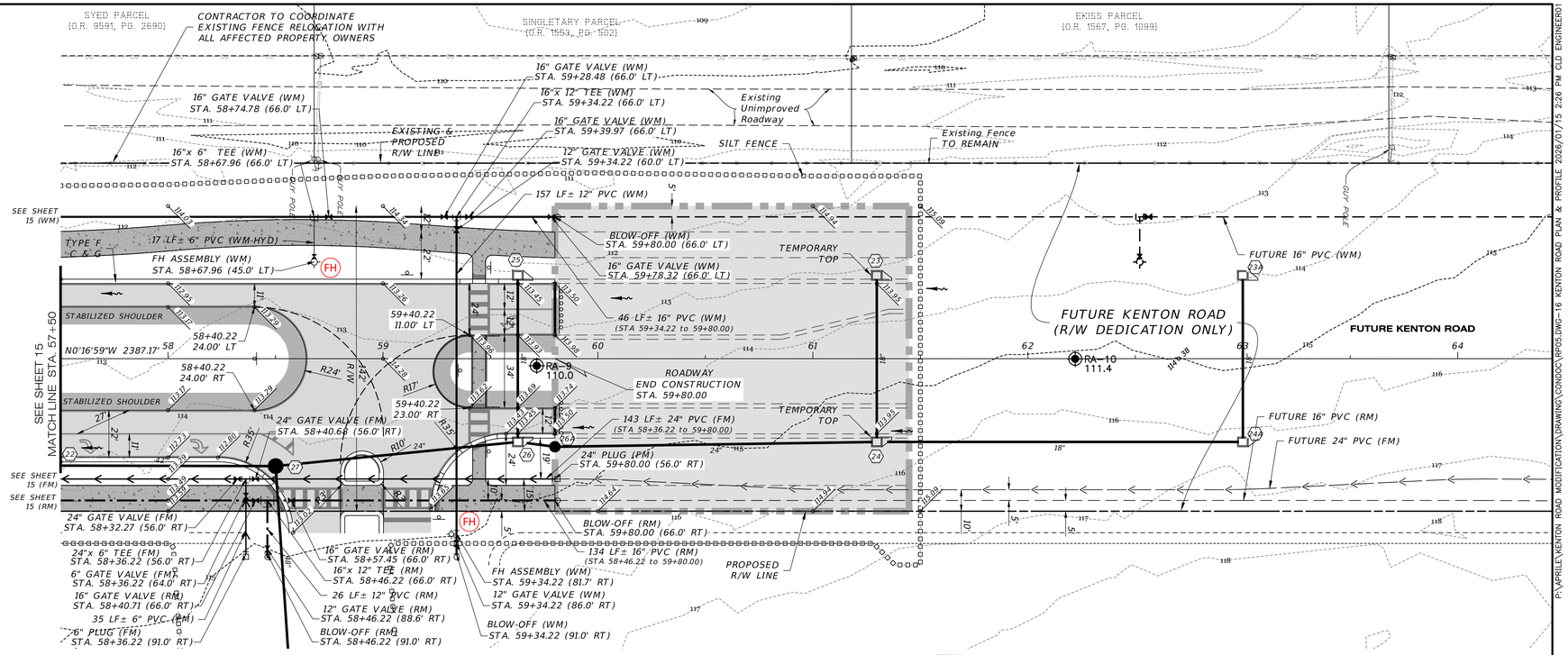

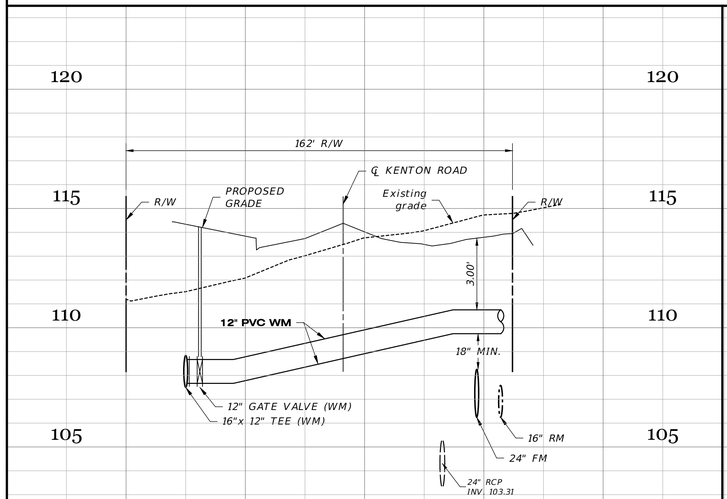

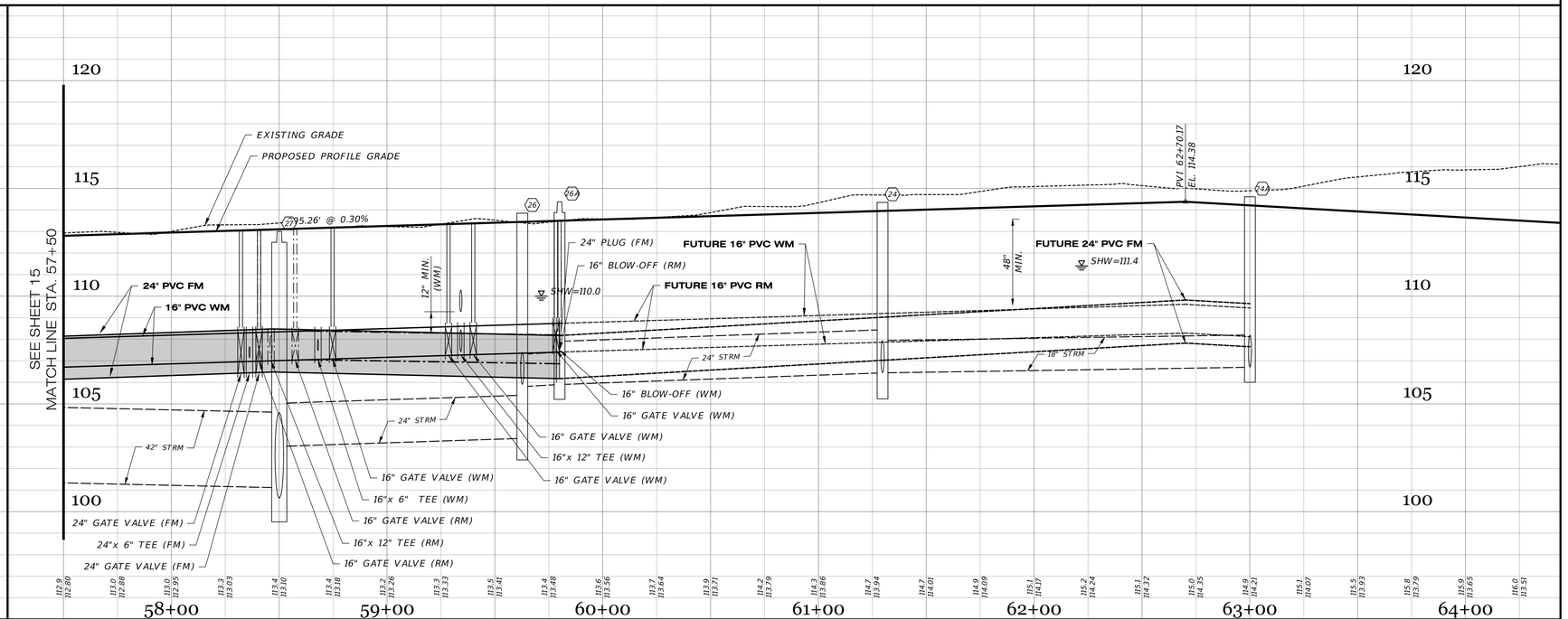

KENTON ROAD

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

WM CROSSING @ 59+34.22

DATE	DESCRIPTION	BY
12-22-2025	CONTROL RADII ADDED	CSI
10-14-2025	REVIEW SUBMITTAL	JAS

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KENTON ROAD PLAN & PROFILE

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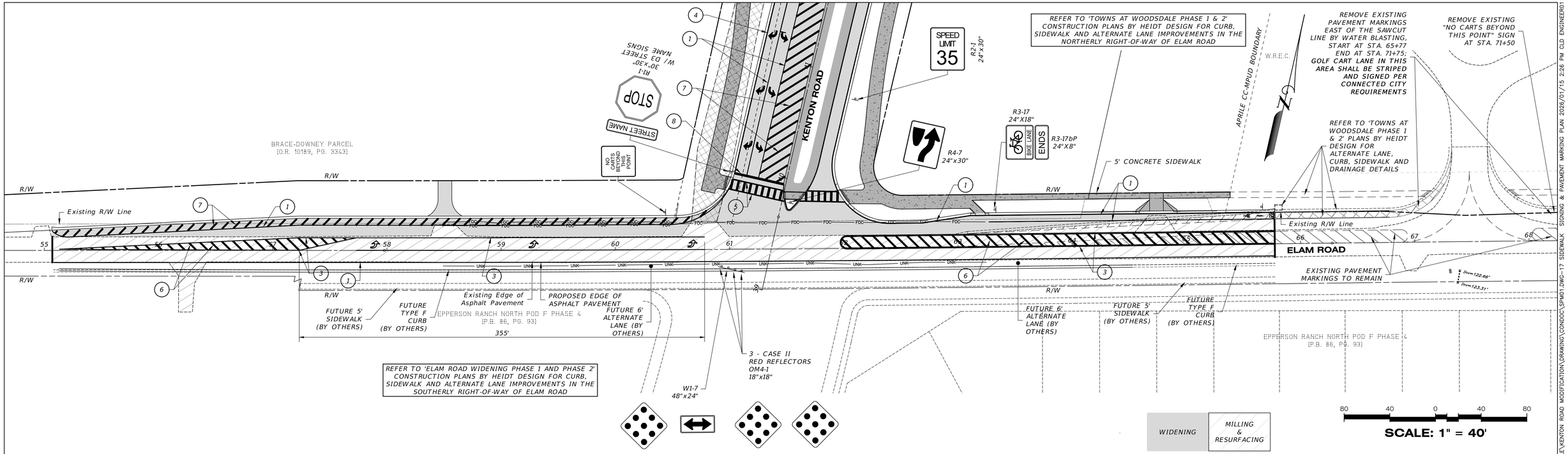
DATE 01-15-2026	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = -0.84 Feet
FILE RP05	**SHEET 16 OF 34 SHEETS**

P:\APRILL\KENTON ROAD MODIFICATION\DRAWING\CONDOCS\RP05.DWG--16 KENTON ROAD PLAN & PROFILE 2026/01/15 2:26 PM CLD ENGINEER01



P:\APRILE\KENTON ROAD MODIFICATION\DRAWING\CONDOC\SPM01.DWG-17 SIDEWALK SIGNING & PAVEMENT MARKING PLAN 2026/01/15 2:26 PM CLD ENGINEER01

SPECIFICATIONS FOR DESIGN AND INSTALLATION OF TRAFFIC CONTROL DEVICES ON COUNTY ROADS

1. *Purpose:*
   These specifications have been developed to provide developers with a uniform system for installation of traffic control devices on the County road system. A uniform system provides for reduced maintenance costs and a high standard of visibility for drivers. All required traffic control devices shall be installed by the developer of the project.
2. *Florida State Statue 316.0745:*
   a. Any and all traffic control devices installed on the County road system shall conform to Florida State Statute 316.0745, Uniform signals and devices.
   b. This statute requires that all devices conform to Florida Department of Transportation (FDOT) Specifications. The FDOT has adopted the Federal Manual on Uniform Traffic Control Devices as the standards to be used in the State of Florida.
3. *Pavement Markings:*
   a. All pavement markings shall be Thermoplastic or preformed tapes; raised pavement markers shall be class "B".
   b. Pavement markings and raised pavement markers shall be installed on all roads classified other than residential with an ADT greater than 500 vehicles, or if other conditions exist that require pavement markings, (see M.U.T.C.D. section 3B-1).
4. *Traffic Control Signs:*
   a. All sign blanks shall be of a type currently certified by the FDOT for use in the State of Florida.
   b. All sign faces shall be High Intensity grade and of a type currently certified by the FDOT for use in the State of Florida.
   c. All signs shall be no less than the standard size as specified by the Federal Manual on Uniform Traffic Control Devices.
   d. No minimum size signing shall be accepted. Larger signs shall be used when required by design speed etc.
   e. Street name signs shall be 9-inch on all road classifications. All signs shall have 6-inch series B letters. All street name signs on private roads shall be standard D3 street name signs with the colors reversed. White background with green letters and border. At intersections with county maintained roads; the county or state maintained road shall be green background with white letters and border. All street name sign brackets shall be supplied with bolts, set screws will not be accepted.
   f. On roads to be maintained by Pasco County, all signs other than street names shall be date coded with a yellow reflective label affixed to the back of the sign. It will be punched to show month, day, and year of installation (See Sample Label). Alternate label designs providing the date code information may be used if a sample is submitted and approved by Pasco County prior to installation.
   Sample Label: size 2" x 4"

   WARNING
   REMOVAL OF, OR DEFACING ANY TRAFFIC CONTROL DEVICE
   IS PUNISHABLE BY FINE AND OR IMPRISONMENT
   REPORT DAMAGE BY CALLING (727) 847-2411
   INSTALLED
   J F M A M J J A S O N D
   10'S 20'S 30'S 1 2 3 4 5 6 7 8 9
   01 02 03 04 05 06 07 08 09

   g. All post systems, mounting brackets and hardware shall be of a type currently in use by the Pasco County Public Works Department and currently certified by the Florida Department of Transportation for use in the State of Florida. Alternative systems etc. shall only be used if approved by the County Engineer.
5. *Certification of materials:*
   a. All traffic control devices and materials shall be on the current F.D.O.T. APPROVED PRODUCTS LIST. Proof of certification is required for all traffic control devices.
   b. A Traffic Control Devices Submittal Data Form shall be submitted for approval prior to installation of any traffic control devices. No traffic control device shall be installed until the certification submittal has been approved by the Traffic Operations Division. These forms are available from the Traffic Operations Division. Copies of the approved Traffic Control Devices Submittal Data Form shall be sent to the contractor and the Engineering Inspections Division.
6. *Traffic Control Devices Plan:*
   a. A detailed set of plans for required traffic control devices shall be submitted for all road construction site development, subdivision, and Right-of-Way Use Permits. These plans shall be in conformance with FDOT design standards. All plans shall be signed and sealed by a registered professional engineer in the State of Florida.
   b. With the submittal of final plans to the Development Review Division, two additional sets of the traffic control plan portion of the entire plan shall be submitted. These two sets will be forwarded to the Traffic Operations Division.
7. *Cost Estimate:*
   An engineer's cost estimate shall be required for all proposed traffic control devices. The estimate shall be provided in conjunction with the Traffic control Devices Submittal Data Form. see Section 5.2.
8. *Inspection and acceptance:*
   a. Upon completion of the installation of the traffic control devices, the contractor shall call the Engineering Inspections Division for an inspection at (727) 847-8154.
   b. The inspection shall be made by the Engineering Inspections Division with 48 hours (two working days) of the request.
   c. An inspection report shall be made by the Engineering Inspections Division. Copies of the report shall be sent to the Engineer and the Developer.
   d. No roadway shall be open to the Public until all traffic control devices have been inspected and accepted by Pasco County.

SIGN SCHEDULE

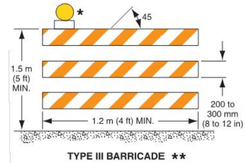
SYMBOL	DESIGNATION SIZE	QUANTITY EACH
STREET NAME / STOP	R1-1 30"x30" W/ D3 STREET NAME SIGNS *	4
	CASE II RED REFLECTORS OM4-1 18"x18"	6
	R4-7 24"x30"	5
	W1-7 48"x24"	2
DEAD END / 400 FEET	W14-1 30"x30" / W16-2 24"x18"	1
	W11-2 30"x30" / W16-7PL 24"x12"	6
BIKE LANE / ENDS	R3-17 24"X18" / R3-17bP 24"X8"	1
CARTS MERGE WITH VEHICULAR TRAFFIC	W11-12P 36"X30"	1
NO CARTS BEYOND THIS POINT		1

* STREET NAME SIGNS SHALL BE PLACED ABOVE THE STOP SIGNS.
** DOUBLE FACED SIGN POLE

PAVEMENT MARKING LEGEND

1. 6" SOLID WHITE LANE LINE
2. 6" WHITE 2'-4' SKIP LINE
3. 6" DOUBLE SOLID YELLOW LINE
4. 6" SOLID YELLOW LINE
5. 12" SOLID WHITE PEDESTRIAN CROSSWALK LINE
6. 18" SOLID YELLOW GORE @ 10'
7. 18" SOLID WHITE GORE @ 10'
8. 24" SOLID WHITE
9. 18" SOLID WHITE GORE @ 20'

BDY BI-DIRECTIONAL YELLOW
BDRW BI-DIRECTIONAL RED/WHITE



TYPE III BARRICADE **

* Warning lights (optional)
** Rail stripe widths shall be 150 mm (6 in), except that 100 mm (4 in) wide stripes may be used if rail lengths are less than 900 mm (36 in). The sides of barricades facing traffic shall have retroreflective rail faces.

LEGEND

- PROPOSED SIDEWALK/PATH BY BUILDER (5' WIDE UNLESS OTHERWISE NOTED)
- PROPOSED SIDEWALK BY DEVELOPER (5' WIDE, 4" THICK)
- PROPOSED SIDEWALK BY DEVELOPER (5' WIDE, 6" THICK)
- SIGN & POST (POST, FACE OF POST)
- SIGN ON BOTH SIDE OF POST (FACE OF POST, FACE OF POST, POST)
- LIMITS OF CLEAR SIGHT PER FDOT INDEX 546 & MANUAL OF UNIFORM MINIMUM STANDARDS (FLORIDA GREENBOOK)
- CLEAR SIGHT TRIANGLE PER PASCO COUNTY

DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

Clearview LAND DESIGN, P.L.
Registered Business Number: RY28858
3010 W Azeele St., Suite 150, Tampa, Florida 33609
Office: 813-223-3919 Fax: 813-223-3975

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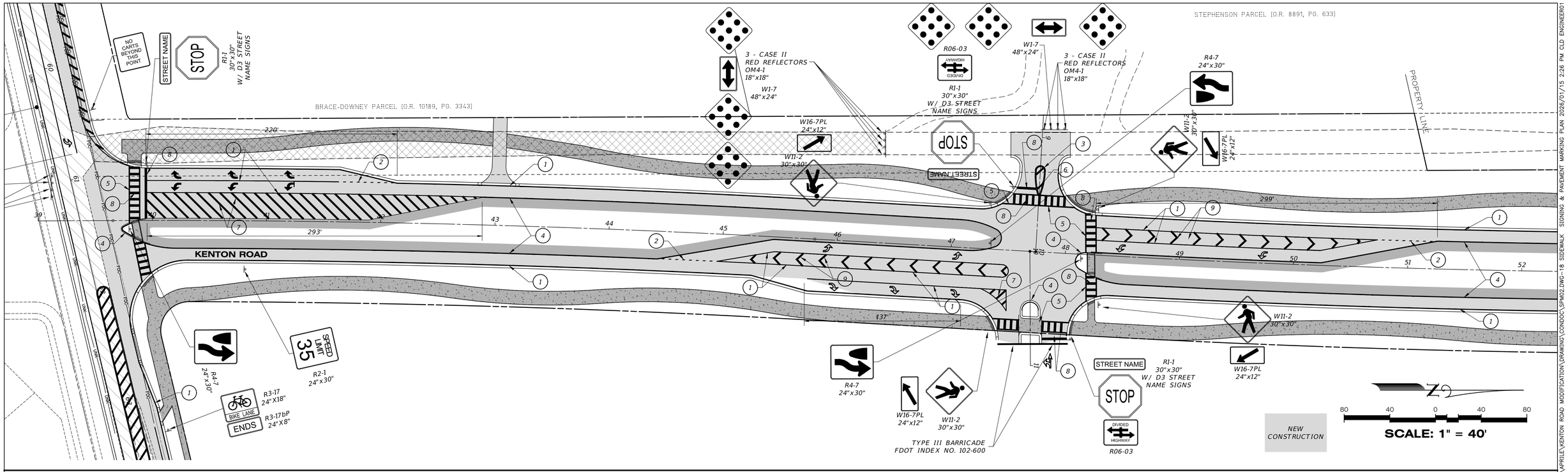
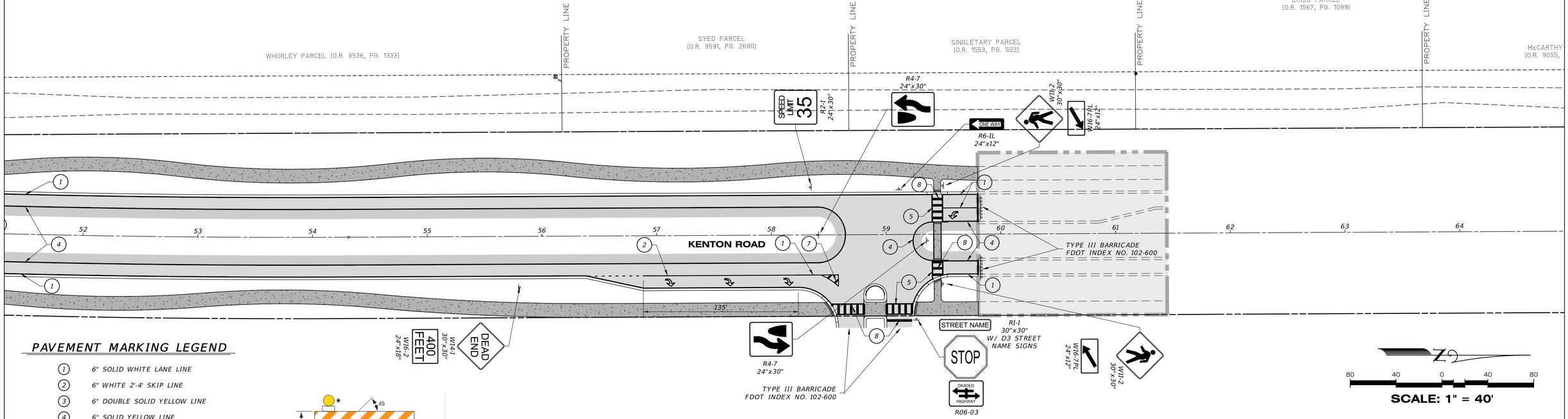
DATE: 01/15/2026
JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

SIDEWALK SIGNING & PAVEMENT MARKING PLAN

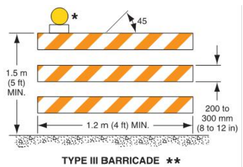
JOB NO. PHC-AP-007	KENTON ROAD 1ST EXTENSION MODIFICATION
DESIGN OBRIEN	
DRAWN OBRIEN	PREPARED FOR: PULTE HOME COMPANY, LLC
DATE 01-15-2026	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = -0.84 Feet
FILE SPM01	**SHEET 17 OF 34 SHEETS**





PAVEMENT MARKING LEGEND

(1)	6" SOLID WHITE LANE LINE
(2)	6" WHITE 2'-4' SKIP LINE
(3)	6" DOUBLE SOLID YELLOW LINE
(4)	6" SOLID YELLOW LINE
(5)	12" SOLID WHITE PEDESTRIAN CROSSWALK LINE
(6)	18" SOLID YELLOW GORE @ 10'
(7)	18" SOLID WHITE GORE @ 10'
(8)	24" SOLID WHITE
(9)	18" SOLID WHITE GORE @ 20'
BDY	BI-DIRECTIONAL YELLOW
BDRW	BI-DIRECTIONAL RED/WHITE



TYPE III BARRICADE **

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DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS
REVISIONS		

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

DATE: 01/15/2026
JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

Clearview LAND DESIGN, P.L.
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3010 W Azeele St., Suite 150, Tampa, Florida 33609
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SIDEWALK SIGNING & PAVEMENT MARKING PLAN

JOB NO. PHC-AP-007	KENTON ROAD 1ST EXTENSION MODIFICATION
DESIGN OBRIEN	
DRAWN OBRIEN	PREPARED FOR: PULTE HOME COMPANY, LLC
DATE 01-15-2026	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = -0.84 Feet
FILE SPM02	SHEET 18 OF 34 SHEETS

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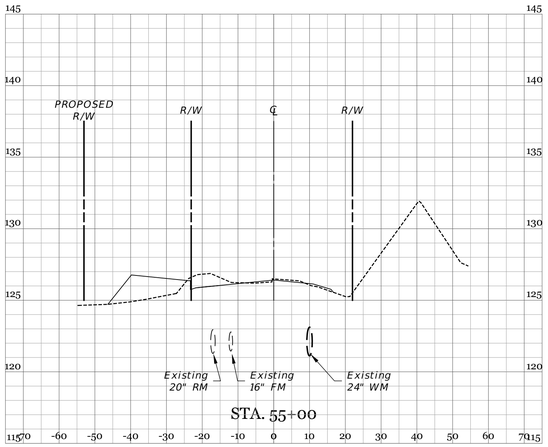

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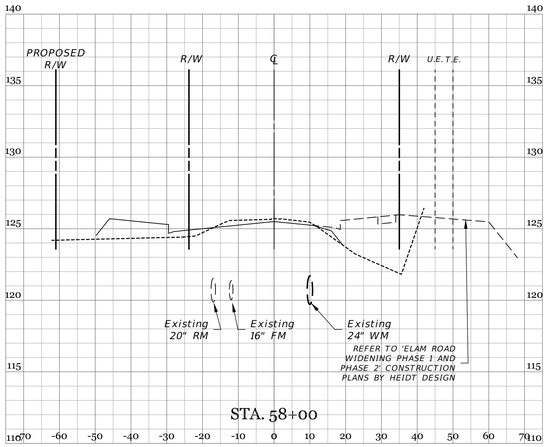

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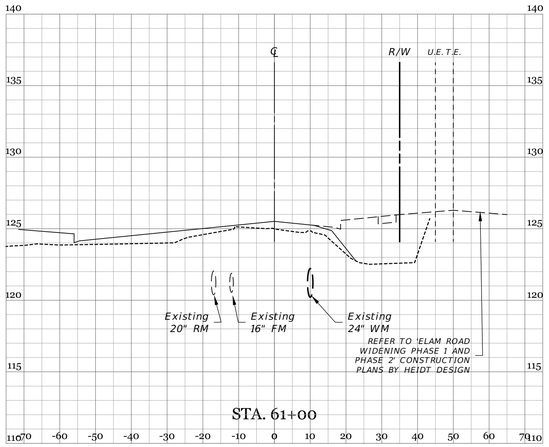

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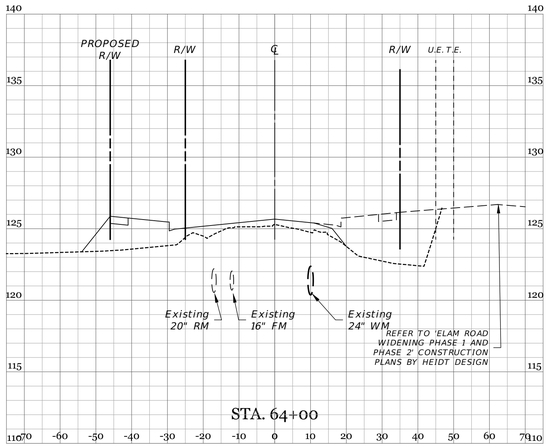

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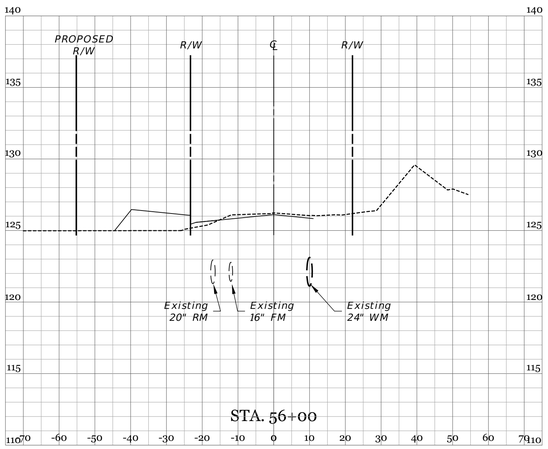

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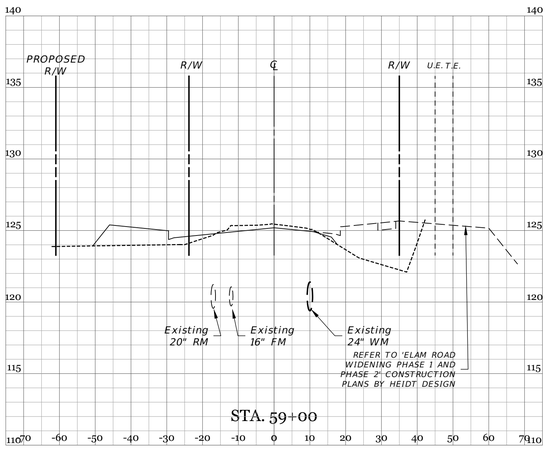

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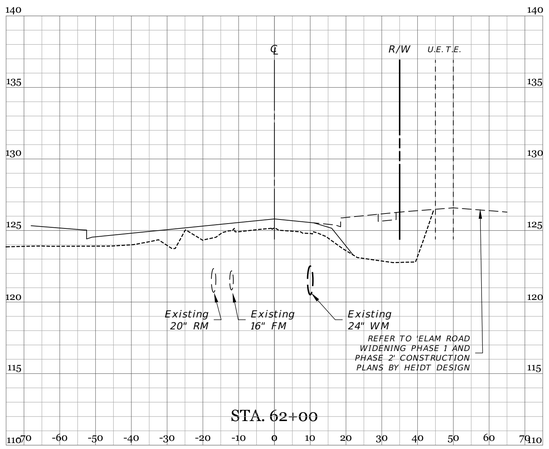

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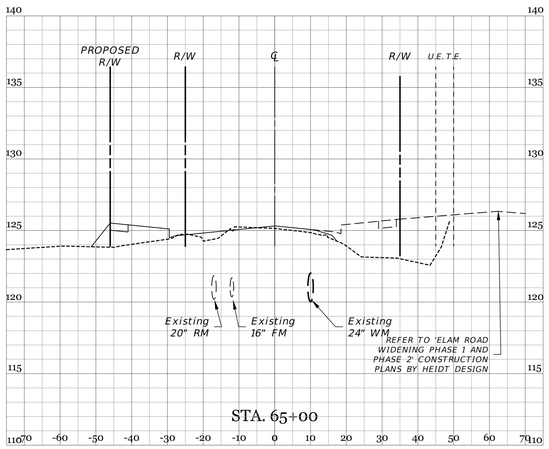

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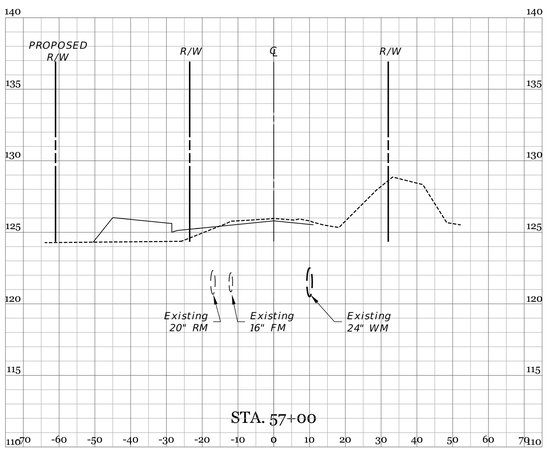

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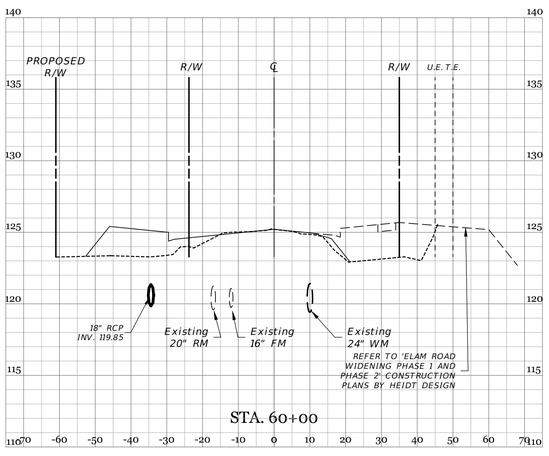

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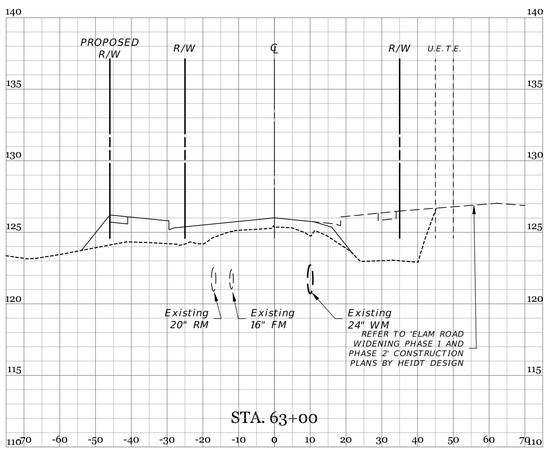

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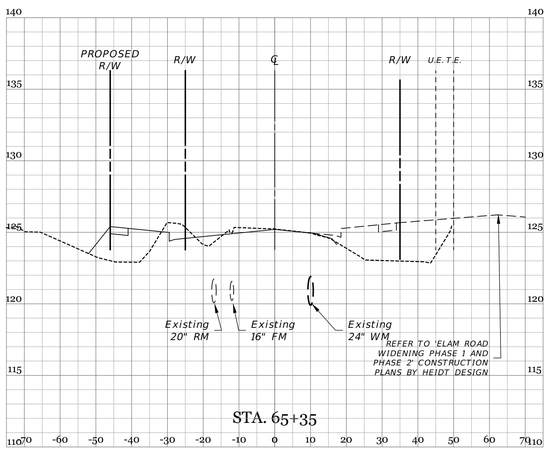

STA. 65+35

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

Clearview LAND DESIGN, P.L.
Registered Business Number: RY28858
3010 W Azeele St., Suite 150, Tampa, Florida 33609
Office: 813-223-3919 Fax: 813-223-3975

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DATE 01/15/2026
JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

ELAM ROAD CROSS-SECTIONS

KENTON ROAD
1ST EXTENSION MODIFICATION

JOB NO.	PHC-AP-007
DESIGN	OBRIEN
DRAWN	OBRIEN
DATE	01-15-2026
FILE	RDX
PREPARED FOR:	PULTE HOME COMPANY, LLC
	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = -0.84 Feet

SHEET 19 OF 34 SHEETS

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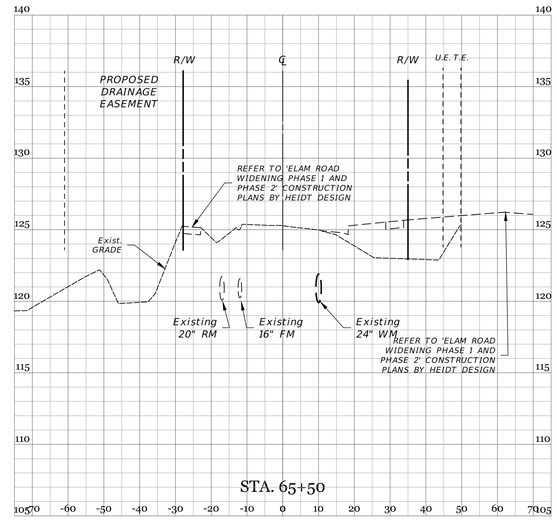

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

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FLORIDA PROFESSIONAL ENGINEER

ELAM ROAD CROSS-SECTIONS

JOB NO. PHC-AP-007	KENTON ROAD 1ST EXTENSION MODIFICATION
DESIGN OBRIEN	
DRAWN OBRIEN	PREPARED FOR: PULTE HOME COMPANY, LLC
DATE 01-15-2026	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = -0.84 Feet
FILE RDX	**SHEET 20 OF 34 SHEETS**

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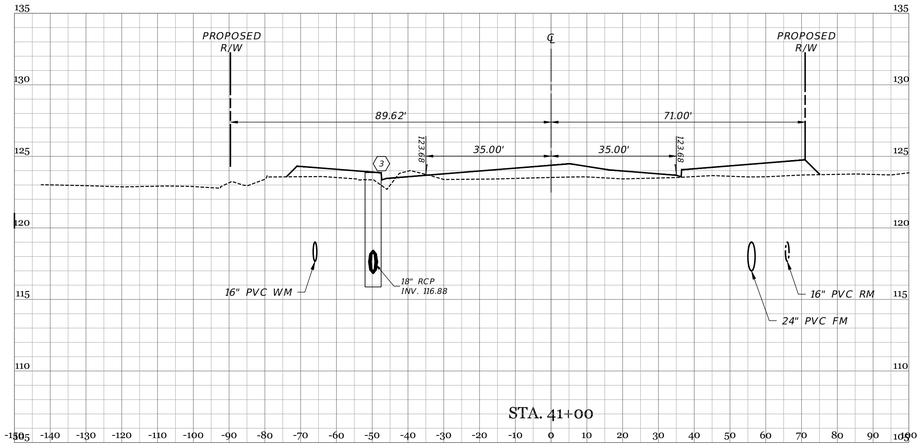

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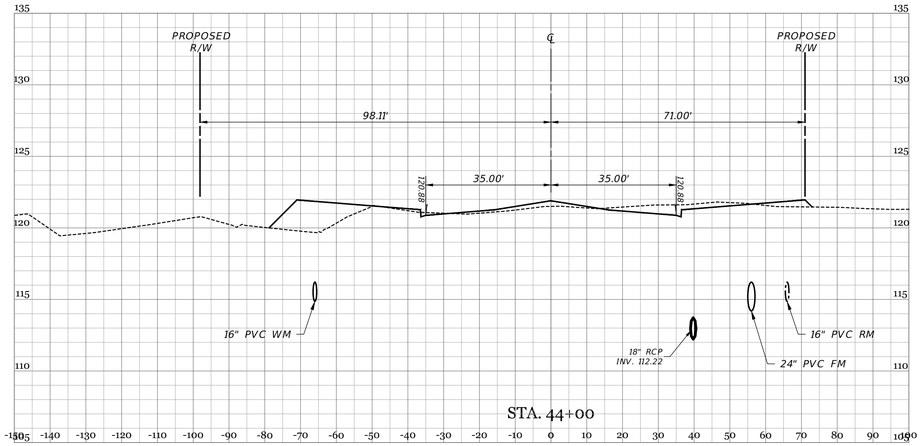

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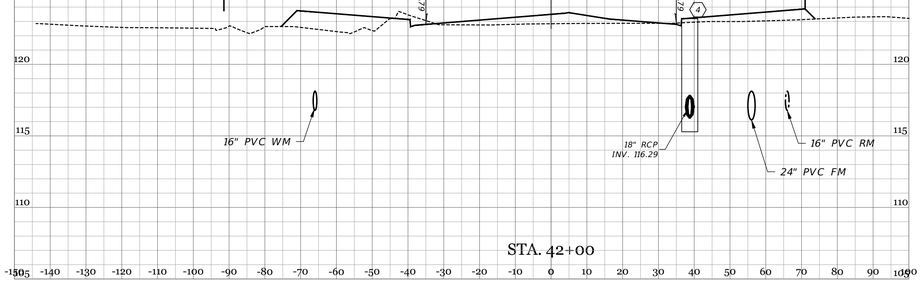

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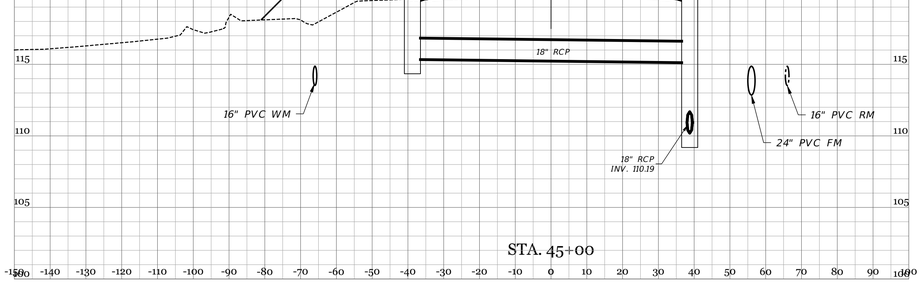

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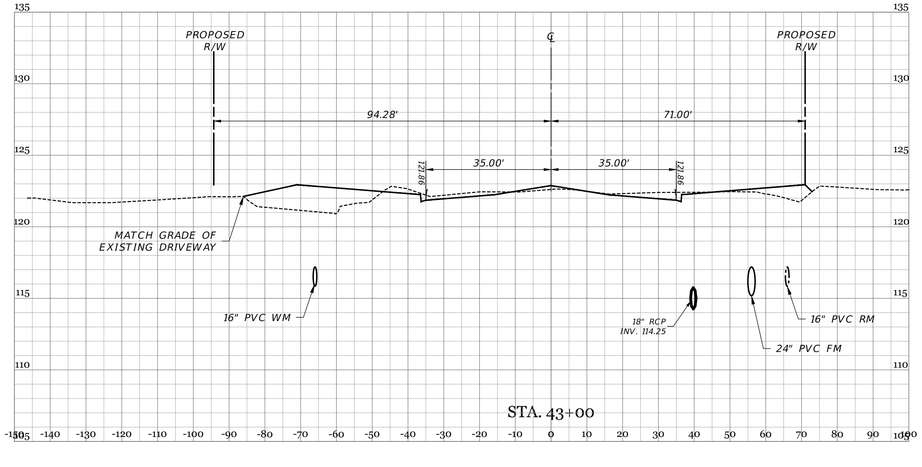

STA. 43+00

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

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DATE 01/15/2026
JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

KENTON ROAD CROSS-SECTIONS

JOB NO. PHC-AP-007
DESIGN OBRIEN
DRAWN OBRIEN
DATE 01-15-2026
FILE RDX

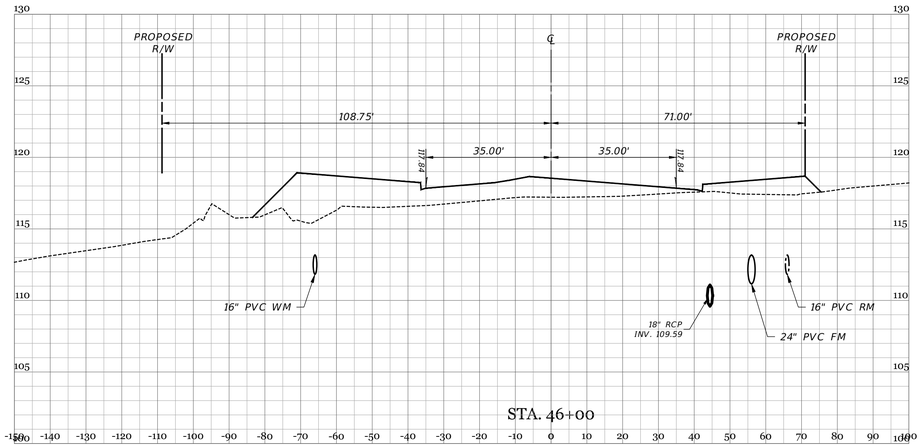
KENTON ROAD
1ST EXTENSION MODIFICATION

PREPARED FOR: PULTE HOME COMPANY, LLC

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

SHEET 21 OF 34 SHEETS

P:\APRIL\KENTON ROAD MODIFICATION\DRAWING\CONDOC\RDX.DWG-21 KENTON ROAD CROSS-SECTIONS 2026/01/15 2:26 PM CLD ENGINEER



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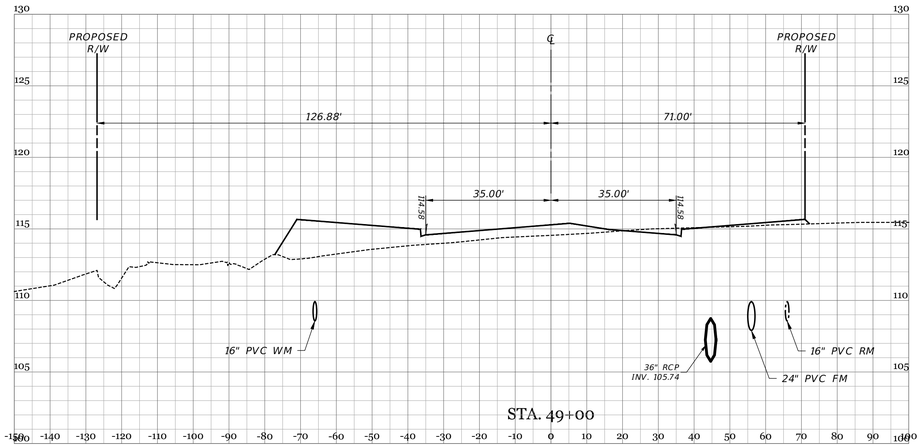

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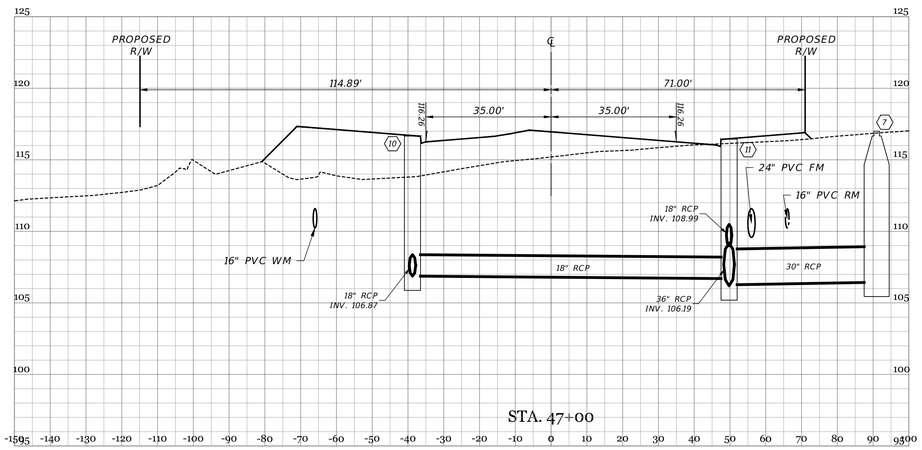

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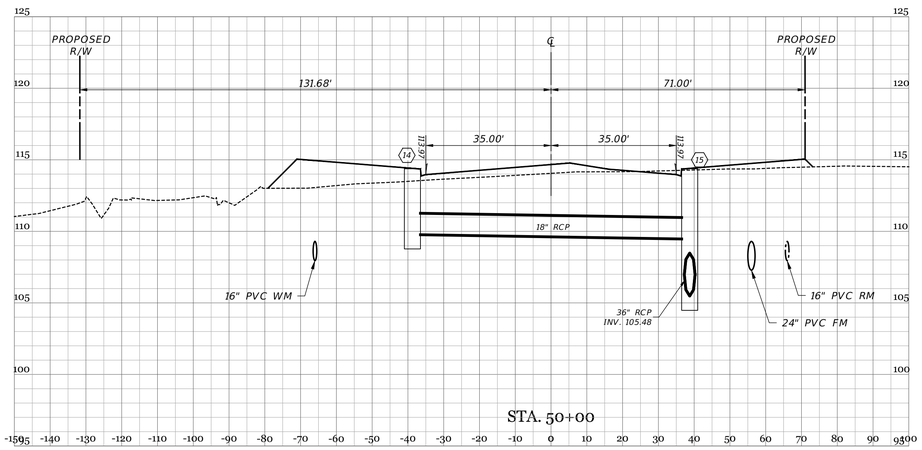

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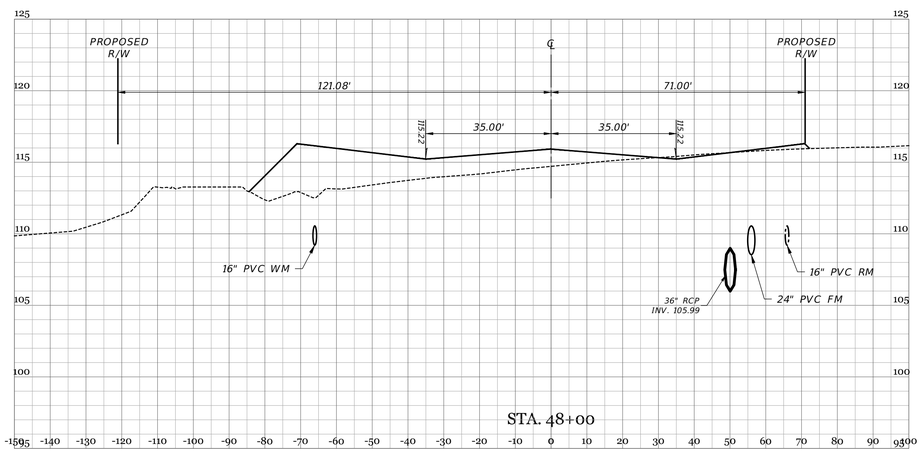

STA. 48+00

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

Clearview LAND DESIGN, P.L.

Registered Business Number: RY28858
3010 W Azeele St., Suite 150, Tampa, Florida 33609
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DATE 01/15/2026
JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

KENTON ROAD CROSS-SECTIONS

JOB NO. PHC-AP-007	KENTON ROAD 1ST EXTENSION MODIFICATION
DESIGN OBRIEN	
DRAWN OBRIEN	PREPARED FOR: PULTE HOME COMPANY, LLC
DATE 01-15-2026	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = -0.84 Feet
FILE RDX	**SHEET 22 OF 34 SHEETS**

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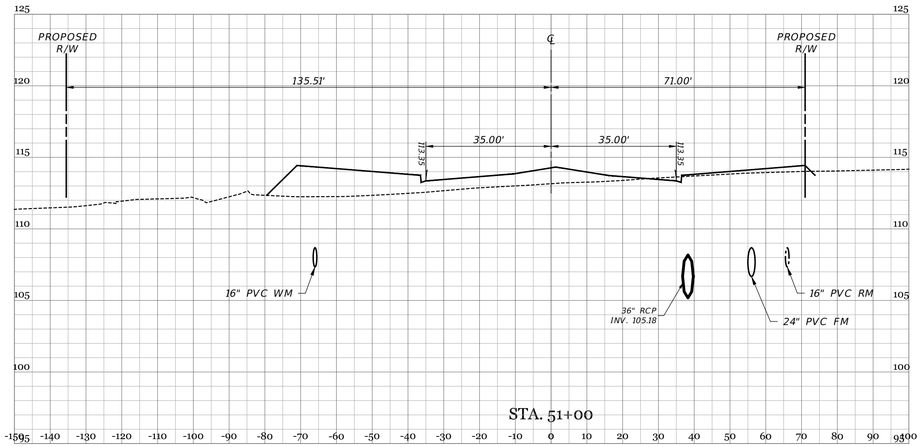

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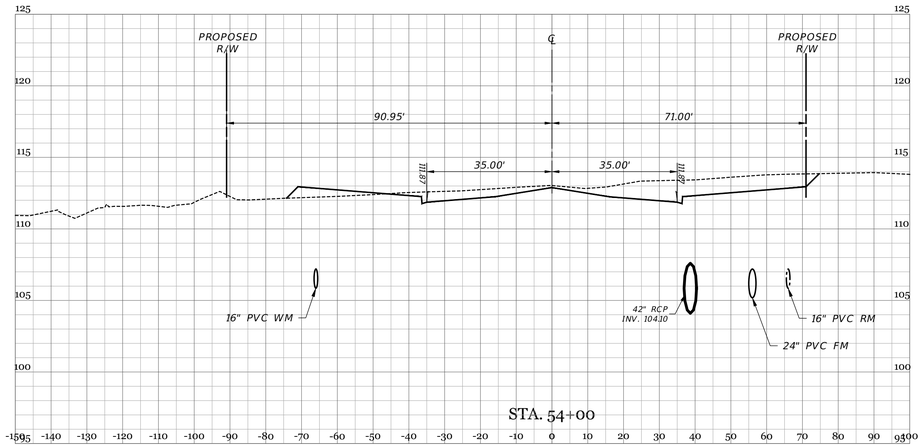

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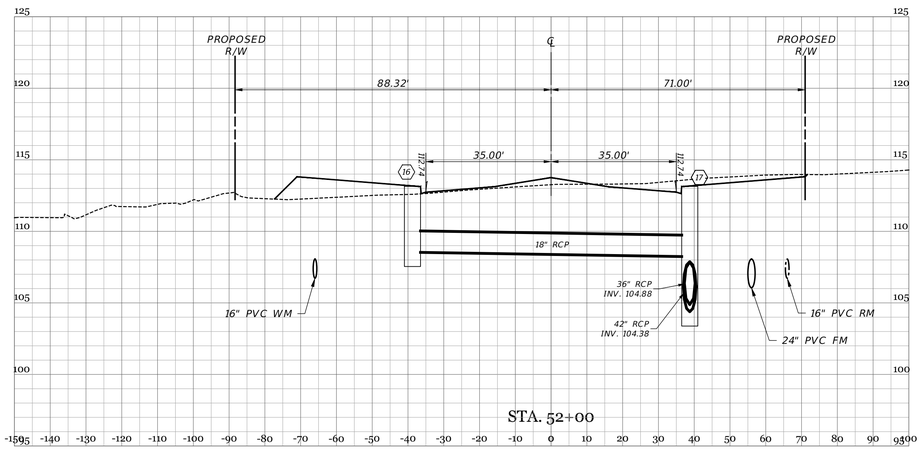

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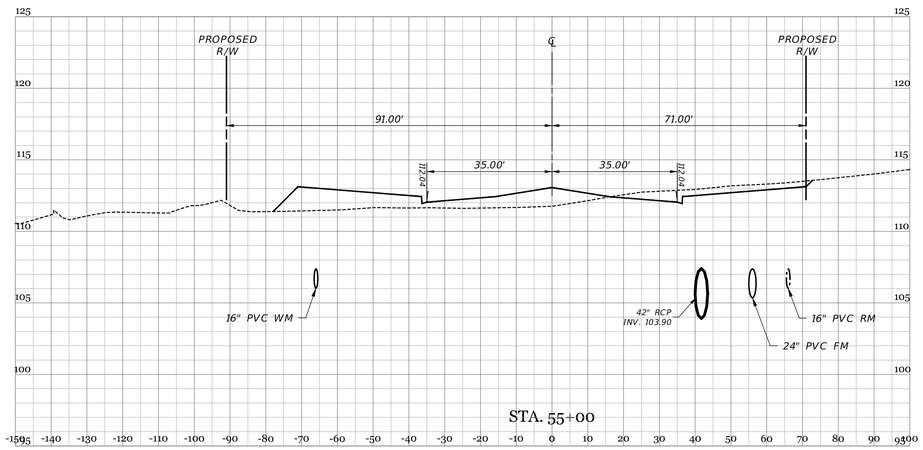

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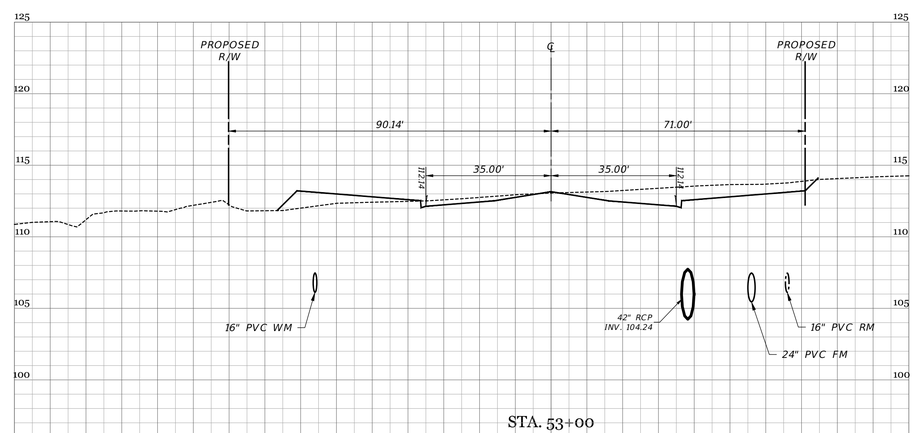

STA. 53+00

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

Clearview LAND DESIGN, P.L.
Registered Business Number: RY28858
3010 W Azeele St., Suite 150, Tampa, Florida 33609
Office: 813-223-3919 Fax: 813-223-3975

This item has been digitally signed and sealed by JORDAN A. SCHRADER, P.E. on the date adjacent to the seal. Signature must be verified on any electronic copies.

DATE:01/15/2026
JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

KENTON ROAD CROSS-SECTIONS

JOB NO. PHC-AP-007	KENTON ROAD 1ST EXTENSION MODIFICATION
DESIGN OBRIEN	
DRAWN OBRIEN	PREPARED FOR: PULTE HOME COMPANY, LLC
DATE 01-15-2026	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = -0.84 Feet
FILE RDX	SHEET 23 OF 34 SHEETS

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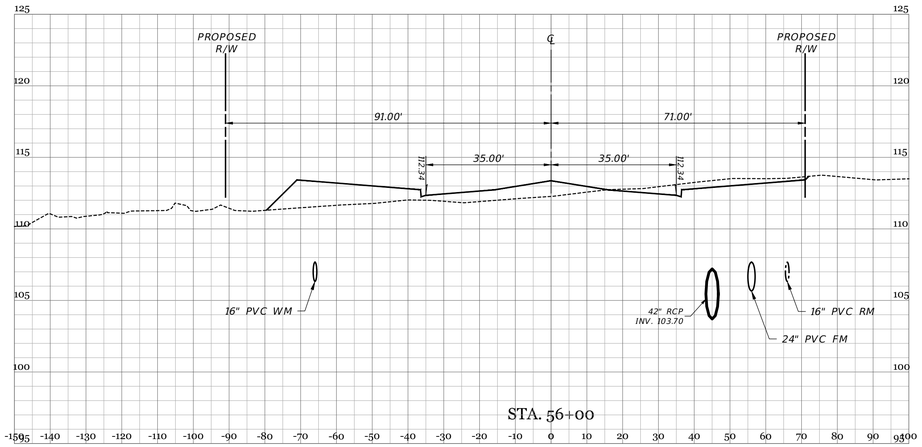

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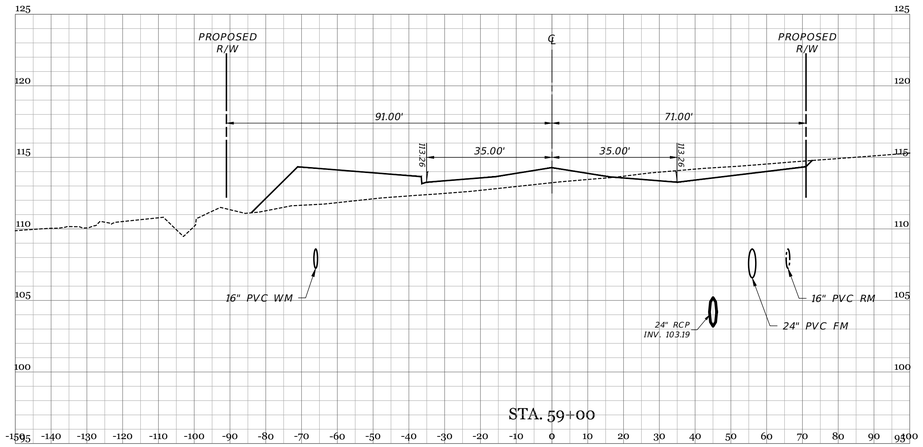

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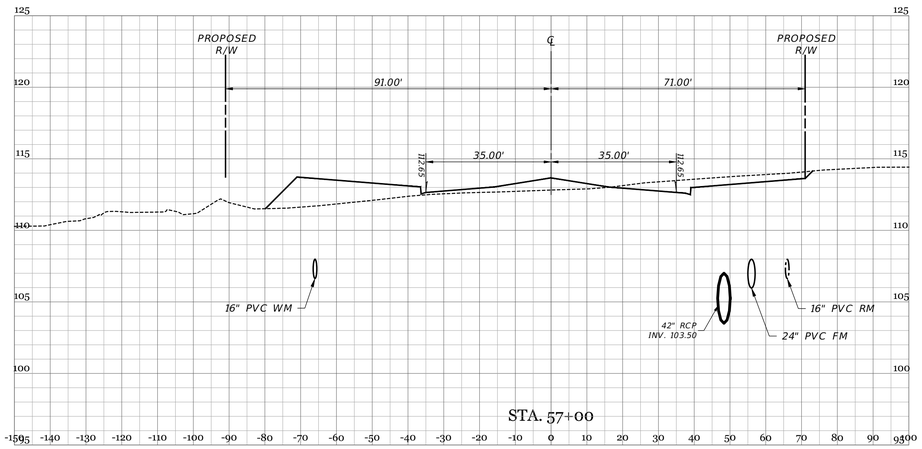

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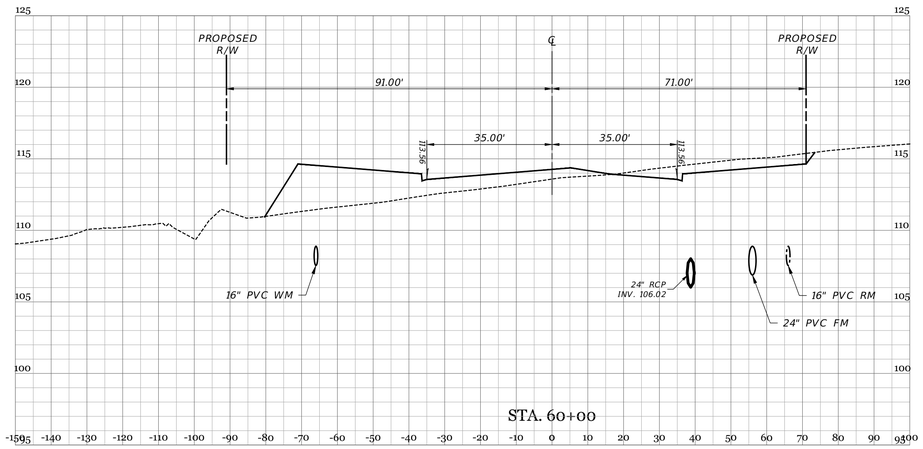

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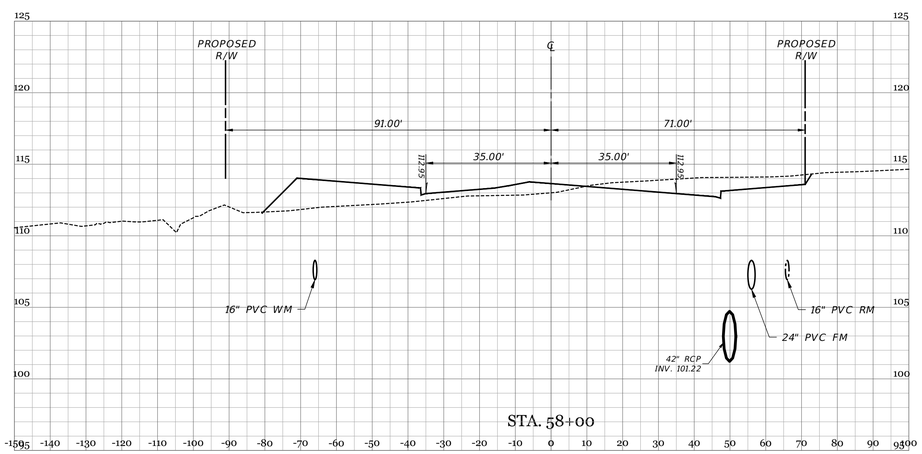

STA. 58+00

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

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DATE:01/15/2026
JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

KENTON ROAD CROSS-SECTIONS

JOB NO. PHC-AP-007	KENTON ROAD 1ST EXTENSION MODIFICATION
DESIGN OBRIEN	
DRAWN OBRIEN	PREPARED FOR: PULTE HOME COMPANY, LLC
DATE 01-15-2026	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = -0.84 Feet
FILE RDX	SHEET 24 OF 34 SHEETS

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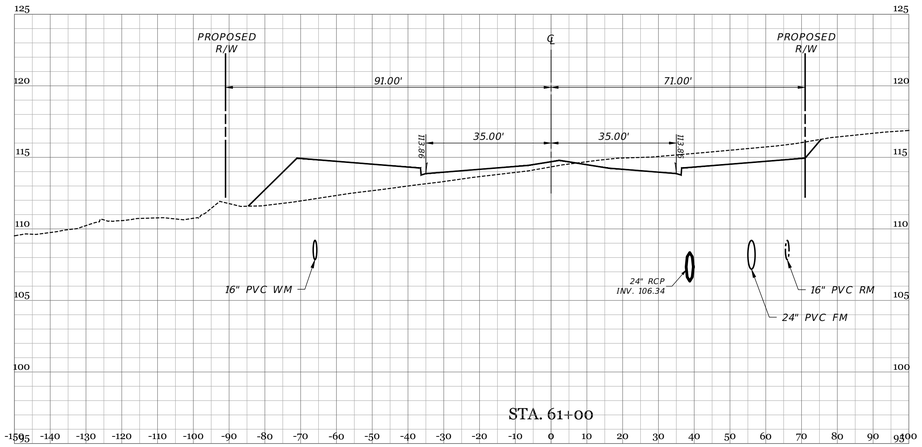

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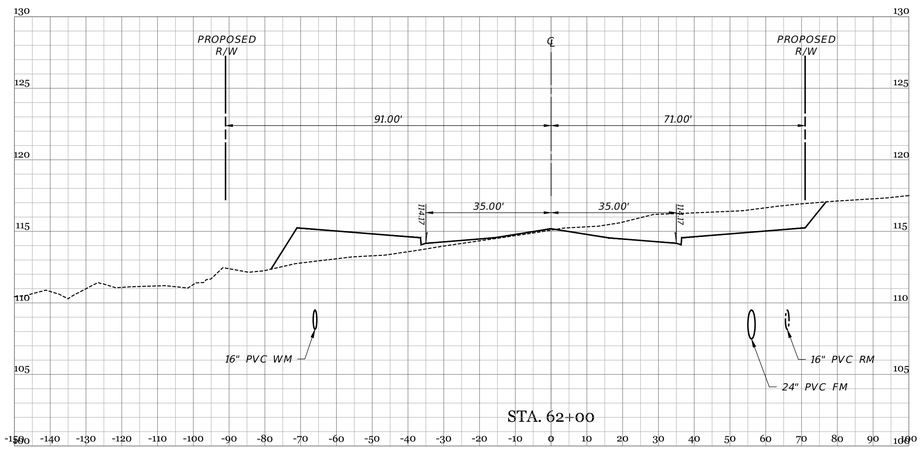

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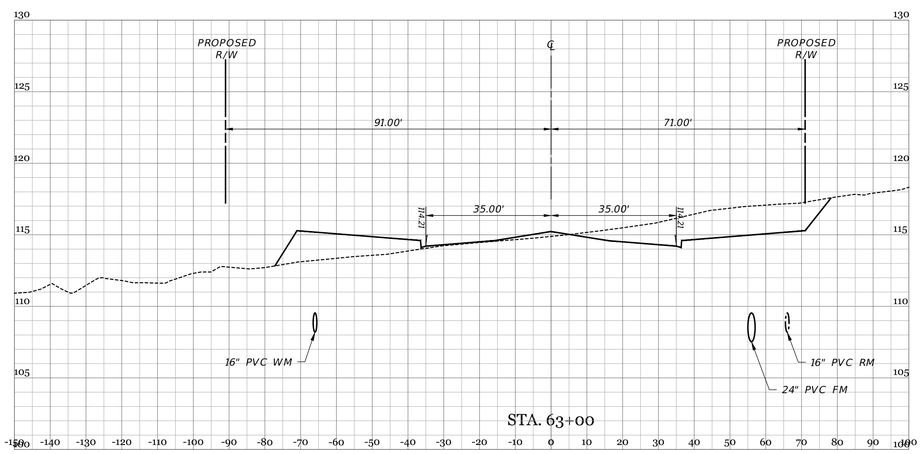

STA. 63+00

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL

DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

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DATE:01/15/2026
JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

KENTON ROAD CROSS-SECTIONS

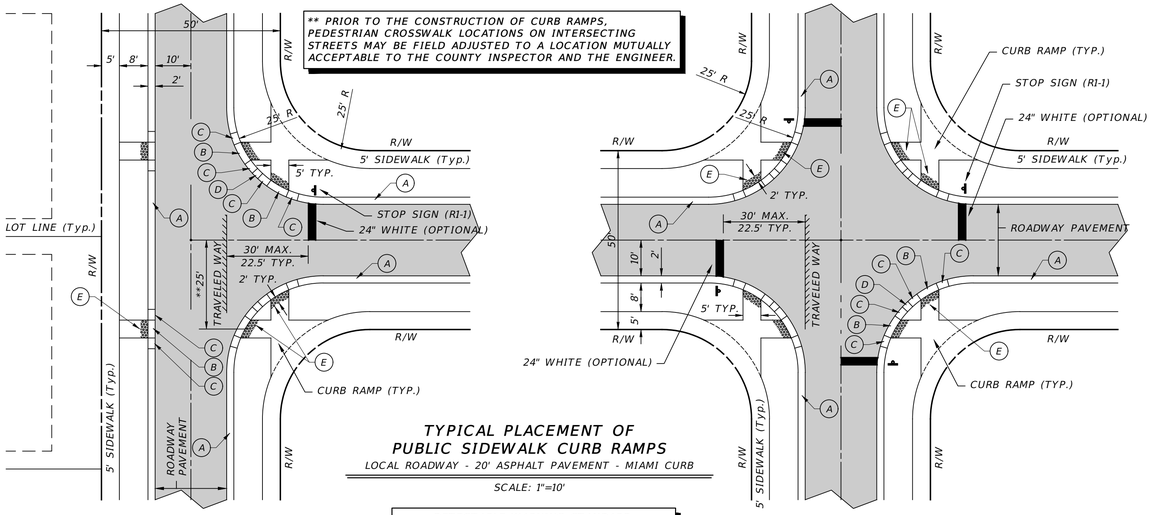
JOB NO.	PHC-AP-007
DESIGN	OBRIEN
DRAWN	OBRIEN
DATE	01-15-2026
FILE	RDX

KENTON ROAD
1ST EXTENSION MODIFICATION

PREPARED FOR: PULTE HOME COMPANY, LLC

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

P:\APRIL\KENTON ROAD MODIFICATION\DRAWING\CONDOCS\RDX.DWG-25 KENTON ROAD CROSS-SECTIONS 2026/01/15 2:26 PM CLD ENGINEER01



THREE-LEG INTERSECTION

FOUR-LEG INTERSECTION

TYPICAL PLACEMENT OF PUBLIC SIDEWALK CURB RAMPS

LOCAL ROADWAY - 20' ASPHALT PAVEMENT - MIAMI CURB

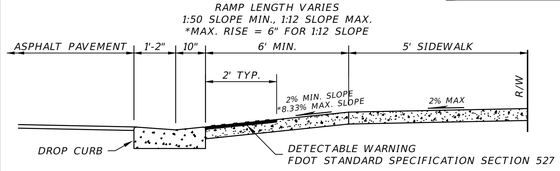
SCALE: 1"=10'

DETECTABLE WARNING STANDARD

(REFER TO LOCAL COLOR STANDARD)

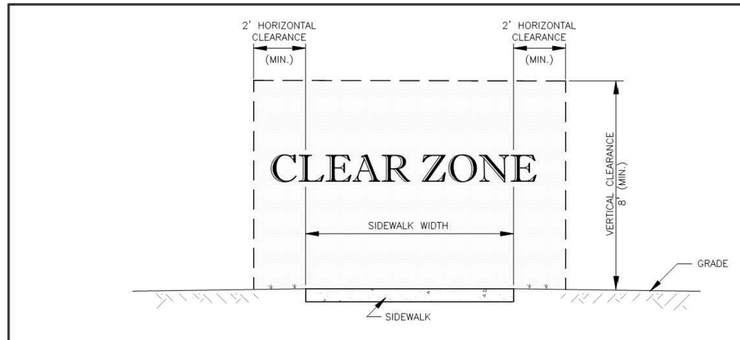
BLACK - FDOT
BRICK RED - CITY OF TAMPA
RED - HILLSBOROUGH COUNTY

- (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.)



RAMP PROFILE

NOT TO SCALE



SIDEWALK CLEAR ZONE SECTION

NTS

NOTES:

1. THIS CLEAR ZONE APPLIES TO THE SIDEWALK ONLY. IT IS NOT INTENDED FOR ROADWAY PLACEMENT SET BACKS.
2. 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.
3. THE SIDEWALK HORIZONTAL CLEAR ZONE CLEARANCE IS MEASURED FROM THE SIDEWALK EDGE AND SHALL BE A MINIMUM OF 2 FEET.
4. THE SIDEWALK VERTICAL CLEAR ZONE CLEARANCE IS MEASURED FROM THE FINISHED SIDEWALK SURFACE AND SHALL BE A MINIMUM OF 8 FEET.

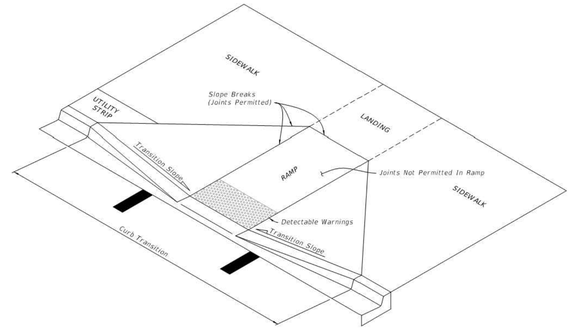
NOTE:
NO DEVIATIONS TO THIS DETAIL WILL BE PERMITTED UNLESS APPROVED BY THE COUNTY ENGINEER.
ANY PROPOSED ALTERATIONS SHALL BE CLEARLY IDENTIFIED AND HIGHLIGHTED ON DETAIL.

PASCO COUNTY ENGINEERING SERVICES DESIGN STANDARDS	SIDEWALK CLEAR ZONE	Sheet No. 1 of 1
	APPROVED BY JCW BCC APPROVAL REVISED	Index No. 106

10/17/2023 9:09:31 AM P:\PROJECTS\PASCO_COUNTY\DESIGN\STANDARDS\106.dgn

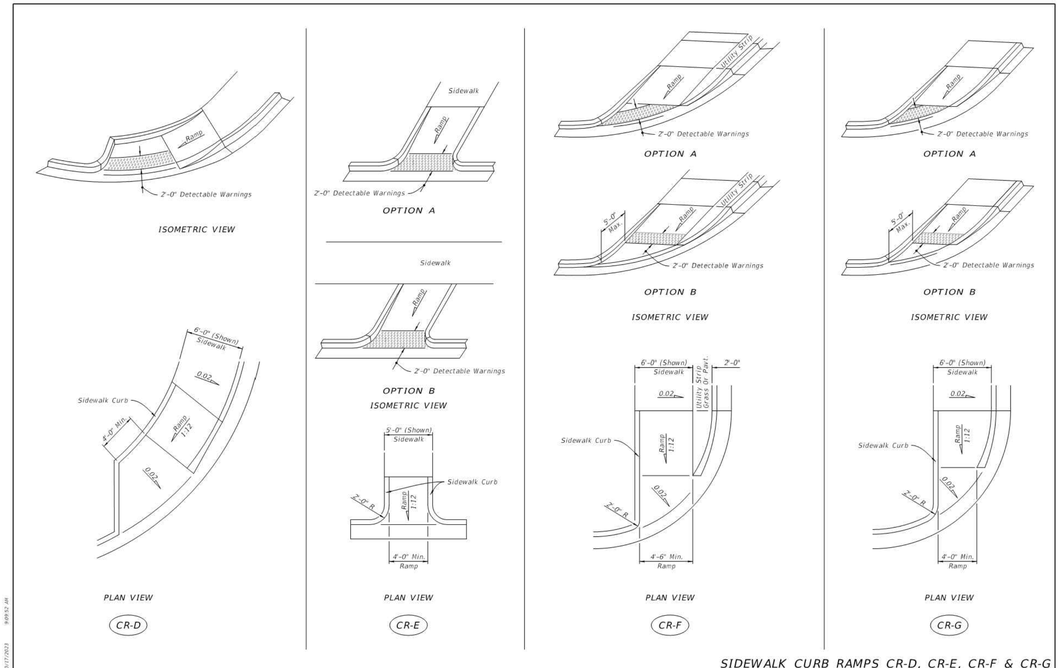
GENERAL NOTES:

1. 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. Maintain a single longitudinal slope along each side of the curb ramp. 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.
2. Curb, Curb and Gutter and/or Sidewalk:
   - A. Refer to Index 522-001 for concrete thickness and sidewalk details.
   - B. Remove any existing curb, curb and gutter, or sidewalk to the nearest joint beyond the curb transition or to the extent that no remaining section is less than 5 feet long.
   - C. Width of Curb Ramp is 4'-0" minimum. Match sidewalk or Shared Use Path width as shown in the Plans.
3. 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-I and CR-J are intentionally omitted.
4. 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 in the Plans on slopes greater than 5%, align the truncated domes with the centerline of the ramp; otherwise, the truncated domes are not required to be aligned.



CURB RAMP NOMENCLATURE

LAST REVISION 11/01/21	REVISION	DESCRIPTION:	FDOT FY 2024-25 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX 522-002	SHEET 1 of 7



SIDEWALK CURB RAMPS CR-D, CR-E, CR-F & CR-G

LAST REVISION 11/01/21	REVISION	DESCRIPTION:	FDOT FY 2024-25 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX 522-002	SHEET 4 of 7

DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

Clearview LAND DESIGN, P.L.

Registered Business Number: RY28858
3010 W Azeele St., Suite 150, Tampa, Florida 33609
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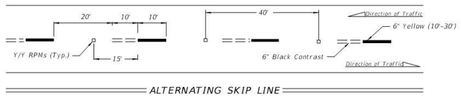
DATE 01/15/2026
JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

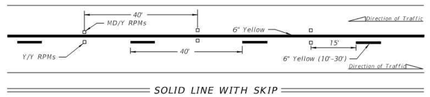
SIDEWALK, SIGNING & PAVEMENT MARKING DETAILS

JOB NO. PHC-AP-007	KENTON ROAD 1ST EXTENSION MODIFICATION
DESIGN OBRIEN	
DRAWN OBRIEN	PREPARED FOR: PULTE HOME COMPANY, LLC
DATE 01-15-2026	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = -0.84 Feet
FILE SWD	SHEET 26 OF 34 SHEETS

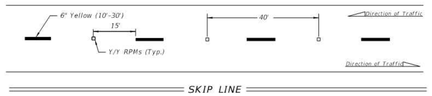
P:\APRILE\KENTON ROAD MODIFICATION\DRAWING\CONDOC\SWD.DWG-26 SIDEWALK SIGNING & PAVEMENT MARKING DETAILS 2026/01/15 2:27 PM CLD ENGINEER01



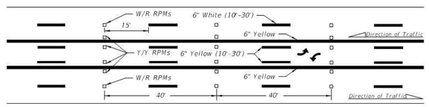
ALTERNATING SKIP LINE



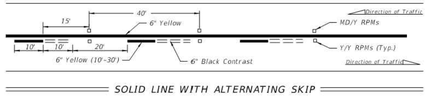
SOLID LINE WITH SKIP



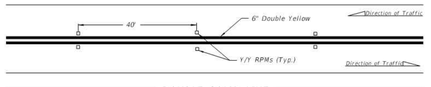
SKIP LINE



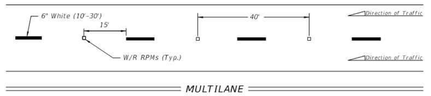
SKIP LINE WITH TWO-WAY LEFT TURN LANE



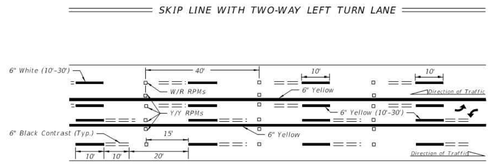
SOLID LINE WITH ALTERNATING SKIP



DOUBLE SOLID LINE



MULTILANE



ALTERNATING SKIP LINE WITH TWO-WAY LEFT TURN LANE

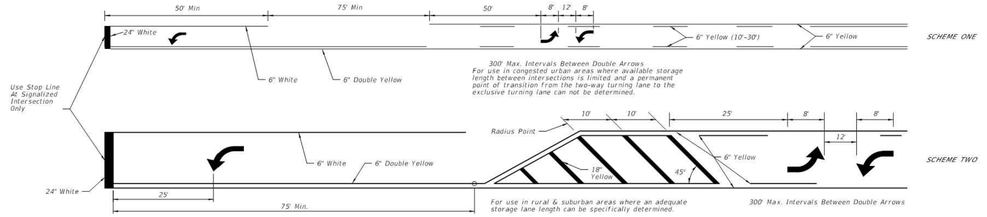
NOTES:

1. Offset all RPMs 1" from solid longitudinal lines unless otherwise noted or shown.
2. Spacing may be reduced for sharp curves if required.
3. For placement of RPMs on ramps, see Index 711-003.
4. Make the traffic face of the RPM the same color as the pavement marking that it is supplementing.

LEGEND:

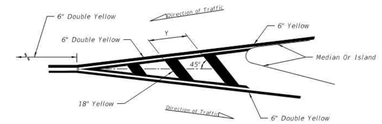
B/C = BACK OF CURB
EOP = EDGE OF PAVEMENT
RPM = RAISED PAVEMENT MARKER
W/R = WHITE/RED RPM
Y/Y = YELLOW/YELLOW RPM
Y/R = YELLOW/RED RPM
MD/Y = MONO-DIRECTIONAL YELLOW RPM

LAST REVISION 11/01/18	REVISION	DESCRIPTION:	FDOT FY 2024-25 STANDARD PLANS	TYPICAL PLACEMENT OF RAISED PAVEMENT MARKERS	INDEX 706-001	SHEET 1 of 6

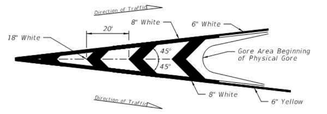


TWO WAY LEFT TURN LANE
(With Single Lane Left Turn Channelization)

POSTED SPEED LIMIT MPH	"Y" (FT.)
30 OR LESS	10
35	20
40	20
45	30
50 OR MORE	40

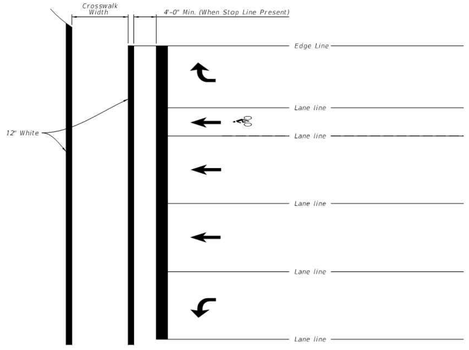


MARKINGS FOR TRAFFIC SEPARATION

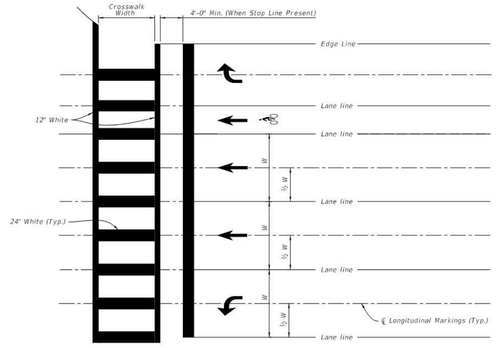


TRAFFIC CHANNELIZATION AT GORE

LAST REVISION 11/01/21	REVISION	DESCRIPTION:	FDOT FY 2024-25 STANDARD PLANS	PAVEMENT MARKINGS	INDEX 711-001	SHEET 8 of 13



STANDARD CROSSWALK DETAILS



SPECIAL EMPHASIS CROSSWALK DETAILS

NOTES:

1. For crosswalk width, exceed width of the adjacent sidewalk, but do not make width less than 6' for intersection crosswalks and 10' for midblock crosswalks. Measure width from the inside of the transverse crosswalk markings.
2. When the Special Emphasis Crosswalk is not perpendicular to the lane lines, make the longitudinal markings parallel to the lane lines.
3. Refer to Index 522-002 when Curb Ramps are present.

LAST REVISION 11/01/21	REVISION	DESCRIPTION:	FDOT FY 2024-25 STANDARD PLANS	PAVEMENT MARKINGS	INDEX 711-001	SHEET 9 of 13

TYPICAL SIGNING AND PAVEMENT MARKING FOR RESIDENTIAL AND MINOR STREET TERMINATIONS

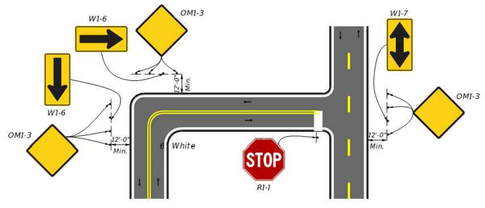


Figure 1
TRAFFIC CONTROLS FOR MINOR STREET TERMINATION

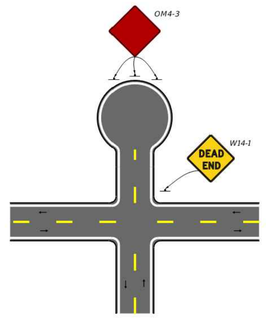
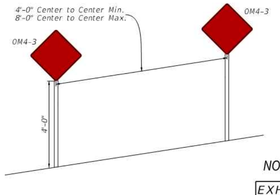


Figure 2
TRAFFIC CONTROLS FOR CUL-DE-SAC OR DEAD END

Installation Details

1) Major streets to be evaluated on a case-by-case basis.
2) Install Object Markers in accordance with Index 700-010
3) See Index 711-001 for pavement markings.
4) Provide sheeting on signs and object markers in accordance with Specification 993.

Legend
→ Direction of travel



NOT TO SCALE

EXHIBIT 230-13
06/01/2021

DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS
REVISIONS		

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

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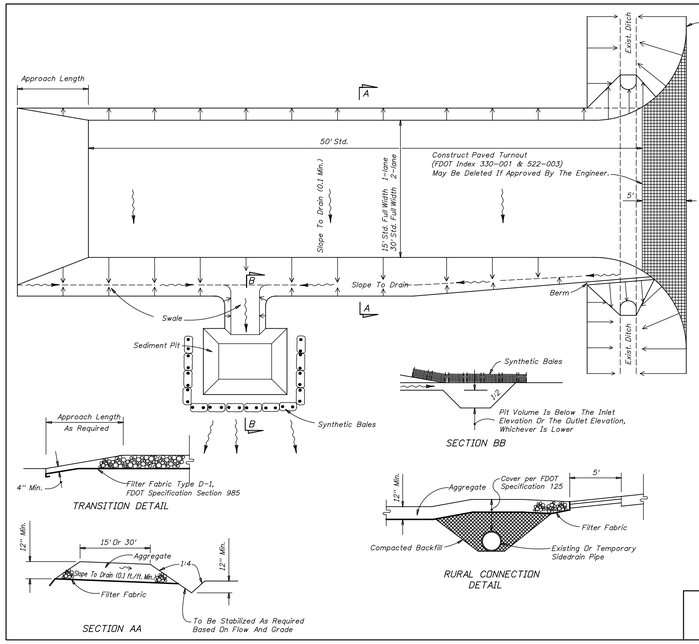
This item has been digitally signed and sealed by JORDAN A. SCHRADER, P.E. on the date adjacent to the seal. Signature must be verified on any electronic copies.

DATE 01/15/2026
JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

SIDEWALK, SIGNING & PAVEMENT MARKING DETAILS

JOB NO. PHC-AP-007	KENTON ROAD 1ST EXTENSION MODIFICATION
DESIGN OBRIEN	
DRAWN OBRIEN	PREPARED FOR: PULTE HOME COMPANY, LLC
DATE 01-15-2026	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = -0.84 Feet
FILE SWD	SHEET 27 OF 34 SHEETS

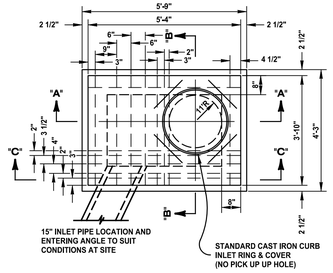
P:\APRILE\VENTON ROAD MODIFICATION\DRAWING\CONDOC\SWD.DWG-27 SIDEWALK SIGNING & PAVEMENT MARKING DETAILS 2026/01/15 2:27 PM CLD ENGINEER



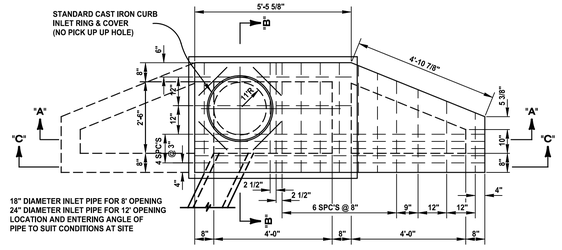
GENERAL NOTES

1. A Soil Tracking Prevention Device (STPD) shall be constructed at locations designated by the engineer for points of egress from unstabilized areas of the project to public roads where off-site tracking of mud could occur. Traffic from unstabilized areas of the construction project shall be directed thru a STPD. Barriers, flagging, or other positive means shall be used as required to limit and direct vehicular egress across the STPD.
2. The Contractor may propose an alternative technique to minimize off-site tracking of sediment. The alternative must be reviewed and approved by the Engineer prior to its use.
3. All materials spilled, dropped, or tracked onto public roads (including the STPD aggregate and construction mud) shall be removed daily, or more frequently if so directed by the Engineer.
4. Aggregates shall be as described in Section 901 excluding 901-2.3. Aggregates shall be FDOT size #1. If this size is not available, the next available smaller size aggregate may be substituted with the approval of the Engineer. Sizes containing excessive small aggregate will track off the project and are unsuitable.
5. The sediment pit should provide a retention volume of 3600 cubic feet/acre of surface area draining to the pit. When the STPD is isolated from other drainage areas, the following pit volumes will satisfy this requirement:
   15' x 50'=100 ft.³ 30' x 50'=200 ft.³
   As an option to the sediment pit, the width of the swale bottom can be increased to obtain the volume. When the sediment pit or swale volume has been reduced to one half, it shall be cleaned. When a swale is used, synthetic bales or silt fence shall be placed along the entire length.
6. The swale ditch draining the STPD shall have a 0.02% minimum and a 1.0% maximum grade along the STPD and to the sediment pit.
7. Mitered end sections are not required when the sidedrain pipe satisfies the clear zone requirements.
8. The STPD shall be maintained in a condition that will allow it to perform its function. To prevent off-site tracking, the STPD shall be rinsed (daily when in use) to move accumulated mud downward thru the stone. Additional stabilization of the vehicular route leading to the STPD may be required to limit the mud tracked.
9. A STPD shall be paid for under the contract unit price for Soil Tracking Prevention Device, EA. The unit price shall constitute full compensation for construction, maintenance, replacement of materials, removal, and restoration of the area utilized for the STPD; including but not limited to excavation, grading, temporary pipe (including MES when required), filter fabric, aggregate, paved turnout (including asphalt and base construction), ditch stabilization, approach route stabilization, sediment removal and disposal, water, rinsing and cleaning of the STPD and cleaning of public roads, grassing and sod. Synthetic Bale or Bale Type Barrier shall be paid for under the contract unit price for Synthetic Bales, LF. Silt fence shall be paid for under the contract unit price for Staked Silt Fence, LF.
10. The nominal size of a standard STPD is 15' x 50' unless otherwise shown in the plans. If the volume of entering and existing vehicles warrant, a 30' width STPD may be used if approved by the Engineer. When a double width (30') STPD is used, the pay quantity shall be 2 for each location.

SOIL TRACKING PREVENTION DEVICE TYPE A



PLAN



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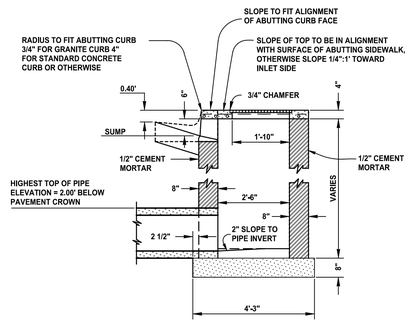
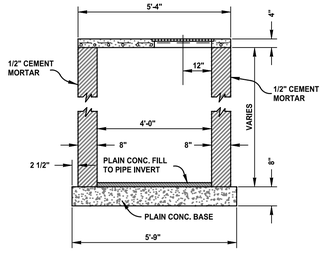
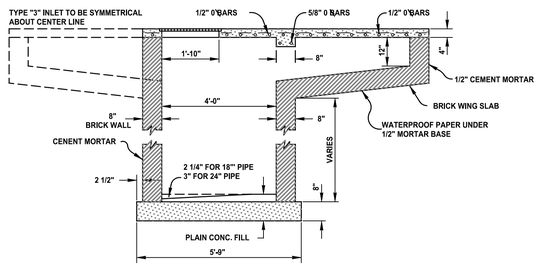


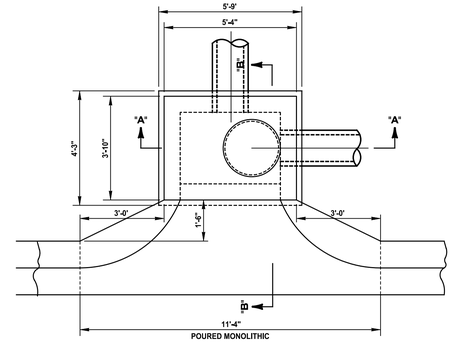
SECTION "B-B"
TYPE "F" CURB ONLY



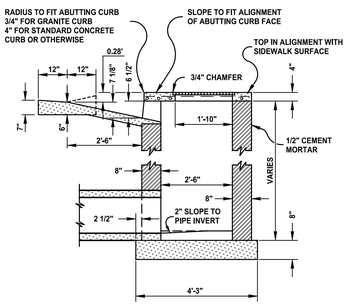
SECTION "A-A"



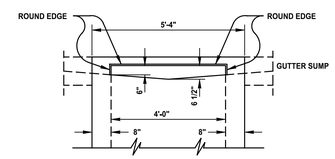
SECTION "A-A"



PLAN



SECTION "B-B"

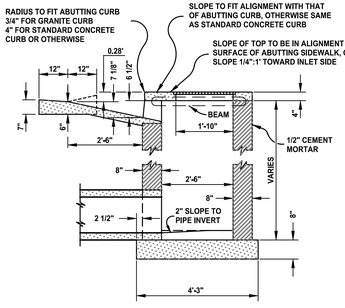


SECTION "C-C"

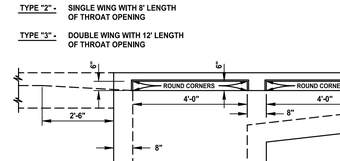
STANDARD STORM WATER CURB INLET TYPE 1

NOTES:
1) STRUCTURES LARGER THAN 4'x6' (INSIDE) SHALL BE PRECAST OR CAST-IN-PLACE.
2) ALL INSIDE BRICK WALLS TO BE PLASTERED WITH 1/2" MIN. OF 1:2 CEMENT MORTAR.

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'-8"
5	5/8" Ø	TRAFFIC BEARING ONLY	2'-4"



SECTION "B-B"



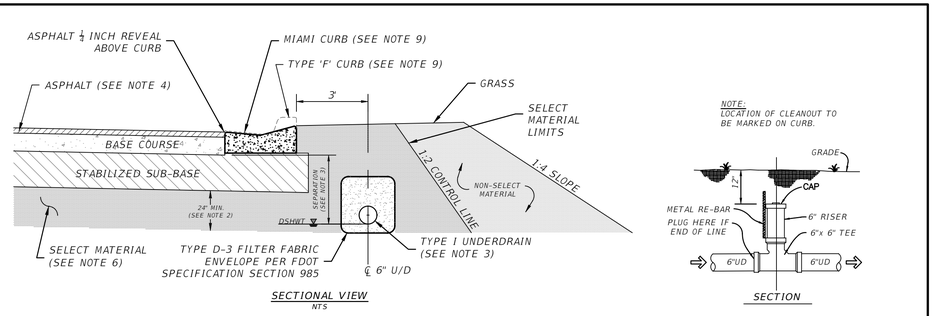
SECTION "C-C"

STANDARD STORM WATER CURB INLET TYPE 2 & 3

BAR SCHEDULE FOR TOP SLAB			
NO.	SIZE	LOCATION	LENGTH
8	1/2" Ø	TRANSVERSE BARS - STRAIGHT	3'-6"
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	5'-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.

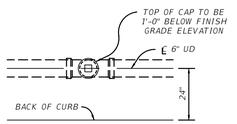
MUMS NOTE:
THIS CURB INLET HAS BEEN APPROVED BY PASCO COUNTY FOR USE ON NON-FUNCTIONALLY CLASSIFIED ROADWAYS, SUCH AS LOCAL STREETS AND SUBDIVISION COLLECTOR ROADWAYS. IT DOES NOT CONFORM TO THE FLORIDA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION, AND MAINTENANCE 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.



SECTIONAL VIEW
NTS

NOTE:
LOCATION OF CLEANOUT TO BE MARKED ON CURB.

SECTION



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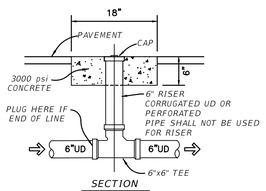

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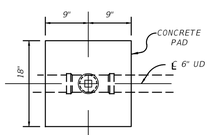

PLAN

CLEANOUT DETAIL
NTS

1. THE MINIMUM VERTICAL SEPARATION BETWEEN THE DESIGN SEASONAL HIGH WATER TABLE (DHSWT) AND THE BOTTOM OF THE BASE AT THE LOWEST EDGE OF PAVEMENT SHALL BE AS FOLLOWS:
   A. LIMEROCK BASE 24 INCH
   B. SOIL CEMENT BASE 12 INCH
   C. CRUSHED CONCRETE BASE (IF APPROVED) 12 INCH
   D. ASPHALT BASE COURSE (ABC) 12 INCH
2. 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.
3. TYPE I UNDERDRAIN PER FDOT INDEX 440-001
   3.1. MINIMUM UNDERDRAIN SLOPE = 0.2% (FDOT INDEX 120-002)
   3.2. UNDERDRAIN SHALL HAVE A TYPE D-3 FILTER FABRIC ENVELOPE PER FDOT SPECIFICATION SECTION 985
   3.3. UNDERDRAIN PIPE SIZE = 6"
   3.4. 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.
   3.5. THE INVERT OF A SIX (6) INCH UNDERDRAIN SHALL BE TWO (2) FEET MINIMUM BELOW THE BOTTOM OF THE BASE.
4. 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 SPHALTIC CONCRETE. TYPE ROADWAYS MAY BE COMPLETED IN STAGES, INITIALLY 2.25 INCHES OF SP 12.5 (S-1) ASPHALT COURSE WITH REQUIRED PAVEMENT MARKINGS AND 0.75 INCHES OF SP 9.5 (S-3) COURSE INSTALLED WITH ANY THERMOPLASTIC STRIPES, PRIOR TO RELEASE OF THE ASSURANCE FOR MAINTENANCE.
5. 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.
6. SELECT MATERIAL SHALL BE PLACED PER FOOT INDEX DRAWINGS 120-001 & 120-002.
7. THE REQUIRED MINIMUM STRUCTURAL NUMBER (SN) SHALL BE;
   2.34 MIN. TYPE 2 ROADWAY
   3.50 MIN. TYPE I ROADWAYS
   3.70 MIN. COUNTY COLLECTOR
   4.00 MIN. COUNTY ARTERIAL
8. 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.
9. 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 DESIGN CRITERIA & UNDERDRAIN DETAIL

DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Office: 813-223-3919 Fax: 813-223-3975

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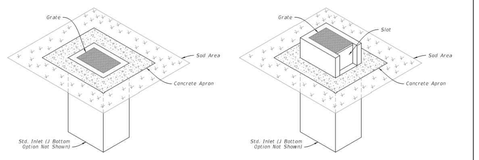
DATE 01/15/2026
JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

DRAINAGE DETAILS

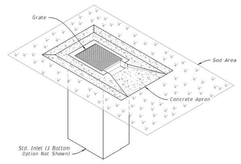
JOB NO. PHC-AP-007	KENTON ROAD 1ST EXTENSION MODIFICATION
DESIGN OBRIEN	
DRAWN OBRIEN	PREPARED FOR: PULTE HOME COMPANY, LLC
DATE 01-15-2026	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = -0.84 Feet
FILE DD	SHEET 28 OF 34 SHEETS

P:\APRIL\KENTON ROAD MODIFICATION\DRAWING\CONDOCS\DD.DWG-28 DRAINAGE DETAILS 2026/01/15 2:27 PM CLD ENGINEER01



DITCH BOTTOM INLET TYPE C TRAVERSABLE
(Without Slot – Type D, E, and H Similar, Pipe Connection Not Shown)

DITCH BOTTOM INLET TYPE C NON-TRAVERSABLE
(Slot > 7" Shown – Type D, E, and H Similar, Pipe Connection Not Shown)



DITCH BOTTOM INLET TYPE C TRAVERSABLE
(Single Slot < 7" Shown, Double Slot, Type D, and E Similar, Pipe Connection Not Shown)

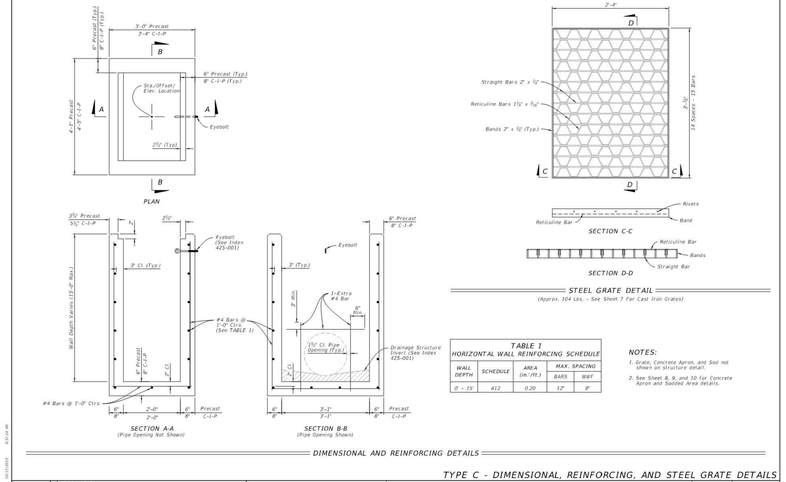
GENERAL NOTES:

1. Work this Index with Index 425-001 and Index 425-010.
2. Chamfer all exposed edges and corners ¾" chamfer or tooled to ¾" radius.
3. All reinforcing is Grade 60 bars with 2" minimum cover unless otherwise noted. Cut or bend bars for 1½" clearance around pipe opening. Provide one additional #4 bar above and at each side of pipe opening.
4. Use Concrete Apron on inlets without slots and inlets with non-traversable slots only when called for in the Plans.
5. Quantities are for informational and estimating purposes only.
6. Slots are not permitted on sides with grate seats.

TABLE OF CONTENTS:

Sheet	Description
1	General Notes and Contents
2	Type C – Dimensional, Reinforcing, and Grate Details
3	Type D – Dimensional, Reinforcing, and Grate Details
4	Type E – Dimensional, Reinforcing, and Grate Details
5	Type H (2 & 3 Grate) – Dimensional, Reinforcing, and Steel Grate Details
6	Type H (4 Grate) – Dimensional, Reinforcing, and Steel Grate Details
7	Cast Iron Grate Details
8	Non-Traversable Inlet Details
9	Traversable Inlet Without Slot Details
10	Traversable Inlet With Slot Details
11	Case 1 – Add Traversable Slots to Existing Inlets
12	Case 2 – Add Traversable Slots (Partial) to Existing Inlets
13	Case 3 – Add Traversable Slots (Partial) to Existing Inlets and Ditch Block
14	Alternate A Structure Bottom – Top Slab Details

LAST REVISION	CODE	DESCRIPTION:	FDOT	FY 2024-25 STANDARD PLANS	DITCH BOTTOM INLET TYPES C, D, E, AND H	INDEX	SHEET
11/01/23						425-052	1 of 14



STEEL GRATE DETAIL
(Approx. 304 Lbs. – See Sheet 7 For Cast Iron Grates)

TABLE 1
HORIZONTAL WALL REINFORCING SCHEDULE

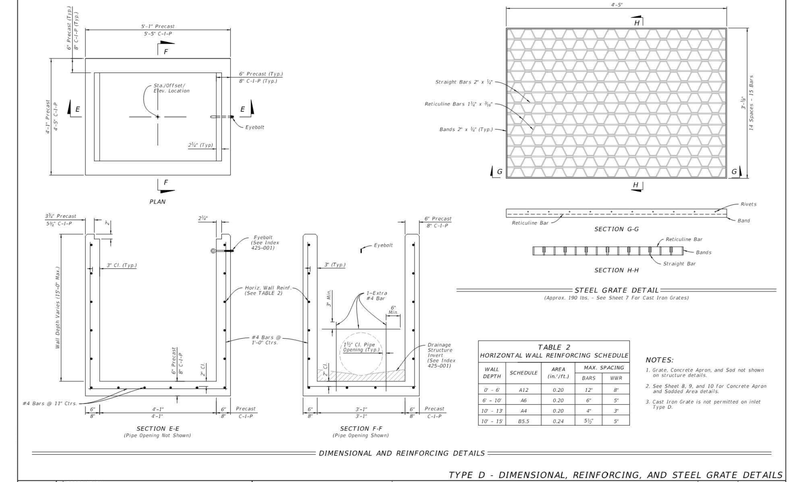
WALL DEPTH	SCHEDULE	AREA (in.²/ft.)	MAX. SPACING BARS	MAX. SPACING WWR
0' – 15'	A12	0.20	12"	8"

NOTES:
1. Grate, Concrete Apron, and Sod not shown on structure detail.
2. See Sheet 8, 9, and 10 For Concrete Apron and Sodded Area details.

DIMENSIONAL AND REINFORCING DETAILS

TYPE C - DIMENSIONAL, REINFORCING, AND STEEL GRATE DETAILS

LAST REVISION	CODE	DESCRIPTION:	FDOT	FY 2024-25 STANDARD PLANS	DITCH BOTTOM INLET TYPES C, D, E, AND H	INDEX	SHEET
11/01/20						425-052	2 of 14



STEEL GRATE DETAIL
(Approx. 190 lbs. – See Sheet 7 For Cast Iron Grates)

TABLE 2
HORIZONTAL WALL REINFORCING SCHEDULE

WALL DEPTH	SCHEDULE	AREA (in.²/ft.)	MAX. SPACING BARS	MAX. SPACING WWR
0' – 6'	A12	0.20	12"	8"
6' – 10'	A6	0.20	6"	5"
10' – 13'	A4	0.20	4"	3"
10' – 15'	B5.5	0.24	5½"	5"

NOTES:
1. Grate, Concrete Apron, and Sod not shown on structure details.
2. See Sheet 8, 9, and 10 for Concrete Apron and Sodded Area details.
3. Cast Iron Grate is not permitted on inlet Type D.

DIMENSIONAL AND REINFORCING DETAILS

TYPE D - DIMENSIONAL, REINFORCING, AND STEEL GRATE DETAILS

LAST REVISION	CODE	DESCRIPTION:	FDOT	FY 2024-25 STANDARD PLANS	DITCH BOTTOM INLET TYPES C, D, E, AND H	INDEX	SHEET
11/01/20						425-052	3 of 14

STEEL GRATE DETAIL
(Approx. 215 lbs. – See Sheet 7 For Cast Iron Grates)

TABLE 3
HORIZONTAL WALL REINFORCING SCHEDULE

WALL DEPTH	SCHEDULE	AREA (in.²/ft.)	MAX. SPACING BARS	MAX. SPACING WWR
0' – 5'	A12	0.20	12"	8"
0' – 7.5'	A6	0.20	6"	5"
7.5' – 10'	B5.5	0.24	5½"	5"
10' – 15'	C6.5	0.37	6½"	6"

NOTES:
1. Grate, Concrete Apron, and Sod not shown on structure detail.
2. See Sheet 8, 9, and 10 For Concrete Apron and Sodded Area details.

DIMENSIONAL AND REINFORCING DETAILS

TYPE E - DIMENSIONAL, REINFORCING, AND STEEL GRATE DETAILS

LAST REVISION	CODE	DESCRIPTION:	FDOT	FY 2024-25 STANDARD PLANS	DITCH BOTTOM INLET TYPES C, D, E, AND H	INDEX	SHEET
11/01/20						425-052	4 of 14

STEEL GRATE DETAIL
(2-Grates Shown, Approx. 310 lbs. – See Sheet 7 For Cast Iron, 3-Grates)

TABLE 4
HORIZONTAL WALL REINFORCING SCHEDULE

WALL DEPTH	SCHEDULE	AREA (in.²/ft.)	MAX. SPACING BARS	MAX. SPACING WWR
0' – 5'	B5.5	0.24	5½"	5"
5'-7'	C6.5	0.37	6½"	6"
7' – 15'	D4.5	0.53	4½"	4"

NOTES:
1. Grate, Concrete Apron, and Sod not shown on structure details.
2. See Sheet 8, 9, and 10 for Concrete Apron and Sodded Area details.
3. Pipe Spacing S = 3'-5"

DIMENSIONAL AND REINFORCING DETAILS

TYPE H (2 & 3 GRATE) - DIMENSIONAL, REINFORCING, AND STEEL GRATE DETAILS

LAST REVISION	CODE	DESCRIPTION:	FDOT	FY 2024-25 STANDARD PLANS	DITCH BOTTOM INLET TYPES C, D, E, AND H	INDEX	SHEET
11/01/20						425-052	5 of 14

STEEL GRATE DETAIL
(Approx. 388 lbs. – See Sheet 7 For Cast Iron Grates)

TABLE 5
HORIZONTAL WALL REINFORCING SCHEDULE

WALL DEPTH	SCHEDULE	AREA (in.²/ft.)	MAX. SPACING BARS	MAX. SPACING WWR
0' – 5'	C3.5	0.37	7½"	7"
5'-10'	D4.5	0.53	4½"	4"

NOTES:
1. Grate, Concrete Apron, and Sod not shown on structure details.
2. See Sheet 8, 9, and 10 for Concrete Apron and Sodded Area details.
3. Pipe Spacing S = 4'-3"

DIMENSIONAL AND REINFORCING DETAILS

TYPE H (4 GRATE) - DIMENSIONAL, REINFORCEMENT, AND STEEL GRATE DETAILS

LAST REVISION	CODE	DESCRIPTION:	FDOT	FY 2024-25 STANDARD PLANS	DITCH BOTTOM INLET TYPES C, D, E, AND H	INDEX	SHEET
11/01/20						425-052	6 of 14

NOTES:
1. Steel Grates are required on inlets with traversable slots and on inlets where bicycle traffic is anticipated.
2. Cast Iron Grates are not permitted on Inlet Type D.

CAST IRON GRATE DETAILS

LAST REVISION	CODE	DESCRIPTION:	FDOT	FY 2024-25 STANDARD PLANS	DITCH BOTTOM INLET TYPES C, D, E, AND H	INDEX	SHEET
11/01/20						425-052	7 of 14

DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

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DATE 01/15/2026
JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

DRAINAGE DETAILS

JOB NO.	PHC-AP-007
DESIGN	OBRIEN
DRAWN	OBRIEN
DATE	01-15-2026
FILE	DD

KENTON ROAD
1ST EXTENSION MODIFICATION

PREPARED FOR: PULTE HOME COMPANY, LLC

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

SHEET 29 OF 34 SHEETS

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GENERAL NOTES:

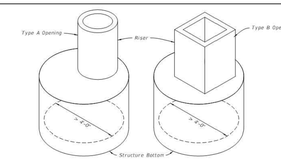
1. Work this Index with Specification 425 and Index 425-001.
2. Type P standard structure bottoms are 4'-0"diameter and smaller (Alt. A) and 3'-0" square (Alt. B). Larger standard structure bottoms are designated Type J. Risers are permitted for all structures.
3. Walls of circular structures (Alt. A) constructed in place may be of brick or reinforced concrete. Construct precast and rectangular structures (Alt. B) with reinforced concrete only.
4. Wall thickness and reinforcement are for either reinforced cast-in-place or precast concrete units except that precast circular units may be furnished with walls in accordance with ASTM C478 (See Table 1).
5. Top and bottom slab thickness and reinforcement are for precast and cast-in-place construction. Use Class II concrete, except when Class IV concrete is shown in the Plans.
6. Alt. A or Alt. B structure bottoms may be used in conjunction with curb inlet tops Types 1, 2, 3, 4, 5, 6, 9, and 10, and any manhole or junction box. Alt. B structure bottoms may be used in conjunction with curb inlet Types 7 & 8, or any ditch bottom inlet.
7. Rectangular structures may be rotated as directed by the Engineer in order to facilitate connections between the structure walls and pipes.
8. Use straight embedment reinforcement in top and bottom slabs ,except when ACI hooks are specifically required.
9. Construct corner fillets as shown for rectangular structures used with circular risers and inlet throats, and when used on skew with rectangular risers, inlets, and inlet throats. Construct fillets in the top slab of the Alt. A structure bottoms when used with the Type B risers. Reinforce each fillet with two #5 bars.
10. Units larger than specified standards may be substituted at the contractor's option when these units will not cause or increase the severity of utility conflicts. Furnish such larger units at no additional cost to the Department. Larger Alt. A units cannot replace Alt. B units without approval of the Engineer. This Note applies to this Index only.

REINFORCEMENT NOTES:

1. Locate wall reinforcement in rectangular structures as shown in the WALL REINFORCEMENT SPLICE DETAILS in Index 425-001.
2. Provide a minimum 2"clear cover for all reinforcement unless otherwise noted and except for 3/8"diameter ASTM C478 units.
3. Additional bars used to restrain hole formers for precast structures with grouted pipe connections may be left flush with the hole surface.
4. Cut or bend reinforcement at pipe openings to maintain cover.
5. Remove exposed ends of reinforcing at precast pipe openings and grouted joints to 1" below the concrete surface and seal with a Type F Epoxy meeting the requirements of Specification 926.
6. Equivalent area smooth or deformed welded wire reinforcement may be substituted in accordance with Index 425-001.

TABLE OF CONTENTS:

Sheet	Description
1	General Notes and Contents
2	Dimensional and Reinforcing Details
3	Tables 1, 2, 3, and 4
4	Tables 5 and 6



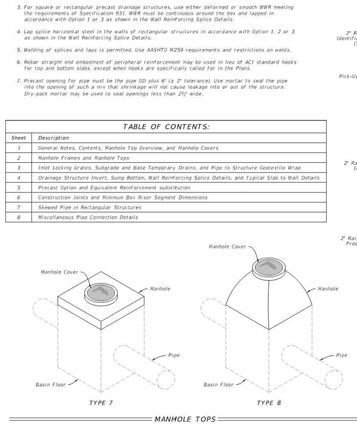
LAST REVISION 11/01/20	DESCRIPTION:	FDOT	FY 2024-25 STANDARD PLANS	STRUCTURE BOTTOMS TYPE J AND P	INDEX 425-010	SHEET 1 of 4

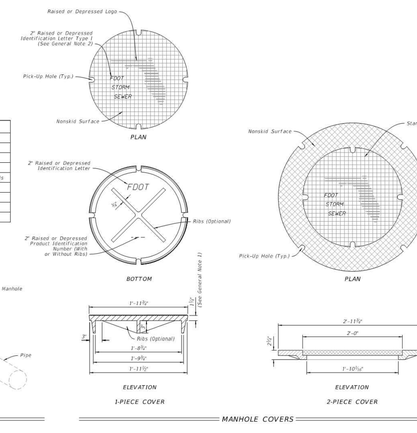
GENERAL NOTES:

1. Use a 3-piece 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.
2. Include "Adjustable" on the cover for Type 1 manhole adjustable frames.
3. For square or rectangular precast drainage structures, use either deformed or smooth WWR meeting the requirements of ASTM Designation 931. WWR must be continuously around the box and lapped in accordance with Option 1 or 3 as shown in the Wall Reinforcing Splice Details.
4. Lap splice horizontal steel in the walls of rectangular structures in accordance with Option 1, 2 or 3 as shown in the Wall Reinforcing Splice Details.
5. Welding of splices and taps is permitted. Use AASHTO M259 requirements and restrictions on welds.
6. Retain straight and embedment of peripheral reinforcement may be used in lieu of ACI standard hooks for top and bottom slabs, except when hooks are specifically called for in the Plans.
7. Precast opening for pipe must be the pipe OD plus 6" (± 2" tolerance). Use mortar to seal the pipe into the opening of such a mix that shrinkage will not cause leakage into or out of the structure. Dry-pack mortar may be used to seal openings less than 2½" wide.

TABLE OF CONTENTS:

Sheet	Description
1	General Notes, Contents, Manhole Top Overview, and Manhole Covers
2	Manhole Frames and Manhole Tops
3	Inlet Locking Grates, Subgrade and Base Temporary Drains, and Pipe to Structure Geotextile Wrap
4	Drainage Structure Invert, Sump Bottom, Wall Reinforcing Splice Details, and Typical Slab to Wall Details
5	Precast Option and Equivalent Reinforcement substitution
6	Construction Joints and Minimum Box Riser Segment Dimensions
7	Skewed Pipe in Rectangular Structures
8	Miscellaneous Pipe Connection Details



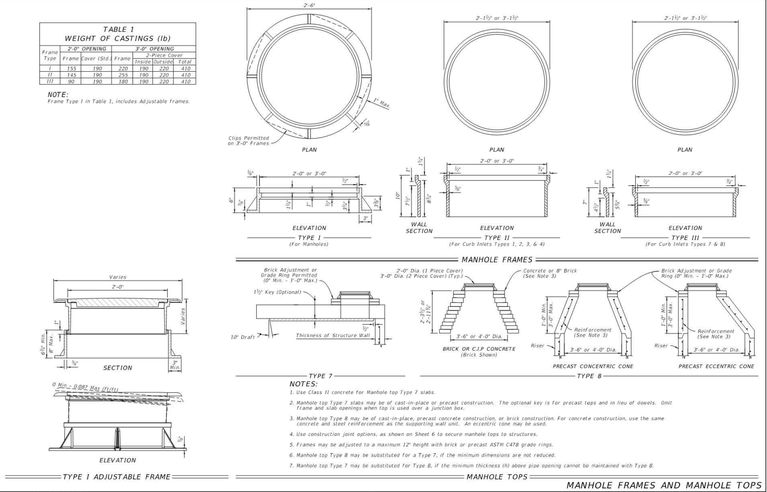


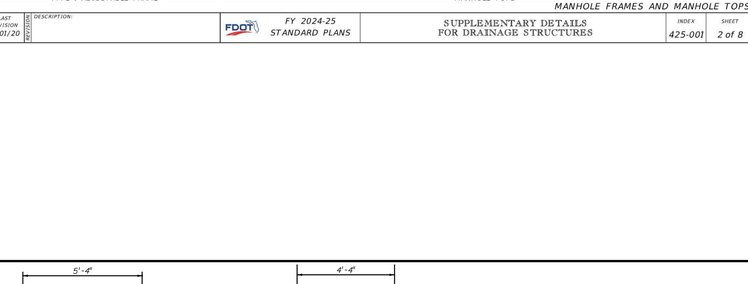
LAST REVISION 11/01/23	DESCRIPTION:	FDOT	FY 2024-25 STANDARD PLANS	SUPPLEMENTARY DETAILS FOR DRAINAGE STRUCTURES	INDEX 425-001	SHEET 1 of 8

TABLE 1
WEIGHT OF CASTINGS (lb)

Frame Type	2'-0" OPENING Frame	Cover	Total	3'-0" OPENING 2-Piece Cover Inside	Outside	Total
I	155	190	220	190	220	410
II	155	190	220	190	220	410
III	90	190	185	190	220	410

NOTE:
Frame Type 1 in Table 1, includes Adjustable frames.

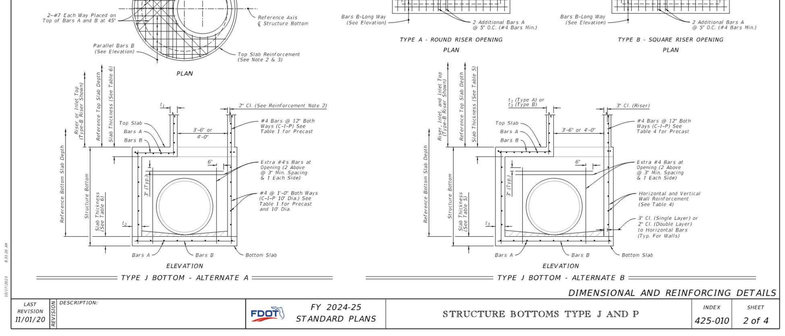




NOTES:
1. Use Class II concrete for Manhole top Type 7 slabs.
2. Manhole top Type 7 slabs may be of cast-in-place or precast construction. The optional key is for precast tops and in lieu of dowels. Omit frame and slab openings when top is used over a junction box.
3. Manhole top Type 8 may be of cast-in-place, precast concrete construction, or brick construction. For concrete construction, use the same concrete and steel reinforcement as the supporting wall unit. An eccentric cone may be used.
4. Use construction joint options, as shown on Sheet 6 to secure manhole tops to structures.
5. Frames may be adjusted to a maximum 12" height with brick or precast ASTM C478 grade rings.
6. Manhole top Type 8 may be substituted for a Type 7, if the minimum dimensions are not reduced.
7. Manhole top Type 7 may be substituted for Type 8, if the minimum thickness (h) above pipe opening cannot be maintained with Type 8.

MANHOLE FRAMES AND MANHOLE TOPS

LAST REVISION 11/01/20	DESCRIPTION:	FDOT	FY 2024-25 STANDARD PLANS	SUPPLEMENTARY DETAILS FOR DRAINAGE STRUCTURES	INDEX 425-001	SHEET 2 of 8

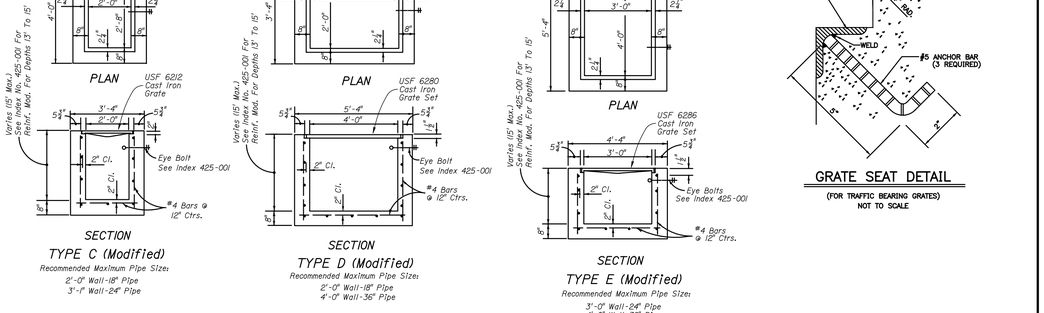


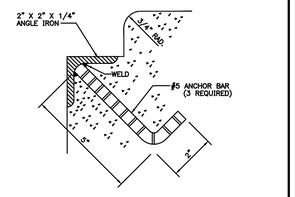
ALTERNATE A NOTES:

1. Rotate #4 Bars as required to maintain cover.
2. Construct the top or riser of the structure according the top slab to the "Special Top Slab" details, when the inside diameter of a round structure is not more than 1'-0" larger than the opening in the riser or top slab.
3. Alternate A slab reinforcing not applicable for Type A, B, C, D & E Ditch Bottom Inlets or Type S & V Gutter Inlets, See Indexes 425-040, 425-041, 425-050, 425-051, and 425-052.

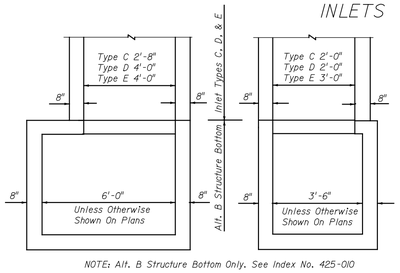
DIMENSIONAL AND REINFORCING DETAILS

LAST REVISION 11/01/20	DESCRIPTION:	FDOT	FY 2024-25 STANDARD PLANS	STRUCTURE BOTTOMS TYPE J AND P	INDEX 425-010	SHEET 2 of 4





INLETS



NOTE: Alt. B Structure Bottom Only. See Index No. 425-010

STRUCTURE BOTTOM FOR INLETS TYPE C, D & E

GENERAL NOTES

1. Recommended maximum pipe sizes shown are for concrete pipe. Pipe sizes larger than those recommended must be checked for fit.
2. All exposed corners and edges of concrete are to be chamfered ¾".
3. All cast grates shall be rated for traffic loading (H-20) and seated on all four (4) sides. Contractor shall submit shop drawings for approval by Engineer of Record prior to ordering materials.
4. Grate seat shall be included in cost of inlet.

GRATE TOP INLETS
TYPES C, D & E

DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

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DATE:01/15/2026
JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

DRAINAGE DETAILS

JOB NO. PHC-AP-007	KENTON ROAD 1ST EXTENSION MODIFICATION
DESIGN OBRIEN	
DRAWN OBRIEN	PREPARED FOR: PULTE HOME COMPANY, LLC
DATE 01-15-2026	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = -0.84 Feet
FILE DD	SHEET 30 OF 34 SHEETS

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GENERAL NOTES:

1. Provide flared end sections meeting the requirements of ASTM C76 with the exception that dimensions and reinforcement meet the criteria in the table on sheet 2. Circumferential reinforcement may consist of either one cage or two cages of steel. Use concrete compressive strength of 4000 psi.

2. Connections between the flared end section and the pipe culvert may be any of the following types unless otherwise shown on the plans.

   a. Joints meeting the requirements of Section 449 of the Standard Specifications (O-Ring Gasket). Flared end section joint dimensions and tolerances shall be identical or compatible to those used in the pipe culvert joint. When pipe culvert and flared end section manufacturers are different, the manufacturer of the flared end sections must certify the compatibility of joint designs.

   b. Joints sealed with preformed plastic gaskets. Use gaskets that meet the requirements Specification 942-2 of the Standard Specifications and the minimum sizes for gaskets as specified for equivalent sizes of elliptical pipe.

   c. Reinforced concrete jackets, as detailed on sheet 2. When non-coated corrugated metal pipe is called for in the Plans, use bituminous coated pipe in the jacketed area as specified on Index 430-001. Construct concrete jacket as specified in Index 430-001.

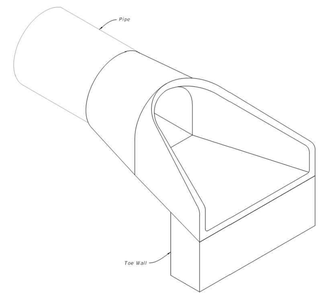
3. Cast Toe Walls in place using Class II Concrete.

4. On skewed pipe culverts place the flared end sections in line with the pipe culvert. Warp the side slopes as required to fit the flared end sections.

5. Quantities shown are for estimating purposes only.

TABLE OF CONTENTS:

Sheet	Description
1	General Notes and Contents
2	Straight Flare, Optional Shape Details, and Reinforced Concrete Jacket Detail

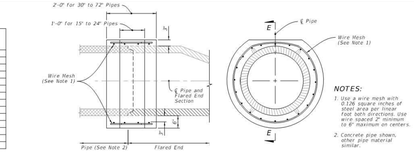


FLARED END SECTION

Pipe Dia.	T	Reinf. Kg./m Per Foot	Bell or Spigot	A	B	C	D	E	P	R1	R2	FLAT	h	Toe Wall Class II Conc. (CY.)
12"	2"	0.07	1½"	4"	2'-2"	4'-0⅞"	2'-0"	1'-8⅝"	10½°	9"	3½°	12"		.06
15"	2½"	0.07	2"	6"	2'-3"	5'-1⅛"	2'-6"	2'-1¼"	12½°	11"	3½°	12"		.07
18"	2½"	0.07	2½"	9"	2'-3"	5'-10"	3'-0"	2'-6"	15½°	12"	4°	15"		.11
21"	2½"	0.07	2½"	9"	2'-11½"	6'-3"	3'-6"	3'-0"	17½°	13"	4°	15"		.12
24"	3"	0.07	2½"	9½"	3'-1½"	7'-0"	4'-0"	3'-3½"	18½°	14"	4½°	18"		.17
27"	3½"	0.148	2½"	10½"	3'-4⅜"	7'-11½"	4'-6"	3'-7½"	20°	18⅝"	14½°	4½°	18"	.19
30"	3½"	0.148	3"	1'-0"	4'-4⅜"	9'-1¾"	5'-0"	3'-7"	18½°	15"	5°	21"		.24
36"	4"	0.148	3½"	1'-3"	5'-1½"	10'-5½"	6'-0"	4'-7½"	24½°	20"	5½°	21"		.29
42"	4½"	0.148	3½"	1'-6"	5'-3"	7'-11"	8'-2"	6'-6"	53½°	27½°	22°	5½°	24"	.36
48"	5"	0.148	4½"	2'-0"	6'-0"	9'-1"	9'-2"	7'-6"	56½°	28½°	22°	5½°	24"	.39
54"	5½"	0.174	4½"	2'-3"	5'-3"	7'-11"	8'-4"	7'-0"	65½°	33½°	24°	6½°	24"	.42
60"	6"	0.174	5"	2'-6"	5'-0"	7'-6"	8'-4"	7'-3½"	38½°	34°	24°	6½°	24"	.44
66"	6½"	0.174	5½"	2'-9"	6'-6"	1'-9"	8'-2"	8'-6"	72°	36½°	24°	7½°	24"	.47
72"	7"	0.174	6"	3'-0"	6'-6"	1'-9"	8'-2"	9'-0"	77½°	38½°	24°	7½°	24"	.50

2'-0" for 30" to 72" Pipes

1'-0" for 15" to 24" Pipes



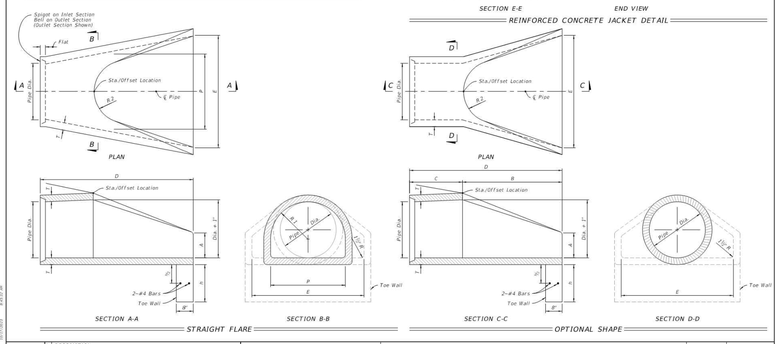
SECTION E-E

END VIEW

NOTES:

1. Use a wire mesh with 0.126 square inches of steel area per linear foot both directions. Use wire spaced 2" minimum to 6" maximum on centers.
2. Concrete pipe shown, other pipe material similar.

REINFORCED CONCRETE JACKET DETAIL



GENERAL NOTES:

1. Unless otherwise designated in the plans, concrete pipe mitered end sections may be used with any type of cross drain pipe; corrugated steel pipe mitered end sections may be used with any type of cross drain pipe except aluminum pipe; and, corrugated aluminum mitered end sections may be used with any type of cross drain pipe except steel pipe. When bituminous coated metal pipe is specified for cross drain pipe, construct the mitered end sections with like pipe or concrete pipe. When the mitered end section pipe is dissimilar to the cross drain pipe, construct a concrete jacket in accordance with Index 430-001.

2. Use either corrugated metal or concrete mitered end sections for corrugated polyethylene pipe (HDPE), polyvinyl-chloride pipe (PVC), steel reinforced polyethylene pipe (SRPE), and polypropylene pipe (PP). When used in conjunction with corrugated mitered end sections, make connection using either a formed metal band specifically designated to join HDPE, PVC, SRPE, or PP pipe, with metal pipe. When used in conjunction with a concrete mitered end sections, construct concrete jacket in accordance with Index 430-001.

3. Class IV concrete cast-in-place reinforced slabs are required for all sizes of cross drain pipes. Construct slabs at 5½" thick, unless 3" thickness is called for in the Plans.

4. Select lengths of concrete pipe that avoid excessive connections in the assembly of the mitered end section.

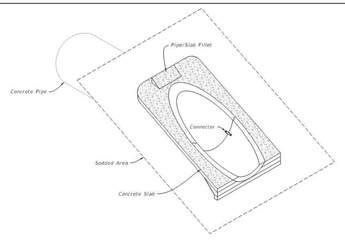
5. Repair corrugated metal pipe galvanizing that is damaged during beveling and perforating.

6. When existing multiple cross drain pipes are spaced other than the dimensions shown in this Index, have nonparallel axes, or non-uniform sections, either construct the mitered end sections separately as single pipe or collectively as multiple pipe end sections as directed by the Engineer.

7. Saddle Slope:
   1:4 Miter – Slope to ℄ of pipe for round pipes less than or equal to 18" diameter and 1:1 for round pipes greater than or equal to 24" diameter.
   Slope to the major axis for elliptical pipes 24"x38" or smaller and 1:2 for pipes 29"x45" or larger.
   Slope to the span line for pipe arch 28"x20" or smaller and 1:2 for pipe arch 35"x24" or larger.

   1:2 Miter – Slope to ℄ of pipe for round pipes less than or equal to 18"diameter and 1:2 for round pipes greater than or equal to 24" diameter.
   Slope to the major axis for elliptical pipes 29"x45" or smaller and 1:1 for pipes 34"x53" or larger.
   Slope 1:1 for all pipe arch sizes.

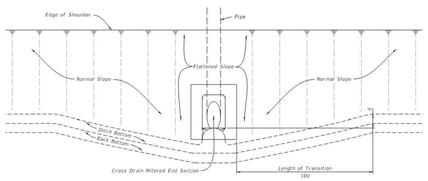
8. Quantities shown are for estimating purposes only.



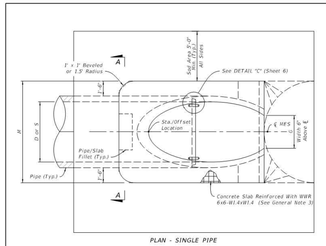
CROSS DRAIN MITERED END SECTION
(Concrete Pipe Shown, Corrugated Metal Pipe Similar)

TABLE OF CONTENTS:

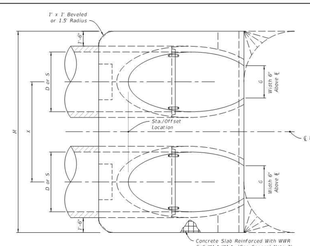
Sheet	Description
1	General Notes and Contents
2	Single and Multiple Concrete Pipe
3	Concrete Pipe Dimensions and Quantities
4	Single and Multiple Corrugated Metal Pipe
5	Corrugated Metal Pipe Dimensions and Quantities
6	Concrete Pipe Connections and Corrugated Metal Pipe (CMP) Anchor Detail



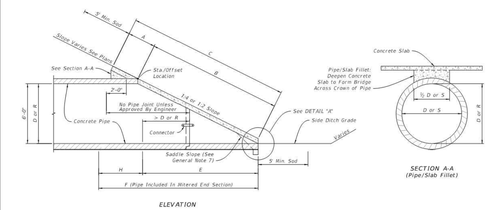
SLOPE AND DITCH TRANSITIONS



PLAN - SINGLE PIPE



PLAN - MULTIPLE PIPE



ELEVATION

DETAIL "A"

ROUND CONCRETE PIPE
(Elliptical Pipe Similar)

NOTE: See Table 1 on Sheet 3 for Dimensions and Quantities.

TABLE 1
SINGLE AND MULTIPLE CONCRETE PIPE DIMENSIONS AND QUANTITIES

	Dia. D	Rise R	Span S	X	A	B	C	E	F	G	H	35° CONC. SLAB (CY.) (See General Note 2) Single Pipe	35° CONC. SLAB (CY.) (See General Note 2) Double Pipe	35° CONC. SLAB (CY.) (See General Note 2) Triple Pipe	35° CONC. SLAB (CY.) (See General Note 2) Quad. Pipe	N	3" CONC. SLAB (CY.) (See General Note 2) Single Pipe	3" CONC. SLAB (CY.) (See General Note 2) Double Pipe	3" CONC. SLAB (CY.) (See General Note 2) Triple Pipe	3" CONC. SLAB (CY.) (See General Note 2) Quad. Pipe	SODDING (SY) Single Pipe	SODDING (SY) Double Pipe	SODDING (SY) Triple Pipe	SODDING (SY) Quad. Pipe
Round Concrete Pipe 1:2 Slope	15"	—	—	2'-2"	1'-10"	3'-10"	2'-0"	3"	1'-2"	2'-3"	4.4'	10.8K	20.8K	30.8K	40.9K	1.59	3.74	5.59	7.45	9.34	2.48	3.68	4.90	6.1	31	52	73	94
	18"	—	—	2'-7"	2'-2"	4'-6"	2'-3"	3"	1'-4"	2'-6"	4.4'	11.4K	21.9K	32.3K	42.8K	1.59	3.74	5.59	7.45	9.34	2.64	3.84	5.06	6.3	33	54	75	96
	24"	—	—	3'-5"	2'-10"	5'-10"	3'-0"	3"	1'-7"	3'-0"	4.4'	12.0K	23.1K	34.1K	45.2K	1.59	3.74	5.59	7.45	9.34	2.80	4.00	5.22	6.5	35	56	77	98
	30"	—	—	4'-3"	3'-5"	7'-2"	3'-9"	3"	1'-11"	3'-8"	4.4'	12.6K	24.3K	35.9K	47.6K	1.59	3.74	5.59	7.45	9.34	2.96	4.16	5.38	6.7	37	58	79	100
	36"	—	—	5'-0"	4'-0"	8'-6"	4'-6"	3"	2'-3"	4'-3"	4.4'	13.2K	25.5K	37.7K	49.9K	1.59	3.74	5.59	7.45	9.34	3.12	4.32	5.54	6.9	39	60	81	102
	42"	—	—	5'-10"	4'-8"	9'-11"	5'-3"	3"	2'-7"	4'-11"	4.4'	13.8K	26.7K	39.5K	52.3K	1.59	3.74	5.59	7.45	9.34	3.28	4.48	5.70	7.1	41	62	83	104
	48"	—	—	6'-7"	5'-3"	11'-3"	6'-0"	3"	2'-11"	5'-7"	4.4'	14.4K	27.9K	41.3K	54.7K	1.59	3.74	5.59	7.45	9.34	3.44	4.64	5.86	7.3	43	64	85	106
	54"	—	—	7'-3"	5'-10"	12'-7"	6'-9"	3"	3'-3"	6'-2"	4.4'	15.0K	29.1K	43.1K	57.1K	1.59	3.74	5.59	7.45	9.34	3.60	4.80	6.02	7.5	45	66	87	108
	60"	—	—	8'-0"	6'-6"	14'-0"	7'-6"	3"	3'-7"	6'-10"	4.4'	15.6K	30.3K	44.9K	59.5K	1.59	3.74	5.59	7.45	9.34	3.76	4.96	6.18	7.7	47	68	89	110
	66"	—	—	8'-9"	7'-2"	15'-5"	8'-3"	3"	3'-11"	7'-6"	4.4'	16.2K	31.5K	46.7K	61.9K	1.59	3.74	5.59	7.45	9.34	3.92	5.12	6.34	7.9	49	70	91	112
	72"	—	—	9'-6"	7'-9"	16'-9"	9'-0"	3"	4'-3"	8'-2"	4.4'	16.8K	32.7K	48.5K	64.3K	1.59	3.74	5.59	7.45	9.34	4.08	5.28	6.50	8.1	51	72	93	114
Elliptical Concrete Pipe 1:2 Slope	14"	23"	19"	2'-3"	2'-0"	3'-10"	2'-0"	3"	1'-2"	2'-3"	4.0'	9.0K	17.5K	26.0K	34.5K	1.59	3.74	5.59	7.45	9.34	2.48	3.68	4.90	6.1	31	52	73	94
	19"	30"	24"	2'-11"	2'-7"	4'-11"	2'-6"	3"	1'-6"	2'-9"	4.0'	9.6K	18.7K	27.8K	36.9K	1.59	3.74	5.59	7.45	9.34	2.64	3.84	5.06	6.3	33	54	75	96
	24"	38"	29"	3'-7"	3'-2"	6'-0"	3'-0"	3"	1'-10"	3'-4"	4.0'	10.2K	19.9K	29.6K	39.3K	1.59	3.74	5.59	7.45	9.34	2.80	4.00	5.22	6.5	35	56	77	98
	29"	45"	34"	4'-3"	3'-9"	7'-1"	3'-6"	3"	2'-2"	3'-11"	4.0'	10.8K	21.1K	31.4K	41.7K	1.59	3.74	5.59	7.45	9.34	2.96	4.16	5.38	6.7	37	58	79	100
	34"	53"	38"	4'-11"	4'-4"	8'-3"	4'-0"	3"	2'-6"	4'-6"	4.0'	11.4K	22.3K	33.2K	44.1K	1.59	3.74	5.59	7.45	9.34	3.12	4.32	5.54	6.9	39	60	81	102
	38"	60"	43"	5'-6"	4'-11"	9'-4"	4'-6"	3"	2'-10"	5'-1"	4.0'	12.0K	23.5K	35.0K	46.5K	1.59	3.74	5.59	7.45	9.34	3.28	4.48	5.70	7.1	41	62	83	104
	43"	68"	48"	6'-2"	5'-6"	10'-6"	5'-0"	3"	3'-2"	5'-8"	4.0'	12.6K	24.7K	36.8K	48.9K	1.59	3.74	5.59	7.45	9.34	3.44	4.64	5.86	7.3	43	64	85	106
	48"	76"	53"	6'-10"	6'-1"	11'-8"	5'-6"	3"	3'-6"	6'-3"	4.0'	13.2K	25.9K	38.7K	51.5K	1.59	3.74	5.59	7.45	9.34	3.60	4.80	6.02	7.5	45	66	87	108
	53"	83"	58"	7'-5"	6'-7"	12'-9"	6'-0"	3"	3'-10"	6'-10"	4.0'	13.8K	27.1K	40.5K	53.9K	1.59	3.74	5.59	7.45	9.34	3.76	4.96	6.18	7.7	47	68	89	110
	57"	91"	62"	8'-1"	7'-2"	13'-11"	6'-6"	3"	4'-2"	7'-5"	4.0'	14.4K	28.3K	42.3K	56.3K	1.59	3.74	5.59	7.45	9.34	3.92	5.12	6.34	7.9	49	70	91	112
	62"	98"	67"	8'-8"	7'-8"	14'-11"	7'-0"	3"	4'-6"	8'-0"	4.0'	15.0K	29.5K	44.1K	58.7K	1.59	3.74	5.59	7.45	9.34	4.08	5.28	6.50	8.1	51	72	93	114

B: ◇ 6.42" ○ 6.25" Dimensions permitted to allow use of 8' standard pipe lengths.

E: ◇ 10.40' ○ 10.10' Dimensions permitted to allow use of 12' standard pipe lengths.

CONCRETE PIPE DIMENSIONS AND QUANTITIES

DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

Clearview LAND DESIGN, P.L.
Registered Business Number: RY28858
3010 W Azeele St., Suite 150, Tampa, Florida 33609
Office: 813-223-3919 Fax: 813-223-3975

This item has been digitally signed and sealed by JORDAN A. SCHRADER, P.E. on the date adjacent to the seal. Signature must be verified on any electronic copies.

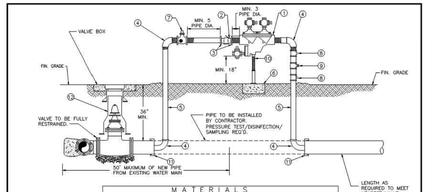
DATE: 01/15/2026

JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

DRAINAGE DETAILS

JOB NO. PHC-AP-007	KENTON ROAD 1ST EXTENSION MODIFICATION
DESIGN OBRIEN	
DRAWN OBRIEN	PREPARED FOR: PULTE HOME COMPANY, LLC
DATE 01-15-2026	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = -0.84 Feet
FILE DD	SHEET 31 OF 34 SHEETS

P:\APRIL\KENTON ROAD MODIFICATION\DRAWING\CONDOCS\DD.DWG-31 DRAINAGE DETAILS 2026/01/15 2:27 PM CLD ENGINEER



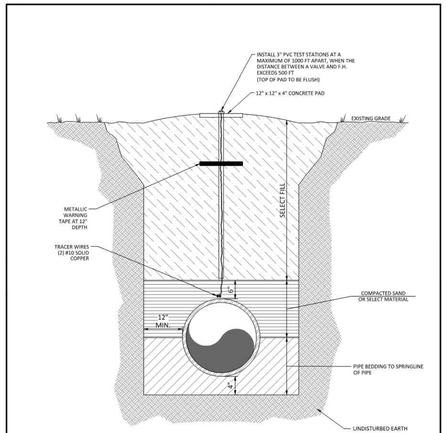
M A T E R I A L S

ITEM	QUANT.	DESCRIPTION
1	1	2" BACKFLOW PREVENTER ASSEMBLY, REDUCED PRESSURE ZONE
2	1	2" METER FURNISHED BY PASCO COUNTY UTILITIES
3	2	BRASS–METER FLANGES OR ADAPTORS
4	2	2" ELBOWS – BRASS OR S.S. 90° THREADED *
5	2	2" RISER – BRASS OR S.S. *
6	*	CONCRETE SLAB
7	1	2" VALVE – LOCK–WING OVAL FLANGED BALL VALVE (BRASS OR SS)
8	2	2" TEE/ VALVES – BRASS OR S.S. *
9	1	2" GATE VALVE – BRASS OR S.S. *
10	1	PIPE STAND (SUPPORT)
11	2	M.J. CAP WITH 2" TAP, 90°, THREADED, BEND
12	2	GATE VALVE AND BOX

* BECAUSE ASSEMBLY IS TEMPORARY, PASCO COUNTY WILL ALLOW GALVANIZED FITTINGS AS AN ALTERNATIVE.

NOTE:
- CONTRACTOR/CUSTOMER SHALL APPLY AT PASCO COUNTY UTILITIES CUSTOMER SERVICE (727–847–8131) FOR TEMPORARY WATER SERVICE AT LEAST THREE DAYS PRIOR TO REQUIRED SERVICE DATE.
- THE METER WILL BE FURNISHED, INSTALLED AND INITIAL READING TAKEN BY PASCO COUNTY UTILITIES. ALL FITTINGS, PIPING, VALVES AND MATERIALS INCLUDING THE PASCO COUNTY APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR/CUSTOMER.
- CONTRACTOR/CUSTOMER FURNISHED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE MUST BE INSTALLED BEFORE THE METER IS INSTALLED BY PASCO COUNTY UTILITIES. THE APPROVED BACKFLOW PREVENTION DEVICE SHALL BE TESTED AND CERTIFIED BY CONTRACTOR. UTILITIES CERTIFIED BACKFLOW PREVENTION TECHNICIAN AT TIME OF METER INSTALLATION.
- CONTRACTOR/CUSTOMER SHALL PROTECT THE JUMPER/METER ASSEMBLY FROM DAMAGE.
- CONTRACTOR/CUSTOMER IS RESPONSIBLE FOR BACTERIOLOGICAL TESTING AFTER CONNECTION OF TEMPORARY WATER SERVICE.
- TEMPORARY CONSTRUCTION JUMPER/METER ASSEMBLY SHALL NOT BE REMOVED UNTIL SYSTEM IS ACCEPTED BY PASCO COUNTY UTILITIES.
- WHEN THE NEW SYSTEM IS ACCEPTED AND THE FINAL METER READING TAKEN BY PASCO COUNTY, THE TEMPORARY CONSTRUCTION JUMPER/METER ASSEMBLY MUST BE COMPLETELY REMOVED FROM M.J. CAP TO M.J. CAP AND A NEW WATER MAIN IS TO BE CHLORINATED AND INSTALLED COMPLETING THE FINAL CONNECTION.
- BY APPLYING FOR SERVICE, CONTRACTOR/CUSTOMER AGREES TO TAKE WATER SERVICE FROM PASCO COUNTY UTILITIES IN ACCORDANCE WITH THE APPROPRIATE RATE SCHEDULE AND IN ACCORDANCE WITH PASCO COUNTY UTILITIES RULES AND REGULATION.
- IF STAINLESS STEEL IS USED, CONTRACTOR IS RESPONSIBLE TO PROVIDE TRANSITION FITTINGS AND/OR DIELECTRIC UNIONS AS APPROPRIATE WHERE CHANGING FROM BRASS TO S.S.

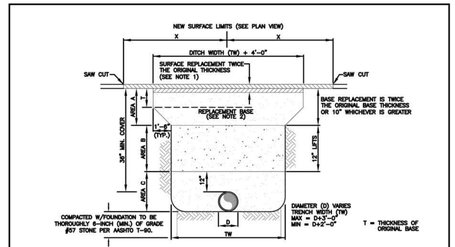
CREATED FEB 2003 REVISED JAN 2014 MAY 2016 JUNE 2019	TEMPORARY CONSTRUCTION WATER SERVICE (JUMPER METER)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
	PASCO COUNTY UTILITIES	DETAIL W1



NOTES:
- COMPACTION TO FINISHED GRADE IS TO BE 95% MOD. PROCTOR.
- SELECT FILL TO BE PLACED AND COMPACTED IN 12" LAYERS. ROLLING EQUIPMENT SHALL NOT BE USED FOR COMPACTION UNTIL A MINIMUM OF 6" OF COMPACTED FILL HAS BEEN PLACED AND COMPACTED OVER THE PIPE. 18" OF FILL SHALL BE PLACED BEFORE A HYDROHAMMER MAY BE USED FOR COMPACTION.

NOTE:
ANY WIRE SPLICING SHALL USE CAMPBELL HEAT SHRINK SPLICE KIT, LS64 & OR APPROVED EQUAL

CREATED JUNE 2017 REVISED MAY 2021	PIPE LAYING CONDITIONS UNPAVED AREAS	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
	PASCO COUNTY UTILITIES	DETAIL G2



NOTES

PAVEMENT OPEN CUTS, EXCAVATION AND RESTORATION

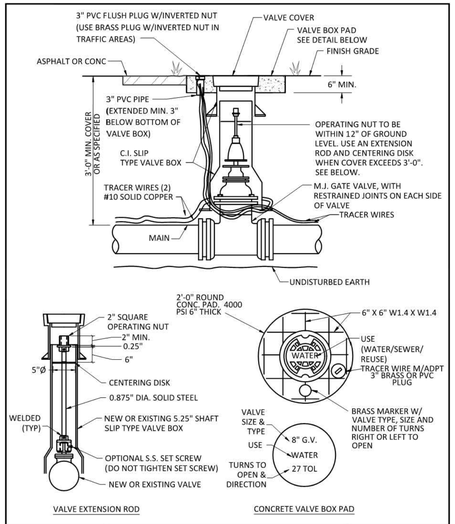
1. MILLING AND RESURFACING LIMITS ARE AS FOLLOWS:

ROADWAY TYPE:	DIMENSION "X"
RESIDENTIAL	50 FT.
ARTERIAL OR COLLECTOR (MINIMUM ONE INCH)	50 FT.

2. REPLACEMENT OF ASPHALT TO BE TWICE THE ORIGINAL PAVEMENT THICKNESS OR PLACED AT A MINIMUM OF 2-INCHES AS APPROVED ON THE PLANS. ASPHALTIC CONCRETE TO BE SUPER PAVE (SP) AND PLACED WITHIN LIFTS ADHERING TO THE FDOT FLEXIBLE PAVEMENT MANUAL (LATEST EDITION).
3. BASE MATERIAL TO BE NEW AND FROM AN APPROVED FDOT SOURCE WITH MATERIAL CERTIFICATION PER PASCO COUNTY SPECIFICATION NO. 200.
4. EXCAVATION OF EXISTING BASE MATERIALS TO BE DISPOSED OF OFFSITE BY THE CONTRACTOR AND NOT REUSED FOR THE EXCAVATED AREA.
5. CONTRACTOR TO BACKFILL IN ACCORDANCE WITH THE FOLLOWING:
   a. AREA A – BACKFILL EXCAVATED AREA USING LIME ROCK (LBR 100) OR CRUSHED CONCRETE (LBR 150) PLACED IN MAXIMUM 6-INCH LIFTS.
      EACH LIFT TO BE COMPACTED TO 100% OF MAXIMUM DENSITY AS DETERMINED BY FM 1-T099.
   b. AREA B – BACKFILL EXCAVATED AREA IN MAXIMUM 12 INCH LIFTS.
      EACH LIFT TO BE COMPACTED TO 100% DRY DENSITY PER FM 1-T180.
   c. AREA C – BACKFILL EXCAVATED AREA WITH 6-INCH MAXIMUM LIFTS. EACH LIFT TO BE COMPACTED TO 100% DRY DENSITY PER FM 1-T180.
6. IN LIEU OF COMPACTED BASE MATERIAL THE CONTRACTOR CAN UTILIZE LEVEL-E ASPHALTIC CONCRETE (SP 12.5) PLACED AT 2-INCH MAXIMUM LIFTS. SP12.5 ASPHALTIC CONCRETE TO MATCH THE THICKNESS OF THE EXISTING BASE AND MUST NOT BE PLACED BELOW SPRING LINE OF THE PIPE.
7. TESTING AND COMPACTION RATES MUST BE SUBMITTED TO PASCO COUNTY ENGINEERING INSPECTION VERIFYING OPEN CUT RESTORATION IS IN ACCORDANCE WITH FDOT AND COUNTY SPECIFICATIONS.

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.

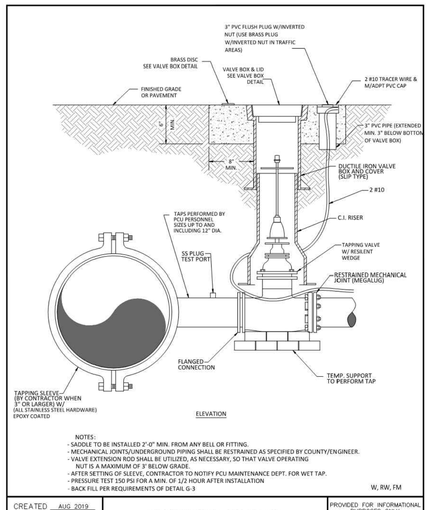
CREATED APR 2021 REVISED MAY 2021	PIPE LAYING CONDITIONS EXISTING PAVED AREAS	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
	PASCO COUNTY UTILITIES	DETAIL G3



VALVE EXTENSION ROD

CONCRETE VALVE BOX PAD

CREATED DEC 2020 REVISED MAY 2021	VALVE BOX SLIP TYPE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
	PASCO COUNTY UTILITIES	DETAIL G5

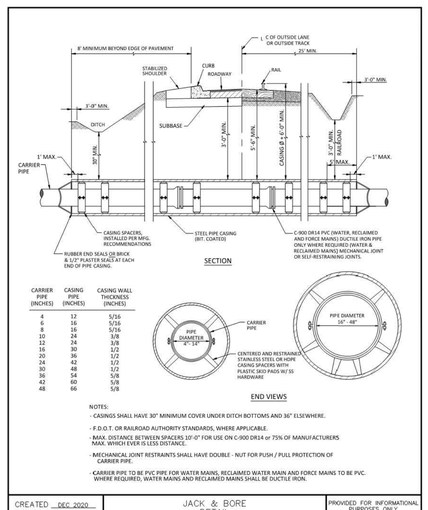


ELEVATION

NOTES:
- SADDLE TO BE INSTALLED 2'-0" MIN. FROM ANY BELL OR FITTING.
- MECHANICAL JOINTS/UNDERGROUND PIPING SHALL BE RESTRAINED AS SPECIFIED BY COUNTY/ENGINEER.
- VALVE EXTENSION ROD SHALL BE UTILIZED, AS NECESSARY, SO THAT VALVE OPERATING NUT IS A MAXIMUM OF 3' BELOW GRADE.
- AFTER SETTING OF SLEEVE, CONTRACTOR TO NOTIFY PCU MAINTENANCE DEPT. FOR WET TAP.
- PRESSURE TEST 150 PSI FOR A MIN. OF 1/2 HOUR AFTER INSTALLATION
- BACK FILL PER REQUIREMENTS OF DETAIL G-3

W, RW, FM

CREATED AUG 2019 REVISED MAY 2021	TAPPING VALVE AND SLEEVE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
	PASCO COUNTY UTILITIES	DETAIL G6



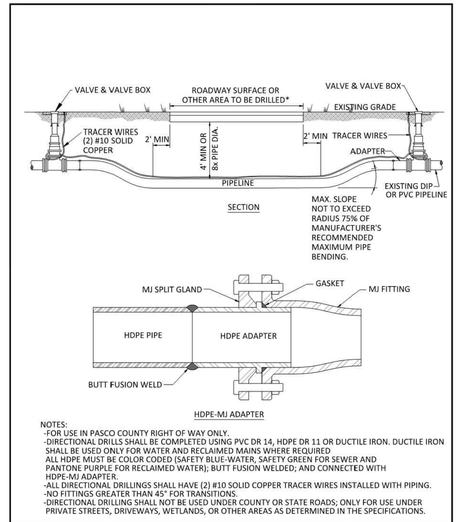
SECTION

CARRIER PIPE (INCHES)	CASING PIPE (INCHES)	CASING WALL THICKNESS (INCHES)
4	12	5/16
6	16	5/16
8	16	5/16
12	24	3/8
16	30	3/8
20	36	1/2
24	42	1/2
30	48	1/2
36	54	5/8
42	60	5/8
48	66	5/8

END VIEWS

NOTES:
- CASINGS SHALL HAVE 30" MINIMUM COVER UNDER DITCH BOTTOMS AND 36" ELSEWHERE.
- F.D.O.T. OR RAILROAD AUTHORITY STANDARDS, WHERE APPLICABLE.
- MAX. DISTANCE BETWEEN SPACERS 10'-0" FOR USE ON C-900 DR14 or 75% OF MANUFACTURERS MAX. WHICH EVER IS LESS DISTANCE.
- MECHANICAL JOINT RESTRAINTS SHALL HAVE DOUBLE - NUT FOR PUSH / PULL PROTECTION OF CARRIER PIPE.
- CARRIER PIPE TO BE PVC PIPE FOR WATER MAINS, RECLAIMED WATER MAIN AND FORCE MAINS TO BE PVC. WHERE REQUIRED, WATER MAINS AND RECLAIMED MAINS SHALL BE DUCTILE IRON.

CREATED DEC 2020 REVISED MAY 2021	JACK & BORE DETAIL	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
	PASCO COUNTY UTILITIES	DETAIL G7



SECTION

MAX. SLOPE NOT TO EXCEED RADIUS 75% OF MANUFACTURER'S RECOMMENDED MAXIMUM PIPE BENDING.

HDPE-MJ ADAPTER

NOTES:
-FOR USE IN PASCO COUNTY RIGHT OF WAY ONLY.
-DIRECTIONAL DRILLS SHALL BE COMPLETED USING PVC DR 14, HDPE DR 11 OR DUCTILE IRON. DUCTILE IRON SHALL BE USED ONLY FOR WATER AND RECLAIMED MAINS WHERE REQUIRED
ALL HDPE MUST BE COLOR CODED (SAFETY BLUE-WATER, SAFETY GREEN FOR SEWER AND PANTONE PURPLE FOR RECLAIMED WATER); BUTT FUSION WELDED; AND CONNECTED WITH HDPE-MJ ADAPTER.
-ALL DIRECTIONAL DRILLINGS SHALL HAVE (2) #10 SOLID COPPER TRACER WIRES INSTALLED WITH PIPING.
-NO FITTINGS GREATER THAN 45° FOR TRANSITIONS.
-DIRECTIONAL DRILLING SHALL NOT BE USED UNDER COUNTY OR STATE ROADS; ONLY FOR USE UNDER PRIVATE STREETS, DRIVEWAYS, WETLANDS, OR OTHER AREAS AS DETERMINED IN THE SPECIFICATIONS.

CREATED DEC 2020 REVISED MAY 2021	DIRECTIONAL DRILLING	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
	PASCO COUNTY UTILITIES	DETAIL G8

DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS
REVISIONS		

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

Clearview LAND DESIGN, P.L.
Registered Business Number: RY28858
3010 W Azeele St., Suite 150, Tampa, Florida 33609
Office: 813-223-3919 Fax: 813-223-3975

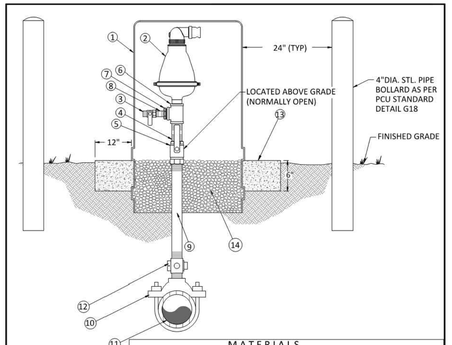
This item has been digitally signed and sealed by JORDAN A. SCHRADER, P.E. on the date adjacent to the seal. Signature must be verified on any electronic copies.

DATE01/15/2026
JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

UTILITY DETAILS

JOB NO. PHC-AP-007	KENTON ROAD 1ST EXTENSION MODIFICATION
DESIGN OBRIEN	
DRAWN OBRIEN	PREPARED FOR: PULTE HOME COMPANY, LLC
DATE 01-15-2026	Elevations based on North American Vertical Datum 1988 (NAVD 88) Conversion from NAVD 88 to NGVD 29 = -0.84 Feet
FILE WSD	**SHEET 32 OF 34 SHEETS**

P:\APRIL\KENTON ROAD MODIFICATION\DRAWING\CONDOC\WSD.DWG–32 UTILITY DETAILS 2026/01/15 2:27 PM CLD ENGINEER



MATERIALS

ITEM	QUANT.	DESCRIPTION
1	1	VENTED ENCLOSURE, WATER PLUS CORP. MODEL H-30, BLUE (WATER), GREEN (FORCEMAIN) AND PURPLE (RE-USE)
2	1	AIR RELEASE VALVE 2" ARI SEE MODEL # LIST THIS SHEET
3	1	1" BALL VALVE 316 S.S.
4	1	2"X2" CLOSE NIPPLE BREAK AWAY SCH 80
5	1	2" CLOSED BALL VALVE, S.S. ABOVE GRADE
6	1	2" TEE, S.S.
7	1	2" X 1" REDUCER, S.S.
8	1	1" SHORT NIPPLE, S.S.
9	1	2" PIPE, S.S.
10	1	2" DOUBLE STRAP TAPPING SADDLE, S.S.
11	1	4" & LARGER PIPE, D.I. (DR-18)
12	1	2" CORPORATION BRASS
13	1	CONCRETE SLAB AROUND ENCLOSURE
14	*	#57 WHITE ROCK

ARI ARV MODEL#
D-040P W=WATERMAIN
D-021P RW= REUSE WATER
D-025P FM=FORCEMAIN

CREATED	FEB 2003
REVISED	MAY 2021

W, RW, FM AIR RELEASE VALVE ASSEMBLY (VERTICAL PIPE LAYOUT)

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL

PASCO COUNTY UTILITIES | DETAIL G16

SEE NOTES DETAIL G-11

		4"	6"	8"	12"	16"	18"	20"	24"	30"
L	6"	35(44)								
A	8"	55(70)	32(48)							
R	12"	94(134)	78(113)	57(82)						
G	16"		117(165)	101(144)	59(84)					
E	18"			120(173)	83(118)	31(44)				
	20"				104(149)	58(83)	31(44)	58(83)		
E	24"				143(204)	106(151)	83(119)	58(83)		
N	30"					163(232)	145(207)	126(180)	81(115)	
O	36"							195(278)	145(207)	80(114)
	48"							266(381)	241(345)	196(280)

REDUCER RESTRAINED JOINTS (150 PSI)
MINIMUM LINEAR FEET OF BRANCH PIPE TO BE RESTRAINED FROM JOINT TEE

TEE

	BRANCH	4"	6"	8"	12"	16"	18"	20"	24"	30"	36"	48"
	4"	21(29)										
	6"	10(15)	28(54)									
	8"	0(0)	30(43)	55(78)								
R	12"	0(0)	15(21)	43(62)	86(123)							
U	16"		0(0)	26(43)	78(111)	116(185)						
N	18"		0(0)	24(34)	73(104)	112(161)	130(186)					
	20"		0(0)	16(23)	68(98)	109(156)	127(181)	143(205)				
	24"		0(0)	1(2)	58(83)	102(145)	120(172)	128(197)	172(243)			
	30"		0(0)	0(0)	42(61)	90(128)	110(157)	126(184)	163(233)	207(298)		
	36"			0(0)	25(35)	77(110)	99(141)	118(169)	155(222)	201(287)	241(344)	
	48"				0(0)	48(68)	73(104)	94(135)	136(194)	186(266)	228(328)	300(429)

TEE RESTRAINED JOINTS (150 PSI)
MINIMUM LINEAR FEET OF BRANCH PIPE TO BE RESTRAINED FROM JOINT TEE

PIPE SIZE	4"	6"	8"	12"	16"	18"	20"	24"	30"	36"	48"
CAPPED ENDS											
90° BENDS	42(60)	56(80)	77(110)	108(155)	138(198)	153(218)	166(238)	194(277)	231(330)	265(379)	329(465)
45° BENDS	17(25)	23(35)	32(45)	45(64)	57(82)	63(90)	69(987)	80(115)	96(137)	110(157)	135(192)
22 1/2° BENDS	8(12)	12(17)	15(22)	22(31)	28(39)	30(43)	33(47)	38(55)	46(66)	53(75)	65(92)
11 1/4° BENDS	4(6)	6(8)	8(11)	11(15)	14(19)	15(21)	16(22)	19(27)	23(32)	26(37)	32(46)
VALVE	--	--	--	--	--	--	--	--	--	--	--

DUCTILE IRON RESTRAINED JOINTS
FOR VERTICALLY ORIENTED FITTINGS (150 PSI)
MINIMUM LINEAR FEET OF PIPE TO BE RESTRAINED JOINTS TEE AT BENDS VALVE OR END CAPS

PIPE SIZE	4"	6"	8"	12"	16"	18"	20"	24"	30"	36"	48"
CAPPED ENDS	42(60)	56(80)	77(110)	108(155)	138(198)	153(218)	166(238)	194(277)	231(330)	265(379)	329(465)
90° BENDS	20(24)	28(33)	37(43)	51(60)	65(76)	72(83)	78(90)	89(104)	104(122)	120(138)	144(167)
45° BENDS	8(10)	12(14)	15(18)	21(25)	27(31)	30(35)	32(37)	37(43)	44(52)	50(57)	60(69)
22 1/2° BENDS	4(5)	6(7)	7(9)	10(12)	13(15)	15(17)	16(18)	18(21)	21(24)	24(28)	29(33)
11 1/4° BENDS	2(2)	3(3)	4(4)	5(6)	7(8)	8(9)	8(9)	9(11)	11(12)	12(14)	14(16)
VALVE	35(50)	49(70)	64(92)	90(130)	115(165)	128(185)	139(985)	165(236)	193(275)	220(320)	329(465)

DUCTILE IRON RESTRAINED JOINTS
FOR HORIZONTAL FITTINGS (150 PSI)
MINIMUM LINEAR FEET OF PIPE TO BE RESTRAINED JOINTS TEE AT BENDS VALVE OR END CAPS

* NUMBER IN PARENTHESIS REPRESENTS LINEAL FEET OF RESTRAINT FOR POLY WRAP AND FOR PVC PIPE

CREATED	JULY 2015
REVISED	NOV. 2015
	MAY 2016
	JUNE 2017

RESTRAINED JOINT TABLES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL

PASCO COUNTY UTILITIES | DETAIL G10

RESTRAINED JOINT NOTES

1. THE PROGRAM, "THRUST RESTRAINT" DISTRIBUTED BY THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) WAS USED TO CALCULATE THE LENGTH OF RESTRAINED JOINTS BASED ON TYPE 3 STANDARD ANSI/AWWA C150/A21.50 LAYING CONDITIONS FOR DUCTILE IRON PIPE, SANDY / SILTY SOIL, 3.0 FT MIN. COVERAGE AND 150PSI OPERATING PRESSURE APPROPRIATE ADJUSTMENTS MUST BE MADE FOR DEVIATIONS FROM THESE ASSUMPTIONS.
2. SELECTED COMMON FILL FROM ORIGINAL EXCAVATION, SEE SPECIFICATIONS.
3. USE OF ALTERNATIVE TYPES OF PIPE BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENGINEER.
4. FOR COMBINED BENDS FORMING OFFSETS, THE LENGTHS QUOTED SHALL BE DOUBLED AND PROVIDED EACH SIDE OF THE CENTROID OF THE OFFSET.
5. VALVES LOCATED NEAR BENDS OR TEES SHALL TAKE ACCOUNT OF ADDITIONAL PASSIVE SOIL RESISTANCE.
6. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION, DEWATER AS NECESSARY.
7. EXISTING CONCRETE / ASPHALT SURFACES AND BASE SHALL BE CUT SQUARE WITH CONCRETE SAW.
8. ALL FITTINGS AND VALVES SHALL BE MECHANICALLY RESTRAINED. IN ADDITION TO THE FITTING BEING RESTRAINED, THE MINIMUM LINEAR FEET TO BE RESTRAINED ON BOTH SIDES OF THE FITTING SHALL BE AS SHOWN IN THE TABLE UNLESS OTHERWISE NOTED. THE RESTRAINED JOINT LENGTH FOR DUCTILE IRON PIPE ARE AS SHOWN. APPROPRIATE ADJUSTMENTS MUST BE MADE FOR PIPE MATERIALS OTHER THAN DUCTILE IRON.
9. IF THE PIPE IS DEFLECTED, THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE 75% OF THE MANUFACTURERS RECOMMENDED DEFLECTION, FOR THE JOINT TYPE USED.
10. RESTRAINED JOINTS IN CARRIER PIPES (JACK AND BORE) SHALL NOT BE INCLUDED IN RESTRAINED LENGTHS.

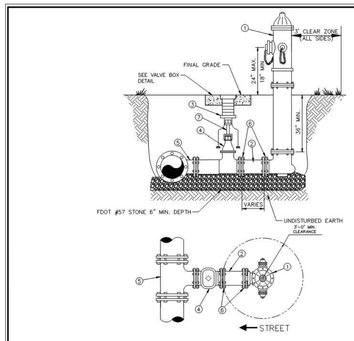
* NUMBERS IN PARENTHESES REPRESENT LINEAL FEET OF RESTRAINT FOR POLY WRAPPED DIP AND FOR PVC PIPE.

CREATED	JULY 2015
REVISED	NOV. 2015
	MAY 2016
	JUNE 2017

RESTRAINED JOINT NOTES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL

PASCO COUNTY UTILITIES | DETAIL G11



PERPENDICULAR TO THE MAIN

MATERIALS

ITEM	QUANT.	DESCRIPTION
1	1	FIRE HYDRANT (5 1/4" VALVE MIN.) PAINTED YELLOW
2	*	RESERVED
3	1	VALVE BOX, SLIP TYPE
4	1	6" VALVE, GATE, M.J. RESILIENT WEDGE, N.R.S.
5	1	ANCHOR TEE, M.J.
6	*	6" RESTRAINED JOINT M.J. (MEGALUG OR EQUAL)
7	*	VALVE EXTENSION ROD, AS NECESSARY (3' MAX. BELOW GRADE)
8	*	6" 90° BEND, D.I., RESTRAINED

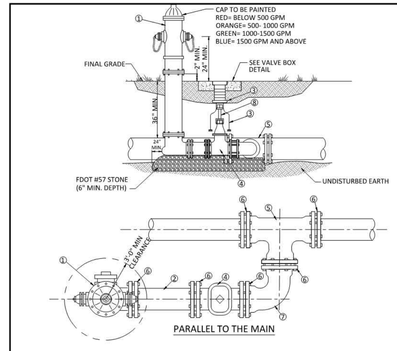
NOTES:
1. MINIMUM CLEARANCE OF 18" FROM C/L OF STEAMER NOZZLE TO FINAL GRADE, TO BE ADJUSTED BY CONTRACTOR.
2. ADD REFLECTIVE PAVEMENT MARKER (RPM, BLUE/BLUE) IN CENTER OF LANE IMMEDIATELY ADJACENT TO HYDRANT.
3. A 3-FT CLEAR ZONE SURROUNDING THE HYDRANT SHALL BE FREE OF ANY TREES, SHRUBS, AND DRIVEWAYS.
4. HYDRANT CAPS SHALL BE COLOR CODED BASED ON FLOW RATES:
   - BELOW 500 GPM: RED
   - 500-1,000 GPM: ORANGE
   - 1,000-1,500 GPM: GREEN
   - ABOVE-1,500 GPM: BLUE
5. THE FOLLOWING FIRE HYDRANTS ARE ACCEPTABLE – AMERICAN FLOW B-84-B; KENNEDY K-81 OR EQUAL

CREATED	FEB 2003
REVISED	SEPT 2014
	AUG 2015
	FEB 2020

STANDARD FIRE HYDRANT CONFIGURATION

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL

PASCO COUNTY UTILITIES | DETAIL W13



PARALLEL TO THE MAIN

MATERIALS

ITEM	QUANT.	DESCRIPTION
1	1	FIRE HYDRANT (5 1/4" VALVE MIN.) BODY PAINTED YELLOW
2	*	6" DIA. PIPE, P.V.C. (DR-14) MAX 20' LENGTH
3	1	VALVE BOX, SLIP TYPE
4	1	6" VALVE, GATE, M.J. RESILIENT WEDGE, N.R.S.
5	1	MJ ANCHOR TEE
6	*	6" RESTRAINED JOINT M.J. (MEGALUG OR EQUAL)
7	1	6" 90° BEND M.J. D.I. RESTRAINED
8	*	VALVE EXTENSION ROD, AS NECESSARY (3' MAX. BELOW GRADE)

CREATED	MAY 2021
REVISED	

FIRE HYDRANT CONFIGURATION (SPACE-CONSTRAINED)

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL

PASCO COUNTY UTILITIES | DETAIL W14

NOTES:
1. MINIMUM CLEARANCE OF 18" FROM C/L OF STEAMER NOZZLE TO FINAL GRADE, TO BE ADJUSTED BY CONTRACTOR.
2. ADD REFLECTIVE PAVEMENT MARKER (RPM, BLUE/BLUE) IN CENTER OF LANE IMMEDIATELY ADJACENT TO HYDRANT.
3. A 3-FT CLEAR ZONE SURROUNDING THE HYDRANT SHALL BE FREE OF ANY TREES, SHRUBS, AND DRIVEWAYS.
4. HYDRANT CAPS SHALL BE COLOR CODED BASED ON FLOW RATES:
   - BELOW 500 GPM: RED
   - 500-1,000 GPM: ORANGE
   - 1,000-1,500 GPM: GREEN
   - ABOVE-1,500 GPM: BLUE
5. THE FOLLOWING FIRE HYDRANTS ARE ACCEPTABLE - AMERICAN FLOW B-84-B; KENNEDY K-81 OR APPROVED EQUAL

CREATED	MAY 2021
REVISED	

FIRE HYDRANT CONFIGURATION (SPACE-CONSTRAINED) NOTES

PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL

PASCO COUNTY UTILITIES | DETAIL W14A

DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

Clearview LAND DESIGN, P.L.
Registered Business Number: RY28858
3010 W Azeele St., Suite 150, Tampa, Florida 33609
Office: 813-223-3919 Fax: 813-223-3975

This item has been digitally signed and sealed by JORDAN A. SCHRADER, P.E. on the date adjacent to the seal. Signature must be verified on any electronic copies.

DATE: 01/15/2026
JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

UTILITY DETAILS

JOB NO.	PHC-AP-007
DESIGN	OBRIEN
DRAWN	OBRIEN
DATE	01-15-2026
FILE	WSD

KENTON ROAD
1ST EXTENSION MODIFICATION

PREPARED FOR: PULTE HOME COMPANY, LLC

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

P:\APRIL\KENTON ROAD MODIFICATION\DRAWING\CONDOC\WSD.DWG-33 UTILITY DETAILS 2026/01/15 2:27 PM CLD ENGINEER01

1. INTRODUCTION

THIS DOCUMENT IS INTENDED TO PROVIDE GUIDANCE TO THE RESPONSIBLE AUTHORITY/OPERATOR FOR THE CREATION OF A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN COMPLIANCE WITH CHAPTER 62-621.500 (4) OF THE FLORIDA ADMINISTRATIVE CODE, WHICH PERTAINS TO THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. THE ADMINISTRATIVE CODE GRANTS THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) THE AUTHORITY TO REGULATE POINT SOURCE DISCHARGE OF STORMWATER FROM CONSTRUCTION SITES.

THE INFORMATION CONTAINED HEREIN IS ORGANIZED TO CORRESPOND TO THE ITEMS OUTLINED IN PART 4 OF THE FDEP FORM 62-621.300(4)(a) 'GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES'. IT SHALL BE THE RESPONSIBILITY OF THE RESPONSIBLE AUTHORITY/OPERATOR TO DEVELOP THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN AND TO SUBMIT THE FDEP FORM 62-621.300(4)(b) 'NOTICE OF INTENT TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES' AT LEAST TWO (2) CALENDAR DAYS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. THE RESPONSIBLE AUTHORITY/OPERATOR SHALL POST A COPY OF THE NOTICE OF INTENT (NOI) OR ACKNOWLEDGMENT LETTER FROM FDEP AT THE CONSTRUCTION SITE IN A PROMINENT PLACE FOR PUBLIC VIEWING. THE RESPONSIBLE AUTHORITY/OPERATOR SHALL ALSO MAINTAIN RECORDS OF THE SWPPP AND OTHER DOCUMENTS SPECIFIED IN THE GENERIC PERMIT AT THE CONSTRUCTION SITE TO BE AVAILABLE FOR REVIEW.

2. SITE DESCRIPTION

COUNTY: PASCO
SECTION, TOWNSHIP, RANGE: 27, 28, 25 SOUTH, 20 EAST
COUNTY PARCEL NO.: 28-25-20-0000-00400-0010
STREET ADDRESS: INTERSECTION OF ELAM & KENTON ROAD
PROJECT AREA: 12.7± ACRES
SITE LOCATION MAP: REFER TO CONSTRUCTION PLANS

A. NATURE OF CONSTRUCTION ACTIVITY

THE PROJECT IS COMPRISED OF THE CONSTRUCTION OF ROAD CONSTRUCTION WITH SUPPORTING INFRASTRUCTURE.
ANTICIPATED START DATE: DECEMBER 2025
ANTICIPATED COMPLETION DATE: DECEMBER 2027

THE START AND END DATES FOR EACH MAJOR CONSTRUCTION ACTIVITY SHALL BE INCLUDED WITH THE SWPPP. THE SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES OUTLINED BELOW IS PROVIDED AS A GENERAL GUIDELINE, THE ACTUAL SEQUENCING AND DATES ARE TO BE PROVIDED IN THE SWPPP:

B. GENERAL SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES

1. PRIOR TO CONSTRUCTION, SILT FENCING AND TREE PROTECTION FENCING SHALL BE INSTALLED AND ALL EXISTING STORM DRAINAGE SWALE AND INLETS SHALL BE PROTECTED IN ACCORDANCE WITH THE PRACTICES DESCRIBED IN 'THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL' (CURRENT EDITION) AND FDOT STANDARD SPECIFICATION SECTION 104 (CURRENT EDITION).
2. THE CONSTRUCTION SERVICE ENTRANCE SHALL BE STABILIZED TO MINIMIZE THE CREATION OF DUST AND OFF-SITE TRACKING OF SEDIMENTS.
3. ONLY THE AREA COMPRISING THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) SHALL BE CLEARED AND GRUBBED OF UNWANTED VEGETATION.
4. THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) SHALL BE CONSTRUCTED.
5. IF SUITABLE, THE EXCAVATED SOIL FROM THE FACILITY(S) MAY BE USED AS FILL FOR ON-SITE GRADING THAT IS DEPICTED IN THESE CONSTRUCTION PLANS. THE CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIAL ON-SITE OR OFF-SITE TO A PERMITTED LOCATION.
6. THE REMAINING PORTION OF THE SITE THAT IS TREATED BY THE CONSTRUCTED STORMWATER MANAGEMENT FACILITY(S) SHALL BE CLEARED AND GRUBBED.
7. THE PERMANENT ROADWAYS/ DRIVEWAYS SHALL BE ROUGHLY GRADED.
8. THE UNDERGROUND UTILITIES INFRASTRUCTURE AND STORMWATER PIPING SYSTEM SHALL BE INSTALLED. ANY DE-WATERING (PUMPED) SHALL BE DIVERTED TO THE ASSOCIATED STORMWATER MANAGEMENT FACILITY(S).
9. THE PERMANENT ROADWAY / DRIVEWAY SUBGRADE SHALL BE COMPACTED, A BASE SHALL BE ESTABLISHED, AND THEN FOLLOWED BY AN OVERLAY OF ASPHALT OR CONCRETE PAVEMENT.
10. UPON SIGNIFICANT COMPLETION OF CONSTRUCTION, THE STORMWATER PIPING SYSTEM SHALL BE FLUSHED OUT TO REMOVE ACCUMULATED DEBRIS AND SEDIMENT.
11. UPON COMPLETION OF THE DEBRIS AND SEDIMENT REMOVAL FROM THE STORMWATER PIPING SYSTEM, THE PROPOSED STORMWATER MANAGEMENT FACILITY(S) SHALL BE FINE GRADED AND BE EXCAVATED TO THE DESIGN BOTTOM ELEVATION. ONCE COMPLETED, NO HEAVY MACHINERY SHALL BE ALLOWED WITHIN THE STORMWATER MANAGEMENT FACILITY(S).
12. ALL REMAINING DISTURBED AREAS WITHIN THE CONSTRUCTION AREA SHALL BE COMPLETELY GRASSED AND/OR LANDSCAPED ACCORDING TO THE CONSTRUCTION AND/OR LANDSCAPING PLANS. TURF ESTABLISHMENT SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION SECTION 570. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO REMOVAL OF SILT FENCING AND OTHER EROSION CONTROL APPLICATIONS.

C. SITE AREA ESTIMATES AND RUNOFF DATA:

TOTAL PROJECT SITE AREA: 12.7± ACRES
TOTAL SITE AREA TO BE DISTURBED: 12.7± ACRES

RUNOFF COEFFICIENTS:

PRE-DEVELOPMENT 'C' FACTOR: 0.25
POST-DEVELOPMENT 'C' FACTOR: 0.45

D. SOIL CONDITIONS AND STORMWATER QUALITY

THE NRCS DATA FOR THE SITE REVEALS THAT THE SITE SOILS ARE COMPRISED OF POMONA & IMMOKALEE FINE SANDS (HSG B/D), NEWNAN & PALMETTO-ZEPHYR-SELLERS FINE SANDS (HSG A/D), NOBLETON FIND SAND (C/D). REFER TO THE GENERAL NOTES SHEET IN THE CONSTRUCTION PLANS FOR INFORMATION REGARDING THE GEOTECHNICAL INVESTIGATIONS FOR THE SITE.

E. SITE MAP

REFER TO CONSTRUCTION PLANS

F. STORMWATER OUTFALL LOCATION AND RECEIVING WATER BODY.

OUTFALL ID#	LOCATION	RECEIVING WATERBODY
EX. POND A	28°17'06"N, 82°18'03"W	KING LAKE (WBID #1418A)

3. CONTROLS TO REDUCE POLLUTION

AS OUTLINED IN THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD) ERP, ALL CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN A MANNER AS TO NOT VIOLATE STATE WATER QUALITY STANDARDS. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY, THE RESPONSIBLE AUTHORITY/OPERATOR SHALL IMPLEMENT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES TO RETAIN SEDIMENT ON-SITE IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). IF SITE CONDITIONS ARE SUCH THAT ADDITIONAL CONTROL MEASURES ARE REQUIRED OTHER THAT WHAT IS OUTLINED IN THE SWPPP. THE RESPONSIBLE AUTHORITY/OPERATOR OR OTHER SUBCONTRACTORS SHALL IMPLEMENT ADDITIONAL BEST MANAGEMENT PRACTICES. REGULAR INSPECTION AND MAINTENANCE OF THESE MEASURES IS REQUIRED FOR THE DURATION OF CONSTRUCTION ACTIVITIES. THE FOLLOWING INFORMATION IS INTENDED TO PROVIDE GUIDANCE ON STANDARD MEASURES AND BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL. PLEASE REFER TO THE SWPPP FOR SPECIFIC DETAILS AND REQUIREMENTS FOR THE SITE.

4. EROSION AND SEDIMENT CONTROLS

A. GENERAL STABILIZATION PRACTICES

EXISTING TREES AND NATURAL VEGETATION TO REMAIN ON-SITE SHALL BE PROTECTED BY TREE BARRICADE FENCING AS DEPICTED. TYPE III SILT FENCING SHALL PROTECT ALL DRAINAGE STRUCTURES AND SHALL BUFFER AREAS WITH POTENTIAL TO CONTRIBUTE OFF-SITE RUNOFF AND AS SPECIFICALLY DEPICTED ON THE SWPPP. STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN SEVEN (7) DAYS OR AS REQUIRED BY THE PERMITTING AGENCY, IN PORTIONS OF THE SITE WHERE CONSTRUCTION TEMPORARILY OR PERMANENTLY CEASED. UPON COMPLETION OF CONSTRUCTION, ALL STORMWATER MANAGEMENT FACILITIES SHALL BE SCRAPED CLEAN OF ANY ACCUMULATED SEDIMENT OR DEBRIS. ALL TURF ESTABLISHMENT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF FDOT STANDARD SPECIFICATION SECTION 570 AND EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO THE REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES.

B. GENERAL STORM STRUCTURE PROTECTION PRACTICES

A STORMWATER MANAGEMENT SYSTEM WILL BE CONSTRUCTED IN ACCORDANCE WITH THE CONSTRUCTION PLANS AND WILL BE COMPRISED OF A WET DETENTION FACILITY AND A STORM PIPE CONVEYANCE SYSTEM. TO PREVENT EROSION DURING CONSTRUCTION, TYPE III SILT FENCING IS TO BE INSTALLED IN THE LOCATIONS SHOWN WITHIN THE CONSTRUCTION PLANS AND THE SWPPP. ALL EXISTING AND PROPOSED STORM DRAINS AND DRAINAGE SWALES SHALL BE PROTECTED IN ACCORDANCE WITH THE MEASURES DETAILED IN THE SWPPP AND/OR THE 'STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL' (CURRENT EDITION) UNTIL CONSTRUCTION HAS BEEN COMPLETED. UPON COMPLETION OF CONSTRUCTION OR SOIL DISTURBANCE ACTIVITIES, THE STORM PIPE CONVEYANCE SYSTEM SHALL BE FLUSHED TO REMOVE ALL ACCUMULATED DEBRIS AND SEDIMENT.

C. DRAINAGE AREAS SERVING LESS THAN 10 DISTURBED ACRES

DRAINAGE AREAS THAT ARE COMPRISED OF 10 DISTURBED ACRES OR LESS ARE RECOMMENDED TO UTILIZE SEDIMENT BASINS AND/OR TRAPS IF THE AREA IS NOT SERVED BY A PERMANENT STORMWATER MANAGEMENT FACILITY. IF A PERMANENT STORMWATER MANAGEMENT FACILITY IS PROPOSED TO BE USED AS A SEDIMENT BASIN AND/OR TRAP, APPROPRIATE MEASURES SHALL BE TAKEN TO ENSURE REMOVAL OF ANY ACCUMULATED SEDIMENT OR DEBRIS TO ASSURE THE DESIGN CAPACITY OF THE FACILITY IS PROVIDED. SILT FENCES OR OTHER SEDIMENT CONTROL SHALL BE INSTALLED AS OUTLINE IN THE CONSTRUCTION PLANS AND THE SWPP. LOCATION WHERE SILT FENCE SHALL BE INSTALLED INCLUDES, BUT IS NOT LIMITED TO, SIDE SLOPE AND DOWN SLOPE BOUNDARIES, INLET LOCATIONS, OUTLET LOCATIONS, WETLAND SETBACKS, OR AS OTHERWISE NOTED IN THE SWPPP. UPON COMPLETION OF CONSTRUCTION OR SOIL DISTURBING ACTIVITIES, SIDE SLOPES, SWALES, AND ALL DISTURBED AREAS SHALL BE STABILIZED WITH GRASS AND LANDSCAPING AS SPECIFIED ON THE CONSTRUCTION DRAWINGS. NOTE THAT EROSION CONTROL IS SUBJECT TO THE SWPPP AND MAY BE AMENDED BY THE RESPONSIBLE AUTHORITY/OPERATOR AS NEEDED TO ENSURE SEDIMENTATION IS ADEQUATELY CONTROLLED.

D. DRAINAGE AREAS SERVING MORE THAN 10 DISTURBED ACRES

DRAINAGE AREAS THAT ARE COMPRISED OF 10 DISTURBED ACRES OR MORE ARE REQUIRED TO UTILIZE SEDIMENT BASINS AND/OR TRAPS IF THE AREA IS NOT SERVED BY A PERMANENT STORMWATER MANAGEMENT FACILITY. IF A PERMANENT STORMWATER MANAGEMENT FACILITY IS PROPOSED TO BE USED AS A SEDIMENT BASIN AND/OR TRAP, APPROPRIATE MEASURES SHALL BE TAKEN TO ENSURE REMOVAL OF ANY ACCUMULATED SEDIMENT OR DEBRIS TO ASSURE THE DESIGN CAPACITY OF THE FACILITY IS PROVIDED. SILT FENCES OR OTHER SEDIMENT CONTROL SHALL BE INSTALLED AS OUTLINE IN THE CONSTRUCTION PLANS AND THE SWPPP. LOCATIONS WHERE SILT FENCE SHALL BE INSTALLED INCLUDES, BUT IS NOT LIMITED TO, SIDE SLOPE AND DOWN SLOPE BOUNDARIES, INLET LOCATIONS, OUTLET LOCATIONS, WETLAND SETBACKS, OR AS OTHERWISE NOTED IN THE SWPPP. UPON COMPLETION OF CONSTRUCTION OR SOIL DISTURBING ACTIVITIES, SIDE SLOPES, SWALES, AND ALL DISTURBED AREAS SHALL BE STABILIZED WITH GRASS AND LANDSCAPING AS SPECIFIED ON THE CONSTRUCTION DRAWINGS. NOTE THAT EROSION CONTROL IS SUBJECT TO THE SWPPP AND MAY BE AMENDED BY THE RESPONSIBLY AUTHORITY/OPERATOR AS NEEDED TO ENSURE SEDIMENTATION IS ADEQUATELY CONTROLLED.

5. STORMWATER MANAGEMENT PRACTICES

A. BEST MANAGEMENT PRACTICES

AFTER CONSTRUCTION, THE STORMWATER MANAGEMENT SYSTEM SHALL BE MAINTAINED IN ACCORDANCE WITH THE SPECIFIED STORMWATER MAINTENANCE NOTES IN THE INCLUDED CONSTRUCTION DRAWINGS AND/OR RESPECTIVE MAINTENANCE REPORTS. SPECIFICALLY, THE PROPOSED SMF(S) SHALL BE MOWED REGULARLY IN THE SPECIFIED AREAS; STORM PIPES AND STRUCTURES WILL BE INSPECTED SEMI-ANNUALLY AND CLEANED ANNUALLY.

B. VEGETATED SWALES

WHEN VEGETATED SWALES ARE UTILIZED, SILT FENCING OR EQUIVALENT SEDIMENT CONTROLS SHALL BE INSTALLED AT ADEQUATE INTERVALS TO COLLECT SEDIMENT ALONG THE SWALE. THE SEDIMENT SHALL BE REMOVED WHEN SEDIMENT REACHES ONE-THIRD OF THE HEIGHT OF THE SILT FENCING.

C. VELOCITY DISSIPATION DEVICES AT DISCHARGE POINTS

WHEN DISCHARGE POINTS ARE NOT LOCATED UNDER WATER, RIPRAP PADS HAVE BEEN PROVIDED AT LOCATIONS WHERE NECESSARY DUE TO ANTICIPATED DISCHARGE VELOCITIES. PLEASE SEE THE CONSTRUCTION PLANS FOR DETAILS AND LOCATIONS, AS NEEDED.

6. CONTROLS FOR OTHER POTENTIAL POLLUTANTS

A. WASTE DISPOSAL

DISPOSE OF ALL UNSUITABLE MATERIALS AND CONSTRUCTION DEBRIS IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS. THE METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE SPECIFIED IN THE SWPPP OR APPROVED BY THE ENGINEER: PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES, DISPOSE OF ALL FERTILIZERS OR OTHER CHEMICAL CONTAINERS TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER, DISPOSE OF SOLID MATERIALS, INCLUDING BUILDING AND CONSTRUCTION MATERIALS, OFF THE PROJECT SITE IN APPROVED LOCATIONS. NO MATERIALS SHALL BE DISPOSED OF IN SURFACE WATERS OR WETLANDS.

B. OFF-SITE VEHICLE TRACKING & DUST CONTROL

TO MINIMIZE OFF-SITE VEHICULAR TRACKING OF SEDIMENTS AND DUST GENERATION, A STABILIZED CONSTRUCTION EXIT/ENTRANCE AND SOIL TRACKING PREVENTION DEVICE SHALL BE ESTABLISHED AT ALL CONSTRUCTION ENTRANCES. INCLUDE THE FOLLOWING METHODS IN ADDITION TO THOSE SPECIFIED IN THE SWPPP OR AS DIRECTED BY THE ENGINEER: COVER LOADED HAUL TRUCKS WITH TARPAULINS, REMOVE EXCESS DIRT FROM ROADS DAILY, USE ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION OR MILLING OPERATIONS.

C. TEMPORARY POTABLE WATER AND SANITARY SEWER SYSTEMS

ENSURE THAT TEMPORARY/CONSTRUCTION POTABLE CONNECTIONS TO EXISTING PUBLIC WATER MAINS ARE INSTALLED IN ACCORDANCE WITH THE GOVERNING AUTHORITY/UTILITY OWNER'S REQUIREMENTS. IF TEMPORARY SANITARY SYSTEMS ARE UTILIZED DURING CONSTRUCTION PROPERLY CONTROL AND DISCHARGE ANY SANITARY WASTE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

D. FERTILIZER & PESTICIDES

THE USE OF FERTILIZERS, HERBICIDES, AND PESTICIDES ON THE PROJECT SITE WILL BE DIRECTED BY THE LANDSCAPE PLAN AND TO SUPPORT THE GROWTH OF THE PROPOSED VEGETATION. ESTABLISHING THIS VEGETATION WILL AID IN THE STABILIZATION OF THE PROJECT SITE AND REDUCE EROSION. APPLICATION RATES FOR THE FERTILIZERS, HERBICIDES, AND PESTICIDES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS TO GUARD AGAINST OVERUSE, WHICH CAN LEAD TO VIOLATIONS OF STATE WATER QUALITY STANDARDS.

E. HAZARDOUS MATERIAL

THE SWPPP SHALL PROVIDE A LIST OF HAZARDOUS MATERIALS THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES. THE CONSTRUCTION SITE MUST BE IN COMPLIANCE WITH STATE (FDEP RULE CHAPTER 62-25 F.A.C.) AND FEDERAL REQUIREMENTS. IN ADDITION, THE CONSTRUCTION SITE SHALL BE ALSO BE IN COMPLIANCE WITH ALL APPLICABLE LOCAL CODES, ORDINANCES, OR REQUIREMENTS.

7. CHANGES TO THE STORMWATER POLLUTION PREVENTION PLAN

THE SWPP SHALL BE AMENDED TO REFLECT ANY APPLICABLE CHANGES IN A STATE, REGIONAL, OR LOCAL PERMIT FOR WHICH THE RESPONSIBLE AUTHORITY/OPERATOR RECEIVES WRITTEN NOTICE. WHEN WRITTEN NOTICE IS RECEIVED, THE RESPONSIBLE AUTHORITY/OPERATOR SHALL PROVIDE A RE-CREATION OF THE SWPPP, WHICH HAS BEEN REVISED TO ADDRESS SUCH CHANGES. AMENDMENTS TO THE PLAN SHALL BE PREPARED, SIGNED, DATED, AND KEPT AS ATTACHMENTS TO THE ORIGINAL PLAN.

8. MAINTENANCE

THE SWPPP SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGH THE DURATION OF THE PROJECT. THE MAINTENANCE PLAN SHOULD, AT A MINIMUM, THE SWPPP SHOULD COMPLY WITH THE FOLLOWING:

A. SILT FENCE: MAINTAIN PER FDOT STANDARD SPECIFICATION SECTION 104. ANTICIPATE REPLACEMENT OF SILT FENCE ON 12 MONTH INTERVALS.
B. SEDIMENT BARRIERS: REMOVE SEDIMENT AS PER MANUFACTURE'S RECOMMENDATIONS OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS.
C. STORMWATER PONDS: REMOVE SEDIMENT FROM THE PONDS OR BASINS WHEN IT BECOMES 1.5' DEEP AT ANY POINT OR AS DIRECTED BY THE ENGINEER
D. IF REPAIRS ARE REQUIRED TO ANY OF THE EROSION AND SEDIMENT CONTROLS, IT SHALL BE INITIATED WITHIN 24 HOURS OF BEING REPORTED.

12. INSPECTIONS

INSPECTION OF THE PROJECT SITE AND SEDIMENT & EROSION CONTROLS SHALL BE DONE IN ACCORDANCE WITH THE SWPPP. AT A MINIMUM, QUALIFIED PERSONNEL SHALL INSPECT ITEMS A – G AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF STORM EVENT THAT IS 0.50 INCHES OR GREATER. IN ORDER TO ENSURE COMPLIANCE, RAIN GAUGE(S) SHALL BE INSTALLED AND MAINTAINED AT THE PROJECT SITE TO RECORD THE DAILY RAINFALL AMOUNTS. IN PORTIONS OF THE PROJECT WHERE PERMANENT STABILIZATION HAS BEEN COMPLETED, CONDUCT INSPECTIONS AT LEAST ONCE EVERY MONTH.

ALL INSPECTIONS ARE TO BE RECORDED AND INCLUDE THE NAME(S) AND QUALIFICATION OF THE INSPECTOR, THE DATE OF INSPECTION, RAINFALL DATA, LOCATION AND CONDITION OF CONTROL MEASURES, OBSERVATIONS, AND CORRECTIVE ACTIONS RECOMMENDED. A COPY OF THE SWPPP INSPECTION REPORT FORM FROM FDEP HAS BEEN INCLUDED ON THIS SHEET AS AN EXAMPLE. ALSO, INSPECT AND ENSURE THAT CONTROLS INSTALLED IN THE FIELD CORRESPOND TO THOSE SPECIFIED ON THE CURRENT SWPPP.

AREAS TO INSPECT INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

A. POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES
B. POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM DRAIN SYSTEMS (MS4)
C. DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED
D. AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION
E. STRUCTURAL CONTROLS
F. STORMWATER MANAGEMENT SYSTEMS
G. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE

INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTION THAT ITEMS ARE NOT IN GOOD WORKING ORDER. IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, OR PREVENT DISCHARGING POLLUTANTS, PROVIDE ADDITIONAL MEASURES AS REQUIRED AND THE RESPONSIBLE AUTHORITY/OPERATOR SHALL REVISE THE SWPPP ACCORDINGLY.

13. NON-STORMWATER DISCHARGES

REFER TO THE SWPPP FOR ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOW FROM FIRE FIGHTING ACTIVITIES). THE SWPPP SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT THE POLLUTION OF THESE NON-STORMWATER DISCHARGES. SUCH DISCHARGES MAY INCLUDE IRRIGATION OPERATIONS OR RUNOFF GENERATED FROM CONSTRUCTION PRACTICES.

14. CONTRACTORS CERTIFICATION

ENSURE THAT ALL CONTRACTORS AND SUBCONTRACTORS WORKING WITHIN THE PROJECT AREA SIGN THE FOLLOWING CERTIFICATION, AN EXAMPLE FORM HAS BEEN PROVIDED ON THIS SHEET:

"I certify under penalty of law that I understand, and shall comply with, the terms and conditions of the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities and this Stormwater Pollution Prevention Plan prepared thereunder."

15. RETENTION OF RECORDS

THE RESPONSIBLE AUTHORITY/OPERATOR SHALL RETAIN COPIES OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), ALL REPORTS REQUIRED BY THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES, AND ALL DATA USED TO COMPLETE THE NOTICE OF INTENT FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THAT THE SITE HAS REACHED FINAL STABILIZATION AND THE NOTICE OF TERMINATION (N.O.T.) IS SUBMITTED.

16. NOTICE OF TERMINATION

WHEN THE SITE HAS REACHED FINAL STABILIZATION AND ALL STORMWATER DISCHARGE AUTHORIZED BY THE GENERIC PERMIT HAS BEEN ELIMINATED, THE RESPONSIBLE AUTHORITY/OPERATOR SHALL SUBMIT A NOTICE OF TERMINATION (FDEP FORM 62-621.300(6)) THAT IS SIGNED IN ACCORDANCE WITH PART VII.C OF FDEP DOCUMENT NO. 62.621.300(4)(a) WITHIN 14 DAYS OF FINAL STABILIZATION OF THE SITE TO TERMINATE COVERAGE UNDER THIS PERMIT. THE ELIMINATION OF STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES MEANS THAT ALL DISTURBED SOILS AT THE SITE FINAL BEEN FINALLY STABILIZED AND ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN REMOVED OR WILL BE REMOVED AT AN APPROPRIATE TIME, OR THAT ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES FROM THE SITE THAT ARE AUTHORIZED BY THIS GENERIC PERMIT HAVE OTHERWISE BEEN ELIMINATED. FOR CONSTRUCTION ACTIVITIES WHERE THE RESPONSIBLE AUTHORITY/OPERATOR CHANGES, THE CURRENT RESPONSIBLE AUTHORITY/OPERATOR SHALL FILE A NOTICE OF TERMINATION WITHIN 14 DAYS OF RELINQUISHING CONTROL OF THE PROJECT TO THE NEW RESPONSIBLE AUTHORITY/OPERATOR. NOTE THAT COVERAGE UNDER THE GENERIC PERMIT IS NOT TRANSFERABLE.

THE NOTICE OF TERMINATION CAN BE SUBMITTED EITHER OF THE FOLLOWING WAYS:

A. ONLINE AT http://www.fldepportal.com/go/
B. EMAIL TO NPDES-stormwater@dep.state.fl.us
C. MAIL TO THE FOLLOWING ADDRESS:
NPDES STORMWATER NOTICES CENTER, MS# 2510
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROJECTION
2600 BLAIRSTONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

IF THE PROJECT DISCHARGES TO A MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4), THE RESPONSIBLE AUTHORITY/OPERATION SHALL ALSO SUBMIT A COPY OF THE NOTICE OF TERMINATION OR THE ACKNOWLEDGEMENT LETTER WITHIN SEVEN (7) CALENDAR DAYS OF RECEIPT TO THE OPERATOR OF THE MS4.

17. OWNER'S INSTRUCTIONS FOR MAINTENANCE AND INSPECTION OF STORMWATER FACILITIES

FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES AND NOTICE OF TERMINATION, THE OWNER WILL ASSUME RESPONSIBILITY FOR THE STORMWATER SYSTEM. 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. 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.

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.

Stormwater Pollution Prevention Plan Inspection Report Form

Inspections must occur at least once a week and within 24 hours of the end of a storm event that is 0.50 inches or greater.

Project Name:_____ FDEP NPDES Stormwater Identification Number: FLR_____

Location	Rain data	Type of control (see below)	Date installed / modified	Current Condition (see below)	Corrective Action / Other Remarks

Condition Code:
G = Good M = Marginal, needs maintenance or replacement soon P = Poor, needs immediate maintenance or replacement C = Needs to be cleaned O = Other

Control Type Codes			
1. Silt Fence	10. Storm drain inlet protection	19. Reinforced soil retaining system	28. Tree protection
2. Earth dikes	11. Vegetative buffer strip	20. Gabion	29. Detention pond
3. Structural diversion	12. Vegetative preservation area	21. Sediment Basin	30. Retention pond
4. Swale	13. Retention Pond	22. Temporary seed / sod	31. Waste disposal / housekeeping
5. Sediment Trap	14. Construction entrance stabilization	23. Permanent seed / sod	32. Dam
6. Check dam	15. Perimeter ditch	24. Mulch	33. Sand Bag
7. Subsurface drain	16. Curb and gutter	25. Hay Bales	34. Other
8. Pipe slope drain	17. Paved road surface	26. Geotextile	
9. Level spreaders	18. Rock outlet protection	27. Rip-rap	

Inspector Information:

Name _____ Qualification _____ Date _____

The above signature also shall certify that this facility is in compliance with the Stormwater Pollution Prevention Plan and the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities if there are not any incidents of non-compliance identified above.

* * * * * *

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

_____ _____
Name (Responsible Authority) Date

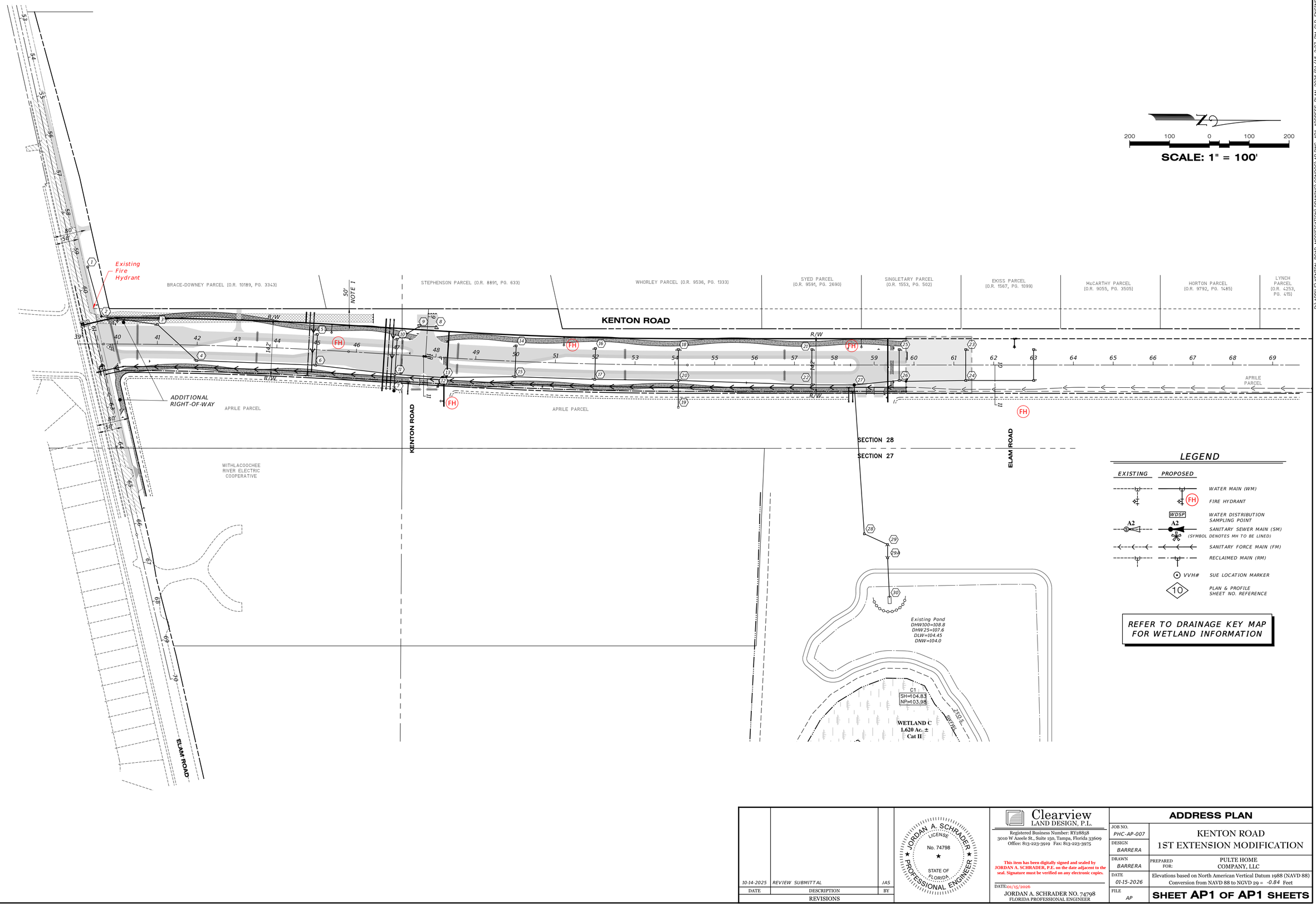
CONTRACTOR/SUBCONTRACTOR CERTIFICATION STATEMENT

SITE NAME:_____
SITE LOCATION:_____

NOTE: THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) MUST CLEARLY IDENTIFY, FOR EACH MEASURE IDENTIFIED WITHIN THE SWPPP, THE CONTRACTOR(S) OR SUBCONTRACTOR(S) THAT WILL IMPLEMENT EACH MEASURE. ALL CONTRACTOR(S) AND SUBCONTRACTOR(S) IDENTIFIED IN THE SWPPP MUST SIGN THE FOLLOWING CERTIFICATION:

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

| DATE | RESPONSIBLE INDIVIDUAL NAME | RESPONSIBLE INDIVIDUAL SIGNATURE | TITLE | COMPANY NAME,



P:\APRILE\KENTON ROAD MODIFICATION\DRAWING\CONDOCC\AP-DWG-APT ADDRESS PLAN 2026/01/15 2:27 PM CLD ENGINEER

DATE	DESCRIPTION	BY
10-14-2025	REVIEW SUBMITTAL	JAS

REVISIONS

JORDAN A. SCHRADER LICENSE No. 74798 STATE OF FLORIDA PROFESSIONAL ENGINEER

Clearview LAND DESIGN, P.L.
Registered Business Number: RY28858
3010 W Azeele St., Suite 150, Tampa, Florida 33609
Office: 813-223-3919 Fax: 813-223-3975

This item has been digitally signed and sealed by JORDAN A. SCHRADER, P.E. on the date adjacent to the seal. Signature must be verified on any electronic copies.

DATE 01/15/2026
JORDAN A. SCHRADER NO. 74798
FLORIDA PROFESSIONAL ENGINEER

ADDRESS PLAN

JOB NO.	PHC-AP-007
DESIGN	BARRERA
DRAWN	BARRERA
DATE	01-15-2026
FILE	AP

KENTON ROAD 1ST EXTENSION MODIFICATION

PREPARED FOR: PULTE HOME COMPANY, LLC

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

SHEET AP1 OF AP1 SHEETS