



PLOT DATE: TIME: Monday, February 09, 2026 @ 11:02 AM  
R:\01-2026-Projects\212-Aventon Holdings II\ELC4855 - Aventon Little Road Design and Permitting\Drawings\Aerial.dwg



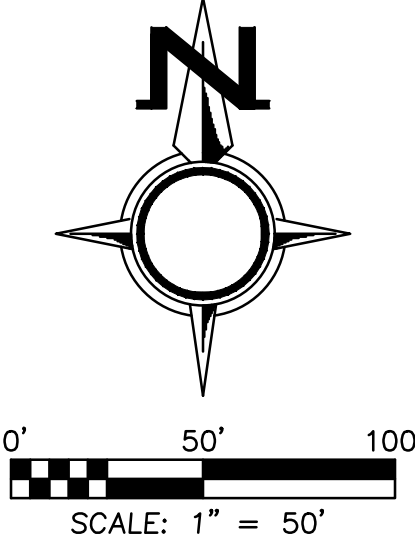
DATE		REV. BY	REV. NO.	REVISION
<p>REUSE OF DOCUMENT</p> <p>THIS DOCUMENT COMPRISED OF THE INCORPORATED REVISIONS AND DESIGNS AS AN INSTRUMENT OF SERVICE IS THE PROPERTY OF REGENCY DESIGN &amp; ENGINEERING, INC. IT IS TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF REGENCY DESIGN &amp; ENGINEERING.</p>				
<p><b>REGENCY</b> Design &amp; Engineering, Inc.</p> <p>9400 RIVER CROSSING BOULEVARD, SUITE 102 NEW PORT RICHEY, FLORIDA 34655 727-375-1155 EXT. 202 - FAX 727-375-1156 CERTIFICATE OF AUTHORIZATION NO. 28266</p>				
<p>PROJECT AERIAL</p> <p>AVENTON LITTLE MULTIFAMILY PASCO COUNTY, FLORIDA</p>				
<p>SHEET <b>2</b></p>				

DRAWING MADE UNLESS NOTED, DATED & SEALED BY REGISTERED PROFESSIONAL

JAMES P. GRABER, P.E., # 93212

LEGEND

- |                                      |                                    |  |                                 |                            |                           |                       |
|--------------------------------------|------------------------------------|--|---------------------------------|----------------------------|---------------------------|-----------------------|
| BFP ----- Back Flow Preventor        | (R) ----- Record Measurement       | FND ----- Found Nail & Disk            | SRVC ----- Service Cabinet      | SWL ----- Solid White Line | IRIG ----- Irrigation Box | Sanitary Marker       |
| BOB ----- Bottom of Box              | RCP ----- Reinforced Concrete Pipe | FNL ----- Found Nail                   | Sign                            | TOB ----- Top of Bank      | Reclaimed Water Box       | Utility Marker        |
| CONC ----- Concrete                  | SHW ----- Seasonal High Water      | FNP ----- Found Pinched Iron Pipe      | TSP ----- Traffic Signal Pole   | U ----- Utility Line       | Traffic Control Box       | Water Marker          |
| CLMP ----- Corrugated Metal Pipe     | THT ----- Control Structure Throat | FPK ----- Found PK Nail                | WF ----- Wetland Flag           | W ----- Water Line         | Utility Box               | Electric Meter        |
| EL ----- Elevation                   | (TYP) ----- Typical                | FKD ----- Found PK Nail and Disk       | YO ----- Yard Drain             | Train Tracks               | Water Box                 | Gas Meter             |
| FFE ----- Finished Floor Elevation   | VCP ----- Vitrified Clay Pipe      | FX ----- Found X Cut                   | BWL ----- Broken White Line     | Fence                      | Drainage Manhole          | Reclaimed Water Valve |
| GTI ----- Grate Top Inlet            | FAD ----- Found Aluminum Disk      | RING ----- Metal Detector Ring         | BYL ----- Broken Yellow Line    | Gate                       | Electric Manhole          | Sanitary Valve        |
| HDPE ----- High-Density Polyethylene | FAXL ----- Found Axle              | SIRC ----- Set Iron Rod and Cap        | C ----- Communications Line     | Guard Rail                 | Grease Manhole            | Utility Valve         |
| INSE ----- Instrument Number         | FBD ----- Found Brass Disk         | SMG ----- Set Mag Nail                 | DWL ----- Double White Line     | Hand Rail                  | Manhole                   | Water Valve           |
| INV ----- Invert                     | FBM ----- Found Bench Mark         | SMGD ----- Set Mag Nail and Disk       | DYL ----- Double Yellow Line    | Cable Handhole             | Sanitary Manhole          | Boundary Line         |
| LB ----- Licensed Business           | FCM ----- Found Conc. Monument     | SNL ----- Set Nail                     | E ----- Electric Line           | Electric Handhole          | Utility Manhole           | Asphalt               |
| MES ----- Mitered End Section        | FDH ----- Found Drill Hole         | SX ----- Set X Cut                     | G ----- Gas Line                | Gas Handhole               | Comm Pedestal             | Concrete              |
| MHW ----- Mean High Water            | FCM ----- Found Conc. Monument     | GCP ----- Ground Control Point         | I ----- Irrigation Line         | Irrigation Handhole        | Electric Pedestal         | Building              |
| O.R. ----- Official Records Book     | FIP ----- Found Iron Pipe          | PCP ----- Permanent Control Point      | OU ----- Overhead Utility Lines | Sanitary Handhole          | Utility Pedestal          |                       |
| OCS ----- Outlet Control Structure   | FIP ----- Found Iron Pipe and Cap  | PRM ----- Permanent Reference Monument | R ----- Reclaim Line            | Water Handhole             |                           |                       |
| OSW ----- Other Surface Waters       | FIR ----- Found Iron Rod           | TBM ----- Temporary Bench Mark         | S ----- Sanitary Sewer Line     | Comm Box                   |                           |                       |
| (P) ----- Plat Measurement           | FIR ----- Found Iron Rod and Cap   | TRP ----- Traverse Point               | SD ----- Storm Drain Line       | Electric Box               |                           |                       |
| Pg ----- Page                        | FMG ----- Found Mag Nail           | WP ----- Work Point                    | SYL ----- Solid Yellow Line     |                            |                           |                       |
| PVC ----- Polyvinyl Chloride         | FMGD ----- Found Mag Nail and Disk |  |                                 |                            |                           |                       |



CURB TO BE REMOVED AND REPLACED AS SHOWN

REMOVE EXISTING VALLEY CURB AND DRIVEWAY AND REPLACE WITH 8 FT CONCRETE M/U TRAIL AND TYPE F CURB TO MATCH ADJACENT CURBING

REMOVE EXISTING VALLEY CURB AND DRIVEWAY AND REPLACE WITH 8 FT CONCRETE M/U TRAIL AND TYPE F CURB TO MATCH ADJACENT CURBING

CURB TO BE REMOVED

CURB TO BE REMOVED

INLET TO BE MODIFIED

DRIVEWAY TO BE REMOVED

SHED TO BE REMOVED

BUILDING TO BE REMOVED

FENCE TO BE REMOVED

SHED TO BE REMOVED

BUILDING TO BE REMOVED

CURB TO BE REMOVED  
BILLBOARD TO BE REMOVED (BY OTHERS)

- NOTE:
- (1) CONTRACTOR TO REMOVE ALL EXISTING UTILITIES SERVING THE EXISTING STRUCTURES ON THE PROPERTY.
  - (2) TREE REMOVAL IS TO BE CONDUCTED IN ACCORDANCE WITH THE TREE DISPOSITION PLAN BY DARK MOSS (DATED 10/10/2025).
  - (3) TREE REPLACEMENT IS TO BE CONDUCTED IN ACCORDANCE WITH THE LANDSCAPE ARCHITECTURE PLANS (TREE SERIES LT-00 THRU LT-06) BY INNOVATIONS DESIGN GROUP (DATED 02/06/2025).

**OWNER SHALL BE RESPONSIBLE FOR COORDINATION WITH DUKE ENERGY FOR THE REMOVAL OR RELOCATION OF ANY POWER POLES OR OVERHEAD ELECTRIC REQUIRED PRIOR TO OR DURING CONSTRUCTION.**

CAUTION SHALL BE TAKEN WHILE WORKING AROUND THE OVERHEAD WIRES PRESENT

EXISTING CONDITIONS AND DEMOLITION PLAN  
AVENTON LITTLE MULTIFAMILY  
PASCO COUNTY, FLORIDA

**REGENCY**  
Design & Engineering, Inc.  
9400 RIVER CROSSING BOULEVARD, SUITE 102 NEW PORT RICHEY, FLORIDA 34465  
727-375-1155 EXT. 202 - FAX 727-375-1156  
CERTIFICATE OF AUTHORIZATION NO. 285566

REUSE OF DOCUMENT  
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DATE	REV. BY	REV. NO.	REVISION

SHEET  
**3**

**PARCEL I:**

A portion of Tracts 4 and 5, in PORT RICHEY LAND COMPANY subdivision, lying in Section 2, Township 26 South, Range 16 East, according to the plat recorded in Plat Book 1, Pages 60 and 61 of the Public Records of Pasco County, Florida, being more particularly described as follows:

Commence at the Northwest corner of the Northeast 1/4 of said Section 2; thence along the North line of the Northeast 1/4 of Section 2, South 89°25'16" East for a distance of 500 feet to the POINT OF BEGINNING; thence continue along the North line of the Northeast 1/4 of Section 2, South 89°25'16" East for a distance of 646.51 feet; thence South 00°09'08" East for a distance of 650.28 feet to the South line of said Tract 4; thence along the South line of said Tracts 4 and 5 North 89°41'13" West for a distance of 654.81 feet (calculated); thence North 00°34'44" East for a distance of 653.27 feet to the POINT OF BEGINNING; Excluding the North 15 feet thereof for road right of way and excluding the South 35 feet of the North 50 feet thereof.

Subject to a slope easement as set forth in that certain Order of Taking recorded in Official Records Book 3076, Page 108, as amended in by Amended Order of Taking recorded in Official Records Book 3103, Page 738, Public Records of Pasco County, Florida.

ALSO Less and Except the property described in that certain Quit Claim Deed in Official Records Book 6557, Page 107, Public Records of Pasco County, Florida being more particularly described as follows:

A portion of Tracts 4 & 5, Port Richey Land Company Subdivision of Section 2, Township 26 South, Range 16 East, as shown on the plat recorded in Plat Book 1, Pages 60 and 61, of the Public Records of Pasco County, Florida, being further described as follows: Commence at the Northwest corner of the Northeast 1/4 of said Section 2, thence run along the North boundary line of the Northeast 1/4 of said Section 2, South 89°25'16" East, a distance of 500.00 feet; thence South 00°34'44" West, a distance of 50.00 feet to the South right-of-way line of Decubellis Road as now established; thence along said South right-of-way line, South 89°25'16" East, a distance of 497.50 feet to the point of beginning; thence continue along said South right-of-way line, South 89°25'16" East, a distance of 149.65 feet; thence South 00°09'08" East, a distance of 600.28 feet; thence North 89°41'15" West, a distance of 654.82 feet; thence North 00°34'44" East, a distance of 268.76 feet; thence South 89°25'16" East, a distance of 501.78 feet; thence North 00°09'08" West, a distance of 334.54 feet to the point of beginning.

**PARCEL II:**

A portion of Tracts 4 & 5, Port Richey Land Company Subdivision of Section 2, Township 26 South, Range 16 East, as shown on the plat recorded in Plat Book 1, Pages 60 & 61, of the public records of Pasco County, Florida, being further described as follows:

Commence at the Northwest corner of the Northeast 1/4 of said Section 2, thence run along the North boundary line of the Northeast 1/4 of said Section 2, South 89°25'16" East, a distance of 500.00 feet; thence South 00°34'44" West, a distance of 50.00 feet to the South right-of-way line of Decubellis Road as now established; thence along said South right-of-way line, South 89°25'16" East, a distance of 497.50 feet to the point of beginning; thence continue along said South right right-of-way line, South 89°25'16" East, a distance of 149.65 feet; thence South 00°09'08" East, a distance of 600.28 feet; thence North 89°41'15" West, a distance of 654.82 feet; thence North 00°34'44" East, a distance of 268.76 feet; thence South 89°25'16" East, a distance of 501.78 feet; thence North 00°09'08" West, a distance of 334.54 feet to the point of beginning.

**PARCEL III:**

A portion of Tracts 2, 3 and 4 of the Port Richey Land Company Subdivision of Section 2, Township 26 South, Range 16 East, as shown on the plat recorded in Plat Book 1 at pages 60 and 61 of the Public Records of Pasco County, Florida, being further described as follows:

COMMENCE at the Northwest corner of the Northeast quarter (NE1/4) of said Section 2; thence run along the North boundary line of said Section 2, South 89°25'16" East, a distance of 1,146.51 feet for a Point of Beginning; thence continue along the North boundary line of said Section 2, South 89°25'16" East, a distance of 747.78 feet; thence parallel with the East boundary line of said Section 2, South 0°09'08" East, a distance of 353.41 feet; thence North 89°33'14" West, a distance of 747.76 feet; thence North 0°09'08" West, a distance of 355.14 feet to the Point of Beginning; the North 15 feet being subject to the original Port Richey Land Company Subdivision road right-of-way.

ALSO SUBJECT to an easement for ingress and egress along the West 30 feet of the above described property hereby reserved by grantors and their assigns; LESS AND EXCEPT that portion for road right of way as set forth in that certain Stipulated Final Judgment recorded in Official Records Book 3101, Page 347, Public Records of Pasco County, Florida being more particularly described as follows:

**PARCEL 119:**

A portion of Tracts 2, 3 and 4 of Port Richey Land Company Subdivision of Section 2, Township 26 South, Range 16 East, as shown on the plat recorded in Plat Book 1, Pages 60 and 61 of the Public Records of Pasco County, Florida, being further described as follows:

Commence at North ¼ corner of said Section 2; thence along the North boundary line of the Northeast 1/4 of said Section 2, South 89°29'36" East, a distance of 1146.51 feet to the West boundary line of the Gene D. Little and Linda Little Parcel as described in Official Records Book 1242, Page 1422 of the Public Records of Pasco County, Florida; thence along the West boundary line of said Gene D. Little and Linda Little Parcel, South 00°13'05" East, a distance of 15.00 feet for a POINT OF BEGINNING; thence South 89°29'36" East, a distance of 747.78 feet to the East boundary line of said Gene D. Little and Linda Little Parcel; thence along the East boundary line of said Gene D. Little and Linda Little Parcel, South 00°13'05", a distance of 85.00 feet; thence North 89°29'36" West, a distance of 245.55 feet; thence North 79°17'22" West, a distance of 254.02 feet; thence North 00°30'24" East, a distance of 5.00 feet; thence North 89°29'36" West, a distance of 252.86 feet; thence to the West boundary line of said Gene D. Little and Linda Little Parcel; thence along the West boundary line of said Gene D. Little and Linda Little Parcel, North 00°13'05" West, a distance of 35.00 feet to the POINT OF BEGINNING.

ALSO LESS AND EXCEPT the property described in that certain Warranty Deed recorded in Official Records Book 3312, Page 1418, Public Records of Pasco County, Florida being more particularly described as follows:

**PARCEL 119.1:**

A portion of Tracts 2 and 3 of Port Richey Land Company Subdivision of Section 2, Township 26 South, Range 16 East, as shown on the plat recorded in Plat Book 1, Pages 60 and 61 of the Public Records of Pasco County, Florida, being further described as follows:

Commence at North 1/4 corner of said Section 2; thence along the North boundary line of the Northeast 1/4 of said Section 2, South 89°29'36" East, a distance of 1894.29 feet to the East boundary line of the Gene D. Little and Linda Little Parcel as described in Official Record Book 1242, Page 1422 of the Public Records of Pasco County, Florida; thence along the East boundary line of said Gene D. Little and Linda Little Parcel, South 00°13'05" East, a distance of 100.01 feet, for a POINT OF BEGINNING; thence continue along the East boundary line of said Gene D. Little and Linda Little Parcel, South 00°13'05" East, a distance of 253.40 feet to the Southeast corner of said Gene D. Little and Linda Little Parcel; thence along the South boundary line of said Gene D. Little and Linda Little Parcel, North 89°37'35" West, a distance of 425.02 feet; thence North 00°13'05" West, a distance of 286.77 feet; thence South 79°17'22" East, a distance of 182.78 feet; thence South 89°29'36" East, a distance of 245.55 feet, to the POINT OF BEGINNING.

**PARCEL IV:**

The East one-half of the following described parcel:

A portion of Tract 3 and 4 of the Port Richey Land Company Subdivision of Section 2, Township 26 South, Range 16 East, as shown on the plat recorded in Plat Book 1 at Pages 60 and 61 of the Public Records of Pasco County, Florida, being further described as follows: Commence at the Northwest corner of the Northeast quarter of said Section 2, Township 26 South, Range 16 East; thence run along the North boundary line of said Section 2, South 89 degrees 25'16" East a distance of 1,146.51 feet; thence South 00 degrees 09'08" East a distance of 502.72 feet to the point of beginning; thence South 89 degrees 37'17" East a distance of 322.68 feet; thence South 00 degrees 09'08" East a distance of 147.20 feet; thence North 89 degrees 41'13" West a distance of 322.66 feet; thence North 00 degrees 09'08" West a distance of 147.57 feet to the point of beginning.

And

The West one-half of the following described parcel:

A portion of Tract 3 and 4 of the Port Richey Land Company Subdivision of Section 2, Township 26 South, Range 16 East, as shown on the plat recorded in Plat Book 1 at Pages 60 and 61 of the Public Records of Pasco County, Florida, being further described as follows: Commence at the Northwest corner of the Northeast quarter of said Section 2, Township 26 South, Range 16 East; thence run along the North boundary line of said Section 2, South 89 degrees 25'16" East a distance of 1,146.51 feet; thence South 00 degrees 09'08" East a distance of 502.72 feet to the point of beginning; thence South 89 degrees 37'17" East a distance of 322.68 feet; thence South 00 degrees 09'08" East a distance of 147.20 feet; thence North 89 degrees 41'13" West a distance of 322.66 feet; thence North 00 degrees 09'08" West a distance of 147.57 feet to the point of beginning. Together with an easement for ingress and egress over and across the West 30 feet of the following described parcel: A portion of Tract 3 and 4 of the Port Richey Land Company Subdivision of Section 2, Township 26 South, Range 16 East, as shown on plat recorded in Plat Book 1, Pages 60 and 61 of the Public Records of Pasco County, Florida, being further described as follows:

Commence at the Northwest corner of the Northeast quarter of said Section 2, Township 26 South, Range 16 East; thence run along the North boundary line of said Section 2, South 89 degrees 25'16" East a distance of 1,146.51 feet; thence South 00 degrees 09'08" East a distance of 355.14 feet to the point of beginning; thence South 89 degrees 33'14" East a distance of 322.70 feet; thence South 00 degrees 09'08" East a distance of 147.20 feet; thence North 89 degrees 37'17" West a distance of 322.68 feet; thence North 00 degrees 09'08" West a distance of 147.57 feet to the point of beginning. The West 30.00 feet thereof being subject to an easement for ingress and egress.

**PARCEL V:**

A portion of Tracts 2, 3 and 4 of the Port Richey Land Company Subdivision of Section 2, Township 26 South, Range 16 East, as shown on the plat recorded in Plat Book 1 at Pages 60 and 61 of the Public Records of Pasco County, Florida, being further described as follows:

COMMENCE at the Northwest corner of the Northeast quarter (NE 1/4) of said Section 2; thence run along the North boundary line of said Section 2, South 89° 25' 16" East, a distance of 1,146.51 feet; thence parallel with the East boundary Line of said Section 2, South 0° 09' 08" East, a distance of 355.14 feet for a Point of Beginning; thence South 89° 33' 14" East, a distance of 747.76 feet; thence South 0° 09' 08" East, a distance of 293.41 feet to the South boundary line of said Tract 2; thence along the South boundary line of said Tracts 2, 3 and 4, North 89° 41' 13" West, a distance of 747.74 feet; thence North 0° 09' 08" West, a distance of 295.14 feet to the Point of Beginning; TOGETHER with an EASEMENT for ingress and egress along the West 30 feet of the adjacent following described property;

COMMENCE at the Northwest corner of the Northeast quarter (NE 1/4) of said Section 2; thence run along the North boundary line of said Section 2, South 89° 25' 16" East, a distance of 1,146.51 feet for a Point of Beginning; thence continue along the North boundary line of said Section 2, South 89° 25' 16" East, a distance of 747.78 feet; thence parallel with the East boundary line of said Section 2, South 0° 09' 08" East, a distance of 353.41 feet; thence North 89° 33' 14" West, a distance of 747.76 feet; thence North 0° 09' 08" West, a distance of 355.14 feet to the Point of Beginning.

LESS AND EXCEPT: Exhibit "B" referenced in Warranty Deed recorded in O.R. Book 5678 Page 1737, Pasco County, Florida and described as follows:

The East one-half of the following described parcel:

A portion of Tract 3 and 4 of the Port Richey Land Company Subdivision 2, Township 26 South, Range 16 East, as shown on the plat recorded in Plat Book 1 at Pages 60 and 61 of the Public Records of Pasco County, Florida, being further described as follows: Commence at the Northwest corner of the Northeast quarter of said Section 2, Township 26 South, Range 16 East; thence run along the North boundary line of said Section 2, South 89 degrees 25'16" East a distance of 1,146.51 feet; thence South 00 degrees 09'08" East a distance of 502.72 feet to the point of beginning;

thence South 89 degrees 37'17" East a distance of 322.68 feet; thence South 00 degrees 09'08" East a distance of 147.20 feet; thence North 89 degrees 41'13" West a distance of 322.66 feet; thence North 00 degrees 09'08" West a distance of 147.57 feet to the point of beginning.

And Less and Except: Exhibit "C" referenced in Warranty Deed recorded in O.R. Book 3312 page 1415, Pasco County, Florida and described as follows:

**PARCEL 127:**

A portion of Tracts 2 and 3 of Port Richey Land Company Subdivision of Section 2, Township 26 South, Range 16 East, as shown on the plat recorded in Plat Book 1, Pages 60 and 61 of the Public Records of Pasco County, Florida, being further described as follows:

Commence at North 1/4 corner of said Section 2; thence along the North boundary line of the Northeast 1/4 of said Section 2, South 89°29'36" East, a distance of 1894.29 feet to the East boundary line of the Gene D. Little and Linda Little Parcel as described in Official Record Book 1242, Page 1422 of the Public Records of Pasco County, Florida; thence along the East boundary line of said Gene D. Little and Linda Little Parcel, South 00°13'05" East, a distance of 353.40 feet to the Northeast corner of the Terry W. Little and Kathy Little Parcel as described in Official Record Book 1242, Page 1423 of the Public Records of Pasco County, Florida, for a POINT OF BEGINNING; thence along the East boundary line of said Terry W. Little and Kathy Little Parcel, South 00°13'05" East, a distance of 293.15 feet to the Southeast corner of said Terry W. Little and Kathy Little Parcel; thence along the South boundary line of said Terry W. Little and Kathy Little Parcel, North 89°45'21" West, a distance of 425.01 feet; thence North 00°13'05" West, a distance of 294.11 feet to the North boundary line of said Terry W. Little and Kathy Little Parcel; thence along the North boundary line of said Terry W. Little and Kathy Little Parcel, South 89°37'35" East, a distance of 425.02 feet, to the POINT OF BEGINNING.

ALSO LESS AND EXCEPT the property described in that certain Warranty Deed recorded in Official Records Book 5690, Page 1750, Public Records of Pasco County, Florida being more particularly described as follows: The West one-half of the following described parcel:

A portion of Tract 3 and 4 of the Port Richey Land Company Subdivision of Section 2, Township 26 South, Range 16 East, as shown on the plat recorded in Plat Book 1 at Pages 60 and 61 of the Public Records of Pasco County, Florida, being further described as follows: Commence at the Northwest corner of the Northeast quarter of said Section 2, Township 26 South, Range 16 East; thence run along the North boundary line of said Section 2, South 89 degrees 25'16" East a distance of 1,146.51 feet; thence South 00 degrees 09'08" East a distance of 502.72 feet to the point of beginning; thence South 89 degrees 37'17" East a distance of 322.68 feet; thence South 00 degrees 09'08" East a distance of 147.20 feet; thence North 89 degrees 41'13" West a distance of 322.66 feet; thence North 00 degrees 09'08" West a distance of 147.57 feet to the point of beginning.

Together with beneficial easement rights as contained in that certain Non-exclusive vehicular and pedestrian access easement recorded \_\_\_\_\_, 2025 in Book \_\_\_\_\_, Page \_\_\_\_\_, Public Records of Pasco County, Florida.

**SURVEYOR'S NOTES:**

- EASEMENTS, ENCUMBRANCES, RIGHTS-OF-WAYS, RESERVATIONS, AGREEMENTS AND OTHER SIMILAR MATTERS TAKEN FROM FIRST AMERICAN TITLE INSURANCE COMPANY, COMMITMENT FOR TITLE INSURANCE NO. 110660360, BEARING AN EFFECTIVE DATE OF MARCH 26, 2025.
- THIS SURVEY IS LIMITED TO ABOVE GROUND VISIBLE IMPROVEMENTS ALONG AND NEAR THE BOUNDARY LINES, EXCEPT AS SHOWN HEREON, AND THAT NOTHING BELOW THE GROUND WAS LOCATED INCLUDING, BUT NOT LIMITED TO FOUNDATIONS (FOOTINGS), UTILITIES, ETC.
- BEARINGS SHOWN HEREON ARE BASED ON THE SOUTH RIGHT-OF-WAY OF DECUBELLIS RD, HAVING A GRID BEARING OF S.89°29'06"E. THE GRID BEARINGS AS SHOWN HEREON REFER TO THE STATE PLANE COORDINATE SYSTEM, NORTH AMERICA HORIZONTAL DATUM OF 1983 (NAD 83-2011 ADJUSTMENT) FOR THE WEST ZONE OF FLORIDA.
- THIS SURVEY IS INTENDED TO BE DISPLAYED AT 1" = 60' OR SMALLER ON SHEET 2 AND 1" = 20' OR SMALLER ON SHEETS 3-7.
- ALL BOUNDARY LINE DIMENSIONS ARE FIELD MEASURED UNLESS OTHERWISE NOTED.
- ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
- THE SUBJECT PROPERTY LIES IN FLOOD ZONE "X", ACCORDING TO FLOOD INSURANCE RATE MAP, MAP NO. 12101C0193F FOR PASCO COUNTY UNINCORPORATED AREAS, COMMUNITY NO. 120230, PASCO COUNTY, FLORIDA, DATED 9/26/14 AND ISSUED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY. LINES SHOWN HAVE BEEN DIGITALLY TRANSLATED FROM FDPM DATABASE INFORMATION SUPPLIED BY THE FEMA MAP SERVICE CENTER HTTPS://MSC.FEMA.GOV.
- PARCELS SHOWN HEREON, ARE CONTIGUOUS ALONG THEIR COMMON BOUNDARIES WITHOUT GAP, GORE, HIATUS, OR OVERLAP.
- USE OF THIS SURVEY FOR PURPOSES OTHER THAN INTENDED, WITHOUT WRITTEN VERIFICATION, WILL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO THE SURVEYOR. NOTHING HEREON SHALL BE CONSTRUED TO GIVE ANY RIGHTS OR BENEFITS TO ANYONE OTHER THAN THOSE CERTIFIED TO.
- ON THIS DRAWING, CERTIFY MEANS TO STATE OR DECLARE A PROFESSIONAL OPINION OF CONDITIONS REGARDING THOSE FINDINGS OR FACTS WHICH ARE THE SUBJECT OF THE CERTIFICATION AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE, EITHER IMPLIED OR EXPRESSED. THIS CERTIFICATION IS ONLY FOR THE LANDS AS DESCRIBED. THIS CERTIFICATION IS NOT A CERTIFICATE OF TITLE, EASEMENTS, ZONING OR FREEDOM OF ENCUMBRANCES.
- THE LANDS DESCRIBED HEREON MAY CONTAIN LANDS THAT ARE CONSIDERED ENVIRONMENTALLY SENSITIVE WETLANDS THAT ARE SUBJECT TO CLAIM OR RESTRICTION BY ONE OR MORE OF THE FOLLOWING AGENCIES: ARMY CORP. OF ENGINEERS, SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (S.W.F.W.M.D.), OR DEPARTMENT OF ENVIRONMENTAL PROTECTION (D.E.P.). WETLAND LINES AND AREAS, IF ANY, ARE NOT SHOWN HEREON.
- UNDERGROUND UTILITIES SHOWN HEREON MAY BE BASED SOLELY OR IN PART ON THE FOLLOWING: MARKINGS PROVIDED BY UTILITY COMPANIES; PLANS REQUESTED FROM UTILITY PROVIDERS; OBSERVED ABOVE GROUND EVIDENCE AND REMOTE SENSING MEASUREMENTS TAKEN BY THE SURVEYOR. ALL EVIDENCE OF UNDERGROUND UTILITIES MADE AVAILABLE TO THE SURVEYOR ARE SHOWN HEREON. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED. WHERE ADDITIONAL OR MORE DETAILED INFORMATION IS REQUIRED, THE USER OF THIS SURVEY IS ADVISED THAT EXCAVATION AND/OR A PRIVATE UTILITY LOCATE REQUEST MAY BE NECESSARY. DUE TO LIMITATIONS OUTSIDE THE SURVEYOR'S CONTROL, UNDERGROUND INFRASTRUCTURE OR UTILITIES MAY EXIST WITHIN OR NEAR THE SUBJECT PROPERTY THAT ARE NOT DEPICTED HEREON.
- IT IS HEREBY CERTIFIED THAT A SURVEY OF THE HEREON DESCRIBED PROPERTY WAS MADE UNDER MY SUPERVISION AND MEETS THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER SJ-17.060 FAC, PURSUANT TO SECTION 472.027, FS.
- ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), BASED ON NATIONAL GEODETIC SURVEY BENCHMARK "Q677", HAVING A PUBLISHED ELEVATION OF 34.42 FEET (NAVD 88).
- NO VISIBLE EVIDENCE OF GRAVE SITES, BURIAL GROUNDS OR CEMETERIES ON SUBJECT PROPERTY.
- NO OBSERVED EVIDENCE OF SUBSTANTIAL AREAS OF REFUSE LOCATED ON THE PROPERTY.
- THE SUBJECT PROPERTY HAS DIRECT ACCESS TO AND IS CONTIGUOUS WITH DECUBELLIS ROAD, BEING DEDICATED PUBLIC STREETS OR HIGHWAY WITH NO GAPS, GORES OR OVERLAPS.
- PER TABLE A ITEM NO. 16, NO EVIDENCE OF RECENT EARTH MOVING WORK, BUILDING CONSTRUCTION, OR BUILDING ADDITIONS WAS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.
- PER TABLE A ITEM NO. 17, NO APPARENT CHANGES IN STREET RIGHT OF WAY LINES EITHER COMPLETED OR PROPOSED, AND AVAILABLE FROM THE CONTROLLING JURISDICTION.
- PER TABLE A ITEM NO. 18, NO OFFSITE EASEMENTS KNOWN TO THE SURVEYOR.

TYPE OF SURVEY: BOUNDARY & TOPOGRAPHIC  
DATE OF SURVEY: MAY 15, 2025

CERTIFIED TO: REGENCY DESIGN

PLAT DATE/TIME: Monday, February 06, 2028 @ 1:02:48 AM  
C:\Users\Project3172\Documents\Surveying\1223\2025 - Section Little Road Design and Permitting\02\Survey\02\05\_LEGAL.dwg

LEGAL DESCRIPTION & SURVEYOR'S NOTES		AVENTON LITTLE MULTIFAMILY PASCO COUNTY, FLORIDA	
<small>EXAMINED UNLESS SPECIALLY NOTED &amp; SIGNED BY REGISTERED PROFESSIONAL SURVEYOR</small> <small>JAMES P. GRAYSON, P.E. # 93132</small>			
 <small>9400 RIVER CROSSING BOULEVARD, SUITE 102 NEW PORT RICHEY, FLORIDA 34665 727-375-1155 EXT. 202 - FAX 727-375-1156 CERTIFICATE OF AUTHORIZATION NO. 285566</small>			
<small>REUSE OF DOCUMENT FOR THIS PROJECT IS LIMITED TO THE INCORPORATED IDEAS AND DESIGNS AS AN INSTRUMENT OF SERVICE FOR THE PROJECT AND NOT FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF REGENCY DESIGN &amp; ENGINEERING</small>			
DATE	REVISION	RESPONSE TO RD. 1 COUNTY COMMENTS	RESPONSE TO RD. 1 PCU COMMENTS
1/23/2025		1	2
SHEET			
4			

## GENERAL CONSTRUCTION NOTES

- THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION IN ACCORDANCE WITH THE LINES AND GRADES SHOWN ON THE PLANS AND TO TOLERANCES STATED HEREIN OR IN THE SPECIFICATIONS. REFER TO THE BOUNDARY AND TOPOGRAPHIC SURVEY FOR ADDITIONAL INFORMATION ON HORIZONTAL AND VERTICAL CONTROL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL HORIZONTAL AND VERTICAL CONTROL MARKERS AND PROPERTY CORNERS (MONUMENTS, PIPES, ETC.) FOR THE DURATION OF CONSTRUCTION. MARKERS SHALL BE CONTINUOUSLY FLAGGED AND SHALL BE RESET IMMEDIATELY BY A FLORIDA LICENSED LAND SURVEYOR IF ANY SHOULD BECOME DISTURBED.
- LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE DRAWINGS AND DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, ETC. AFFECTING HIS WORK PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL SATISFY HIMSELF AS TO POSSIBLE INCIDENTAL CONFLICTS WITH EXISTING STRUCTURES SUCH AS MAIL BOXES, SIGNS, FENCES, BILLBOARDS, ETC. AND SHALL INCLUDE IN HIS OVERALL COSTS THE REMOVAL AND OR REPLACEMENT AND PROTECTION OF SUCH INCIDENTAL ITEMS.
- THE CONTRACTOR, PRIOR TO BIDDING THIS WORK, SHALL APPRAISE HIMSELF AS TO ALL ABOVE-GROUND FEATURES, AND TO THE EXTENT POSSIBLE WITHOUT EXCAVATING, BELOW-GROUND FEATURES, THAT HE MAY ENCOUNTER DURING CONSTRUCTION AND INCLUDE INTO HIS OVERALL BID ALL COSTS FOR SPECIFIC CONSTRUCTION METHODS AND PROCEDURES THAT NEED TO BE TAKEN TO WORK AROUND SUCH APPURTENANCES.
- THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, DRIVEWAYS, SIDEWALKS, RETAINING WALLS, MAIL BOXES, SOD, LANDSCAPING, ETC. REMOVED OR DAMAGED DURING CONSTRUCTION WITH THE SAME MATERIAL REMOVED OR DAMAGED AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PROCEEDING WITH ANY SITE WORK WITH WHICH A CONFLICT HAS ARISEN DURING CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS.
- CONSTRUCTION SHALL BE CARRIED OUT "IN THE DRY". THE CONTRACTOR SHALL REVIEW SITE CONDITIONS AND DETERMINE METHODS AND EXTENT OF DEWATERING NECESSARY AND SHALL INCLUDE COSTS OF DEWATERING IN THE BID. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR CONTROL OF GROUND OR SURFACE WATER OR FOR ADDITIONAL MATERIALS OR REWORK REQUIRED AS A RESULT OF INADEQUATE OR INSUFFICIENT DEWATERING.
- ALL WORK TO BE PERFORMED FOR THE COMPLETION OF THIS PROJECT SHALL BE CONSTRUCTED ACCORDING TO THE BEST PRACTICES OF THE INDUSTRY AND IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, COUNTY AND/OR COUNTY CODES, ORDINANCES, STANDARDS AND PERMIT CONDITIONS.
- ALL AREAS DISTURBED BY THIS CONSTRUCTION SHALL BE SEEDED AND MULCHED EXCEPT AS NOTED BELOW: ALL AREAS WITH SLOPES GREATER THAN 4:1 OR WITHIN 2' OF ANY PAVEMENT OR CURB SHALL BE SODDED. ALL AREAS WITHIN 5' OF ANY DRAINAGE STRUCTURE OR WITHIN FOOT OF COUNTY R/W SHALL BE SODDED.
- ALL AREAS DISTURBED WITHIN EXISTING COUNTY AND FOOT RIGHTS-OF-WAY SHALL BE SODDED UNLESS OTHERWISE NOTED. ALL LANDSCAPING WITHIN RIGHT-OF-WAY SHALL CONFORM TO PASCO COUNTY AND F.D.O.T. STANDARDS.
- THE CONTRACTOR SHALL PROVIDE FOR SAFE AND EFFICIENT MAINTENANCE OF TRAFFIC, INCLUDING PEDESTRIANS, VIA ADHERENCE TO THE F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARD INCLUDES 600-480 (LATEST ED.), THE U.S.D.O.T. MANUAL OF UNIFORM TRAFFIC DEVICES (MUTCD), AND THE REQUIREMENTS OF PASCO COUNTY.
- ALL DIMENSIONS SHOWN, WHERE CURB IS APPLICABLE, ARE TO THE FACE OF CURB. PIPE LENGTHS SHOWN, WHERE MITERED ENDS ARE CALLED FOR, INCLUDE IN THE PIPE LENGTH PLUS THE LENGTH OF THE MITERED END SECTION PIPE.

## ROAD, DRAINAGE AND GRADING CONSTRUCTION NOTES

- ALL PAVEMENT AREAS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE LATEST EDITION OF THE FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. IMPROVEMENTS WITHIN PUBLIC RIGHTS-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE OR PASCO COUNTY DEPARTMENT HAVING JURISDICTION OVER THE ROAD.
- PAVEMENT AND GRADING SHALL BE SLOPED TO THE PROPOSED ELEVATIONS AND CONTOURS SHOWN ON THE DRAWINGS. SMOOTH, CONSTANT SLOPES SHALL BE MAINTAINED BETWEEN PROPOSED ELEVATIONS AND CONTOURS. PROPOSED CONTOUR ELEVATIONS, SPOT ELEVATIONS AND FINISHED GRADE ELEVATIONS IN NON-PAVED AREAS REFER TO FINISHED SURFACE ELEVATION ONCE SODDING OR SEEDING IS COMPLETE.
- FINISHED GRADE ADJACENT TO BUILDING WALLS SHALL BE 4-INCHES BELOW FINISHED FLOOR WITH A MINIMUM OF 2 PERCENT DOWNWARD SLOPE AWAY FROM BUILDING. FINISHED GRADES ADJACENT TO WALLS, CURBS OR SLABS SHALL BE 2-INCHES BELOW ADJACENT SURFACE FOR DRAINAGE AWAY OR FLUSH WITH SURFACE FOR DRAINAGE TOWARD PAVEMENT OR CURB.
- ALL STORM SEWER PIPES SHALL BE CLASS III REINFORCED CONCRETE PIPE (RCP) (ASTM C-76) UNLESS OTHERWISE NOTED AND INSTALLED AT THE LOCATIONS AND GRADES SHOWN ON THE DRAWINGS. PRECAST INLETS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE FOOT ROADWAY AND TRAFFIC DESIGN STANDARDS. ALL CROSS DRAINS SHALL BE STEEL REINFORCED CONCRETE PIPE (SRCP) NO EXCEPTION.
- STRIPING, SIGNS, POSTS AND HARDWARE SHALL BE CERTIFIED BY FDOT AND INSTALLED IN ACCORDANCE WITH FDOT SPECIFICATIONS AND MUTCD OR GOVERNING AUTHORITY HAVING JURISDICTION OVER ROADS.
- THE SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRIOR TO CONSTRUCTION, MAINTAINED THROUGHOUT CONSTRUCTION AND UNTIL THE SITE IS PERMANENTLY STABILIZED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT AND MAINTAIN THE WATER RETENTION SYSTEM ON A REGULAR BASIS.
- ALL SODDED SLOPES OVER 4:1 SHALL IN INSTALLED WITH SOD PEGS.
- ALL FINISHED FLOOR ELEVATIONS SHALL BE A MINIMUM OF 1-FOOT ABOVE THE BASE FLOOD ELEVATION, OR AS REQUIRED BY THE LAND DEVELOPMENT CODE SECTION 902.
- ANY OFF SITE DISTURBANCE SHALL BE RESTORED TO THE PRE-DEVELOPMENT CONDITION OR BETTER.
- ALL DRAINAGE AND MAINTENANCE EASEMENTS MUST CONTAIN CLEAR OPERABLE ACCESSIBILITY.

## GEOTECHNICAL NOTES:

THE FOLLOWING GEOTECHNICAL RECOMMENDATIONS WERE PROVIDED BY UES, AND ARE DOCUMENTED IN THEIR REPORT DATED 5/30/2025:

### PAVEMENT SITE PREPARATION

- IF REQUIRED, PERFORM REMEDIAL DEWATERING PRIOR TO ANY EARTHWORK OPERATIONS. WE RECOMMEND TEMPORARY DEWATERING TO REDUCE THE LIKELIHOOD OF PUMPING OF THE SHALLOW SUBGRADE SOILS DURING NORMAL CONSTRUCTION OPERATIONS. MAINTAIN GROUNDWATER LEVELS AT LEAST 24 INCHES BELOW THE LOWEST ANTICIPATED CUT AND/OR ALL COMPACTION SURFACES.
- STRIP THE PROPOSED CONSTRUCTION LIMITS OF ALL GRASS, ROOTS, TOPSOIL, CONSTRUCTION DEBRIS, AND OTHER DELETERIOUS MATERIALS WITHIN AND 5' FEET BEYOND THE PERIMETER OF THE PROPOSED BUILDING AND IN ALL PAVED AREAS. EXPECT CLEARING AND GRUBBING TO DEPTHS OF 6 INCHES, ON AVERAGE. DEEPER CLEARING AND GRUBBING DEPTHS MAY BE REQUIRED WHERE MAJOR ROOT SYSTEMS ARE ENCOUNTERED.
- PROOF-ROLL THE SUBGRADE WITH A HEAVILY LOADED, RUBBER-TIRED VEHICLE UNDER THE OBSERVATION OF A UES GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE. PROOF-ROLLING WILL HELP LOCATE ANY ZONES OF ESPECIALLY LOOSE OR SOFT SOILS NOT ENCOUNTERED IN THE SOIL TEST BORINGS. THEN UNDERCUT, OR OTHERWISE TREAT THESE ZONES AS RECOMMENDED BY THE ENGINEER.
- PRIOR TO ANY FILLING OF THE SITE, PROOF-COMPACT THE SUBGRADE FROM THE SURFACE USING SUITABLE COMPACTION EQUIPMENT, UNTIL YOU OBTAIN A MINIMUM DENSITY OF 95% MPMDD TO A DEPTH OF 2 FEET BELOW STRIPPED GRADE. IN ORDER TO ACHIEVE THE REQUIRED DEGREE OF COMPACTION, THE SOILS MAY NEED TO BE MOISTURE CONDITIONED UNTIL THE IN-SITU WATER CONTENT IS WITHIN +/- 2% OF THE OPTIMUM MOISTURE CONTENT (OMC).
- TEST THE SUBGRADE FOR COMPACTION AT A FREQUENCY OF NOT LESS THAN ONE TEST PER 2,500 SQUARE FEET PER FOOT OF DEPTH IMPROVEMENT IN THE BUILDING AREAS. IN PAVED AREAS, PERFORM COMPLIANCE TESTS ON THE STABILIZED SUBGRADE FOR FULL DEPTH AT A FREQUENCY OF ONE TEST PER 10,000 SQUARE FEET, OR AT A MINIMUM OF TWO TEST LOCATIONS, WHICHEVER IS GREATER.
- PLACE FILL MATERIAL, AS REQUIRED. THE FILL SHOULD CONSIST OF FINE TO MEDIUM SAND WITH LESS THAN 5 PERCENT SOIL FINES. YOU MAY USE FILL MATERIALS WITH SOIL FINES BETWEEN 5 AND 12 PERCENT, BUT STRICT MOISTURE CONTROL MAY BE REQUIRED. PLACE FILL IN UNIFORM 10 TO 12 INCH LOOSE LIFTS AND COMPACT EACH LIFT TO A MINIMUM DENSITY OF 95% MPMDD AT A MOISTURE CONTENT OF +/- 2% OF OMC. IN PAVED AREAS, THE STABILIZED SUBGRADE MATERIALS IMMEDIATELY BENEATH THE BASE COURSE SHOULD BE COMPACTED TO AT LEAST 98% MPMDD.
- FILL MATERIAL WITH SOIL FINES UP TO 35 PERCENT MAY BE UTILIZED, HOWEVER THESE SOILS WILL BE SENSITIVE TO EVEN SLIGHT CHANGES IN MOISTURE CONTENT AND MAY PROVE DIFFICULT TO COMPACT IN THE IN-SITU MOISTURE CONTENTS ARE GREATER THAN ABOUT 2 PERCENT ABOVE OR BELOW THE OPTIMUM MOISTURE CONTENT. THESE SOILS WILL NEED TO BE PLACED IN 6-INCH LOOSE LIFTS. SPECIALTY EQUIPMENT SUCH AS SHEEP'S FOOT ROLLERS WILL BE REQUIRED TO ACHIEVE PROPER COMPACTION. DISKING WILL ALSO BE USEFUL TO BREAKDOWN LARGER CLOUDS OF CLAYEY SOILS. THE PLACEMENT AND COMPACTION OF MOISTURE SENSITIVE SOILS OF THIS TYPE WILL REQUIRE TIME AND EFFORT BEYOND THAT TYPICALLY ASSOCIATED WITH SANDY SOILS. A GRADING CONTRACTOR EXPERIENCED WITH PLACING AND COMPACTION OF CLAYEY SOILS CAN LIKELY REDUCE COSTLY PROJECT DELAYS DUE TO SOIL CONDITIONS.
- PERFORM COMPLIANCE TESTS WITHIN THE FILL AT A FREQUENCY OF NOT LESS THAN ONE TEST PER 2,500 SQUARE FEET PER LIFT IN THE BUILDING AREAS, OR AT A MINIMUM OF TWO TEST LOCATIONS, WHICHEVER IS GREATER. IN PAVED AREAS, PERFORM COMPLIANCE TESTS AT A FREQUENCY OF NOT LESS THAN ONE TEST PER 10,000 SQUARE FEET PER LIFT, OR AT A MINIMUM OF TWO TEST LOCATIONS, WHICHEVER IS GREATER.
- TEST ALL FINAL FOOTING CUTS FOR COMPACTION TO A DEPTH OF 3 FEET. ADDITIONALLY, WE RECOMMEND YOU TEST ONE OUT OF EVERY FOUR COLUMN FOOTINGS, AND THAT YOU COMPLETE AT LEAST ONE TEST PER EVERY 50 LINEAL FEET OF WALL FOOTING.

## ENVIRONMENTAL PROTECTION NOTES

- CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED IN WETLAND AREAS UNLESS SUCH CONSTRUCTION PRACTICES ARE APPROVED IN A PLAN OF OPERATION SUBMITTED TO THE ENGINEER & THE APPROPRIATE REGULATORY AUTHORITIES. WHERE CONSTRUCTION IS NECESSARY ACROSS OR ADJACENT TO WETLAND JURISDICTIONAL AREAS, SILT BARRIERS SHALL BE INSTALLED AS SHOWN ON THE PLANS. SILT BARRIERS SHALL BE CONSIDERED LIMITS OF CONSTRUCTION WITHIN OR ADJACENT TO JURISDICTIONAL AREAS.
- CONSTRUCTION SHALL PROCEED SUCH THAT ALL STORM WATER FACILITIES WITHIN A WATERSHED AREA ARE IN PLACE AND OPERATIONAL PRIOR TO CONSTRUCTION OF IMPERVIOUS SURFACES WITHIN THAT AREA.
- STAKED OR FLOATING SILT SCREENS OR HAY BALES, AS APPROPRIATE, SHALL BE UTILIZED AS SILT BARRIERS AND PLACED IN LOCATIONS SHOWN ON THE PLANS AND AT OTHER LOCATIONS AS REQUIRED TO KEEP SEDIMENT FROM REACHING WATER BODIES OR WETLAND AREAS. THESE BARRIERS SHALL BE INSTALLED PRIOR TO COMMENCING WITH ANY CONSTRUCTION WITHIN OR ADJACENT TO JURISDICTIONAL AREAS. THE CONTRACTOR SHALL MONITOR AND MAINTAIN ALL SILT BARRIERS INCLUDING DAILY INSPECTIONS TO CHECK THEIR INTEGRITY. ANY LOOSE OR DAMAGED SILT BARRIERS SHALL BE IMMEDIATELY REPAIRED OR REPLACED, AS NECESSARY. ONCE CONSTRUCTION IS COMPLETE AND FINISH GRADING / STABILIZATION HAS BEEN ACHIEVED, SILT BARRIERS SHALL BE COMPLETELY REMOVED TO THE SATISFACTION OF THE OWNER AND PRIOR TO FINAL ACCEPTANCE.
- ALL FUGITIVE DUST SHALL BE CONTROLLED ON SITE. ONLY AREAS SCHEDULED FOR IMMEDIATE CONSTRUCTION SHALL BE CLEARED OR STRIPPED OF VEGETATION. WATERING, APPLICATION OF APS 605 SILT STOP OR OTHER PRIOR APPROVED MEANS OF DUST CONTROL SHALL BE EMPLOYED TO PREVENT THE EMANATION OF DUST FROM THE SITE. PERMANENT GRASSING, LANDSCAPING AND OTHER SITE WORK SHALL BE INITIATED AS SOON AS POSSIBLE.
- ALL WATER COLLECTED AND PUMPED DURING TRENCH DEWATERING ACTIVITIES SHALL BE DISPOSED OF IN ON-SITE UPLAND AREAS INTO DOUBLE STAKED HAY BALES. DISCHARGE LOCATIONS SHALL BE A MINIMUM OF 75 FEET FROM THE NEAREST SURFACE WATER BODY OR WETLAND AREA, TO ALLOW FOR MAXIMUM OVERLAND FILTRATION OF SOIL PARTICLES. CONTRACTOR SHALL SUBMIT A DEWATERING PLAN TO THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT FOR APPROVAL PRIOR TO DEWATERING.
- TEMPORARY STOCKPILES SHALL NOT BE LOCATED ADJACENT TO UNDISTURBED WETLANDS. ADDITIONALLY, STOCKPILES TO REMAIN FOR LONGER THAN 24 HOURS SHALL BE CONFINED BY SILT BARRIERS WHICH PREVENT RUNOFF SEDIMENTATION FROM ENCRACHOING UPON WETLAND AREAS OR SURFACE WATER BODIES.
- ALL TRASH AND CONSTRUCTION DEBRIS PRODUCED FROM THIS PROJECT SHALL BE COLLECTED BY THE CONTRACTOR DAILY. THESE MATERIALS SHALL BE STAGED OR CONTAINERIZED AS NECESSARY TO PREVENT ACCIDENTAL RELEASE. DISPOSAL OF SOLID WASTE MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE MUNICIPAL, COUNTY AND STATE REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING PORTABLE SANITARY WASTE UNITS ON-SITE FOR USE BY HIS EMPLOYEES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN CONTROL OF ANY HAZARDOUS MATERIALS UTILIZED ON-SITE FOR CONSTRUCTION. STORAGE CONTAINERS, VEHICLES, ETC. WILL BE INSPECTED REGULARLY FOR LEAKAGE. A SPILL PREVENTION PLAN SHALL BE ESTABLISHED WHICH COVERS CLEANUP AND NOTIFICATION OF APPROPRIATE GOVERNMENT AGENCIES.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING SITE EROSION AND SHALL NOT UNNECESSARILY REMOVE EXISTING VEGETATION OR ALTER EXISTING TOPOGRAPHY. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SOD, HAY BALES, SAND BAGS OR SEED & MULCH, AS NECESSARY, TO ACHIEVE AN EROSION-FREE SITE (FREE FROM RUTTING, ETC.) TO THE LINES AND GRADES SHOWN IN THE PLANS UNTIL FINAL ACCEPTANCE. ALL SWALES AND SURFACES 4:1 OR STEEPER SHALL BE SODDED, ALL OTHER UNPAVED SURFACES WHICH EXPERIENCE UNDUE EROSION THAT CANNOT BE CONTROLLED BY OTHER MEASURES SHALL BE SODDED. ALL SOD SHALL BE ARGENTINE BAHIA UNLESS SPECIFICALLY SHOWN OTHERWISE IN THE CONTRACT DOCUMENTS.
- PRIOR TO THE START OF THE CLEARING OR GRUBBING, OR ANY SOIL DISTURBANCE, CONTACT PASCO COUNTY STORMWATER MANAGEMENT AT (727) 834-3611 FOR A SOIL EROSION AND SEDIMENT CONTROL PRE-INSPECTION MEETING.
- THE CROSS-SLOPE OF THE SHOULDERS SHALL NOT BE STEEPER THAT 0.06 FEET PER FOOT.
- THE SLOPE OF THE AREA WITHIN THE ROADSIDE CLEAR ZONE SHALL NOT BE STEEPER THAN SIX FEET HORIZONTAL TO ONE FOOT VERTICAL (6:1).
- ALL SLOPES WITHIN THE COUNT RIGHT-OF-WAY (OUTSIDE THE CLEAR ZONE) SHALL BE A MINIMUM OF 4:1.

## MINIMUM REQUIRED UTILITY AS-BUILTS

### PASCO COUNTY REQUIREMENTS

UPON THE COMPLETION OF THIS PROJECT, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE COUNTY WITH A COMPLETE SET OF "RECORD DRAWINGS" OF STORM DRAINAGE, UTILITIES, AND OTHER SITE IMPROVEMENTS AS FURTHER HEREIN NOTED. THE CONTRACTOR SHALL MAINTAIN A LEGIBLY MARKED SET OF PLANS, DURING CONSTRUCTION, SHOWING THE ACTUAL CONSTRUCTION, LOCATION, AND LAYOUT OF THE PIPELINES AND APPURTENANCES AS THEY WERE INSTALLED. THE MARKED UP PLAN SHALL SHOW ALL VALVES, TAPS AND FITTINGS USED, PIPE CUTS, DIMENSIONS, MATERIAL TYPES, CLASS, COLOR, PIPE BEDDING MATERIAL, AND INDICATE THE PROXIMITY OF THE INSTALLED PIPELINE TO ANY CROSSING OR OTHER PIPELINE, CONDUIT OR CABLE EXCAVATED DURING INSTALLATION. THE CONTRACTOR SHALL ALSO PROVIDE A SURVEY OF THE PIPELINE SHOWING THE LOCATION AND ELEVATION OF THE TOP OF PIPE AT EACH END AND AT 100 FT. STATIONING IN REFERENCE TO BOTH MEAN SEA LEVEL AND FINISH GRADE. THE SURVEY SHALL BE SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED WITH THE STATE OF FLORIDA. SIX COPIES OF THE AS-BUILTS ARE REQUIRED. FINAL PAYMENT TO THE CONTRACTOR SHALL NOT BE MADE WITHOUT THESE SUBMITTED AND APPROVED BY THE DESIGN ENGINEER.

### ADDITIONAL REQUIREMENTS

- ALL DIMENSIONS SHALL BE IN FEET DIMENSIONED OFF CENTERLINE OF ROADS OR OTHER PERMANENT STRUCTURES. IF ONLY ONE DIMENSION CAN BE TAKEN OFF THE CENTERLINE OF ROAD, THE SECOND SHALL BE OFF A PERMANENT MARKER OR REFERENCE POINT.
- AS-BUILTS SHALL BE SUBMITTED TO THE ENGINEER, SIGNED & SEALED BY A PROFESSIONAL SURVEYOR REGISTERED IN THE STATE OF FLORIDA.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING A RECORD SURVEY(S) PREPARED AND SUBMITTED BY A LICENSED PROFESSIONAL SURVEYOR AND MAPPER INCLUDING, BUT NOT LIMITED TO, LOCATION AND FINISHED GRADE ELEVATIONS IN PAVED AND NON-PAVED AREAS SUFFICIENT TO DETERMINE DIRECTION OF SITE DRAINAGE AND ELEVATIONS OF RETENTION/DETENTION AREAS, MITIGATION AREAS AND DITCH/CHANNEL CONVEYANCES INCLUDING TOPS OF BANKS, TOES OF SLOPES, POND BOTTOMS AND WATER LEVELS; ELEVATIONS AND DIMENSIONS OF POND CONTROL STRUCTURES, SPIELWAYS AND UNDERDRAINS; DRAINAGE STRUCTURE GRATE/INLET/RIM ELEVATIONS; STORM PIPE SIZES, PIPE MATERIALS, AND PIPE INVERTS, PLUS LOCATIONS, DIMENSIONS AND ELEVATIONS OF ALL OTHER CONSTRUCTION COMPONENTS WHICH VARY FROM THE DESIGN. UTILITY INFORMATION SHALL INCLUDE LOCATION OF WATER LINE CONNECTIONS, VALVES, BENDS, METERS AND ELEVATIONS OF PIPES WHERE DEPTH OF COVER VARIES FROM DESIGN; TIES TO SANITARY SEWER LINES, MANHOLE RIM AND INVERT ELEVATIONS, CLEANOUTS AND SERVICE CONNECTIONS; FOUR COPIES OF THE SIGNED AND SEALED RECORD SURVEY AND ONE COPY OF THE SURVEY IN AUTOCAD DIGITAL FORMAT.

### SEWER

- SHOW ACTUAL ELEVATIONS (TOP AND ALL INVERTS) FOR ALL NEW AND EXISTING MANHOLES.
- SHOW ACTUAL GRAVITY SEWER SLOPE PERCENTAGES.
- INDICATE ALL LOCATIONS WHERE SEWER LINE WAS ENCASED OR WHERE DUCTILE IRON WAS UTILIZED.
- SHOW SIZE, SDR, CLASS OR TYPE OF MATERIAL IF DIFFERENT THAN PLANS.
- SHOW LOCATIONS OF ALL SERVICE WYES BY DIMENSION FROM MANHOLES.
- DIMENSION SERVICE LATERAL TERMINATION POINTS AND DEPTH FROM FINISH GRADE.
- FITTINGS, VALVES, TAPS, ETC. SHALL BE DIMENSIONED (SEE NOTE NO. 1 UNDER "GENERAL") USING DESCRIPTIVE NOTES INDICATING THEIR EXACT LOCATION.

### PUMP STATIONS

- SHOW BOTTOM, INFLUENT INVERT AND TOP ELEVATIONS OF WETWELL.
- ACTUAL ELEVATIONS OF BOTTOM OF CONTROL PANEL.
- ELEVATIONS OF LIQUID LEVEL SENSORS FOR PUMP OFF, FIRST AND SECOND PUMPS ON (THIRD IF PROVIDED), AND ALARM ON.
- SHOW ALL WETWELL AND VALVE VAULT PIPING AND VALVE CHANGES.

## GENERAL UTILITY NOTES

- THE CONTRACTOR IS CAUTIONED THAT THE LOCATION OF EXISTING UTILITIES, WHETHER OR NOT SHOWN, ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ACTUAL FIELD LOCATIONS FROM THE RESPECTIVE UTILITY COMPANY AND TO COORDINATE WITH AFFECTED UTILITY COMPANY 48 HOURS BEFORE BEGINNING ANY WORK.  
SUNSHINE STATE ONE CALL 1-800-432-4770  
DUKE ENERGY 1-(866)-372-4663  
CHARTER COMMUNICATIONS 1-(877)-897-7333  
VERIZON 1-(727)-562-1334  
CLEARWATER GAS 1-(727)-628-0763  
PASCO COUNTY UTILITIES 1-(813)-235-6189
- ALL PVC FORCE MAINS, UNLESS SPECIFIED OTHERWISE, SHALL BE AWWA C-909, CLASS 200, AWWA C900, CLASS 150, DR18 PVC WITH AWWA APPROVED DUCTILE IRON MECHANICAL JOINT FITTINGS AND SHALL BE BROWN PIPE (WHITE OR BLACK LETTERING).
- ALL PVC WATER MAINS, UNLESS SPECIFIED OTHERWISE, SHALL BE AWWA C-900, DR 18 PVC WITH AWWA APPROVED DUCTILE IRON MECHANICAL JOINT FITTINGS AND SHALL BE BLUE (WHITE OR BLACK LETTERING).
- SANITARY SEWER (GRAVITY) PIPE SHALL CONFORM TO ASTM 3034 SDR35 PVC BELL AND SPIGOT GASKETED JOINTS FOR DEPTHS LESS THAN 12'. FOR DEPTHS GREATER THAN 12', ASTM 3034, SDR 26.
- ALL PVC PIPE SHALL HAVE LETTERING APPEARING ON THREE SIDES OF THE PIPE, SHALL RUN THE ENTIRE LENGTH OF THE PIPE AND SHALL BE 3/4" IN HEIGHT WITH THE APPROXIMATE WORDING APPEARING ONE OR MORE TIMES EVERY 21 INCHES ALONG THE LENGTH OF THE PIPE. THE LETTERING MUST BE PERMANENTLY STENCILED TO THE PIPE SURFACE. LETTERING SHALL READ AS IS ACCEPTABLE FOR THE INTENDED USE. ALL LETTERING SHALL BE APPLIED BY THE PIPE MFG. DURING PRODUCTION.
- THE CONTRACTOR SHALL PERFORM LEAK TESTING LAMPING AND VIDEO TAPING ON ALL GRAVITY SEWERS AND A PRESSURE TEST ON ALL WATER, REUSE AND FORCE MAINS (AS APPLICABLE) IN ACCORDANCE WITH THE UTILITY HAVING JURISDICTION AND/OR AS STATED IN THE SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER. TESTS ARE TO BE CERTIFIED BY THE ENGINEER OF RECORD. THE SCHEDULING, COORDINATION AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S RESPONSIBILITY.
- WATER AND WASTEWATER SYSTEMS SHALL NOT BE PLACED IN SERVICE (FOR TEMPORARY OR PERMANENT USE) UNTIL ALL TESTING AND INSPECTIONS HAVE BEEN COMPLETED, TEST REPORTS AND "AS-BUILTS" FOR THOSE SYSTEMS SUBMITTED, AND CLEARANCE HAS BEEN OBTAINED FROM THE APPLICABLE UTILITIES AND PERMITTING AGENCIES. NO WATER SYSTEM SHALL BE PLACED IN SERVICE BEFORE SEWER SYSTEM HAS BEEN CLEARED FOR USE.
- DISINFECTION AND BACTERIOLOGICAL TESTING OF ALL WATER LINES SHALL BE PERFORMED IN ACCORDANCE WITH FDEP REGULATION 62-555.340.
- DEFLECTION TESTING FOR GRAVITY SEWER LINES SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 33.85 OF "RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES (10 STATE STANDARDS)", 1997 EDITION.
- THE CONTRACTOR SHALL COMPLY WITH LOCAL CROSS-CONNECTION CONTROL POLICY FOR CONSTRUCTION OF ALL POTABLE, SANITARY AND RECLAIMED UTILITIES.
- ALL WATER MAINS SHALL HAVE A MINIMUM OF 36" COVER. FORCE MAINS SHALL HAVE A MINIMUM OF 48" COVER. INCREASED DEPTH MAY BE REQUIRED TO AVOID STORM DRAINAGE OR OTHER UTILITY SYSTEMS.
- CONTRACTOR TO PROVIDE THRUST BLOCKING AND/OR JOINT RESTRAINTS TO FULLY RESTRAIN PRESSURE PIPES AGAINST FAILURE UP TO A TEST PRESSURE OF 150 psi. CONTRACTOR SHALL PROVIDE A RESTRAINING PLAN FOR THE ENGINEER'S REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- ALL UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DOCUMENTS REFERENCED HEREIN. ANY METHODS, PROCEDURES, STANDARDS, EQUIPMENT, OR MATERIALS WHICH ARE NOT COVERED OR SPECIFIED BY THE APPLICABLE PROVISIONS OF PASCO COUNTY UTILITIES DEPARTMENT WATER AND WASTEWATER CONSTRUCTION SPECIFICATIONS MANUAL SHALL BE CONSTRUCTED TO BE IN ACCORDANCE WITH THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND F.D.O.T. UTILITIES ACCOMMODATION GUIDE UNLESS SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD. IN THE CASE OF CONFLICTING SPECIFICATIONS, THE MOST STRINGENT SHALL APPLY.
- ALL UTILITIES SHALL BE KEPT IN OPERATION EXCEPT WITH THE EXPRESS WRITTEN CONSENT OF THE UTILITY OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE EXISTING UTILITIES. ANY AND ALL DAMAGE TO EXISTING UTILITIES AS A RESULT OF THE CONTRACTOR'S ACTIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- WHERE WATER AND SEWER LINE INSTALLATION ARE IN CONFLICT WITH EXISTING UTILITY POLES, GUY WIRES OR SIMILAR STRUCTURES, THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY TO DETERMINE WHETHER THE STRUCTURES WILL REQUIRE RESTRAINT. THE FINAL DECISION AS TO WHETHER RESTRAINT IS REQUIRED WHILE EXCAVATION OCCURS SHALL BE THAT OF THE UTILITY OWNER. THE COST FOR THIS COORDINATION AND RESTRAINT SHALL BE INCLUDED IN THE CONTRACTOR'S OVERALL COSTS.
- CONTRACTOR SHALL PROVIDE TEMPORARY CONNECTIONS AS NECESSARY FOR FLUSHING, DECONTAMINATION AND PRESSURE TESTING.

## FIRE PROTECTION NOTES

- PROJECT MUST COMPLY WITH PASCO COUNTY FIRE HYDRANT ORDINANCE
- FIRE HYDRANTS SHALL BE INSTALLED AND IN SERVICE PRIOR TO THE ACCUMULATION OF COMBUSTIBLES.
- PER THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA-1, 16.4.3.1.3: WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED, COMPLETED AND IN SERVICE PRIOR TO CONSTRUCTION WORK.
- PER NFPA-1, 18.3.4.1 - CLEARANCES OF 7.5 FEET IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANT WITH A FOUR FOOT CLEARANCE TO THE REAR MUST BE MAINTAINED AT ALL TIMES.
- THE INSTALLATION OF UNDERGROUND FIRE LINES REQUIRES SEPARATE PLANS AND PERMITS, ISSUED BY THE BUILDING DEPARTMENT, TO A CONTRACTOR AS LICENSED BY THE FLORIDA STATE FIRE MARSHALS OFFICE.

## UTILITY SEPARATION NOTES

- NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT WILL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, STORM SEWER, STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER (OR A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER IF THE BOTTOM OF THE WATER MAIN WILL BE LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER); A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AND A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM." [FAC 62-555.314(1); EXCEPTIONS ALLOWED UNDER FAC 62-555.314(5)]
- NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE OTHER PIPELINE OR AT LEAST 12 INCHES BELOW THE OTHER PIPELINE; AND NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPELINE. [FAC 62-555.314(2); EXCEPTIONS ALLOWED UNDER FAC 62-555.314(5)]
- AT THE UTILITY CROSSINGS DESCRIBED ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE WILL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE OR THE PIPES WILL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. [FAC 62-555.314(2); EXCEPTIONS ALLOWED UNDER FAC 62-555.314(5)]

NOTE: WHEN IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATIONS AS STIPULATED ABOVE, DEP MAY ALLOW DEVIATION ON A CASE-BY-CASE BASIS IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER. APPROVAL FOR THE DEVIATION MUST BE OBTAINED PRIOR TO CONSTRUCTION.

## INSPECTIONS AND MAINTENANCE OF STORMWATER FACILITIES

- EROSION AND SETTLEMENT CONTROLS SHALL BE INSPECTED ON A DAILY BASIS. WHEN NECESSARY REPAIRS SHALL BE INITIATED WITHIN 24 HOURS OF NOTED DEFICIENCY.
- THE ENTIRE STORM WATER SYSTEM SHOULD BE INSPECTED 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/CLEANING AROUND THE STRUCTURES MAY BE REQUIRED TO PREVENT CLOGGING BY VEGETATION.
- SEDIMENT SUMPS, IF DESIGNED AND INSTALLED, SHOULD HAVE SEDIMENT REMOVED AS NECESSARY TO ALLOW FOR EFFICIENT REMOVAL OF SUSPENDED PARTICLES. THEY SHOULD BE RE-EXCAVATED TO THE DESIGN FINISH GRADE ELEVATION, IF SIFTED IN.
- SPECIFIC CONDITIONS OF ALL PERMITS MAY REQUIRE ADDITIONAL MAINTENANCE ACTIVITIES ABOVE AND BEYOND THOSE OUTLINED ABOVE. CHECK ALL PERMIT CONDITIONS AS ISSUED BY REGULATORY AGENCIES TO ENSURE COMPLIANCE.
- THE REMOVAL OF LITTORAL SHELF VEGETATION (INCLUDING CATTAILS) FROM WET DETENTION PONDS IS PROHIBITED UNLESS OTHERWISE APPROVED BY THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWM). REMOVAL INCLUDES DREDGING, THE APPLICATION OF HERBICIDES, CUTTING AND THE INTRODUCTION OF GRASS CARP. ANY QUESTIONS REGARDING AUTHORIZED ACTIVITIES WITH THE WET DETENTION PONDS SHALL BE ADDRESSED TO THE REGULATION MANAGER OF SWFWM'S LOCAL OFFICE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF TEMPORARY SEDIMENT / EROSION CONTROL DEVICES WHEN NO LONGER NEEDED.

## SPECIAL NOTES TO CONTRACTORS

- WHERE TREE REMOVAL IS REQUIRED DUE TO CONSTRUCTION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND DISPOSE OF THOSE TREES. THE COST FOR THIS REMOVAL AND DISPOSAL SHALL BE INCLUDED IN THE CONTRACTOR'S OVERALL COSTS. TREE REMOVAL AND PROTECTION SHALL COMPLY WITH APPLICABLE CITY AND / OR COUNTY CODES AS APPLICABLE.
- WHERE WATER AND SEWER LINE INSTALLATION ARE IN CONFLICT WITH EXISTING UTILITY POLES, GUY POLES OR OTHER SUCH POLES, THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY TO DETERMINE WHETHER THE RESPECTIVE POLE REQUIRES RESTRAINT. THE FINAL DECISION AS TO WHETHER A POLE IS TO BE RESTRAINED WHILE EXCAVATION OCCURS AROUND THE POLE SHALL BE THAT OF THE UTILITY OWNER. THE COST FOR THIS COORDINATION AND RESTRAINT SHALL BE INCLUDED IN THE CONTRACTOR'S OVERALL COSTS.
- THE CONTRACTOR SHALL SUBMIT MAINTENANCE OF TRAFFIC PLANS TO APPROPRIATE REGULATORY AGENCIES HAVING JURISDICTION OVER IMPACTED ROADWAYS. CONSTRUCTION SHALL NOT COMMENCE WITHIN ROW UNTIL MOT APPROVALS FOR IMPACTED ROAD(S) ARE RECEIVED. CONTRACTOR SHALL ALSO NOTIFY LOCAL EMERGENCY SERVICES DEPARTMENTS WHENEVER CONSTRUCTION ACTIVITIES WILL IMPEDE NORMAL TRAFFIC FLOW.
- ALL DEFLECTION BENDS ARE 45° UNLESS SPECIFIED OTHERWISE. EXACT LOCATION OF BENDS TO BE DETERMINED IN FIELD AND APPROVED BY FIELD INSPECTOR. LOCATION DATA SHALL BE PROVIDED IN AS-BUILTS ACCORDING TO PASCO COUNTY AND/OR FDOT REQUIREMENTS.
- UNLESS SPECIFIED OTHERWISE, CONTRACTOR SHALL FURNISH AND INSTALL ALL PROPOSED ITEMS SHOWN WITHIN THE CONSTRUCTION PLANS.
- LENGTHS FOR DIRECTIONAL DRILLING SHOWN ARE MINIMUM TO CLEAR SPECIFIC OBSTRUCTIONS. ADDITIONAL LENGTH MAY BE REQUIRED DEPENDING UPON ALLOWABLE BEND RADIUS, DEPTH AND PIPE DIAMETER. CONTRACTOR SHALL NOTIFY ENGINEER WHENEVER ADDITIONAL DRILL LENGTHS ARE NECESSARY. PIPE DIMENSION RATIO SPECIFIED IS MINIMUM FOR PRESSURE REQUIREMENTS AND MAY NOT BE SUITABLE FOR ALL DEPTH, PULL FORCE, OR LOADING CONDITIONS. DRILLING CONTRACTOR SHALL NOTIFY ENGINEER WHENEVER SPECIFIED MINIMUMS MAY BE UNSUITABLE FOR THE INTENDED APPLICATION.
- CONSTRUCTION EQUIPMENT AND MATERIAL TRANSPORT / STAGING IS THE RESPONSIBILITY OF THE CONTRACTOR. UPON REQUEST, THE OWNER WILL PROVIDE ACCESS TO THE CLOSEST OPEN SPACE OWNED AND AVAILABLE FOR THE CONTRACTOR'S USE; HOWEVER, THE SITE MAY NOT BE CONTIGUOUS TO THE PROJECT AREA OR OF SUFFICIENT SIZE TO ACCOMMODATE THE ENTIRE PROJECT INVENTORY OF MATERIALS / EQUIPMENT.
- SHOULD ANY NOTICEABLE SOIL SLUMPING OR SINKHOLE FORMATION BECOME EVIDENT, THE APPLICANT/DEVELOPER SHALL IMMEDIATELY NOTIFY THE COUNTY, TAMPA BAY WATER, AND THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWM) AND ADOPT ONE (1) OR MORE OF THE FOLLOWING PROCEDURES AS DETERMINED TO BE APPROPRIATE BY THE COUNTY AND SWFWM:
  - IF THE SLUMPING OF 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 SWFWM APPROVE RESUMING CONSTRUCTION ACTIVITIES.
  - TAKE IMMEDIATE MEASURE TO ENSURE NO SURFACE WATER DRAINS INTO THE AFFECTED AREAS.
  - VISUALLY INSPECT THE AFFECTED AREA.
  - EXCAVATE AND BACKFILL OR GROUT, AS REQUIRED, TO FILL THE AFFECTED AREA AND PREVENT FURTHER SUBSIDENCE.
  - USE SOIL REINFORCEMENT MATERIALS IN THE BACKFILLING OPERATION WHEN APPROPRIATE.
  - IF THE AFFECTED AREA IS IN THE VICINITY OF A WATER-RETENTION AREA, MAINTAIN A MINIMUM DISTANCE OF TWO (2) FEET FROM THE BOTTOM OF THE RETENTION POND TO THE SURFACE OF THE LIMEROCK OR KARST CONNECTION.
  - IF THE AFFECTED AREA IS IN THE VICINITY OF A WATER-RETENTION AREA AND THE ABOVE METHODS DO NOT STABILIZE THE COLLAPSE, RELOCATE THE RETENTION AREA.
  - DISCHARGE OF STORMWATER INTO DEPRESSIONS WITH DIRECT OR DEMONSTRATED HYDROLOGIC CONNECTION TO THE FLORIDIAN AQUIFER SHALL BE PROHIBITED.

## TYPICAL CONSTRUCTION NOTES

AVENTON LITTLE MULTIFAMILY  
PASCO COUNTY, FLORIDA

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727-379-1155 EXT. 202 - FAX 727-375-1156  
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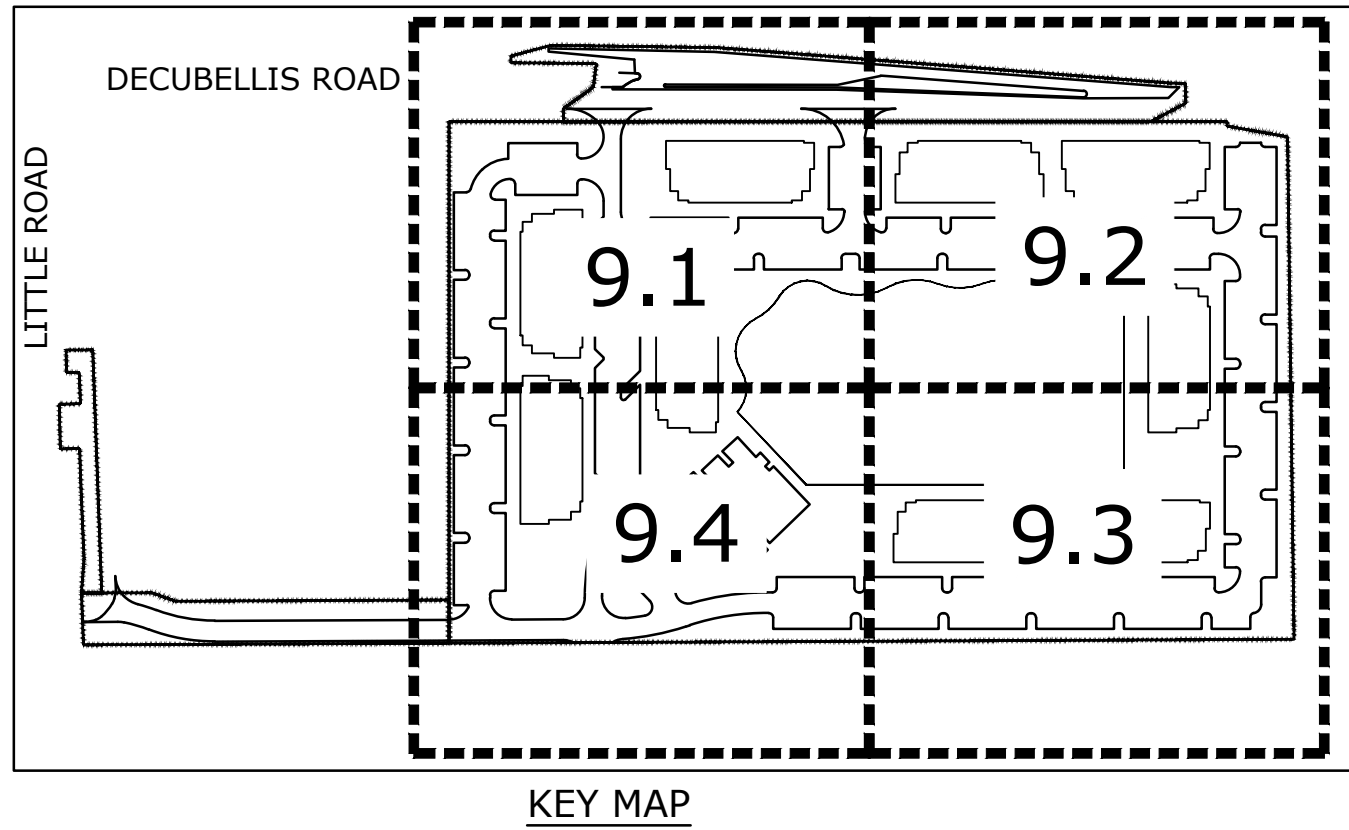
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	2	12/31/2025			

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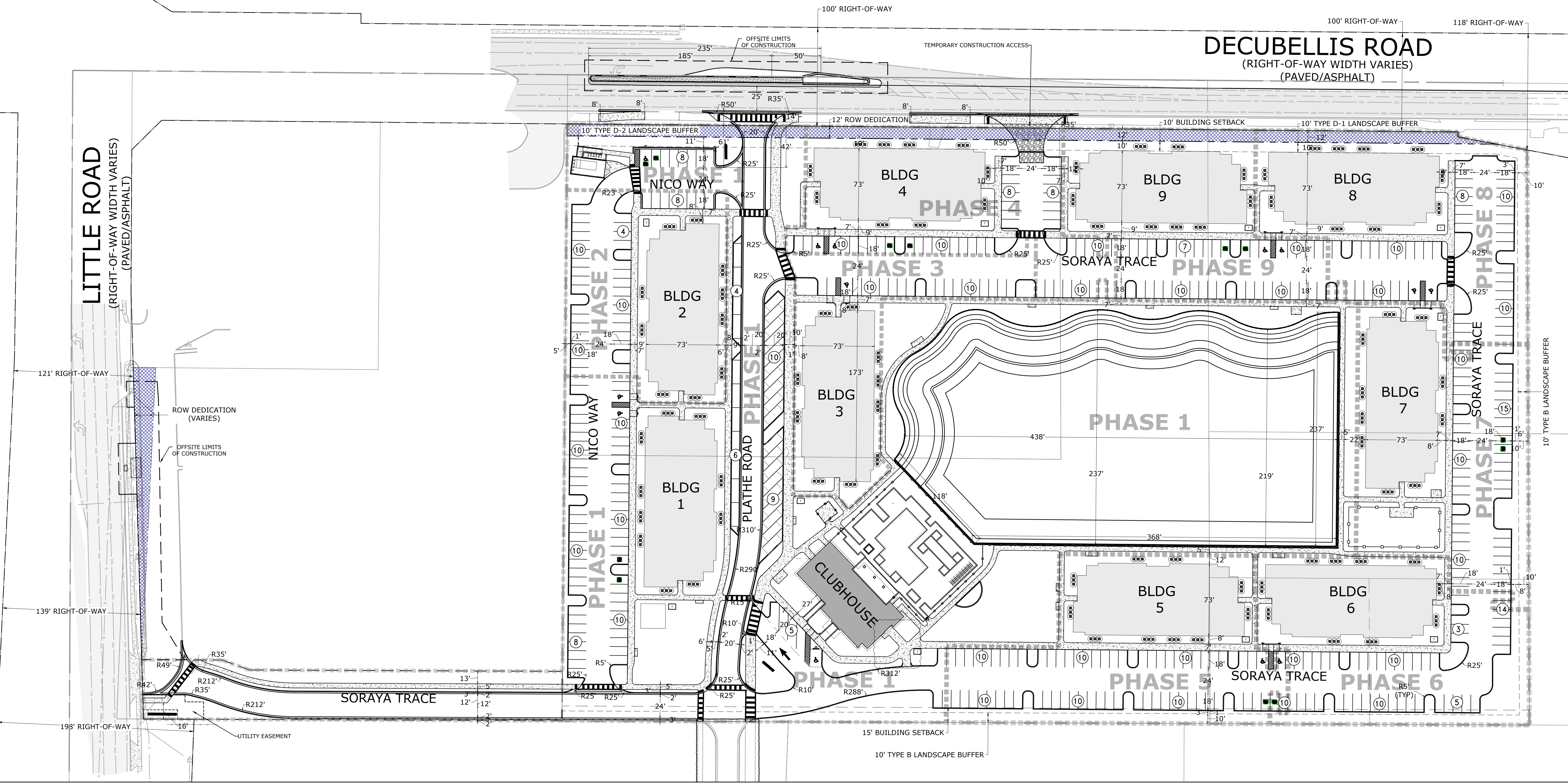
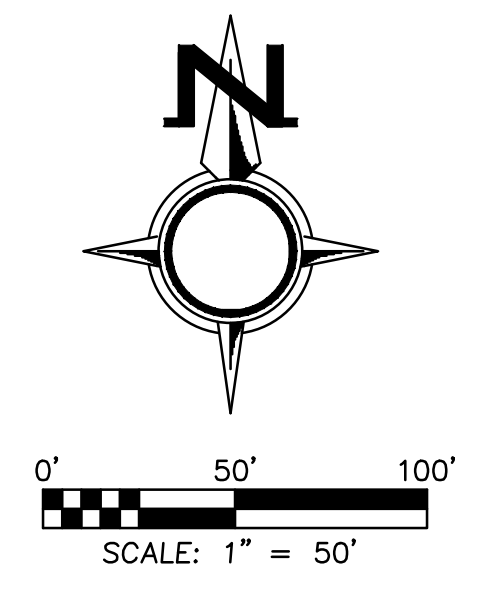
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ALTSTD-2025-00117 WAS APPROVED GRANTING SUBMITTED REQUESTING DEVIATIONS FROM PARKING RATIOS AND TYPICAL PARKING SPACE DIMENSIONS.

- LEGEND**
- - - - - PROPERTY BOUNDARY
  - LANDSCAPE BUFFER
  - BUILDING SETBACK
  - PHASE LINE
  - FENCE (SEE PLANS BY OTHERS)
  - ASPHALT PAVEMENT (SEE SHEET 8 FOR VARIATIONS AND CORRESPONDING SECTIONS ON SHEET 11)
  - ▨ CONCRETE
  - ▩ EXISTING ASPHALT
  - ▧ EXISTING CONCRETE
  - T TRANSFORMER PAD



**HORIZONTAL CONTROL**  
**AVENTON LITTLE MULTIFAMILY**  
**PASCO COUNTY, FLORIDA**

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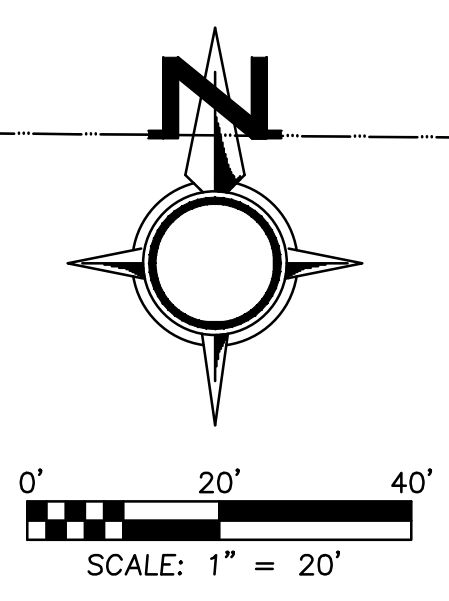
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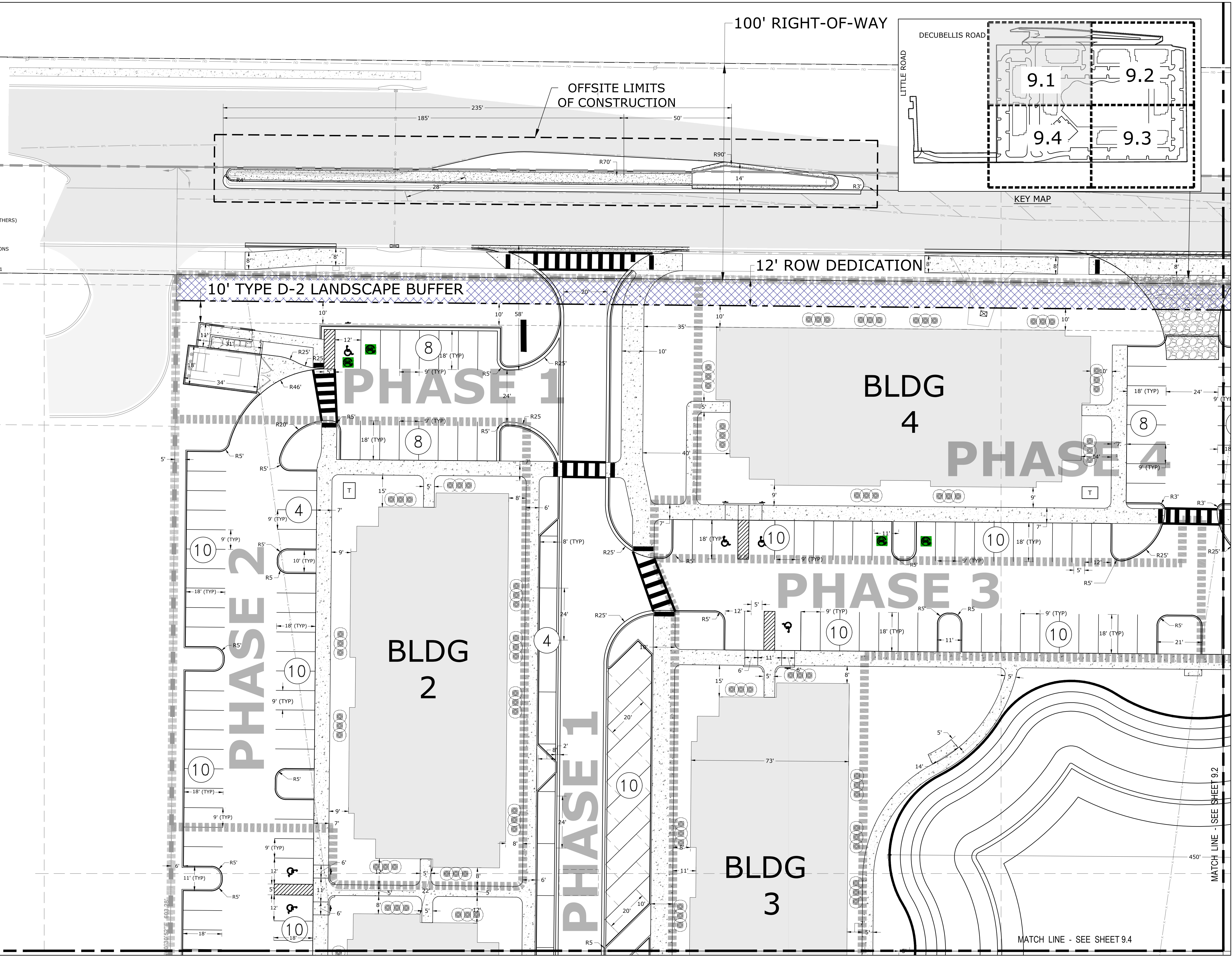
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PLOT DATE: 11/18/2025, 10:30:00 AM  
 PLOT BY: J. GRABER  
 PROJECT: AVENTON LITTLE MULTIFAMILY  
 DRAWING NO.: 25-00117-01



- LEGEND**
- PROPERTY BOUNDARY
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  - ▩ EXISTING ASPHALT
  - ▩ EXISTING CONCRETE
  - T TRANSFORMER PAD



HORIZONTAL CONTROL  
 AVENTON LITTLE MULTIFAMILY  
 PASCO COUNTY, FLORIDA

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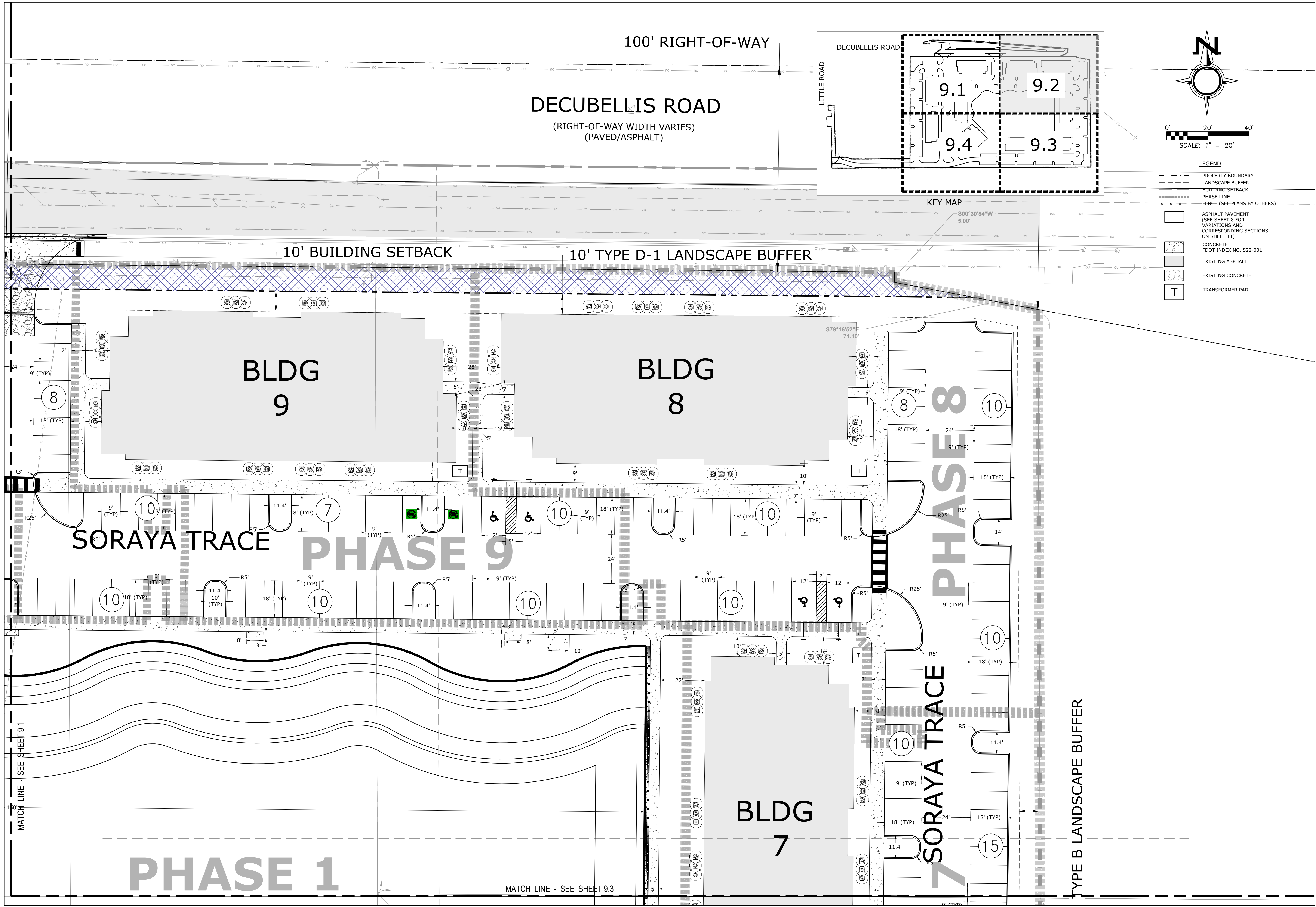
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**9.1**

PLOT DATE: 11/15/2023; 11:03 AM  
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PLOT DATE: 11/16/2023; 11:03 AM  
 PLOT BY: J. P. GARDNER, P.E.  
 PROJECT: 2313, AVENTON LITTLE MULTIFAMILY, PASCO COUNTY, FLORIDA  
 DRAWING NO.: 2313-01, SHEET 9.2



**HORIZONTAL CONTROL**

**AVENTON LITTLE MULTIFAMILY**  
**PASCO COUNTY, FLORIDA**

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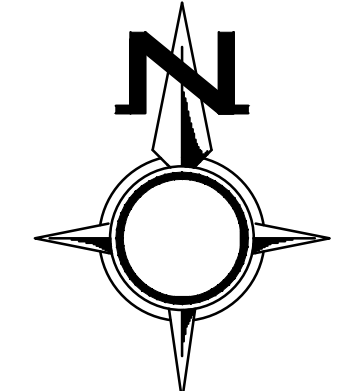
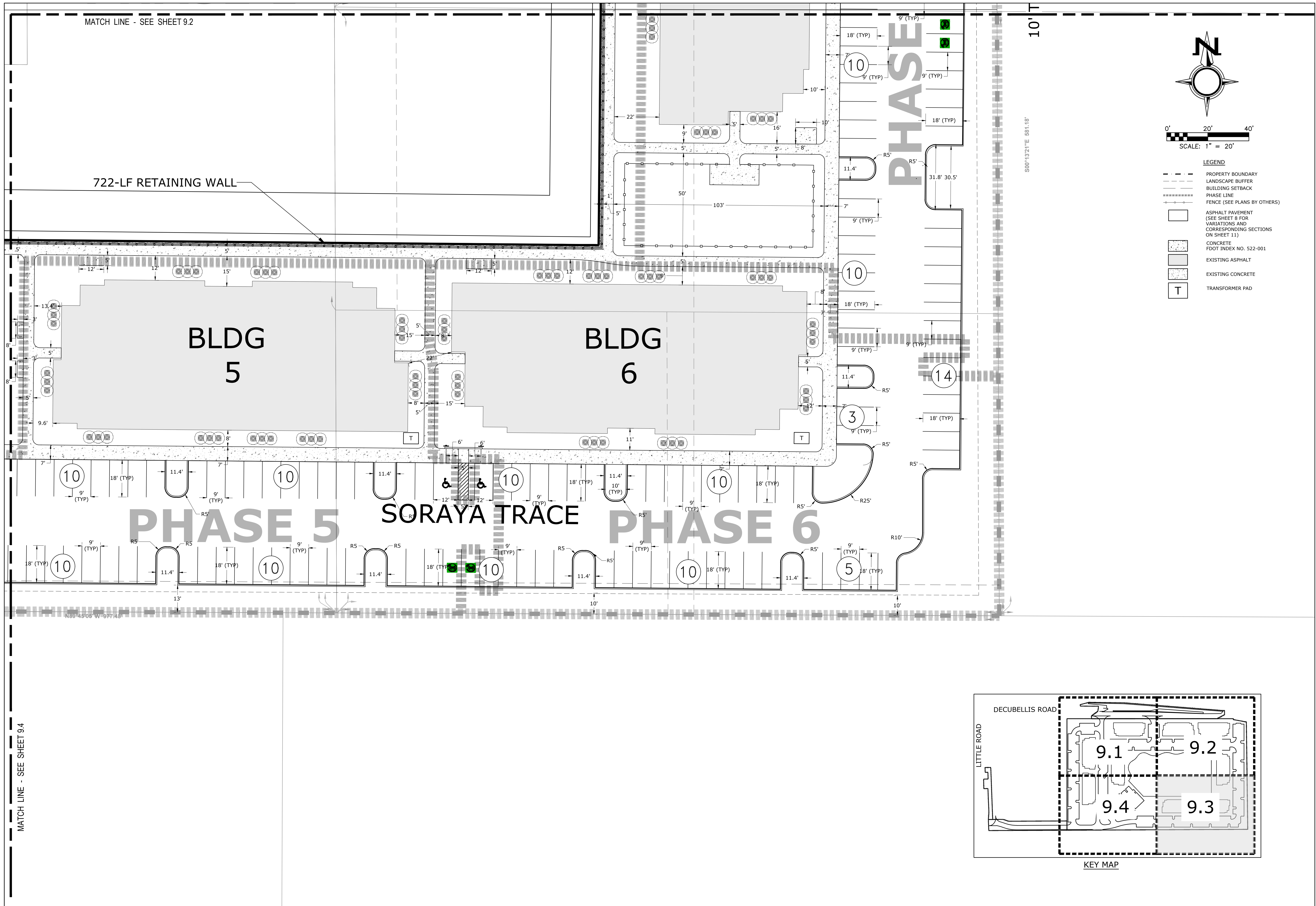
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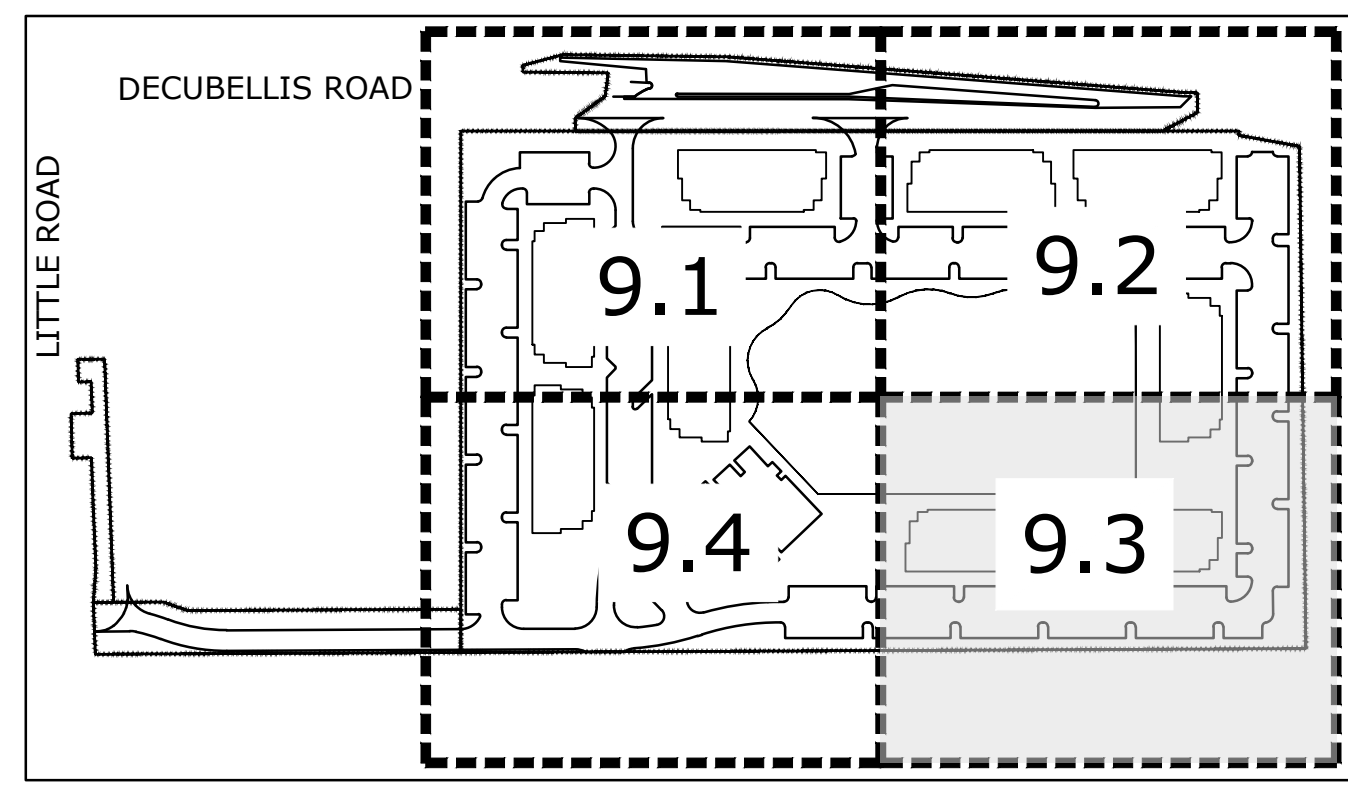
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SCALE: 1" = 20'

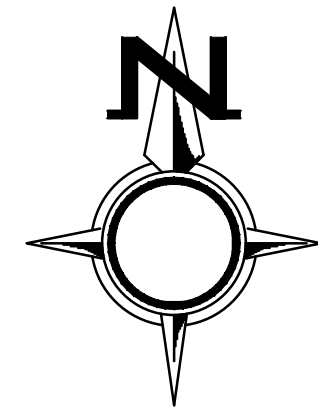
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KEY MAP

<b>HORIZONTAL CONTROL</b> <b>AVENTON LITTLE MULTIFAMILY</b> <b>PASCO COUNTY, FLORIDA</b>																	
<p style="font-size: small;">             9400 RIVER CROSSING BOULEVARD, SUITE 102 NEW PORT RICHEY, FLORIDA 34655              727-375-1155 EXT. 202 - FAX 727-375-1156              CERTIFICATE OF AUTHORIZATION NO. 28266           </p>																	
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<p style="font-size: x-small;">JAMES P. GRANDI, P.E. # 93232</p>																	
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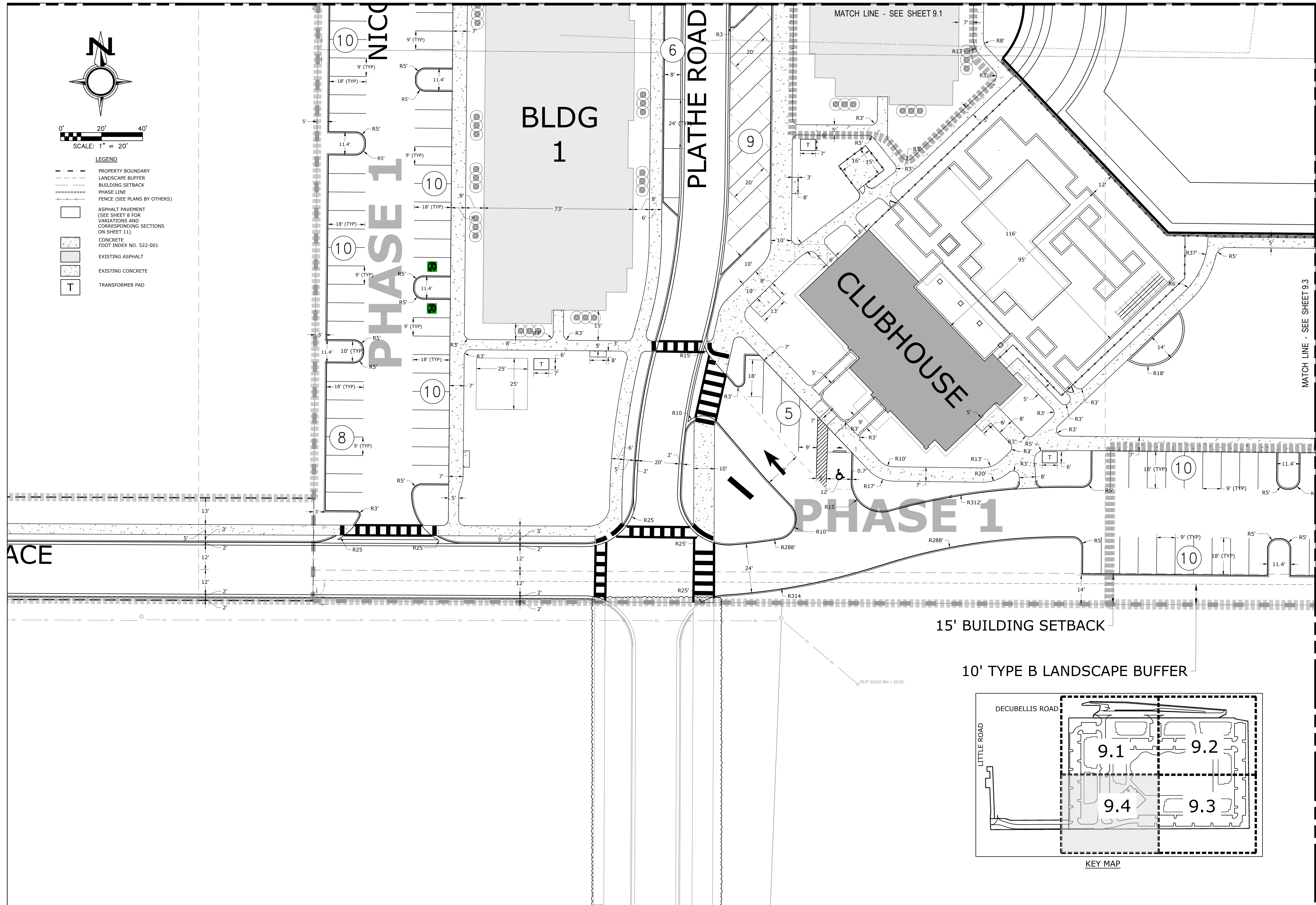
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0' 20' 40'  
SCALE: 1" = 20'

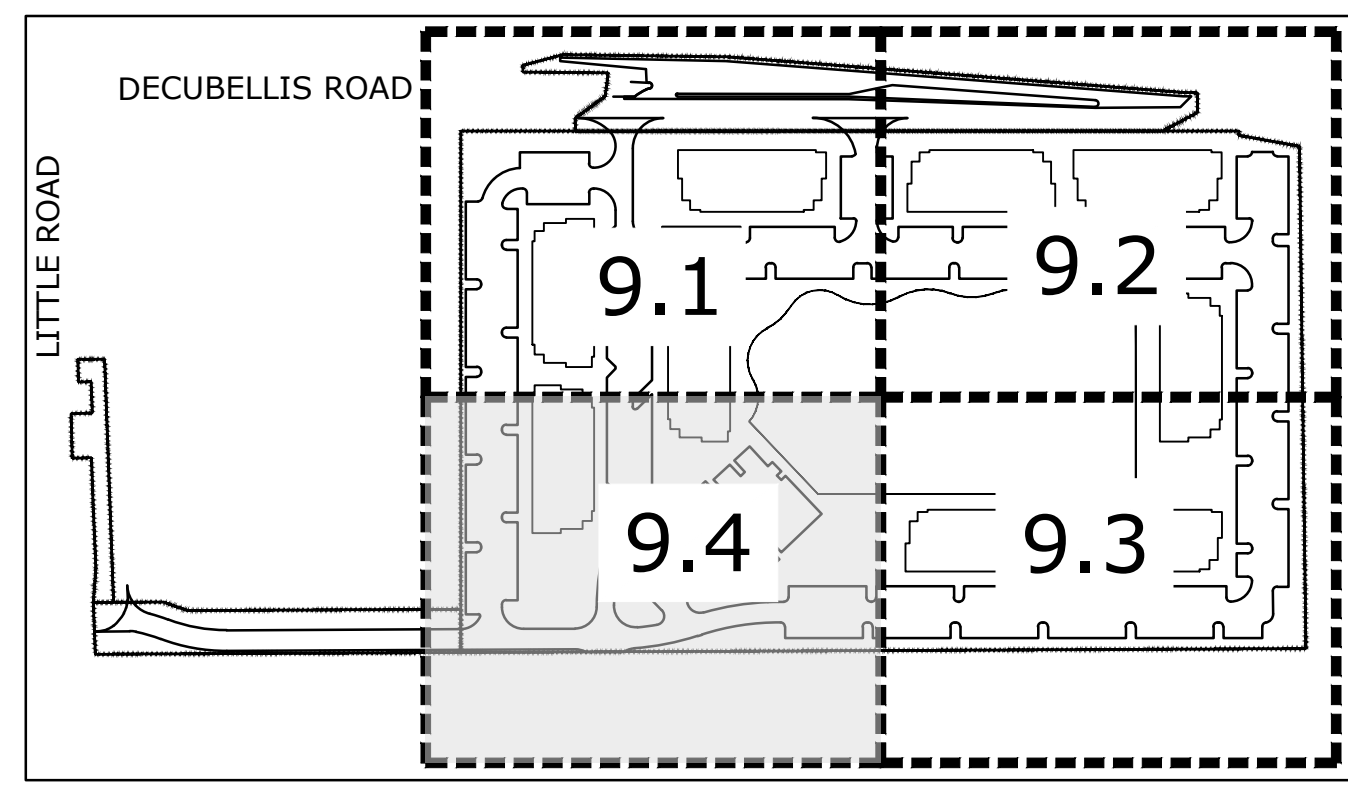
LEGEND

- PROPERTY BOUNDARY
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15' BUILDING SETBACK

10' TYPE B LANDSCAPE BUFFER



KEY MAP

HORIZONTAL CONTROL  
 AVENTON LITTLE MULTIFAMILY  
 PASCO COUNTY, FLORIDA

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**GENERAL NOTES :**

- GEOTEXTILE SHALL BE INSTALLED (UNDER) PRIOR TO THE PLACEMENT OF ANY RIPRAP MATERIAL. RIPRAP AND GEOTEXTILE SHALL CONFORM TO FDOT SPECIFICATION NO. 514 AND 530.
- HIGH-PERFORMANCE POLYPROPYLENE PIPE (HP-PP) MAY BE USED AS AN ALTERNATIVE TO RCP AT THE OWNERS DISCRETION. THE USE OF THIS ALTERNATIVE MATERIAL SHALL MEET THE SPECIFICATIONS OUTLINED IN THE PASCO COUNTY MEMO DATED 2/21/2024.

**PAVING NOTES :**

- FOR PAVEMENT SECTION INFORMATION, SEE ROAD PROFILE SHEET 11

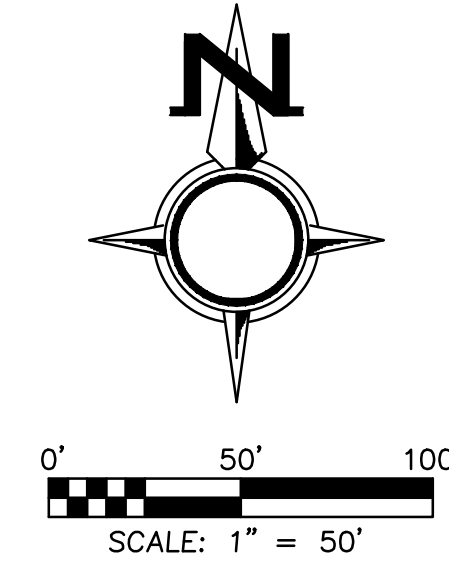
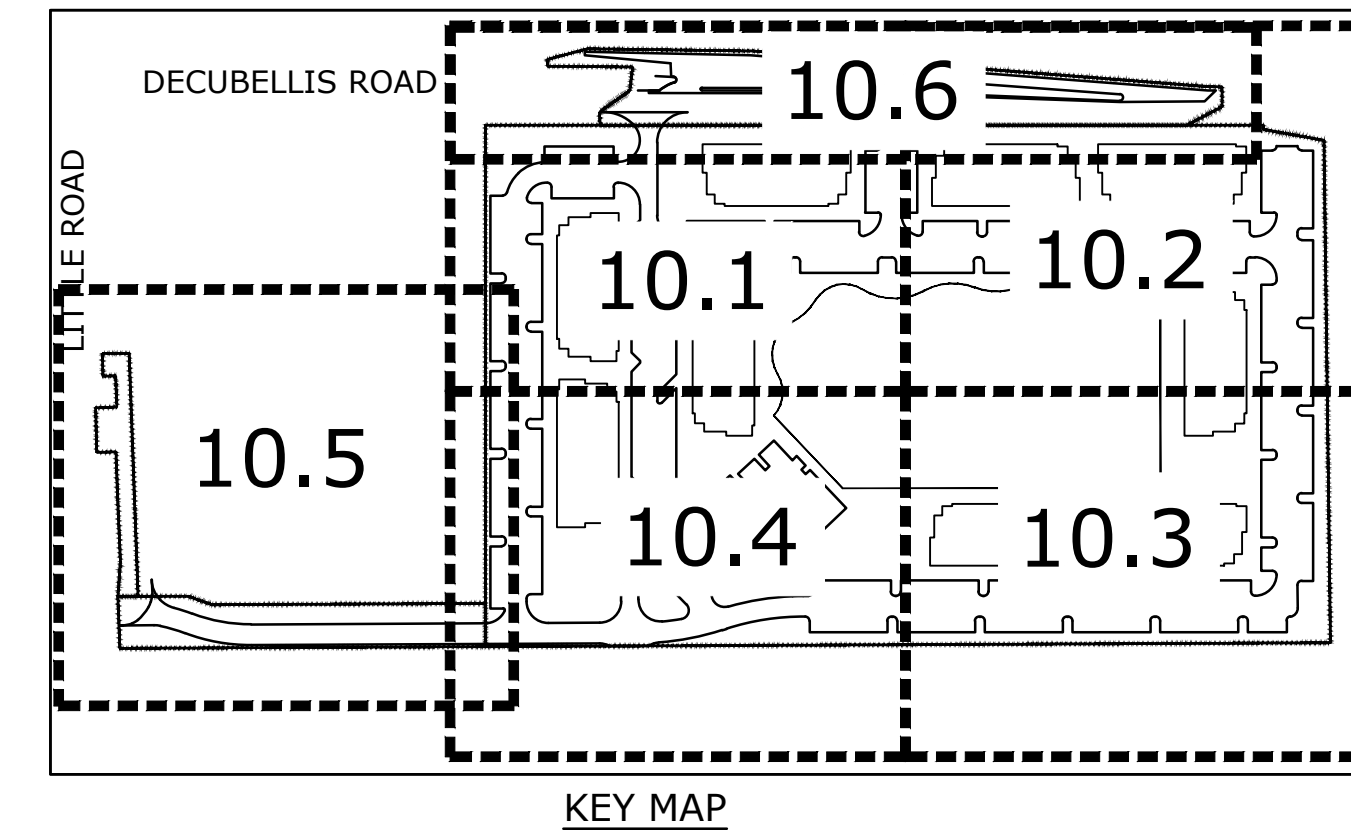
**PROPERTY NOTES :**

- PROPERTY LIES WITHIN FLOOD ZONE "X" AS PER FLOOD INSURANCE RATE MAP NO. 12101C0193F, COMMUNITY PANEL NO. 120230, DATED 09/25/14
- ELEVATIONS SHOWN ARE BASED UPON THE NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD-88).

**AVENTON HOLDINGS II, LLC OR THEIR SUCCESSORS SHALL BE RESPONSIBLE FOR THE PERPETUAL OPERATION AND MAINTENANCE OF THE STORMWATER MANAGEMENT SYSTEM FOR THE PROJECT, INCLUDING ALL DRAINAGE AND ACCESS EASEMENTS TO THESE FACILITIES.**

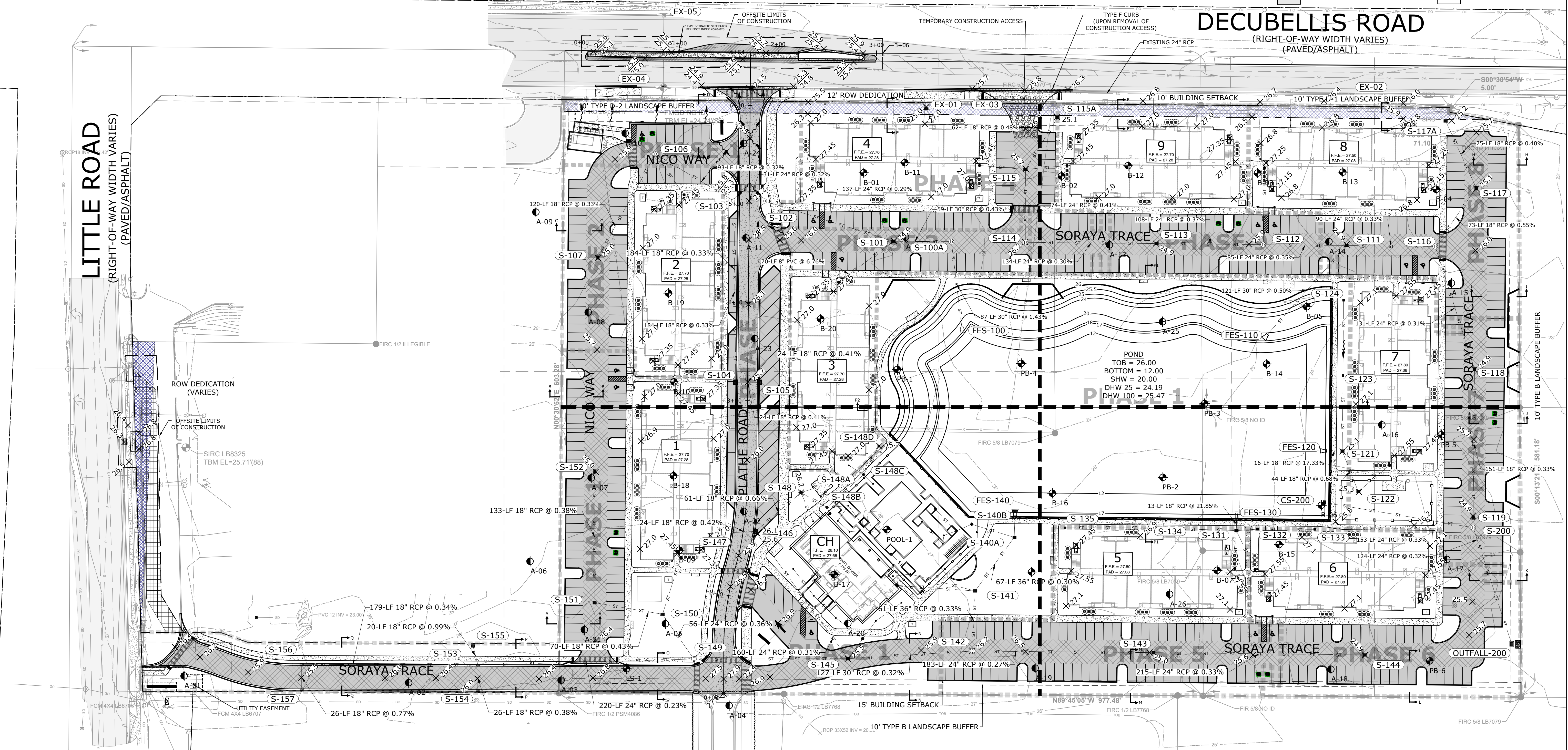
GEO TECHNICAL BORINGS RESULTS				GEO TECHNICAL BORINGS RESULTS			
BORING	SURFACE ELEVATION	RECORDED WATER TABLE	ESHW	BORING	SURFACE ELEVATION	RECORDED WATER TABLE	ESHW
A-01	25.1	-	19.1	B-02	24.0	12.5	16.0
A-02	26.9	-	20.9	B-03	23.9	14.9	17.9
A-03	27.1	-	21.1	B-04	22.7	14.7	18.7
A-04	27.1	-	21.1	B-05	25.0	16.0	20.0
A-05	27.7	-	21.7	B-06	27.7	15.2	19.2
A-06	27.0	-	21.0	B-07	25.4	-	19.4
A-07	26.5	-	20.5	B-08	26.4	-	20.4
A-08	26.1	-	20.1	B-09	27.2	-	21.2
A-09	25.4	-	19.4	B-10	26.4	-	20.4
A-10	24.8	-	18.8	B-11	24.8	14.8	18.8
A-11	25.5	-	19.5	B-12	23.5	14.0	18.0
A-12	24.9	-	18.9	B-13	23.6	15.1	18.6
A-13	23.2	16.2	20.2	B-14	24.8	-	18.8
A-14	24.0	16.0	20.0	B-15	23.9	13.9	18.9
A-15	23.2	17.2	20.2	B-16	25.8	15.8	19.8
A-16	23.5	16.5	20.5	B-17	27.3	-	21.3
A-17	23.7	16.7	20.7	B-18	27.1	-	21.1
A-18	23.5	17.5	20.5	B-19	25.7	15.7	19.7
A-19	26.9	-	20.9	B-20	25.8000	15.8	19.8
A-20	27.1	-	21.1	PB-01	26.1000	27.1	21.1
A-21	26.8	-	20.8	PB-02	26.6000	27.6	21.6
A-22	27.0	-	21.0	PB-03	25.1000	26.1	20.1
A-23	26.2	-	20.2	PB-04	23.8000	13.8	18.8
A-24	25.2	-	19.2	PB-05	23.9000	13.9	20.9
A-25	24.4	-	18.4	PB-06	24.6000	15.1	21.6
A-26	26.3	-	20.3	POOL-01	27.4000	18.4	22.4
B-01	25.1	16.1	19.1	LS-01	27.9000	17.9	21.9

NOTE: INFORMATION SHOWN ON THIS TABLE WAS TAKEN FROM THE GEO TECHNICAL REPORT PREPARED BY UES DATED 5/30/2025.



**LEGEND**

	PROPERTY BOUNDARY		EXISTING CONCRETE
	LANDSCAPE BUFFER		ASPHALT RESTORATION (SEE SECTION ON SHEET 11)
	BUILDING SETBACK		STORM LINE
	PHASE LINE		PROPOSED STORMWATER STRUCTURES
	FENCE (SEE PLANS BY OTHERS)		GEO TECHNICAL BORINGS
	LIGHT-DUTY ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)		FLOW DIRECTION
	HEAVY-DUTY ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)		TRANSFORMER PAD
	PLATHE ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)		
	DECUBELLIS ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)		
	CONCRETE		
	EXISTING ASPHALT		



PAVING, DRAINAGE AND GRADING PLAN  
 AVENTON LITTLE MULTIFAMILY  
 PASCO COUNTY, FLORIDA

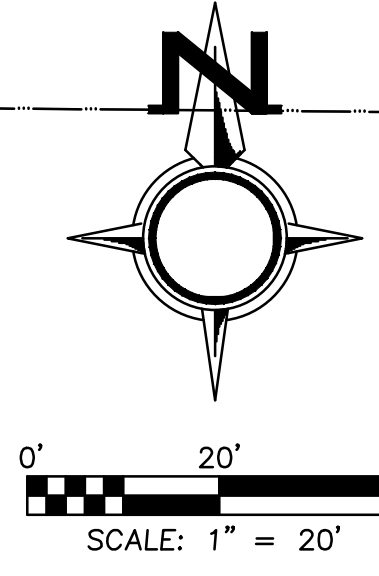
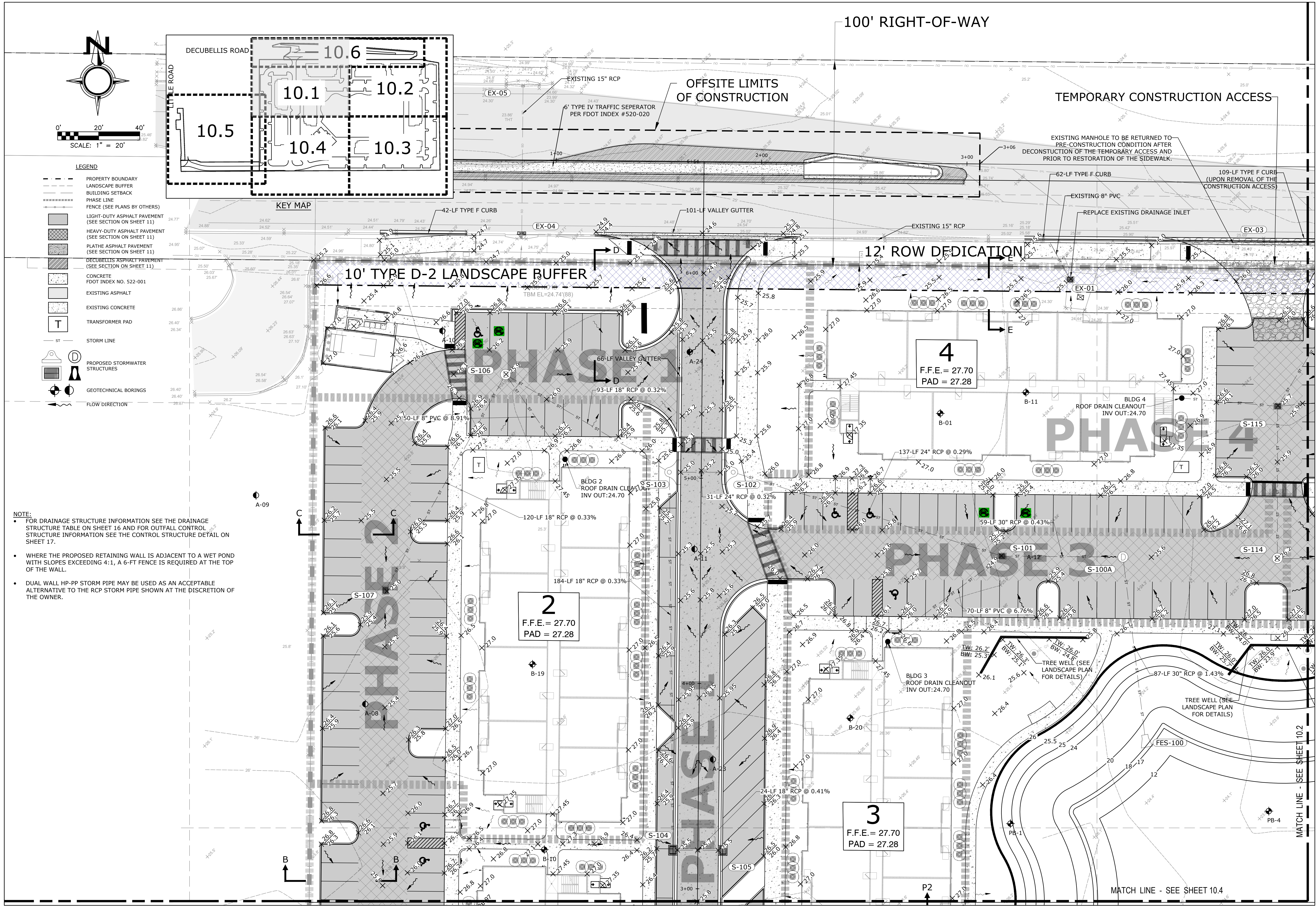
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 9400 RIVER CROSSING BOULEVARD, SUITE 102 NEW PORT RICHEY, FLORIDA 34665  
 727-375-1155 EXT. 202 - FAX 727-375-1156  
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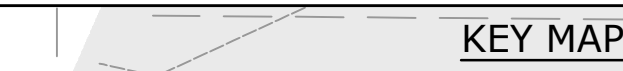
DATE	REV. BY	REV. NO.	REVISION

SHEET  
**10**

PLOT DATE TIME: Monday, February 03, 2025 @ 1:37 PM  
 S:\01-RBE Projects\212 Avention Holdings II, LLC\4615 - Avention Little Road Design and Permitting\Drawings\4615\_09\_PWD.dwg



- LEGEND**
- PROPERTY BOUNDARY
  - LANDSCAPE BUFFER
  - BUILDING SETBACK
  - PHASE LINE
  - FENCE (SEE PLANS BY OTHERS)
  - LIGHT-DUTY ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
  - HEAVY-DUTY ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
  - PLATHE ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
  - DECUBELLIS ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
  - CONCRETE FDOT INDEX NO. 522-001
  - EXISTING ASPHALT
  - EXISTING CONCRETE
  - TRANSFORMER PAD
  - ST STORM LINE
  - PROPOSED STORMWATER STRUCTURES
  - GEOTECHNICAL BORINGS
  - FLOW DIRECTION



- NOTE:**
- FOR DRAINAGE STRUCTURE INFORMATION SEE THE DRAINAGE STRUCTURE TABLE ON SHEET 16 AND FOR OUTFALL CONTROL STRUCTURE INFORMATION SEE THE CONTROL STRUCTURE DETAIL ON SHEET 17.
  - WHERE THE PROPOSED RETAINING WALL IS ADJACENT TO A WET POND WITH SLOPES EXCEEDING 4:1, A 6-FT FENCE IS REQUIRED AT THE TOP OF THE WALL.
  - DUAL WALL HP-PP STORM PIPE MAY BE USED AS AN ACCEPTABLE ALTERNATIVE TO THE RCP STORM PIPE SHOWN AT THE DISCRETION OF THE OWNER.

DRAWING WOULD UNLESS SPECIFIED, DATED & SEALED BY REGISTERED PROFESSIONAL ENGINEER

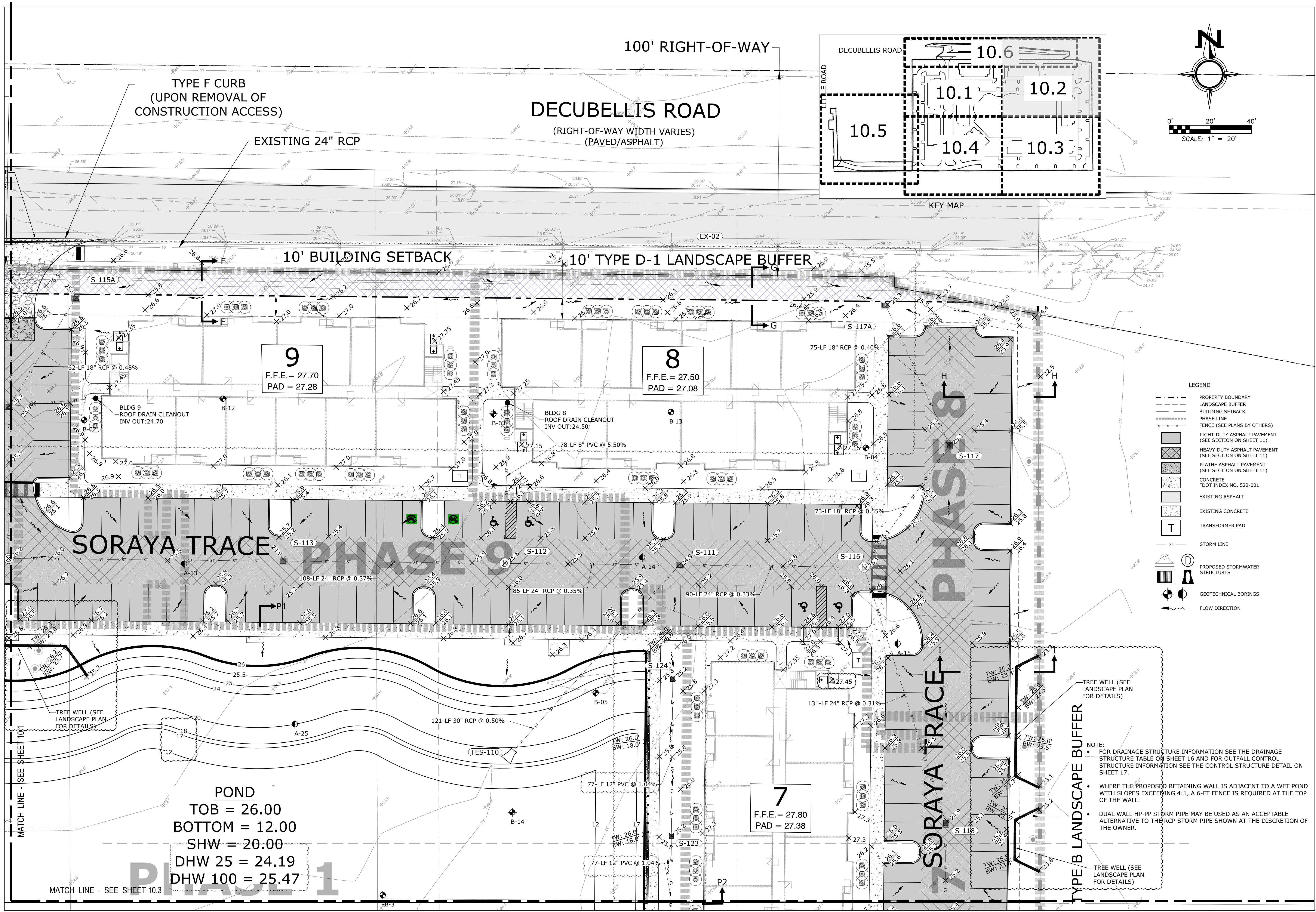
JAMES P. GRANER, P.E., F.F.E.

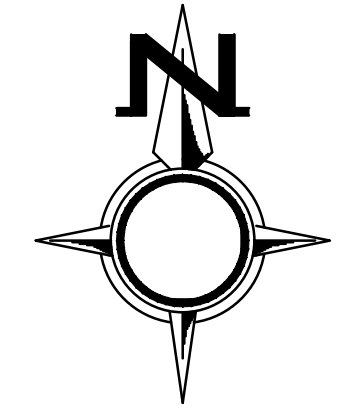
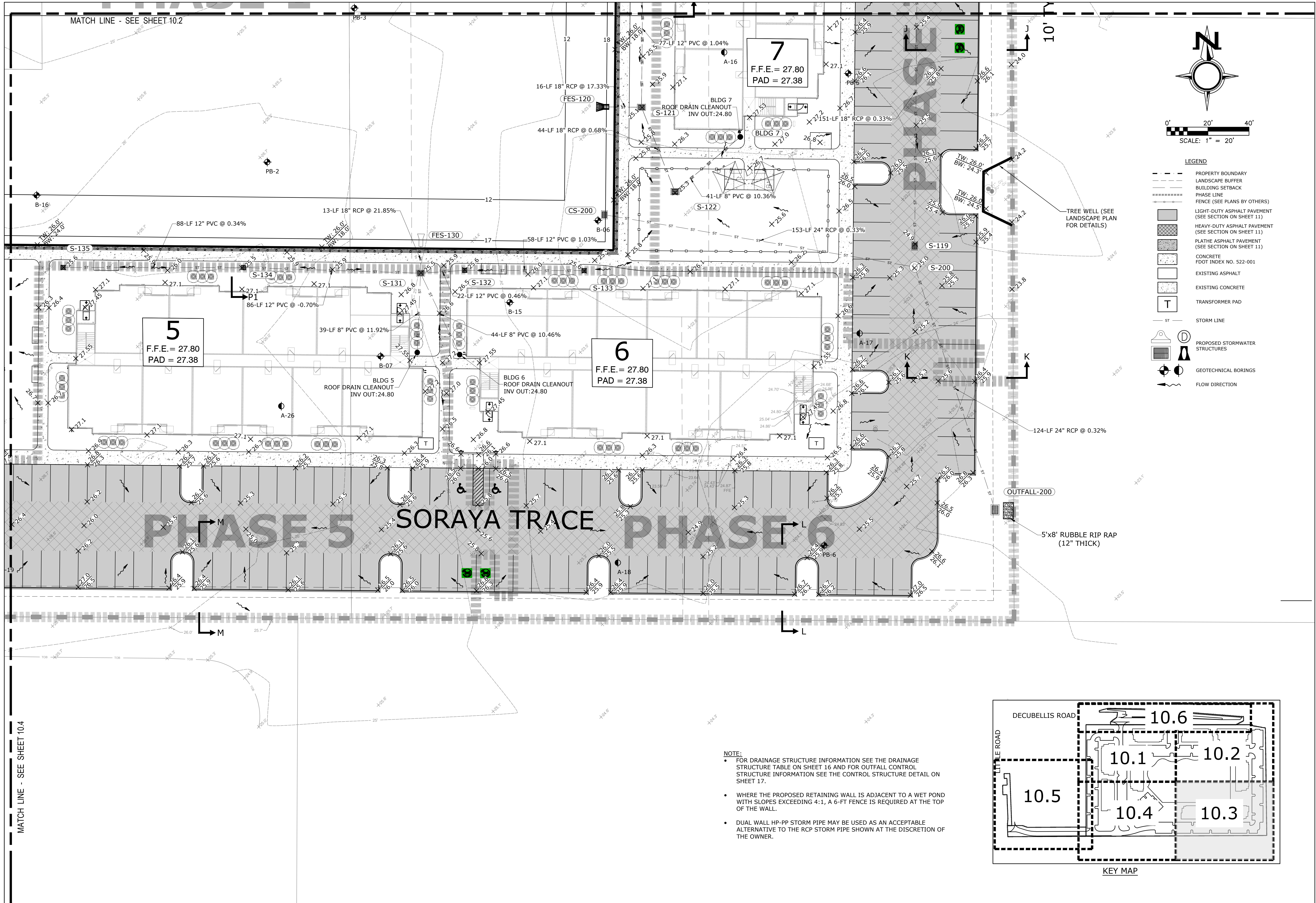
DRAWING WOULD UNLESS SPECIFICALLY NOTED & SEALED BY REGISTERED PROFESSIONAL  
 JAMES P. GRAND, P.E., P. 9322

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- LEGEND**
- PROPERTY BOUNDARY
  - LANDSCAPE BUFFER
  - BUILDING SETBACK
  - PHASE LINE (SEE PLANS BY OTHERS)
  - FENCE (SEE PLANS BY OTHERS)
  - LIGHT-DUTY ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
  - HEAVY-DUTY ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
  - PLATHE ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
  - CONCRETE FOOT INDEX NO. 522-001
  - EXISTING ASPHALT
  - EXISTING CONCRETE
  - TRANSFORMER PAD
  - STORM LINE
  - PROPOSED STORMWATER STRUCTURES
  - GEOTECHNICAL BORINGS
  - FLOW DIRECTION

**PAVING, DRAINAGE AND GRADING PLAN**  
**AVENTON LITTLE MULTIFAMILY**  
**PASCO COUNTY, FLORIDA**

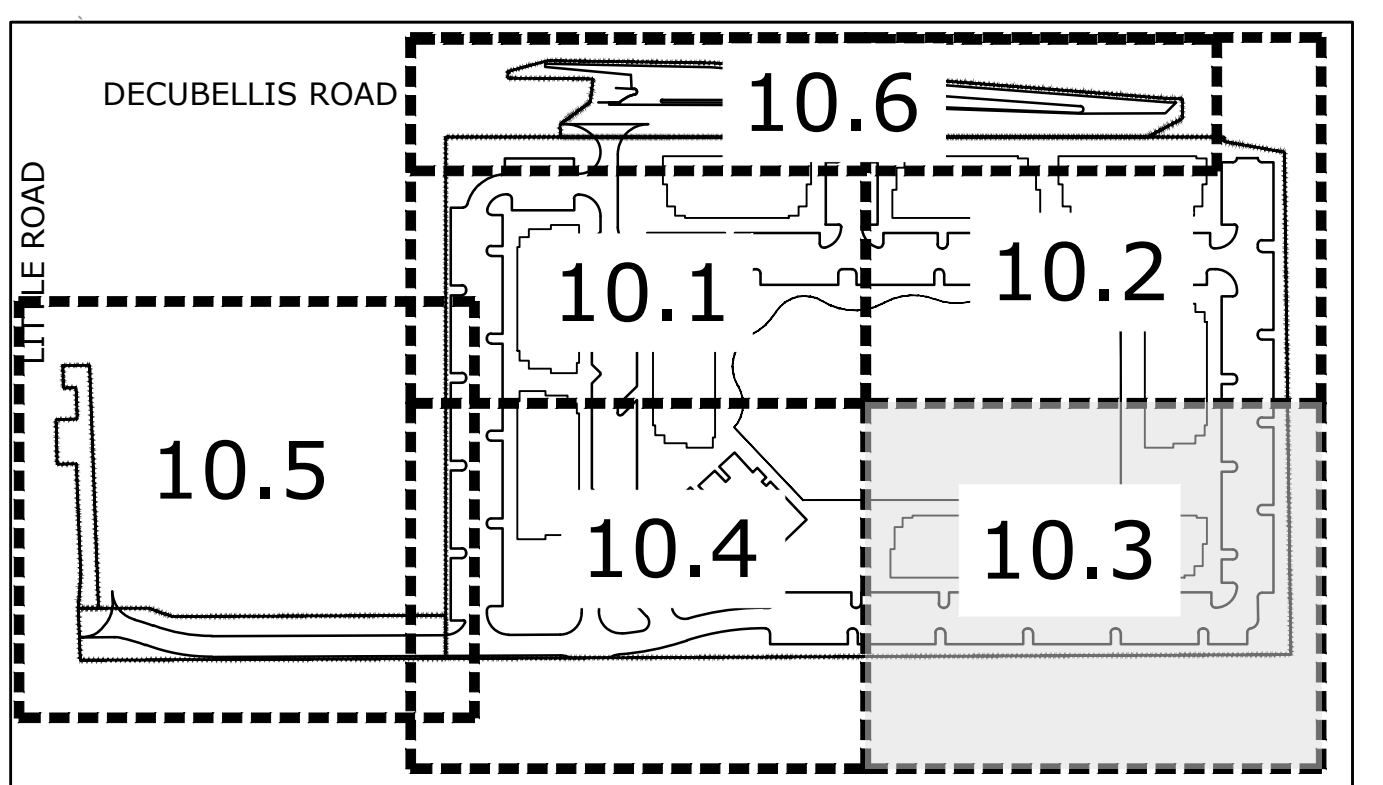
DRAWING WALDO WALKER SIGNED, SEALED & SEALED BY REGISTERED PROFESSIONAL  
 JAMES P. GRAYSON, P.E., F.F.E. # 9332

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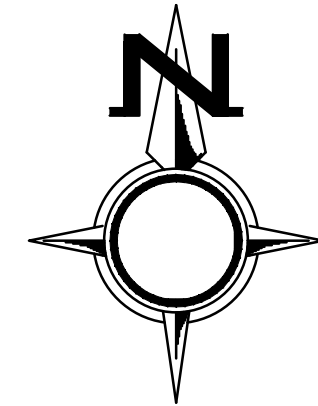
- NOTE:**
- FOR DRAINAGE STRUCTURE INFORMATION SEE THE DRAINAGE STRUCTURE TABLE ON SHEET 16 AND FOR OUTFALL CONTROL STRUCTURE INFORMATION SEE THE CONTROL STRUCTURE DETAIL ON SHEET 17.
  - WHERE THE PROPOSED RETAINING WALL IS ADJACENT TO A WET POND WITH SLOPES EXCEEDING 4:1, A 6-FT FENCE IS REQUIRED AT THE TOP OF THE WALL.
  - DUAL WALL HP-PP STORM PIPE MAY BE USED AS AN ACCEPTABLE ALTERNATIVE TO THE RCP STORM PIPE SHOWN AT THE DISCRETION OF THE OWNER.



KEY MAP

SHEET  
**10.3**

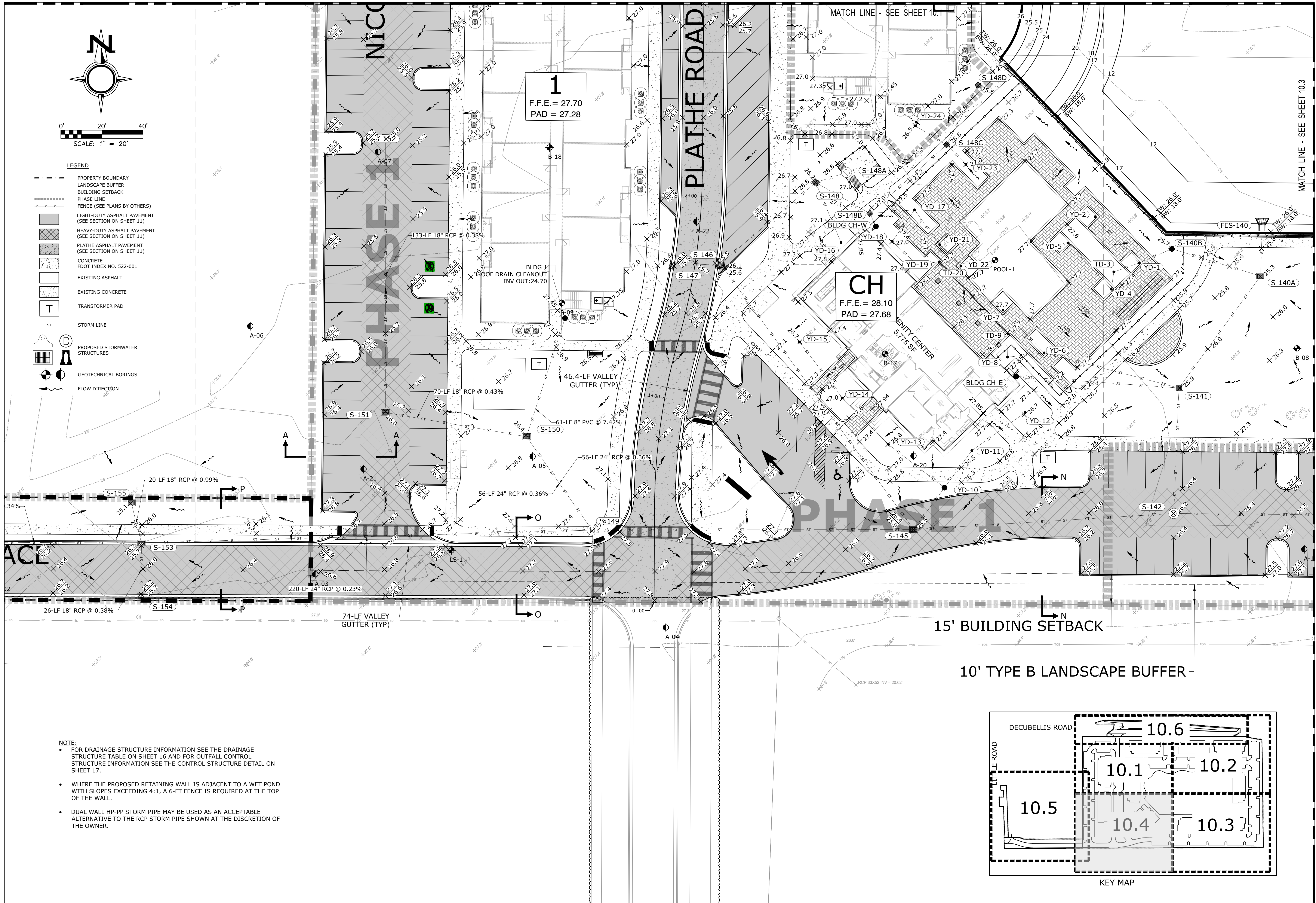
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 PLOT BY: J. G. GRIFFIN  
 PROJECT: AVENTON LITTLE MULTIFAMILY PHASE 5, 6, 7  
 SHEET: 10.3



0' 20' 40'  
SCALE: 1" = 20'

LEGEND

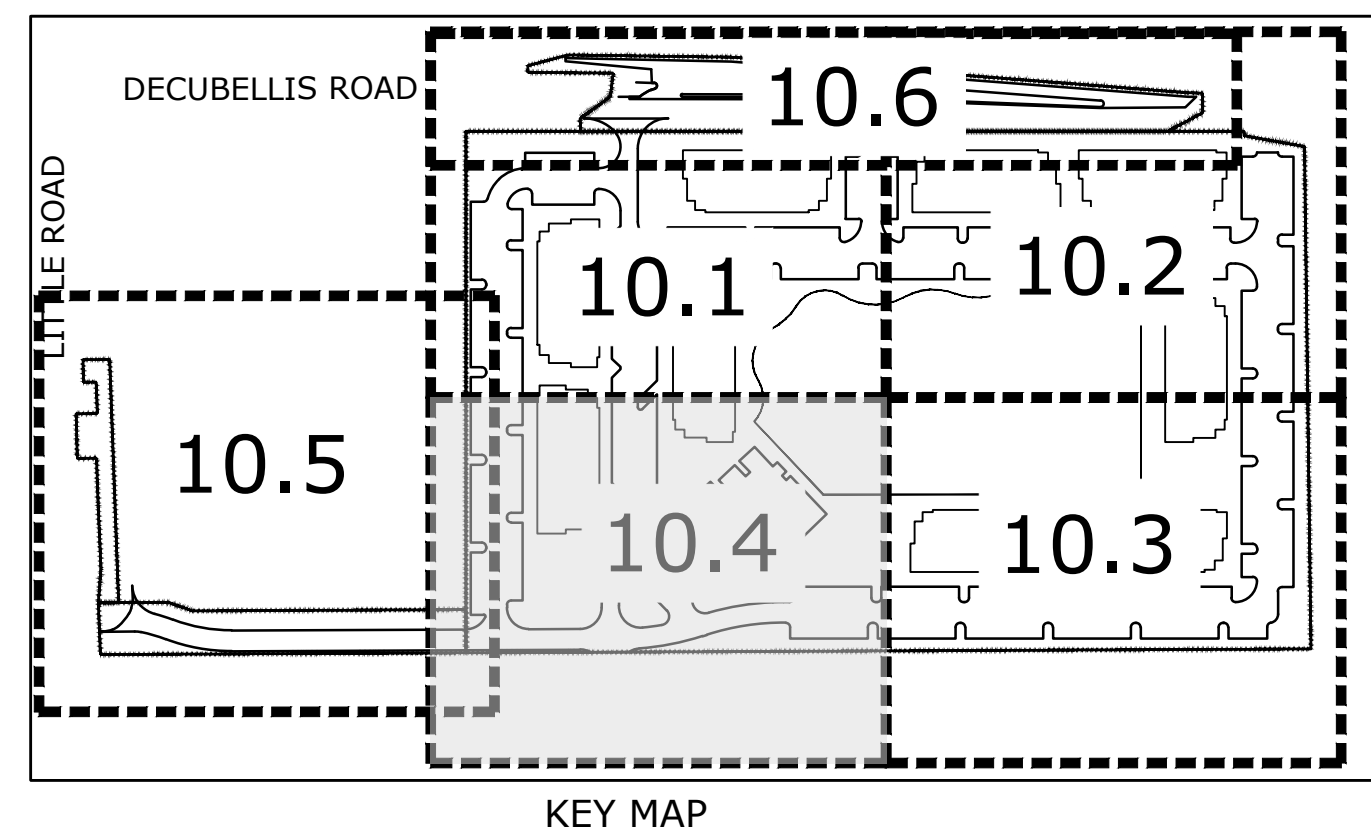
- PROPERTY BOUNDARY
- LANDSCAPE BUFFER
- BUILDING SETBACK
- PHASE LINE
- FENCE (SEE PLANS BY OTHERS)
- LIGHT-DUTY ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
- HEAVY-DUTY ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
- PLATHE ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
- CONCRETE (DOT INDEX NO. 522-001)
- EXISTING ASPHALT
- EXISTING CONCRETE
- TRANSFORMER PAD
- STORM LINE
- PROPOSED STORMWATER STRUCTURES
- GEOTECHNICAL BORINGS
- FLOW DIRECTION



1  
F.F.E. = 27.70  
PAD = 27.28

CH  
F.F.E. = 28.10  
PAD = 27.68

- NOTE:
- FOR DRAINAGE STRUCTURE INFORMATION SEE THE DRAINAGE STRUCTURE TABLE ON SHEET 16 AND FOR OUTFALL CONTROL STRUCTURE INFORMATION SEE THE CONTROL STRUCTURE DETAIL ON SHEET 17.
  - WHERE THE PROPOSED RETAINING WALL IS ADJACENT TO A WET POND WITH SLOPES EXCEEDING 4:1, A 6-FT FENCE IS REQUIRED AT THE TOP OF THE WALL.
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PAVING, DRAINAGE AND GRADING PLAN

AVENTON LITTLE MULTIFAMILY PASCO COUNTY, FLORIDA

REGENCY Design & Engineering, Inc.

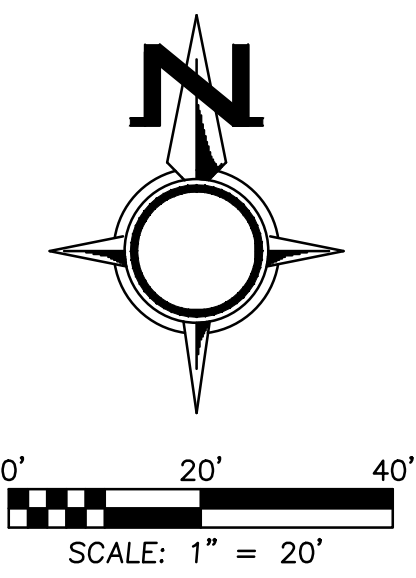
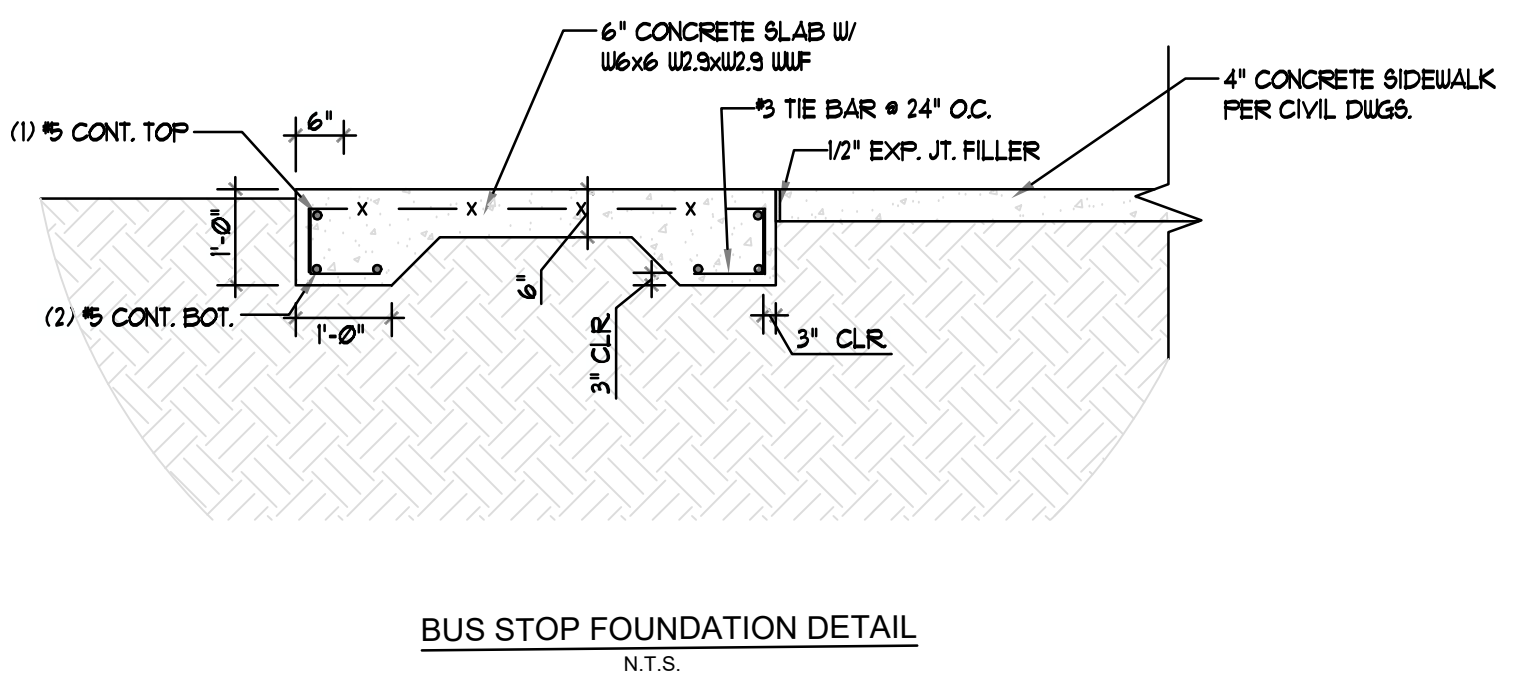
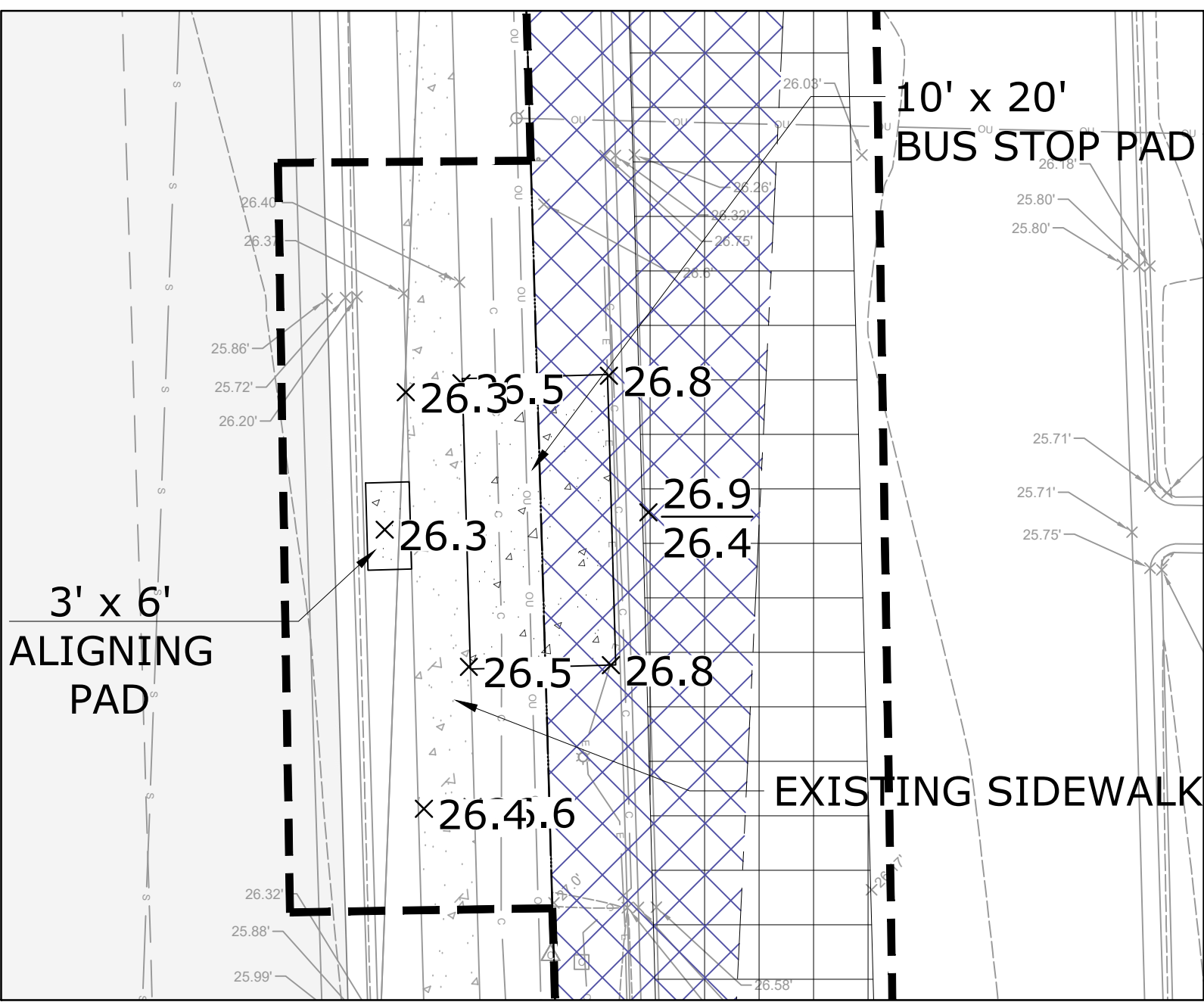
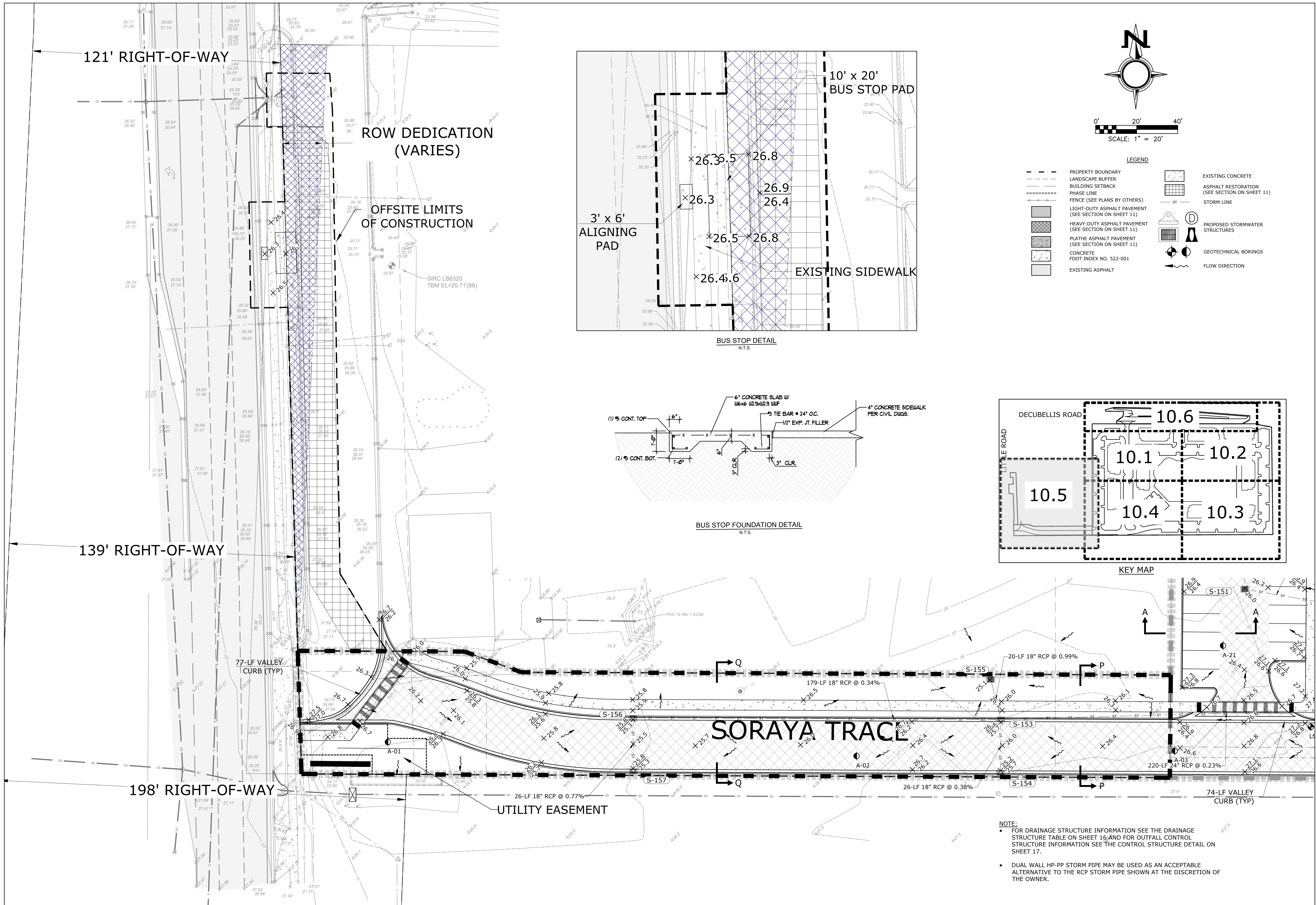
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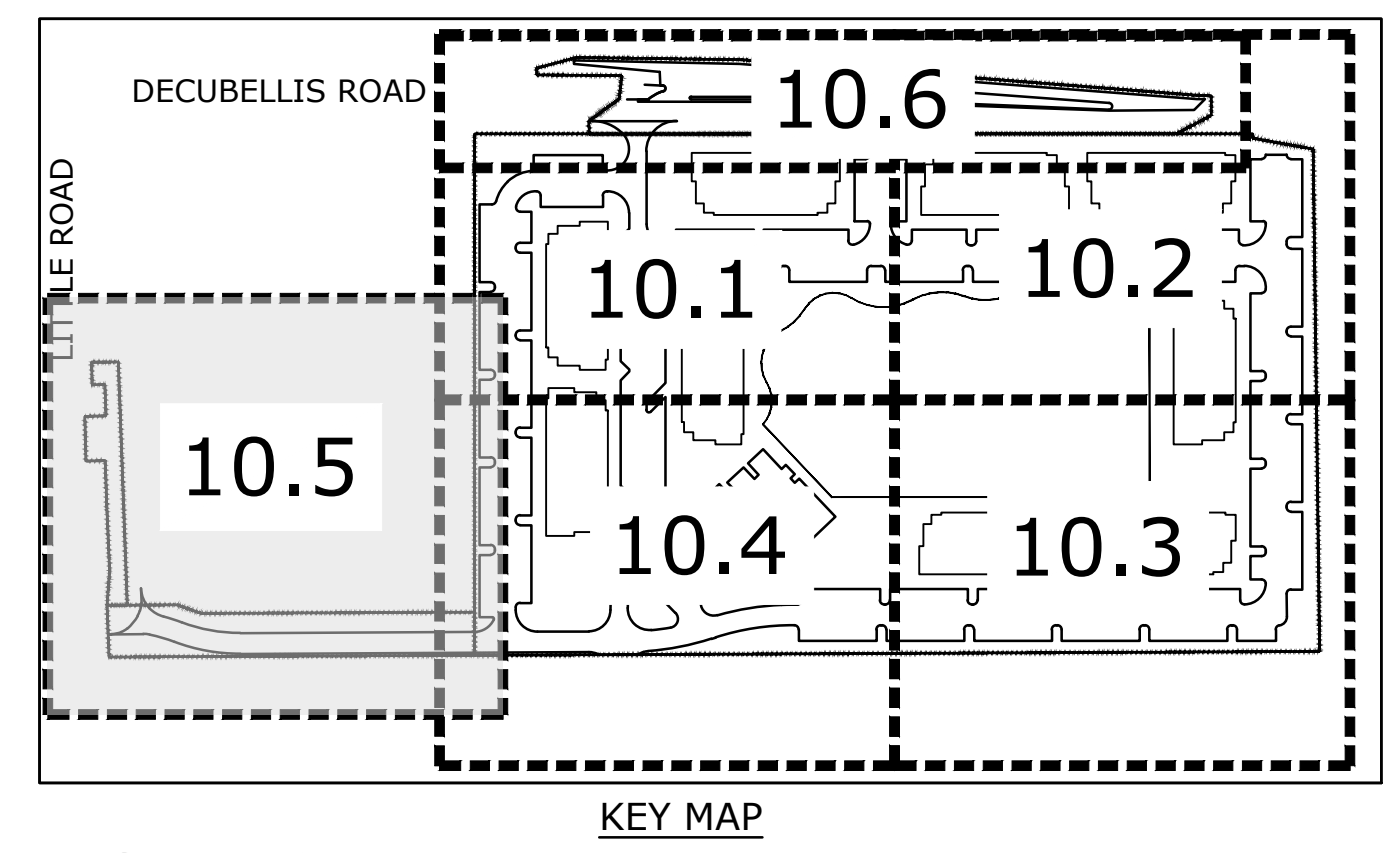
SHEET 10.4

PLOT DATE: 11/16/2023 10:58:00 AM  
 PLOT BY: J. G. GIBSON  
 PROJECT: AVENTON LITTLE MULTIFAMILY PASCO COUNTY, FLORIDA  
 SHEET: 10.4



**LEGEND**

	PROPERTY BOUNDARY		EXISTING CONCRETE
	LANDSCAPE BUFFER		ASPHALT RESTORATION (SEE SECTION ON SHEET 11)
	BUILDING SETBACK		STORM LINE
	PHASE LINE		PROPOSED STORMWATER STRUCTURES
	FENCE (SEE PLANS BY OTHERS)		GEOTECHNICAL BORINGS
	LIGHT-DUTY ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)		FLOW DIRECTION
	HEAVY-DUTY ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)		
	PLATHE ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)		
	CONCRETE		
	FDOT INDEX NO. 522-001		
	EXISTING ASPHALT		



**NOTE:**

- FOR DRAINAGE STRUCTURE INFORMATION SEE THE DRAINAGE STRUCTURE TABLE ON SHEET 16 AND FOR OUTFALL CONTROL STRUCTURE INFORMATION SEE THE CONTROL STRUCTURE DETAIL ON SHEET 17.
- DUAL WALL HP-PP STORM PIPE MAY BE USED AS AN ACCEPTABLE ALTERNATIVE TO THE RCP STORM PIPE SHOWN AT THE DISCRETION OF THE OWNER.

**ACCESS DETAILS - LITTLE**

**AVENTON LITTLE MULTIFAMILY  
PASCO COUNTY, FLORIDA**

---

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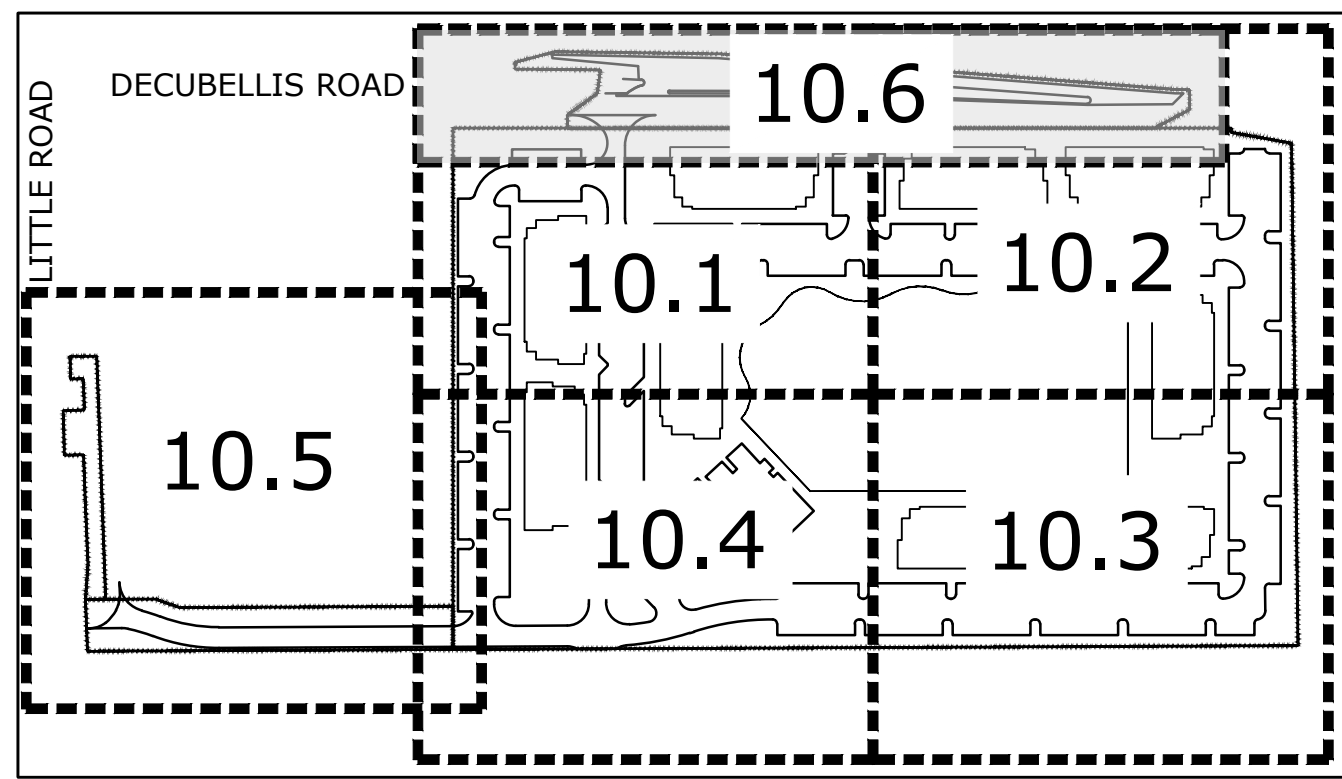
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**SHEET  
10.5**

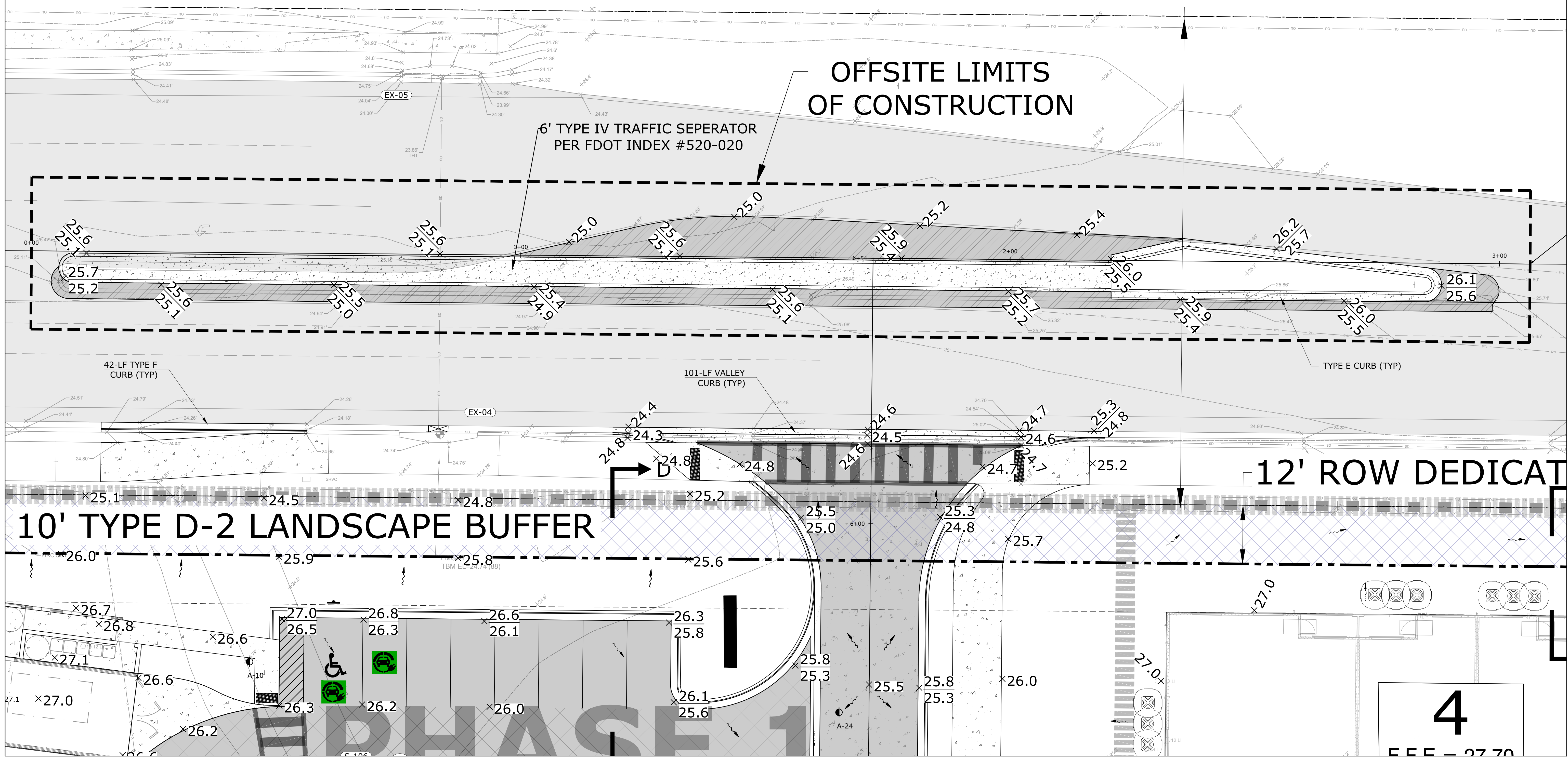
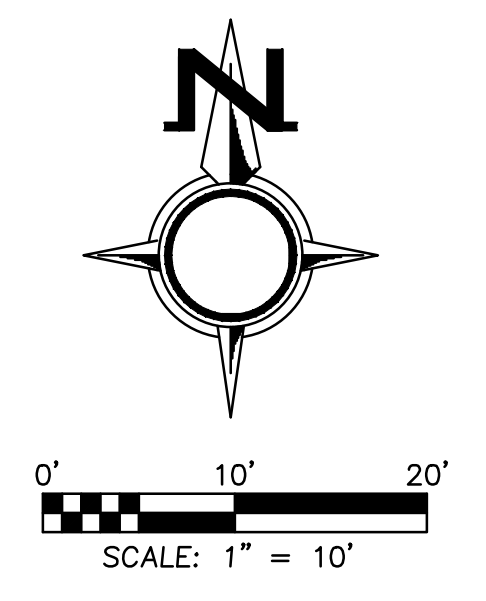
PLOT DATE: 11/16/2023, 10:58:00 AM, 11/17/23  
C:\01-002-Projects\213\_Aventon Little Road Design and Permitting\Drawings\10.5\_Plot.dwg



KEY MAP

LEGEND

- PROPERTY BOUNDARY
- LANDSCAPE BUFFER
- BUILDING SETBACK
- PHASE LINE
- - - - - FENCE (SEE PLANS BY OTHERS)
- LIGHT-DUTY ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
- ▨ HEAVY-DUTY ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
- ▩ PLATHE ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
- ▧ DECUBELLIS ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
- CONCRETE
- FDOT INDEX NO. 522-001
- EXISTING ASPHALT
- EXISTING CONCRETE
- ⊠ TRANSFORMER PAD
- ST — STORM LINE
- ⊙ PROPOSED STORMWATER STRUCTURES
- ⊙ GEOTECHNICAL BORINGS
- FLOW DIRECTION



ACCESS DETAIL - DECUBELLIS  
 AVENTON LITTLE MULTIFAMILY  
 PASCO COUNTY, FLORIDA

DRAWING SHALL UNLESS SPECIFICALLY NOTED & SEALED BY REGISTERED PROFESSIONAL ENGINEER

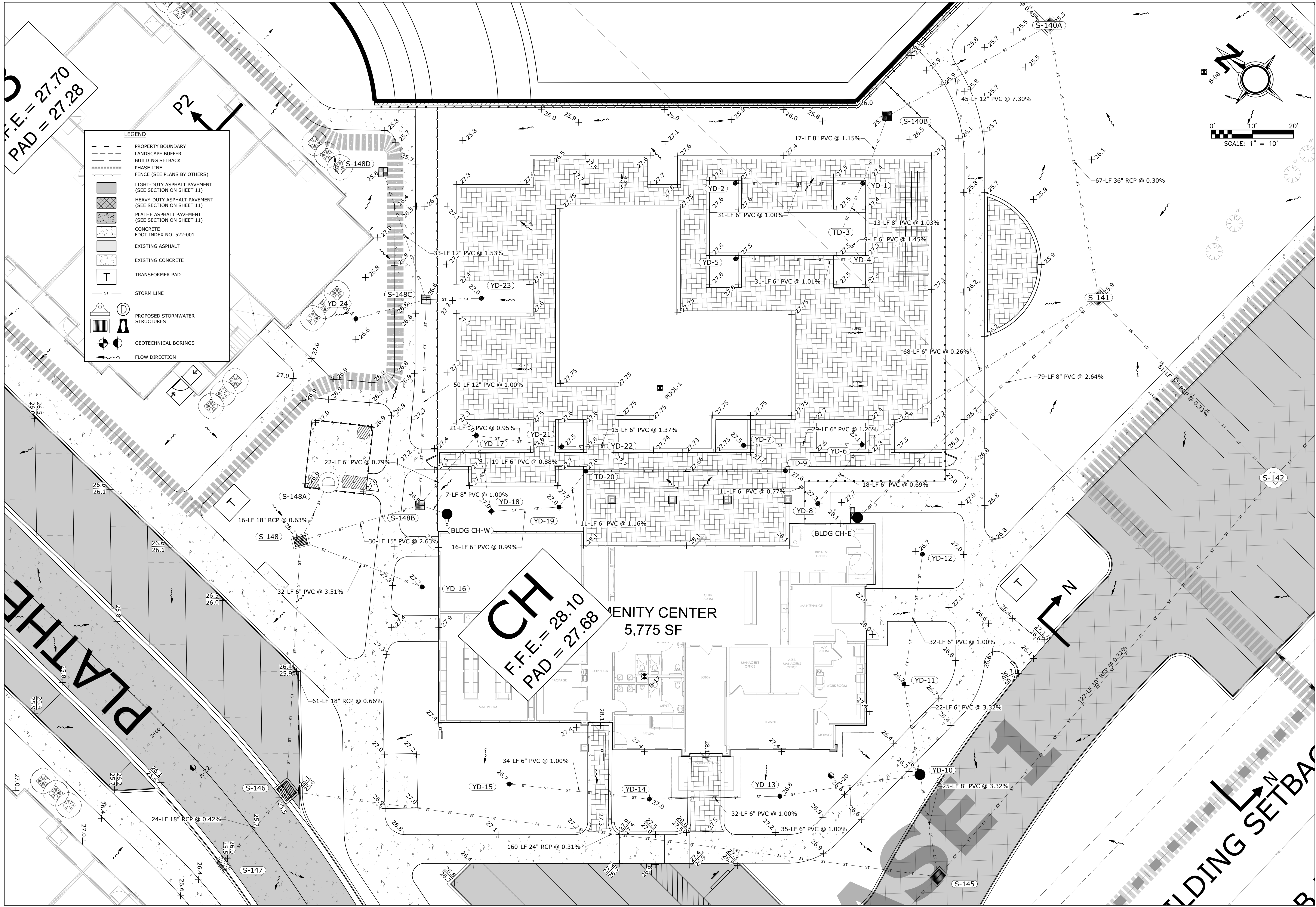
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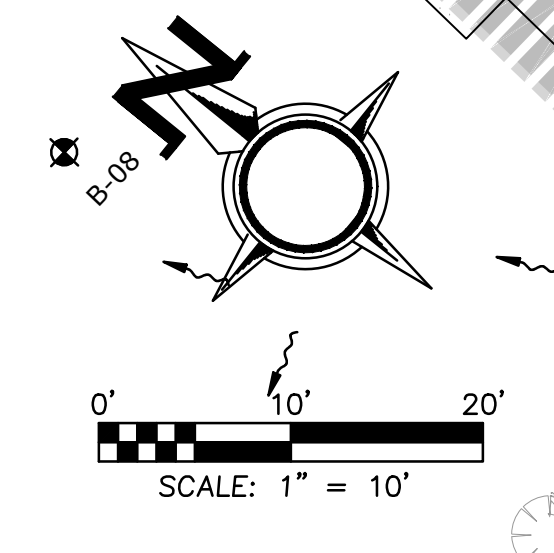
SHEET  
**10.6**

PLOT DATE: 11/15/2024  
 PLOT TIME: 10:00 AM  
 PLOT BY: J. GARDNER  
 PROJECT: AVENTON LITTLE MULTIFAMILY  
 DRAWING: ACCESS DETAIL - DECUBELLIS



**LEGEND**

- PROPERTY BOUNDARY
- LANDSCAPE BUFFER
- BUILDING SETBACK
- PHASE LINE
- FENCE (SEE PLANS BY OTHERS)
- LIGHT-DUTY ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
- HEAVY-DUTY ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
- PLATHE ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
- CONCRETE (FOOT INDEX NO. 522-001)
- EXISTING ASPHALT
- EXISTING CONCRETE
- TRANSFORMER PAD
- ST --- STORM LINE
- PROPOSED STORMWATER STRUCTURES
- GEOTECHNICAL BORINGS
- FLOW DIRECTION



PAVING, DRAINAGE AND GRADING PLAN

AVENTON LITTLE MULTIFAMILY  
PASCO COUNTY, FLORIDA

REGENCY  
Design & Engineering, Inc.

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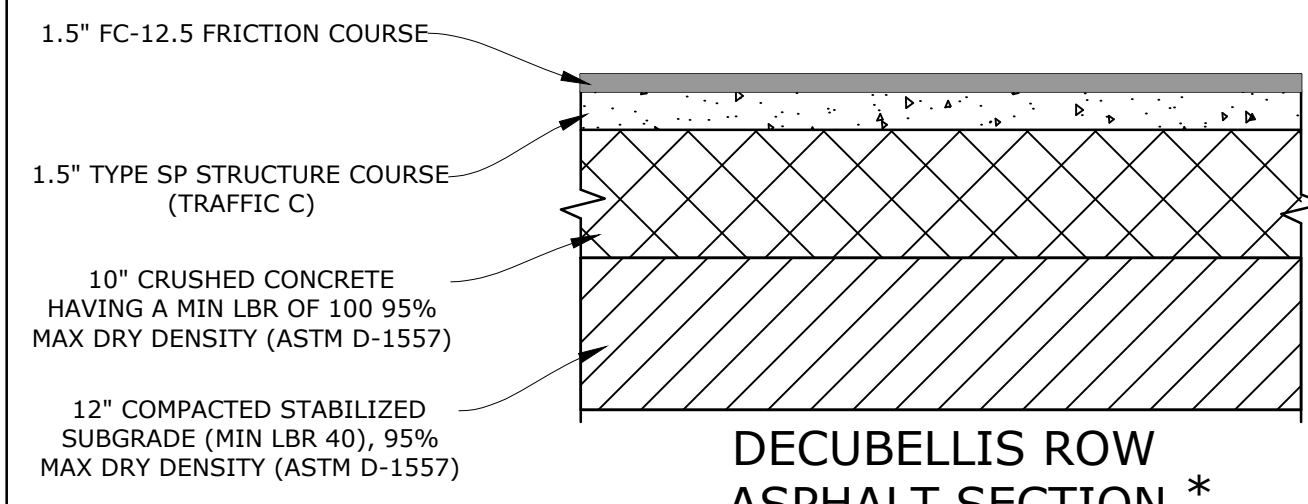
REVISION

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SHEET  
**10.7**

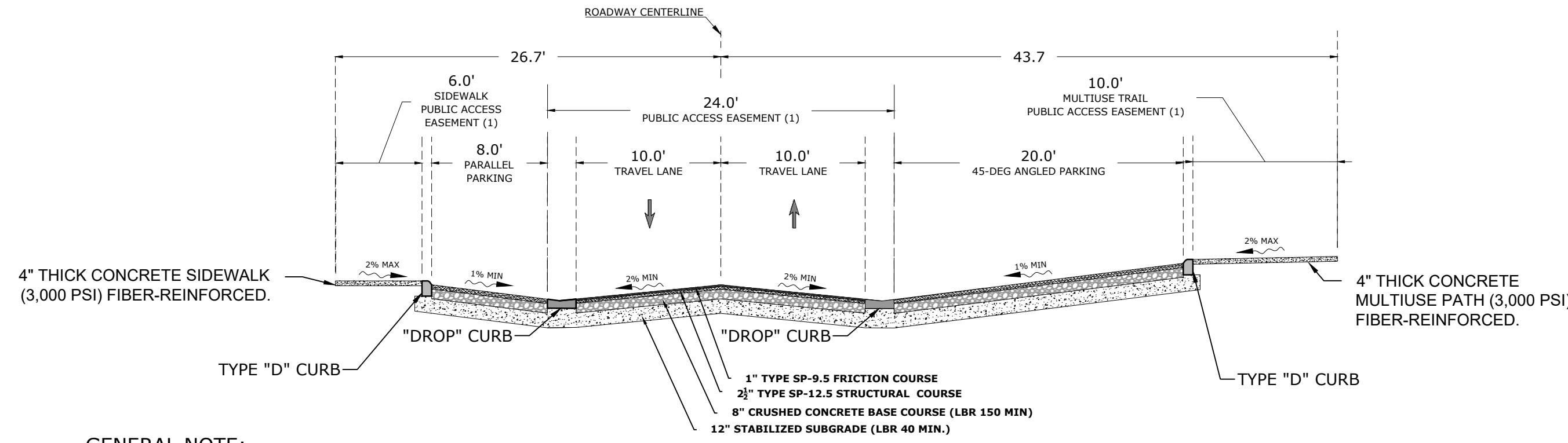
PLOT DATE: 11/16/2023, 11:58:00 AM  
 PLOT BY: J. GARDNER  
 PROJECT: AVENTON LITTLE MULTIFAMILY  
 SHEET: 10.7



$$S.N. = (1.5 \times 0.44) + (1.5 \times 0.44) + (10 \times 0.18) + (12 \times 0.08) = 4.08$$

\* CONTRACTOR MAY USE OBG 9, 14 OR 15 IN LIEU OF THE SPECIFIED PAVEMENT SECTION ABOVE

- NOTE:  
1. ASPHALTIC CONCRETE SHALL MEET FDOT REQUIREMENTS AND PLACEMENT PROCEDURES AS OUTLINED IN THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION). THE ASPHALTIC CONCRETE SHALL BE COMPACTED TO A MINIMUM OF 93% (6MM) OF THE MAXIMUM THEORETICAL SPECIFIC GRAVITY.



GENERAL NOTE:

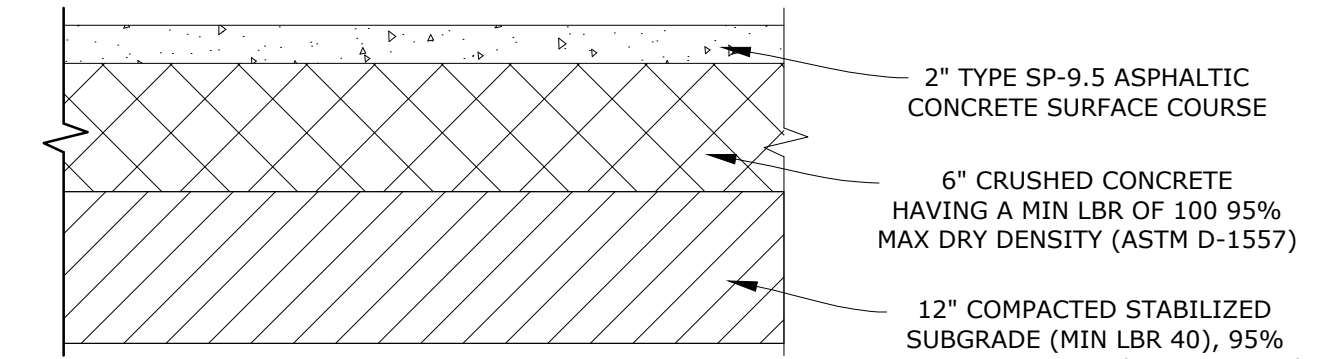
- (1) PUBLIC ACCESS EASEMENT OVER THE TRAVEL LANES, 6-FOOT SIDEWALK AND 10-FOOT MULTIUSE TRAIL WILL BE CONVEYED TO THE COUNTY.

DESIGN SPEED AND ROADSIDE DIMENSIONS ARE MINIMUMS. SITE CONDITION MAY REQUIRE INCREASES.

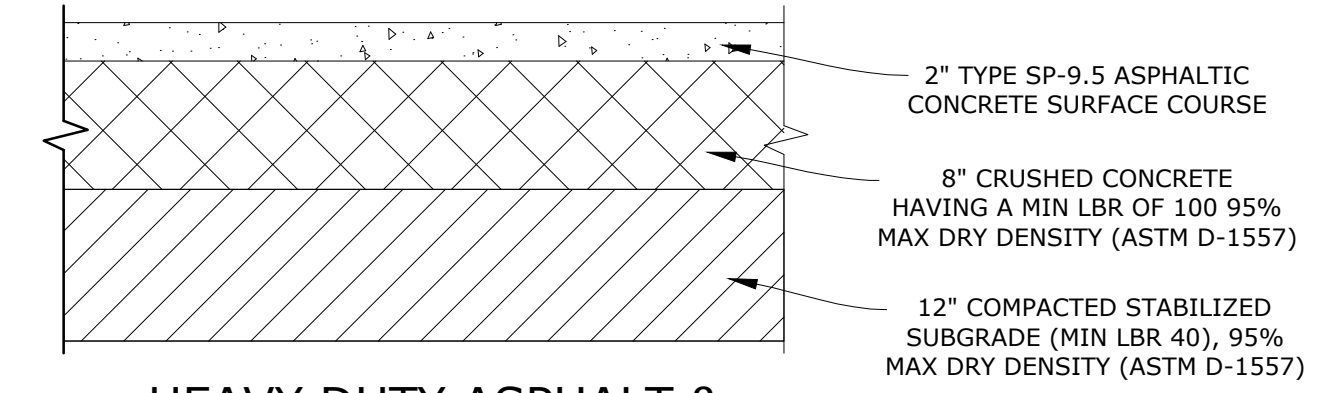
\* VARIANCE IN HORIZONTAL DESIGN SPEED ALLOWED WITH JUSTIFICATION AND APPROPRIATE SIGNAGE.

ALL DIMENSIONS & LABELS ARE TYPICAL (TYP.)

TYPICAL ROADWAY SECTION  
PLATHE ROAD  
STA. 0+00.00 - STA. 6+47.77  
DESIGN SPEED = 30 MPH



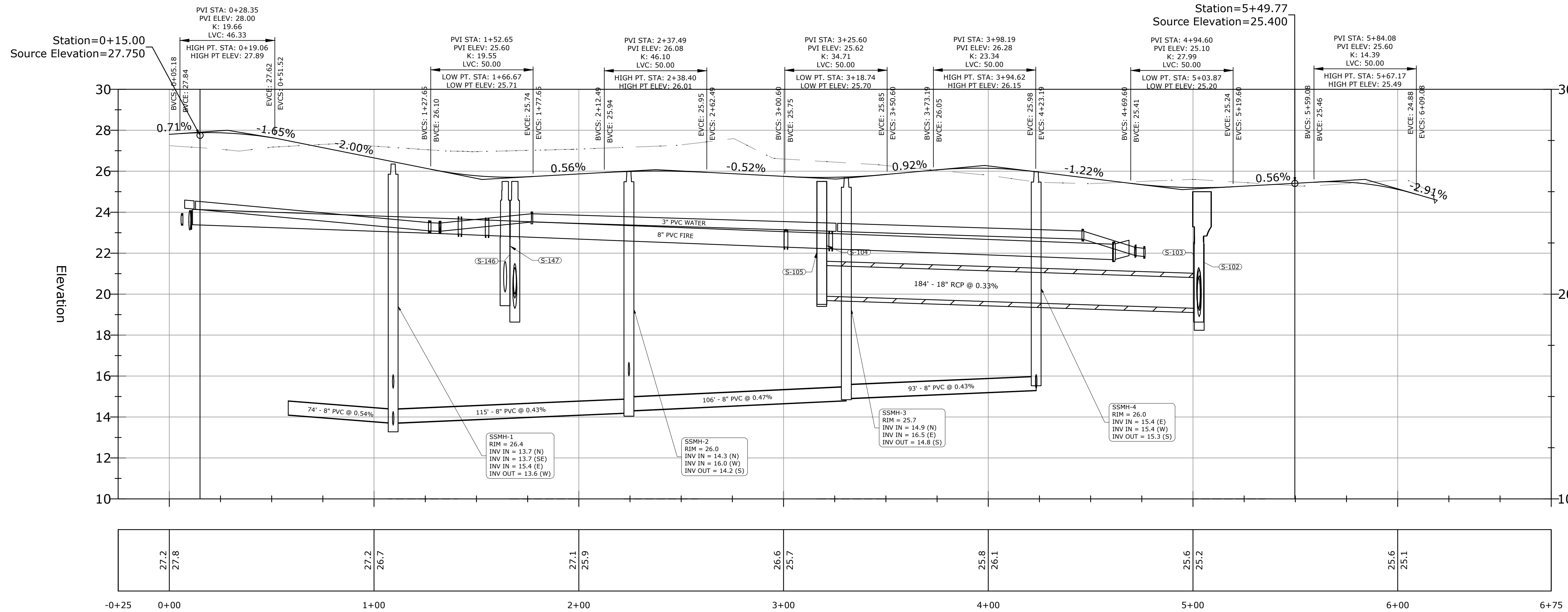
$$S.N. = (2.0 \times 0.44) + (6 \times 0.18) + (12 \times 0.08) = 2.92$$



$$S.N. = (2.0 \times 0.44) + (8 \times 0.18) + (12 \times 0.08) = 3.28$$

NOTE:

1. ASPHALTIC CONCRETE SHALL MEET FDOT REQUIREMENTS AND PLACEMENT PROCEDURES AS OUTLINED IN THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION). THE ASPHALTIC CONCRETE SHALL BE COMPACTED TO A MINIMUM OF 93% (6MM) OF THE MAXIMUM THEORETICAL SPECIFIC GRAVITY.
2. ALTERNATIVE BASE MATERIAL OF SOIL CEMENT OR LIMEROCK MAY BE USED IN LIEU OF THE SPECIFIED CRUSHED CONCRETE AT THE DISCRETION OF THE PROJECT ENGINEER. USE OF THIS ALTERNATIVE MATERIAL MUST BE APPROVED BY THE PROJECT ENGINEER PRIOR TO PLACEMENT AND MUST BE INSTALLED PER PASCO COUNTY SPECIFICATIONS.
3. FOR HEAVY DUTY SECTION, THE 2" TYPE SP-9.5 ASPHALTIC CONCRETE SURFACE COURSE IS TO BE SPLIT INTO 1" LIFTS.

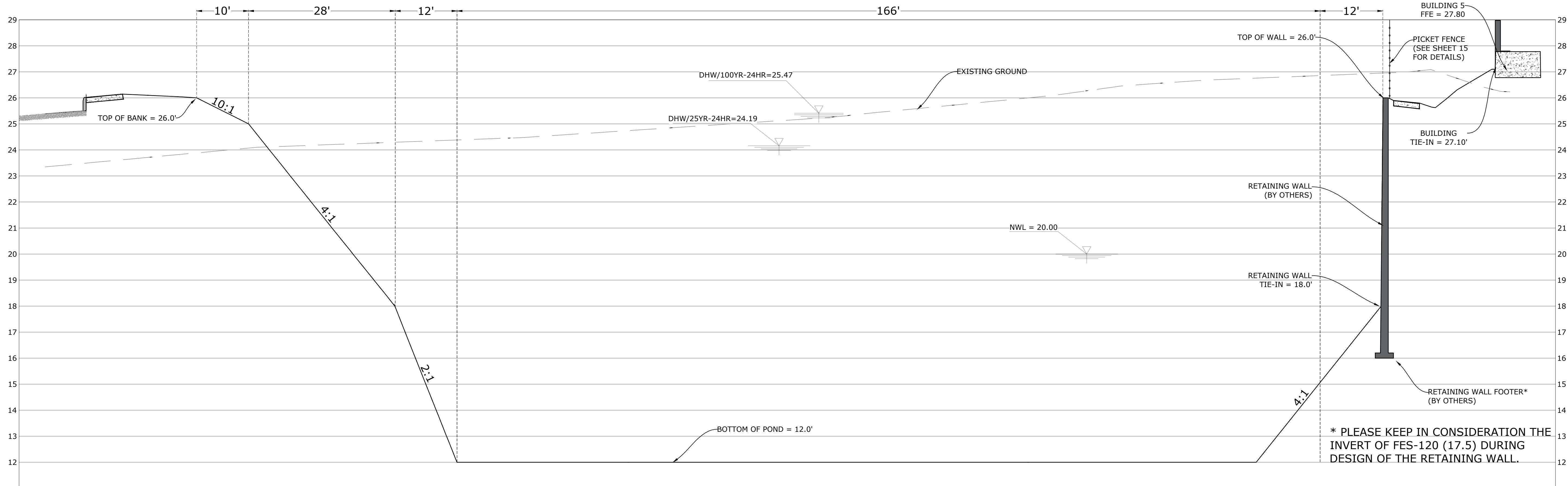


PLATHE ROAD PROFILE  
HORIZONTAL: 1" = 30'  
VERTICAL: 1" = 3'

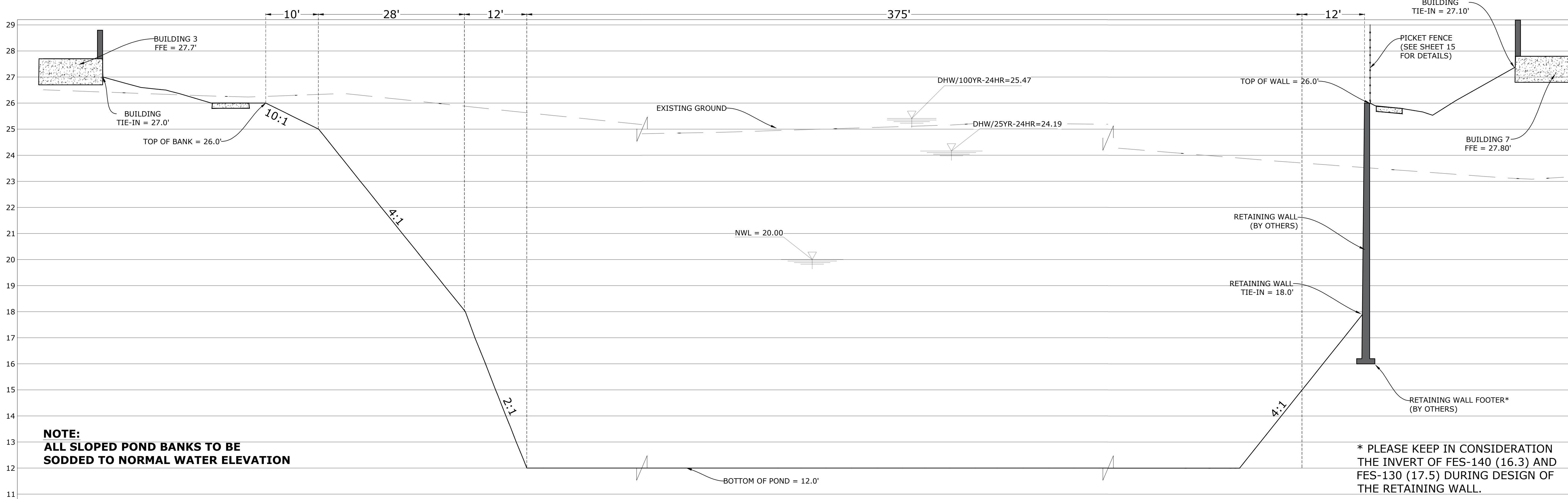
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DATE	REV. BY	REV. NO.

PLAT DATE/TIME: Monday, February 09, 2006 @ 11:23 AM  
K:\01\_Road\_Profile\Projects\2006\_Aventon Little Road Design and Permitting\Drawings\AutoCAD\PLATFILES.dwg



**P1**  
HORIZONTAL: 1" = 10'  
VERTICAL: 1" = 2'



**P2**  
HORIZONTAL: 1" = 10'  
VERTICAL: 1" = 2'

**NOTE:**  
ALL SLOPED POND BANKS TO BE  
SODDED TO NORMAL WATER ELEVATION

\* PLEASE KEEP IN CONSIDERATION THE  
INVERT OF FES-120 (17.5) DURING  
DESIGN OF THE RETAINING WALL.

\* PLEASE KEEP IN CONSIDERATION THE  
INVERT OF FES-140 (16.3) AND  
FES-130 (17.5) DURING DESIGN OF  
THE RETAINING WALL.

**POND SECTIONS**  
**AVENTON LITTLE MULTIFAMILY**  
**PASCO COUNTY, FLORIDA**

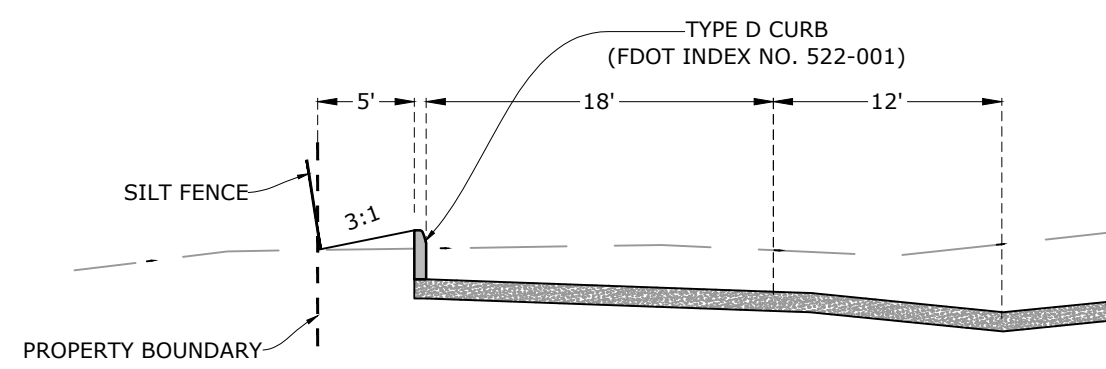
DRAWING WALID UNLESS SHOWN, DATED & SEALED BY REGISTERED PROFESSIONAL  
JAMES P. GRABER, P.E. # 93212

**REGENCY**  
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CERTIFICATE OF AUTHORIZATION NO. 28366

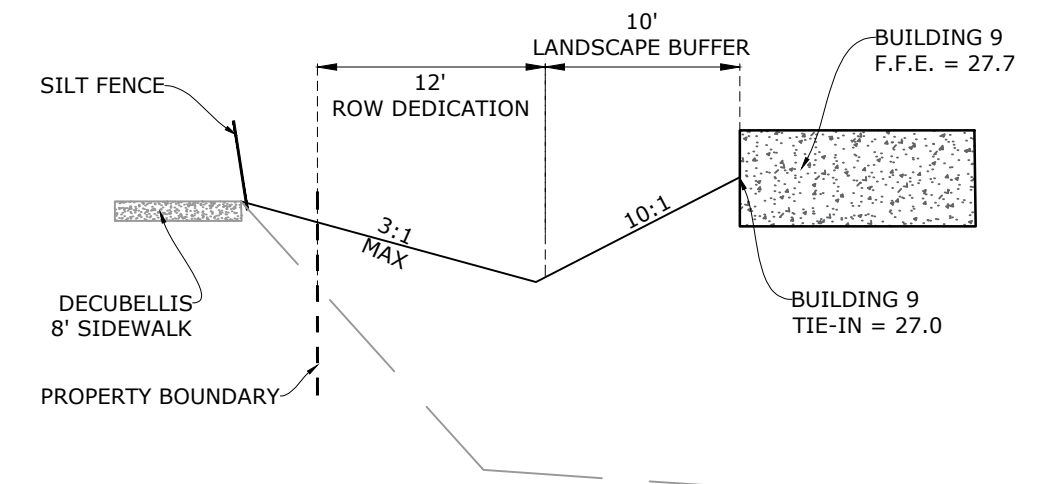
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DATE	REV. BY	REV. NO.	REVISION

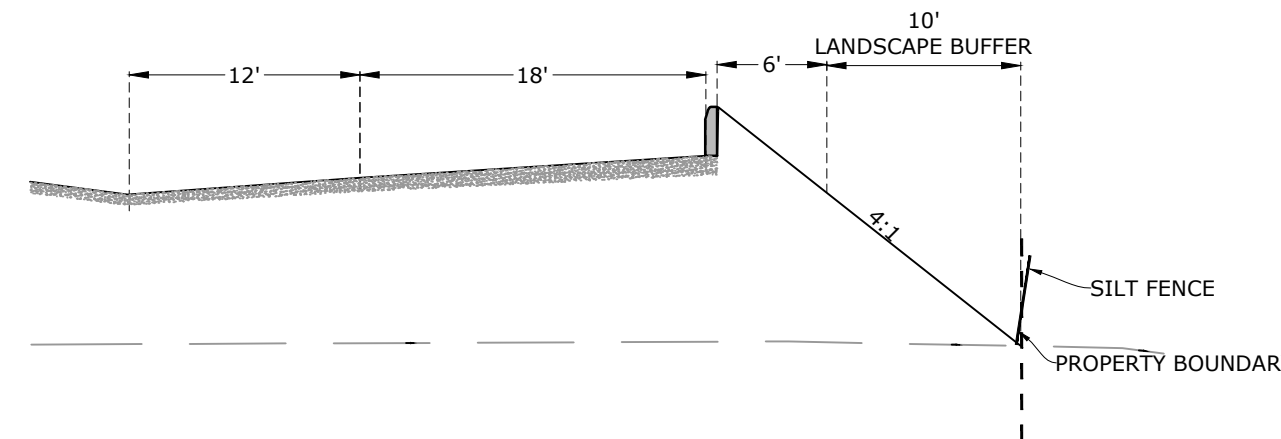
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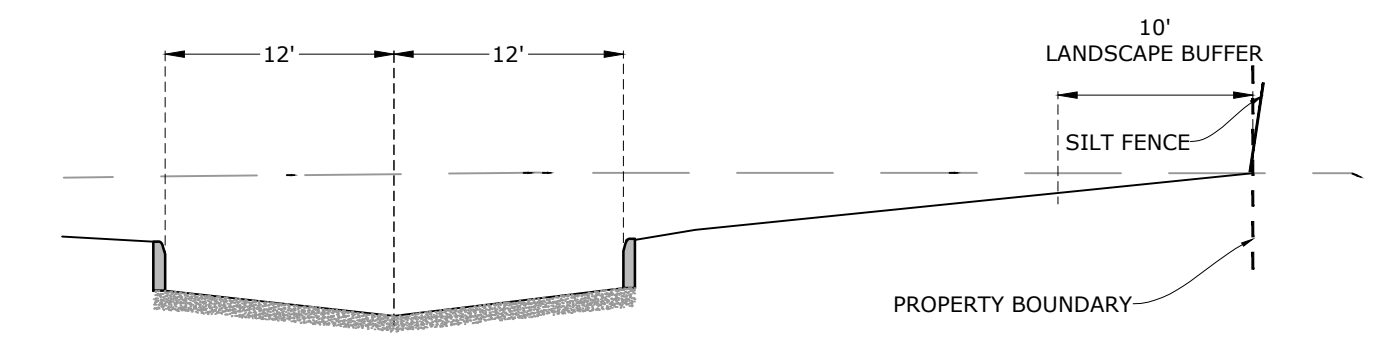
**Section A**  
 HORIZONTAL: 1" = 10'  
 VERTICAL: 1" = 2'



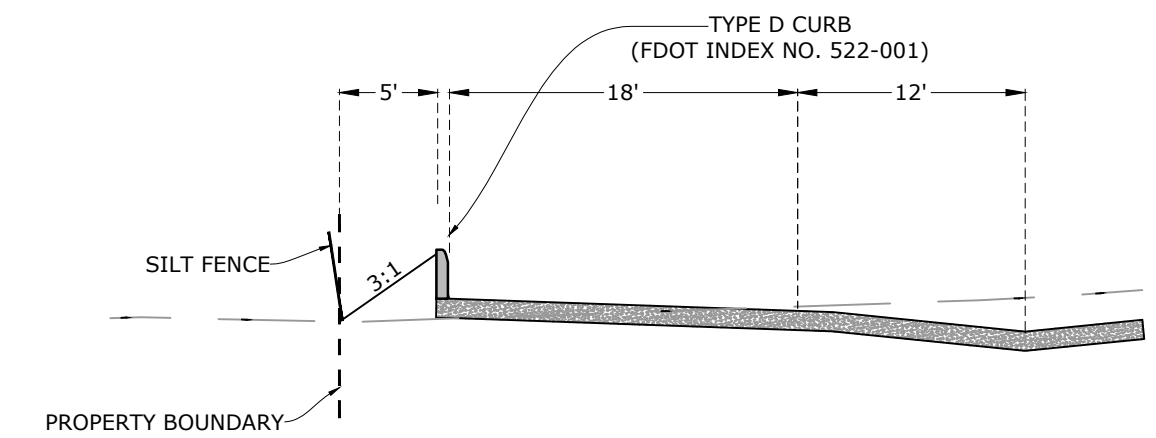
**Section F**  
 HORIZONTAL: 1" = 10'  
 VERTICAL: 1" = 2'



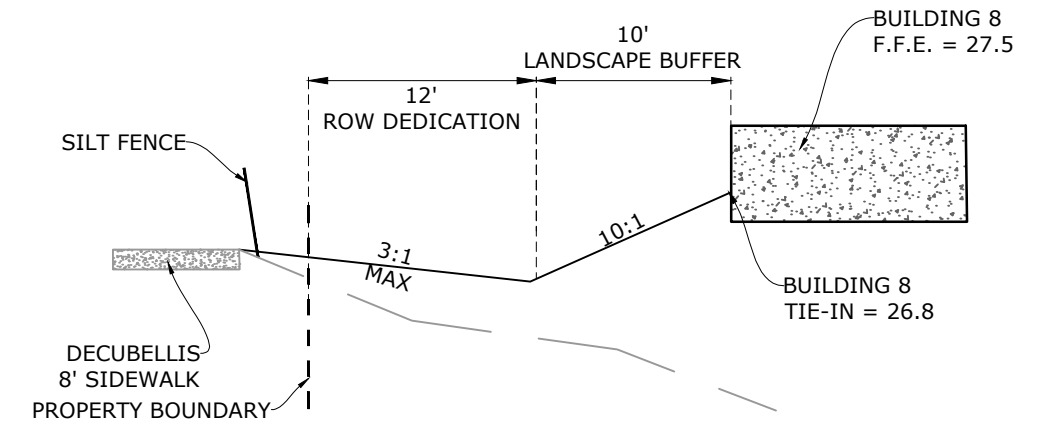
**Section J**  
 HORIZONTAL: 1" = 10'  
 VERTICAL: 1" = 2'



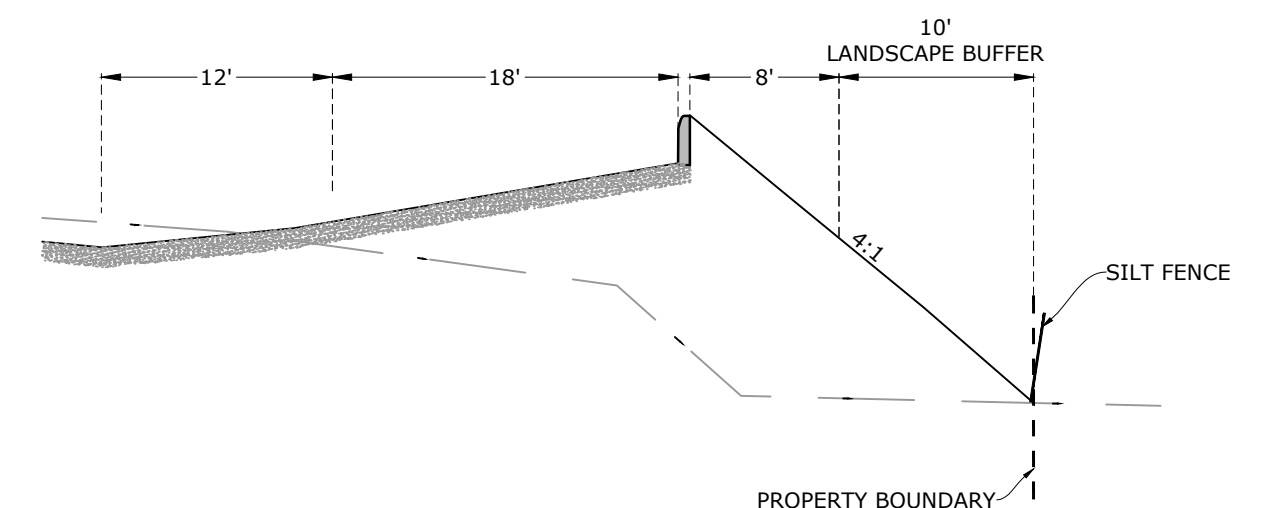
**Section N**  
 HORIZONTAL: 1" = 10'  
 VERTICAL: 1" = 2'



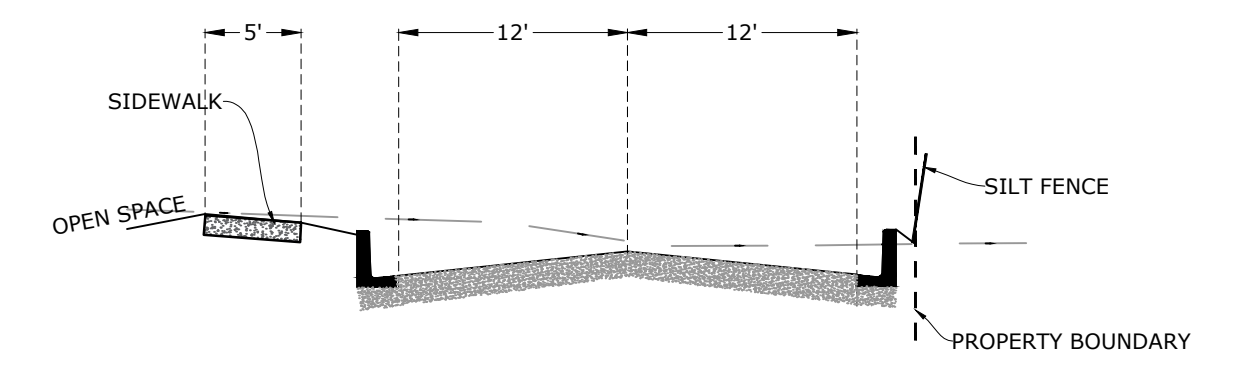
**Section B**  
 HORIZONTAL: 1" = 10'  
 VERTICAL: 1" = 2'



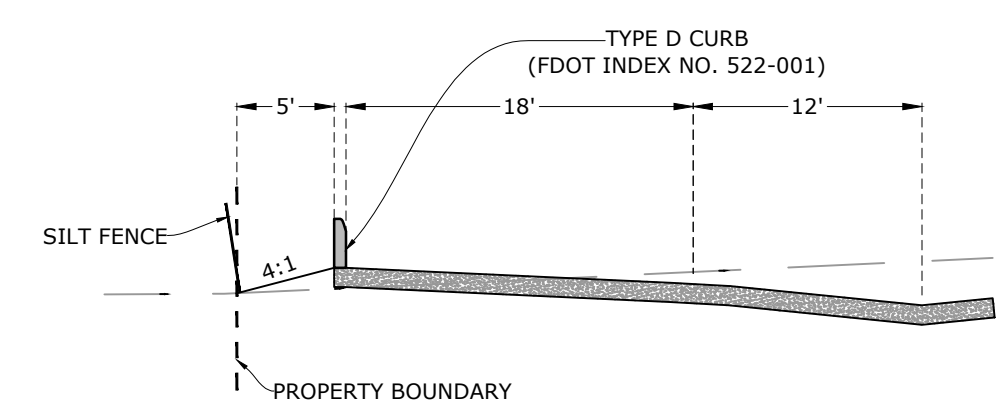
**Section G**  
 HORIZONTAL: 1" = 10'  
 VERTICAL: 1" = 2'



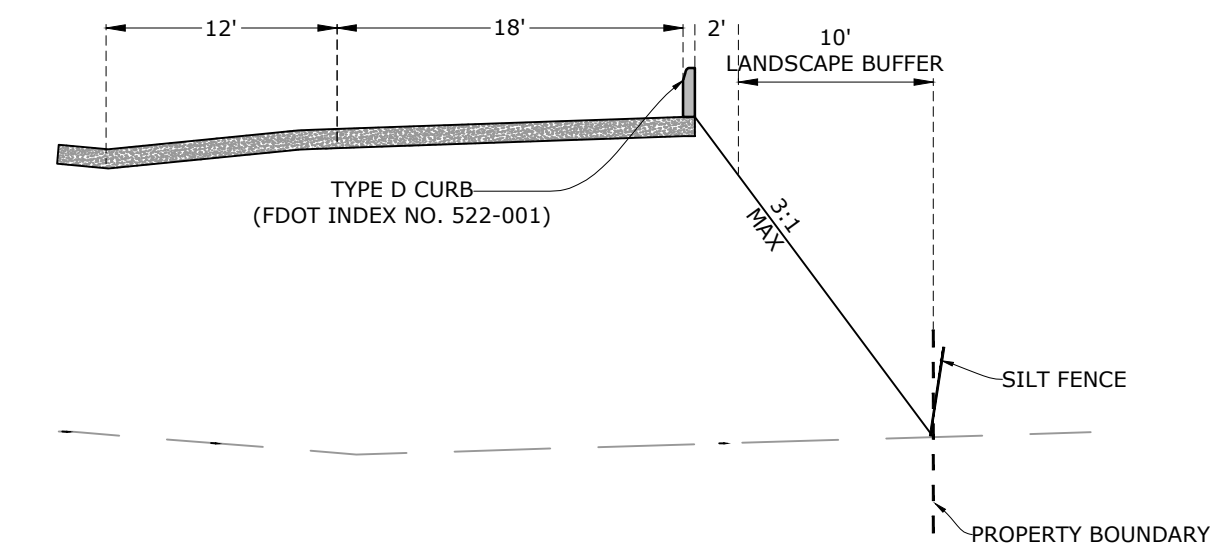
**Section K**  
 HORIZONTAL: 1" = 10'  
 VERTICAL: 1" = 2'



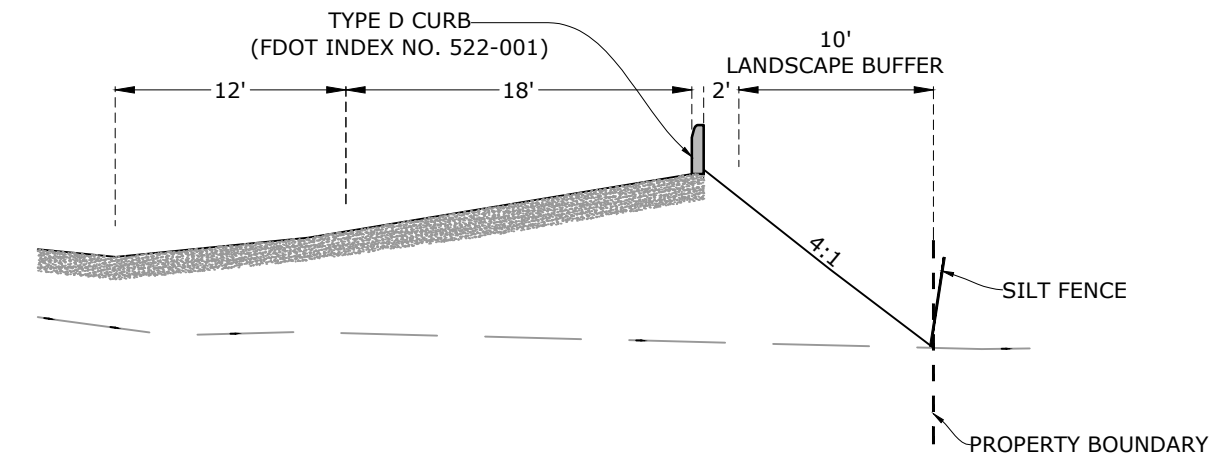
**Section O**  
 HORIZONTAL: 1" = 10'  
 VERTICAL: 1" = 2'



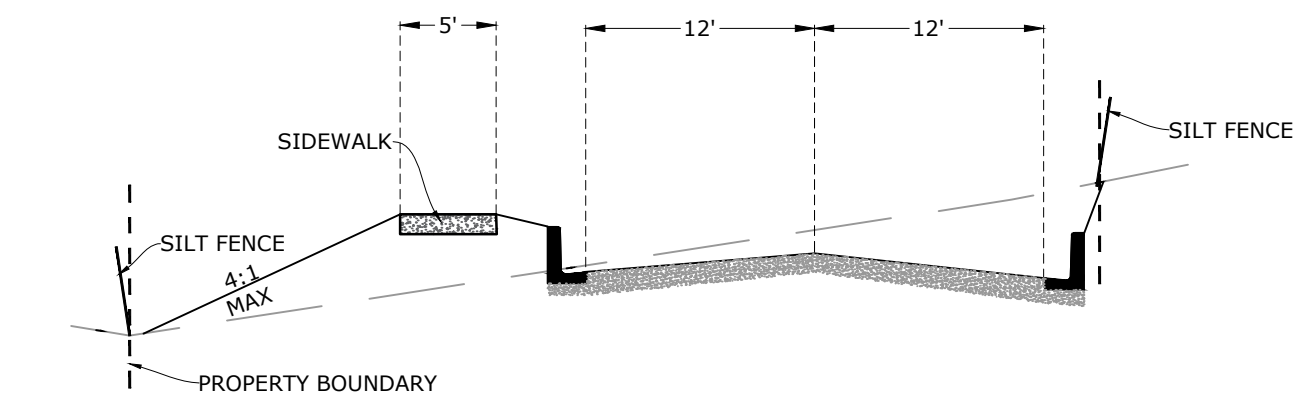
**Section C**  
 HORIZONTAL: 1" = 10'  
 VERTICAL: 1" = 2'



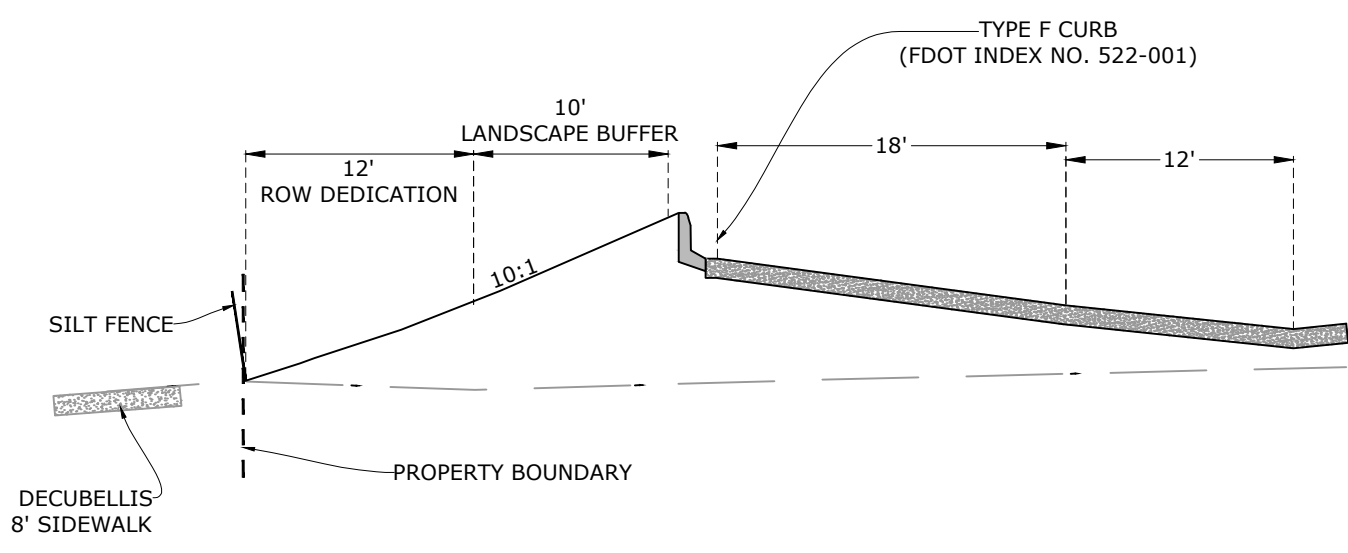
**Section H**  
 HORIZONTAL: 1" = 10'  
 VERTICAL: 1" = 2'



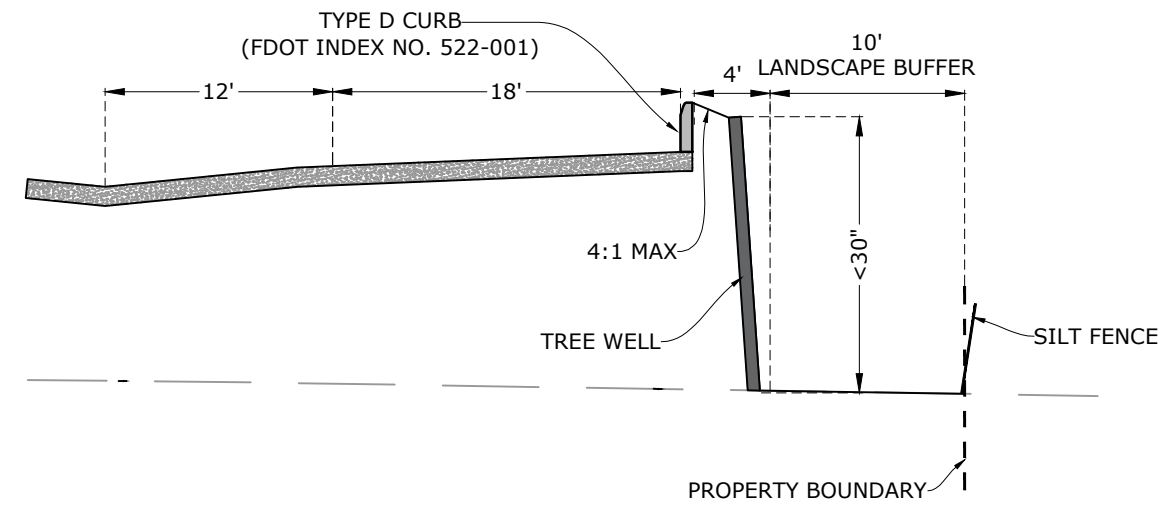
**Section L**  
 HORIZONTAL: 1" = 10'  
 VERTICAL: 1" = 2'



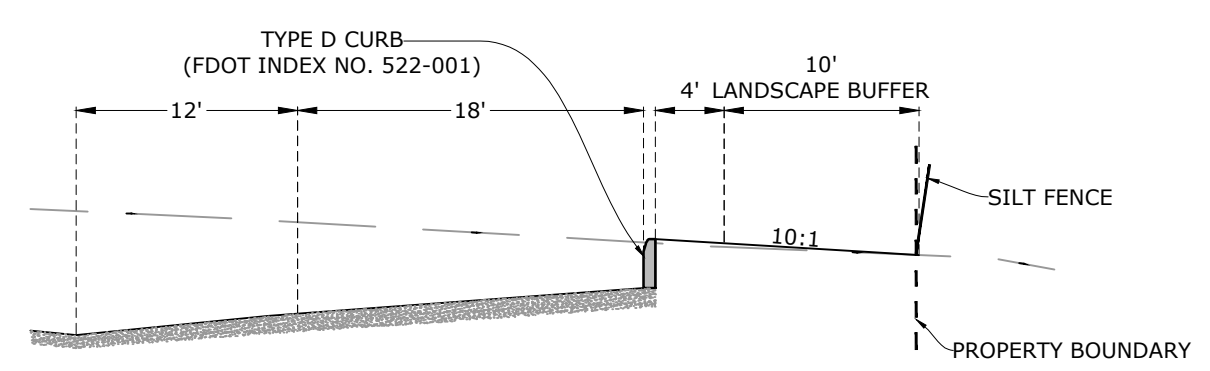
**Section P**  
 HORIZONTAL: 1" = 10'  
 VERTICAL: 1" = 2'



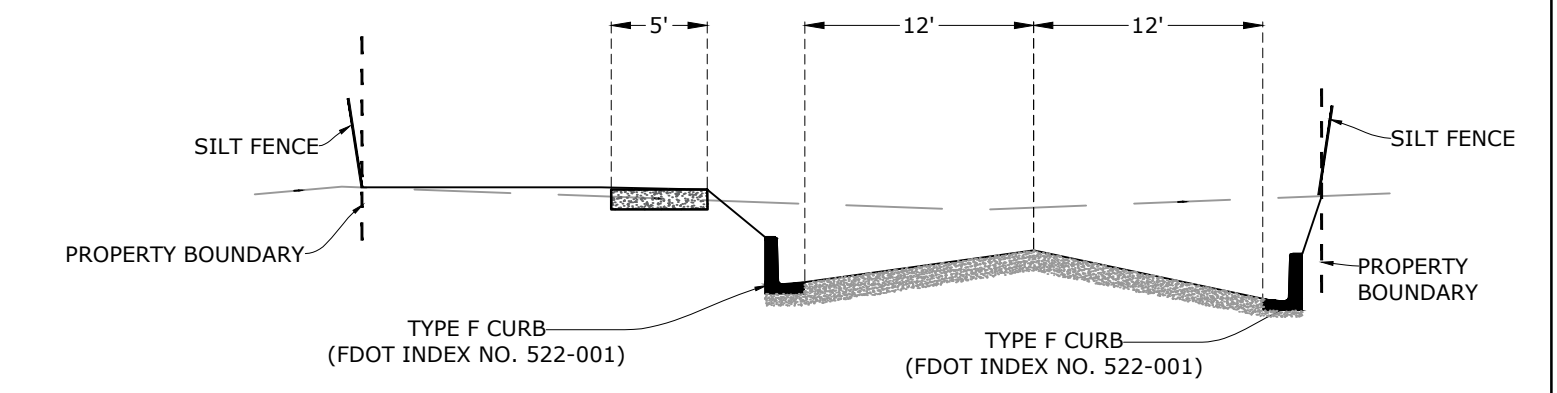
**Section D**  
 HORIZONTAL: 1" = 10'  
 VERTICAL: 1" = 2'



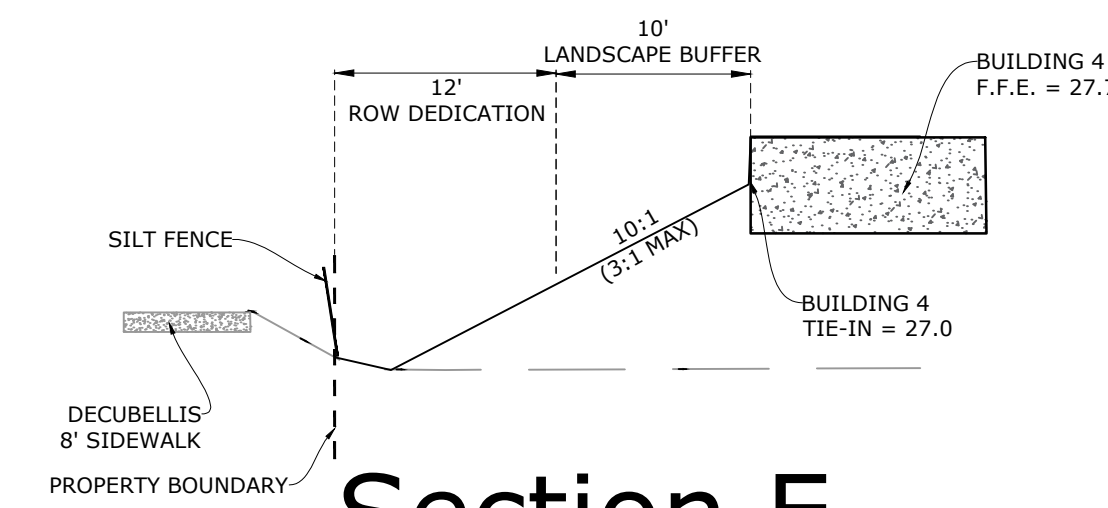
**Section I**  
 HORIZONTAL: 1" = 10'  
 VERTICAL: 1" = 2'



**Section M**  
 HORIZONTAL: 1" = 10'  
 VERTICAL: 1" = 2'



**Section Q**  
 HORIZONTAL: 1" = 10'  
 VERTICAL: 1" = 2'



**Section E**  
 HORIZONTAL: 1" = 10'  
 VERTICAL: 1" = 2'

PLOT DATE/TIME: Monday, February 09, 2026 @ 11:05 AM  
 K:\01\_Road\Projects\2021\_Aventon Little Road Design and Permitting\Drawings\CD\13\_PDFFILES.dwg

**TYPICAL SECTIONS**  
 AVENTON LITTLE MULTIFAMILY  
 PASCO COUNTY, FLORIDA

DRAWING WALID UNLESS SIGNED, DATED & SEALED BY REGISTERED PROFESSIONAL  
 JAMES P. GRABER, P.E. # 93232

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REVISION	DATE	REV. BY	REV. NO.

PASCO COUNTY STANDARD UTILITY NOTES:

- PASCO COUNTY SHALL NOT OWN OR MAINTAIN ANY WATER LINES, SEWER LINES, OR FACILITIES CONSTRUCTED ON PRIVATE PROPERTY.
- ALL MATERIALS AND LABOR SHALL MEET THE SPECIFICATIONS REQUIRED BY THE COUNTY. ALL CONSTRUCTION SHALL BE PERFORMED UNDER THE INSPECTION OF THE COUNTY AND IN STRICT COMPLIANCE WITH THE STANDARDS OF THE COUNTY DESIGN STANDARDS.
- ALL NEWLY INSTALLED WATER DISTRIBUTION MAINS AND SERVICE LATERALS SHALL BE COLOR CODED BLUE.
- ALL NEWLY INSTALLED FORCE MAINS AND GRAVITY LINES SHALL BE COLOR CODED GREEN.
- CONNECTIONS TO THE COUNTY'S SYSTEM SHALL BE MADE BY WET TAP. WET TAPS SHALL BE PERFORMED EXCLUSIVELY BY PASCO COUNTY UTILITIES AT THE DEVELOPER'S EXPENSE. EXCAVATION, BACKFILL, AND SURFACE RESTORATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- CONTRACTOR'S RESPONSIBILITIES REGARDING WET TAPS TWO INCHES AND LARGER SHALL BE AS FOLLOWS:  
 2" ONLY: THE 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 TO PROVIDE, AND CONDUCT A PRESSURE TEST. COUNTY PERSONNEL WILL WITNESS THE PRESSURE TEST WHICH MUST BE AT 150 PSI FOR DURATION OF THIRTY MINUTES.  
 THE CONTRACTOR IS RESPONSIBLE FOR THE EXCAVATION BEFORE ANY COUNTY PERSONNEL WILL ENTER AN EXCAVATED AREA. IF THE TRENCH IS FOUR FEET IN DEPTH OR DEEPER, IT WILL REQUIRE A TRENCH BOX OR SLOPING, AND A LADDER ACCORDING TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.  
 THE TAPPING VALVE WILL REQUIRE A BLOCKING DEVICE MADE OF SUITABLE MATERIAL OR DEVICE. THIS BLOCKING DEVICE OR MATERIAL 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 NELSON D. HOLT, MAINTENANCE SUPERVISOR, UTILITIES SERVICES BRANCH, AT (813) 235 6189, OR E-MAIL NHOLT@PASCOCOUNTYFL.NET.
- FIRE HYDRANTS SHALL BE FLOW-TESTED AND COLOR-CODED BASED ON FLOW RESULTS.
- PRIVATE FIRE LINES AND HYDRANTS SHALL BE INSTALLED ONLY BY A FLORIDA STATE CERTIFIED FIRE SYSTEM CONTRACTOR.
- THE REQUIRED FIRE FLOW FOR THE PROPOSED USE IS 2,000 GPM AT 20 PSI FOR A DURATION OF 2 HOURS.
- FIRE DEPARTMENT CONNECTIONS ARE BUILDING MOUNTED AND TO BE INCLUDED IN THE ABOVE GROUND PERMIT SCOPE OF WORK.

FIRE LINE NOTES:

- IN BUILDING RISER (IBR) SHALL BE PROVIDED WITH FLANGE 1.0 FT. ABOVE FINISHED FLOOR ELEVATION. SEE ARCHITECTURAL PLANS FOR LOCATION.
- THE FDC SHALL BE A 5 INCH, 30° STORZ TYPE CONNECTION WITH CAP AND CHAIN.
- NOTE: FIRE INSPECTOR SHALL VIEW REFERENCE MARK ON UNDERGROUND PIPE BEFORE ACCEPTABLE CORROSION-RETARDING MATERIAL IS APPLIED AS PER PIPE MANUFACTURER. EACH MALE END IS BEVELED TO FACILITATE JOINT ASSEMBLY AND THE SPIGOT IS REFERENCED MARKED TO ENSURE PROPER INSERTION DEPTH.
- PER NFPA 24:10.4.2.2.6, WHERE PRIVATE FIRE SERVICE MAINS ARE INSTALLED ABOVE GROUND, THEY SHALL BE PROTECTED WITH BOLLARDS OR OTHER MEANS APPROVED BY THE AHJ WHEN SUBJECT TO MECHANICAL DAMAGE.
- PAPERWORK THAT IS COMPLIANT WITH NFPA 24:10.10.1 SHALL BE POSTED ON THE JOBSITE BEFORE INSPECTIONS ARE CALLED.

GENERAL NOTES:

- ALL UTILITY WORK IS TO BE COMPLETED DURING PHASE 1 CONSTRUCTION.

FIXTURE COUNT TABLE

FIXTURE	Fixture Value at 35 psi	No. of Fixtures	Fixture Value
Bathtub	8	432	3456
Drinking Fountain - Public	2	20	40
Kitchen SINK - 1/2 Connection	3	272	816
Lavatory - 3/8" connection	2	438	876
Water Closet - Tank Type	3	437	1311
Urinal - Wall Flush Valve	10	1	10
Dishwasher	5	270	1350
Washing Machine	5	270	1350
Hose Connection - 1/2" connection	6	40	240

Combined Fixture Value Total = 9,449

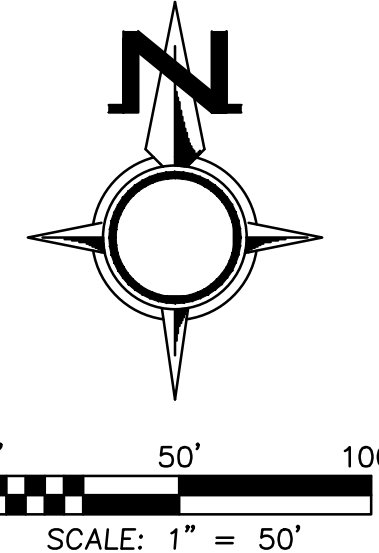
Customer Peak demand from Curves = 120 gpm  
 Enter Line Pressure and Pressure Factor = 146  
 Customer Peak demand from Curves X Pressure Factor = 175.20 gpm

Total Flow = 175.20

\*\*\* - Use 3" Meter

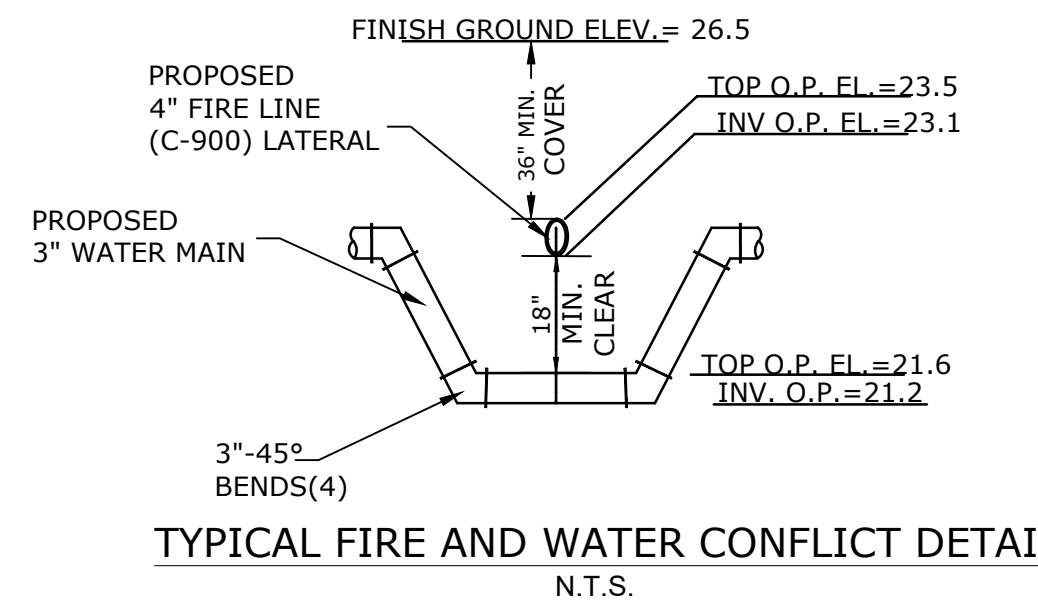
Irrigation Flows Largest Zone = 20 gpm

NOTE: NON-INDICATING VALVES ON THE FIRE LINES SHALL BE INSTALLED IN APPROVED ROADWAY BOXES, WITH COVERS PAINTED RED AND "FIRE" INDICATED ON THE COVER. IN ADDITION, A T-WRENCH SHALL BE LEFT IN THE MECHANICAL ROOM OF EACH BUILDING WHERE THE LINES CONTAINING THESE VALVES ARE PROVIDING SERVICE.



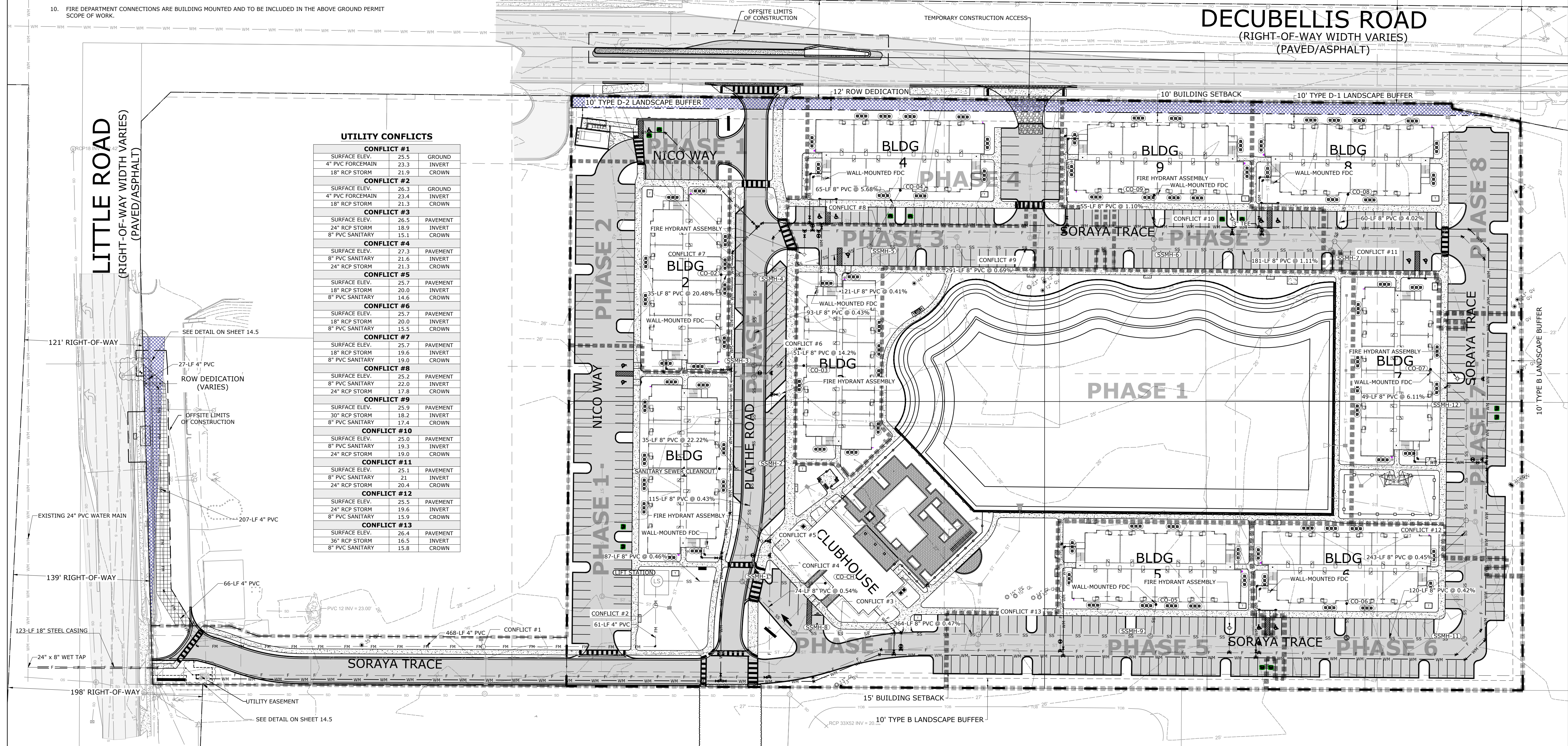
LEGEND

---	PROPERTY BOUNDARY	SS	SANITARY SEWER LINE
---	LANDSCAPE BUFFER	SS	EXISTING SANITARY SEWER LINE
---	BUILDING SETBACK	FM	EXISTING FORCE MAIN LINE
---	PHASE LINE	FM	EXISTING FORCE MAIN LINE
---	FENCE (SEE PLANS BY OTHERS)	WM	WATER MAIN LINE
---	ASPHALT PAVEMENT (SEE SHEET 8 FOR VARIATIONS AND CORRESPONDING SECTIONS ON SHEET 11)	WM	EXISTING WATER MAIN LINE
---	CONCRETE FOOT INDEX NO. 522-001	F	FIRE LINE
---	ASPHALT RESTORATION (SEE SECTION ON SHEET 11)	ST	STORM CONVEYANCE SYSTEM
---	EXISTING ASPHALT	S	SANITARY MANHOLE
---	EXISTING CONCRETE	D	PROPOSED STORMWATER STRUCTURES
---			NON-INDICATING VALVE (SEE ADJACENT NOTE)



UTILITY CONFLICTS

CONFLICT #	SURFACE ELEV.	PIPE	GROUND
CONFLICT #1	25.5	4" PVC FORCE MAIN	INVERT
CONFLICT #2	23.3	18" RCP STORM	CROWN
CONFLICT #3	21.9	18" RCP STORM	CROWN
CONFLICT #4	26.3	4" PVC FORCE MAIN	INVERT
CONFLICT #5	23.4	4" PVC FORCE MAIN	INVERT
CONFLICT #6	21.3	18" RCP STORM	CROWN
CONFLICT #7	26.5	8" PVC SANITARY	INVERT
CONFLICT #8	18.9	8" PVC SANITARY	INVERT
CONFLICT #9	21.6	8" PVC SANITARY	INVERT
CONFLICT #10	21.3	24" RCP STORM	CROWN
CONFLICT #11	27.3	8" PVC SANITARY	INVERT
CONFLICT #12	21.6	8" PVC SANITARY	INVERT
CONFLICT #13	21.3	24" RCP STORM	CROWN
CONFLICT #14	25.7	8" PVC SANITARY	INVERT
CONFLICT #15	19.6	8" PVC SANITARY	INVERT
CONFLICT #16	19.0	8" PVC SANITARY	INVERT
CONFLICT #17	25.2	8" PVC SANITARY	INVERT
CONFLICT #18	22.0	8" PVC SANITARY	INVERT
CONFLICT #19	17.8	24" RCP STORM	CROWN
CONFLICT #20	25.9	30" RCP STORM	INVERT
CONFLICT #21	18.2	8" PVC SANITARY	INVERT
CONFLICT #22	17.4	8" PVC SANITARY	INVERT
CONFLICT #23	25.0	8" PVC SANITARY	INVERT
CONFLICT #24	19.3	24" RCP STORM	CROWN
CONFLICT #25	19.0	24" RCP STORM	CROWN
CONFLICT #26	25.1	8" PVC SANITARY	INVERT
CONFLICT #27	21.0	8" PVC SANITARY	INVERT
CONFLICT #28	20.4	24" RCP STORM	CROWN
CONFLICT #29	25.5	8" PVC SANITARY	INVERT
CONFLICT #30	19.6	24" RCP STORM	CROWN
CONFLICT #31	15.9	8" PVC SANITARY	INVERT
CONFLICT #32	26.4	36" RCP STORM	INVERT
CONFLICT #33	16.5	8" PVC SANITARY	INVERT
CONFLICT #34	15.8	8" PVC SANITARY	INVERT



OVERALL UTILITIES PLAN  
 AVENTON LITTLE MULTIFAMILY  
 PASCO COUNTY, FLORIDA

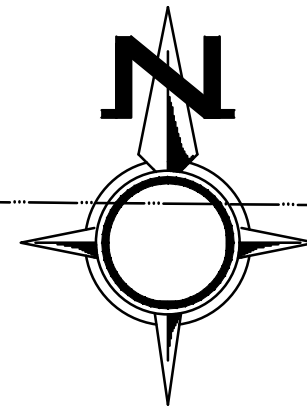
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 727-379-1155 EXT. 202 - FAX 727-375-1156  
 CERTIFICATE OF AUTHORIZATION NO. 283566

DATE	REV. BY	REV. NO.	REVISION

SHEET  
 14

PLOT DATE/TIME: Monday, February 05, 2024 @ 1:08 PM  
 C:\Users\Projects\172-Aventon Little\172-Aventon Little\172-Aventon Little\172-Aventon Little\172-Aventon Little.dwg



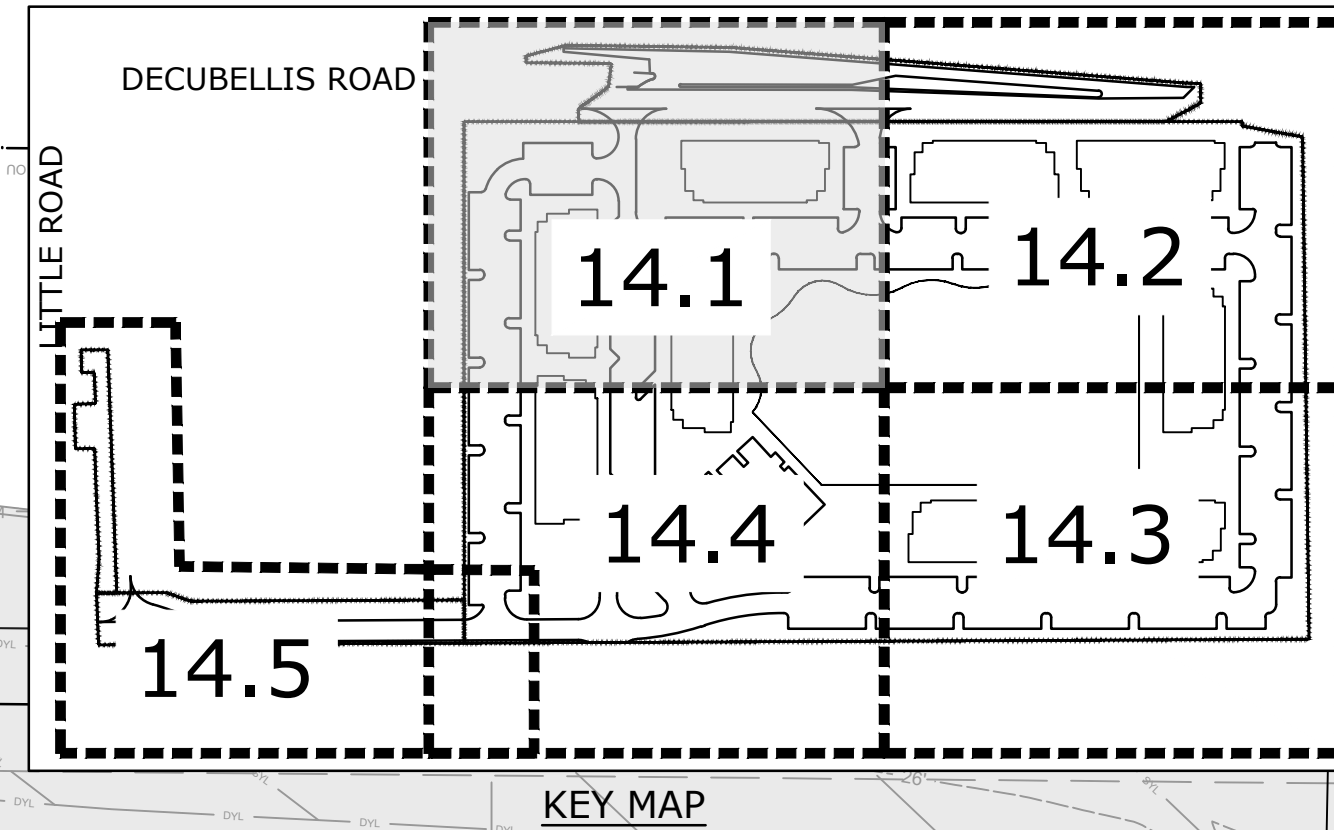
0' 20' 40'  
SCALE: 1" = 20'

LEGEND

- PROPERTY BOUNDARY
- LANDSCAPE BUFFER
- BUILDING SETBACK
- PHASE LINE
- FENCE (SEE PLANS BY OTHERS)
- ASPHALT PAVEMENT (SEE SHEET 8 FOR VARIATIONS AND CORRESPONDING SECTIONS ON SHEET 11)
- CONCRETE (FOOT INDEX NO. 522-001)
- EXISTING ASPHALT
- EXISTING CONCRETE
- SS --- SANITARY SEWER LINE
- SS --- EXISTING SANITARY SEWER LINE
- FM --- FORCE MAIN LINE
- WM --- EXISTING FORCE MAIN LINE
- WM --- WATER MAIN LINE
- WM --- EXISTING WATER MAIN LINE
- F --- FIRE LINE
- ST --- STORM CONVEYANCE SYSTEM
- (S) --- SANITARY MANHOLE
- (D) --- PROPOSED STORMWATER STRUCTURES
- (N) --- NON-INDICATING VALVE (SEE NOTE ON SHEET 14)

100' RIGHT-OF-WAY

OFFSITE LIMITS OF CONSTRUCTION



KEY MAP

UTILITIES PLAN

AVENTON LITTLE MULTIFAMILY  
PASCO COUNTY, FLORIDA

DRAWING SHALL UNLESS SPECIFICATED & SEALED BY REGISTERED PROFESSIONAL

JAMES P. GIBSON, P.E. # 93132

**REGENCY**  
 Design & Engineering, Inc.  
 9400 RIVER CROSSING BOULEVARD, SUITE 102 NEW PORT RICHEY, FLORIDA 34665  
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REVISION

DATE REV. BY REV. NO.

SHEET  
**14.1**

DUMPSTER ENCLOSURE  
(BY OTHERS, PER  
LDC SECTION 906.1 - SEE  
DETAIL ON SHEET 15B)

SANITARY STRUCTURE TABLE

CO-02  
SANITARY SEWER CLEANOUT  
RIM = 27.2  
INV OUT = 22.5 (E)

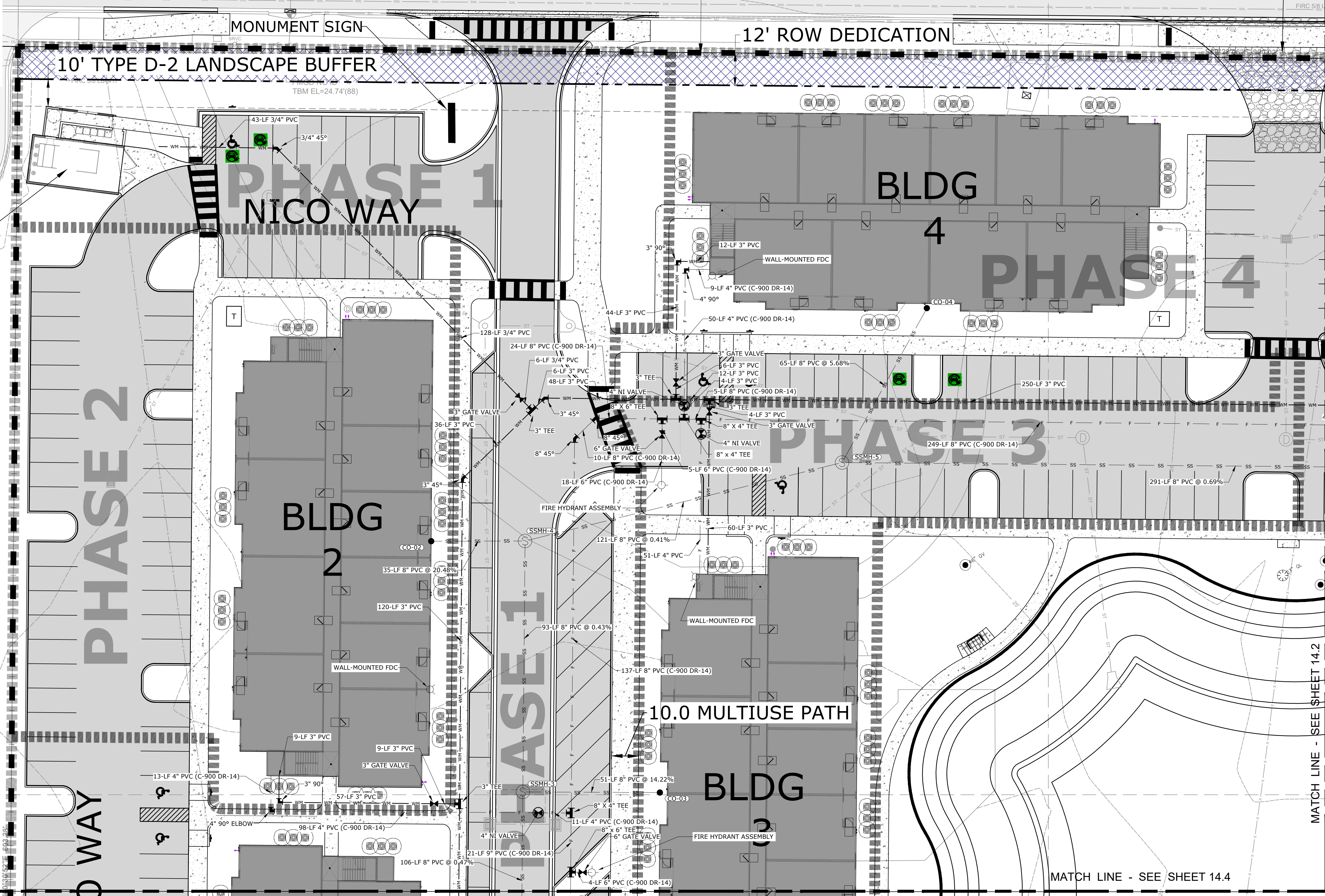
CO-03  
SANITARY SEWER CLEANOUT  
RIM = 27.2  
INV OUT = 23.7 (W)

CO-04  
SANITARY SEWER CLEANOUT  
RIM = 27.2  
INV OUT = 19.7 (SW)

SSMH-3  
SANITARY MANHOLE (J BOTTOM)  
FDOT INDEX #425-001  
RIM = 25.7  
INV IN = 14.9 (N)  
INV IN = 16.5 (E)  
INV OUT = 14.8 (S)

SSMH-4  
SANITARY MANHOLE (J BOTTOM)  
FDOT INDEX #425-001  
RIM = 26.0  
INV IN = 15.4 (E)  
INV IN = 15.4 (W)  
INV OUT = 15.3 (S)

SSMH-5  
SANITARY MANHOLE (J BOTTOM)  
FDOT INDEX #425-001  
RIM = 25.5  
INV IN = 15.0 (NE)  
INV IN = 16.0 (E)  
INV OUT = 15.9 (W)



10' TYPE D-2 LANDSCAPE BUFFER  
TBM EL=24.74'(88)

12' ROW DEDICATION

PHASE 1  
NICO WAY

BLDG 4  
PHASE 4

PHASE 2  
BLDG 2

PHASE 3  
BLDG 3

PHASE 1  
10.0 MULTIUSE PATH

BLDG 3

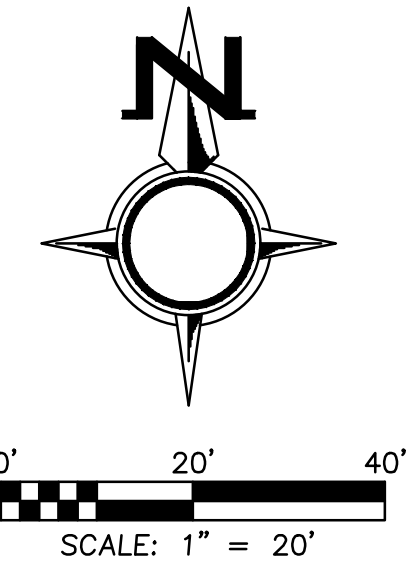
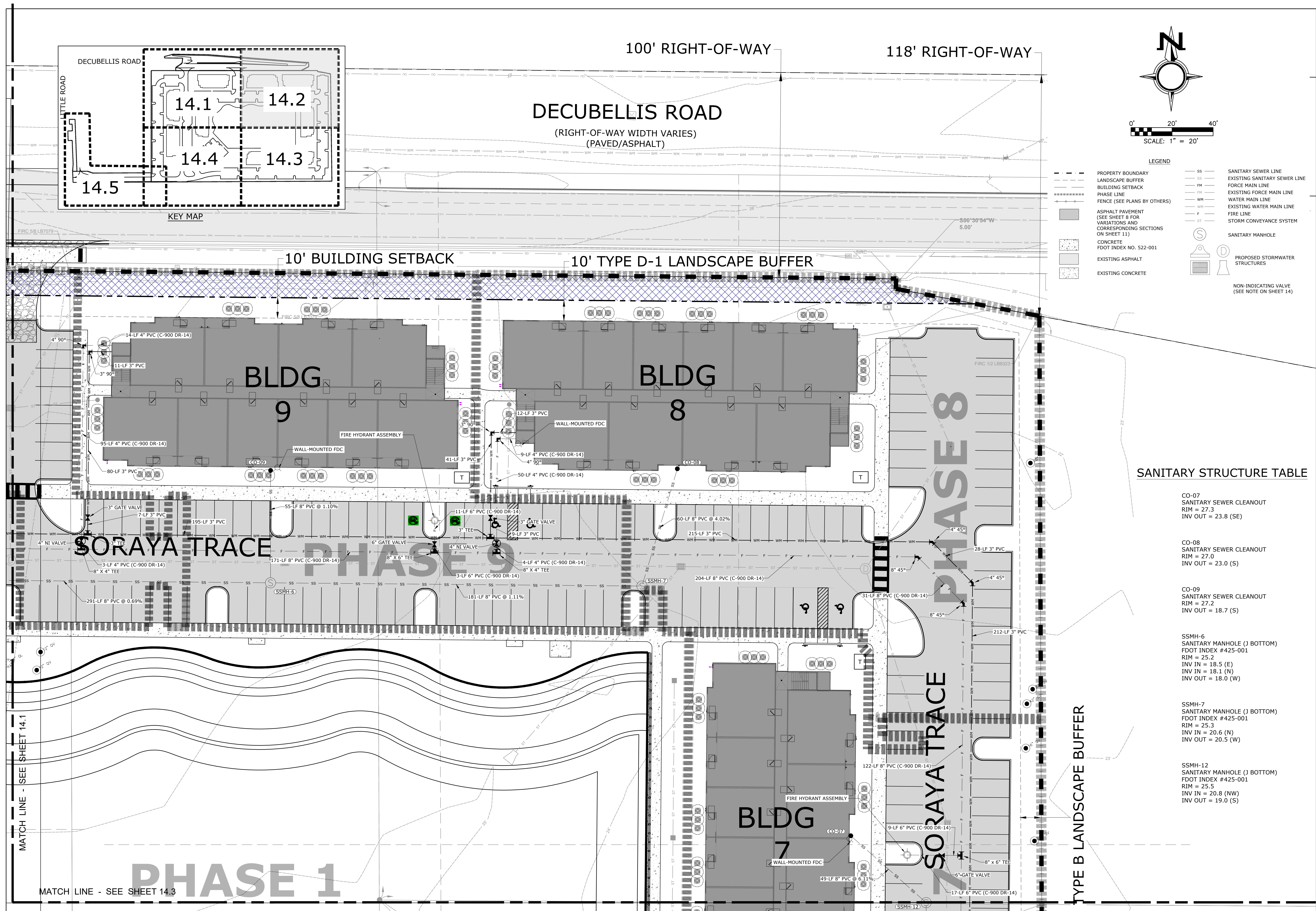
MATCH LINE - SEE SHEET 14.2

MATCH LINE - SEE SHEET 14.4

PLOT DATE/TIME: Friday, February 05, 2026 @ 1:08 AM  
 C:\Users\Project\OneDrive\Documents\14.1\Utilities.dwg

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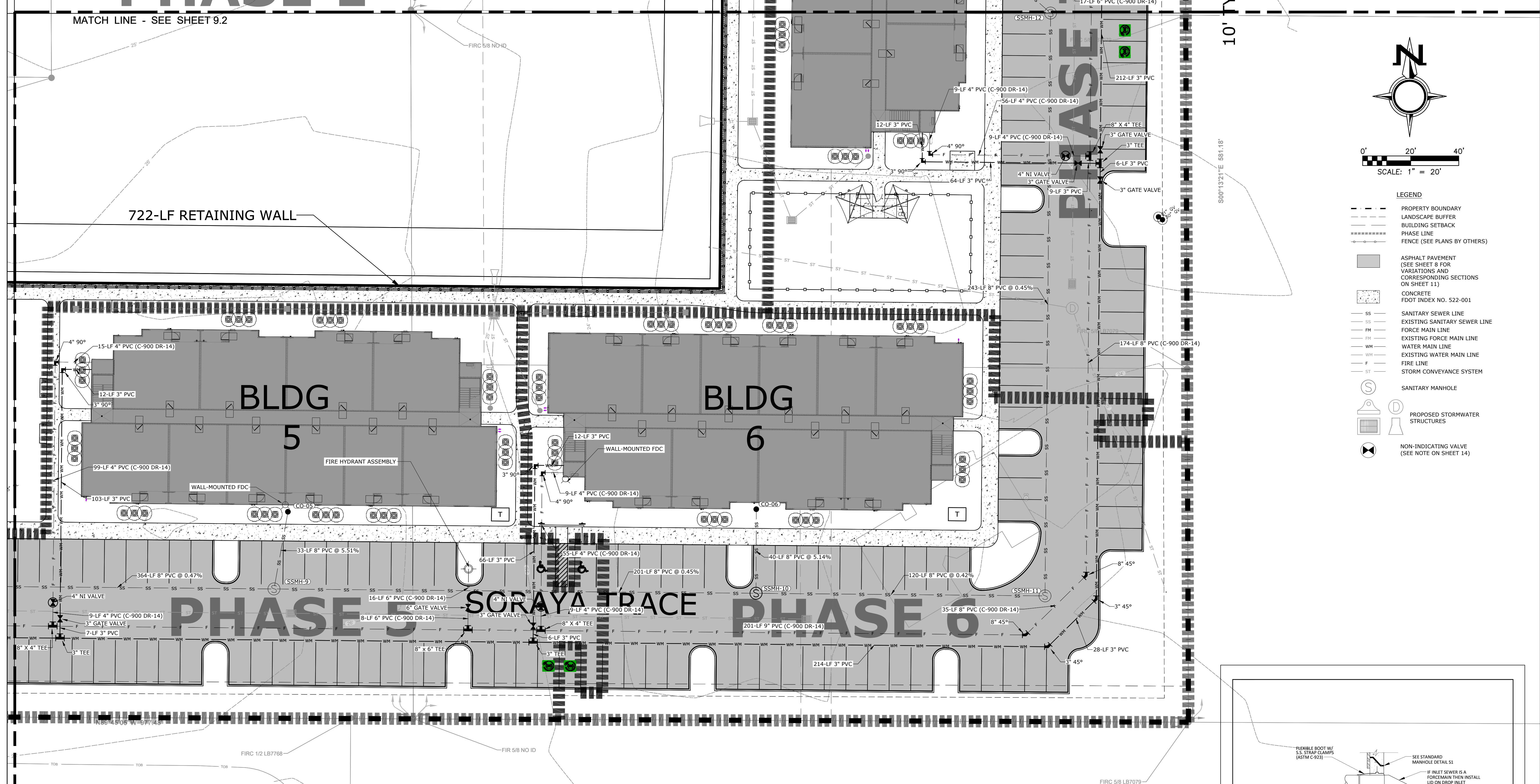
**LEGEND**

---	PROPERTY BOUNDARY	SS	SANITARY SEWER LINE
---	LANDSCAPE BUFFER	SS	EXISTING SANITARY SEWER LINE
---	BUILDING SETBACK	FM	FORCE MAIN LINE
---	PHASE LINE	FM	EXISTING FORCE MAIN LINE
---	FENCE (SEE PLANS BY OTHERS)	WM	WATER MAIN LINE
---	ASPHALT PAVEMENT (SEE SHEET 8 FOR VARIATIONS AND CORRESPONDING SECTIONS ON SHEET 11)	WM	EXISTING WATER MAIN LINE
---	CONCRETE (FDOT INDEX NO. 522-001)	F	FIRE LINE
---	EXISTING ASPHALT	ST	STORM CONVEYANCE SYSTEM
---	EXISTING CONCRETE	S	SANITARY MANHOLE
---		D	PROPOSED STORMWATER STRUCTURES
---			NON-INDICATING VALVE (SEE NOTE ON SHEET 14)

**SANITARY STRUCTURE TABLE**

CO-07	SANITARY SEWER CLEANOUT
RIM = 27.3	
INV OUT = 23.8 (SE)	
CO-08	SANITARY SEWER CLEANOUT
RIM = 27.0	
INV OUT = 23.0 (S)	
CO-09	SANITARY SEWER CLEANOUT
RIM = 27.2	
INV OUT = 18.7 (S)	
SSMH-6	SANITARY MANHOLE (J BOTTOM)
FDOT INDEX #425-001	
RIM = 25.2	
INV IN = 18.5 (E)	
INV IN = 18.1 (N)	
INV OUT = 18.0 (W)	
SSMH-7	SANITARY MANHOLE (J BOTTOM)
FDOT INDEX #425-001	
RIM = 25.3	
INV IN = 20.6 (N)	
INV OUT = 20.5 (W)	
SSMH-12	SANITARY MANHOLE (J BOTTOM)
FDOT INDEX #425-001	
RIM = 25.5	
INV IN = 20.8 (NW)	
INV OUT = 19.0 (S)	

PLOT DATE/TIME: Monday, February 05, 2024 @ 1:08 AM  
 C:\Users\jgarcia\OneDrive\Documents\Projects\Aventon Little Road Design and Permitting\Drawings\CAD\14\_UTIL.dwg

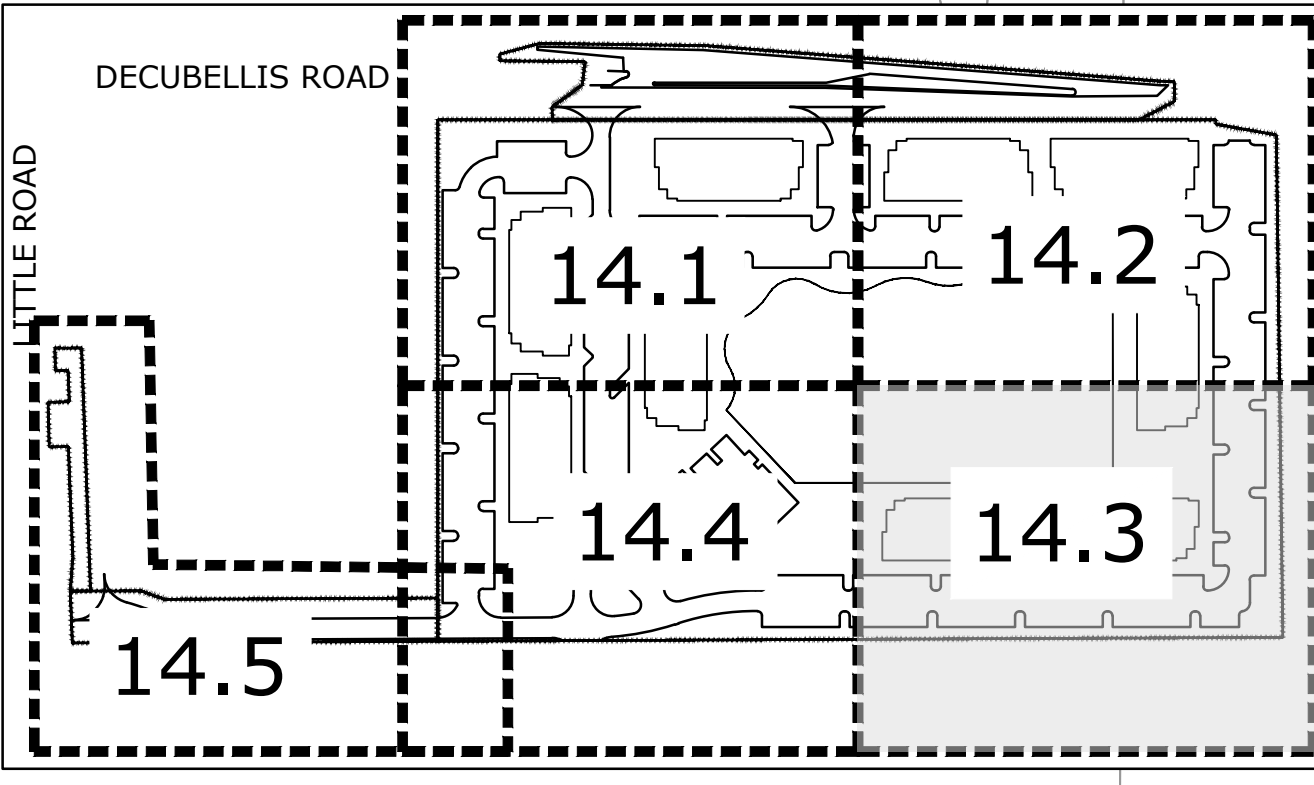


722-LF RETAINING WALL

BLDG 5

BLDG 6

PHASE 5 SORAYA TRACE PHASE 6

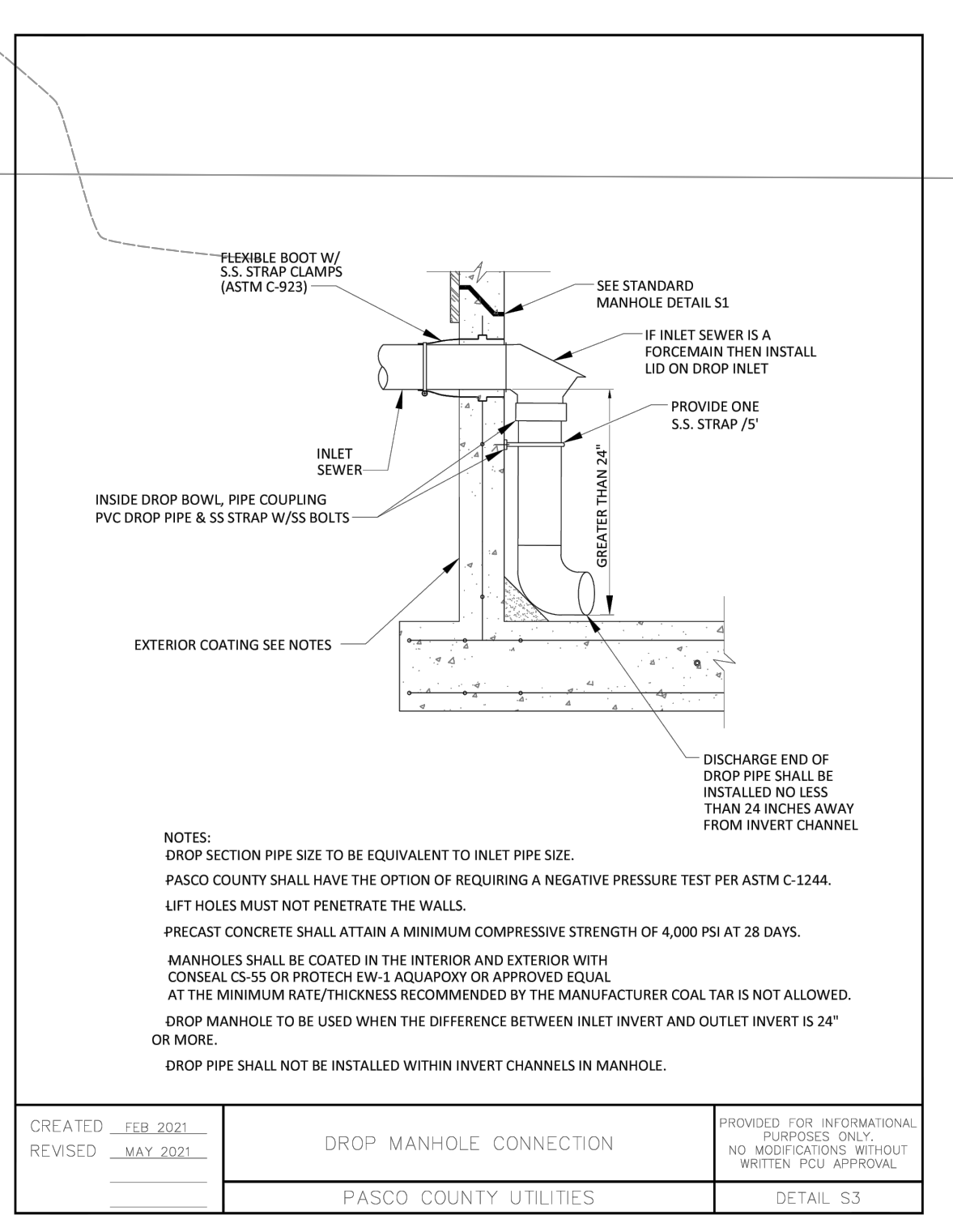


KEY MAP

SANITARY STRUCTURE TABLE

CO-05 SANITARY SEWER CLEANOUT RIM = 27.3 INV OUT = 23.8 (S)	SSMH-10 SANITARY MANHOLE (J BOTTOM) FDOT INDEX #425-001 RIM = 25.2 INV IN = 17.3 (E) INV IN = 22.0 (N) INV OUT = 17.2 (W)
CO-06 SANITARY SEWER CLEANOUT RIM = 27.3 INV OUT = 23.8 (S)	SSMH-11 SANITARY MANHOLE (J BOTTOM) FDOT INDEX #425-001 RIM = 25.6 INV IN = 17.9 (N) INV OUT = 17.8 (W)
SSMH-9* SANITARY MANHOLE (J BOTTOM) FDOT INDEX #425-001 RIM = 25.3 INV IN = 16.3 (E) INV IN = 22.0 (N) INV OUT = 15.9 (W)	SSMH-12* SANITARY MANHOLE (J BOTTOM) FDOT INDEX #425-001 RIM = 25.5 INV IN = 20.8 (NW) INV OUT = 19.0 (S)

NOTE: ALL SANITARY MANHOLES WITH AN IN/OUT INVERT DIFFERENTIAL GREATER THAN 1.9-FT SHALL HAVE A DROP PIPE INSTALLED PER DETAIL S3



CREATED FEB 2021	DROP MANHOLE CONNECTION	PROVIDED FOR INFORMATIONAL PURPOSES. ONLY FOR WRITTEN PCD APPROVAL.
REVISED MAY 2021	PASCO COUNTY UTILITIES	DETAIL: S3

UTILITIES PLAN  
 AVENTON LITTLE MULTIFAMILY  
 PASCO COUNTY, FLORIDA

DRAWING SHALL UNLESS SHOWN, DATED & SIGNED BY REGISTERED PROFESSIONAL ENGINEER  
 JAMES P. ORLAND, P.E. # 93132

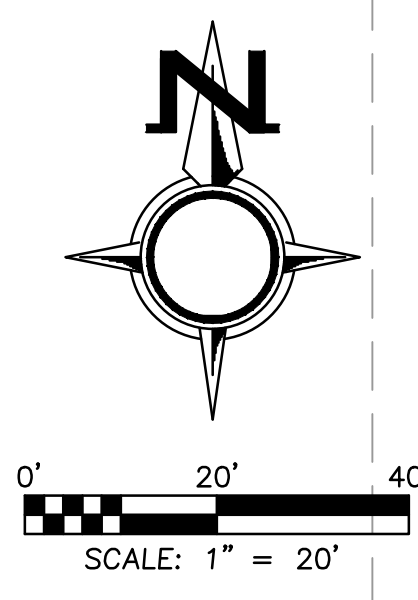
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 Design & Engineering, Inc.  
 9400 RIVER CROSSING BOULEVARD, SUITE 102 NEW PORT RICHEY, FLORIDA 34665  
 727-375-1155 EXT. 202 - FAX 727-375-1156  
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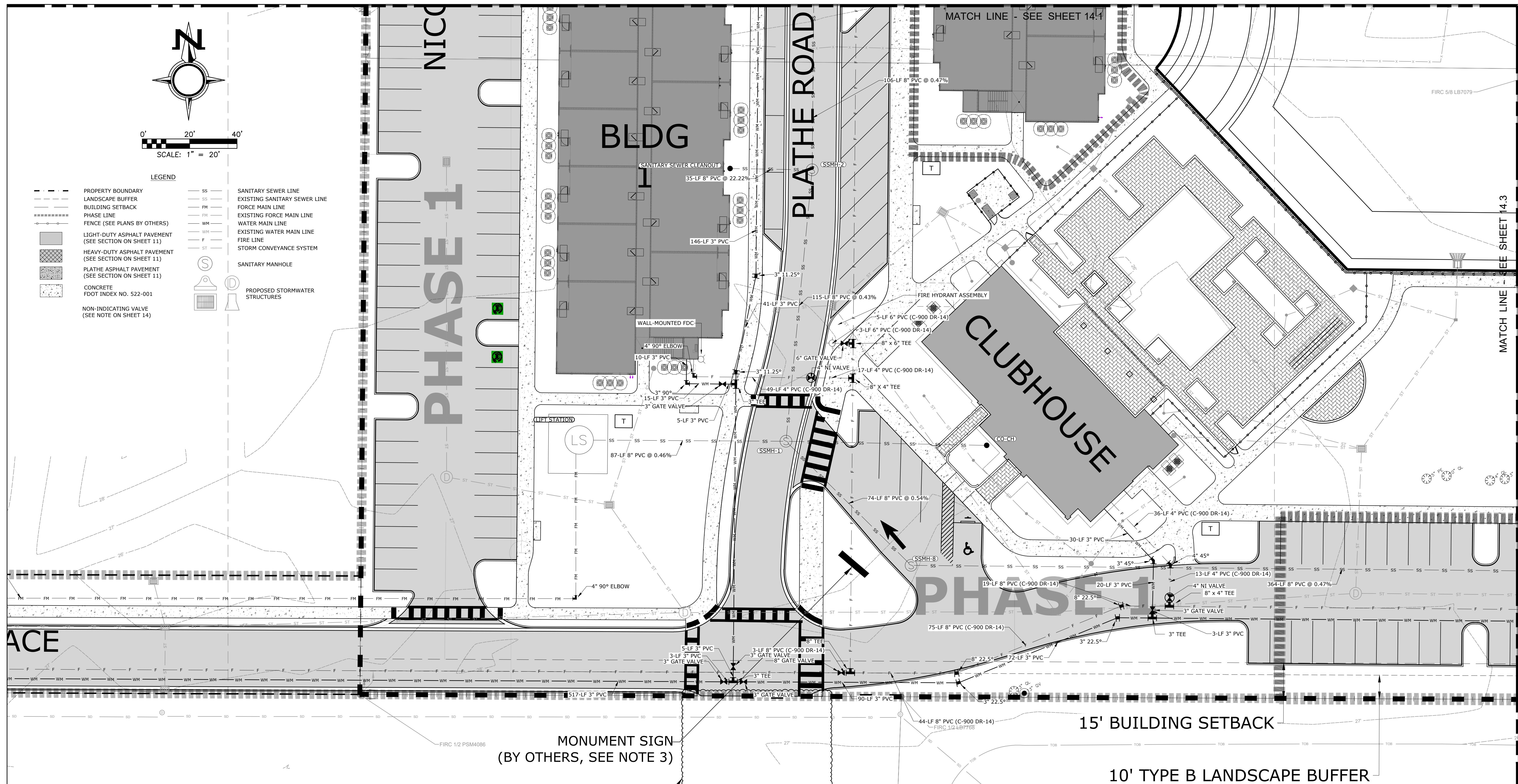
SHEET  
 14.3

PROJECT: AVENTON LITTLE MULTIFAMILY, February 09, 2020 @ 1:08 PM  
 C:\Users\jorland\OneDrive\Documents\Projects\Aventon Little Road Design and Permitting\Drawings\CDN\_14.LITL.dwg



**LEGEND**

- PROPERTY BOUNDARY
- - - LANDSCAPE BUFFER
- - - BUILDING SETBACK
- - - PHASE LINE
- - - FENCE (SEE PLANS BY OTHERS)
- LIGHT-DUTY ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
- HEAVY-DUTY ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
- PLATHE ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
- CONCRETE (DOT INDEX NO. 522-001)
- NON-INDICATING VALVE (SEE NOTE ON SHEET 14)
- SS SANITARY SEWER LINE
- SS EXISTING SANITARY SEWER LINE
- FM FORCE MAIN LINE
- FM EXISTING FORCE MAIN LINE
- WM WATER MAIN LINE
- WM EXISTING WATER MAIN LINE
- F FIRE LINE
- ST STORM CONVEYANCE SYSTEM
- SANITARY MANHOLE
- PROPOSED STORMWATER STRUCTURES



**SANITARY STRUCTURE TABLE**

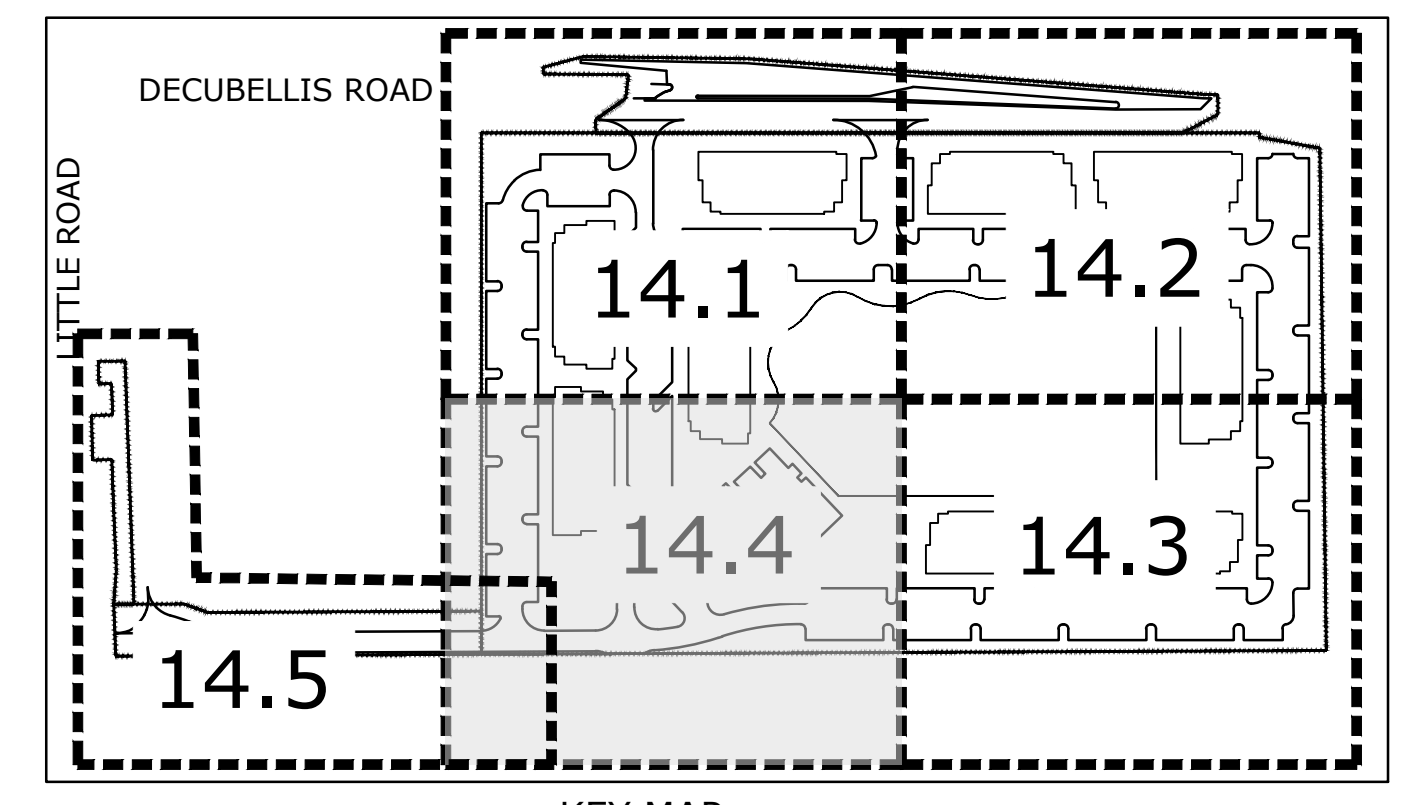
CO-CH SANITARY SEWER CLEANOUT RIM = 27.4 INV OUT = 24.1 (W)	SSMH-2 SANITARY MANHOLE (J BOTTOM) DOT INDEX #425-001 RIM = 26.0 INV IN = 14.3 (N) INV IN = 16.0 (W) INV OUT = 14.2 (S)
SANITARY SEWER CLEANOUT SANITARY SEWER CLEANOUT RIM = 27.2 INV OUT = 23.7 (E)	SSMH-8 SANITARY MANHOLE (J BOTTOM) DOT INDEX #425-001 RIM = 27.0 INV IN = 14.2 (E) INV OUT = 14.1 (NW)
SSMH-1 SANITARY MANHOLE (J BOTTOM) DOT INDEX #425-001 RIM = 26.4 INV IN = 13.7 (N) INV IN = 13.7 (SE) INV IN = 15.4 (E) INV OUT = 13.6 (W)	

MONUMENT SIGN  
(BY OTHERS, SEE NOTE 3)

OFF-SITE CONSTRUCTION  
FOR THE PLATHE ROAD  
EXTENSION SHALL BE  
COMPLETED BY OTHERS

15' BUILDING SETBACK

10' TYPE B LANDSCAPE BUFFER



UTILITIES PLAN

AVENTON LITTLE MULTIFAMILY  
PASCO COUNTY, FLORIDA

REGENCY  
Design & Engineering, Inc.

9400 RIVER CROSSING BOULEVARD, SUITE 102 NEW PORT RICHEY, FLORIDA 34665  
727-375-1155 EXT. 202 - FAX 727-375-1156  
CERTIFICATE OF AUTHORIZATION NO. 283566

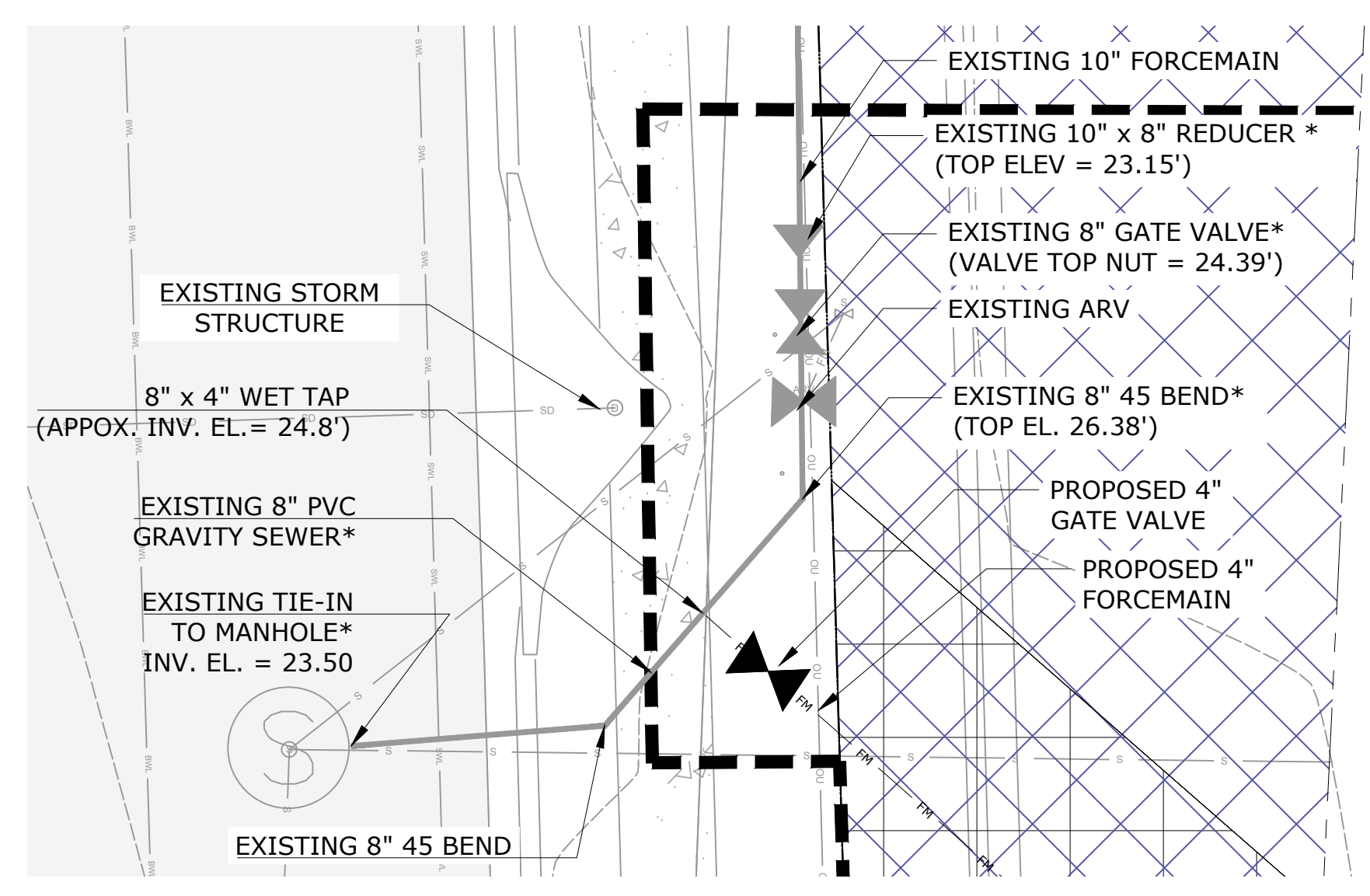
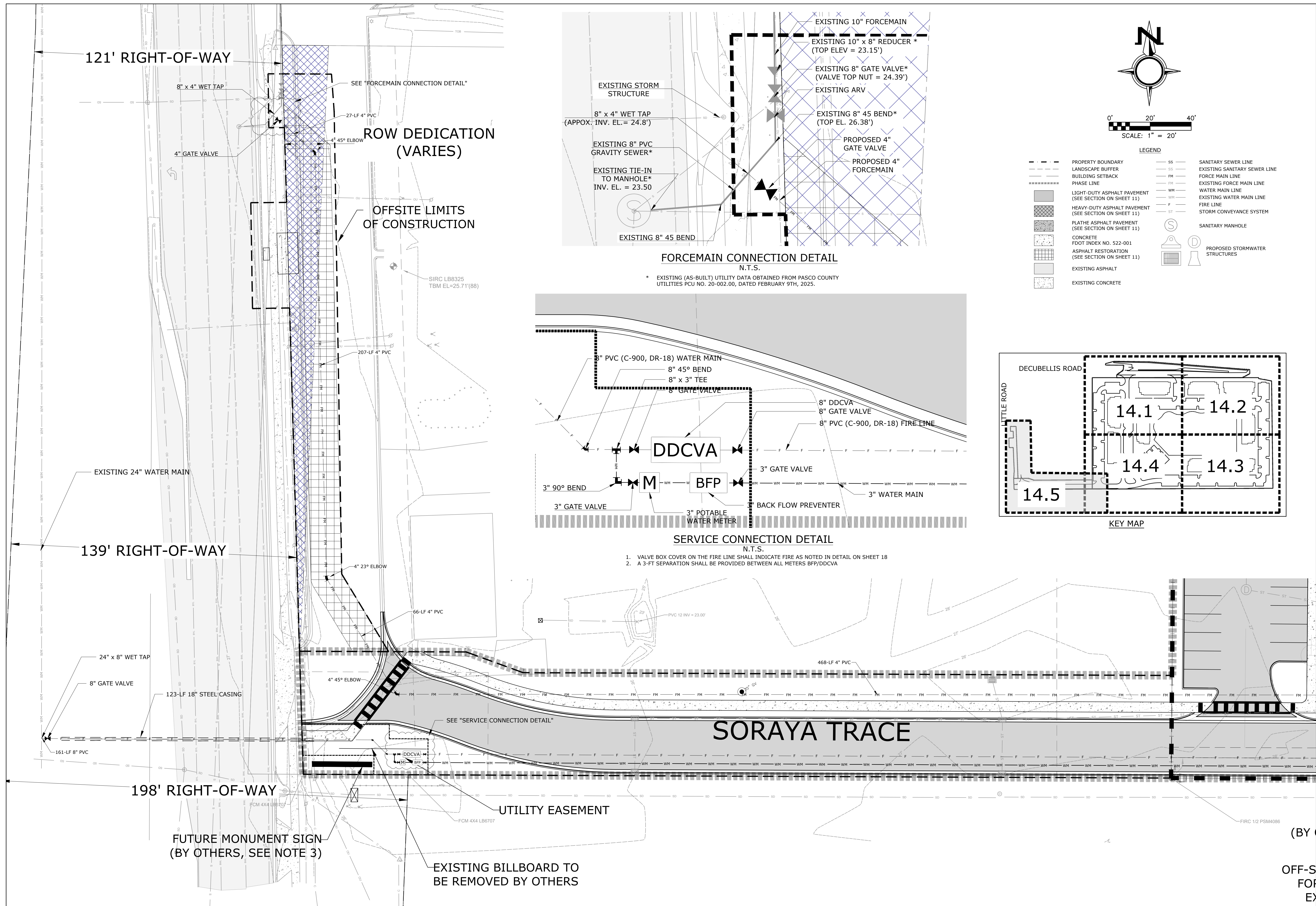
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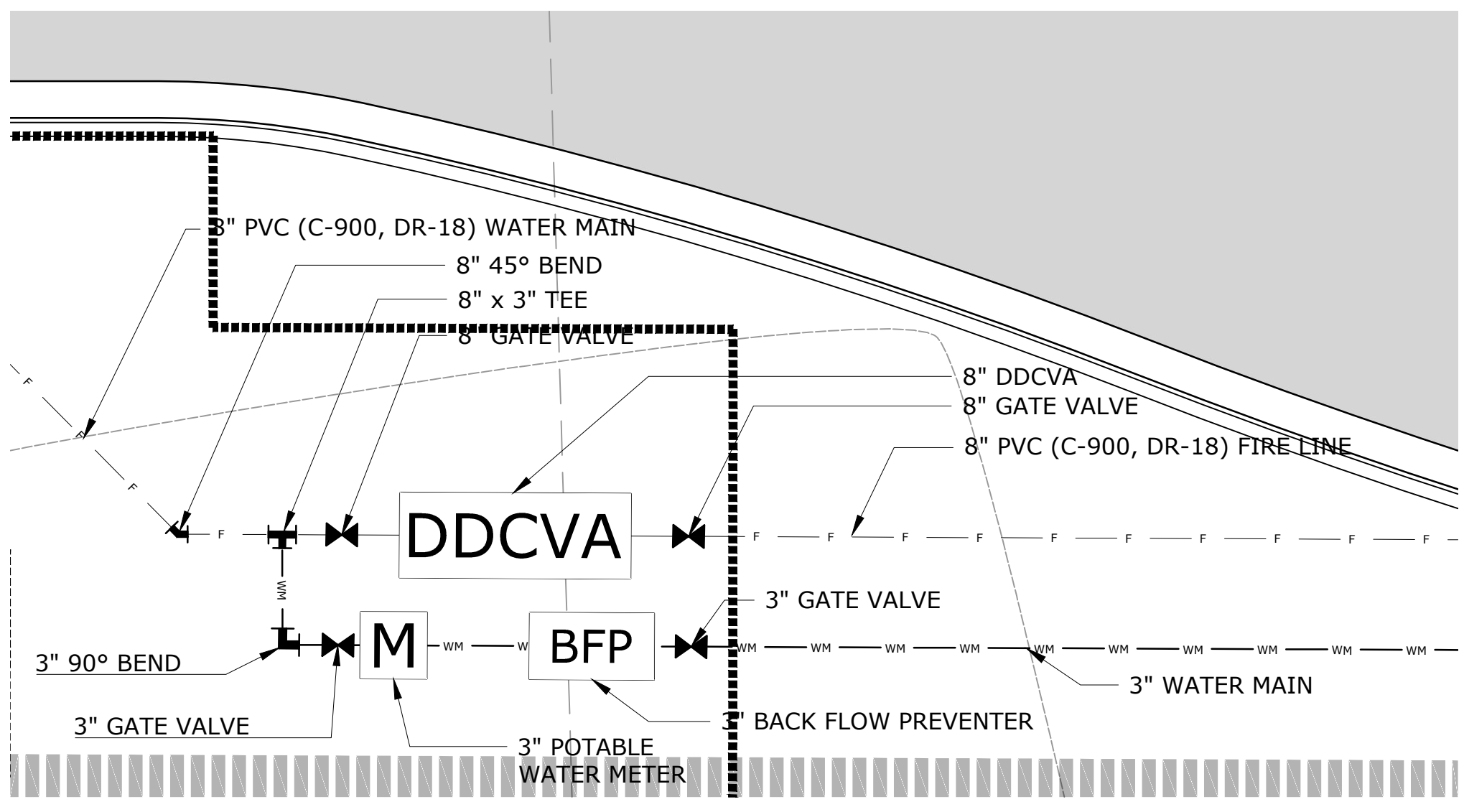
SHEET  
**14.4**

PLOT DATE/TIME: Monday, February 05, 2024 @ 1:08 PM  
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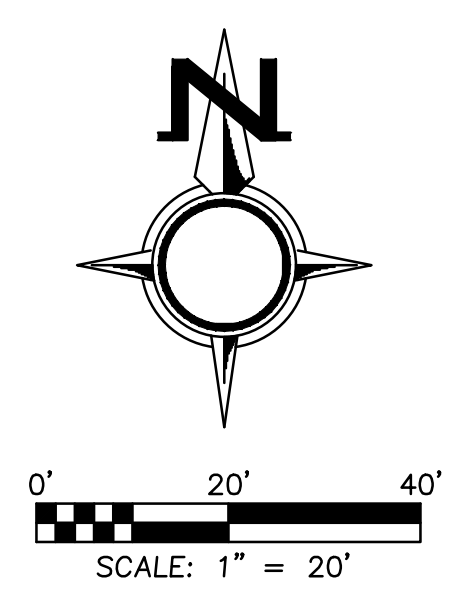
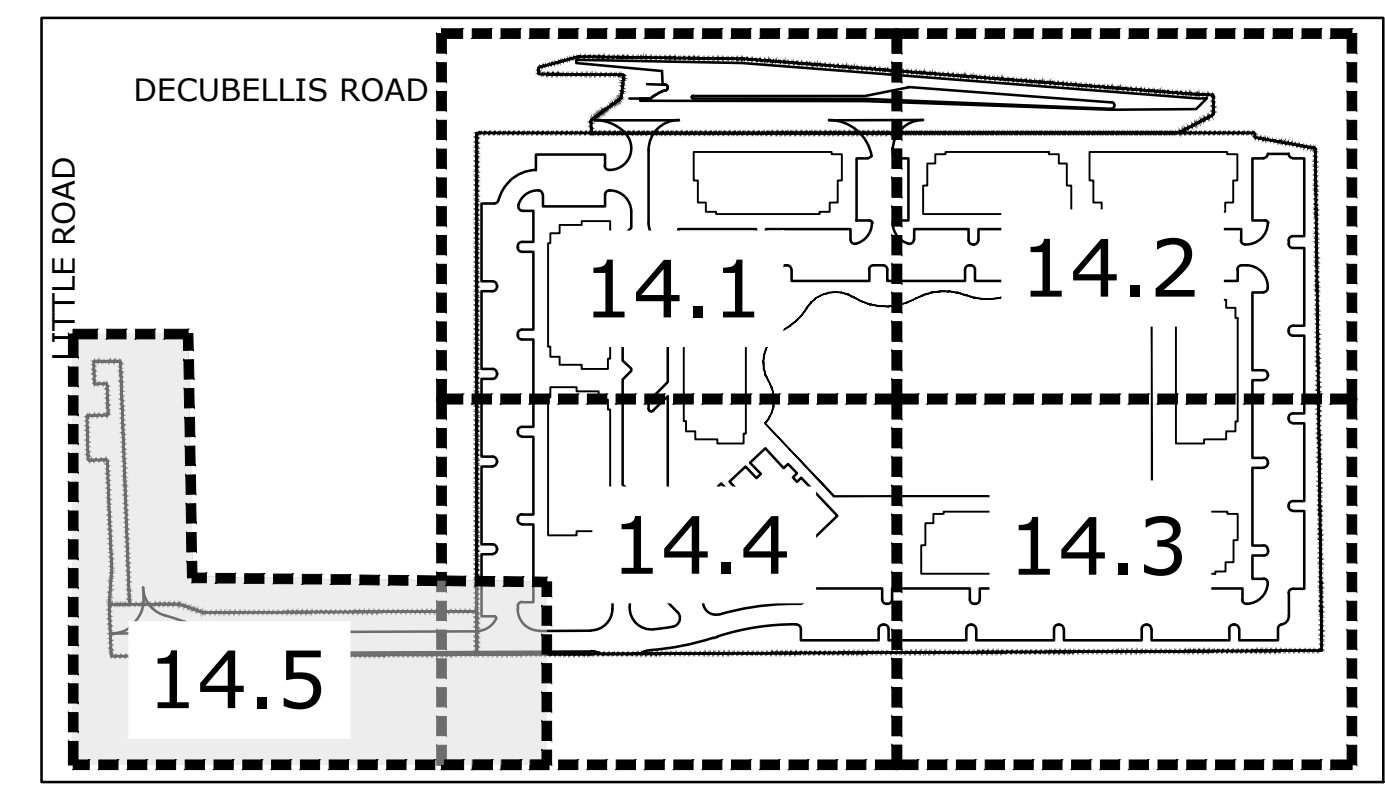
PLOT DATE/TIME: Monday, February 05, 2025 @ 1:09 PM  
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**FORCEMAIN CONNECTION DETAIL**  
N.T.S.  
\* EXISTING (AS-BUILT) UTILITY DATA OBTAINED FROM PASCO COUNTY UTILITIES PCU NO. 20-002.00, DATED FEBRUARY 9TH, 2025.



**SERVICE CONNECTION DETAIL**  
N.T.S.  
1. VALVE BOX COVER ON THE FIRE LINE SHALL INDICATE FIRE AS NOTED IN DETAIL ON SHEET 18  
2. A 3-FT SEPARATION SHALL BE PROVIDED BETWEEN ALL METERS BFP/DDCVA



**LEGEND**

---	PROPERTY BOUNDARY	---	SS	SANITARY SEWER LINE
---	LANDSCAPE BUFFER	---	SS	EXISTING SANITARY SEWER LINE
---	BUILDING SETBACK	---	FM	FORCE MAIN LINE
---	PHASE LINE	---	FM	EXISTING FORCE MAIN LINE
---	LIGHT-DUTY ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)	---	WM	WATER MAIN LINE
---	HEAVY-DUTY ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)	---	WM	EXISTING WATER MAIN LINE
---	PLATHE ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)	---	F	FIRE LINE
---	CONCRETE	---	ST	STORM CONVEYANCE SYSTEM
---	ASPHALT RESTORATION (SEE SECTION ON SHEET 11)	---	(S)	SANITARY MANHOLE
---	EXISTING ASPHALT	---	(D)	PROPOSED STORMWATER STRUCTURES
---	EXISTING CONCRETE			

DRAWING SHALL UNLESS SPECIFICALLY NOTED & SEALED BY REGISTERED PROFESSIONAL ENGINEER  
 JAMES P. GIBSON, P.E. # 99332

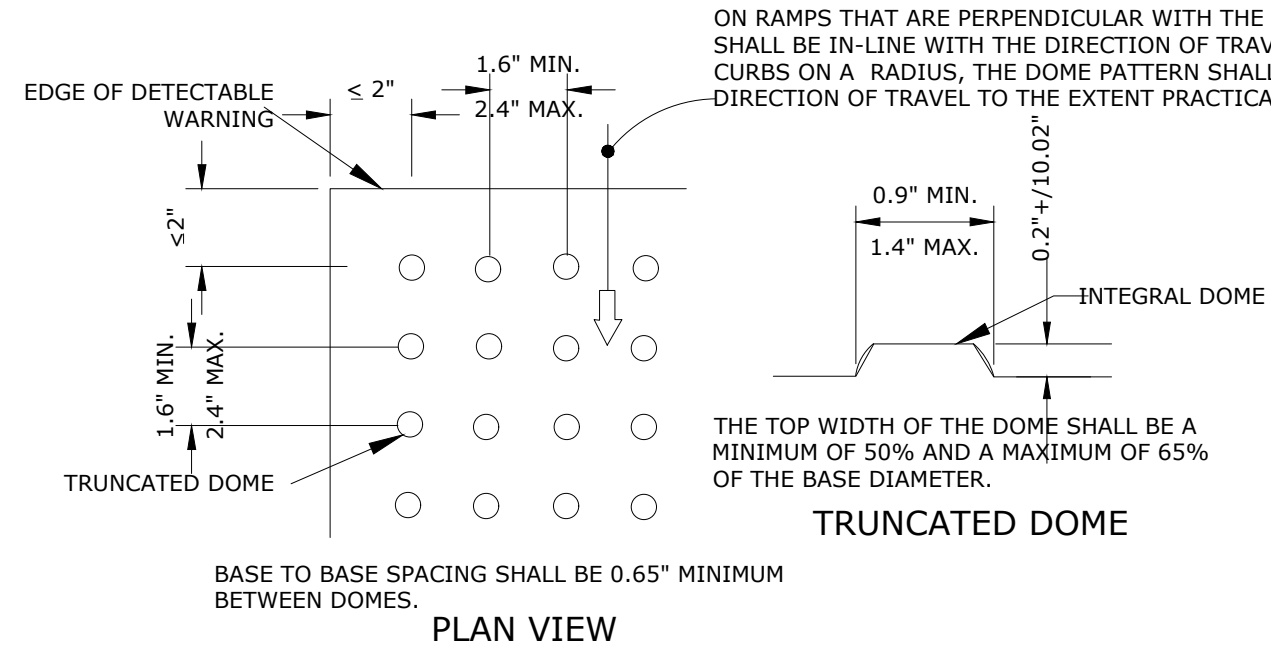
UTILITIES PLAN  
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 PASCO COUNTY, FLORIDA

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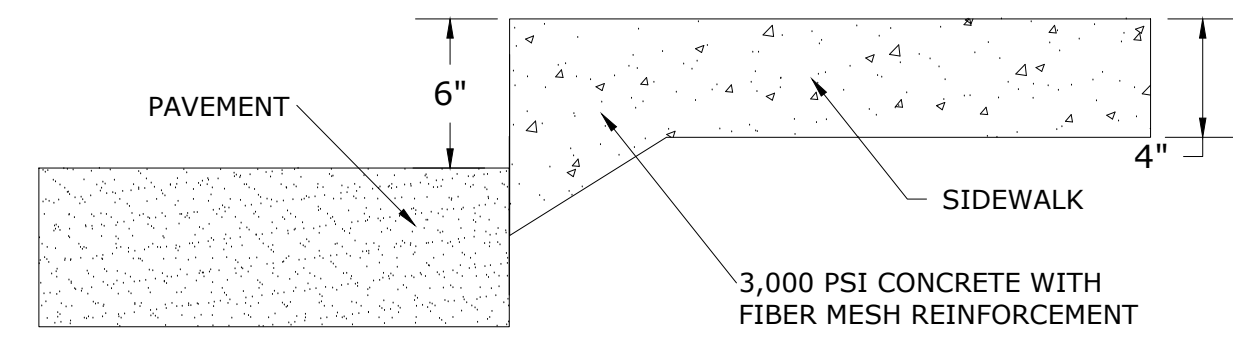
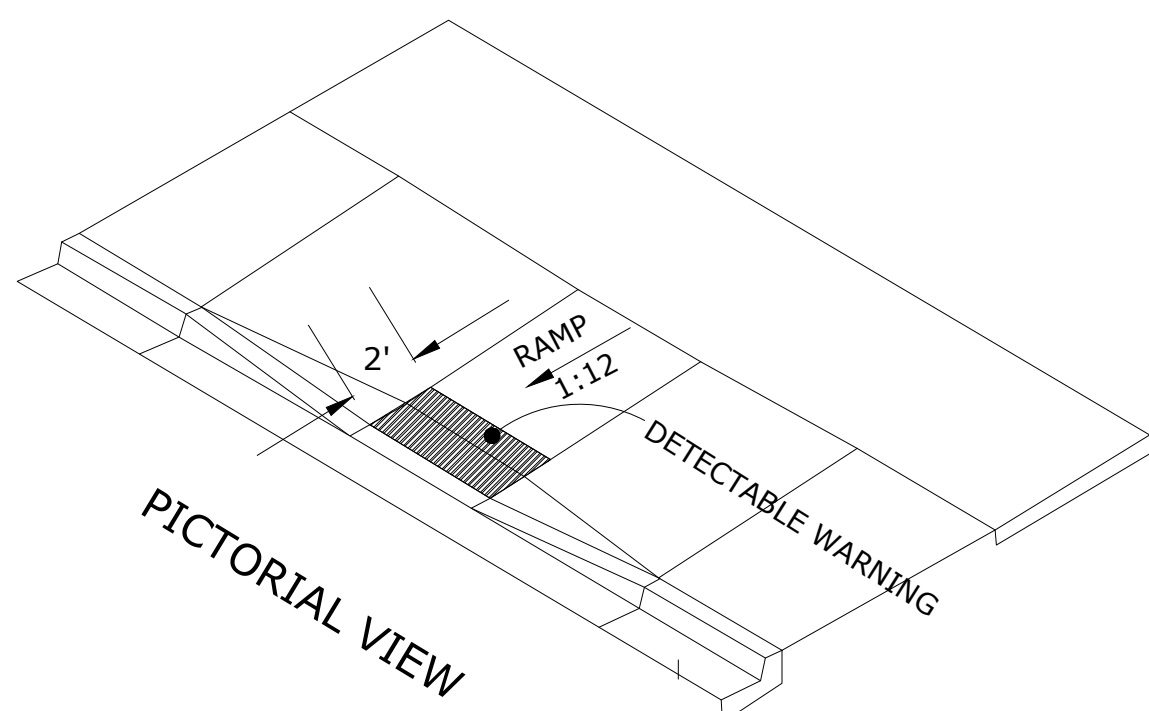
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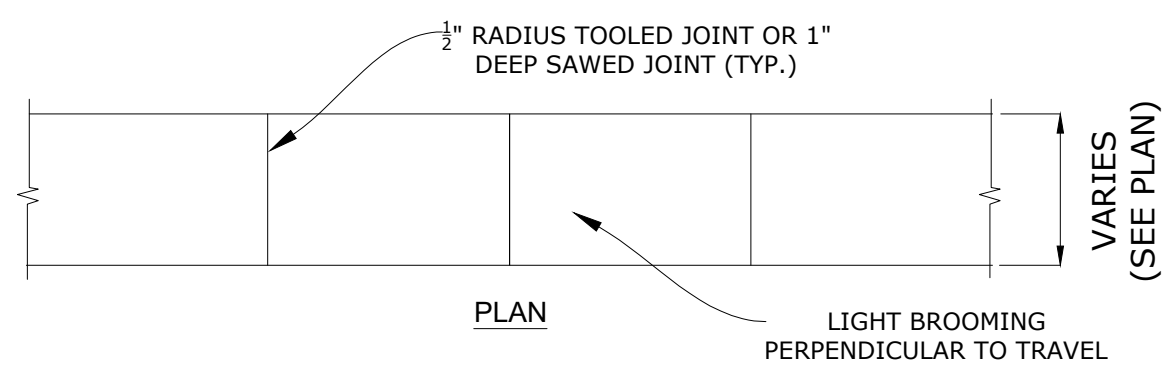
SHEET  
**14.5**



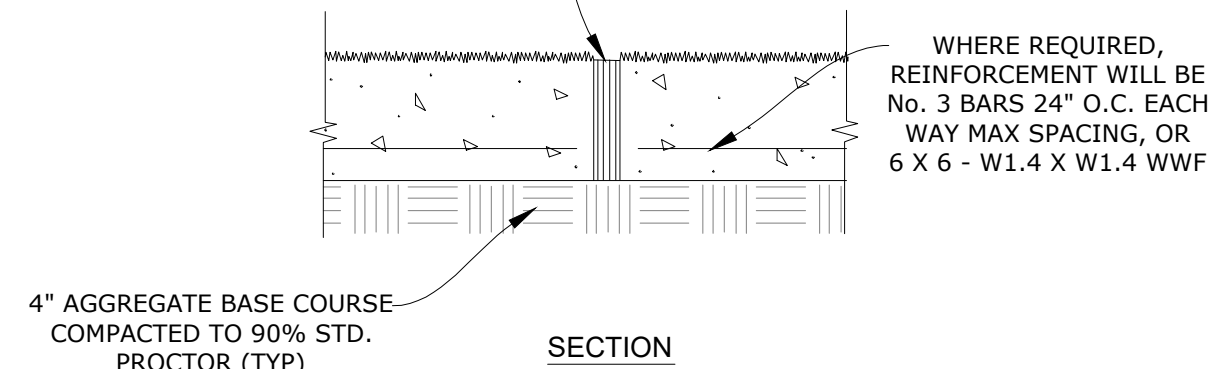
CURB RAMP DETECTABLE WARNING DETAIL  
N.T.S.



\* ADJACENT TO THE ADA SPACES ON THE SOUTH SIDE OF THE BUILDING, SIDEWALK (4") TO BE FLUSH W/ ASPHALT.

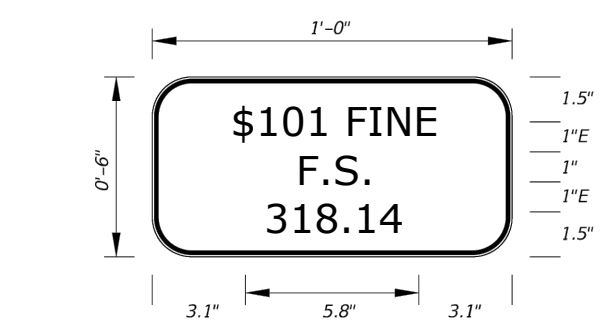
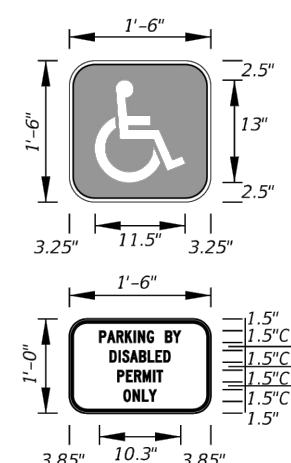
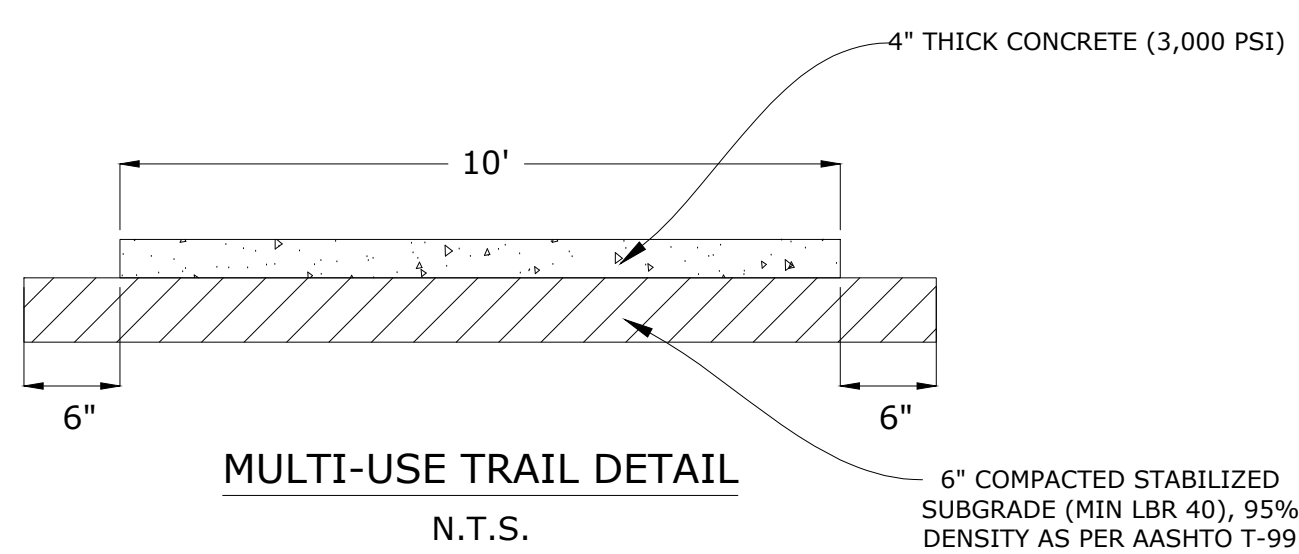


1/4" THICKNESS PREMOLED EXPANSION JOINT FILLER SPACED @ 35' O.C. MAX.



CONCRETE SIDEWALK DETAIL  
N.T.S.

- NOTES:
- SEE FDOT INDEX NO. 522-001 FOR CONCRETE SIDEWALK DETAILS.
  - USE 1/2" EXPANSION JOINT AND SEALER BETWEEN SIDEWALK AND ALL FIXED OBJECTS.
  - AT CURB-SIDEWALK LINE USE CONTROL JOINT FOR MONOLITHIC POUR OR EXPANSION JOINT OTHERWISE.
  - SIDE WALK SHALL SLOPE AWAY FROM FROM BUILDING @ +/- 2%.
  - CONCRETE SHALL BE 3,000 PSI, 4" THICK (MIN).



Face of Curb

3'-6" White Diagonal Equally Spaced Per Aisle

6" White

Sign FTP-018-25 and FTP-019A-25

Face of Curb

6" White (Typ.)

3'-6" White Diagonal Equally Spaced Per Aisle

Sign FTP-018-25 and FTP-019A-25

Face of Curb

6" White (Typ.)

Sign FTP-018-25 and FTP-019A-25

Face of Curb

6" White (Typ.)

Sign FTP-018-25 and FTP-019A-25

UNIVERSAL SYMBOL OF ACCESSIBILITY

2'-8"

3'-0"

4'-4"

4.53 S.F.

(See Note 5)

NOTES:

- Dimensions are to the centerline of markings.
- An Access Aisle is required for each accessible space when angle parking is used.
- Criteria for pavement markings only, not public sidewalk curb ramp locations. For ramp locations refer to plans.
- Mount FTP-019A-25 sign below the FTP-018-25 sign.
- Use of the pavement symbol in accessible parking spaces is optional. When pavement symbol is used, the symbol is either 3'-0" or 5'-0" high and white in color.

FOR ACCESSIBLE MARKINGS - SEE ABOVE

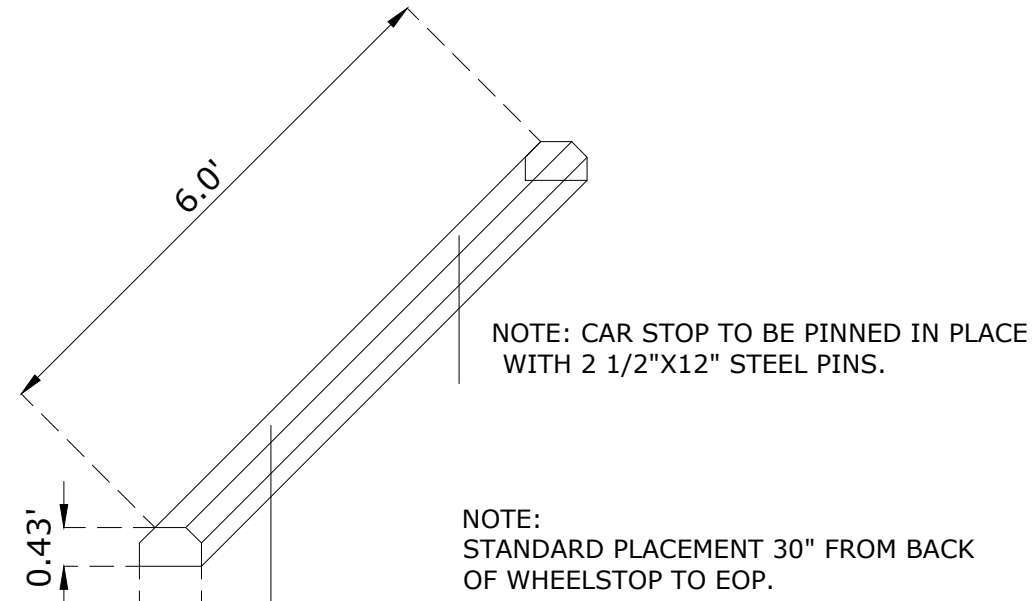
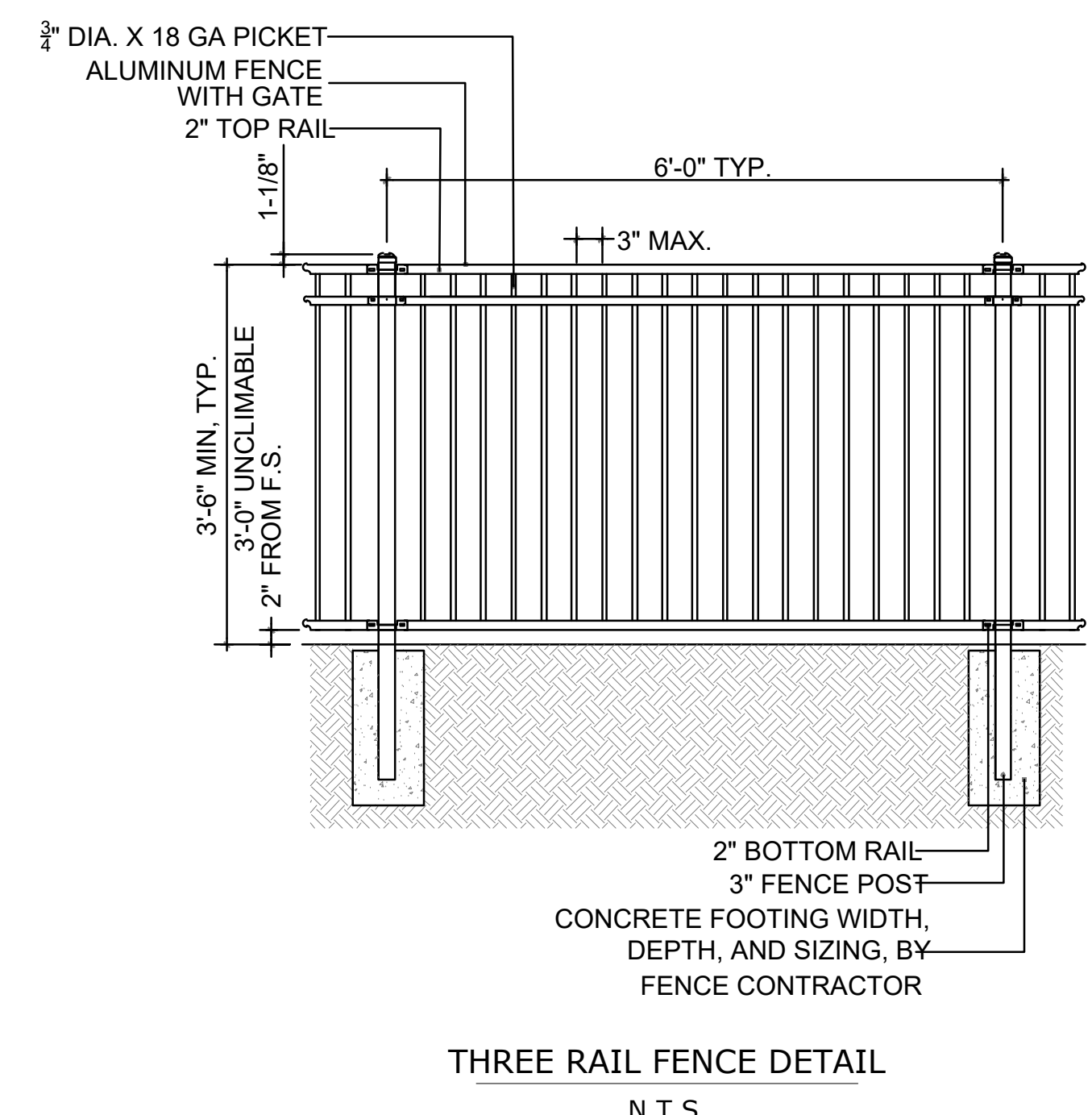
DIMENSIONS	
Δ B	"A" "B" "C" "D" "E"
45°	17'-0" 12'-9" 7'-0" 24'-0" 17'-0"

PAVEMENT MARKING FOR PARKING

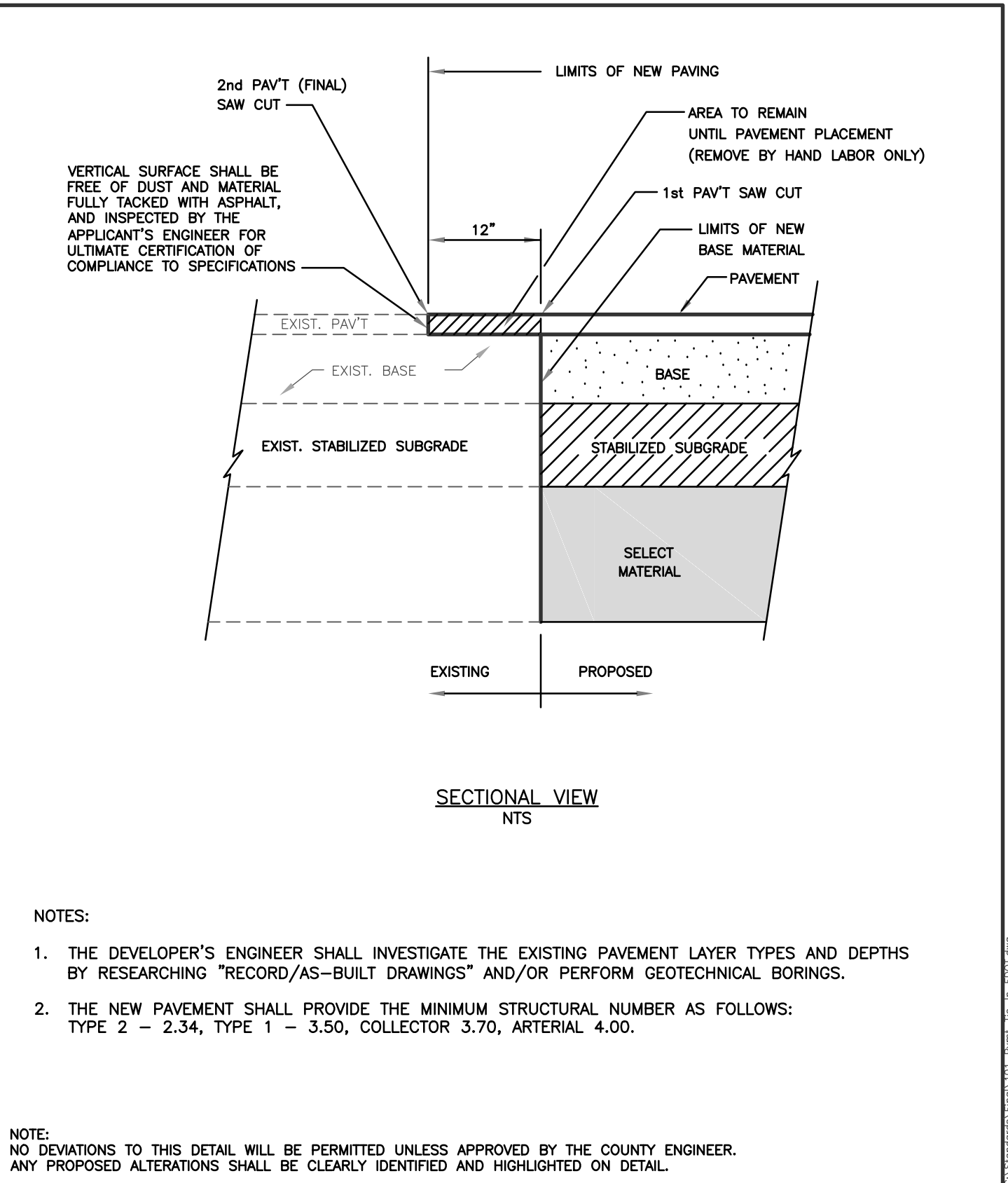
LAST REVISION	DESCRIPTION	INDEX	SHEET
11/01/25		711-001	11 of 13

FY 2026-27 STANDARD PLANS

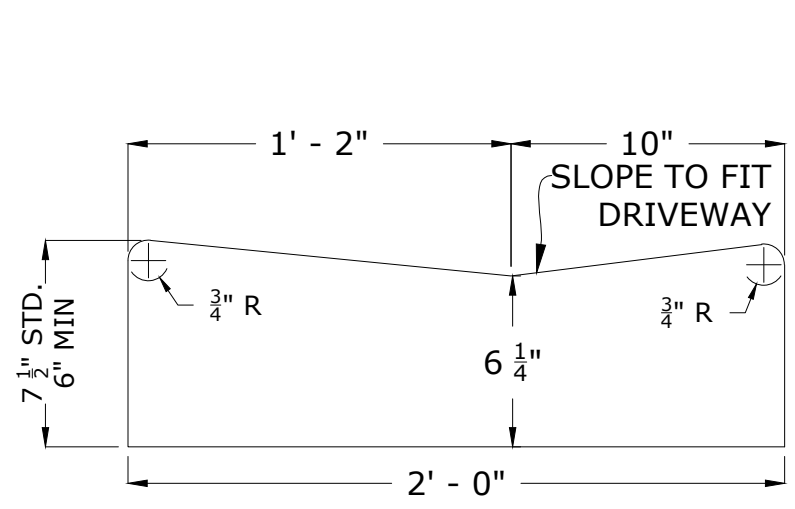
PAVEMENT MARKINGS



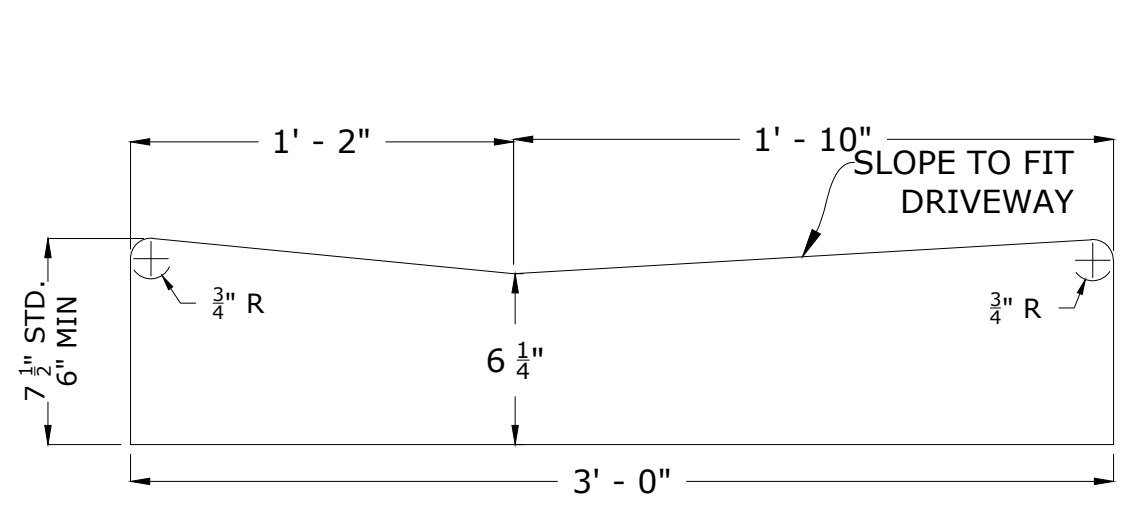
14 BIKE RACK PLAN  
SCALE: NTS



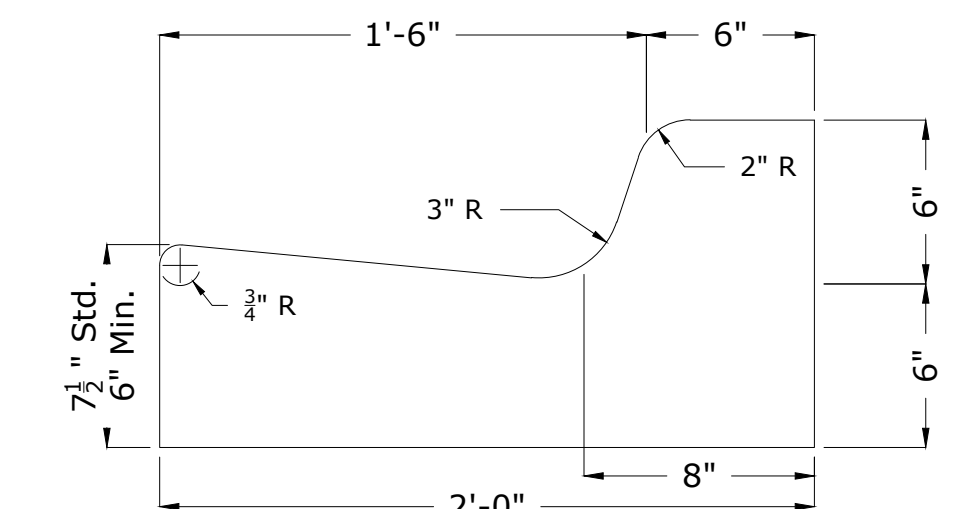
PASCO COUNTY ENGINEERING SERVICES	DESIGN STANDARDS	APPROVED BY: JOM	BCC APPROVAL REVISED	Sheet No. 1 of 1
PAVEMENT TIE-IN SAW CUT DETAIL				Index No. 101



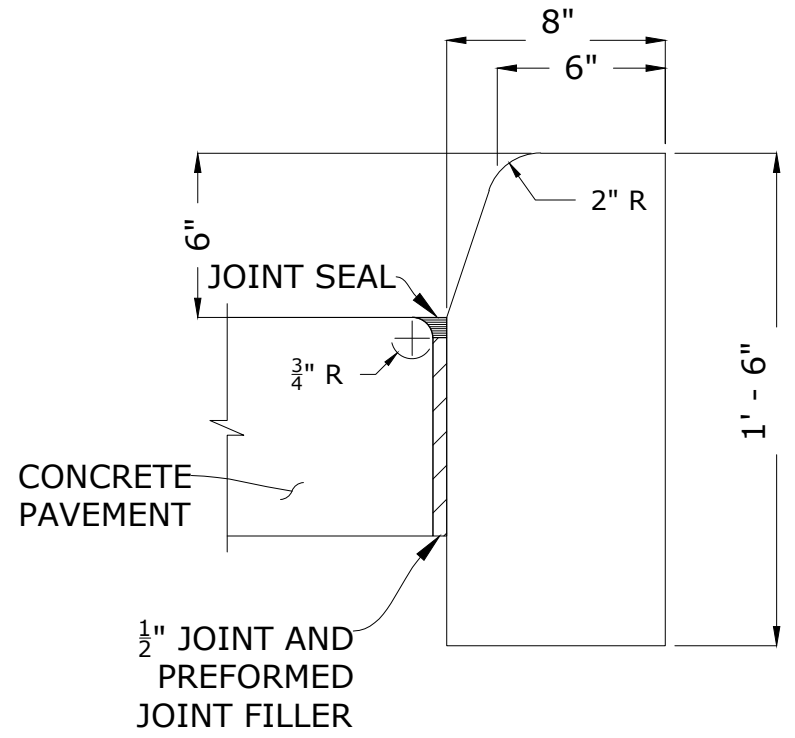
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PER FDOT INDEX NO. 520-001



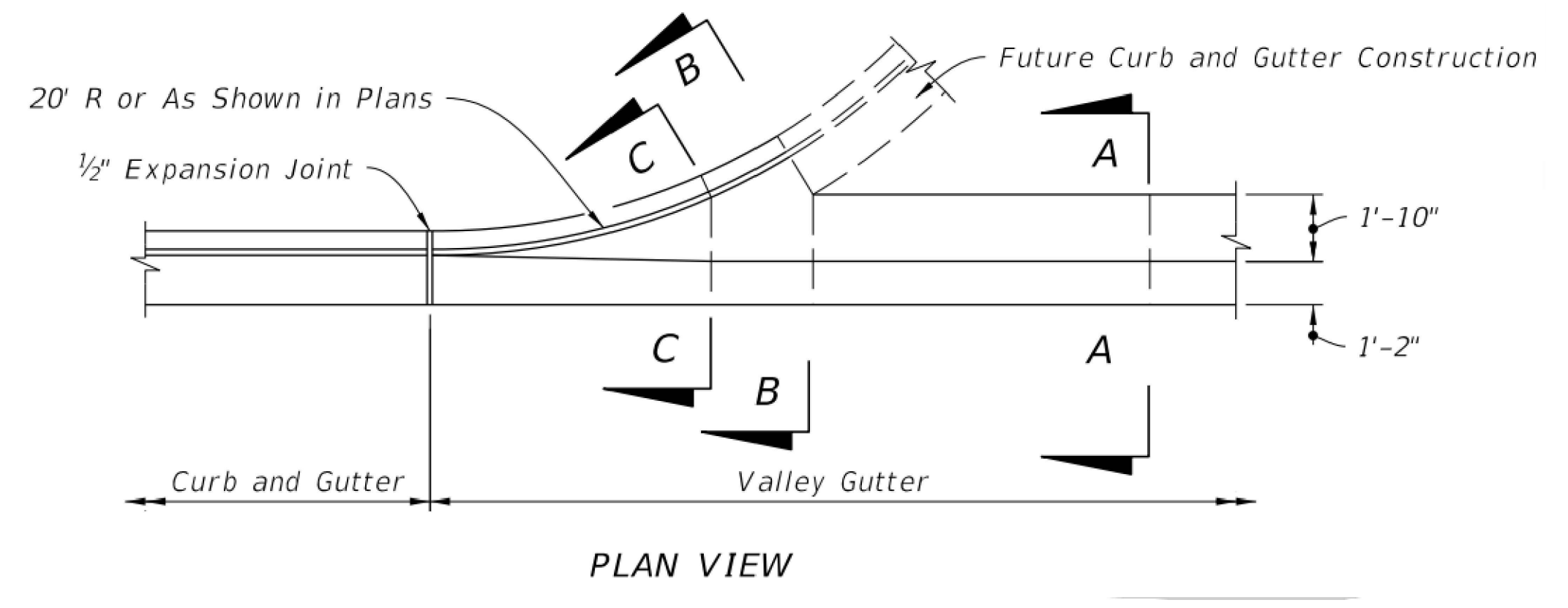
"VALLEY" CURB  
PER FDOT INDEX NO. 520-001



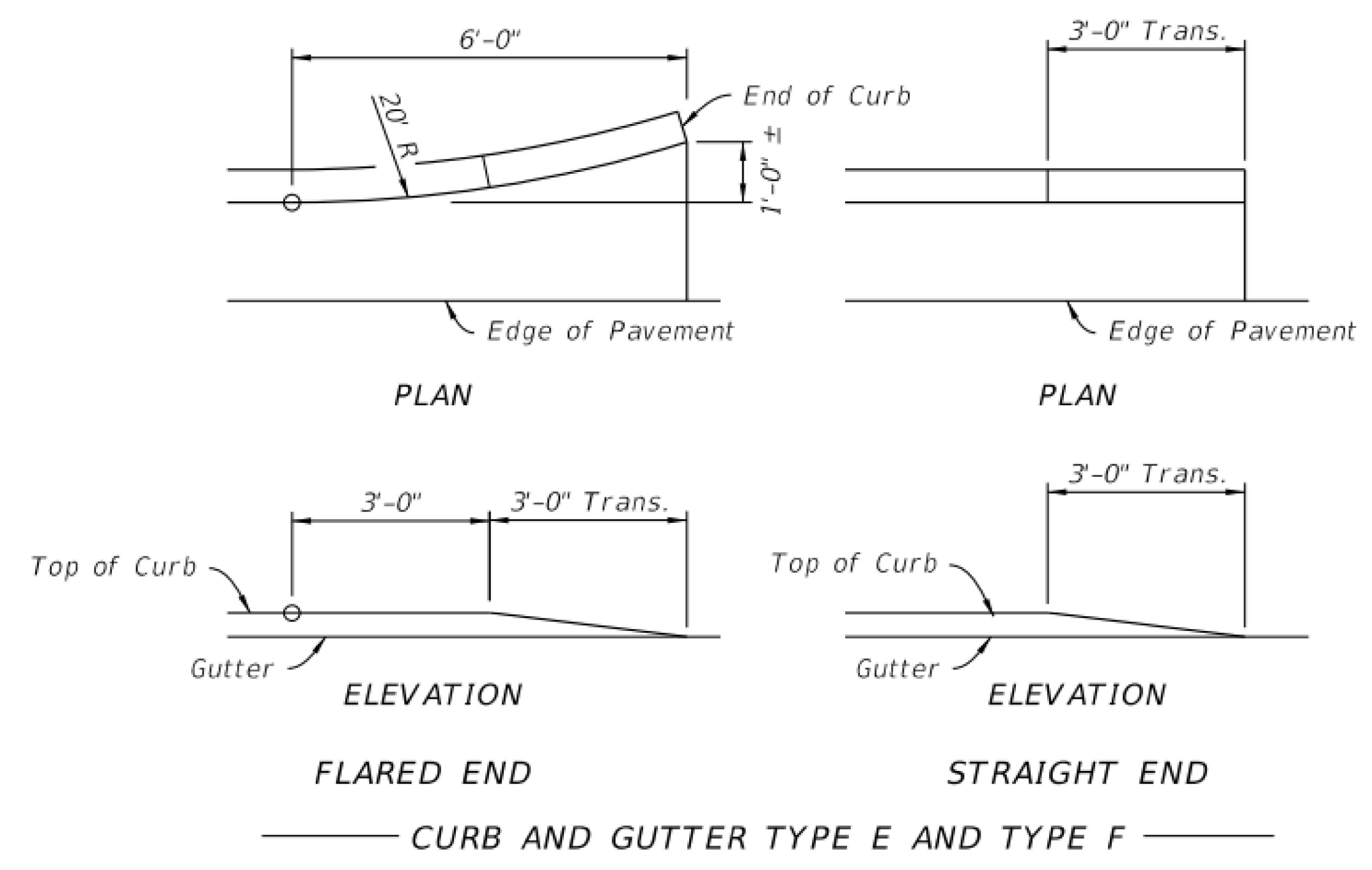
TYPE "F" CURB  
PER FDOT INDEX NO. 520-001



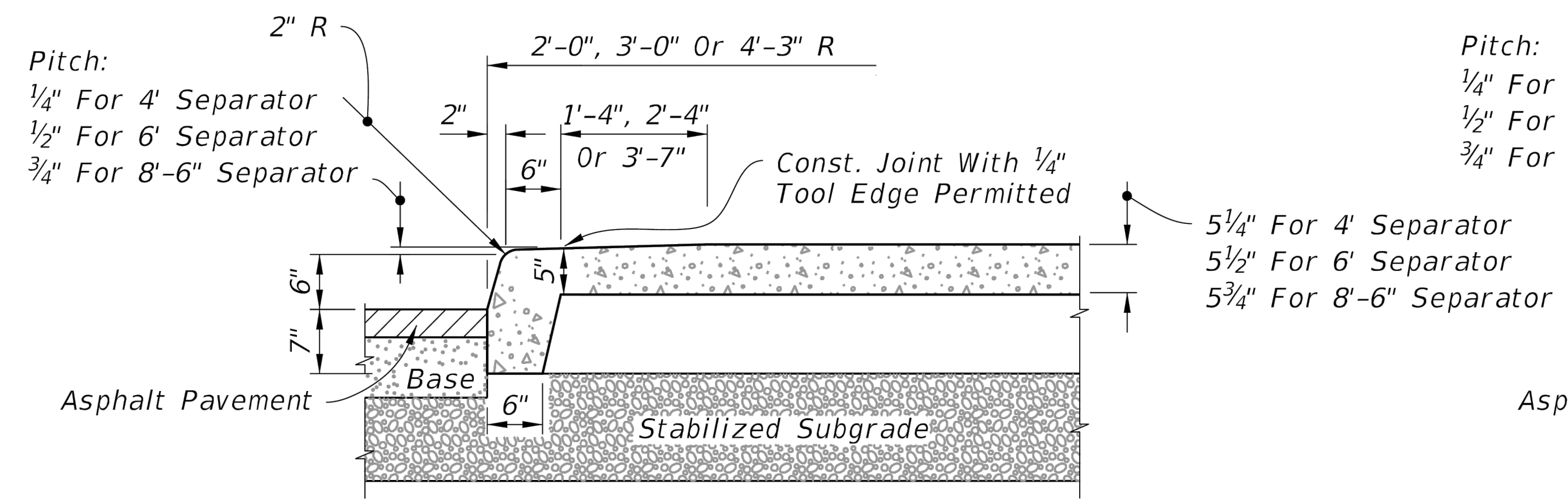
TYPE "D" CURB  
PER FDOT INDEX NO. 520-001



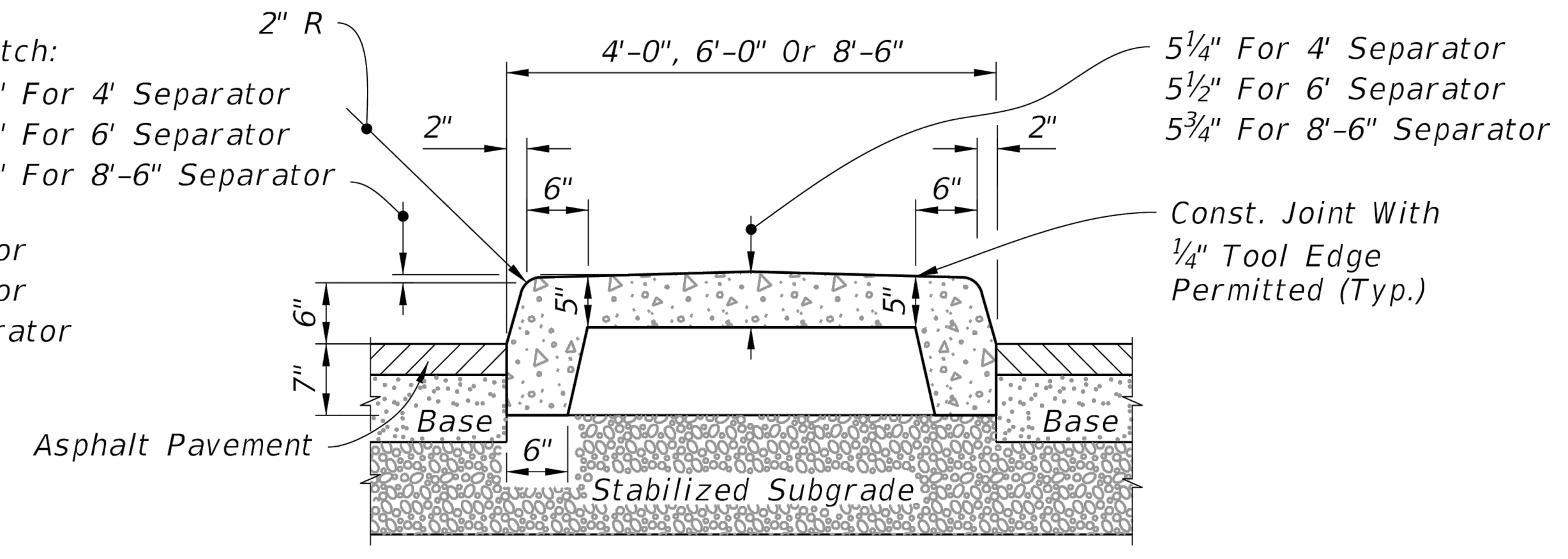
PLAN VIEW



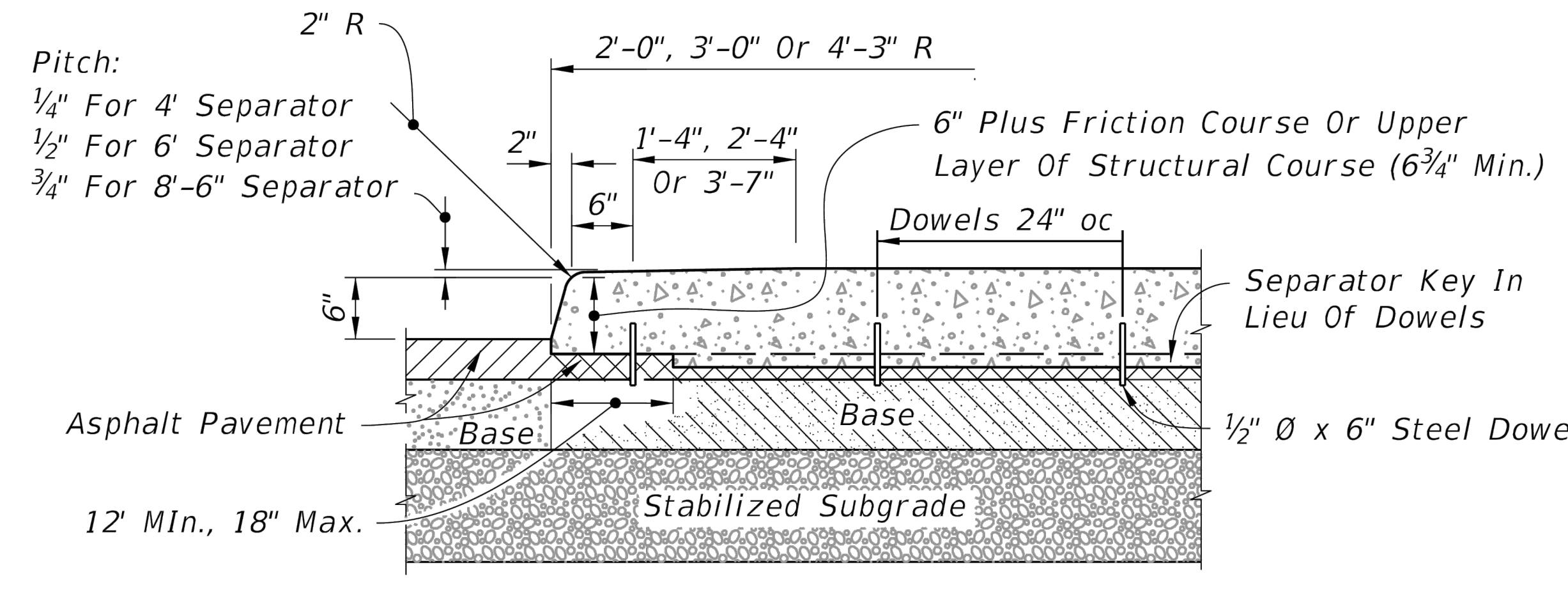
NOTE: 3-FT TRANSITION REQUIRED FOR ALL TYPE D CURBS AS WELL



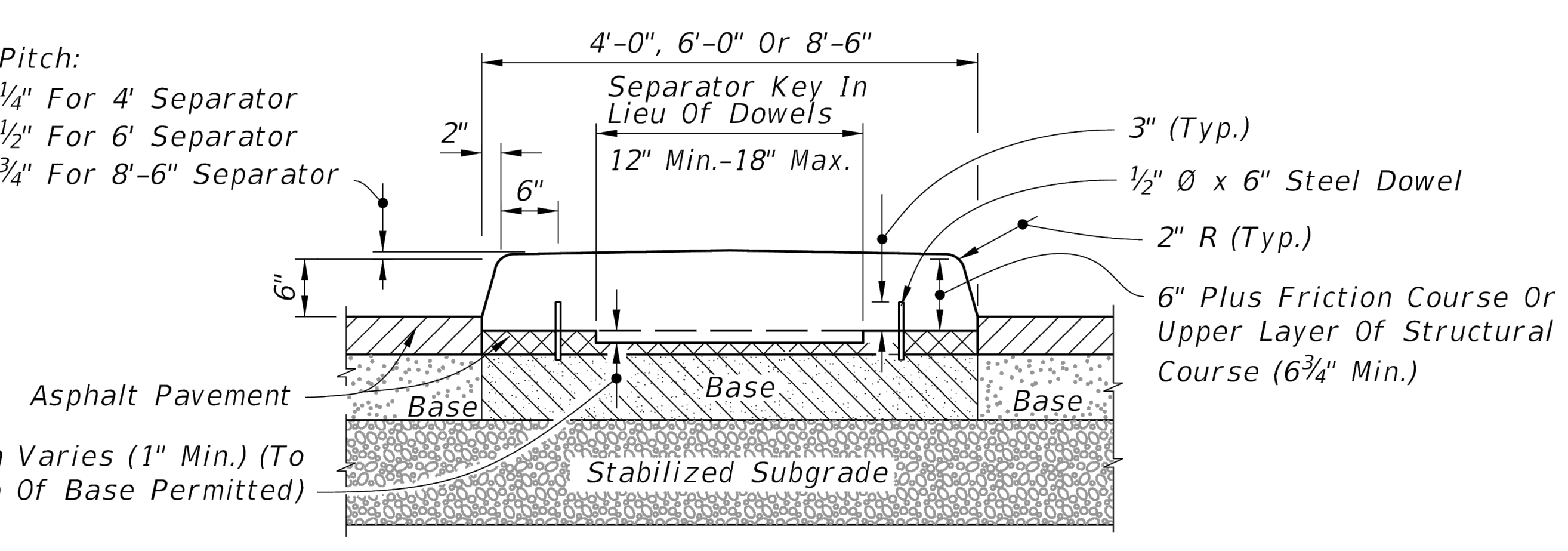
OPTION I



OPTION II



OPTION I



OPTION II

TYPE IV - CONCRETE TRAFFIC SEPARATOR

GENERAL DETAILS

AVENTON LITTLE MULTIFAMILY  
PASCO COUNTY, FLORIDA

DRAWING SHALL UNLESS SHOWN, DATED & SEALED BY REGISTERED PROFESSIONAL

**REGENCY**  
Design & Engineering, Inc.

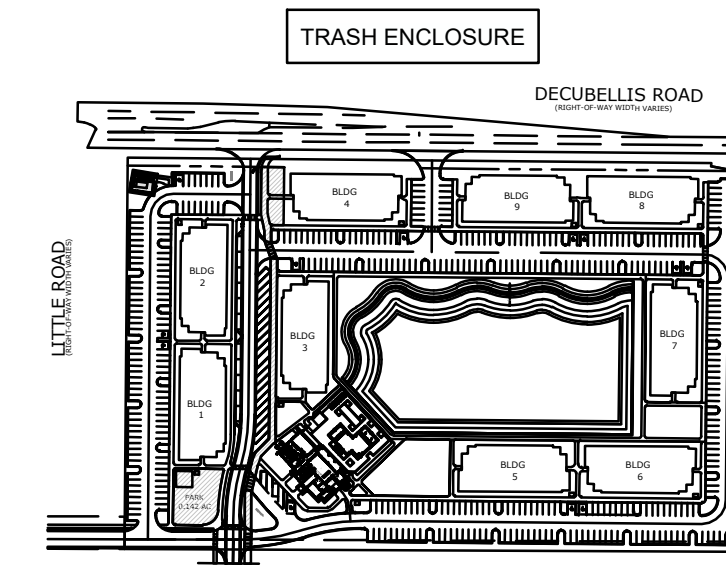
9400 RIVER CROSSING BOULEVARD, SUITE 102 NEW PORT RICHEY, FLORIDA 34655  
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DATE	REV. BY	REV. NO.	REVISION

PLOT DATE TIME: Monday, February 09, 2025 @ 11:07 AM  
R:\01-000-Projects\212\_Aventon Holdings II\CL\4865 - Aventon Little Road Design and Permitting\Drawings\CAD\15\_DETAILS.dwg

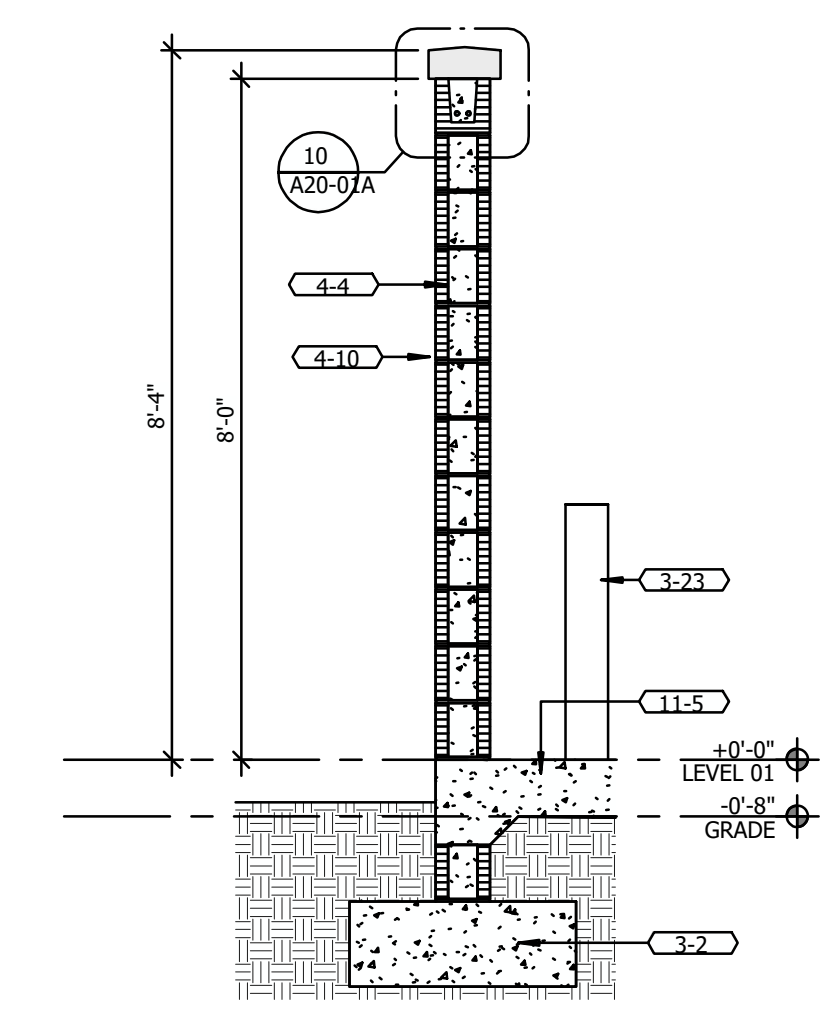
OCCUPANCY CLASSIFICATION	CONSTRUCTION TYPE	SPRINKLER STATUS
GROUP U, UTILITY (FBC-B 312.0)	TYPE V-B	UNSPRINKLERED
BUILDING HEIGHT AND AREA LIMITATIONS	MAX ALLOWABLE	PROVIDED
GROUP U, UTILITY (FBC-B TABLE 504.3)	HEIGHT: 40'-00" STORIES: 1 AREA: 5,500 SF	HEIGHT: 8'-4" STORIES: 1 AREA: 840 SF



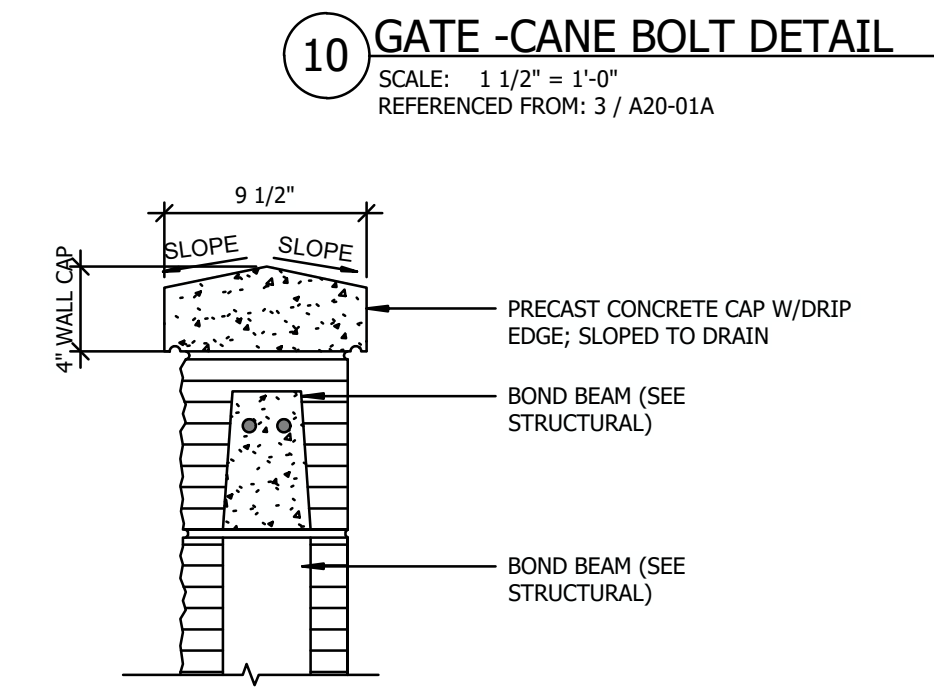
#	NOTE	REV
1	FURNITURE PROVIDED BY TENANT & SHOWN FOR REFERENCE ONLY. UNO. IT IS THE RESPONSIBILITY OF THE FURNITURE VENDOR TO FIELD VERIFY AND ASSURE THAT A MINIMUM OF 4'-4" CLEAR AISLE ACCESS IS PROVIDED THROUGHOUT.	
2	REFER TO SHEET A20-01A FOR DIMENSIONED FRAMING PLAN FOR WALL TYPES AND TOP PLATE CONNECTION TYPES.	

#	NOTE	REV
1	EXTERIOR PAINT TO INCLUDE M1 ADDITIVE TO PREVENT MILDEW AND FUNGUS GROWTH.	
2	PAINT SHALL BE SHERWIN WILLIAMS 25 YR SUPER PAINT OR APPROVED EQ.	
3	ALL METAL PAINT TO BE ENAMEL BASE.	
4	GENERAL CONTRACTOR TO PROVIDE SUBMITTALS FOR ALL EXTERIOR LIGHT FIXTURES FOR APPROVAL BY ARCHITECT AND OWNER, PRIOR TO PURCHASE AND INSTALLATION COMPLYING W/ APPLICABLE ADA GUIDELINES.	
5	CONTRACTOR TO PAINT ALL EXPOSED PIPES, CONDUITS, DISCONNECTS & JUNCTION BOXES TO MATCH ADJACENT SURFACE.	
6	CONTRACTOR TO PROVIDE FOR COMPONENTS AND CLADDING A FLORIDA PRODUCT APPROVAL OR NOTICE OF ACCEPTANCE FROM STATE OF FLORIDA AND SUBMITTALS FOR APPROVAL BY ARCHITECT, ENGINEER, AND COUNTY PRIOR TO ORDERING AND CONSTRUCTION.	
7	ELEVATION HEIGHTS ARE FOR REFERENCE ONLY TO THE ARCHITECTURAL DRAWINGS. REFER TO CIVIL DRAWINGS FOR ACTUAL FLOOR HEIGHT ABOVE SEA LEVEL. CONTACT ARCHITECT OF RECORD IF HEIGHTS DIFFER.	
8	COLOR SAMPLES TO BE APPROVED BY OWNER BEFORE APPLICATION. IF PRINTED IN COLOR, THESE ELEVATIONS ONLY OFFER A GENERAL REPRESENTATION OF THE SELECTED COLORS. COLORS VIEWED ON A COMPUTER SCREEN AND THEN PRINTED WILL VARY AND WILL NEVER BE AN EXACT REPRESENTATION OF THE ACTUAL PIGMENT. REFER TO MANUFACTURER PROVIDED COLOR SAMPLES ONLY FOR FINAL APPROVAL.	
9	WHERE COLOR IS SHOWN AS BEING SPECIFIC TO ONE MANUFACTURER, AN EQUIVALENT COLOR BY ANOTHER MANUFACTURER MAY BE SUBMITTED FOR APPROVAL. MANUFACTURERS AND MATERIALS SPECIFIED ARE NOT INTENDED TO LIMIT THE SELECTION OF EQUAL COLORS AND PERFORMANCE FROM OTHER.	
10	DO NOT TRANSITION PAINT COLORS ON AN EXTERIOR CORNER. ALL COLOR CHANGES SHOULD BE AT INTERIOR CORNERS. UNO. CONTACT ARCHITECT IF A CONFLICT OCCURS.	
11	PAINT ALL EXPOSED FACES OF TRIM, INCLUDING EDGES. PAINTING MERELY THE FRONT FACE OF TRIM IS NOT ACCEPTABLE.	

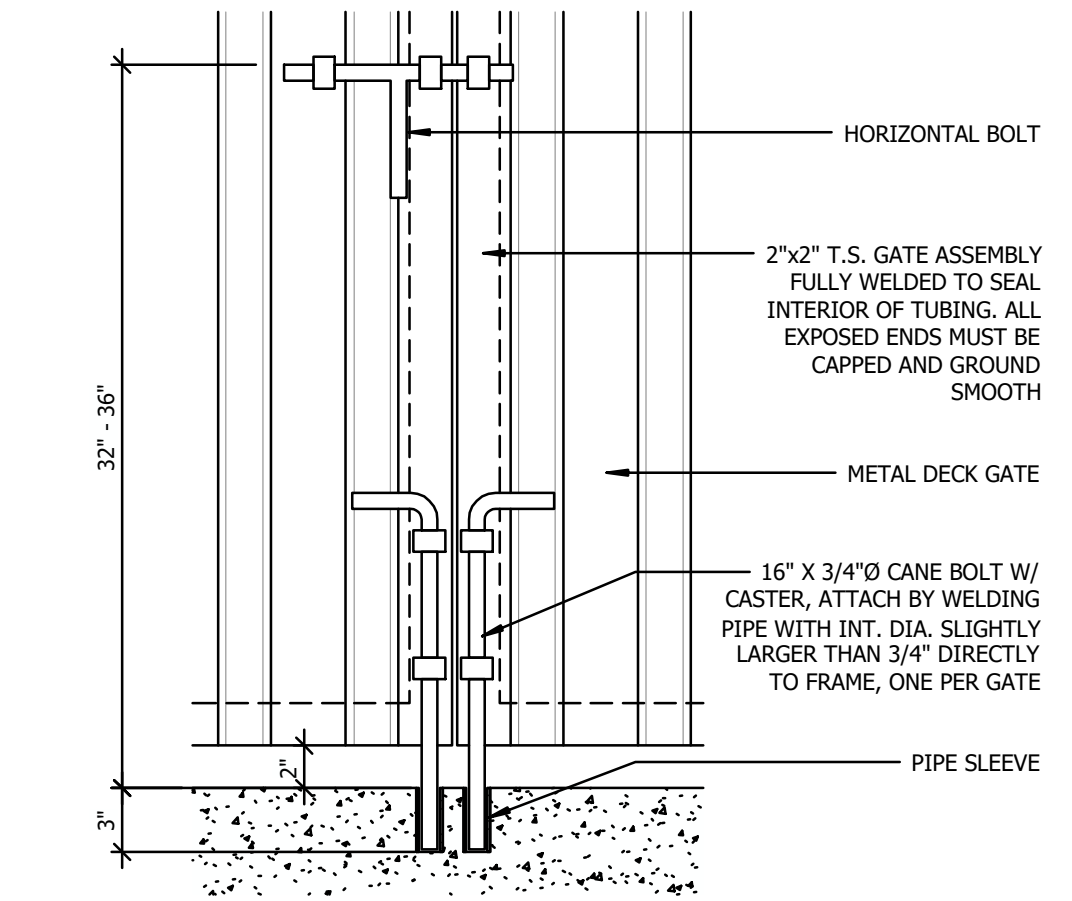
1-2	60" CIRCULAR TURNING SPACE, PER FBC-A 304.3.1
3-1	CONCRETE FLOOR SLAB (SEE STRUCTURAL DWGS)
3-2	CONCRETE FOOTING (SEE STRUCTURAL DWGS)
3-14	PRECAST CAP W/ DRIP EDGE
3-23	CONCRETE FILLED METAL PIPE BOLLARD
3-24	CONCRETE FILLED METAL PIPE BOLLARD W/ GATE ASSEMBLY
4-4	8" CMU (SEE STRUCTURAL DWGS)
4-10	8" SPLIT FACE CMU (SEE ELEVATIONS FOR COLOR)
5-40	METAL GATE
5-43	PRE-FINISHED ALUMINUM RAILING
5-44	1 1/2" HANDRAIL @ 34-36 A.F.F. TREAD; TYP.
11-5	TRASH COMPACTOR
11-6	RECYCLING BIN
26-1	LIGHT FIXTURE (SEE ELECTRICAL DWGS)
26-21	ELECTRICAL PANEL (SEE ELECTRICAL DWGS)
26-22	ELECTRICAL METER (SEE ELECTRICAL)
26-50	ELECTRICAL METER BANK (SEE ELECTRICAL DWGS)



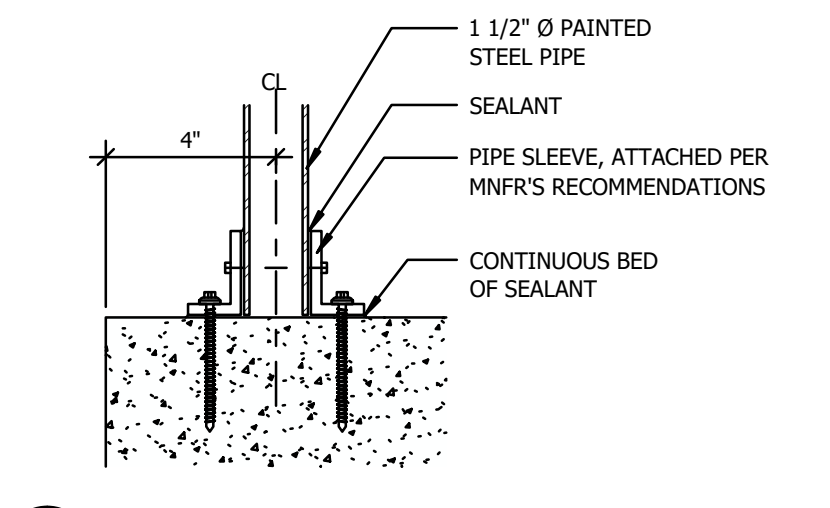
6 WALL SECTION TRASH  
SCALE: 1/2" = 1'-0"



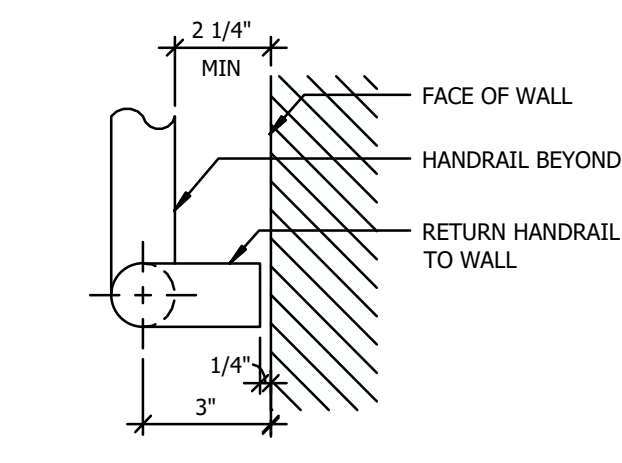
7 WALL CAP DETAIL  
SCALE: 1 1/2" = 1'-0"



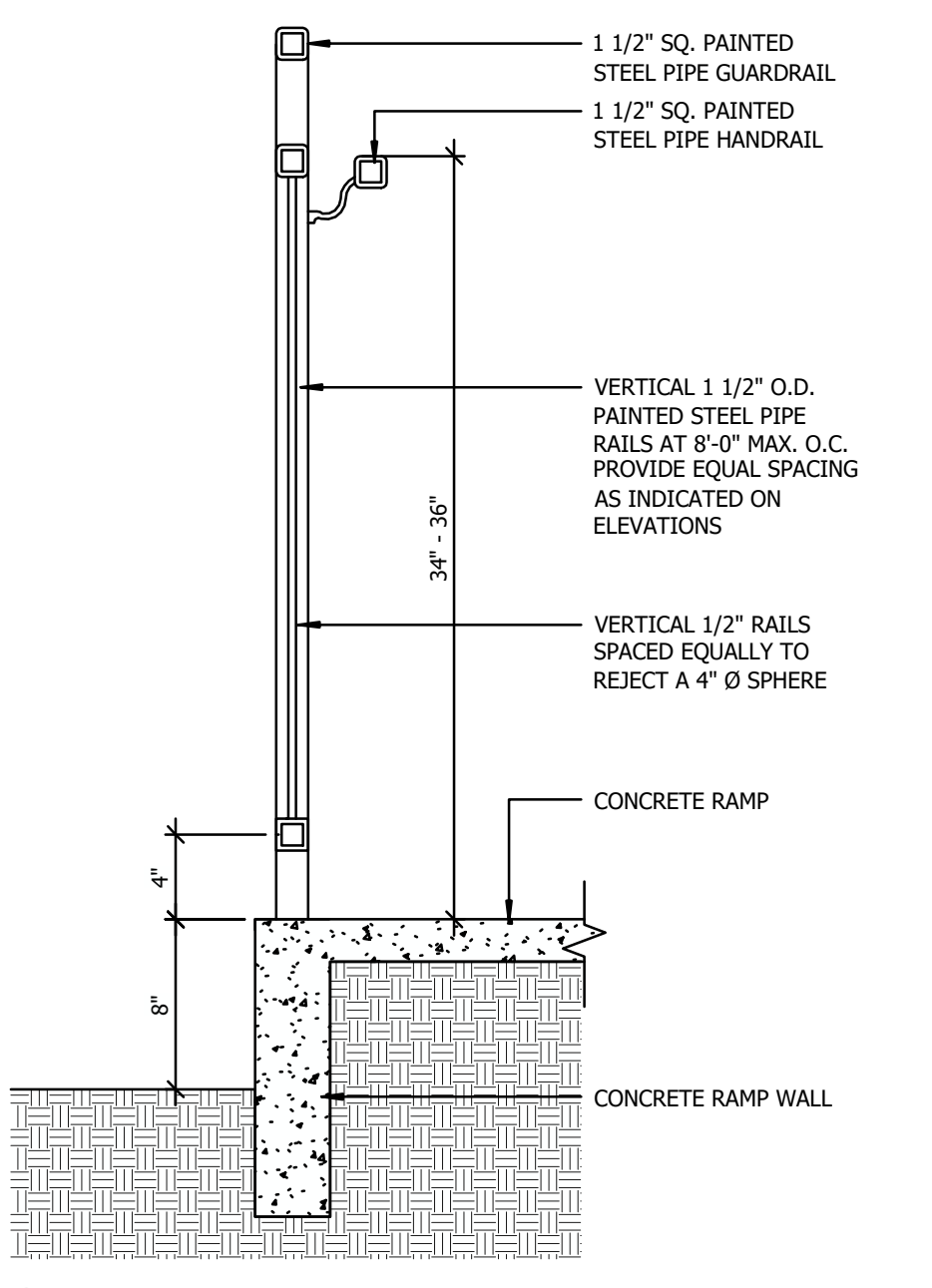
10 GATE - CANE BOLT DETAIL  
SCALE: 1 1/2" = 1'-0"  
REFERENCED FROM: 3 / A20-01A



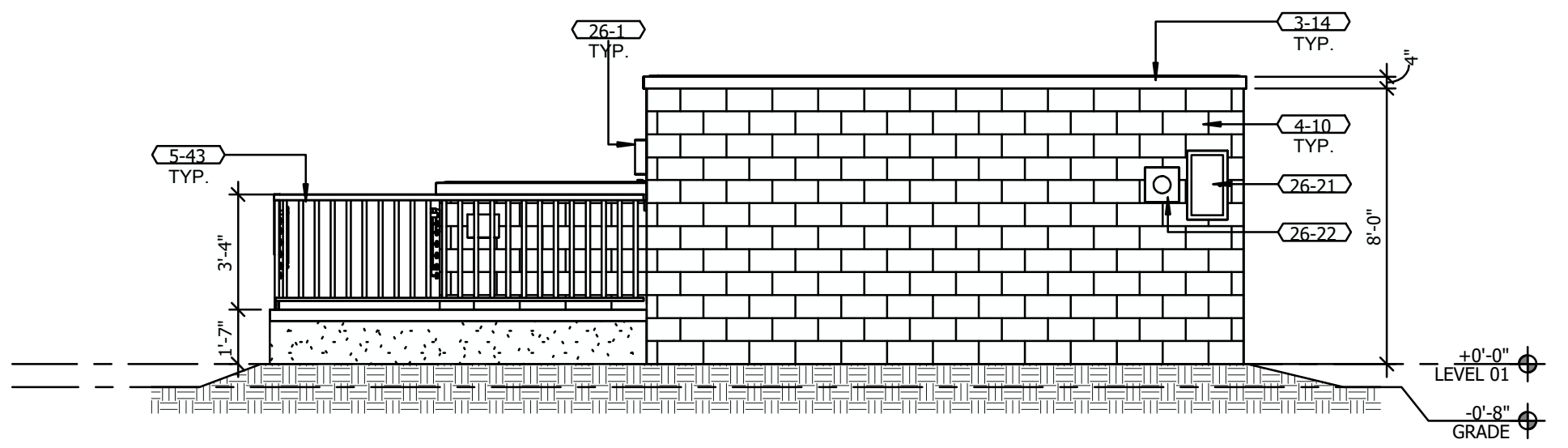
9 GUARDRAIL CONNECTION  
SCALE: 3" = 1'-0"



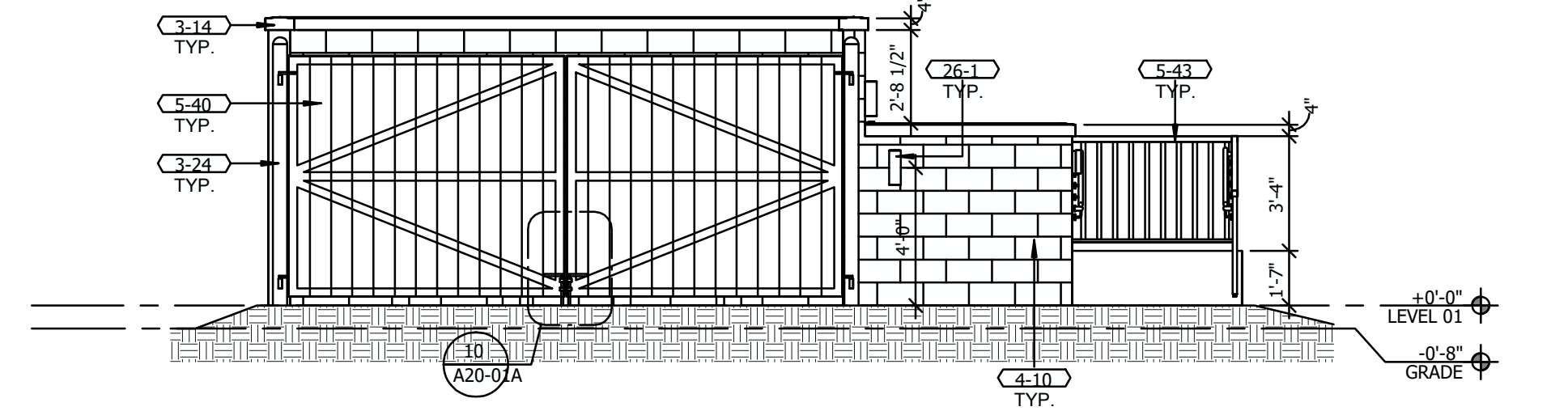
8 HANDRAIL RETURN DETAIL  
SCALE: 3" = 1'-0"



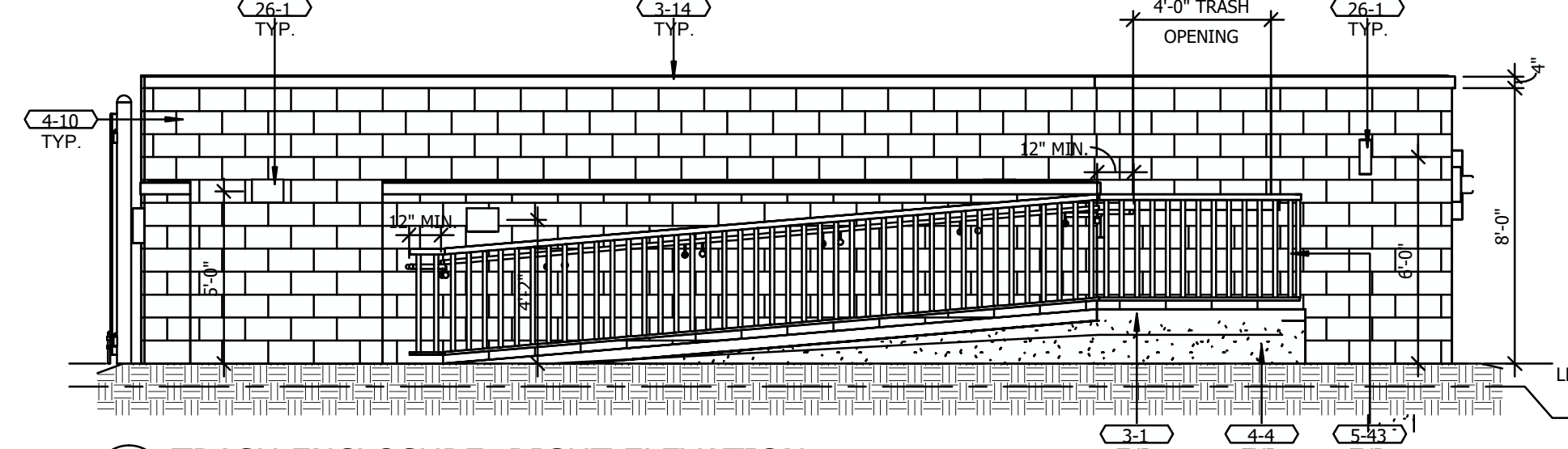
12 RAMP GUARDRAIL DETAIL  
SCALE: 1 1/2" = 1'-0"



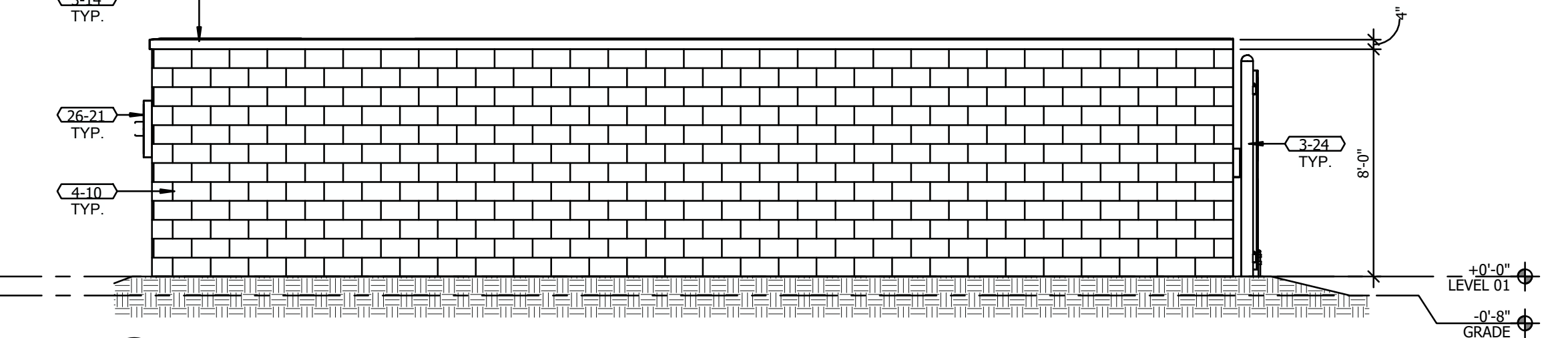
4 TRASH ENCLOSURE -REAR ELEVATION  
SCALE: 1/4" = 1'-0"



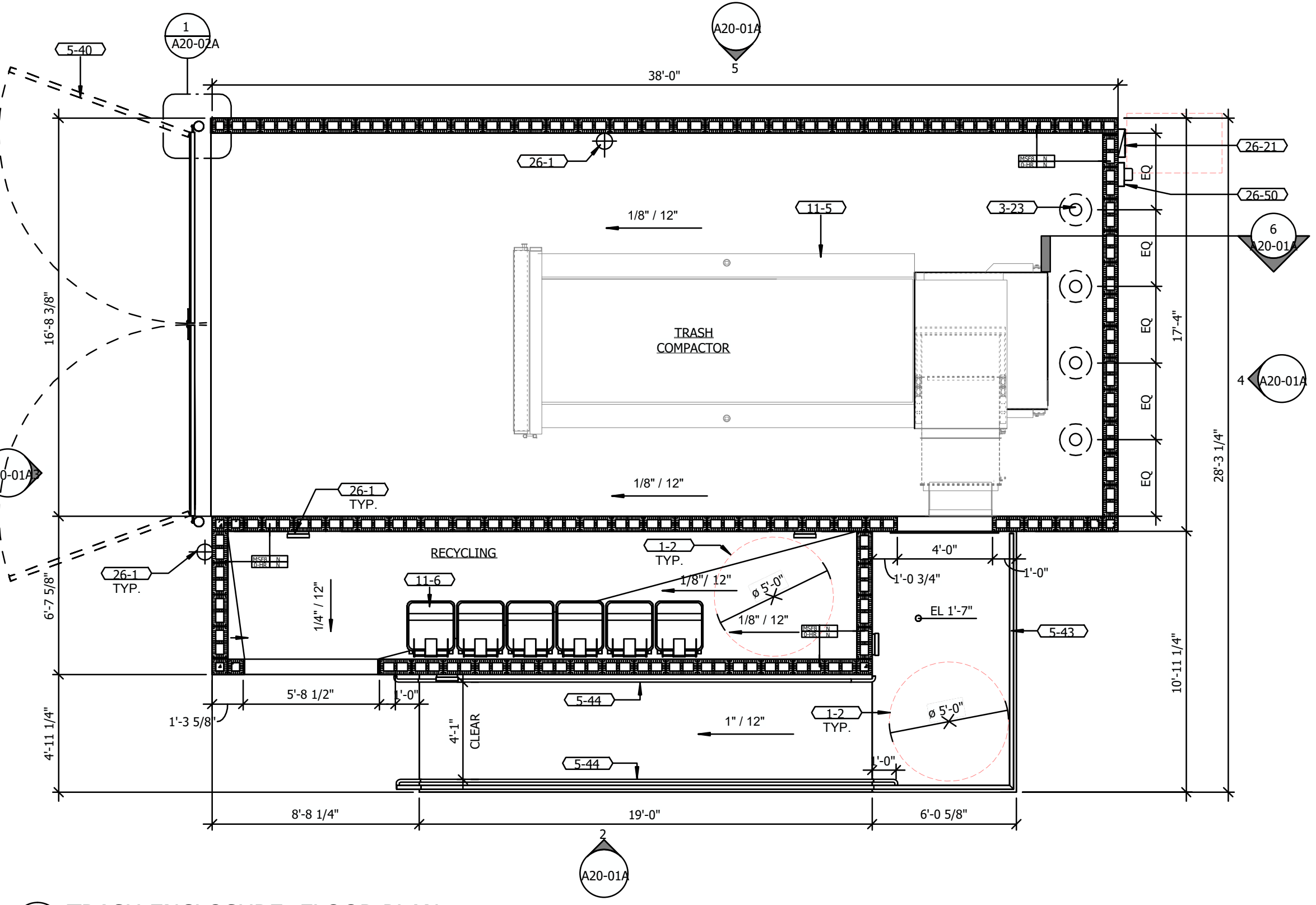
3 TRASH ENCLOSURE -FRONT ELEVATION  
SCALE: 1/4" = 1'-0"



2 TRASH ENCLOSURE -RIGHT ELEVATION  
SCALE: 1/4" = 1'-0"



5 TRASH ENCLOSURE -LEFT ELEVATION



1 TRASH ENCLOSURE -FLOOR PLAN  
SCALE: 1/4" = 1'-0"

DETAIL IS PROVIDED FOR GENERAL INFORMATION ONLY. A SEPARATE PERMIT AND SET OF PLANS ARE REQUIRED PRIOR TO CONSTRUCTION.

**GENERAL DETAILS**

AVENTON LITTLE MULTIFAMILY  
PASCO COUNTY, FLORIDA

**REGENCY**  
Design & Engineering, Inc.

9400 RIVER CROSSING BOULEVARD, SUITE 102 NEW PORT RICHEY, FLORIDA 34665  
727-375-1155 EXT. 202 - FAX 727-375-1156  
CERTIFICATE OF AUTHORIZATION NO. 28366

DATE	REV. BY	REV. NO.

SHEET  
**15B**

PLOT DATE: 11/16/2023 10:00 AM  
 PLOT BY: RBE  
 PROJECT: A20-01A  
 DRAWING: A20-01A  
 SCALE: 1/4" = 1'-0"  
 SHEET: 15B

**DRAINAGE STRUCTURE TABLE**

S-100A STORM MANHOLE (J BOTTOM) FDOT INDEX #425-001 RIM = 25.5 INV IN = 18.2 (W) INV OUT = 18.2 (S)	S-114 STORM MANHOLE (J BOTTOM) FDOT INDEX #425-001 RIM = 26.2 INV IN = 19.7 (N) INV OUT = 19.7 (E)	S-124 NYOPLAST (OR EQUAL) 18"X18" YARD DRAIN GRATE ELEV = 25.2 INV OUT = 21.6 (S)	S-144 INLET TYPE C FDOT INDEX #425-052 GRATE = 24.9 INV OUT = 20.0 (W)	S-151 STORM MANHOLE (J BOTTOM) FDOT INDEX #425-001 RIM = 26.0 INV IN = 19.8 (N) INV OUT = 19.8 (E)
S-101 INLET TYPE C FDOT INDEX #425-052 GRATE = 24.9 INV IN = 18.5 (W) INV IN = 20.0 (SW) INV OUT = 18.5 (E)	S-115 INLET TYPE C FDOT INDEX #425-052 GRATE = 25.7 INV IN = 20.2 (W) INV IN = 20.2 (E) INV IN = 20.0 (NE) INV OUT = 20.0 (S)	S-131 INLET TYPE C FDOT INDEX #425-052 GRATE = 25.5 INV IN = 20.2 (SE) INV IN = 20.2 (S) INV IN = 20.1 (E) INV IN = 21.0 (W) INV OUT = 20.1 (N)	S-145 INLET TYPE C FDOT INDEX #425-052 GRATE = 25.5 INV IN = 17.6 (W) INV IN = 18.8 (NW) INV IN = 21.7 (NE) INV OUT = 17.6 (E)	S-152 INLET TYPE C FDOT INDEX #425-052 GRATE = 25.0 INV OUT = 20.3 (S)
S-102 INLET TYPE 3 (L) FDOT INDEX #425-020 THROAT = 25.0 INV IN = 19.2 (W) INV OUT = 18.9 (E)	S-115A INLET TYPE C FDOT INDEX #425-052 GRATE = 25.0 INV OUT = 20.3 (SW)	S-132 NYOPLAST (OR EQUAL) 18"X18" YARD DRAIN GRATE ELEV = 25.6 INV IN = 20.2 (E) INV OUT = 20.2 (W)	S-146 INLET TYPE V FDOT INDEX #425-041 GRATE = 25.5 INV IN = 20.0 (W) INV IN = 19.8 (NE) INV OUT = 19.3 (SE)	S-154 INLET TYPE 9 FDOT INDEX #425-024 THROAT = 25.7 INV IN = 19.4 (W) INV IN = 20.3 (N) INV IN = 20.2 (S) INV OUT = 18.9 (E)
S-103 INLET TYPE 3 (R) FDOT INDEX #425-020 THROAT = 25.0 INV IN = 19.3 (NW) INV IN = 19.3 (S) INV OUT = 19.3 (E)	S-116 STORM MANHOLE (J BOTTOM) FDOT INDEX #425-001 RIM = 26.1 INV IN = 19.6 (NE) INV IN = 18.6 (S) INV OUT = 18.6 (W)	S-133 NYOPLAST (OR EQUAL) 18"X18" YARD DRAIN GRATE ELEV = 25.6 INV OUT = 20.8 (W)	S-147 INLET TYPE 9 FDOT INDEX #425-024 THROAT = 25.5 INV OUT = 20.1 (E)	S-155 INLET TYPE C FDOT INDEX #425-052 GRATE = 25.1 INV OUT = 20.5 (S)
S-104 INLET TYPE V FDOT INDEX #425-041 GRATE = 25.5 INV IN = 19.9 (E) INV OUT = 19.9 (N)	S-117 INLET TYPE C FDOT INDEX #425-052 GRATE = 25.1 INV IN = 20.0 (NW) INV OUT = 20.0 (SW)	S-134 NYOPLAST (OR EQUAL) 18"X18" YARD DRAIN GRATE ELEV = 25.5 INV IN = 20.4 (W) INV OUT = 20.4 (E)	S-148 INLET TYPE C FDOT INDEX #425-052 GRATE = 26.2 INV IN = 20.2 (SE) INV IN = 20.2 (E) INV IN = 23.0 (SE) INV OUT = 20.2 (SW)	S-156 INLET TYPE 9 FDOT INDEX #425-024 THROAT = 25.3 INV IN = 20.0 (S) INV OUT = 20.0 (E)
S-105 INLET TYPE V FDOT INDEX #425-041 GRATE = 25.5 INV OUT = 20.0 (W)	S-117A INLET TYPE C FDOT INDEX #425-052 GRATE = 25.3 INV OUT = 20.3 (SE)	S-135 NYOPLAST (OR EQUAL) 18"X18" YARD DRAIN GRATE ELEV = 25.6 INV OUT = 20.7 (E)	S-148A POOL EQUIPMENT CLEANOUT RIM = 26.9 INV OUT = 20.3 (W)	S-157 INLET TYPE 9 FDOT INDEX #425-024 THROAT = 25.3 INV OUT = 20.2 (N)
S-106 STORM MANHOLE (J BOTTOM) FDOT INDEX #425-001 RIM = 25.9 INV IN = 19.6 (SW) INV IN = 20.2 (SE) INV OUT = 19.6 (SE)	S-118 INLET TYPE C FDOT INDEX #425-052 GRATE = 24.9 INV IN = 19.5 (S) INV OUT = 19.0 (N)	S-140A INLET TYPE C FDOT INDEX #425-052 GRATE = 25.3 INV IN = 16.4 (SW) INV IN = 20.2 (W) INV OUT = 16.4 (N)	S-148B NYOPLAST (OR EQUAL) 18"X18" YARD DRAIN GRATE ELEV = 26.8 INV IN = 24.0 (SE) INV IN = 21.5 (NE) INV IN = 24.1 (E) INV OUT = 21.0 (NW)	S-200 STORM MANHOLE (J BOTTOM) FDOT INDEX #425-001 RIM = 25.0 INV IN = 19.6 (W) INV OUT = 19.5 (S)
S-107 TYPE C INLET FDOT INDEX #425-052 GRATE = 25.0 INV OUT = 20.0 (NE)	S-119 INLET TYPE C FDOT INDEX #425-052 GRATE = 24.9 INV OUT = 20.0 (N)	S-140B NYOPLAST (OR EQUAL) 18"X18" YARD DRAIN GRATE ELEV = 25.7 INV IN = 23.5 (SW) INV OUT = 23.5 (E)	S-148C NYOPLAST (OR EQUAL) 18"X18" YARD DRAIN GRATE ELEV = 26.6 INV IN = 22.0 (NE) INV IN = 23.9 (SE) INV IN = 23.2 (NW) INV OUT = 22.0 (SW)	
S-111 INLET TYPE C FDOT INDEX #425-052 GRATE = 24.9 INV IN = 18.3 (E) INV IN = 18.1 (W) INV OUT = 17.6 (SW)	S-121 INLET TYPE C FDOT INDEX #425-052 GRATE = 25.1 INV IN = 20.0 (S) INV IN = 20.0 (N) INV OUT = 20.0 (W)	S-141 INLET TYPE C FDOT INDEX #425-052 GRATE = 25.9 INV IN = 16.6 (S) INV IN = 23.8 (W) INV IN = 19.9 (W) INV OUT = 16.6 (NE)	S-148D NYOPLAST (OR EQUAL) 18"X18" YARD DRAIN GRATE ELEV = 25.6 INV OUT = 22.5 (SW)	
S-112 STORM MANHOLE (J BOTTOM) FDOT INDEX #425-001 RIM = 25.8 INV IN = 18.9 (W) INV IN = 20.2 (N) INV OUT = 18.4 (E)	S-122 INLET TYPE C FDOT INDEX #425-052 GRATE = 25.3 INV IN = 20.5 (NE) INV OUT = 20.3 (N)	S-142 STORM MANHOLE (J BOTTOM) FDOT INDEX #425-001 RIM = 26.2 INV IN = 17.2 (W) INV IN = 18.3 (E) INV OUT = 16.8 (N)	S-149 STORM MANHOLE (J BOTTOM) FDOT INDEX #425-001 RIM = 27.6 INV IN = 18.4 (W) INV IN = 18.8 (NW) INV OUT = 18.1 (E)	
S-113 INLET TYPE C FDOT INDEX #425-052 GRATE = 24.9 INV IN = 19.3 (W) INV OUT = 19.3 (E)	S-123 NYOPLAST (OR EQUAL) 18"X18" YARD DRAIN GRATE ELEV = 25.2 INV IN = 20.8 (N) INV OUT = 20.8 (S)	S-143 INLET TYPE C FDOT INDEX #425-052 GRATE = 25.0 INV IN = 19.3 (E) INV OUT = 18.8 (W)	S-150 INLET TYPE C FDOT INDEX #425-052 GRATE = 26.4 INV IN = 19.5 (W) INV IN = 20.2 (N) INV OUT = 19.0 (SE)	

**YARD DRAIN STRUCTURE TABLE**

TD-3 TURF DRAIN CONNECTION TOP = 27.5 INV IN = 24.0 (S) INV OUT = 23.9 (E)	YD-5 YARD DRAIN GRATE = 27.4 INV OUT = 24.4 (SE)	YD-12 YARD DRAIN GRATE = 26.6 INV OUT = 23.9 (SW)	YD-18 YARD DRAIN GRATE = 27.0 INV IN = 24.2 (SE) INV OUT = 24.0 (NE)
TD-9 TRENCH DRAIN CONNECTION TOP = 27.7 INV OUT = 24.3 (S)	YD-6 YARD DRAIN GRATE = 27.1 INV IN = 24.2 (NW) INV IN = 24.1 (W) INV OUT = 24.0 (E)	YD-13 YARD DRAIN GRATE = 26.8 INV IN = 23.0 (NW) INV OUT = 23.0 (SE)	YD-19 YARD DRAIN GRATE = 27.0 INV IN = 24.3 (E) INV OUT = 24.3 (NW)
TD-20 TRENCH DRAIN CONNECTION TOP = 27.7 INV OUT = 24.5 (W)	YD-7 YARD DRAIN GRATE = 27.5 INV OUT = 24.5 (SE)	YD-14 YARD DRAIN GRATE = 27.0 INV IN = 23.3 (NW) INV OUT = 23.3 (SE)	YD-21 YARD DRAIN GRATE = 27.4 INV IN = 23.3 (SE) INV OUT = 23.3 (NW)
YD-1 YARD DRAIN GRATE = 27.2 INV IN = 23.8 (W) INV IN = 23.4 (NW) INV OUT = 23.7 (NE)	YD-8 YARD DRAIN GRATE = 27.3 INV IN = 24.2 (N) INV OUT = 24.2 (E)	YD-15 YARD DRAIN GRATE = 26.7 INV OUT = 23.7 (SE)	YD-22 YARD DRAIN GRATE = 27.5 INV OUT = 23.5 (NW)
YD-2 YARD DRAIN GRATE = 27.4 INV OUT = 23.8 (SE)	YD-10 YARD DRAIN CLEANOUT TOP = 26.3 INV IN = 22.6 (NE) INV IN = 22.7 (NW) INV OUT = 22.6 (SW)	YD-16 YARD DRAIN GRATE = 27.3 INV OUT = 24.1 (NW)	YD-23 YARD DRAIN GRATE = 27.0 INV OUT = 24.3 (NW)
YD-4 YARD DRAIN GRATE = 27.2 INV IN = 24.1 (NW) INV OUT = 24.1 (N)	YD-11 YARD DRAIN GRATE = 26.2 INV IN = 23.6 (NE) INV OUT = 23.3 (SW)	YD-17 YARD DRAIN GRATE = 27.0 INV IN = 23.1 (SE) INV IN = 23.9 (SW) INV OUT = 24.2 (W)	YD-24 YARD DRAIN GRATE = 26.4 INV OUT = 23.4 (SE)

NOTE: SEE LANDSCAPE PLANS (BY INNOVATIONS DESIGN GROUP DATED 02/26/2026) FOR YARD DRAIN SPECIFICATIONS

**OUTFALL STRUCTURE TABLE**

FES-100 FLARED END SECTION FDOT INDEX #430-020 INV IN = 17.0 (N)
FES-110 FLARED END SECTION FDOT INDEX #430-020 INV IN = 17.0 (NE)
FES-120 FLARED END SECTION FDOT INDEX #430-020 INV IN = 17.2 (E)
FES-130 FLARED END SECTION FDOT INDEX #430-020 INV IN = 17.2 (S)
FES-140 FLARED END SECTION FDOT INDEX #430-020 INV IN = 16.3 (S)

**EXISTING STRUCTURE TABLE**

EX-01 TYPE C INLET (EXISTING - REPLACED) FDOT INDEX #425-052 GRATE = 25.1 INV OUT = 22.1 (NW)
EX-02 STORM MANHOLE (EXISTING) RIM = 26.2 INV IN = 18.8 (W) INV OUT = 18.8 (E)
EX-03 STORM MANHOLE (EXISTING) RIM = 26.3 INV IN = 18.9 (W) INV OUT = 19.1 (E)
EX-04 CURB INLET (EXISTING) THROAT = 25.0 INV IN = 21.2 (N) INV OUT = 19.8 (E)
EX-05 CURB INLET (EXISTING) THROAT = 25.0 INV OUT = 21.2 (S)

**DRAINAGE DETAILS**

AVENTON LITTLE MULTIFAMILY  
PASCO COUNTY, FLORIDA

DRAWING WALDO UNLESS SHOWN, DATED & SEALED BY REGISTERED PROFESSIONAL

JAMES P. GRANDE, P.E., # 93232



9400 RIVER CROSSING BOULEVARD, SUITE 102 NEW PORT RICHEY, FLORIDA 34665  
727-375-1155 EXT. 202 - FAX 727-375-1156  
CERTIFICATE OF AUTHORIZATION NO. 282666

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REVISION

REV. BY

DATE

**DRAINAGE PIPE TABLE**

NAME	SIZE	MATERIAL	LENGTH	SLOPE	NAME	SIZE	MATERIAL	LENGTH	SLOPE	NAME	SIZE	MATERIAL	LENGTH	SLOPE
100A to FES-100	30"	RCP	87'	1.43%	123 to 121	12"	PVC	77'	1.04%	151 to 150	18"	RCP	70'	0.43%
101 to 100A	30"	RCP	59'	0.43%	124 to 123	12"	PVC	77'	1.04%	152 to 151	18"	RCP	133'	0.38%
102 to 101	24"	RCP	137'	0.29%	131 to FES-130	18"	RCP	13'	21.85%	153 to 149	24"	RCP	220'	0.23%
103 to 102	24"	RCP	31'	0.32%	132 to 131	12"	PVC	22'	0.46%	154 to 153	18"	RCP	26'	0.38%
104 to 103	18"	RCP	184'	0.33%	133 to 132	12"	PVC	58'	1.03%	155 to 153	18"	RCP	20'	0.99%
105 to 104	18"	RCP	24'	0.41%	134 to 131	12"	PVC	86'	-0.70%	156 to 153	18"	RCP	179'	0.34%
106 to 103	18"	RCP	93'	0.32%	135 to 134	12"	PVC	88'	0.34%	157 to 156	18"	RCP	26'	0.77%
107 to 106	18"	RCP	120'	0.33%	140A to FES-140	36"	RCP	22'	0.45%	BLDG 1 to 150	8"	PVC	61'	7.42%
111 to FES-110	30"	RCP	121'	0.50%	140B to 140A	12"	PVC	45'	7.30%	BLDG 2 to 106	8"	PVC	50'	8.91%
112 to 111	24"	RCP	85'	0.35%	141 to 140A	36"	RCP	67'	0.30%	BLDG 3 to 101	8"	PVC	70'	6.76%
113 to 112	24"	RCP	108'	0.37%	142 to 141	36"	RCP	61'	0.33%	BLDG 4 to 115	8"	PVC	47'	9.60%
114 to 113	24"	RCP	134'	0.30%	143 to 142	24"	RCP	183'	0.27%	BLDG 5 to 131	8"	PVC	39'	11.92%
115 to 114	24"	RCP	74'	0.41%	144 to 143	24"	RCP	215'	0.33%	BLDG 6 to 131	8"	PVC	44'	10.46%
115A to 115	18"	RCP	62'	0.48%	145 to 142	30"	RCP	127'	0.32%	BLDG 7 to 122	8"	PVC	41'	10.36%
116 to 111	24"	RCP	90'	0.33%	146 to 145	24"	RCP	160'	0.31%	BLDG 8 to 112	8"	PVC	78'	5.50%
117 to 116	18"	RCP	73'	0.55%	147 to 146	18"	RCP	24'	0.42%	BLDG 9 to 115	8"	PVC	42'	10.60%
117A to 117	18"	RCP	75'	0.40%	148 to 146	18"	RCP	61'	0.66%	BLDG CH-E to 141	8"	PVC	79'	2.64%
118 to 116	24"	RCP	131'	0.31%	148B to 148	15"	PVC	30'	2.63%	BLDG CH-W to 148B	8"	PVC	7'	1.00%
119 to 118	18"	RCP	151'	0.33%	148D to 148C	12"	PVC	33'	1.53%	CS-200 to S-200	24"	RCP	153'	0.33%
121 to FES-120	18"	RCP	16'	17.33%	149 to 145	30"	RCP	157'	0.32%	S-200 to OUTFALL-200	24"	RCP	124'	0.32%
122 to 121	18"	RCP	44'	0.68%	150 to 149	24"	RCP	56'	0.36%					

**SANITARY PIPE TABLE**

NAME	SIZE	MATERIAL	LENGTH	SLOPE
BLDG 1 to SSMH-2	8"	PVC	35'	22.22%
BLDG 2 to SSMH-4	8"	PVC	35'	20.48%
BLDG 3 to SSMH-3	8"	PVC	51'	14.22%
BLDG 4 to SSMH-5	8"	PVC	65'	5.68%
BLDG 5 to SSMH-9	8"	PVC	33'	5.51%
BLDG 6 to SSMH-10	8"	PVC	35'	5.14%
BLDG 7 to SSMH-12	8"	PVC	49'	6.11%
BLDG 8 to SSMH-7	8"	PVC	60'	4.02%
BLDG 9 to SSMH-6	8"	PVC	55'	1.10%
CO-CH to SSMH-1	8"	PVC	85'	10.26%
SSMH-1 to LS	8"	PVC	87'	0.46%
SSMH-2 to SSMH-1	8"	PVC	115'	0.43%
SSMH-3 to SSMH-2	8"	PVC	106'	0.47%
SSMH-4 to SSMH-3	8"	PVC	93'	0.43%
SSMH-5 to SSMH-4	8"	PVC	121'	0.41%
SSMH-6 to SSMH-5	8"	PVC	291'	0.69%
SSMH-7 to SSMH-6	8"	PVC	181'	1.11%
SSMH-8 to SSMH-1	8"	PVC	74'	0.54%
SSMH-9 to SSMH-8	8"	PVC	364'	0.47%
SSMH-10 to SSMH-9	8"	PVC	201'	0.45%
SSMH-11 to SSMH-10	8"	PVC	120'	0.42%
SSMH-12 to SSMH-11	8"	PVC	243'	0.45%

**YARD DRAIN PIPE TABLE**

NAME	SIZE	MATERIAL	LENGTH	SLOPE	NAME	SIZE	MATERIAL	LENGTH	SLOPE	NAME	SIZE	MATERIAL	LENGTH	SLOPE
1 to S-140B	8"	PVC	17'	1.15%	13 to 10	6"	PVC	35'	1.00%					
2 to 1	6"	PVC	31'	1.00%	14 to 13	6"	PVC	32'	1.00%					
3 to 1	8"	PVC	13'	1.03%	15 to 14	6"	PVC	34'	1.00%					
4 to 3	6"	PVC	9'	1.45%	16 to 148	6"	PVC	32'	3.51%					
5 to 4	6"	PVC	31'	1.01%	17 to 148B	6"	PVC	22'	0.79%					
6 to S-141	6"	PVC	68'	0.26%	18 to 17	6"	PVC	19'	0.88%					
7 to 6	6"	PVC	29'	1.26%	19 to 18	6"	PVC	16'	0.99%					
8 to 6	6"	PVC	18'	0.69%	20 to 19	6"	PVC	11'	1.16%					
9 to 8	6"	PVC	11'	0.77%	21 to 17	6"	PVC	21'	0.95%					
10 to S-145	8"	PVC	25'	3.32%	22 to 21	6"	PVC	15'	1.37%					
11 to 10	6"	PVC	22'	3.32%	23 to 148C	6"	PVC	13'	2.48%					
12 to 11	6"	PVC	32'	1.00%	24 to 148C	6"	PVC	18'	1.00%					

**DRAINAGE DETAILS**

AVENTON LITTLE MULTIFAMILY  
PASCO COUNTY, FLORIDA

DRAWING WALID UNLESS SPECIFICALLY NOTED & SEALED BY REGISTERED PROFESSIONAL

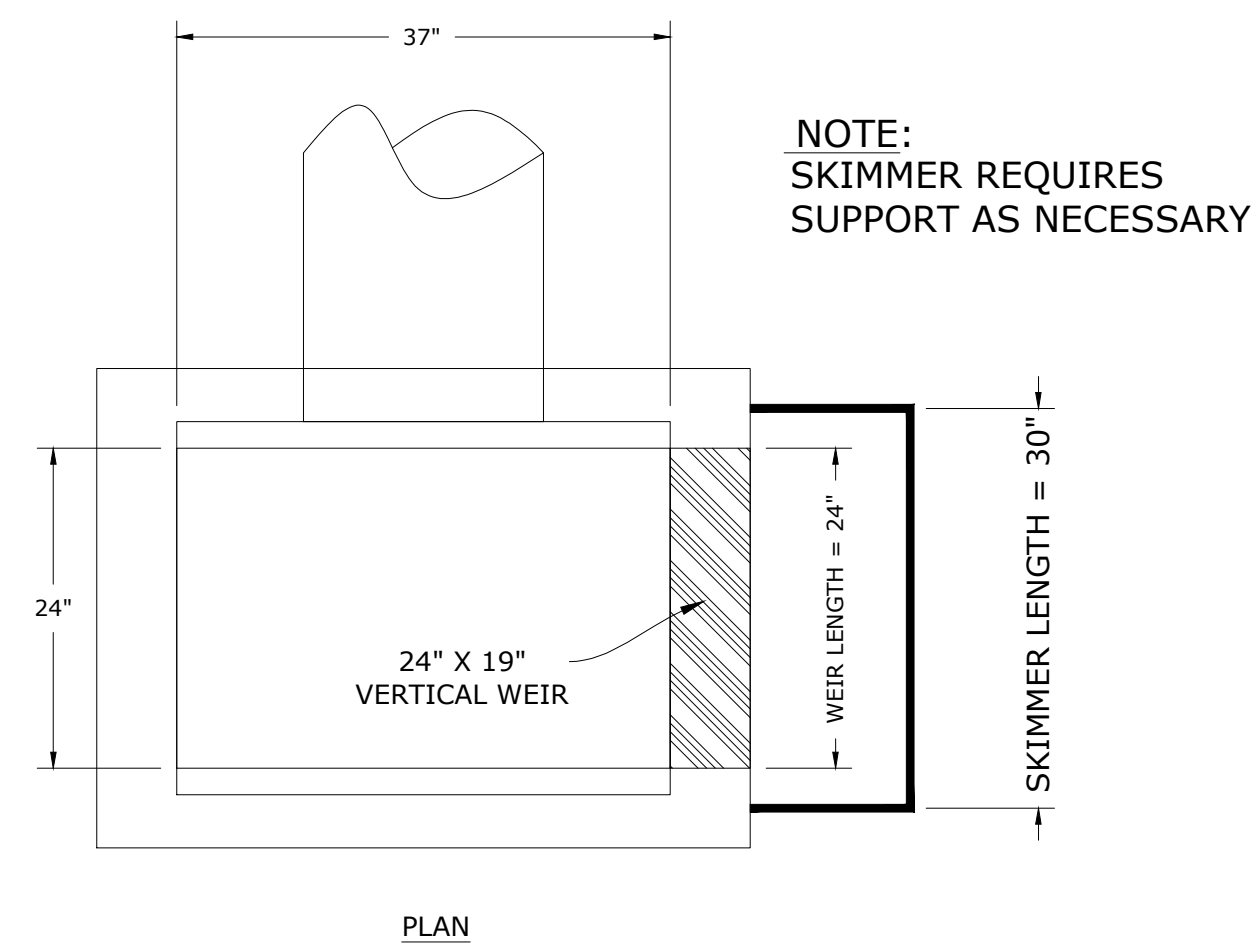
**REGENCY**  
Design & Engineering, Inc.  
9400 RIVER CROSSING BOULEVARD, SUITE 102 NEW PORT RICHEY, FLORIDA 34655  
727-375-1155 EXT. 202 - FAX 727-375-1156  
CERTIFICATE OF AUTHORIZATION NO. ZB366

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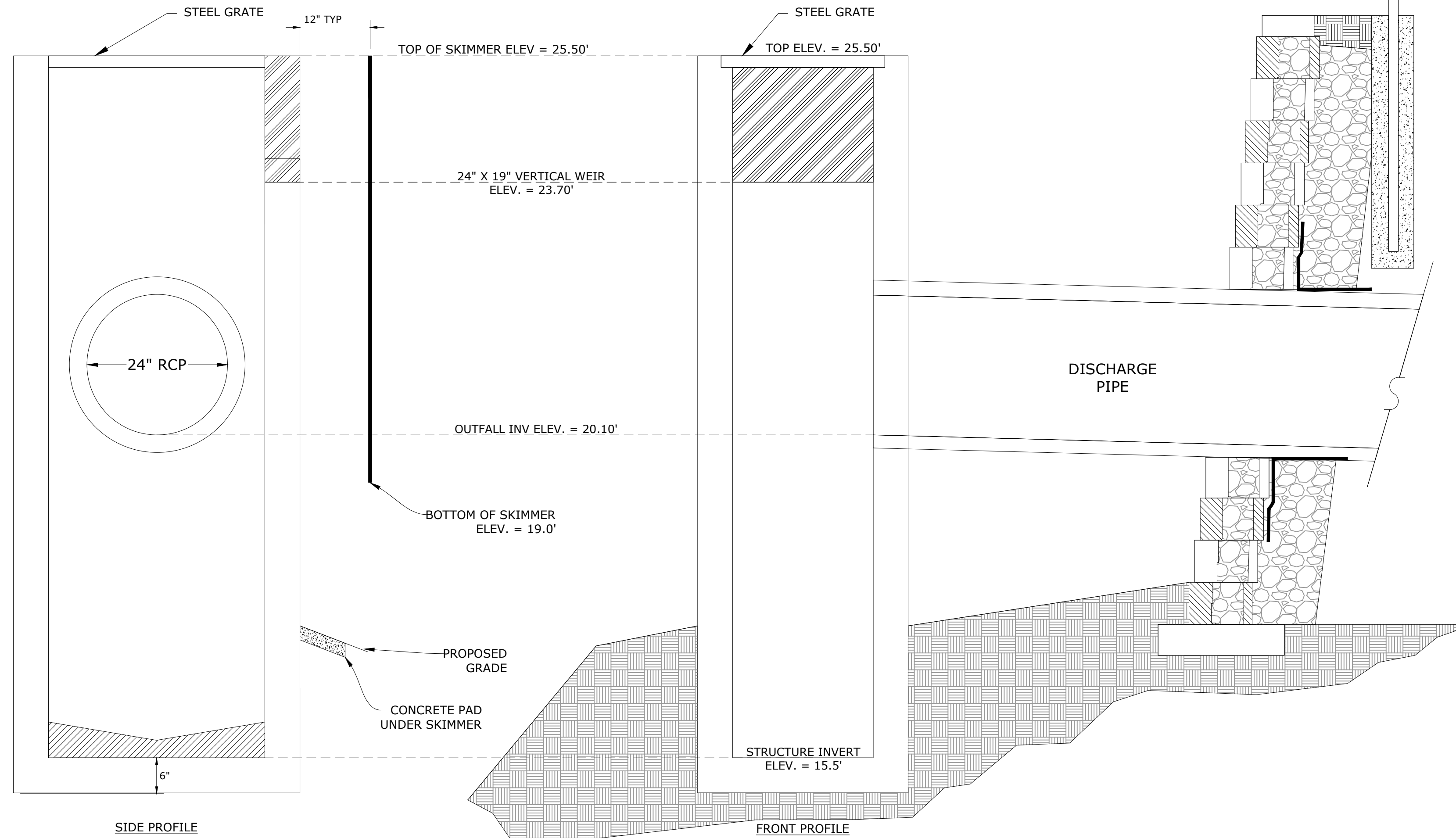
DATE	REV. BY	REV. NO.	REVISION

SHEET  
**16A**

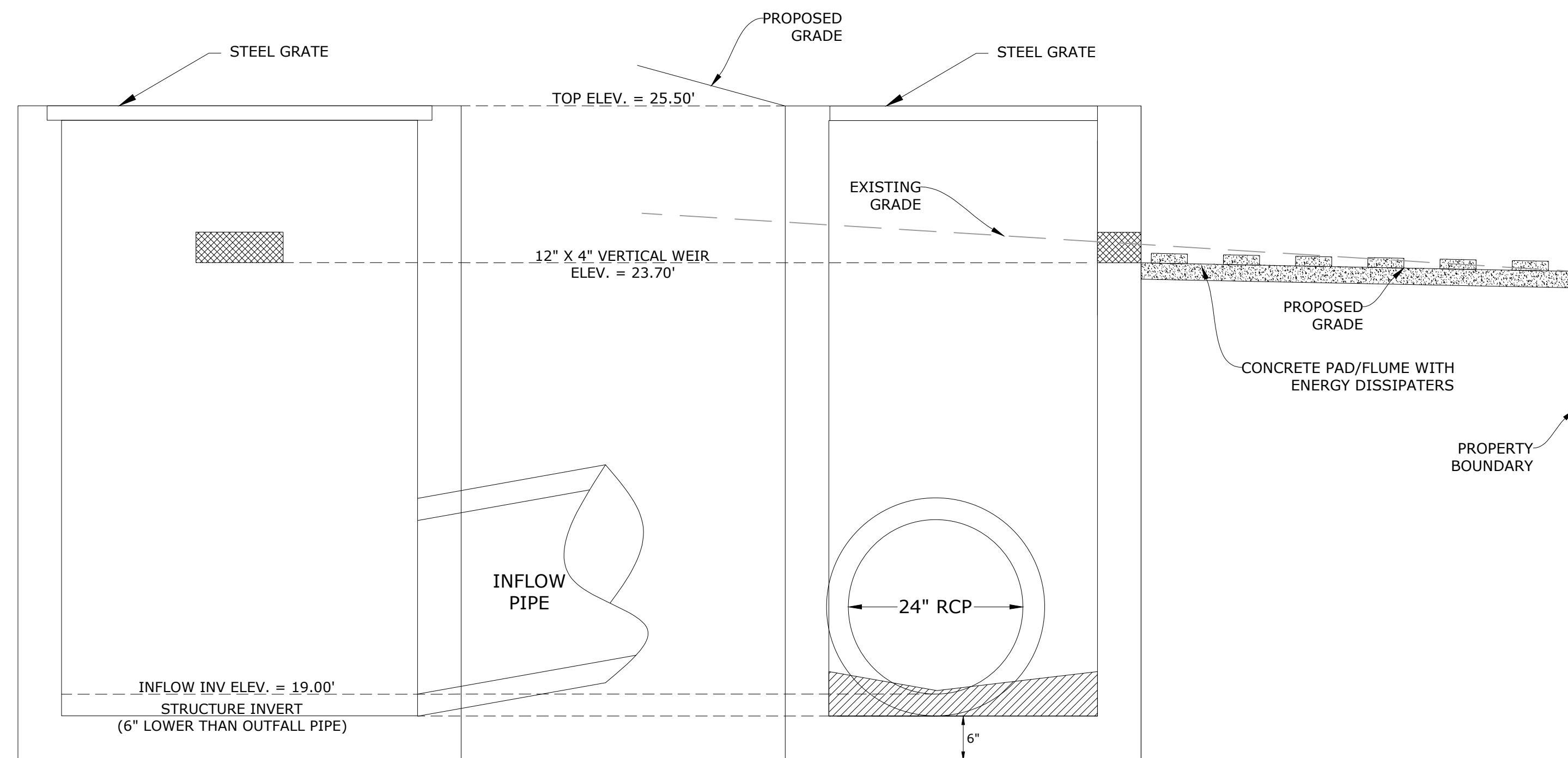
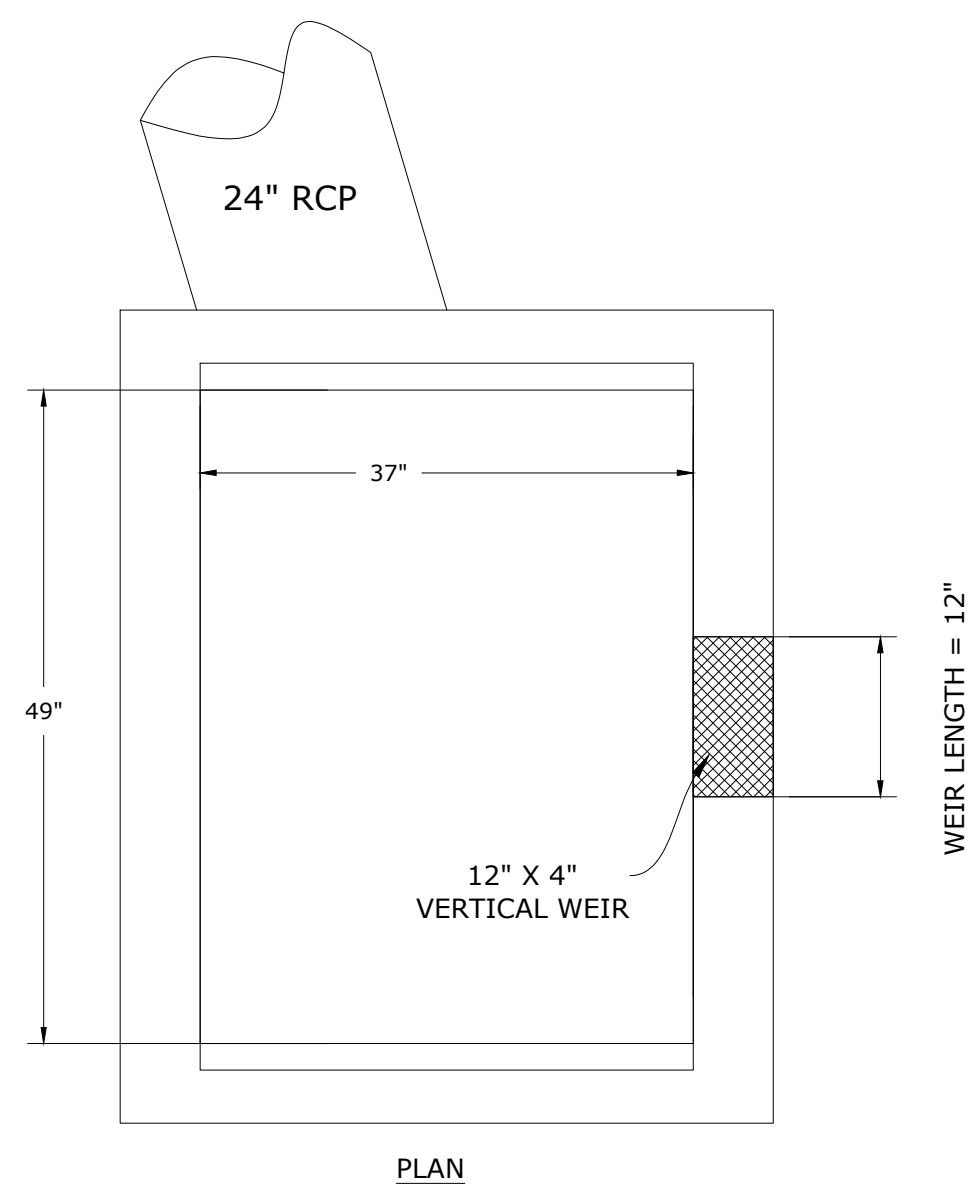
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NOTE:  
SKIMMER REQUIRES  
SUPPORT AS NECESSARY



SIDE PROFILE  
**CS-200**  
TYPE C INLET PER  
FDOT INDEX #425-052



FRONT PROFILE  
**OUTFALL-200**  
TYPE D INLET PER  
FDOT INDEX #425-052

**CONTROL STRUCTURE DETAILS**  
AVENTON LITTLE MULTIFAMILY  
PASCO COUNTY, FLORIDA

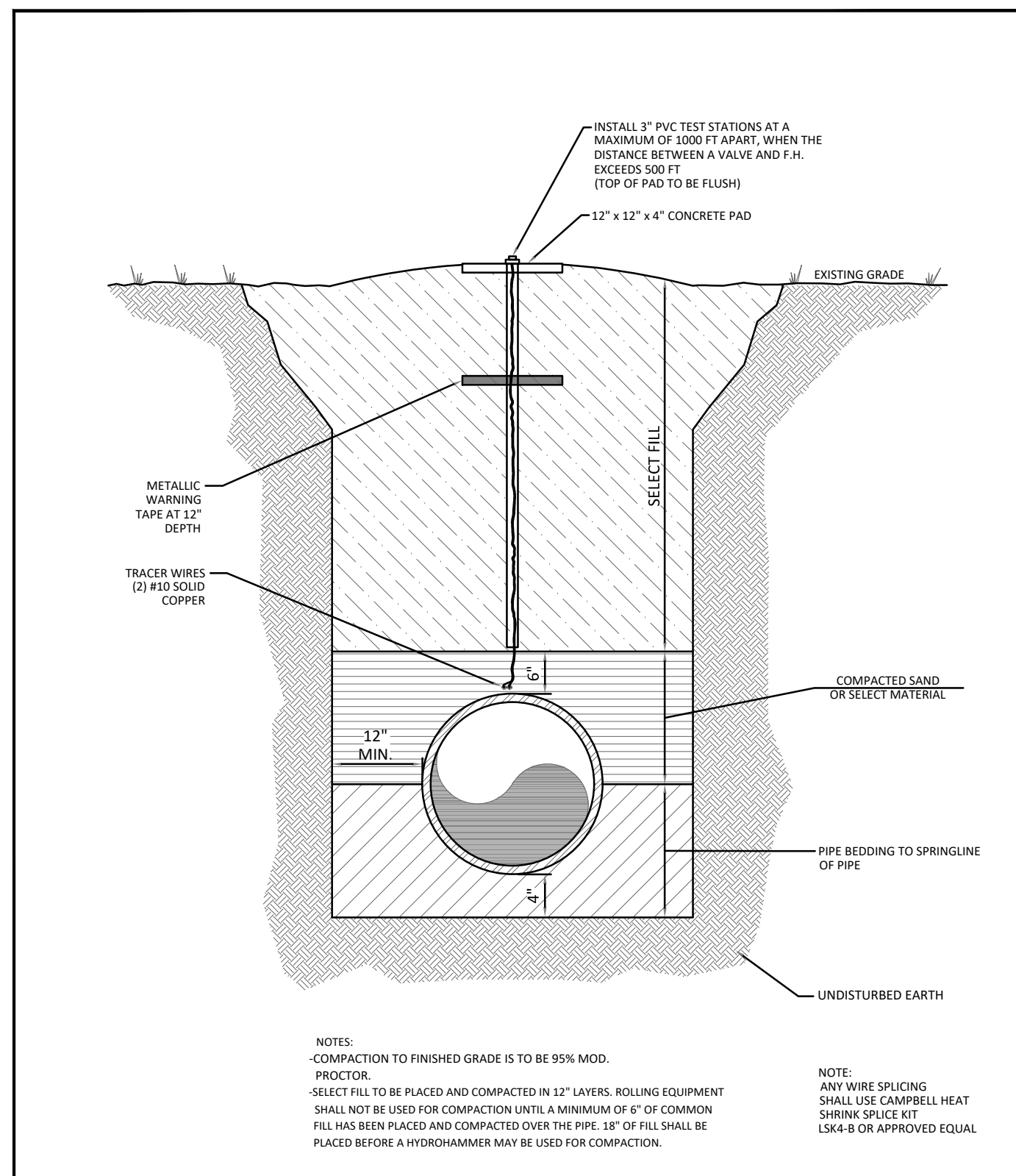
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JAMES P. GRANDI, P.E., # 93312

**REGENCY**  
Design & Engineering, Inc.  
9400 RIVER CROSSING BOULEVARD, SUITE 102 NEW PORT RICHEY, FLORIDA 34655  
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DATE	REV. BY	REV. NO.	REVISION

PLOT DATE TIME: Monday, February 09, 2026 @ 11:07 AM  
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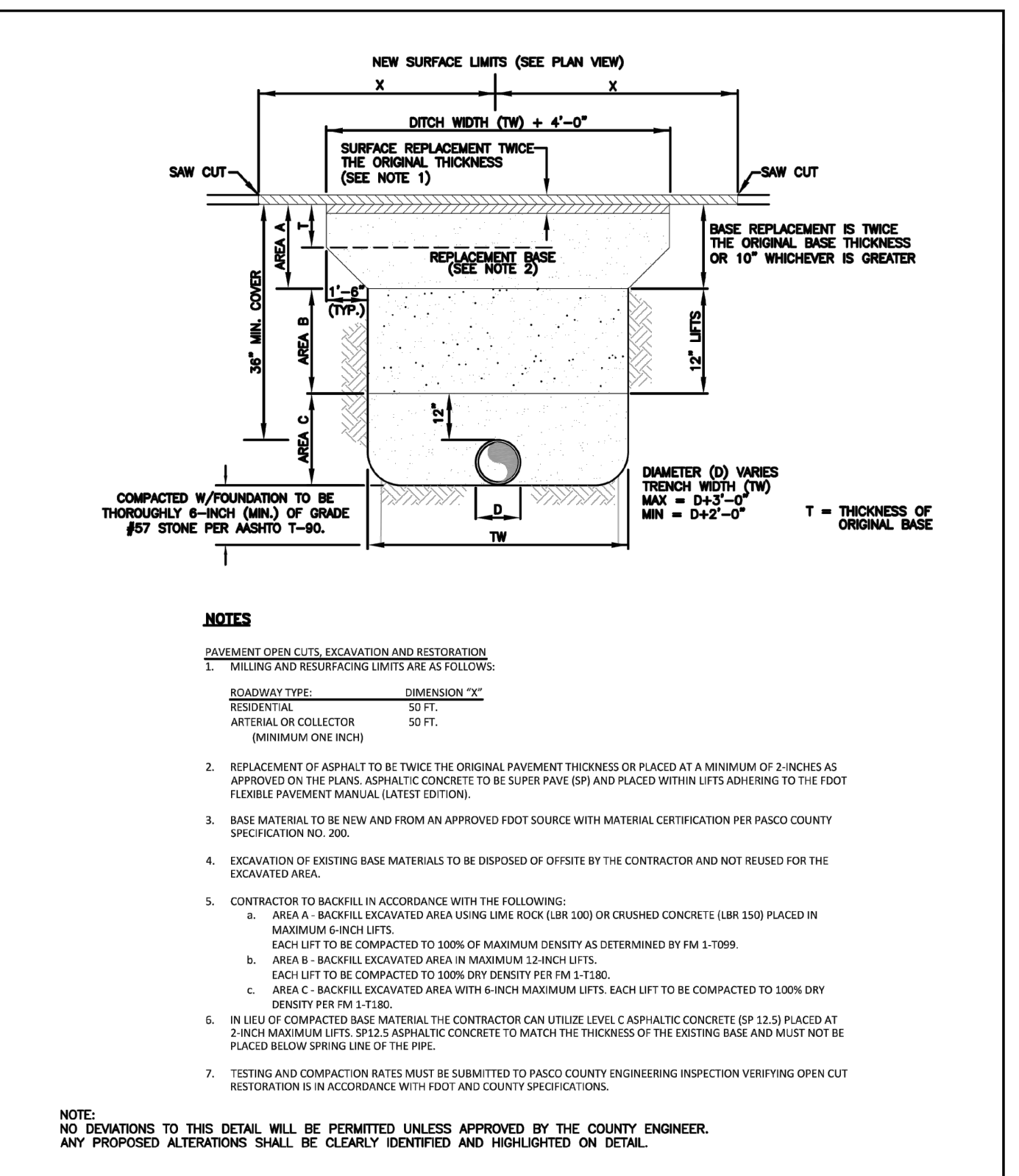
CREATED JUNE 2017  
 REVISED MAY 2021

PIPE LAYING CONDITIONS  
 UNPAVED AREAS

PASCO COUNTY UTILITIES

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

DETAIL G2



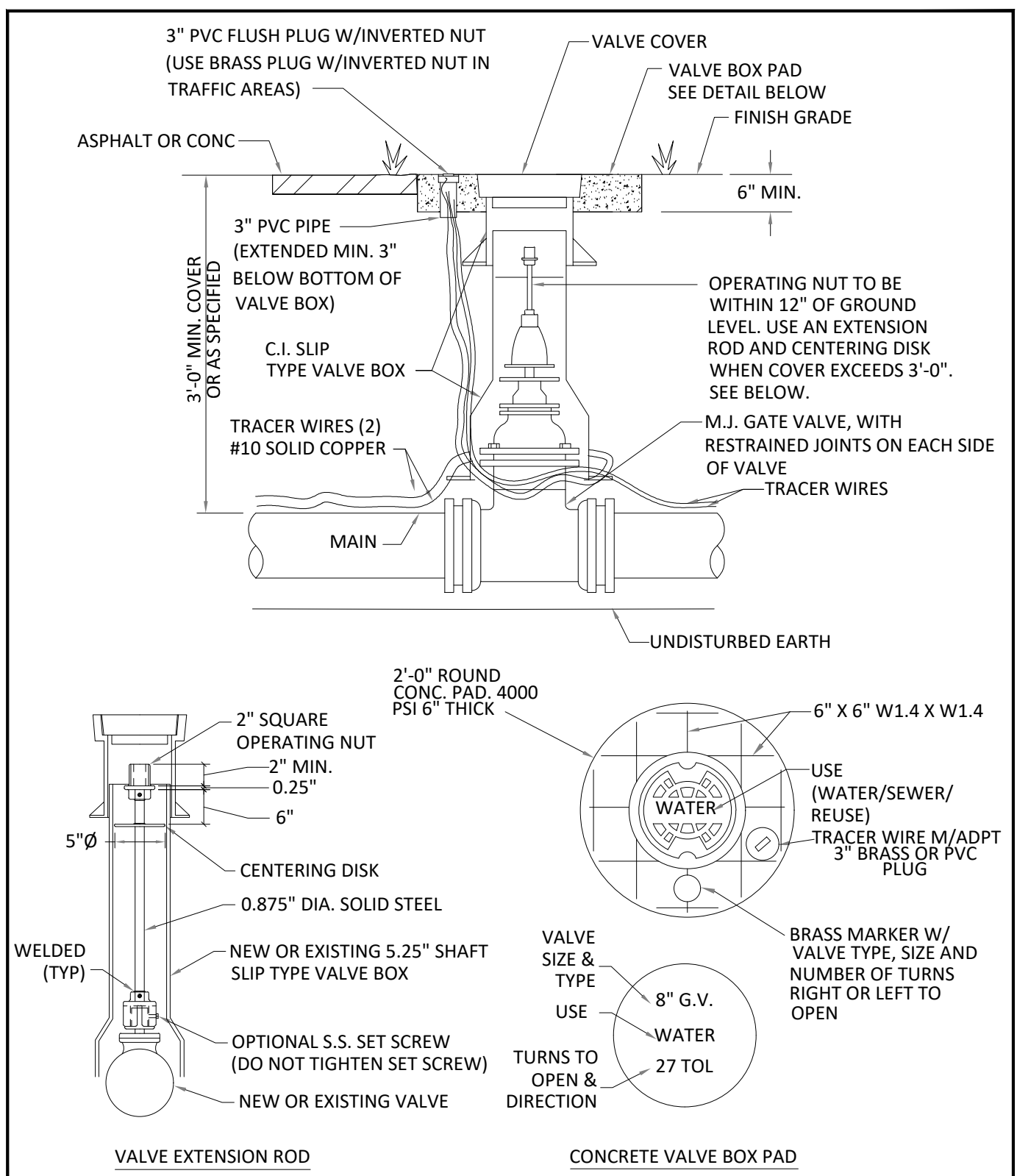
CREATED APR 2021  
 REVISED MAY 2021

PIPE LAYING CONDITIONS  
 EXISTING PAVED AREAS

PASCO COUNTY UTILITIES

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DETAIL G3



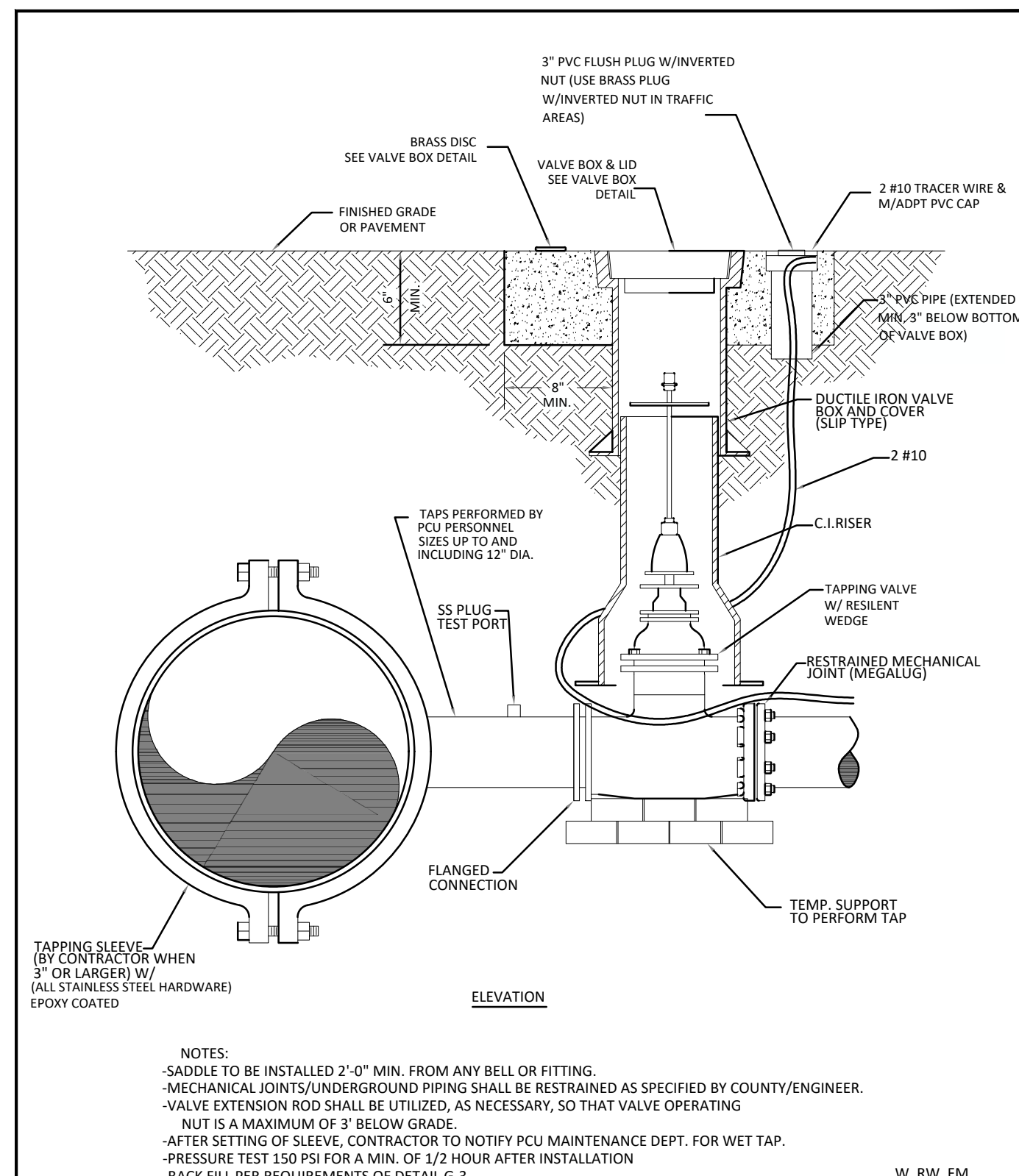
CREATED DEC 2020  
 REVISED MAY 2021

VALVE BOX SLIP TYPE

PASCO COUNTY UTILITIES

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DETAIL G5



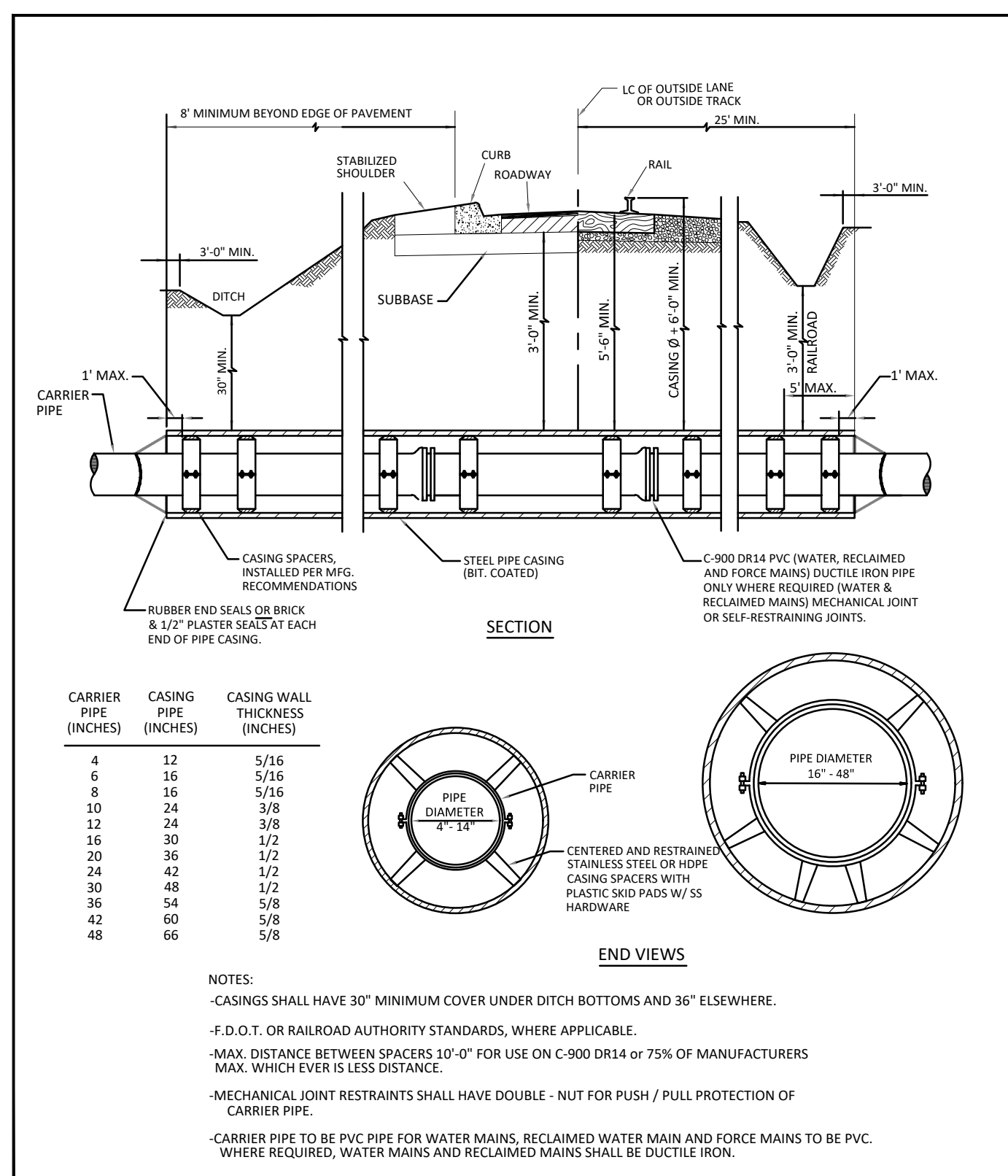
CREATED AUG 2019  
 REVISED MAY 2021

TAPPING VALVE AND SLEEVE

PASCO COUNTY UTILITIES

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DETAIL G6



CREATED DEC 2020  
 REVISED MAY 2021

JACK & BORE  
 DETAIL

PASCO COUNTY UTILITIES

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DETAIL G7

SEE NOTES DETAIL G-11

	4"	6"	8"	12"	16"	18"	20"	24"	30"	36"	48"
L	31(4)										
A	55(79)	32(46)									
R	12(134)	78(113)	57(82)								
C	18(160)	101(140)	58(64)								
E	18(172)	125(171)	83(118)	31(44)							
20"				104(149)	58(83)	31(44)	58(83)				
24"				143(204)	108(151)	83(119)	58(83)				
N	30"			183(232)	145(207)	128(180)	81(115)				
D	36"			246(301)	198(277)	172(243)	101(144)				
48"				341(449)	271(365)	241(328)	144(198)				

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

TEE	4"	6"	8"	12"	16"	18"	20"	24"	30"	36"	48"
4"	21(29)										
6"	18(15)	38(44)									
8"	0(0)	30(43)	35(78)								
12"	0(0)	18(21)	43(63)	86(123)							
16"	0(0)	30(43)	78(111)	118(185)							
18"	0(0)	24(34)	73(104)	112(161)	139(196)						
20"	0(0)	18(23)	48(68)	109(159)	127(181)	143(205)					
24"	0(0)	1(2)	58(83)	102(145)	120(172)	128(187)	170(243)				
30"	0(0)	0(0)	42(61)	80(128)	110(157)	129(184)	163(233)	207(296)			
36"	0(0)	0(0)	28(39)	77(119)	99(141)	118(169)	155(221)	201(277)	241(344)		
48"	0(0)	0(0)	10(0)	48(68)	73(104)	86(138)	136(194)	186(268)	229(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"
C-PPED ENDS											
90° BENDS	42(60)	58(80)	77(110)	108(150)	136(188)	153(218)	186(238)	194(277)	231(330)	285(379)	325(465)
45° BENDS	19(26)	26(33)	37(43)	51(60)	69(76)	78(83)	78(86)	89(104)	104(122)	120(138)	144(167)
22 1/2° BENDS	8(12)	12(17)	15(21)	22(31)	28(39)	30(43)	33(47)	38(55)	46(68)	53(75)	65(92)
11 1/4° BENDS	4(6)	6(9)	8(11)	11(15)	14(19)	15(21)	16(23)	18(27)	23(32)	26(37)	32(46)

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"
C-PPED ENDS	42(60)	58(80)	77(110)	108(150)	136(188)	153(218)	186(238)	194(277)	231(330)	285(379)	325(465)
90° BENDS	20(24)	29(33)	37(43)	51(60)	69(76)	78(83)	78(86)	89(104)	104(122)	120(138)	144(167)
45° BENDS	8(10)	12(14)	15(18)	22(26)	27(33)	30(35)	32(37)	37(43)	44(52)	52(67)	65(80)
22 1/2° BENDS	4(6)	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)

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

PASCO COUNTY UTILITIES

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

DETAIL G10

RESTRAINED JOINT NOTES

- 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.
- SELECTED COMMON FILL FROM ORIGINAL EXCAVATION, SEE SPECIFICATIONS.
- USE OF ALTERNATIVE TYPES OF PIPE BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENGINEER.
- FOR COMBINED BENDS FORMING OFFSETS, THE LENGTHS QUOTED SHALL BE DOUBLED AND PROVIDED EACH SIDE OF THE CENTROID OF THE OFFSET.
- VALVES LOCATED NEAR BENDS OR TEES SHALL TAKE ACCOUNT OF ADDITIONAL PASSIVE SOIL RESISTANCE.
- WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION, DEWATER AS NECESSARY.
- EXISTING CONCRETE / ASPHALT SURFACES AND BASE SHALL BE CUT SQUARE WITH CONCRETE SAW.
- 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.
- IF THE PIPE IS DEFLECTED, THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE 75% OF THE MANUFACTURERS RECOMMENDED DEFLECTION, FOR THE JOINT TYPE USED.
- RESTR-INED JOINTS IN C-RRIER PIPES (J-CK -ND BORE) SH-LL NOT BE INCLUDED IN RESTR-INED LENGTHS.

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

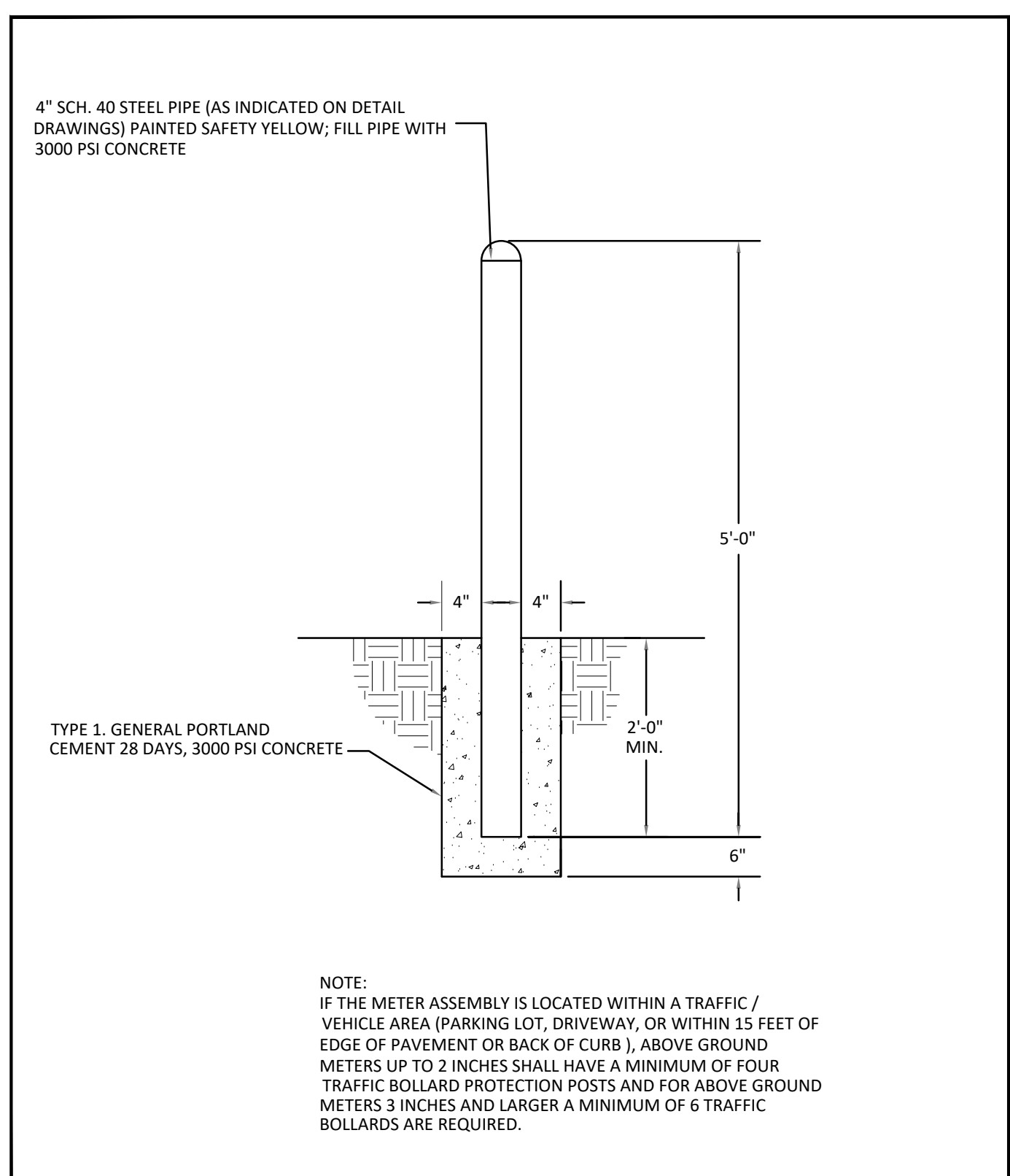
CREATED JULY 2015  
 REVISED NOV 2015  
MAY 2016  
JUNE 2017

RESTRAINED JOINT NOTES

PASCO COUNTY UTILITIES

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DETAIL G11



CREATED FEB 2021  
 REVISED MAY 2021

BOLLARD POST DETAIL

PASCO COUNTY UTILITIES

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DETAIL G18

LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH RULE 2-555.314, F.A.C.

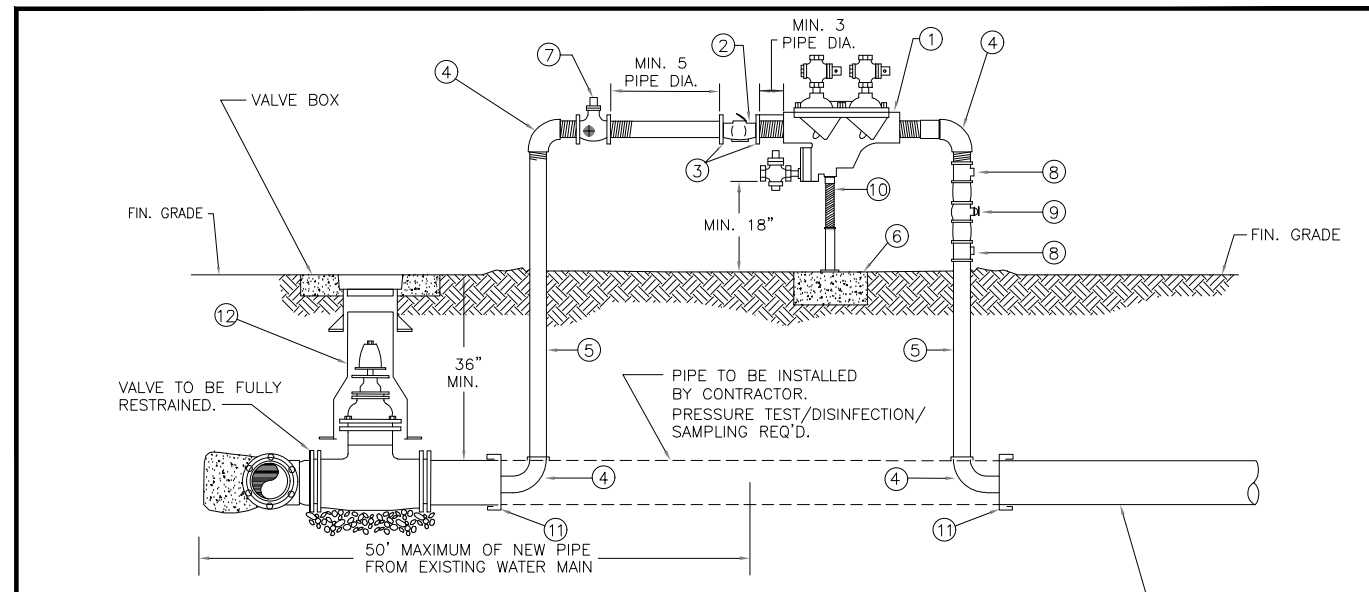
The following table summarizes the required separation distances from public water mains to other pipes as provided in rule 62-62-555.314, F.A.C.

Separation Requirements for Public Water System Mains:

Other Pipe	Horizontal Separation (X)	Crossings Vertical Separation (Y)	Joint Spacing (Z) @ Crossings (Full Joint Centered)
<ul style="list-style-type: none"> <li>Storm Sewers</li> <li>Stormwater Force Mains</li> <li>Reclaimed Water Pipelines regulated under Part III of Chapter 62-610, F.A.C.</li> </ul>	3ft. minimum	For water main installed above other pipe (preferred), 12 inches is the minimum except for storm sewer, then 6 inches is the minimum and 12 inches is preferred and 12 inches minimum if water main is below other pipe	Alternate 3 ft. minimum
<ul style="list-style-type: none"> <li>Vacuum Sanitary Sewer</li> </ul>	10 ft. preferred 3 ft. minimum	For water main installed above other pipe, 12 inches preferred and 6 inches minimum  12 inches minimum if water main is below other pipe	Alternate 3 ft. minimum
<ul style="list-style-type: none"> <li>Gravity or Pressure Sanitary Sewer</li> <li>Sanitary sewer Force Main</li> <li>Reclaimed Water Pipelines not regulated under Part III of Chapter 62-610, F.A.C.</li> </ul>	10 ft. preferred 6 ft. minimum (note - 3 ft. minimum for gravity sanitary sewer where the bottom of the water main is laid at least 6 inches above the top of the gravity sanitary sewer)	For water main installed above other pipe (preferred), 12 inches is the minimum except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred and 12 inches minimum if water main is below other pipe	Alternate 6 ft. minimum
<ul style="list-style-type: none"> <li>On-Site Sewage Treatment &amp; Disposal System</li> </ul>	10 ft. minimum	NA	NA

Disclaimer - This document is provided for your convenience only. Please refer to Rule 62-555.314, F.A.C., for exceptions and additional construction requirements.

CREATED <u>JUNE 2017</u>	LOCATION OF PUBLIC WATER SYSTEM MAINS IN A ACCORDANCE TO 66-555.314.F.A.C.	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
REVISED <u>MAY 2021</u>		
	PASCO COUNTY UTILITIES	DETAIL G19

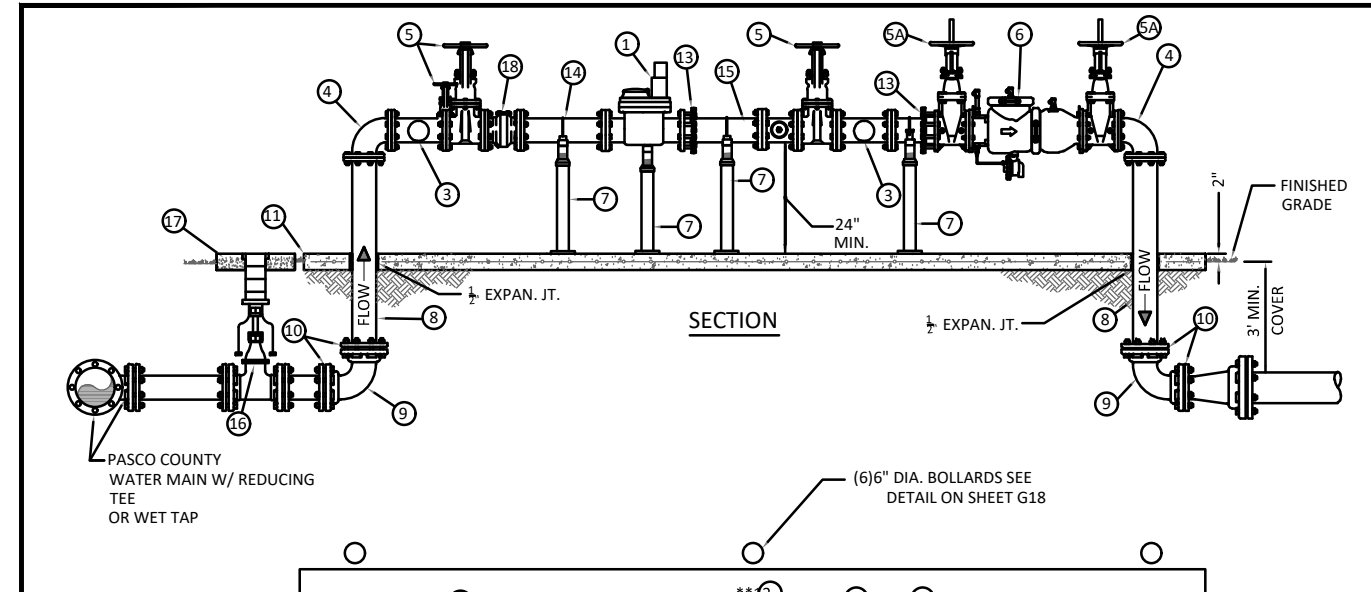


ITEM	QUANT.	DESCRIPTION
1	1	2" BACKFLOW PREVENTER ASSEMBLY, REDUCED PRESSURE ZONE
2	1	2" METER FURNISHED BY PASCO COUNTY UTILITIES
3	2	BRASS-METER FLANGES OR ADAPTERS
4	2	2" ELBOWS - BRASS OR S.S. 90° THREADED *
5	2	2" RISER - BRASS OR S.S. *
6	*	CONCRETE SLAB
7	1	2" VALVE - LOCK-WING OVAL FLANGED BALL 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 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 <u>FEB 2003</u>	TEMPORARY CONSTRUCTION WATER SERVICE (JUMPER METER)	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
REVISED <u>JAN 2014</u>		
REVISED <u>MAY 2016</u>		
REVISED <u>JUNE 2019</u>		
	PASCO COUNTY UTILITIES	DETAIL W1



ITEM	QUANT.	DESCRIPTION
1	1	WATER METER 3" THRU 12" w/AMR (BADGER) ORION READING SYSTEM [SEE NOTES ON PCU DETAIL W2A]
2	1	TEE FLG X FLG X FLG W/ BIND PLATE TAPPED WITH 2" BALL VALVE MIP X HIP
3	2	TEE, FLG X FLG X FLG (STD)
4	4	BEND 90° FLG X FLG (STD)
5	3	VALVE, GATE FLG X FLG RESILIENT SEAT FIB
6	2	VALVE, GATE FLG X FLG RESILIENT SEAT O.S. & Y
7	3	ADJ. PIPE SUPPORTS - ANVIL FIG. 265 W/ 63T STANCHION & BASE PLATE
8	2	SPOOL PIECE FLG X PE D.I.P.
9	2	BEND 90° M.J. X M.J.
10	4	RESTRAINED JOINT M.J. (MEGALUG OR EQUAL)
11	1	CONCRETE SLAB 4" THICK W/ 6"x8" 10/10 W.F. OR FIBERMESH REINFORCING
**12	1	BY PASS PIPE D.I.P. FLG X PE
13	2	FLANGE ADAPTER (EBA SERIES 2100 MEGAFANGE, DRESSER 328, O/I)
14	1	SPOOL PIECE FLG X FLG - LENGTH TO BE 2 PIPE DIAMETERS W/ STRAINER
15	1	SPOOL PIECE FLG X PE - LENGTH TO BE 3 PIPE DIAMETERS
16	1	BELOW GRADE ISOLATION GATE VALV W/ VAULT BOX, SLIP TYPE
17	1	VALVE BOX, SLIP TYPE AS PER PCU STANDARD DETAIL G-5
18	1	EQUAL-FLANGE PLATE STRAINER

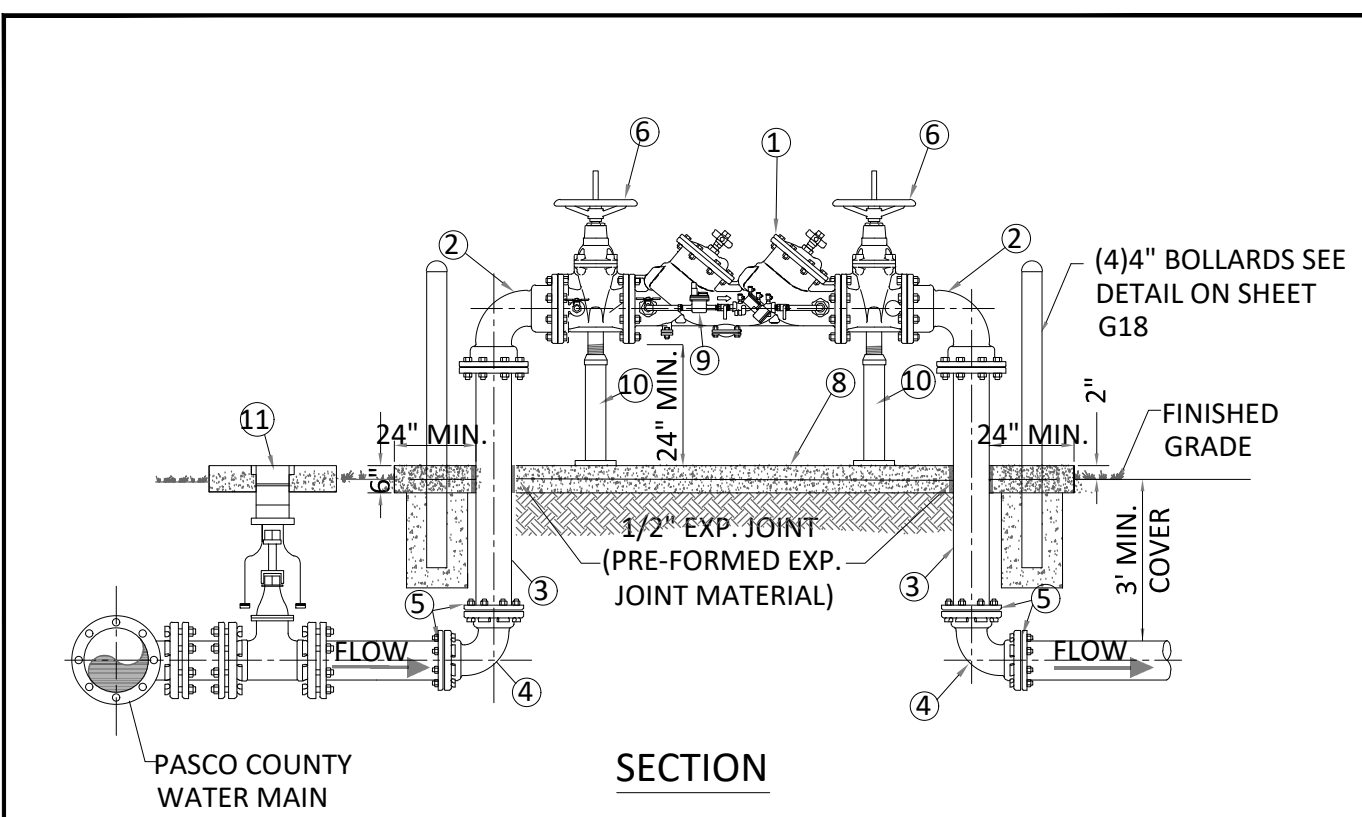
NOTE 1: IF IT IS DESIRED TO DOWNSIZE METER, CONICAL REDUCERS SHALL BE PLACED AFTER THE 90 DEGREE VERTICAL BEND BEFORE UPSTREAM BYPASS AND AFTER DOWNSTREAM BYPASS TEE / BEFORE BACKFLOW PREVENTION ASSEMBLY AS SHOWN; NO OTHER LOCATIONS SHALL BE ACCEPTED.

CREATED <u>FEB 2021</u>	LARGE METER 3" AND ABOVE WITH SINGLE BACKFLOW PREVENTER	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
REVISED <u>MAY 2021</u>		
	PASCO COUNTY UTILITIES	DETAIL W2

NOTES CONTINUED FROM W-2

- IF IT IS DESIRED TO DOWNSIZE METER, CONICAL REDUCERS SHALL BE PLACED AFTER THE 90 DEGREE VERTICAL BEND BEFORE UPSTREAM BYPASS AND AFTER DOWNSTREAM BYPASS TEE / BEFORE BACKFLOW PREVENTION ASSEMBLY AS SHOWN; NO OTHER LOCATIONS SHALL BE ACCEPTED.
- METER & BFP ASSEMBLY TO BE INSTALLED LEVEL & PLUMB.
- METER BY-PASS TO BE SIZED NO LESS THAN 1/2 METER SIZE, 3" MIN.
- ENTIRE ASSEMBLY TO BE PAINTED SAFETY BLUE.
- ENTIRE TO BE SIZED EQUAL TO OR GREATER THAN METER SIZE.
- MECHANICAL JOINTS SHALL BE RESTRAINED AS SPECIFIED BY COUNTY/ENGINEER.
- BELL JOINT RESTRAINTERS SHALL BE PROVIDED ON ALL UNDERGROUND PIPING.
- ALL ABOVE GROUND PIPING SHALL BE FLANGED DUCTILE IRON PIPE CEMENT LINED (NO GALVANIZED OR PVC)
- PASCO COUNTY MAY REQUIRE THE ENTIRE ASSEMBLY TO BE ENCLOSED IN 6' BLACK VINYL CHAIN LINK FENCE.
- BFP MUST BE LISTED WITH THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH (USC APPROVED).
- ABOVE GROUND INLET AND DISCHARGE PIPING SHALL BE SIZED IDENTICAL TO METER INLET SIZE.
- ALL METERING EQUIPMENT SHALL BE FULLY COMPATIBLE WITH THE CURRENT PCU AUTOMATIC METER READING (AMR) SYSTEM.
- IF METER IS PROVIDING FIRE PROTECTION AS WELL AS DOMESTIC WATER USE BY PASS MUST BE A MIN. 6" DIA D.I. PIPE FLG X PE.
- IF METER IS FOR DOMESTIC USE ONLY (I.E. THERE IS A SEPARATE STAND-ALONE FIRE CONNECTION) A BADGER E-SERIES ULTRASONIC METER WITH NICOR LEADS AND ORION AMR METER TRANSMITTER OR APPROVED EQUAL.
- IF METER IS FOR BOTH DOMESTIC AND FIRE PROTECTION USE, A FIRE SERVICE METER WITH LOW-FLOW TURBINE BYPASS METER SHALL BE USED.
- NO THE RODS OR EYE BOLT RETAINERS PERMITTED ABOVE GROUND.
- OTHER ASSEMBLIES ARE PROPOSED TO BE PLACED PARALLEL TO METER FOR BACKFLOW ASSEMBLY (I.E. FIRE SERVICES, IRRIGATION METERS, ETC.) THERE SHALL BE A MINIMUM OF 36IN OF SEPARATION BETWEEN ASSEMBLIES AS MEASURED FROM OUTSIDE TO OUTSIDE.
- CONTRACTOR SHALL TEST AND CERTIFY BACKFLOW PREVENTION DEVICE.
- FOR METERS UP TO 6 INCHES, USE BADGER PLATE STRAINER MODEL STR-PS-0008 OR EQUAL; FOR METERS GREATER THAN 6 INCHES, USE BADGER PLATE STRAINER M-4S, MODEL NUMBER STR-PS-0005.

CREATED <u>FEB 2021</u>	LARGE METER 3" AND ABOVE WITH SINGLE BACKFLOW PREVENTER NOTES CONTINUED	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
REVISED <u>MAY 2021</u>		
	PASCO COUNTY UTILITIES	DETAIL W2A

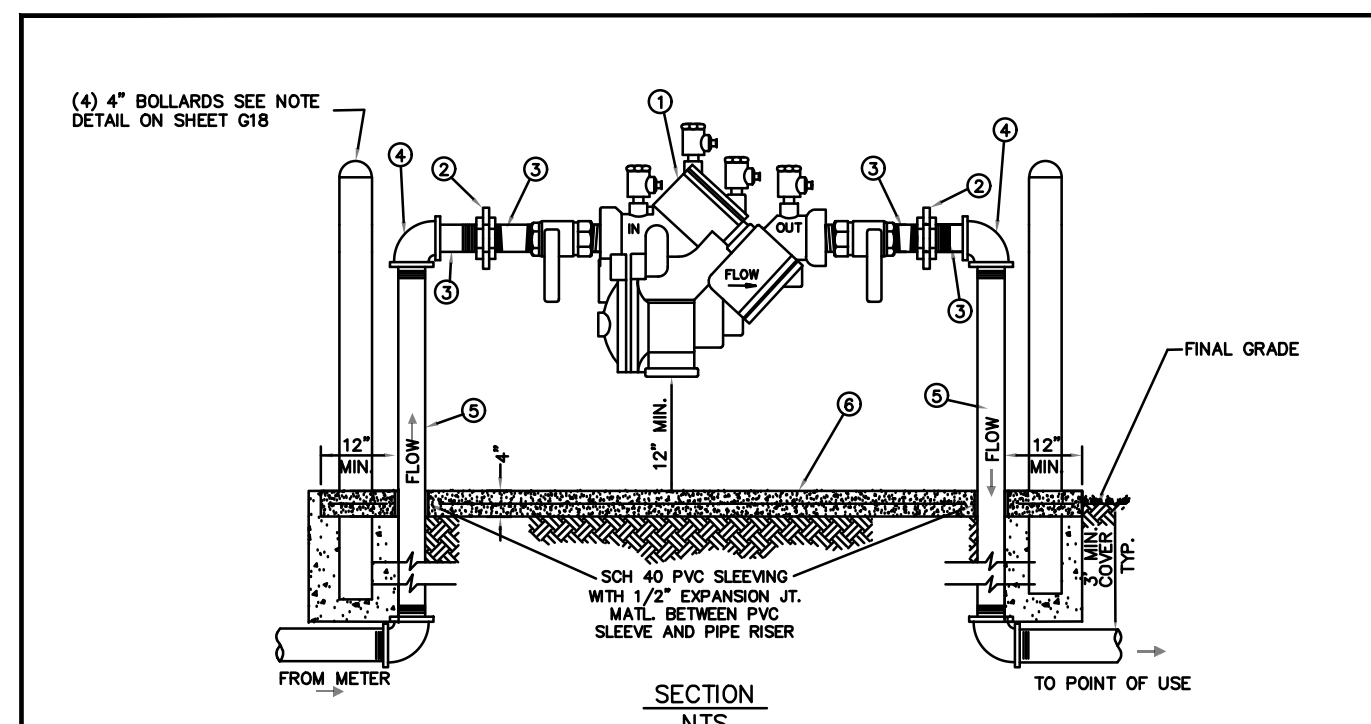


ITEM	QUANT.	DESCRIPTION
1	1	DOUBLE CHECK WITH DETECTOR ASSEMBLY
2	2	BEND, 90° FLANGE x FLANGE
3	2	SPOOL PIECE FLG. x PE. D.I.P.
4	2	BEND, 90° M.J. x M.J.
5	4	RESTRAINED JOINT M.J. (MEGALUG OR EQUAL)
6	2	VALVE, GATE FLG. x FLG. RESILIENT WEDGE O.S. & Y.
7	2	SUPPORT (AS NEEDED)
8	1	CONCRETE SLAB (6" THICK - 42" WIDE MIN.)
9	1	AMR (BADGER) ORION READING SYSTEM
10	2	ADJ. PIPE SUPPORTS - ANVIL FIG. 265 W/ 63T STANCHION & BASE PLATE
11	1	ISOLATION VALVE AND VALVE BOX, SLIP TYPE AS PER PCU STANDARD DETAIL G-5 LOCATED AT BRANCH NEAREST TO COUNTY WATER MAIN.

CREATED <u>FEB 2003</u>	DOUBLE CHECK WITH DETECTOR ASSEMBLY FOR FIRE SERVICE LINES (3", 4", 6", 8", 12")	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
REVISED <u>MAY 2021</u>		
	PASCO COUNTY UTILITIES	DETAIL W7

- NOTES:
- NO THE RODS OR EYE BOLT RETAINERS PERMITTED ABOVE GROUND.
  - B.F.P. ASSEMBLY TO BE INSTALLED LEVEL & PLUMB.
  - MINIMUM CLEARANCE OF 36" TO BE MAINTAINED AROUND ENTIRE DEVICE FOR TESTING
  - ENTIRE ASSEMBLY TO BE PAINTED SAFETY RED.
  - DETECTOR BY-PASS ASSEMBLY TO BE FACTORY INSTALLED AND CERTIFIED
  - ALL MECHANICAL JOINTS SHALL BE RESTRAINED WITH MEGALUGS OR APPROVED EQUAL
  - ALL ABOVE GROUND PIPING SHALL BE FLANGED DUCTILE IRON PIPE CEMENT LINED (NO GALVANIZED OR PVC)
  - PASCO COUNTY SHALL HAVE THE OPTION OF REQUIRING THE ENTIRE ASSEMBLY TO BE ENCLOSED IN 6' CHAIN LINK FENCE.
  - BFP DEVICE MUST BE LISTED WITH THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH.
  - ALL METERING EQUIPMENT SHALL BE FULLY COMPATIBLE WITH PCU CURRENTLY EXISTING AUTOMATIC METER READING SYSTEM (AMR) ON WATER, REUSE AND SEWER METERS, AS APPLICABLE
  - CONTRACTOR SHALL TEST AND CERTIFY BACKFLOW PREVENTION DEVICE.
  - IF OTHER ASSEMBLIES ARE PROPOSED TO BE PLACED PARALLEL TO THIS BACKFLOW ASSEMBLY (I.E.METER ASSEMBLIES) THERE SHALL BE A MIN. OF 36" OF SEPARATION BETWEEN ASSEMBLIES, AS MEASURED FROM OUTSIDE TO OUTSIDE.

CREATED <u>FEB 2003</u>	DOUBLE CHECK WITH DETECTOR ASSEMBLY FOR FIRE SERVICE LINES (3", 4", 6", 8", 12") NOTES	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
REVISED <u>MAY 2021</u>		
	PASCO COUNTY UTILITIES	DETAIL W7A



ITEM	QUANT.	DESCRIPTION
1	1	BACKFLOW PREVENTER ASSEMBLY, REDUCED PRESSURE ZONE (RPZ) W/ 2 BALL VALVES-BRASS
2	2	UNIONS-BRASS OR S.S.
3	4	NIPPLES-BRASS OR S.S.
4	2	ELBOWS - 90°-BRASS OR S.S.
5	2	RISER -BRASS OR S.S.
6	*	CONCRETE SLAB 4" THICK W/ 6"x8" 10/10 W.F. OR FIBERMESH REINFORCING

- NOTES:
- MINIMUM CLEARANCE OF 12" TO BE MAINTAINED AROUND DEVICE FOR TESTING
  - ENTIRE ASSEMBLY SHALL BE INSTALLED LEVEL AND PLUMB THEN TO BE PAINTED SAFETY BLUE.
  - CONCRETE SLAB TO EXTEND 12" MIN. AROUND ENTIRE BFP ASSEMBLY.
  - DEVICE MUST BE LISTED WITH THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH.
  - ALL MATERIALS SHALL BE N.S.F. APPROVED.
  - CONTRACTOR SHALL TEST AND CERTIFY BACKFLOW PREVENTION DEVICE.
  - IF STAINLESS STEEL IS USED, CONTRACTOR IS RESPONSIBLE TO PROVIDE TRANSITION FITTINGS AND/OR DIELECTRIC COUPLINGS AS APPROPRIATE WHERE CHANGING FROM BRASS TO S.S.

CREATED <u>02/24/03</u>	REDUCED PRESSURE BACKFLOW PREVENTER ASSY. (SINGLE SERVICE: 3/4", 1", 1-1/2", 2")	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
REVISED <u>AUG 2015</u>		
REVISED <u>JULY 2019</u>		
REVISED <u>AUG 2019</u>		
	PASCO COUNTY UTILITIES	DETAIL W8

- NOTES:
- FIELD ADJUST AND CUT ITEM 6 TO THE PROPER LENGTH.
  - BFP DEVICE TO BE INSTALLED LEVEL AND PLUMB.
  - MINIMUM CLEARANCE OF 12" TO BE MAINTAINED AROUND ENTIRE BFP ASSEMBLY FOR TESTING
  - ENTIRE ASSEMBLY TO BE INSTALLED LEVEL AND PLUMB THEN PAINTED SAFETY BLUE.
  - CONCRETE SLAB TO EXTEND 12" MIN. AROUND ENTIRE BFP ASSEMBLY.
  - DEVICE MUST BE LISTED WITH THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH.
  - CONTRACTOR SHALL TEST AND CERTIFY BACKFLOW PREVENTION DEVICE.
  - 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.

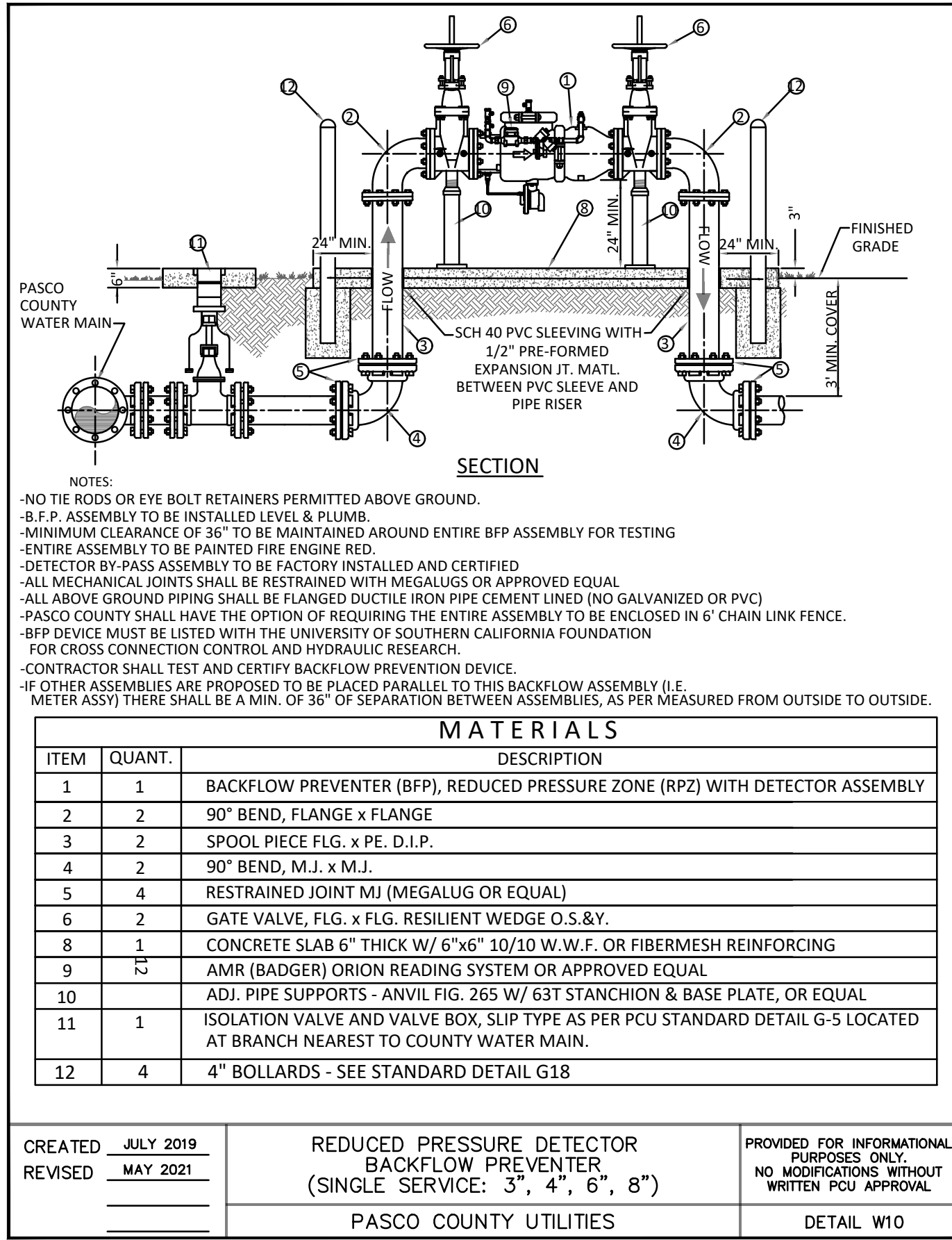
CREATED <u>FEB 2003</u>	REDUCED PRESSURE BACKFLOW PREVENTER ASSY. PARALLEL INSTALLATION NOTES (3/4", 1", 1-1/2", 2")	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL
REVISED <u>MAY 2021</u>		
	PASCO COUNTY UTILITIES	DETAIL W9A

DRAWING WALID UNLESS SPECIFIED, DATED & SEALED BY REGISTERED PROFESSIONAL ENGINEER  
 JAMES P. GRAYSON, P.E. # 93232

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DATE	REV. BY	REV. NO.	REVISION

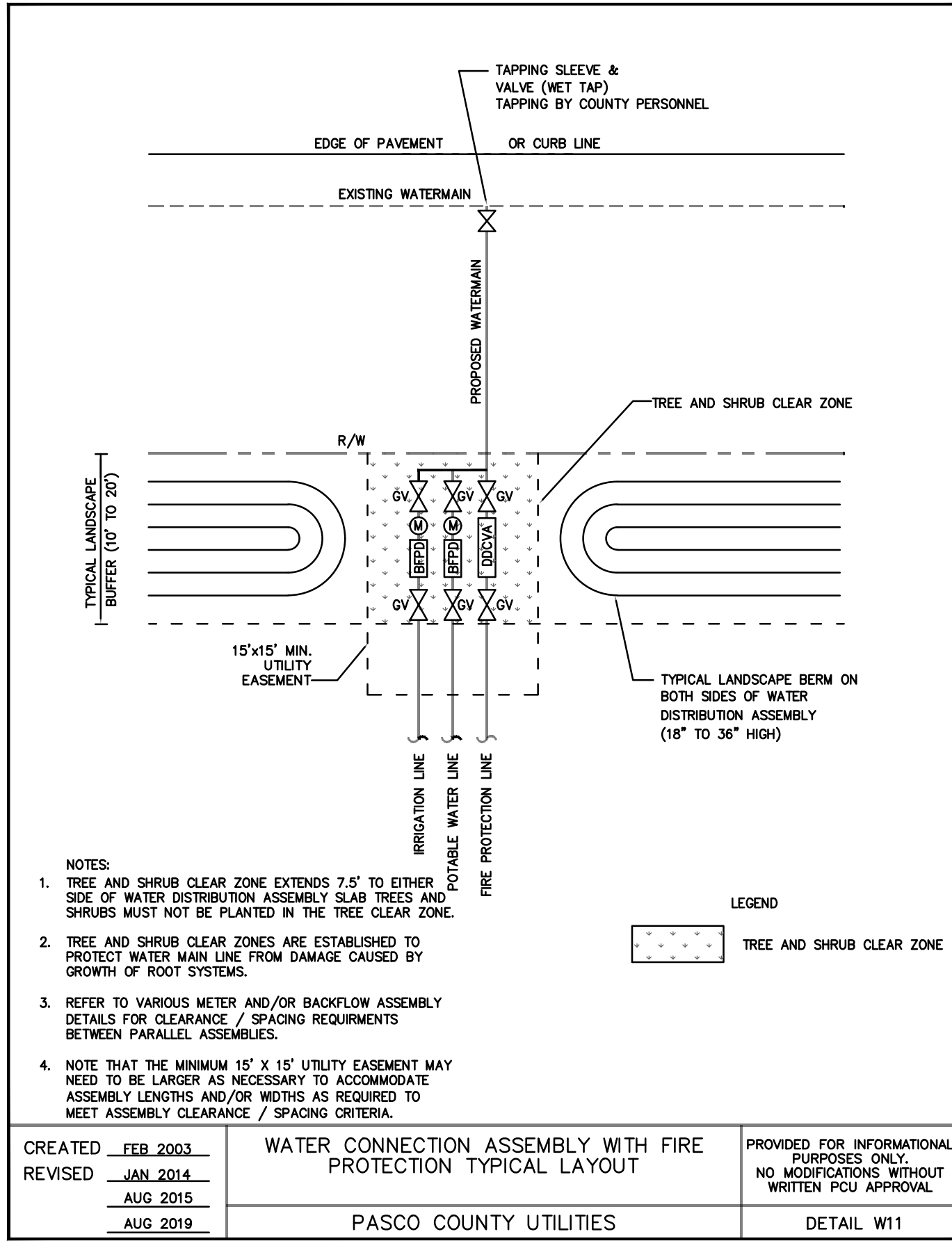
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- NOTES:
- NO TIE RODS OR EYE BOLT RETAINERS PERMITTED ABOVE GROUND.
  - B.F.P. ASSEMBLY TO BE INSTALLED LEVEL & PLUMB.
  - MINIMUM CLEARANCE OF 36" TO BE MAINTAINED AROUND ENTIRE BFP ASSEMBLY FOR TESTING ENTIRE ASSEMBLY TO BE PAINTED FIRE ENGINE RED.
  - DETECTOR BY-PASS ASSEMBLY TO BE FACTORY INSTALLED AND CERTIFIED.
  - ALL MECHANICAL JOINTS SHALL BE RESTRAINED WITH MEGALUGS OR APPROVED EQUAL.
  - ALL ABOVE GROUND PIPING SHALL BE FLANGED DUCTILE IRON PIPE CEMENT LINED (NO GALVANIZED OR PVC).
  - PASCO COUNTY SHALL HAVE THE OPTION OF REQUIRING THE ENTIRE ASSEMBLY TO BE ENCLOSED IN 6" CHAIN LINK FENCE.
  - BFP DEVICE MUST BE LISTED WITH THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH.
  - CONTRACTOR SHALL TEST AND CERTIFY BACKFLOW PREVENTION DEVICE.
  - IF OTHER ASSEMBLIES ARE PROPOSED TO BE PLACED PARALLEL TO THIS BACKFLOW ASSEMBLY (I.E. METER ASST) THERE SHALL BE A MIN. OF 36" OF SEPARATION BETWEEN ASSEMBLIES, AS PER MEASURED FROM OUTSIDE TO OUTSIDE.

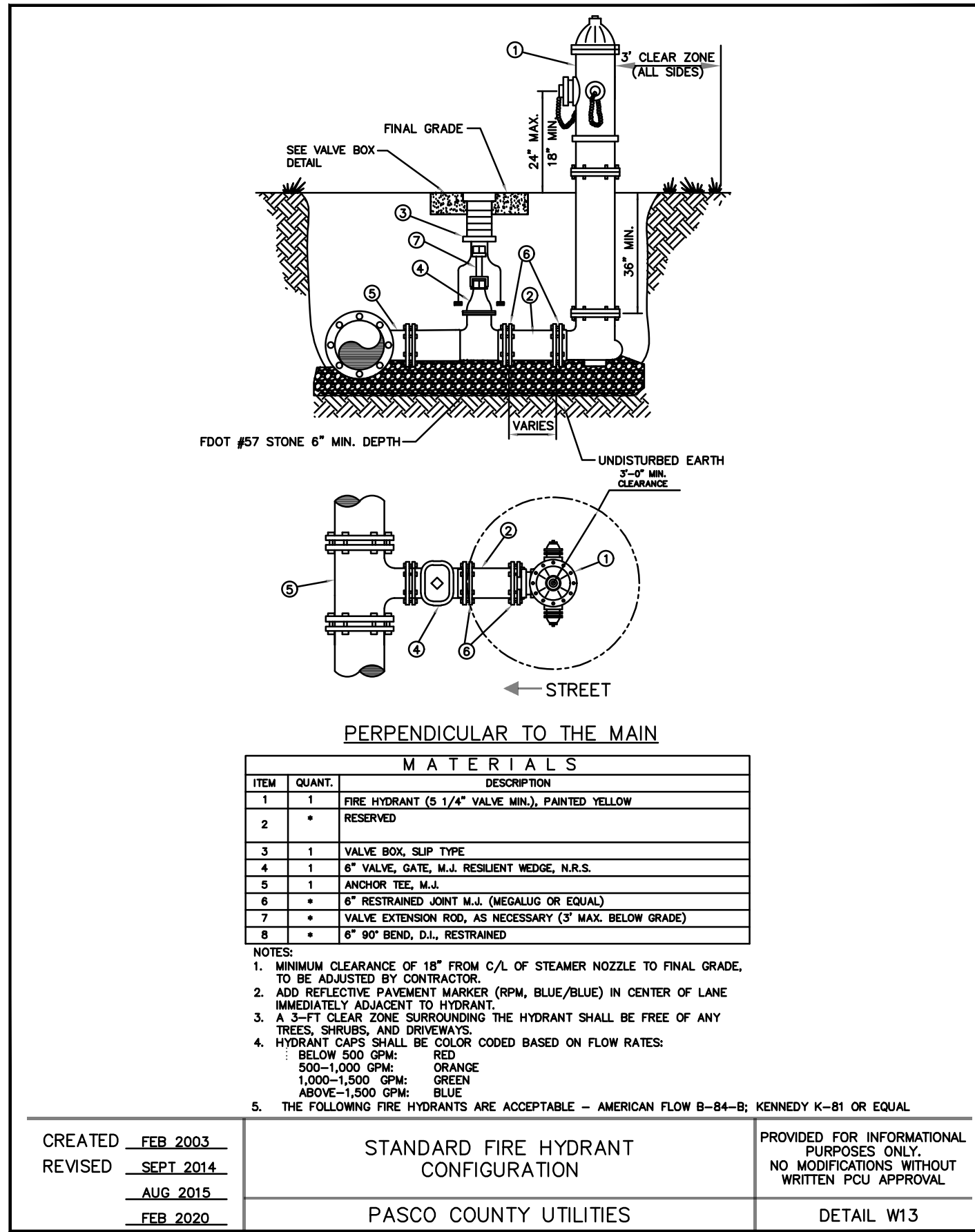
ITEM	QUANT.	DESCRIPTION
1	1	BACKFLOW PREVENTER (BFP), REDUCED PRESSURE ZONE (RPZ) WITH DETECTOR ASSEMBLY
2	2	90° BEND, FLANGE x FLANGE
3	2	SPOOL PIECE FLG. x PE. D.I.P.
4	2	90° BEND, M.J. x M.J.
5	4	RESTRAINED JOINT M.J. (MEGALUG OR EQUAL)
6	2	GATE VALVE, FLG. x FLG. RESILIENT WEDGE O.S.&Y.
8	1	CONCRETE SLAB 6" THICK W/ 6"x6" 10/10 W.W.F. OR FIBERMESH REINFORCING
9	1	AMR (BADGER) ORION READING SYSTEM OR APPROVED EQUAL
10	1	ADJ. PIPE SUPPORTS - ANVIL FIG. 265 W/ 63T STANCHION & BASE PLATE, OR EQUAL
11	1	ISOLATION VALVE AND VALVE BOX, SLIP TYPE AS PER PCU STANDARD DETAIL G-5 LOCATED AT BRANCH NEAREST TO COUNTY WATER MAIN.
12	4	4" BOLLARDS - SEE STANDARD DETAIL G18

CREATED	JULY 2019	REDUCED PRESSURE DETECTOR BACKFLOW PREVENTER (SINGLE SERVICE: 3", 4", 6", 8")	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED	MAY 2021		
		PASCO COUNTY UTILITIES	DETAIL W10



- NOTES:
- TREE AND SHRUB CLEAR ZONE EXTENDS 7.5' TO EITHER SIDE OF WATER DISTRIBUTION ASSEMBLY SLAB TREES AND SHRUBS MUST NOT BE PLANTED IN THE TREE CLEAR ZONE.
  - TREE AND SHRUB CLEAR ZONES ARE ESTABLISHED TO PROTECT WATER MAIN LINE FROM DAMAGE CAUSED BY GROWTH OF ROOT SYSTEMS.
  - REFER TO VARIOUS METER AND/OR BACKFLOW ASSEMBLY DETAILS FOR CLEARANCE / SPACING REQUIREMENTS BETWEEN PARALLEL ASSEMBLIES.
  - NOTE THAT THE MINIMUM 15' x 15' UTILITY EASEMENT MAY NEED TO BE LARGER AS NECESSARY TO ACCOMMODATE ASSEMBLY LENGTHS AND/OR WIDTHS AS REQUIRED TO MEET ASSEMBLY CLEARANCE / SPACING CRITERIA.

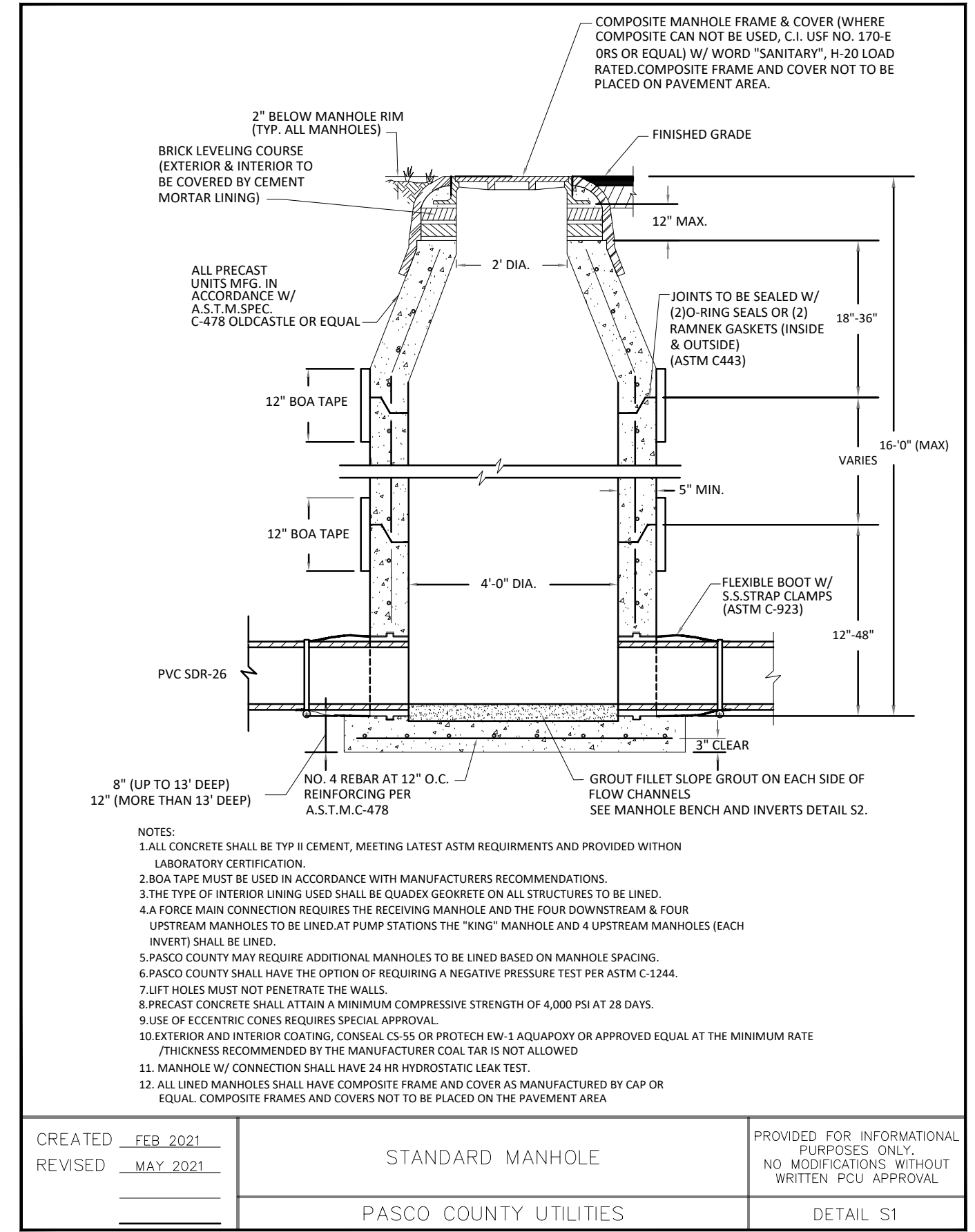
CREATED	FEB 2003	WATER CONNECTION ASSEMBLY WITH FIRE PROTECTION TYPICAL LAYOUT	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED	JAN 2014		
	AUG 2015		
	AUG 2019		
		PASCO COUNTY UTILITIES	DETAIL W11



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

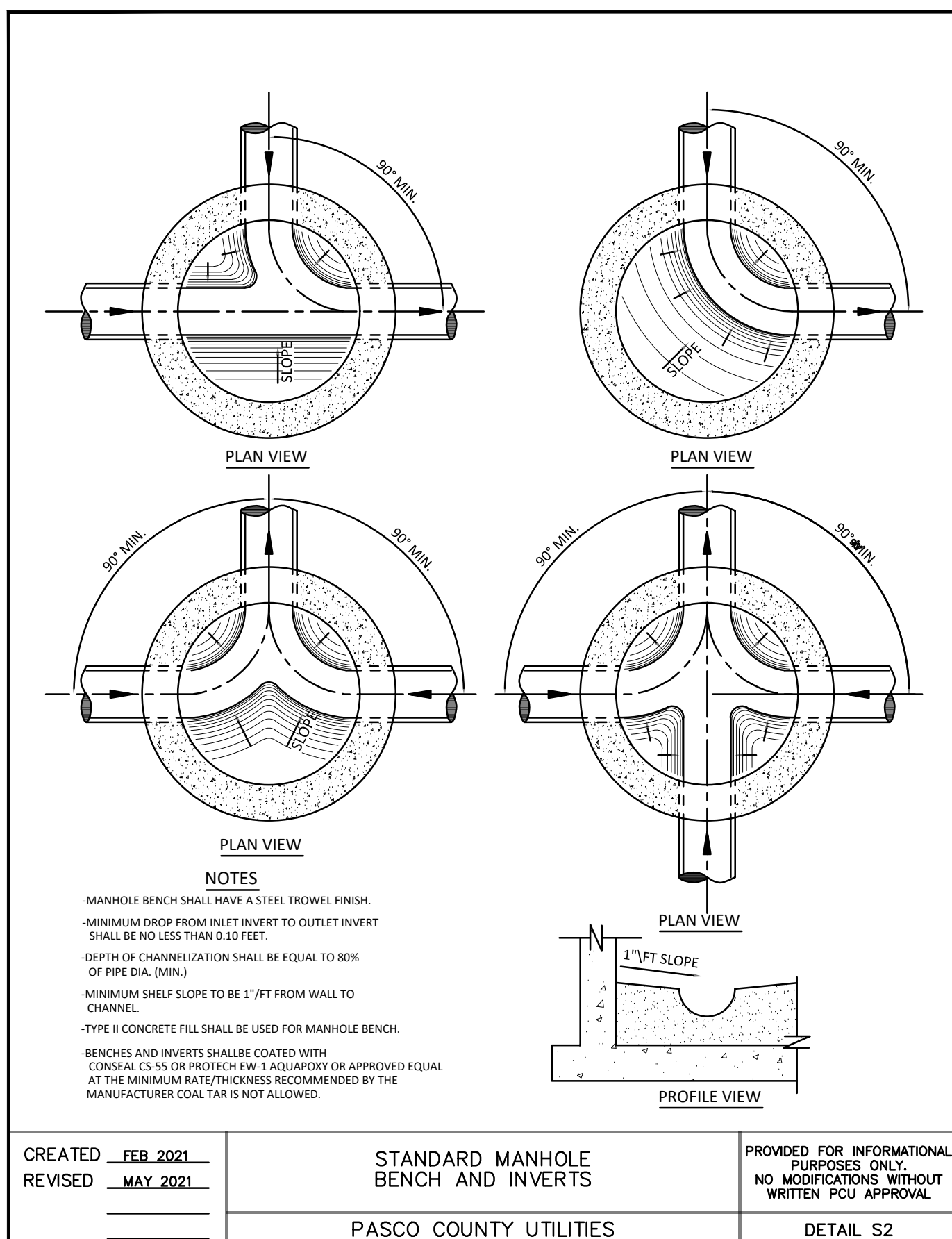
- NOTES:
- MINIMUM CLEARANCE OF 18" FROM C/A. OF STEAMER NOZZLE TO FINAL GRADE, TO BE ADJUSTED BY CONTRACTOR.
  - ADD REFLECTIVE PAVEMENT MARKER (RPM, BLUE/BLUE) IN CENTER OF LANE IMMEDIATELY ADJACENT TO HYDRANT.
  - A 5'-FT CLEAR ZONE SURROUNDING THE HYDRANT SHALL BE FREE OF ANY TREES, SHRUBS, AND DRIVWAYS.
  - 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
  - THE FOLLOWING FIRE HYDRANTS ARE ACCEPTABLE - AMERICAN FLOW B-84-B; KENNEDY K-B1 OR EQUAL.

CREATED	FEB 2003	STANDARD FIRE HYDRANT CONFIGURATION	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED	SEPT 2014		
	AUG 2015		
	FEB 2020		
		PASCO COUNTY UTILITIES	DETAIL W13



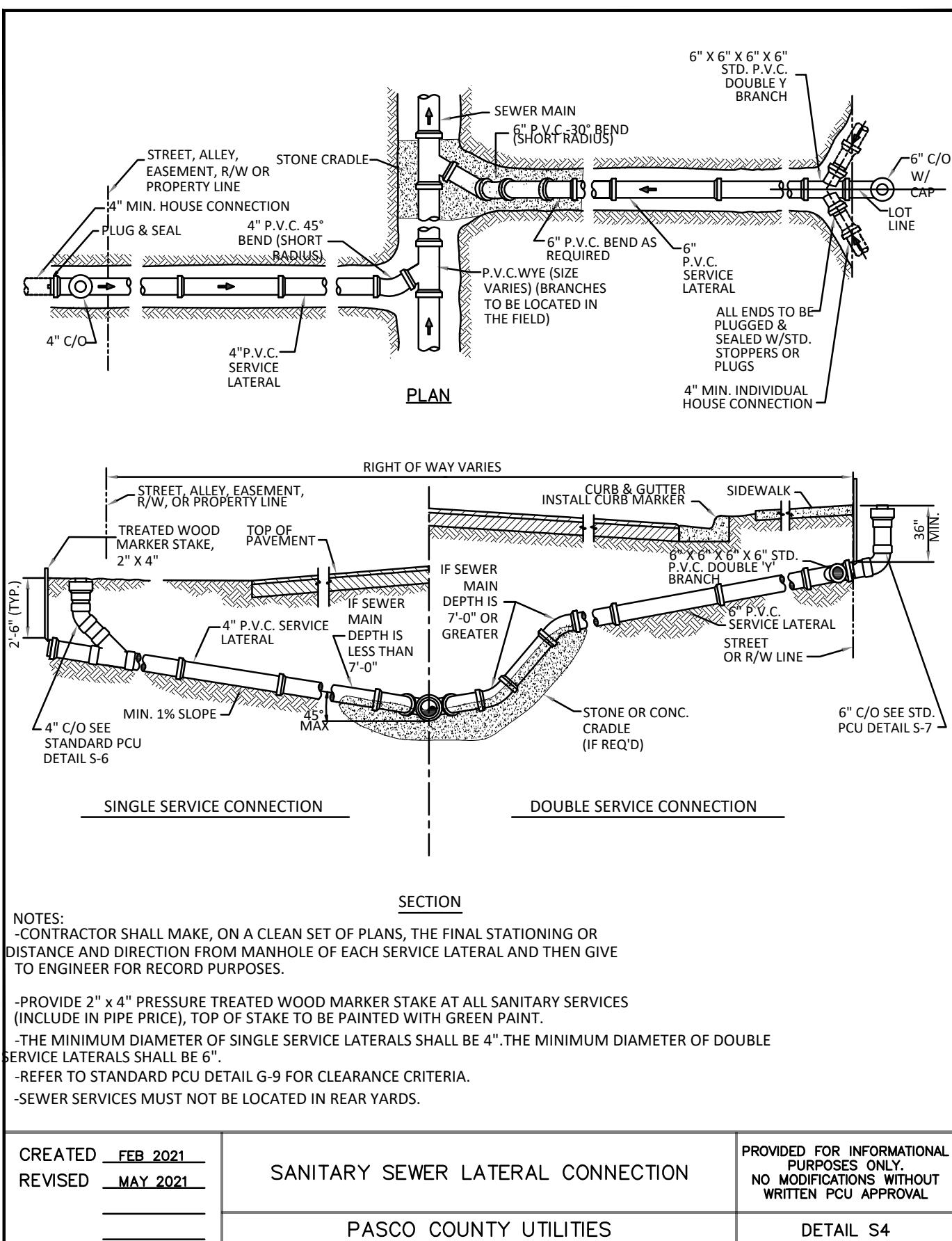
- NOTES:
- ALL CONCRETE SHALL BE TYP. CEMENT, MEETING LATEST ASTM REQUIREMENTS AND PROVIDED WITHON LABORATORY CERTIFICATION.
  - BOA TAPE MUST BE USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
  - THE TYPE OF INTERIOR LINING USED SHALL BE QUADRI GEOMETRIC ON ALL STRUCTURES TO BE LINED.
  - A FORCE MAIN CONNECTION REQUIRES THE RECEIVING MANHOLE AND THE FOUR DOWNSTREAM & FOUR UPSTREAM MANHOLES TO BE LINED AT PUMP STATIONS THE "WIND" MANHOLE AND 4 UPSTREAM MANHOLES (EACH INVERT) SHALL BE LINED.
  - PASCO COUNTY MAY REQUIRE ADDITIONAL MANHOLES TO BE LINED BASED ON MANHOLE SPACING.
  - PASCO COUNTY SHALL HAVE THE OPTION OF REQUIRING A NEGATIVE PRESSURE TEST PER ASTM C-1344.
  - LIFT HOLES MUST NOT PENETRATE THE WALLS.
  - PRECAST CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
  - USE OF ECCENTRIC CONES REQUIRES SPECIAL APPROVAL.
  - EXTERIOR AND INTERIOR COATING, CONGAL CS-55 OR PROTECT EW-1 AQUADPOXY OR APPROVED EQUAL AT THE MINIMUM RATE (THICKNESS RECOMMENDED BY THE MANUFACTURER) SHALL BE APPLIED TO ALL INTERIOR SURFACES.
  - MANHOLE W/ CONNECTION SHALL HAVE 24 HR HYDROSTATIC LEAK TEST.
  - ALL LINED MANHOLES SHALL HAVE COMPOSITE FRAME AND COVER AS MANUFACTURED BY CAP OR EQUAL. COMPOSITE FRAMES AND COVERS NOT TO BE PLACED ON THE PAVEMENT AREA.

CREATED	FEB 2021	STANDARD MANHOLE	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED	MAY 2021		
		PASCO COUNTY UTILITIES	DETAIL S1



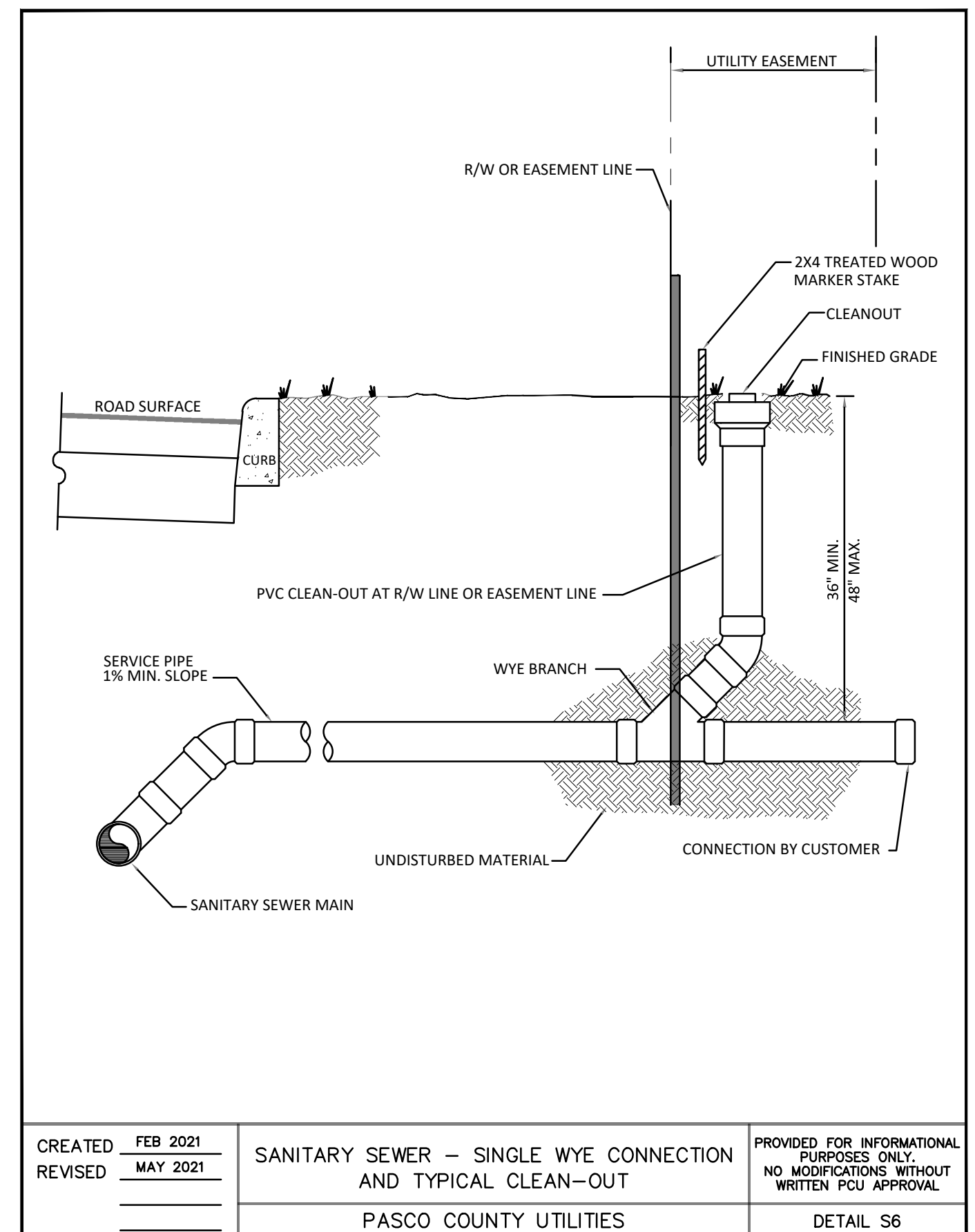
- NOTES:
- MANHOLE BENCH SHALL HAVE A STEEL TROWEL FINISH.
  - MINIMUM DROP FROM INLET INVERT TO OUTLET INVERT SHALL BE NO LESS THAN 0.05 FEET.
  - DEPTH OF CHANNELIZATION SHALL BE EQUAL TO 80% OF PIPE DIA. (MIN.)
  - MINIMUM SHELF SLOPE TO BE 1/7" FT FROM WALL TO CHANNEL.
  - TYPE II CONCRETE FILL SHALL BE USED FOR MANHOLE BENCH.
  - BENCHES AND INVERTS SHALL BE COATED WITH CONGAL CS-55 OR PROTECT EW-1 AQUADPOXY OR APPROVED EQUAL AT THE MINIMUM RATE/THICKNESS RECOMMENDED BY THE MANUFACTURER COAT THAR IS NOT ALLOWED.

CREATED	FEB 2021	STANDARD MANHOLE BENCH AND INVERT	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED	MAY 2021		
		PASCO COUNTY UTILITIES	DETAIL S2

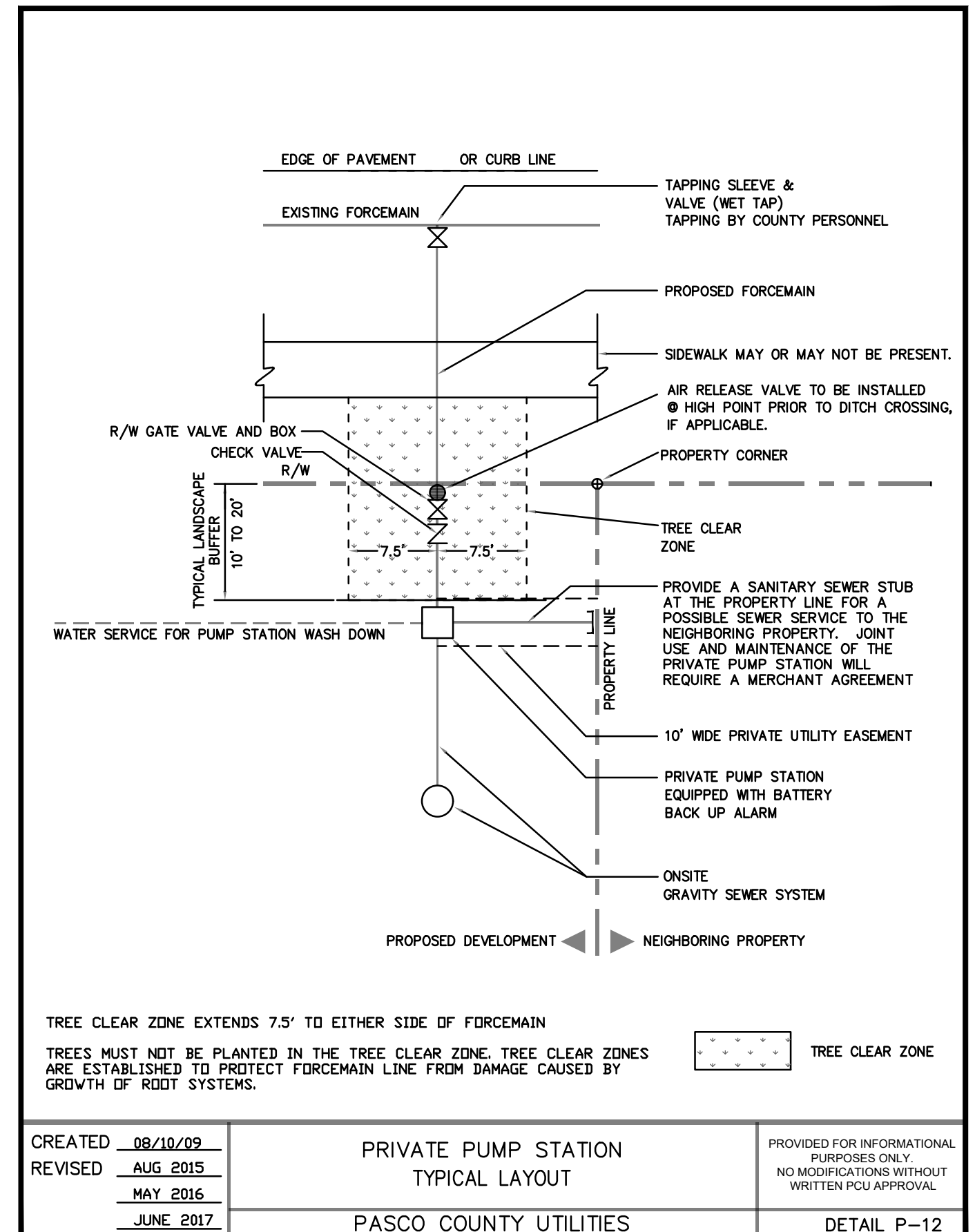


- NOTES:
- CONTRACTOR SHALL MAKE, ON A CLEAN SET OF PLANS, THE FINAL STATIONING OR DISTANCE AND DIRECTION FROM MANHOLE OF EACH SERVICE LATERAL AND THEN GIVE TO ENGINEER FOR RECORD PURPOSES.
  - PROVIDE 2" x 4" PRESSURE TREATED WOOD MARKER STAKE AT ALL SANITARY SERVICES (INCLUDE IN PIPE PRICE). TOP OF STAKE TO BE PAINTED WITH GREEN PAINT.
  - THE MINIMUM DIAMETER OF SINGLE SERVICE LATERALS SHALL BE 4". THE MINIMUM DIAMETER OF DOUBLE SERVICE LATERALS SHALL BE 6".
  - REFER TO STANDARD PCU DETAIL G-9 FOR CLEARANCE CRITERIA.
  - SEWER SERVICES MUST NOT BE LOCATED IN REAR YARDS.

CREATED	FEB 2021	SANITARY SEWER LATERAL CONNECTION	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED	MAY 2021		
		PASCO COUNTY UTILITIES	DETAIL S4

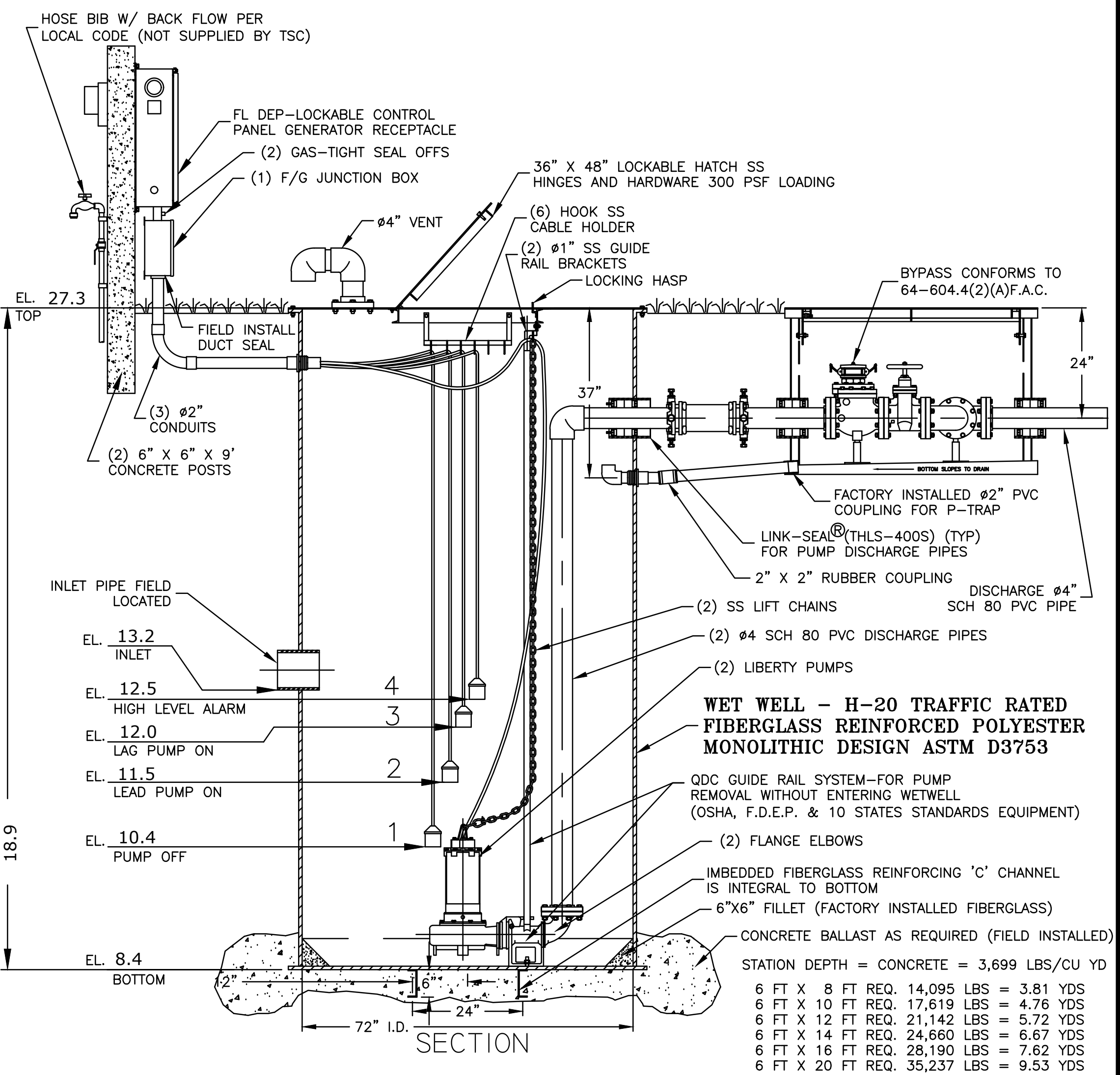
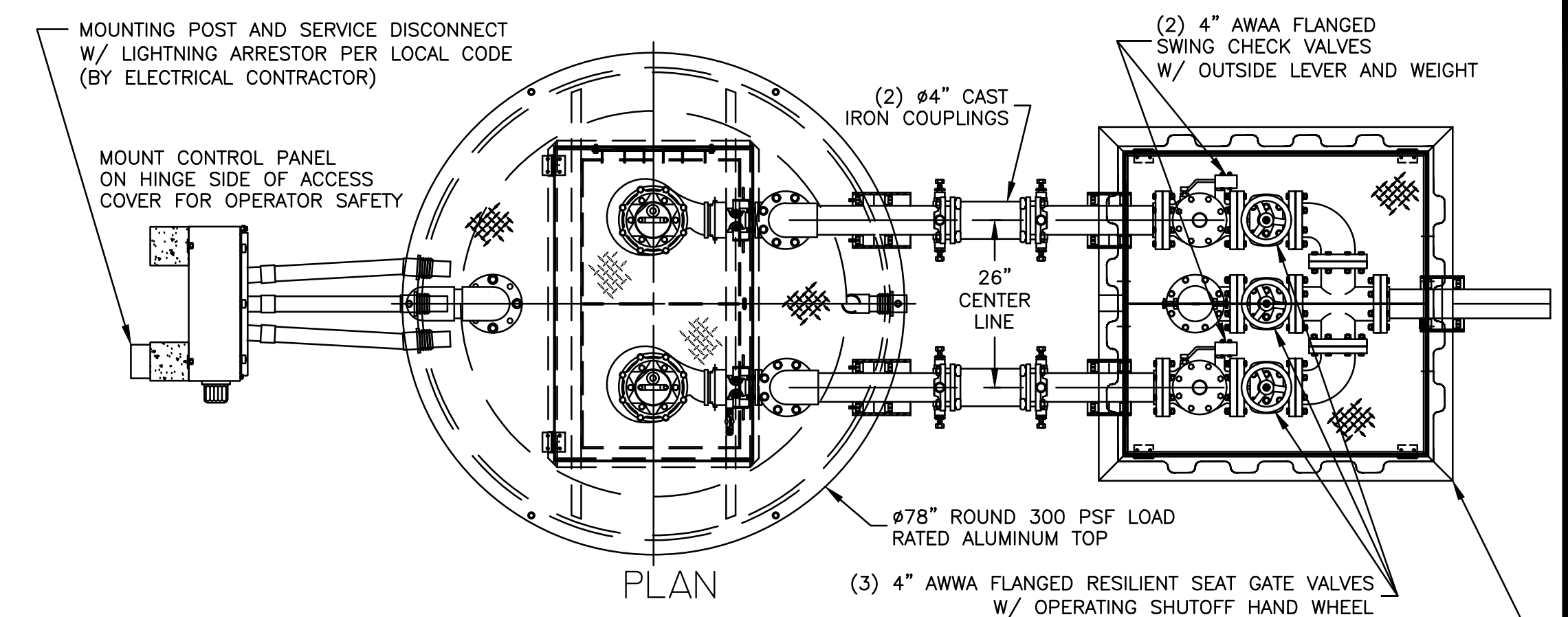


CREATED	FEB 2021	SANITARY SEWER - SINGLE WYE CONNECTION AND TYPICAL CLEAN-OUT	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED	MAY 2021		
		PASCO COUNTY UTILITIES	DETAIL S6



- NOTES:
- TREE CLEAR ZONE EXTENDS 7.5' TO EITHER SIDE OF FORCEMAIN
  - TREES MUST NOT BE PLANTED IN THE TREE CLEAR ZONE. TREE CLEAR ZONES ARE ESTABLISHED TO PROTECT FORCEMAIN LINE FROM DAMAGE CAUSED BY GROWTH OF ROOT SYSTEMS.

CREATED	08/10/09	PRIVATE PUMP STATION TYPICAL LAYOUT	PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO MODIFICATIONS WITHOUT WRITTEN PCU APPROVAL.
REVISED	AUG 2015		
	MAY 2016		
	JUNE 2017		
		PASCO COUNTY UTILITIES	DETAIL P-12



72" DUPLEX STATION - 4" PIPING  
WITH SLIDE RAIL SYSTEM, V.B. AND F.D.E.P. PANEL  
TSC PRE-FAB PUMP SOLUTIONS®

MODEL  
TSC2-72.4 R21.dwg©

1. HOSE BIBB WITH REDUCED PRESSURE BACK FLOW PREVENTER  
FIELD INSTALL BY CONTRACTOR

JOB: \_\_\_\_\_  
DATE: \_\_\_\_\_  
QS: \_\_\_\_\_

### GENERAL NOTES

FURNISH AND INSTALL LIBERTY SUBMERSIBLE GRINDER PUMPS:

DESIGN CONDITION:

MODEL	LGV-05	5	HP
GPM	155	39.8	FT/TDH
VOLTAGE	208/230 OR 460	SINGLE/THREE	PHASE
DISCHARGE	4"	5.1 INCH	IMPELLER

- SEWAGE GRINDER PUMP: 1. RATED FOR FIFTEEN (15) STARTS PER HOUR.  
2. OIL FILLED MOTOR DESIGNED FOR SEWAGE APPLICATION WITH CLASS H INSULATION.  
3. DUAL MECHANICAL SHAFT SEALS (SILICON CARBIDE / SILICON CARBIDE)  
4. HIGH TEMPERATURE BALL BEARINGS B-10 RATING OF 100,000 HOURS, UPPER - SINGLE ROW, LOWER - DOUBLE ROW  
5. PUMP SHAFT HORSEPOWER (BHP) SHALL NOT EXCEED MOTOR RATED HORSEPOWER THROUGHOUT THE ENTIRE OPERATING RANGE OF THE PUMP PERFORMANCE CURVE.  
6. MOTORS SHALL BE DUAL WOUND AND CAPABLE OF OPERATING ON 208/230 VOLT WITH A 10% TOLERANCE VOLTAGE (190 TO 260) OR OPERATE ON 460 VOLT BY CHANGING THE MOTOR LEADS INSIDE THE PUMP.

FIBERGLASS WET WELL: SHALL BE A ONE PIECE UNIT WITH INTEGRAL BOTTOM, WALL AND UPPER FLANGE. THE ENTIRE FIBERGLASS WET WELL SHALL HAVE A DYNAMIC LOAD RATING OF 16,000 FT/LBS. EACH UNIT MUST BE SERIAL NUMBERED TO IDENTIFY THE TEST PROCEDURE. ASTM D 3753 & H-20 SPECIFICATIONS SHALL BE REQUIRED AS MINIMUM.

ALUMINUM HATCH: TSC MODEL-78R (78") ROUND WITH 36" X 48" LOCKABLE HATCH, REINFORCED FOR LOAD RATING OF 300 LBS/FT WITH HOLD OPEN SAFETY ARM, LOCKING DEVICE FOR HASP TYPE PADLOCK AND STAINLESS STEEL HARDWARE.

VALVE BOX: FIBERGLASS COMPOSITE (H-10 TRAFFIC RATED) WITH INTEGRAL BOTTOM. (FOR 4" DISCHARGE PIPING F/XF HEADER SYSTEM) SHALL BE 48" X 48" X 36" WITH ALUMINUM TOP 48" X 48" DOUBLE DOOR LOCKABLE HATCH, REINFORCED FOR LOAD RATING OF 300 LBS/FT, LOCKING DEVICE FOR HASP TYPE PADLOCK AND STAINLESS STEEL HARDWARE.

ACCESSORIES: #304 S/S - GUIDE RAILS, UPPER GUIDE RAIL BRACKETS, CABLE HOLDER, ANCHOR BOLTS AND PUMP LIFTING CHAINS.

VALVES: SHALL BE SEWAGE SERVICE DESIGN LEVER AND WEIGHT CHECK VALVES AND RESILIENT SEAT GATE VALVES OPEN 100% WITH OPERATING HAND WHEEL.

PIPING: 4" SCHEDULE 80 PVC.

FLOAT SWITCHES: UL LISTED SJ ELECTRO MODEL (SJ 30 SWENO).

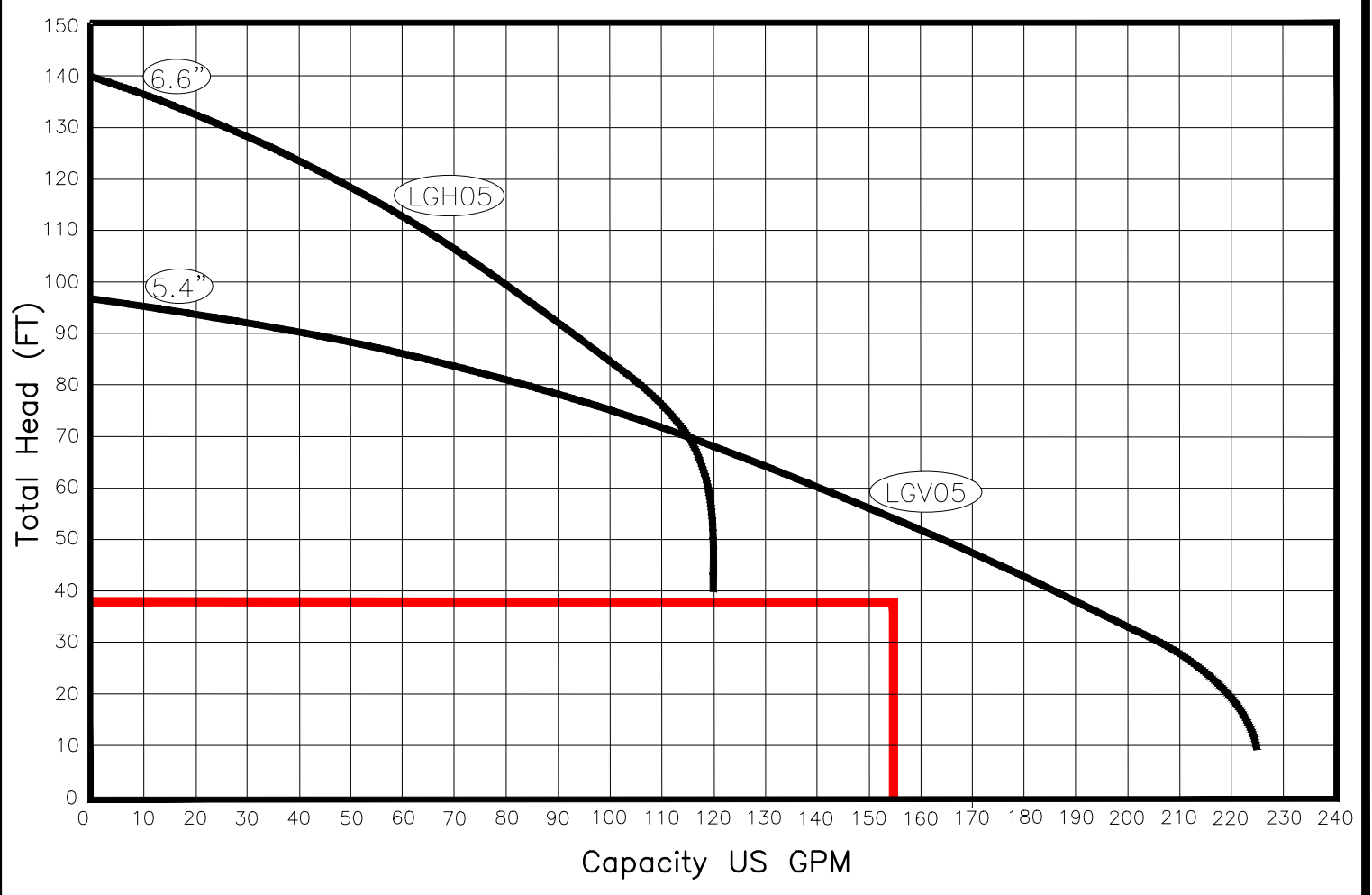
PUMP SUPPLIER SHALL PROVIDE SUBMERSIBLE PUMPS, SLIDE RAIL ASSEMBLIES, CONTROL PANEL, JUNCTION BOX, FLOAT SWITCHES, ALUMINUM HATCHES AND ACCESSORIES TO INSURE PROPER OPERATION AND WARRANTY.

THE COMPLETE PACKAGE PUMPING STATION SHALL HAVE PUMP BASES, SLIDE RAIL ASSEMBLIES AND DISCHARGE PIPING ASSEMBLED BY TECHNICAL SALES CORPORATION READY TO SHIP FOR FIELD INSTALLATION. THE MANUFACTURER OF PRE-FAB PUMP SOLUTIONS®.

TECHNICAL SALES CORPORATION, 4621 N. HALE AVE TAMPA, FL 33614 (813)876-9256

### LIBERTY ENGINEERED PRODUCTS

LIBERTY LGV, LGH 5HP Synchronous Speed: 3450 RPM  
Single and Three Phase  
Design flow: 155 GPM @ 39.8 TDH/FT



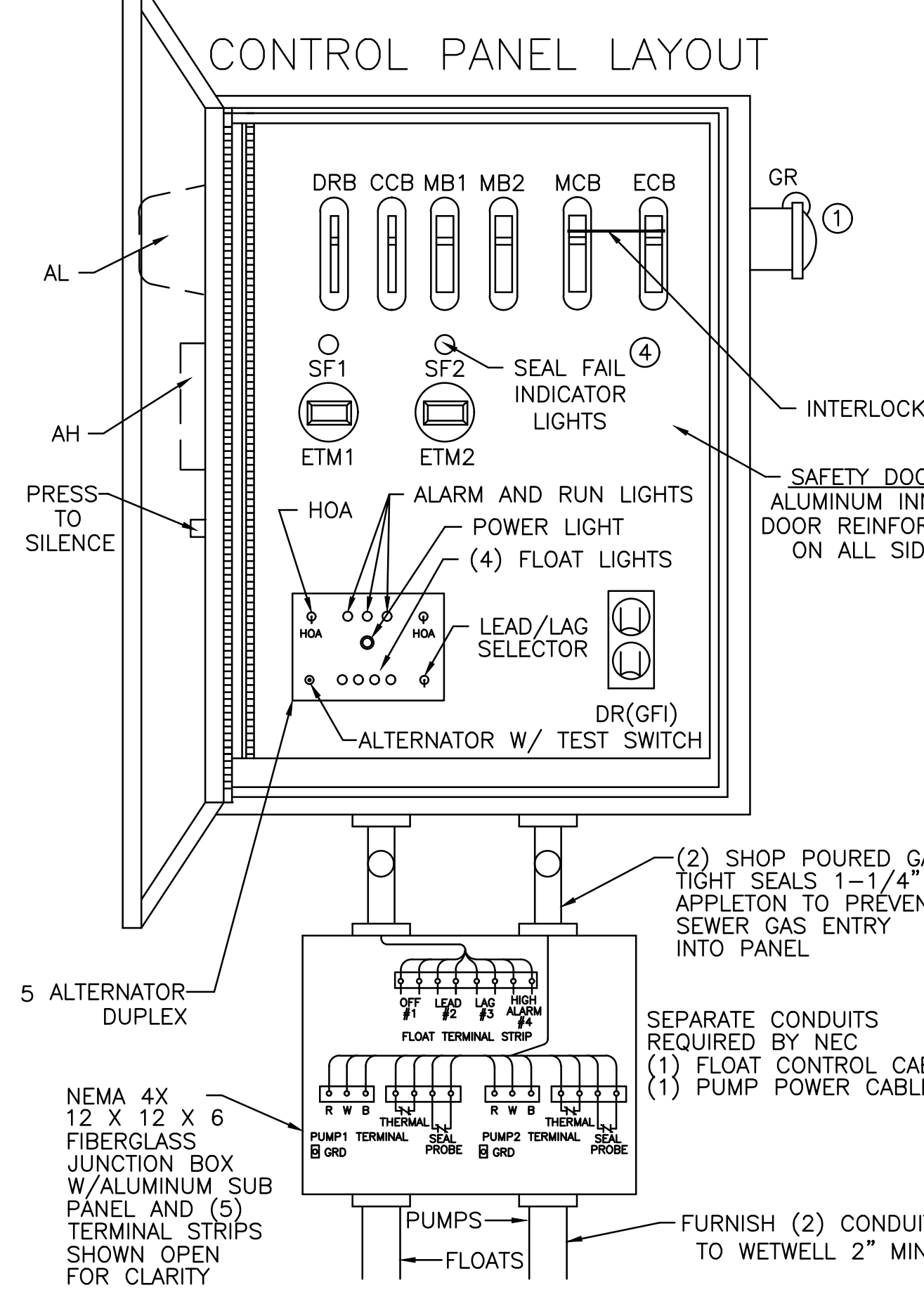
PUMP PERFORMANCE CURVE

CONTROL PANEL - SHALL CONFORM TO FL DEP 62-604 F.A.C.  
CONTROL PANEL SHALL BE TSC MODEL # 38-D IN NEMA 4X FIBERGLASS ENCLOSURE. THE PANEL SHALL MEET STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP), ENVIRONMENTAL PROTECTION COMMISSION (EPC) AND LOCAL CODE REQUIREMENTS GOVERNING PRIVATE LIFT STATIONS.

FLOAT SWITCHES AND CONTROL SYSTEM SHALL BE UL LISTED AND INTRINSICALLY SAFE. ALL COMPONENTS SHALL BE UL LISTED.  
A JUNCTION BOX IS REQUIRED, WITH SHOP POURED SEALS BETWEEN BOX AND CONTROL PANEL TO PREVENT SEWER GAS ENTRY INTO CONTROL PANEL.

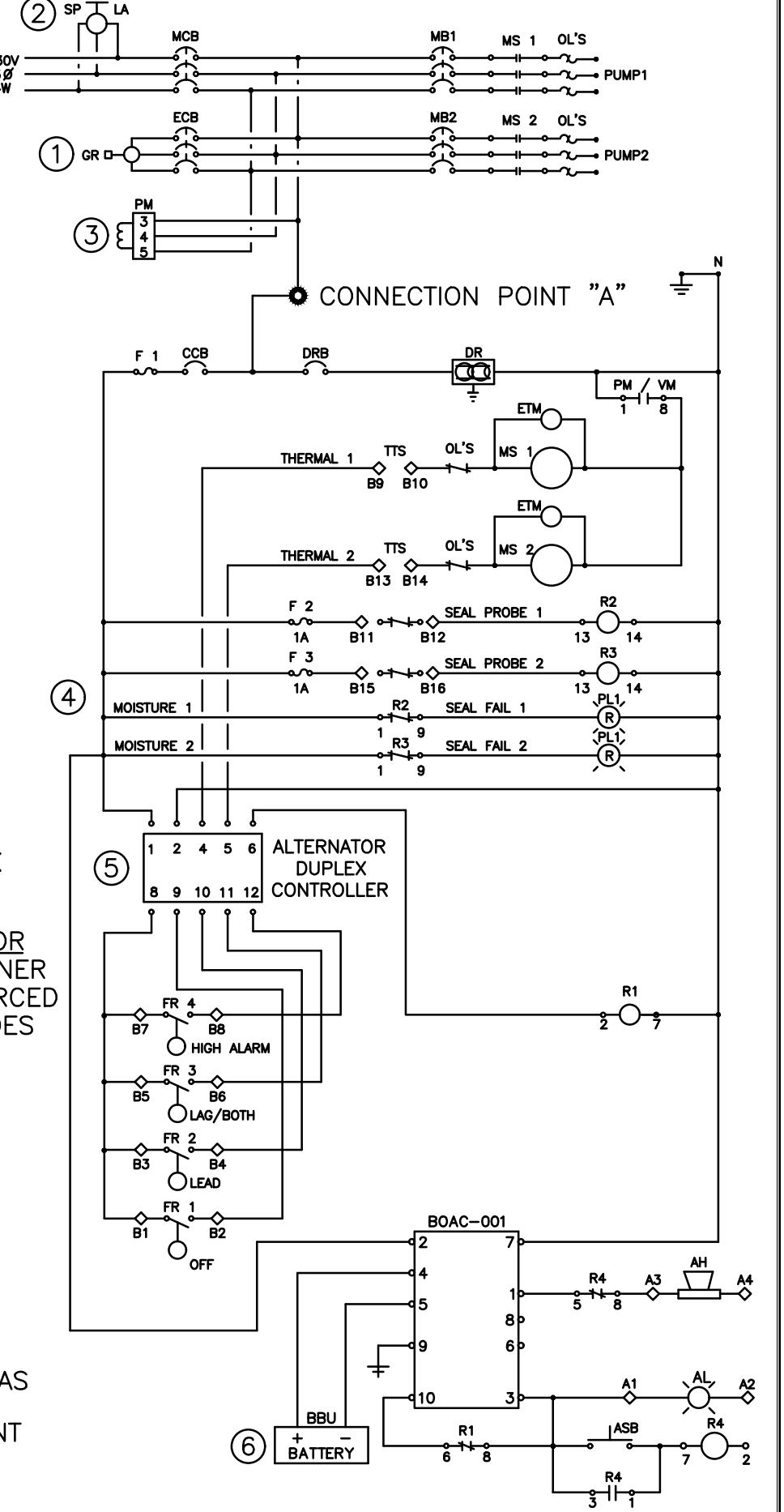
ELECTRICAL CONTRACTOR TO PROVIDE SERVICE DISCONNECT WITH LIGHTNING ARRESTOR MOUNTED PER LOCAL CODES.  
THE CONTROL PANEL SHALL BE SUITABLY INSTALLED TO PREVENT SETTLING OR TIPPING.

BATTERY BACK-UP ALARM SYSTEM TO BE INCORPORATED INTO CONTROL PANEL PER THE "10 STATES STANDARDS"



- LEGEND
- AH ALARM HORN
  - AL ALARM LIGHT
  - ASB ALARM SILENCE BUTTON
  - ⑤ ATS ALTERNATOR W/TEST SWITCH
  - ⑥ BBU BATTERY (BACK-UP UNIT)
  - CCB CONTROL CIRCUIT BREAKER
  - DR DUPLEX RECEPTACLE
  - DRB DUPLEX RECEPTACLE BREAKER
  - ECB EMERGENCY CIRCUIT BREAKER
  - ETM ELAPSED TIME METER
  - F FUSE
  - FL FLASHER
  - FS FLOAT SWITCH (REGULATOR)
  - ① GR GENERATOR RECEPTACLE
  - GRD GROUND
  - HOA HAND-OFF-AUTOMATIC SELECTOR
  - LA LIGHTNING ARRESTOR
  - MB MOTOR BREAKER
  - MCB MAIN CIRCUIT BREAKER
  - MS MOTOR STARTER
  - N NEUTRAL
  - OL'S OVERLOAD HEATERS
  - ③ PM PHASE MONITOR
  - PTS PUMP TERMINAL STRIP
  - R RELAY
  - RC RUN CAPACITOR
  - RD DISCHARGE RESISTOR
  - RL PUMP RUN INDICATORS
  - RTS REGULATOR TERMINAL STRIP
  - SC START CAPACITOR
  - ④ SF SEAL FAIL (SHAFT)
  - SR START RELAY
  - ② SP SURGE PROTECTOR
  - TTS THERMAL TERMINAL STRIP

### THREE PHASE WIRING DIAGRAM



PANEL WIRING DIAGRAM  
PANELS SHALL CONFORM TO FLORIDA DEP 62-604 F.A.C.

- ① GENERATOR RECEPTACLE FOR EMERGENCY POWER CONNECTION WITH INTERLOCK
  - ② SURGE PROTECTION AND LIGHTNING PROTECTION ON ALL INCOMING LEGS
  - ③ PHASE PROTECTION SHALL BE PROVIDED
  - ④ SHAFT SEAL FAIL DETECTION
  - ⑤ ALTERNATOR W/TEST SWITCH
  - ⑥ BATTERY BACK-UP UNIT
- PANEL MANUFACTURER SHALL BE A "UL" LISTED SHOP.

TSC DUPLEX PUMP STATION  
FIBERGLASS WET WELL

**TECHNICAL SALES CORPORATION**

TSC PRE-FAB PUMP SOLUTIONS®  
WATERWORKS & WASTEWATER SPECIALTIES

Representing Innovative Manufacturers  
MODEL TSCE2-72.4©

4621 N. HALE AVENUE PH (813)876-9256  
TAMPA, FL 33614 FAX (813)874-1194  
EMAIL: Sales@TSCtampa.com  
REV-21 SCALE: N.T.S.

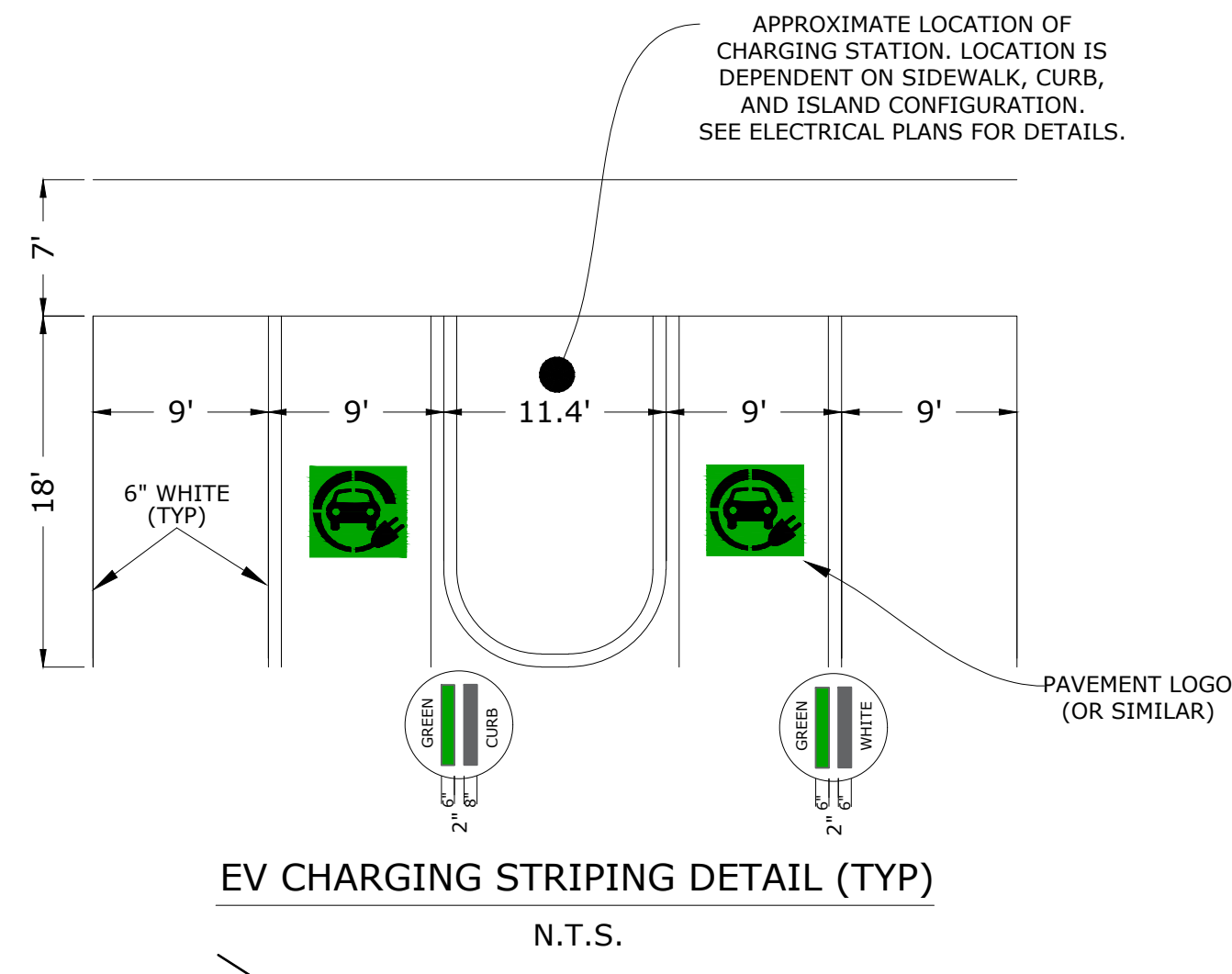
LIFT STATION DETAIL  
AVENTON LITTLE MULTIFAMILY  
PASCO COUNTY, FLORIDA

**REGENCY**  
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DATE	REV. BY	REV. NO.



EV CHARGING STRIPING DETAIL (TYP)  
N.T.S.

- STRIPING NOTES:**
1. TYPICAL PARKING SPACES SHALL BE STRIPED WITH A 6" WIDE WHITE STRIPE.
  2. SEE DETAILS SHEET 15 PER HANDICAP PARKING DETAILS AND SIGNS.
  3. INSTALL STOP SIGN (R1-1) AND 24" WIDE WHITE STRIPE STOP BAR.
  4. ALL STRIPING SHALL BE INSTALLED PER FDOT INDEX NO. 711-001.

- SIGNAGE NOTES:**
1. DESIGN SPEED: 30 MPH POSTED SPEED: 25 MPH
  2. STREET NAME SIGNS SHALL BE 6" ON LOCAL ROADS AND 9" ON COLLECTOR AND ARTERIAL ROADS. SIX-INCH SIGNS SHALL HAVE 4" SERIES C LETTERS AND 9" SIGNS SHALL HAVE 6" SERIES B LETTERS. ALL STREET NAMES 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 MAINTAINED ROAD SHALL BE GREEN BACKGROUND WITH WHITE LETTERS AND BORDER.

**CERTIFICATION:**

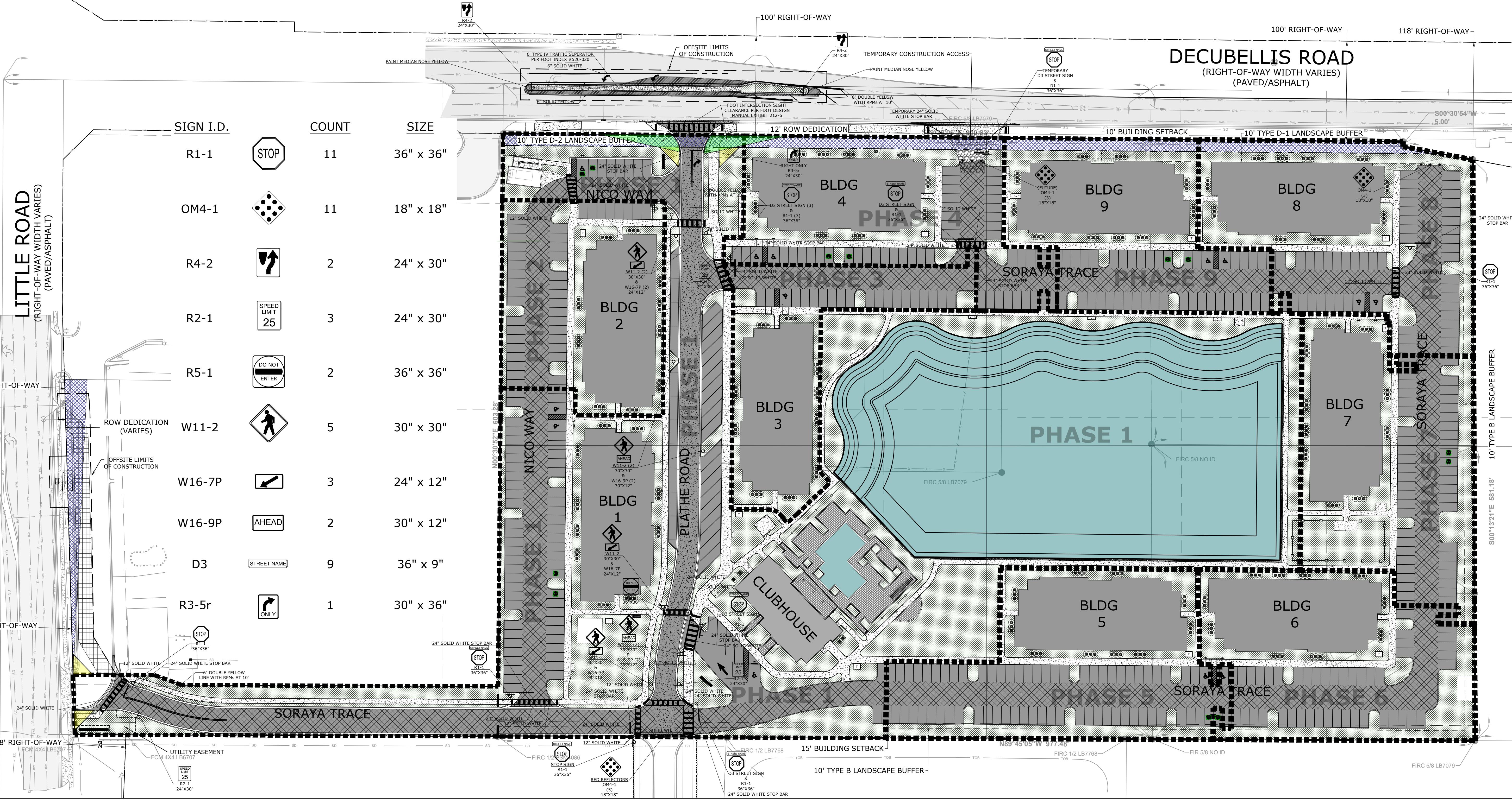
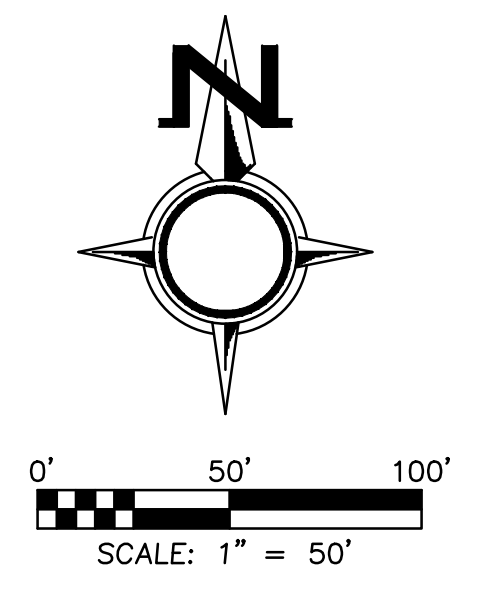
THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS", STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION (2010 EDITION), AND THE FEDERAL MANUAL ON UNIFORM CONTROL DEVICES 2009 EDITION (OR LATEST REVISION).

**NOTE:**

NO LANDSCAPING OR VEGETATION SHALL IMPEDE THE CLEAR SITE TRIANGLES SHOWN HEREIN.

**LEGEND**

- PROPERTY BOUNDARY
- LANDSCAPE BUFFER
- BUILDING SETBACK
- PHASE LINE
- FENCE (SEE PLANS BY OTHERS)
- LIGHT-DUTY ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
- HEAVY-DUTY ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
- PLATHE ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
- DECUBELLIS ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
- CONCRETE (FDOT INDEX NO. 522-001)
- LANDSCAPE AREA
- ASPHALT RESTORATION (SEE SECTION ON SHEET 11)
- EXISTING ASPHALT
- EXISTING CONCRETE
- TRANSFORMER PAD
- SIGHT TRIANGLES (SEE SHEET 8 FOR DETAILS)



SIGN I.D.	COUNT	SIZE
R1-1	11	36" x 36"
OM4-1	11	18" x 18"
R4-2	2	24" x 30"
R2-1	3	24" x 30"
R5-1	2	36" x 36"
W11-2	5	30" x 30"
W16-7P	3	24" x 12"
W16-9P	2	30" x 12"
D3	9	36" x 9"
R3-5r	1	30" x 36"

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PLOT DATE/TIME: Monday, February 09, 2024 @ 1:28 PM  
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**GENERAL NOTES :**

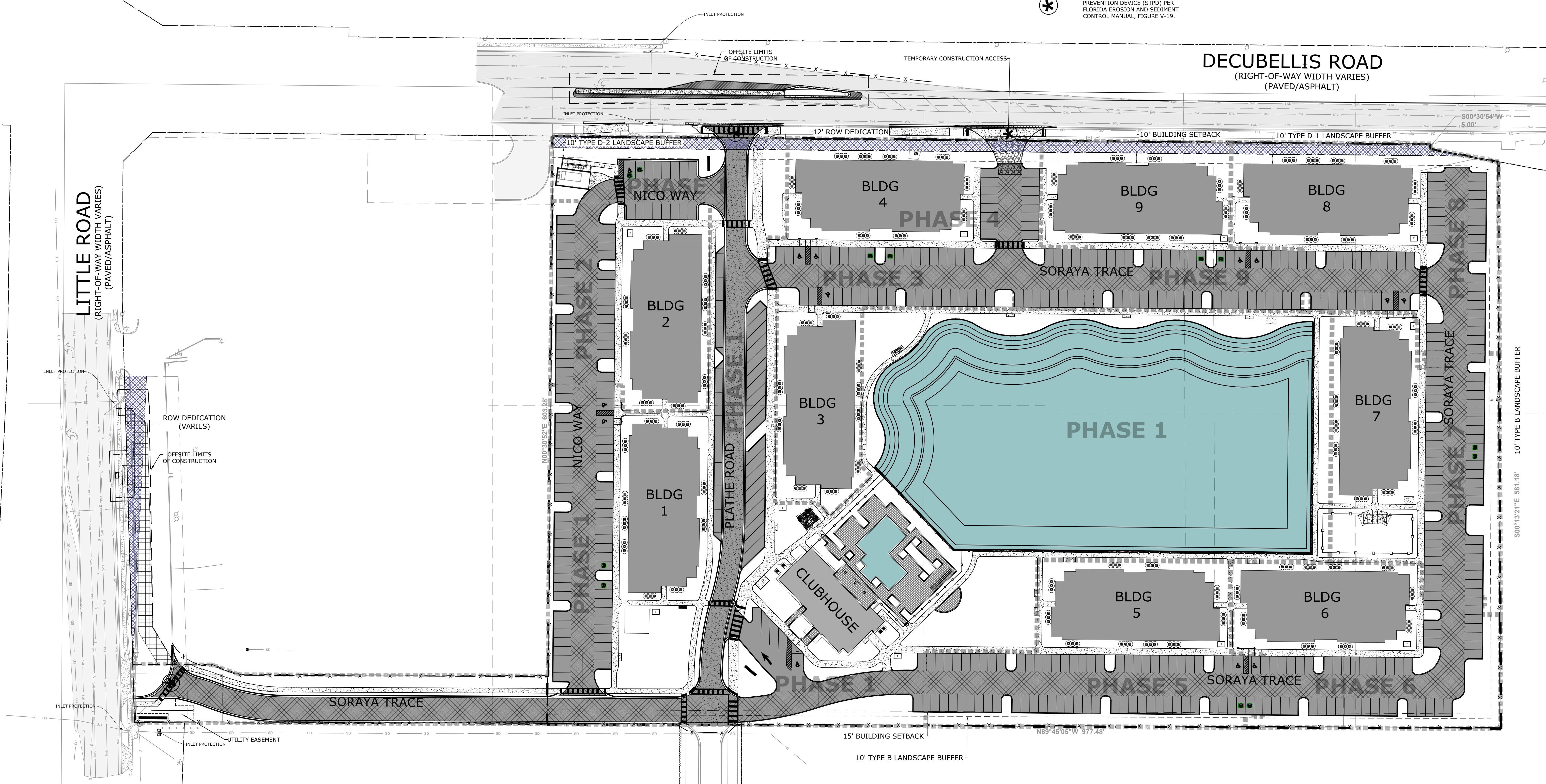
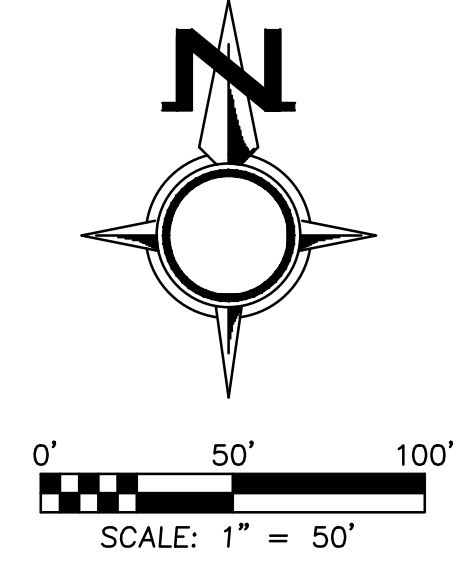
- REQUIRED EROSION CONTROL AND SEDIMENT CONTROL DEVICES SHALL BE IN PLACE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE REMOVED ONLY AFTER STABILIZATION HAS BEEN ESTABLISHED.
- AT ALL TIMES DURING CONSTRUCTION APPLY PERIMETER CONTROL (BMP'S) PRACTICES TO PROTECT THE DISTURBED AREA FROM OFFSITE RUNOFF AND TO PREVENT SEDIMENTATION DAMAGE TO AREAS BELOW ACTIVITY.
- NO ILLICIT DISCHARGE SHALL OCCUR AS A RESULT OF ACTIVITY PERFORMED PURSUANT TO THIS PERMIT.
- INLETS TO STORM SEWERS SHALL BE PROTECTED BY SUITABLE FILTERING DEVICES DURING CONSTRUCTION TO KEEP POLLUTANTS FROM ENTERING CONVEYANCE SYSTEMS.
- CONTRACTOR SHALL MINIMIZE THE EXTENT OF AREA EXPOSED OF NATURAL VEGETATION AT ONE TIME AND THE DURATION OF EXPOSURE TO MINIMIZE EROSION POTENTIAL.
- SOIL TRACKING PREVENTION DEVICE (STPD) TO BE INSTALLED AT ALL CONSTRUCTION ACCESS POINTS FROM STATE OR COUNTY MAINTAINED ROADS. STPD TO BE INSTALLED PER FLORIDA EROSION AND SEDIMENT CONTROL MANUAL, FIGURE V-19.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ANY SEDIMENT THAT ENTERS INTO THE EXISTING STORMWATER SYSTEM, INCLUDING BUT NOT LIMITED TO ALL EXISTING AND PROPOSED PIPES AND THE EXISTING STORMWATER MANAGEMENT FACILITY.

**NOTES:**

- CONTRACTOR SHALL PROVIDE A DEWATERING PLAN, IF APPLICABLE, TO THE PASCO COUNTY ENGINEERING INSPECTIONS DEPARTMENT AT (727) 834-3670 FOR REVIEW AND APPROVAL PRIOR TO EROSION CONTROL MEASURES AND PRE-INSPECTION MEETING.
- IF CONSTRUCTION HAVE COMMENCED, BUT NOT CONTINUED FOR A PERIOD OF 30 DAYS, ALL DISTURBED PORTIONS OF THE PARCEL SHALL BE PLANTED WITH GRASS OR GROUND COVER TO PREVENT EROSION AND ENCOURAGE SOIL STABILIZATION, ADEQUATE COVERAGE SO AS TO SUPPRESS FUGITIVE DUST SHALL BE ACHIEVED WITHIN 45 DAYS.
- PRIOR TO THE START OF ANY CLEARING OR GRUBBING OR ANY SOIL DISTURBANCE, CONTACT PASCO COUNTY STORMWATER MANAGEMENT AT (727) 834-3611 FOR SOIL EROSION AND SEDIMENT CONTROL PRE-INSPECTION MEETING.
- ALL DISTURBED AREAS IN F.D.O.T. R/W SHALL BE SODDED.
- ELEVATIONS SHOWN ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD-88).
- EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PER THE FLORIDA EROSION AND SEDIMENT CONTROL MANUAL, LATEST EDITION.

**LEGEND**

- PROPERTY BOUNDARY
- - - LANDSCAPE BUFFER
- - - BUILDING SETBACK
- PHASE LINE
- FENCE (SEE PLANS BY OTHERS)
- LIGHT-DUTY ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
- HEAVY-DUTY ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
- PLATHE ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
- DECUBELLIS ASPHALT PAVEMENT (SEE SECTION ON SHEET 11)
- CONCRETE (SEE SECTION ON SHEET 11)
- FDOT INDEX NO. 522-001
- LANDSCAPE AREA
- ASPHALT RESTORATION (SEE SECTION ON SHEET 11)
- EXISTING ASPHALT
- EXISTING CONCRETE
- TRANSFORMER PAD
- SILT FENCE
- ⊗ INDICATES INSTALL SOIL TRACKING PREVENTION DEVICE (STPD) PER FLORIDA EROSION AND SEDIMENT CONTROL MANUAL, FIGURE V-19.



**SWPPP PLAN**  
**AVENTON LITTLE MULTIFAMILY**  
**PASCO COUNTY, FLORIDA**

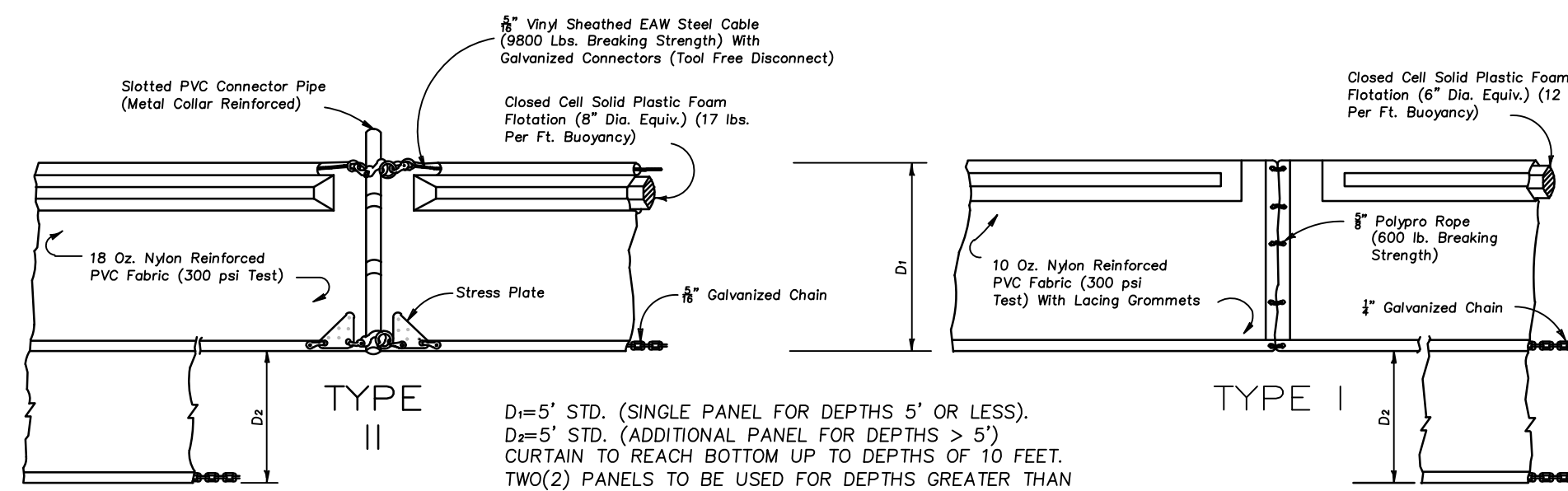
DRAWING SHALL UNLESS SPECIFICALLY NOTED & SIGNED BY REGISTERED PROFESSIONAL ENGINEER  
JAMES P. GIBSON, P.E. # 99332

**REGENCY**  
*Design & Engineering, Inc.*  
9400 RIVER CROSSING BOULEVARD, SUITE 102 NEW PORT RICHEY, FLORIDA 34655  
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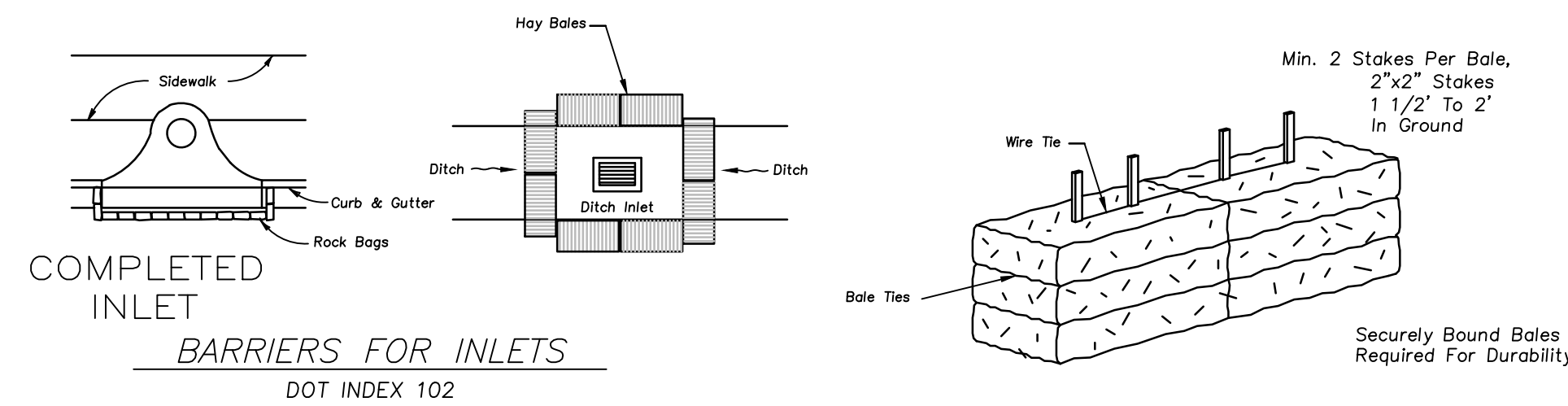
DATE	REV. BY	REV. NO.	REVISION

PLOT DATE/TIME: Monday, February 05, 2024 @ 1:29 PM  
 C:\Users\jgibson\OneDrive\Documents\Projects\Aventon Little Road Design and Permitting\Drawings\CADD\IT\_SWPPP.dwg

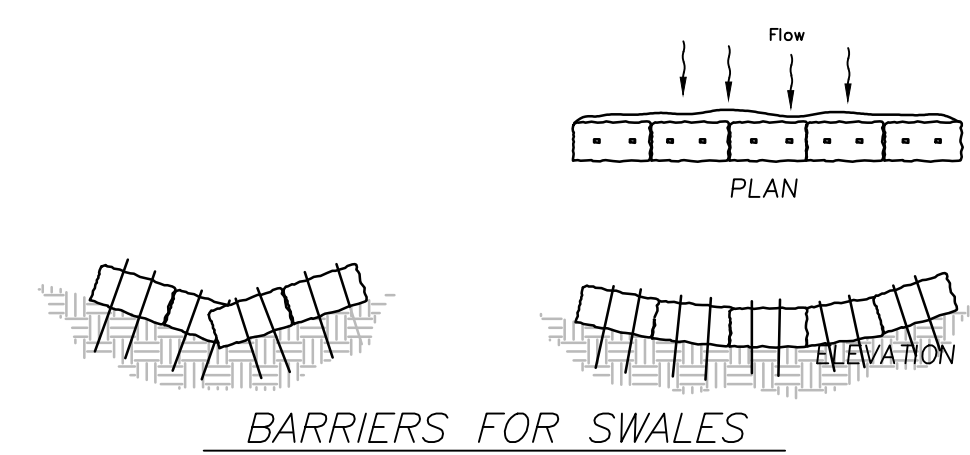


D=5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS).  
 D=5' STD. (ADDITIONAL PANEL FOR DEPTHS > 5')  
 CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET.  
 TWO(2) PANELS TO BE USED FOR DEPTHS GREATER THAN  
 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY  
 CALLED  
 FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.  
 NOTICE: COMPONENTS OF TYPED I AND II MAY BE SIMILAR OR IDENTICAL  
 TO PROPRIETARY DESIGNS. ANY INFRINGEMENT OF THE PROPRIETARY  
 RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF  
 THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS  
 APPROVED BY THE ENGINEER.

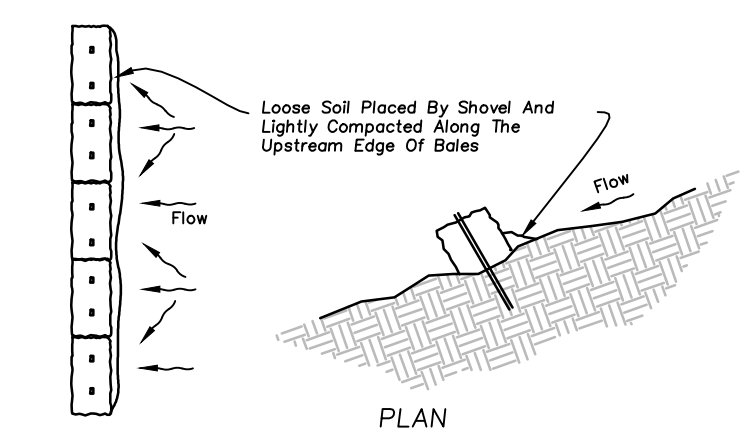
**FLOATING TURBIDITY BARRIERS**  
 INDEX 103



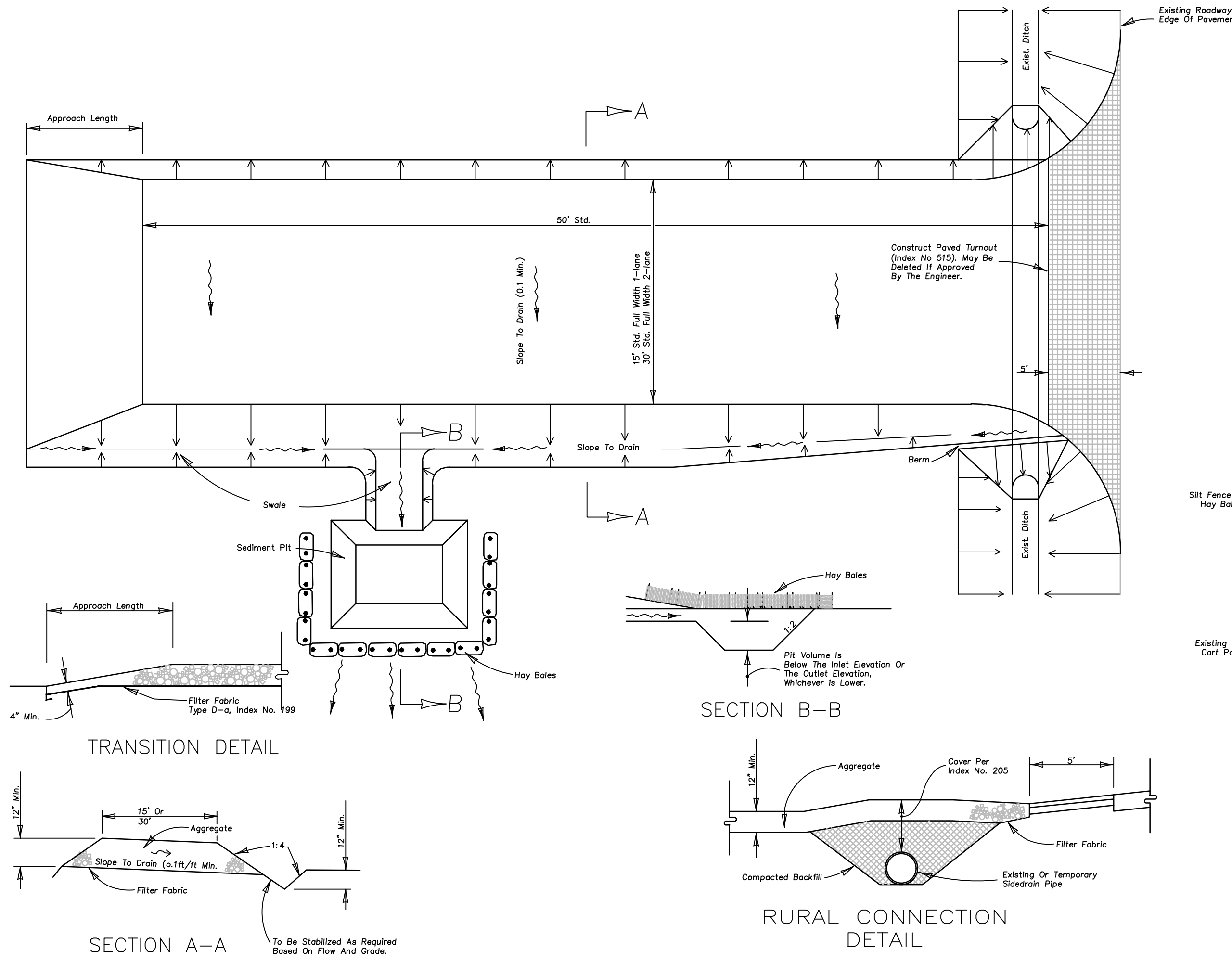
**COMPLETED INLET**  
**BARRIERS FOR INLETS**  
 DOT INDEX 102



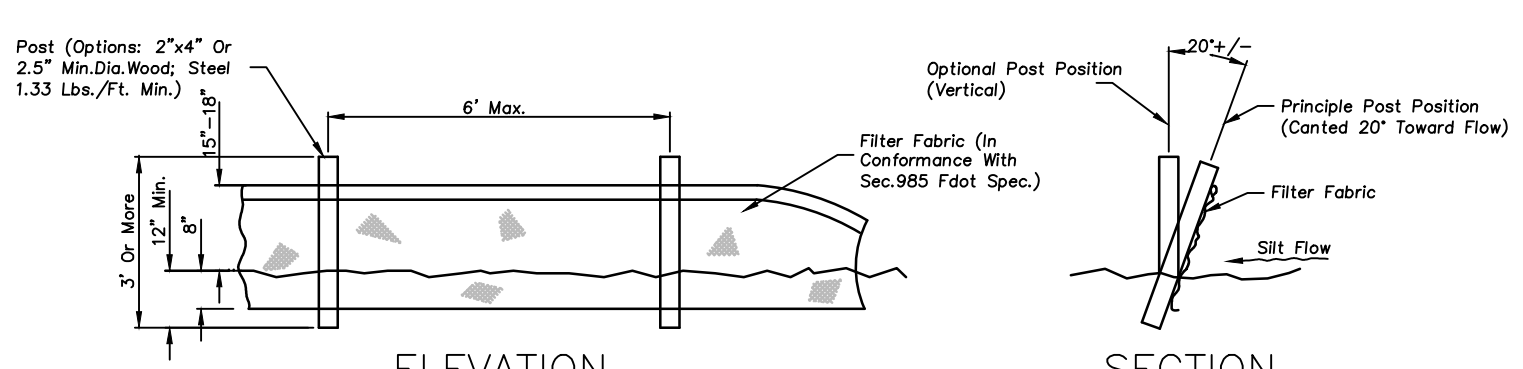
**BARRIERS FOR SWALES**



**BARRIERS FOR SLOPES**

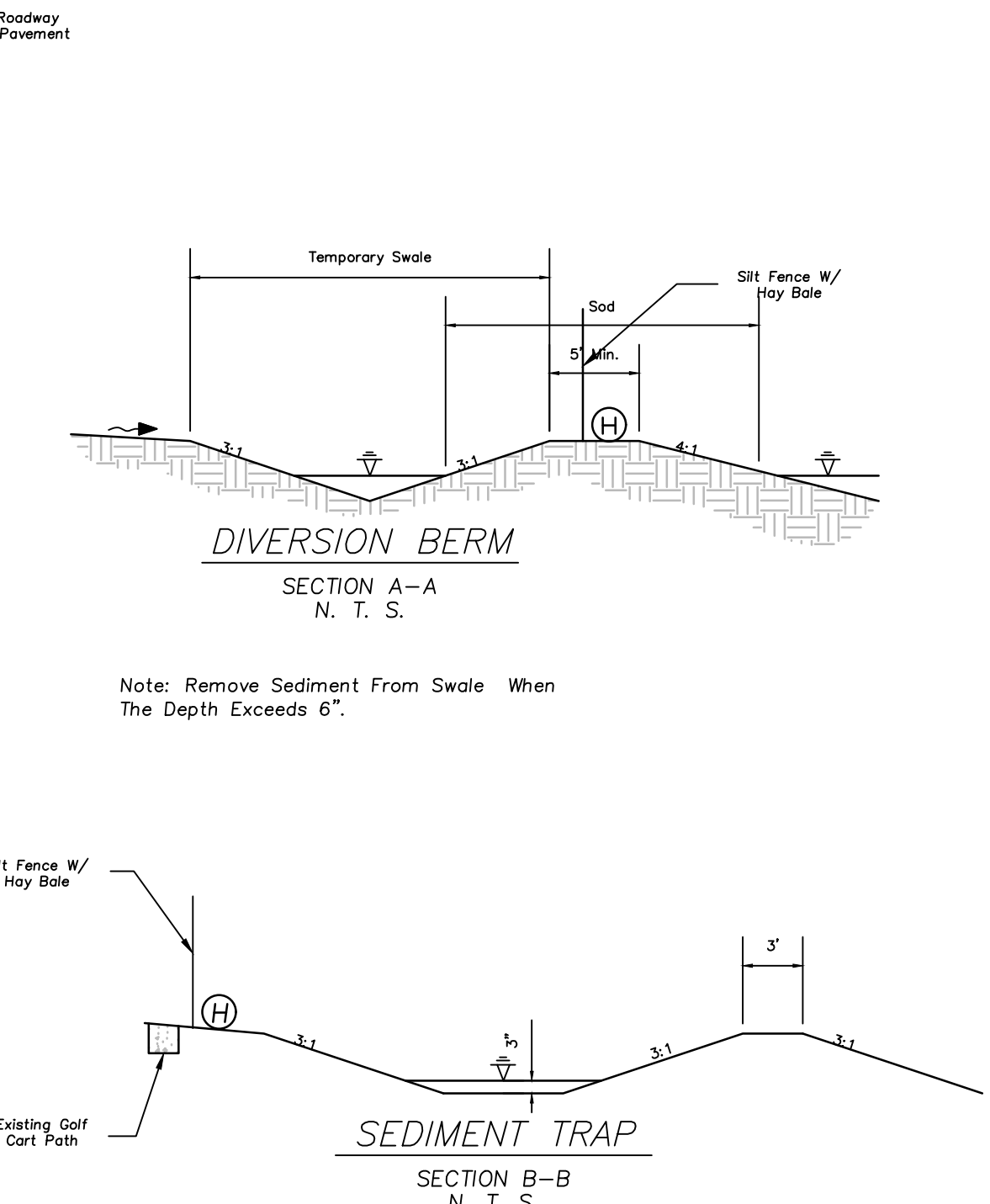


**SOIL TRACKING PREVENTION DEVICE**  
 DOT INDEX 106  
 N. T. S.



**TYPE III SILT FENCE**  
 DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM  
 ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED  
 AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT  
 BODIES OF WATER.

NOTES:  
 -FOR ADDITIONAL INFORMATION AND DETAILS, SEE F.D.O.T. INDEX NO.102.  
 -UNLESS SPECIFIED, HAY BARRIERS MAY BE USED IN LIEU OF SILT FENCES.  
 -ADDITIONAL POSTS AND RAILS MAY BE NECESSARY TO SECURE AND SUPPORT  
 BARRIERS.  
 -ADDITIONAL FENCE LENGTHS MAY BE REQUIRED BY THE COUNTY ENGINEER  
 OR BY REGULATORY AGENCIES.



**DIVERSION BERM**  
 SECTION A-A  
 N. T. S.  
 Note: Remove Sediment From Swale When  
 The Depth Exceeds 6".  
**SEDIMENT TRAP**  
 SECTION B-B  
 N. T. S.

- GENERAL NOTES:**
1. PROTECT FUTURE CURB INLETS SHOWN WITHIN PAVED AREAS (SEE SWPP PLAN SHEET). PROTECT THESE CURB INLETS WITH ROCK BAGS AS PER INDEX 102.
  2. PROTECT FUTURE GRATE INLETS WITH HAY BALES (SEE SWPP PLAN SHEET). THESE ARE INLETS PROPOSED IN NON-PAVED AREAS. PROTECT THESE INLETS WITH HAY BALES AS PER INDEX 102
  3. PROTECT WET AREAS SHOWN WITHIN STORMWATER PONDS (SEE SWPP PLAN SHEET). PROTECT THESE AREAS WITH 30 OF FLOATING TURBIDITY BARRIER AT EACH INFALL STRUCTURE (I.E. MES).

**SWPPP DETAILS**

**AVENTON LITTLE MULTIFAMILY  
 PASCO COUNTY, FLORIDA**

**REGENCY**  
 Design & Engineering, Inc.

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SHEET  
**23**

JAMES P. GRAYDON, P.E. # 99332

PLOT DATE/TIME: Monday, February 05, 2024 @ 1:09 AM  
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THE FOLLOWING INFORMATION IS INTENDED TO SATISFY THE PERMIT REQUIREMENTS FOR NPDES PER FAC 62-621 (STORMWATER POLLUTION PREVENTION PLAN) AND SWFMD FAC 40D, PART B BASIS OF REVIEW FOR 40D RULES, SECTION 2.8. (CONSTRUCTION SURFACE WATER MANAGEMENT PLAN). REFERENCES TO STORMWATER POLLUTION PREVENTION PLAN AND CONSTRUCTION SURFACE WATER MANAGEMENT PLAN SHALL BE INTERCHANGEABLE. THE "PLAN" INCLUDES STORMWATER MANAGEMENT EROSION/SETTLEMENT CONTROL INSTRUCTIONS, DETAILS, AND NOTES AS PRESENTED IN THE CONSTRUCTION PLAN SET.

**STORMWATER POLLUTION PREVENTION PLAN**

THE SWPPP SHALL BE COMPLETED PRIOR TO THE SUBMITTAL OF THE NOTICE OF INTENT (NOI) TO BE COVERED UNDER THE FDEP GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. THE SWPPP SHALL BE AMENDED WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON THE POTENTIAL FOR DISCHARGE OF POLLUTANTS TO SURFACE WATERS OF THE STATE OR MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4).

THE SWPPP ALSO SHALL BE AMENDED IF IT PROVES TO BE INEFFECTIVE IN SIGNIFICANTLY REDUCING POLLUTANTS FROM SOURCES IDENTIFIED IN PART V.D.1. OF THE PERMIT OR TO INDICATE ANY NEW CONTRACTOR AND/OR SUBCONTRACTOR THAT WILL IMPLEMENT ANY MEASURE OF THE SWPPP. ALL AMENDMENTS SHALL BE SIGNED, DATED, AND KEPT AS ATTACHMENTS TO THE ORIGINAL SWPPP.

**1. PROJECT NAME AND LOCATION**

AVENTON MULTIFAMILY

**2. SITE DESCRIPTION**

- A. DESCRIBE THE NATURE OF THE CONSTRUCTION ACTIVITY: CONSTRUCT A MULTIFAMILY APARTMENT COMPLEX.
- B. DESCRIBE THE INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES: THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSED A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

1. CLEARING AND GRUBBING, EARTHWORK, AND STORM SEWER CONSTRUCTION FOR THE OUTFALL FROM THE PONDS.
2. CLEARING AND GRUBBING, EARTHWORK FOR POND CONSTRUCTION.
3. CONSTRUCT PONDS FOR SEDIMENT COLLECTION.
4. STORM SEWER CONSTRUCTION. CONSTRUCT THE STORM DRAIN PIPE IN THE UPSTREAM DIRECTION.
5. EARTHWORK ASSOCIATED WITH ROADWAYS, AND CONSTRUCTION OF CURB AND GUTTER, SUBGRADE, BASE, PAVEMENT AND SIDEWALK.
6. COMPLETE SITE WORK.
7. STABILIZE THE SITE WITH APPROPRIATE SOD / SEED AND MULCH AS REQUIRED.
8. REMOVE EROSION CONTROL MEASURES PRIOR TO DEMOBILIZATION.

**C. TOTAL AREA OF THE SITE (ACRES):**

13.41 ACRES

**D. TOTAL AREA OF THE SITE TO BE DISTURBED (ACRES):**

13.41 ACRES

E. EXISTING DATA DESCRIBING THE SOIL OR QUALITY OF ANY STORMWATER DISCHARGE FROM THE SITE: THE SOILS SURVEY IS INCLUDED IN THE DRAINAGE REPORT. THE RESULTS OF THE SOIL BORINGS DONE IN THE PONDS ARE LOCATED IN THE SAME REPORTS. IN GENERAL, THE SOILS ARE FINE SANDS. THE SMALL PARTICLE SIZE WILL MAKE THE POTENTIAL FOR EROSION HIGH. THE PARTICLE TYPE CONTENT WILL STAY IN SUSPENSION FOR WEEKS. THIS WILL REQUIRE EFFORT TO FILTER RUNOFF PRIOR TO DISCHARGE.

**F. SITE MAP:**

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE KEY SHEET OF THE CONSTRUCTION PLANS.

**- DRAINAGE PATTERNS:**

THE DRAINAGE BASIN DIVIDES AND DISCHARGES TO THE PASCO MANAGEMENT FACILITY TO THE EAST (EITHER THROUGH THE NORTHEAST OR SOUTHEAST CORNER) OR THE LITTLE ROAD DETENTION POND TO THE SOUTH. UNDER DEVELOPED CONDITIONS, THE SITE WILL BE GRADED TO THE CONVEYANCE NETWORK AND RETAINED IN THE PROPOSED STORMWATER MANAGEMENT FACILITY IN THE CENTER OF THE PROJECT, WITH A CONTROLLED DISCHARGE TO THE SOUTHEAST CORNER OF THE PROPERTY, AT A RATE AT OR BELOW EXISTING CONDITIONS.

**- APPROXIMATE SLOPES:**

THE EXISTING SLOPES OF THE SITE ARE SUBTLE AND GENERATE RUNOFF IN THE DIRECTIONS DESCRIBED ABOVE. UNDER THE PROPOSED DEVELOPED CONDITIONS, THESE SLOPES REMAIN GENTLE AND DIRECT RUNOFF TO THE PROPOSED STORMWATER MANAGEMENT FACILITY.

**- AREAS OF SOIL DISTURBANCE:**

THE AREAS TO BE DISTURBED ARE INDICATED ON THE SWPPP AND CONSTRUCTION PLANS. ALSO, SEE THE POND DETAIL SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.

**- LOCATIONS OF TEMPORARY CONTROLS:**

THESE ARE SHOWN ON THE CONSTRUCTION PLAN SHEETS. THESE CONTROLS MAY REQUIRE REPLACEMENT THROUGHOUT THE PROJECT.

**- LOCATIONS OF PERMANENT CONTROLS:**

THE STORMWATER POND IS THE PRIMARY PERMANENT STORMWATER MANAGEMENT CONTROL. CROSS SECTIONS OF THIS FACILITY ARE PROVIDED IN THESE PLANS.

**- AREAS TO BE STABILIZED:**

TEMPORARY STABILIZATION PRACTICES ARE SHOWN IN THE SAME LOCATION AS THE TEMPORARY CONTROLS MENTIONED ABOVE. PERMANENT STABILIZATION IS SHOWN ON THE TYPICAL SECTION AND THE POND DETAIL.

**- SURFACE WATERS AND WETLAND IMPACTS:**

NOT APPLICABLE

**- AREAS NOT TO BE DISTURBED:**

AREAS OUTSIDE OF THE PROPOSED TEMPORARY CONTROLS MENTIONED ABOVE ARE TO REMAIN UNDISTURBED.

G. NORTHING/EASTING OF EACH DISCHARGE POINT AND NAME OF RECEIVING WATER OR MS4 OF EACH DISCHARGE POINT:

NUMBER	RECEIVING WATER	LATITUDE	LONGITUDE
①	PITHLACHASCOTEE RIVER	28° 15' 27.342"	82° 40' 10.297"

**3. CONTROLS**

DESCRIPTION OF APPROPRIATE CONTROLS, BMPS, AND MEASURES FOR EACH ACTIVITY LISTED IN ITEM 2B AS WELL AS TIME FRAMES IN WHICH CONTROLS WILL BE IMPLEMENTED:

THE FOLLOWING DISCUSSION DEFINES GENERAL GUIDELINES FOR THE SEQUENCE OF CONSTRUCTION AND THE USE OF STABILIZATION AND STRUCTURAL PRACTICES. THE CONTRACTOR IS ALSO RESPONSIBLE FOR MAINTAINING FIELD RECORDS OF THEIR SWPPP ACTIVITIES.

**A. TEMPORARY AND PERMANENT STABILIZATION PRACTICES:**

DURING CONSTRUCTION, THE CONTRACTOR WILL PROVIDE TEMPORARY STABILIZATION AS SOON AS PRACTICAL, BUT IN NO CASE SHALL THE TIME BE GREATER THAN SEVEN CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED, FOR AREAS WHICH HAVE BEEN CLEARED AND NOT REWORKED. THE ENTIRE DISTURBED PORTION OF THE PROJECT WILL BE STABILIZED UPON COMPLETION.

STABILIZATION PRACTICES TO BE IMPLEMENTED ARE INCLUDED IN THE CONSTRUCTION PLANS AND INCLUDE:

- TEMPORARY SODDING: INSTALL AT THE LIMITS OF PHASING IN ALL LOCATIONS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED AND THE LIKLIHOOD OF EROSION IS HIGH.
- TEMPORARY GRASSING: INSTALL IN ALL LOCATIONS WHERE CONSTRUCTION ACTIVITIES HAS TEMPORARILY STOPPED FOR A PERIOD OF 14 DAYS.
- PERMANENT PLANTING, SODDING AND SEEDING: ALL DISTURBED AREAS WILL ULTIMATELY RECIEVE PERMANENT SODDING OR SEEDING.

B. STRUCTURAL CONTROLS INTENDED TO DIVERT, STORE, RETAIN OR OTHERWISE LIMIT STORMWATER FLOW: STRUCTURAL CONTROLS SHALL BE INSTALLED PRIOR TO ANY EARTHWORK OR CONSTRUCTION ACTIVITY. CONTROLS TO BE IMPLEMENTED ARE NOTED IN THE CONSTRUCTION PLANS AND INCLUDE:

**- SILT FENCE:**

SILT FENCE SHALL BE USED ALONG THE LENGTH OF THE PROJECT AS WELL AS AROUND WETLANDS OR OTHER SURFACE WATERS WHERE THE EXISTING GROUND SLOPES AWAY FORM THE PROJECT OR WHERE THERE IS POTENTIAL FOR SEDIMENT TO BE DIRECTED OFFSITE. STOCKPILE AREAS SHALL INCLUDE SILT FENCE AROUND THE PERIMETER. SILT FENCE LOCATIONS ARE SHOWN IN THE CONSTRUCTION PLANS.

**- STAKED TURBIDITY BARRIERS:**

N/A

**- FLOATING TURBIDITY BARRIERS:**

N/A

C. TEMPORARY OR PERMANENT SEDIMENT BASINS FOR AREAS DISTURBING 10 ACRES OR MORE AT ONE TIME: SEE GRADING PLAN

D. PERMANENT STORMWATER MANAGEMENT CONTROLS TO BE INSTALLED DURING CONSTRUCTION PROCESS: AS INDIVIDUAL PHASES OF CONSTRUCTION ARE PERFORMED, PERMANENT CONTROL STRUCTURES WILL BE INSTALLED. THESE DEVICES WILL CONSIST OF CONCRETE WEIRS OR WEIR STRUCTURES WITH PIPE.

**E. POTENTIAL POLLUTANT CONTROLS:**

1) WASTE DISPOSAL: THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FIELD RECORDS OF THEIR SWPPP ACTIVITIES.

THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES. ALL FERTILIZER, HYDROCARBON, OR OTHER CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER. NO SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS SHALL BE DISCHARGED TO WETLANDS OR BURIED ON SITE.

**2) OFFSITE VEHICLE TRACKING:**

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FIELD RECORDS OF THEIR SWPPP ACTIVITIES.

THE CONTRACTOR MAY, AT THEIR SOLE DISCRETION, SELECT A CONTROL BY THE FOLLOWING METHODS:

- LOADED HAUL TRUCKS TO BE COVERED BY A TARPAULIN
- EXCESS DIRT ON ROAD SHALL BE REMOVED DAILY. THE CONTRACTOR WILL PROVIDE POLLUTION CONTROL BY IMPLEMENTING DUST CONTROL WITH WATER APPLICATION DURING THE DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.
- SOIL TRACKING PREVENTION DEVICE (SEE SWPPP PLAN SHEETS)

**3) APPLICATION RATES OF HERBICIDES/PESTICIDES USED AT CONSTRUCTION SITE:**

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FIELD RECORDS OF THEIR SWPPP ACTIVITIES.

**4) STORAGE, APPLICATION, GENERATION, MIGRATION OF ALL TOXIC SUBSTANCES:**

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FIELD RECORDS OF THEIR SWPPP ACTIVITIES.

**5) OTHER:**

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FIELD RECORDS OF THEIR SWPPP ACTIVITIES.

**F. SOURCES OF NON-STORMWATER DISCHARGES:**

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FIELD RECORDS OF THEIR SWPPP ACTIVITIES.

**4. MAINTENANCE PLAN FOR ALL CONTROLS:**

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FIELD RECORDS OF THEIR SWPPP ACTIVITIES.

THE CONTRACTOR WILL BE RESPONSIBLE FOR DAILY INSPECTION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES THROUGHOUT THE CONSTRUCTION PHASE OF THE PROJECT AS WELL AS REMOVAL OF EROSION AND SEDIMENT CONTROL DEVICES WHEN NO LONGER NECESSARY.

THE FOLLOWING PRACTICES WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS: THE CONTRACTOR SHALL MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD DAILY RAINFALL. ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE CONTRACTOR.

ALL DEVICES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN A 24 HOURS OF THE INSPECTION.

**STRUCTURAL PRACTICES CONTROLS:**

BUILT-UP SEDIMENT WILL BE REMOVED FROM SILT FENCE AND STAKED TURBIDITY BARRIERS WHEN IT HAS REACHED 1/3 THE HEIGHT OF THE FENCE. A PROPOSED REPLACEMENT INTERVAL IS 1 YEAR.

TEMPORARY AND PERMANENT SEEDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH. SOIL TRACKING PREVENTION DEVICES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

HAY BALES SHALL BE REPLACED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE. A PROPOSED REPLACEMENT INTERVAL IS 3 MONTHS.

**5. INSPECTION AND DOCUMENTATION PROCEDURES:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING THE WEEKLY INSPECTION REPORT FORM AND MAINTAINING DOCUMENTATION FOR THREE YEARS FOLLOWING FINAL STABILIZATION. THE CONTRACTOR SHALL SUBMIT COPIES OF THESE REPORTS TO THE OWNER OR AUTHORIZED REPRESENTATIVES PRIOR TO FINAL PAYMENT FOR WORK SHOWN WITHIN THESE PLANS. ADDITIONAL INSPECTION AND DOCUMENTATION MUST BE COMPLETED WITHIN 24 HOURS AFTER ANY 0.50-INCH RAINFALL EVENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EACH MONTH.

**THE FOLLOWING ITEMS NEED TO BE INSPECTED:**

- POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.
- POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM SEWER SYSTEMS.
- DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN STABILIZED.
- AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- STRUCTURAL CONTROLS.
- STORMWATER MANAGEMENT CONTROLS.
- LOCATIONS WERE VEHICLES ENTER AND EXIT THE SITE.

THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE 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, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES AS APPROVED BY THE ENGINEER.

AS REQUIRED UNDER FAC 40D, PART B, SECTION 2.8.1.(C) THE OWNER/PERMITTEE "SHALL ENSURE THAT THE SURFACE WATER AND THE STORMWATER MANAGEMENT MEASURES PROPOSED IN THE PLAN ARE EFFECTIVELY IMPLEMENTED UPON COMPLETION OF THE PROJECT OR UNTIL THE PERMANENT SURFACE WATER MANAGEMENT SYSTEM IS OPERATIONAL". THE "PLAN" INCLUDES NOTES, DETAILS AND INSTRUCTIONS FOR STORMWATER MANAGEMENT PRESENTED THROUGH OUT THE PLAN SET. THE OWNER/PERMITTEE HEREBY AGREES TO COMPLY WITH ALL STORMWATER MANAGEMENT ITEMS CONTAINED WITHIN THE PLANS AS SUBMITTED FOR DISTRICT APPROVAL.

ALL CONTRACTORS OR SUBCONTRACTORS THAT WILL IMPLEMENT EACH MEASURE MUST ACCEPT 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."

AS REQUIRED UNDER FAC 40D, PART B, SECTION 2.8.1.(C) THE OWNER/PERMITTEE OR AUTHORIZED AGENT "SHALL ENSURE THAT THE SURFACE WATER AND STORMWATER MANAGEMENT MEASURES PROPOSED IN THE 'PLAN' ARE EFFECTIVELY IMPLEMENTED UNTIL COMPLETION OF THE PROJECT OR UNTIL THE PERMANENT INSTRUCTIONS FOR STORMWATER MANAGEMENT PRESENTED THROUGH OUT THE PLAN SET.

\_\_\_\_\_ SIGN NAME (APPLICANT / PERMITTEE / AGENT FOR SWFMD PERMIT)

\_\_\_\_\_ PRINT NAME (APPLICANT / PERMITTEE / AGENT OFR SWFMD PERMIT)

COMPLIANCE WITH NPDES GENERAL PERMIT CONDITIONS FOR CONSTRUCTION SITES SHALL BE THE CONTRACTOR'S RESPONSIBILITY INCLUDING SUBMITTAL OF THE NPDES NOTICES OF INTENT (NOI) AND TERMINATION (NOT) TO FDEP IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS.

ALL CONTRACTORS OR SUBCONTRACTORS THAT WILL IMPLEMENT EACH MEASURE MUST ACCEPT 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."

\_\_\_\_\_ PRINT NAME CONTRACTOR--PERMITTEE FOR NPDES PERMIT

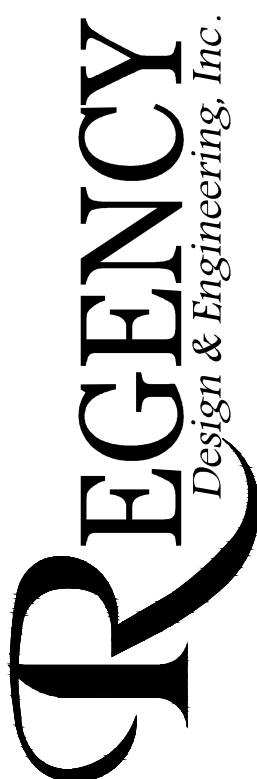
\_\_\_\_\_ SIGN NAME CONTRACTOR--PERMITTEE FOR NPDES PERMIT

**SUBCONTRACTORS**

_____	PRINT NAME (SUBCONTRACTOR)	_____	PRINT NAME (SUBCONTRACTOR)
_____	SIGN NAME (SUBCONTRACTOR)	_____	SIGN NAME (SUBCONTRACTOR)
_____	PRINT NAME (SUBCONTRACTOR)	_____	PRINT NAME (SUBCONTRACTOR)
_____	SIGN NAME (SUBCONTRACTOR)	_____	SIGN NAME (SUBCONTRACTOR)

**SWPPP NOTES**

AVENTON LITTLE MULTIFAMILY  
PASCO COUNTY, FLORIDA



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DATE	REV. BY	REV. NO.	REVISION

SHEET  
**24**