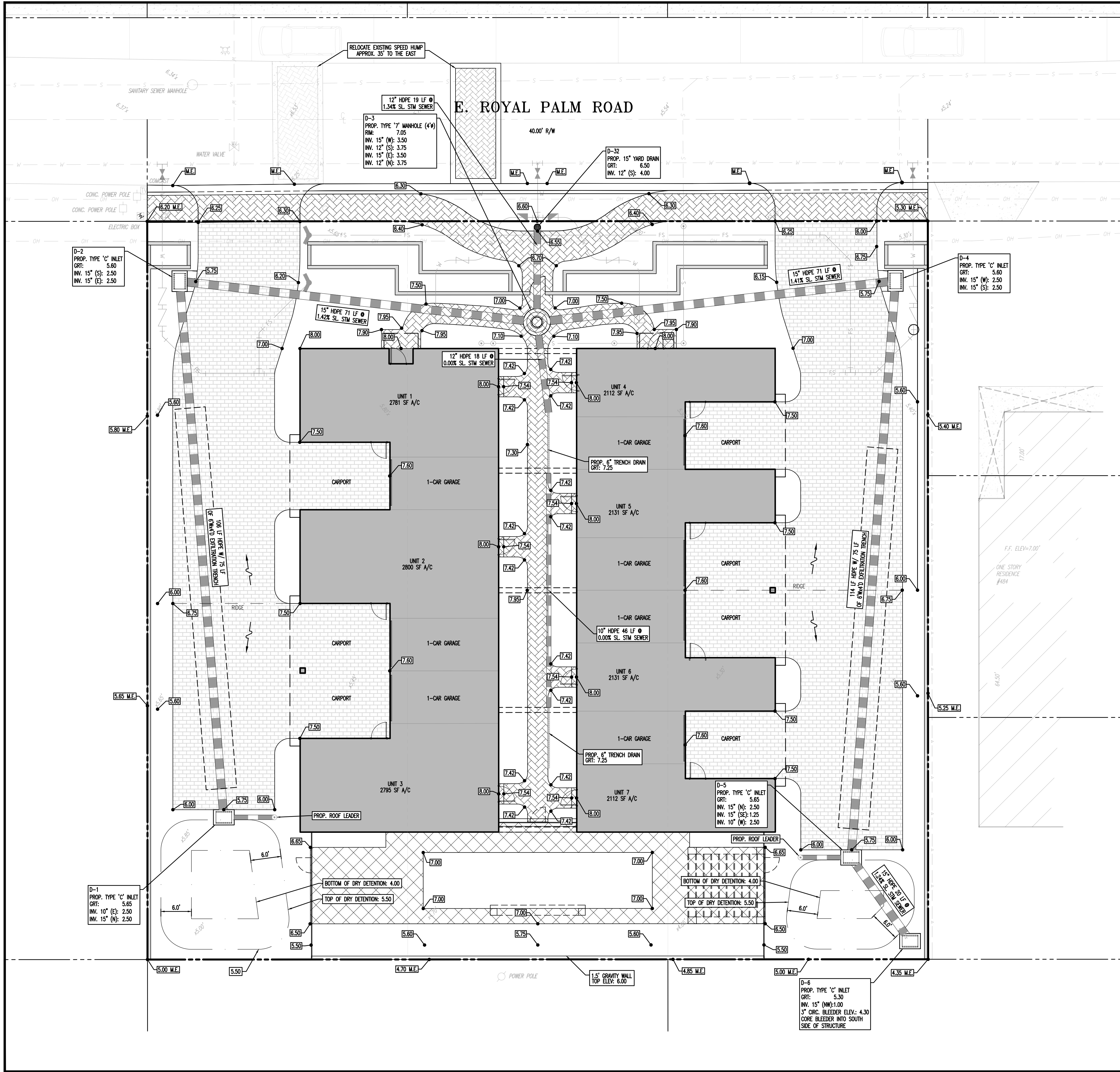
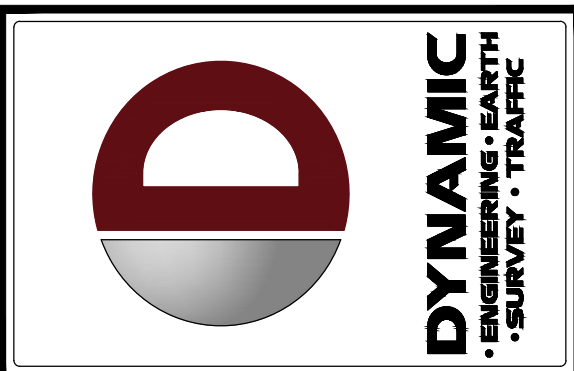


Plotted: 11/22/24 - 6:39 PM, By: kkonius
File: F:\DEPC PROJECTS\4477 Investments Limited\24-02438 Boca Raton - 450 and 468 East Royal Palm Dwg\Entitlements\04477\240243802.dwg, ----> C3.00 PAVING GRADING & DRAINAGE PLAN



PAVING, GRADING & DRAINAGE NOTES

1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL, COUNTY OR FOOT REQUIREMENTS.
2. ALL ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88).
3. ELEVATIONS ARE BASED ON BOUNDARY SURVEY PROVIDED BY BASELINE LAND SURVEY, LLC DATED 11/08/19.
4. THE CROSS SLOPE ON ADA ACCESSIBLE ROUTES SHALL NOT EXCEED 2.0% THE LONGITUDINAL SLOPE ON ADA ACCESSIBLE ROUTES (NOT INCLUDING RAMP) SHALL NOT EXCEED 5.0%. THE LONGITUDINAL SLOPE FOR RAMP SHALL NOT EXCEED 10:12H (8.3%). ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2.0% IN ANY DIRECTION (INCLUDING DIAGONAL).
5. ALL CATCH BASINS AND DRAINAGE COLLECTION STRUCTURES SHALL BE DESIGNED WITH AN EIGHTEEN INCH (18") VERTICAL SLUMP FROM THE INVERT ELEVATION (OR BOTTOM OF BAFFLE) TO THE BOTTOM OF THE STRUCTURE. IN ADDITION, A TWELVE INCH (12") DIAMETER OPEN SUMP, FILLED WITH WASHED GRADE ROCK, NO LARGER THAN ONE AND ONE HALF INCHES (1 1/2") SHALL BE PLACED IN THE BASE OF THE STRUCTURE.
6. DRAINAGE STRUCTURES SHALL BE CONSTRUCTED USING FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD (FDOT) AND/OR U.S. FOUNDARY (USF) PRODUCTS AS SPECIFIED OR APPROVED EQUAL. ALL STORM DRAINAGE STRUCTURES MUST COMPLY WITH JURISDICTIONAL AGENCY DETAILS AND REGULATIONS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF STRUCTURES AND COMMENCEMENT OF CONSTRUCTION.
7. ROOF DRAIN CONNECTIONS TO DRAINAGE PIPE SHALL BE AS FOLLOWS:
 - a. FOR ADS N-12 CORRUGATED POLYETHYLENE DRAINAGE PIPE USE ADS DUAL WALL FABRICATED REDUCING SADDLE TEE 4" - 24" DIAMETER.
 - b. FOR ROP DRAINAGE PIPE MAKE CONNECTION PER FDOT INDEX 430-001, CONCRETE COLLAR FOR JOINING MAINLINE PIPE AND STUB PIPE DETAIL.
 - c. NOTIFY ENGINEER FOR CONNECTION METHOD TO STEEL PIPE.
8. STORM DRAIN PIPE SHALL BE AS FOLLOWS:
 - a. ROP CLASS III PER ASTM C-76
 - b. ALUMINUMED STEEL TYPE 2 ULTRA FLO
 - c. 48" Ø AND SMALLER SHALL BE 3/8" X 3/8" CORRUGATION
 - d. 16 GA WITH A MINIMUM THICKNESS OF 0.064
 - e. 54" Ø AND LARGER SHALL BE 3/4" X 3/4" CORRUGATION
 - f. 14 GA WITH A MINIMUM THICKNESS OF 0.075
 - g. CORRUGATED POLYETHYLENE PIPE PER ASTM M294 JOINTS SHALL BE WATER TIGHT
 - h. ANY STORM PIPE USED MUST BE APPROVED BY LOCAL AUTHORITIES. CONTRACTOR SHALL SELECT THE MOST ECONOMICAL PRODUCT.
9. CONTRACTOR SHALL CLEAN ALL PROPOSED DRAINAGE STRUCTURES AND PIPES UPON COMPLETION OF CONSTRUCTION.
10. PROPOSED ELEVATIONS OF CURB REPRESENT FINISHED TOP OF SOD/GRASS OR ANY OTHER LANDSCAPING MATERIAL.
11. PROPOSED ELEVATIONS IN ALL PERVIOUS AREAS REPRESENT FINISHED TOP OF SOD/GRASS OR ANY OTHER LANDSCAPING MATERIAL.
12. ALL DRAINAGE STRUCTURES SHALL CONFORM TO THE LATEST FDOT INDEX STANDARDS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
13. ALL STRIPING IS TO BE PAINTED IN ACCORDANCE WITH FDOT REQUIREMENTS UNLESS OTHERWISE NOTED.
14. CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE BOXES, ETC. TO PROPOSED GRADE IN VICINITY OF PAVEMENT RECONSTRUCTION AND GRADE CHANGES.
15. INLETS CONSTRUCTED ON-SITE IN PAVEMENT OR GRASS AREAS SHALL BE USF (OR APPROVED EQUAL) FRAME 4132 AND GRATE 6429 UNLESS OTHERWISE SPECIFIED.
16. STORM MANHOLES CONSTRUCTED ON-SITE SHALL BE USF (OR APPROVED EQUAL) #170 RING WITH DOUBLE COVER.
17. GRATES IN PAVED AREAS SHALL BE SET AT GRADE. GRATES IN GRASS AREAS SHALL BE SET 0.15 FEET ABOVE GRADE.
18. ALL PAVEMENT MARKING AND STRIPING, EXCLUDING PARKING STALL STRIPING, SHALL BE INSTALLED WITH THERMOPLASTIC MATERIALS. ALSO, PAVER BRICKS OF APPROPRIATE COLOR SHALL BE USED ON PAVER BRICK AREAS IN LIEU OF PAINT OR THERMOPLASTIC MATERIAL.
19. ALL EXISTING AND PROPOSED RM ELEVATIONS SHALL BE SET TO FINISHED SURFACE GRADE, UNLESS OTHERWISE SPECIFICALLY NOTED ON THE PLAN. THIS SHALL INCLUDE ALL UTILITY, SEWER, WATER AND DRAINAGE STRUCTURES, MANHOLES, INLETS, VALVES, AND OTHER APPURTENANCES.
20. CHLORINATED DISCHARGES WILL NOT BE DIRECTLY CONNECTED TO SURFACE WATERS OR THE CITY'S SANITARY OR STORM SEWER SYSTEM.



REV	DATE	COMMENTS	BY
1	10/08/24	CITY COMMENTS	KAK
2	11/20/24	CITY COMMENTS	KAK

THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION	DESIGNED BY: _____ CHECKED BY: _____ SEAL: _____ DATE: _____	PROJECT: INVESTMENTS LIMITED PROPOSED RESIDENTIAL TOWNHOMES 450 EAST ROYAL PALM ROAD BOCA RATON, PALM BEACH COUNTY, FLORIDA
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MICHAEL D. MILES
PROFESSIONAL ENGINEER
FLORIDA LICENSE NO. 81313
DATE: _____

811
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PAVING, GRADING & DRAINAGE PLAN

SCALE: (H) AS NOTED	DATE: 07/09/2024
PROJECT NO: 4477-24-02438	

SHEET NO: C3.00	Rev. #: 2
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MICHAEL D. MILES STATE OF FLORIDA PROFESSIONAL ENGINEER LICENSE NO. 81313. THIS TERM HAS BEEN DIGITALLY SIGNED AND SEALED BY MICHAEL D. MILES, P.E. ON 11/22/2024. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED VALID UNLESS THEY ARE ACCOMPANIED BY THE ELECTRONIC COPIES SIGNED AND SEALED BY MICHAEL D. MILES, P.E. ON 11/22/2024.