SITE PLAN
FOR
WMG - CLERMONT SR 50 DEVELOPMENT
CLERMONT, FLORIDA
PARCEL ID: 25-22-26-1400-000-00900

CITY OF CLERMONT PROJECT NUMBER: SITE2309-0005

LEGAL DESCRIPTION

LOT 9 OF PLAZA COLLINA, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 76, PAGE(S) 53, OF THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA. 1

UTILITY PROVIDERS

WATER/ SEWER
CITY OF CLERMONT
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CONTACT: BILL MCCLOUD
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FIBER
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CONTACT: NETWORK RELATIONS
PHONE: 877-366-8344 EXT. 2

POWER
DUKE ENERGY
PHONE: 407-629-1010

CABLE, FIBER
CHARTER COMMUNICATIONS
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PROJECT TEAM

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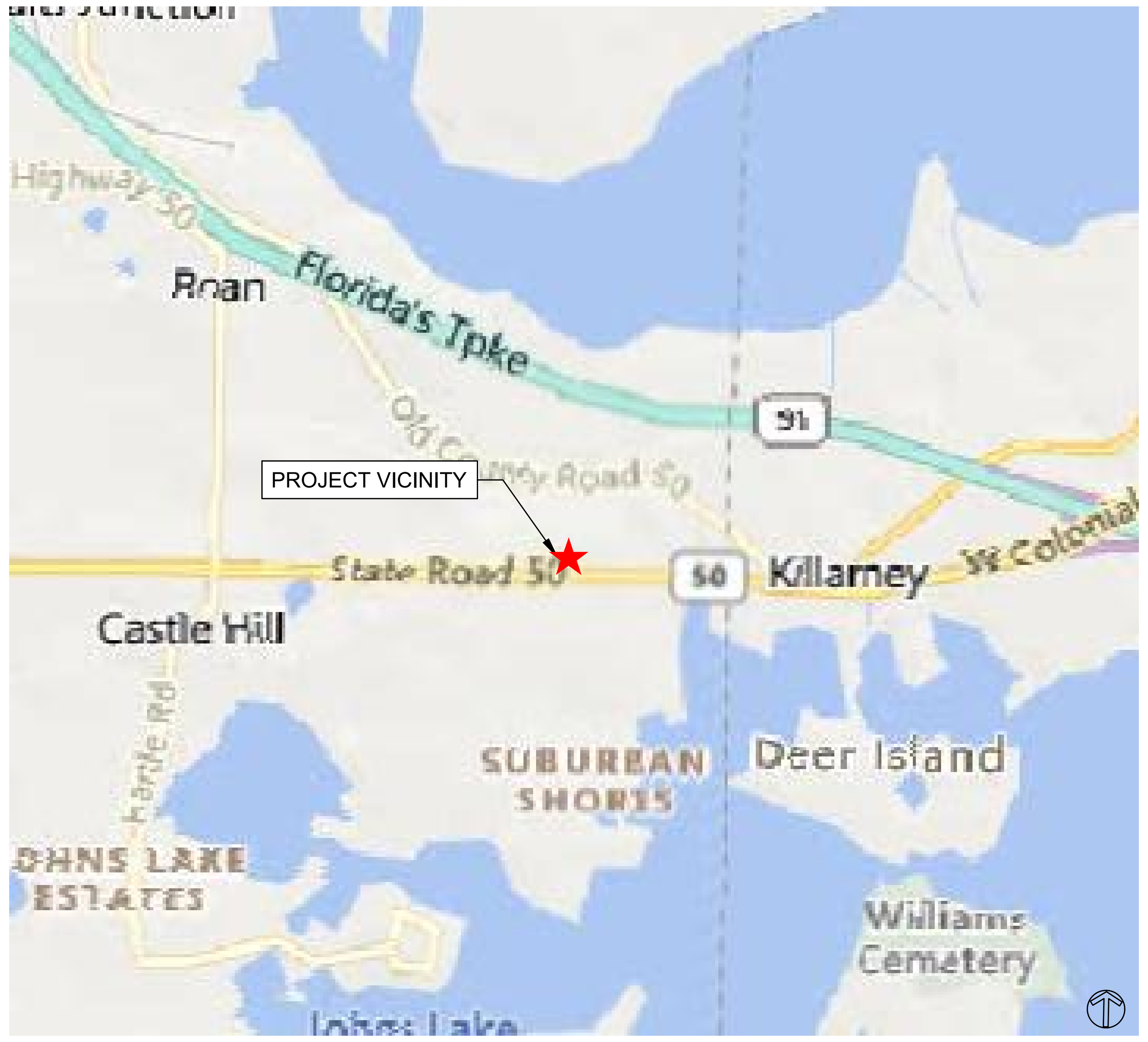
NOTES

1. PROPOSED DEVELOPMENT IS IN COMPLIANCE WITH THE FLORIDA FIRE PREVENTION CODE, 7TH EDITION.
2. SITE SHALL COMPLY WITH THE FLORIDA BUILDING CODE 7TH EDITION (2020) ACCESSIBILITY. 1
3. SEPARATE PERMITS ARE REQUIRED FOR THE FOLLOWING IF APPLICABLE: CONSTRUCTION TRAILERS, SALES CENTERS, DUMPSTER ENCLOSURES, LIFT STATIONS, SWIMMING POOLS, PLAYGROUND EQUIPMENT, WALL SIGNS, MONUMENT SIGNS, RETAINING/LANDSCAPE WALLS, ENTRY WALL FEATURES, SITE LIGHTING, GENERATORS, LIGHTNING PROTECTION SYSTEMS, BULK OXYGEN STORAGE TANKS, FENCES, AWNINGS, GREASE TRAPS, PAINT SPRAY BOOTHS, UNDERGROUND/ ABOVE GROUND FUEL STORAGE TANKS, ETC.
4. FDOT STANDARD PLANS INDEX DESIGNATIONS (FY 2023-2024) ARE USED FOR ALL REFERENCES TO FDOT DESIGN STANDARDS THROUGHOUT THE PLAN SET.
5. VERTICAL CONTROL DATUM FOR THIS PLAN SET IS NAVD1988.
6. FINAL SITE SHALL BE GRADED TO PROVIDE PEDESTRIAN AND PARKING ADA ACCESSIBILITY. 1



LOCATION / VICINITY MAP
SCALE: 1" = 2000'

AERIAL MAP
SCALE: 1" = 500'

SHEET INDEX

SHEET	TITLE	REV	DATE
C0.0	COVER SHEET	1	12/4/2023
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C0.3	CITY OF CLERMONT GENERAL NOTES	1	12/4/2023
C0.4	DEMOLITION AND EROSION CONTROL PLAN	1	12/4/2023
C0.5	DEMOLITION AND EROSION CONTROL DETAILS	1	12/4/2023
C1.0	OVERALL SITE PLAN	2	1/19/2024
C1.1	SITE PLAN	2	1/19/2024
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C2.0	PAVING, GRADING AND DRAINAGE PLAN	1	12/4/2023
C2.1	ADA PLAN	1	12/4/2023
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C4.0	SITE DETAILS	1	12/4/2023
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LS1.0	OVERALL LANDSCAPE PLAN	1	12/4/2023
LS1.1	LANDSCAPE PLAN	1	12/4/2023
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PLANS BY OTHERS

SHEET	TITLE	REV	DATE
IR-1	IRRIGATION PLAN		
IR-2	IRRIGATION SCHEDULES		
IR-3	IRRIGATION DETAILS		
IR-4	IRRIGATION SPECIFICATIONS		

PREPARED FOR:

WMGDEVELOPMENT

PREPARED BY:

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ISSUE NO.	DATE:	
2	01/09/2024	CITY OF CLERMONT COMMENTS
1	10/09/2023	CITY OF CLERMONT COMMENTS

STATUS: CONSTRUCTION PLANS

REV NO:	DATE:	
2	01/19/2024	REVISIONS PER CITY OF CLERMONT COMMENTS
1	12/05/2023	REVISIONS PER CITY OF CLERMONT COMMENTS

COVER SHEET

WMG - CLERMONT SR 50
CLERMONT, FLORIDA

CAUTION
0 1/2 1
IF THIS SCALE BAR DOES NOT MEASURE 1" THE DOCUMENT IS NOT TO SCALE

ALEX T. GOETZ
LICENSE
No. 86837
STATE OF
01/19/2024
FLORIDA
PROFESSIONAL ENGINEER

ALEX T. GOETZ, P.E.
FLORIDA P.E. #86837

JOB NO: 23-0065.000
DESIGN: M.P.
DRAWN: M.N.
APPROVED: A.G.
SHEET NO: C0.0
REV: 1

P:\23-0065.000 WMG - CLERMONT SR 50\DESIGN\PLANS\CONSTRUCTION\C0.0_COVER_SHEET_WMG50.DWG 1/19/2024

GENERAL CONSTRUCTION NOTES:

1. ALL ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88) AS SHOWN ON EACH SHEET.

2. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THIS WORK PRIOR TO CONSTRUCTION.

3. THE CONTRACTOR SHALL CHECK THE PLANS FOR CONFLICTS AND DISCREPANCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES BEFORE PERFORMING ANY WORK IN THE AFFECTED AREA.

4. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE VARIOUS UTILITY COMPANIES. IN ORDER TO PERMIT MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN ADVANCE OF CONSTRUCTION, CALL "SUNSHINE" AT 1-800-432-4770. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITIES NOT ONLY THOSE INCLUDED IN THE "SUNSHINE" PROGRAM.

5. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES (ABOVE OR BELOW GROUND) THAT MAY OCCUR AS A RESULT OF THE WORK PREFORMED BY THE CONTRACTOR.

6. ALL UNDERGROUND UTILITIES MUST BE IN PLACE AND TESTED OR INSPECTED PRIOR TO BASE AND SURFACE CONSTRUCTION.

7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY INSTRUCTION.

8. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE GOVERNING MUNICIPALITY, THE UTILITY PROVIDER, FDOT, AND WATER MANAGEMENT DISTRICT AS APPLICABLE BY JURISDICTION.

9. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE OWNER'S ENGINEER, SHOP DRAWINGS ON ALL CIVIL SITE WORK MATERIAL WHICH INCLUDES BUT IS NOT LIMITED TO: PRECAST STRUCTURES, UTILITY PIPING, UTILITY ASSEMBLIES, CONCRETE WORK, ASPHALT MIX, STRIPING, SIGNAGE, ETC. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. ALL SHOP DRAWINGS ARE TO BE REVIEWED AND APPROVED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE OWNER'S ENGINEER.

10. AT LEAST FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND APPROPRIATE AGENCIES AND SUPPLY THEM WITH ALL REQUIRED SHOP DRAWINGS, THE CONTRACTOR'S NAME, STARTING DATE, PROJECTED SCHEDULE AND OTHER INFORMATION AS REQUIRED. ANY WORK PERFORMED PRIOR TO NOTIFYING THE ENGINEER, OR WITHOUT AGENCY INSPECTORS PRESENT, MAY BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

11. WORK PREFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTORS AND UTILITY COMPANIES.

12. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. ADDITIONAL COSTS ARE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION IS TO BE ALLOWED.

13. ALL DISTURBED AREAS WHICH ARE NOT TO BE SODDED, ARE TO BE SEEDED AND MULCHED TO DOT STANDARDS AND MAINTAINED UNTIL A SATISFACTORY STAND OF GRASS ACCEPTABLE TO THE REGULATORY AGENCY AND ENGINEER OF RECORD, HAVE BEEN OBTAINED. ANY WASHOUT, REGRADING, RESEEDING AND GRASSING WORK, AND OTHER EROSION WORK REQUIRED WILL BE PERFORMED BY THE CONTRACTOR, UNTIL THE SYSTEM IS ACCEPTED FOR MAINTENANCE BY THE REGULATORY AGENCY AND ENGINEER OF RECORD.

14. THE CONTRACTOR SHALL LOCATE AND FLAG ALL PROPERTY CORNERS PRIOR TO FINAL ENGINEERING INSPECTION AND CERTIFICATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE PROPERTY CORNERS, WHICH HAVE BEEN LOST DURING CONSTRUCTION, RE-ESTABLISHED BY A PROFESSIONAL LAND SURVEYOR.

15. THE CONTRACTOR IS TO REVIEW THE SOIL REPORTS AND BORINGS PRIOR TO BIDDING THE PROJECT AND COMMENCING CONSTRUCTION..

16. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS AND METHODS FOR CONSTRUCTION SITE SAFETY.

17. ALL SODDING, SEEDING AND MULCHING SHALL INCLUDE WATERING AND FERTILIZATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE AREAS UNTIL THE PROJECT IS COMPLETED AND ACCEPTED BY THE OWNER.

18. THE CONTRACTOR SHALL GIVE THE OWNER'S REPRESENTATIVE A MINIMUM OF 72 HOURS NOTICE PRIOR TO CONDUCTING FIELD TESTS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR NOTIFYING AND ARRANGING FOR INSPECTIONS.

19. THE CONTRACTOR SHALL MAINTAIN, AT THE JOBSITE, A RECORD COPY OF CONSTRUCTION DRAWINGS AND SPECIFICATIONS ON WHICH ALL FIELD CHANGES ARE TO BE SHOWN. THESE 'AS-BUILT' DOCUMENTS ARE TO BE MADE AVAILABLE TO THE OWNER/ENGINEER DURING CONSTRUCTION AND SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE UPON COMPLETION OF THE PROJECT.

20. THE CONTRACTOR IS ADVISED TO VERIFY AND LOCATE ALL HORIZONTAL AND VERTICAL CONTROL POINTS PRIOR TO CONSTRUCTION, BRING ANY LAYOUT DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE ENGINEER.

21. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ALL TREES AND OTHER VEGETATION OUTSIDE THE LIMITS OF CONSTRUCTION.

22. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TRASH AND RUBBLE FROM THE SITE.

23. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF APPROVED CONSTRUCTION PLANS ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.

24. THE CONTRACTOR SHALL OBTAIN FROM THE OWNER, REVIEW AND MAINTAIN A COPY OF ALL REQUIRED PERMITS FOR THE PROJECT, COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION ON THE CONSTRUCTION SITE.

25. THE CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL REPORT PREPARED BY TERRACON CONSULTANTS, INC., DATED JULY 17 2023. CONTRACTOR SHALL REVIEW & FAMILIARIZE HIMSELF WITH, AND ADHERE TO THE RECOMMENDATIONS INCLUDED THEREIN.

26. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CLEARLY DESIGNATE THE LIMITS OF CONSTRUCTION ON SITE. THE CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE THE LIMITS OF CONSTRUCTION.

27. ALL WORK AND ALL MATERIALS FURNISHED SHALL BE IN CONFORMITY WITH THE LINES, GRADES, GRADING SECTIONS, CROSS SECTIONS, DIMENSIONS, MATERIAL REQUIREMENTS, AND TESTING REQUIREMENTS THAT ARE SPECIFIED IN THE CONTRACT, PLANS OR SPECIFICATIONS.

28. THE SPECIFICATIONS, NOTES AND PLANS CALL ATTENTION TO CERTAIN REQUIRED FEATURES OF THE CONSTRUCTION BUT DO NOT PURPORT TO COVER ALL DETAILS OF DESIGN AND CONSTRUCTION. HOWEVER, THE CONTRACTOR SHALL FURNISH AND INSTALL THE WORKS IN ALL DETAILS AND READY FOR OPERATION.

29. ALL EQUIPMENT SHALL BE HANDLED, STORED, INSTALLED, TESTED AND OPERATED IN STRICT ACCORDANCE WITH THE APPLICABLE MANUFACTURERS WRITTEN INSTRUCTIONS.

30. CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK COMPETENTLY AND EFFICIENTLY, DEVOTING SUCH ATTENTION THERETO AND APPLYING SUCH SKILLS AND EXPERTISE AS MAY BE NECESSARY TO PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

31. NO EXTRA PAYMENTS SHALL BE ALLOWED FOR ANY WORK REQUIRED DUE TO MISUNDERSTANDING OF JOB OR SITE CONDITIONS AFFECTING THE WORK AS DESCRIBED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL NOT TAKE ADVANTAGE OF ANY APPARENT ERROR OR OMISSION IN THE DRAWINGS OR SPECIFICATIONS, AND THE ENGINEER SHALL BE PERMITTED TO MAKE CORRECTIONS AND INTERPRETATION AS MAY BE DEEMED NECESSARY FOR THE FULFILLMENT OF THE INTENT OF THE CONTRACTS DOCUMENTS. THE TENDERING OF A PROPOSAL WILL ACKNOWLEDGE ACCEPTANCE OF THESE CONDITIONS BY THE BIDDER.

32. THE CONTRACTOR SHALL COMPLY WITH THE LEGAL LOAD RESTRICTIONS IN HAULING OF MATERIALS IN PUBLIC ROADS BEYOND THE LIMITS OF WORK. A SPECIAL PERMIT WILL NOT RELIEVE THE CONTRACTOR OF LIABILITY FOR DAMAGE WHICH MAY RESULT FROM THE MOVING OF MATERIAL AND EQUIPMENT.

DEMOLITION AND EROSION CONTROL NOTES:

1. PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN ON THE CONSTRUCTION PLANS SHALL BE PROTECTED IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY'S TREE ORDINANCE AND DETAILS CONTAINED IN THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREES SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM THE OWNER.

2. THE CONTRACTOR IS TO PREPARE THE SITE PRIOR TO BEGINNING ACTUAL CONSTRUCTION IN ACCORDANCE WITH THE SOILS TESTING REPORT. COPIES OF THE SOILS REPORT ARE AVAILABLE THROUGH THE OWNER OR THE SOILS TESTING COMPANY. QUESTIONS REGARDING SITE PREPARATION REQUIREMENTS DESCRIBED IN THE SOILS REPORT ARE TO BE DIRECTED TO THE SOILS TESTING COMPANY.

3. THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS WILL BE SEEDED, MULCHED OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL IMMEDIATELY FOLLOWING CONSTRUCTION

4. THE TOP 4" TO 6" OF GROUND REMOVED DURING CLEARING AND GRUBBING SHALL BE STOCKPILED AT A SITE DESIGNATED BY THE OWNER TO BE USED FOR LANDSCAPING PURPOSES, UNLESS OTHERWISE DIRECTED BY THE OWNER.

5. ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS. ONLY "GRADING BY HAND" IS PERMITTED WITHIN THE CANOPY LINE OF TREES THAT ARE TO REMAIN.

6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES TO DISCONNECT OR REMOVE THEIR FACILITIES PRIOR TO REMOVING OR DEMOLISHING ANY EXISTING STRUCTURES FROM THE SITE.

7. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAS BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND IS GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY AND THE ENGINEER TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFACE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANIES. AND THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANIES DURING RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.

8. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAKING A VISUAL INSPECTION OF THE SITE AND WILL BE RESPONSIBLE FOR THE DEMOLITION AND REMOVAL OF ALL UNDERGROUND AND ABOVE GROUND STRUCTURES THAT WILL NOT BE INCORPORATED WITH THE NEW FACILITIES. SHOULD ANY DISCREPANCIES EXIST WITH THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING THE OWNER AND REQUESTING A CLARIFICATION OF THE PLANS PRIOR TO DEMOLITION.

9. DURING CONSTRUCTION, ALL STORM SEWER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS EXISTING AND NEWLY INSTALLED, AND SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.

10. ALL EROSION AND SILTATION CONTROL METHODS SHALL BE IMPLEMENTED PRIOR TO THE START OF CONSTRUCTION AND MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.

11. WHEN CONSTRUCTION IS COMPLETED, THE RETENTION/DETENTION AREAS WILL BE RESHAPED, CLEANED OF SILT, MUD AND DEBRIS AND RE-SODDED IN ACCORDANCE TO THE PLANS.

12. CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES OR SILTATION CURTAIN) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS AND EXISTING WETLANDS. IN ADDITION, THE CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON THE GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT THE SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR THE COUNTY/CITY/STATE, EXCESSIVE QUANTITIES OF EARTH ARE TRANSFERRED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO CLEAN AND RESTORE THE AREA TO THE SATISFACTION OF THE ENGINEER AND/OR THE JURISDICTIONAL AGENCY.

13. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION OR OTHER ACCEPTABLE METHODS.

14. THE SURFACE AREA OF OPEN, RAW, ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS, SHALL NOT EXCEED TEN (10) ACRES WITHOUT WRITTEN AUTHORIZATION FROM THE COUNTY/CITY ENGINEER.

15. CONTRACTOR SHALL ASSURE THAT ALL APPROPRIATE AND REQUIRED PERMITS ARE IN HAND AND DISPLAYED ON THE SITE AS REQUIRED BY REGULATORY AGENCIES PRIOR TO PROCEEDING WITH DEMOLITION. CONTRACTOR SHALL ASSURE THAT THE OWNER HAS ISSUED A NOTICE TO PROCEED PRIOR TO COMMENCEMENT.

16. CONTRACTOR SHALL PROTECT THE EDGE OF ALL REMAINING PAVEMENT AND HARDSCAPE. DO NOT HAUL OVER UNPROTECTED PAVEMENT OR SAWCUT EDGES.

17. FILL AND COMPACT ALL DEPRESSIONS AND REMOVAL TRENCHES. COMPACT TO 95 % MODIFIED PROCTOR OUTSIDE PROPOSED BUILDINGS AND PAVEMENT. COMPACT TO 95% OF MAXIMUM DENSITY FOR ASTM D-1557.

18. CONTRACTOR SHALL LEAVE SITE FREE OF HOLES, HAZARDS, IMPOUNDMENTS AND DEBRIS UPON COMPLETION.

19. DISPOSAL OF ALL MATERIAL LEAVING THE SITE WILL BE ON HAUL ROUTES, BY METHODS AND TO DISPOSAL SITE AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

20. NOISE LEVELS AND HOURS OF DEMOLITION OPERATIONS RELATED THERETO SHALL BE AS DIRECTED BY OWNER.

21. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE WORKING OF ALL EXISTING IRRIGATION COMPONENTS THROUGHOUT THE DURATION OF CONSTRUCTION. NO INTERRUPTION TO IRRIGATION SHALL EXTEND BEYOND ONE WORK DAY. ANY SYSTEMS NOT FUNCTIONING CORRECTLY SHALL BE REPAIRED PRIOR TO END OF EACH WORK DAY.

22. EXISTING PAVEMENT AREAS TO REMAIN UNDISTURBED SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.

PAVING, GRADING AND DRAINAGE NOTES:

1. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL ENGINEERING REPORT, PREPARED BY TERRACON CONSULTANTS, PROJECT NUMBER H1235150 ALL SITE PREPARATIONS AND SHALL ADHERE TO THE REQUIREMENTS SET FORTH WITHIN.

2. ALL DELETERIOUS SUBSTANCE MATERIAL (E.G. MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER'S ENGINEER OR OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS.

3. THE CONTRACTOR SHALL NOT EXCAVATE, REMOVE OR OTHERWISE DISTURB ANY MATERIAL, STRUCTURE OR PART OF A STRUCTURE WHICH IS LOCATED OUTSIDE THE LINES, GRADES OR GRADING SECTION, ESTABLISHED FOR THIS PROJECT, EXCEPT WHERE SUCH EXCAVATIONS OR REMOVAL IS PROVIDED OR IN THE CONTRACT, PLANS, OR SPECIFICATIONS.

4. THE CONTRACTOR MUST MAINTAIN DRAINAGE TO THE EXISTING STRUCTURES THROUGHOUT CONSTRUCTION.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. TRENCHES SHALL BE KEPT DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED. DEWATERING SHALL BE USED AS REQUIRED.

6. IT MAY BE NECESSARY TO FIELD ADJUST PAVEMENT ELEVATIONS TO PRESERVE THE ROOT SYSTEMS OF TREES SHOWN TO BE SAVED. THE CONTRACTOR IS TO CO-ORDINATE WITH OWNER'S ENGINEER PRIOR TO ANY ELEVATION CHANGES.

7. PRIOR TO CONSTRUCTING CONCRETE PAVEMENT, THE CONTRACTOR IS TO SUBMIT A PROPOSED JOINTING PATTERN TO THE OWNER'S ENGINEER FOR APPROVAL.

8. THE CONTRACTOR IS TO PROVIDE A 1/2" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER, AT ABUTMENT OF CONCRETE AND ANY STRUCTURE.

9. THE CONTRACTOR IS TO INSTALL EXTRA BASE MATERIAL WHEN THE DISTANCE BETWEEN THE PAVEMENT ELEVATION AND THE TOP OF THE PIPE OR BELL IS LESS THAN TWELVE (12) INCHES.

10. BACKFILL MATERIAL SHALL BE SOLIDLY TAMPED AROUND PIPES IN 6" LAYERS UP TO A LEVEL OF AT LEAST ONE FOOT ABOVE THE TOP OF THE PIPE. IN AREAS TO BE PAVED, BACKFILL SHALL BE COMPACTED TO 100% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.

11. STANDARD PLANS REFER TO THE LATEST EDITION OF FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS".

12. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE CLASS III (ASTM C-76) OR APPROVED EQUAL UNLESS OTHERWISE NOTED ON PLANS. ALL DRAINAGE PIPE JOINTS SHALL BE WRAPPED IN FILTER FABRIC WRAP PER FDOT STANDARD PLANS INDEX 430-001.

13. PVC STORM PIPE (12" AND SMALLER) SHALL CONFORM TO AWWA C-900, CLASS 150 STANDARDS UNLESS OTHERWISE NOTED.

14. PIPE LENGTHS SHOWN ARE APPROXIMATE AND TO THE CENTER OF DRAINAGE STRUCTURES. PIPE LENGTH FOR MITERED END AND FLARED END SECTIONS ARE TO END OF PIPE.

15. ALL DRAINAGE STRUCTURE GRATES AND COVERS WITHIN TRAFFIC AREAS SHALL BE TRAFFIC RATED FOR H-20 LOADINGS.

16. UNDERCUTTING AND/OR OVER EXCAVATING THE RETENTION/DETENTION AREAS WILL NOT BE ALLOWED.

17. ALL CURBS, INLET THROATS, INLET TOPS AND CURB TIE-INS SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF PAVEMENT BASE.

18. PIPE WITH LIFTING HOLES WILL NOT BE ALLOWED IN ROADWAYS AND IS NOT APPROVED FOR ROADWAY CONSTRUCTION.

19. ALL INLET GRATES AND MANHOLE COVERS SHALL BE STEEL OR CAST IRON PER FDOT STANDARD PLANS INDEX NO. 425-052, AND SHALL BARE LABELING AS REQUIRED BY THE CITY.

20. ALL MANHOLE AND INLET STRUCTURES SHALL BE PRECAST CONCRETE.

21. CONTRACTOR SHALL DETERMINE THE BOTTOM SIZE OF ALL DRAINAGE STRUCTURES SO AS TO FIT ALL REQUIRED PIPES.

22. DITCH BOTTOM AND CONTROL STRUCTURE INLET GRATES SHALL BE SECURED BY CHAIN AND EYEBOLT.

23. ALL PAVEMENT, PAVEMENT BASE, CURBING, STORM WATER SYSTEMS, WATER SYSTEMS AND SANITARY SEWER SYSTEMS THAT ARE TO BE DEMOLISHED AND REMOVED SHALL BE DISPOSED OF OFF-SITE BY THE SITE CONTRACTOR TO AN APPROVED LANDFILL, UNLESS OTHERWISE DIRECTED BY THE OWNER AND APPROVED BY THE PROJECT ENGINEER.

24. ALL MANHOLES SHALL BE IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX NO. 425-001 AND 425-010 UNLESS OTHERWISE NOTED.

25. TEMPORARY CONSTRUCTION DEWATERING MAY BE NECESSARY, PARTICULARLY IF CONSTRUCTION PROCEEDS DURING THE WET SEASON. TEMPORARY CONSTRUCTION DEWATERING SHOULD BE ABLE TO MAINTAIN THE WATER LEVEL AT LEAST 2 FEET BELOW ALL COMPACTION SURFACES. STARTING TEMPORARY CONSTRUCTION DEWATERING PRIOR TO CLEARING AND GRUBBING MAY TEND TO LESSEN OFF-HAUL WEIGHTS AND COSTS. ALTHOUGH WELL POINT SYSTEMS ARE COMMONLY USED FOR RELATIVELY CLEAN SANDS, SUCH AS IDENTIFIED AT THIS SITE, HORIZONTAL DEWATERING MAY BE MORE EFFECTIVE FOR LARGER AREAS. THE SELECTION AND DESIGN OF A TEMPORARY CONSTRUCTION DEWATERING SYSTEM SHOULD BE PERFORMED BY A CONTRACTOR EXPERIENCED IN CONSTRUCTION DEWATERING.

26. PRIOR TO PLACING FILL, EXISTING VEGETATION AND ROOT MAT SHOULD BE REMOVED. COMPLETE STRIPPING OF THE TOP SOIL SHOULD BE PERFORMED IN ANY OF THE PROPOSED BUILDING AND PARKING/DRIVEWAY AREAS.

27. THE SUBGRADE SHOULD BE PROOF-ROLLED. PROOF-ROLLING CAN BE PERFORMED WITH APPROPRIATE HEAVY EQUIPMENT TO OBTAIN A MINIMUM COMPACTION AS SPECIFIED. THE PROOF-ROLLING SHOULD BE PERFORMED UNDER THE DIRECTION OF THE GEOTECHNICAL ENGINEER. EXCESSIVELY WET OR DRY MATERIAL SHOULD EITHER BE REMOVED OR MOISTURE CONDITIONED AND RECOMPACTED. UNSTABLE SOIL (PUMPING) SHOULD BE REMOVED OR MOISTURE CONDITIONED AND COMPACTED IN PLACE PRIOR TO PLACING FILL.

28. ANY WATER THAT COLLECTS OVER, OR ADJACENT TO, CONSTRUCTION AREAS SHOULD BE PROMPTLY REMOVED. IF THE SUBGRADE DESICCATES, SATURATES, OR IS DISTURBED, THE AFFECTED MATERIAL SHOULD BE REMOVED, OR THESE MATERIALS SHOULD BE SACRIFICED, MOISTURE CONDITIONED, AND RECOMPACTED, PRIOR TO FLOOR SLAB AND PAVEMENT CONSTRUCTION. ALL THESE PROCESSES SHOULD BE OBSERVED BY THE GEOTECH ENGINEER.

29. AS A MINIMUM, ALL TEMPORARY EXCAVATIONS SHOULD BE SLOPED OR BRACED AS REQUIRED BY THE OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION (OSHA) REGULATIONS TO PROVIDE STABILITY AND SAFE WORKING CONDITIONS. ALL EXCAVATIONS SHOULD COMPLY WITH LOCAL, STATE AND FEDERAL REGULATIONS, INCLUDING THE CURRENT OSHA EXCAVATION AND TRENCH SAFETY STANDARDS.

30. THE EARTHWORK EFFORTS SHOULD BE MONITORED UNDER THE DIRECTION OF THE GOETECHNICAL ENGINEER. THIS MONITORING SHOULD INCLUDE DOCUMENTATION OF ADEQUATE REMOVAL OF VEGETATION AND TOP SOIL, PROOF-ROLLING AND MITIGATION OF AREAS DELINEATED BY THE PROOF-ROLL TO REQUIRE MITIGATION.

31. PLACE FILL IN UNIFORM LIFTS NOT EXCEEDING 12 IN. IN LOOSE THICKNESS THAT WILL UNIFORMLY COMPACT TO THE REQUIRED DENSITIES.

32. BRING EACH LAYER TO BETWEEN ±4% OF OPTIMUM MOISTURE CONTENT BEFORE COMPACTION. ADD WATER BY UNIFORM SPRINKLING AND MIXING WITH SOILS. ADD OR BLEND ADDITIONAL FILL MATERIALS OR DRY OUT EXISTING MATERIALS AS REQUIRED. WHEN MOISTURE CONTENT AND CONDITION OF EACH LAYER IS SATISFACTORY, COMPACT TO SPECIFIED DENSITY. COMPACT AREAS NOT ACCESSIBLE TO MOTOR-DRIVEN EQUIPMENT WITH MECHANICAL OR HEAVY HAND TAMPERS.

33. PARKING AND PAVEMENT AREAS: COMPACT SOILS BELOW ALL PARKING AREAS, WALKS, SLABS, AND ASPHALT PAVEMENT TO 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR FULL DEPTH OF FILL.

34. LANDSCAPE/OPEN/DRAINAGE AREAS: COMPACT SOILS BELOW ALL LANDSCAPE, PLANTING, AND SOD AREAS TO 85% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR THE FULL DEPTH OF FILL.

35. MINOR STRUCTURES: SUPPORT CATCH BASINS AND OTHER MINOR STRUCTURES ON BOTTOM AND ALL SIDES BY SOILS COMPACTED TO 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR FULL DEPTH OF FILL.

36. EACH LIFT OF COMPACTED FILL SHOULD BE TESTED, EVALUATED, AND REWORKED AS NECESSARY UNTIL APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF ADDITIONAL LIFTS. EACH LIFT OF FILL SHOULD BE TESTED FOR DENSITY AND WATER CONTENT AT A FREQUENCY OF AT LEAST ONE TEST FOR EVERY 2,500 SQUARE FEET OF COMPACTED FILL IN THE BUILDING AREAS AND 5,000 SQUARE FEET IN PAVEMENT AREAS. ONE DENSITY AND WATER CONTENT TEST FOR EVERY 50 LINEAR FEET OF COMPACTED UTILITY TRENCH BACKFILL.

37. MOISTURE CONTENT AND DENSITY OF THE TOP 12 INCHES OF THE SUBGRADE BE EVALUATED AND THE PAVEMENT SUBGRADES BE PROOF-ROLLED AND TESTED WITHIN TWO DAYS PRIOR TO COMMENCEMENT OF ACTUAL PAVING OPERATIONS. COMPACTION TESTS SHOULD BE PERFORMED AT A FREQUENCY OF 1 TEST PER 10,000 SQUARE FEET OR FRACTION THEREOF. AREAS NOT IN COMPLIANCE WITH THE REQUIRED RANGES OF MOISTURE OR DENSITY SHOULD BE MOISTURE CONDITIONED AND RECOMPACTED. PARTICULAR ATTENTION SHOULD BE PAID TO HIGH TRAFFIC AREAS THAT WERE RUTTED AND DISTURBED EARLIER AND TO AREAS WHERE BACKFILLED TRENCHES ARE LOCATED. AREAS WHERE UNSUITABLE CONDITIONS ARE FOUND SHOULD BE REPAIRED BY REMOVING AND REPLACING THE MATERIALS WITH PROPERLY COMPACTED FILLS.

38. IF A SIGNIFICANT PRECIPITATION EVENT OCCURS AFTER THE EVALUATION OR IF THE SURFACE BECOMES DISTURBED, THE SUBGRADE SHOULD BE REVIEWED BY QUALIFIED PERSONNEL IMMEDIATELY PRIOR TO PAVING. THE SUBGRADE SHOULD BE IN ITS FINISHED FORM AT THE TIME OF THE FINAL REVIEW.

39. TO VERIFY THICKNESSES, AFTER PLACEMENT AND COMPACTION OF THE PAVEMENT COURSES, CORE THE WEARING SURFACE TO EVALUATE MATERIAL THICKNESS AND COMPOSITION AT A MINIMUM FREQUENCY OF 5,000 SQUARE FEET OR TWO LOCATIONS PER DAY'S PRODUCTION.

40. ALL CURBING SHOULD BE FULL DEPTH. USE OF EXTRUDED CURB SECTIONS WHICH LIE ON TOP OF ASPHALT SURFACE COURSES CAN ALLOW MIGRATION OF WATER BETWEEN THE SURFACE AND BASE COURSES, LEADING TO RIPPLING AND PAVEMENT DETERIORATION.

41. AN ADEQUATE NUMBER OF LONGITUDINAL AND TRANSVERSE CONTROL JOINTS SHOULD BE PLACED IN THE RIGID PAVEMENT IN ACCORDANCE WITH ACI AND/OR AASHTO REQUIREMENTS. EXPANSION (ISOLATION) JOINTS MUST BE FULL DEPTH AND SHOULD ONLY BE USED TO ISOLATE FIXED OBJECTS ABUTTING OR WITHIN THE PAVED AREA.

42. DURING CONSTRUCTION, NO DIRECT DISCHARGE OF WATER TO DOWNSTREAM RECEIVING WATERS WILL BE ALLOWED. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING WATER QUALITY, AND ROUTE DISCHARGE WATER IN SUCH A MANNER AS TO ADEQUATELY REMOVE SILT PRIOR TO RUNOFF FROM THE SITE.

43. THE STORM DRAINAGE PIPING AND FILTRATION SYSTEM SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. THE CONTRACTOR IS TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE AN INSPECTION.

44. THE CONTRACTOR SHALL MAINTAIN THE STORM DRAINAGE SYSTEMS UNTIL FINAL ACCEPTANCE OF THE PROJECT.

45. THE CONTRACTOR IS RESPONSIBLE FOR CO-ORDINATING ALL OF THE APPLICABLE TESTING WITH THE SOILS ENGINEER.

46. THE SOILS ENGINEER IS TO SUPPLY THE ENGINEER WITH A PHOTOCOPY OF ALL COMPACTION TESTS AND ASPHALT RESULTS. THE SOILS ENGINEER IS TO CERTIFY TO THE ENGINEER OF RECORD, IN WRITING, THAT ALL TESTING REQUIREMENTS REQUIRED BY THE COUNTY, THE UTILITY PROVIDER, THE WATER MANAGEMENT DISTRICT AND ANY OTHER AGENCY REQUIRING SUCH TESTS FOR THE IMPROVEMENTS.

STRIPING AND SIGNAGE NOTES:

1. REFER TO STANDARD PLANS INDEX NO. 711-001 FOR PAVEMENT MARKING DETAILS.

2. REFER TO STANDARD PLANS INDEX NO. 700-101 FOR SIGN PLACEMENT DETAILS.

3. REFER TO STANDARD PLANS INDEX NUMBERS 700-020, 700-010, AND 700-011 FOR SIGN INSTALLATION AND HARDWARE REQUIREMENTS.

4. THE SIGN LOCATIONS DEPICTED ON THESE PLANS ARE APPROXIMATE. CONTRACTOR TO REFER TO FDOT STANDARD INDEXES FOR REQUIRED LOCATIONS.

5. THERMOPLASTIC STRIPING SHALL ONLY BE UTILIZED FOR ALL STOP BARS, DIRECTIONAL INDICATORS, CROSSWALKS, AND ALL MARKINGS WITHIN COUNTY/CITY OR FDOT RIGHT OF WAY. ALL PARKING SPACE STRIPING SHALL BE PAINTED. SEE NOTE 14 THIS SECTION.

6. THERMOPLASTIC SHALL BE PLACED UTILIZING EXTRUSION APPLICATION EQUIPMENT.

7. THERMOPLASTIC SHALL BE THE ALKYD RESIN TYPE.

8. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROPRIATE F.D.O.T. STANDARD PLANS ON THE JOB SITE.

9. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH FLORIDA D.O.T. STANDARD PLANS, (2023-2024 EDITION) AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (2009 EDITION).

10. THE CONTRACTOR SHALL PRESENT HIS MAINTENANCE OF TRAFFIC PLANS AT THE PRE-CONSTRUCTION MEETING FOR APPROVAL.

11. PARKING LOT STRIPING ROWS SHALL BE DISTRIBUTED EVENLY BETWEEN LANDSCAPE ISLAND CURBS TO ACHIEVE THE NUMBER OF SPACES INDICATED ON THE STRIPING PLAN.

12. SIGNAGE SHALL HAVE A MINIMUM BOTTOM OF SIGN TO FINISH GRADE OF 7 FEET.

13. REFLECTIVE PAVEMENT MARKERS SHALL CONFORM TO FDOT STANDARD PLAN INDEX 706-001.

14. THERMOPLASTIC STRIPING SHALL BE IN ACCORDANCE WITH THE FDOT STANDARD SPECIFICATION SECTION 711. PAINTED PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH FDOT STANDARDS SPECIFICATION SECTION 710. CONTRACTOR SHALL SUBMIT PROPOSED MEANS OF STRIPING TO ENGINEER AND OBTAIN APPROVAL PRIOR INSTALLATION.

AS-BUILT NOTES:

1. AS-BUILT DRAWINGS SHALL BE PREPARED BY AND CERTIFIED BY A REGISTERED SURVEYOR, AND SHALL BE PROVIDED TO THE PROJECT ENGINEER UPON COMPLETION OF THE PROJECT SITE IMPROVEMENTS IN BOTH HARDCOPY AND ELECTRONIC FILE (AUTOCAD 2015). THE CERTIFIED DRAWINGS SHALL CONTAIN A STATEMENT OF COMPLIANCE WITH SECTION 21 HH-6 MIN. TECHNICAL STANDARDS, RULES OF THE DEPARTMENT OF PROFESSIONAL REGULATION, BOARD OF PROFESSIONAL LAND SURVEYORS, SECTION 21 H-6.003, SEC. 6, PART A, AS-BUILT SURVEY. AS-BUILT DRAWINGS SHALL REFLECT ANY CHANGES TO THE IMPROVEMENTS MADE DURING CONSTRUCTION. BOTH THE ORIGINAL DESIGN AND REVISED AS-BUILT DATA, AS APPLICABLE, MUST BE CLEARLY SHOWN. THE AS-BUILT DRAWINGS MUST BE CLEARLY LABELED AS "AS-BUILT" OR "RECORD DRAWING". THE FOLLOWING INFORMATION, AT A MINIMUM AND AS APPLICABLE TO THIS PROJECT, SHALL BE CERTIFIED ON THE AS-BUILT DRAWINGS:

A. WATER DISTRIBUTION SYSTEM:

A.1. LOCATION AND DIMENSIONS OF PIPES, VALVES, FITTINGS, AND OTHER ASSOCIATED FACILITIES.

B. PAVING AND DRAINAGE SYSTEM:

B.1. DIMENSIONS AND ELEVATIONS OF ALL DISCHARGE STRUCTURES INCLUDING ALL WEIRS, SLOTS, GATES, PIPES, AND SKIMMERS.

B.2. LOCATIONS, DIMENSIONS, AND ELEVATIONS OF ALL FILTER, EXFILTRATION, OR UNDERDRAIN SYSTEMS INCLUDING CLEANOUTS, PIPES, CONNECTIONS TO CONTROL STRUCTURES, AND POINTS OF DISCHARGE TO THE RECEIVING WATERS.

B.3. DIMENSIONS, ELEVATIONS, CONTOURS, OR CROSS-SECTIONS OF ALL STORMWATER TREATMENT POND STORAGE AREAS SUFFICIENT TO DETERMINE STAGE-STORAGE RELATIONSHIPS OF THE STORAGE AREA, AND THE POND DEPTH AND VOLUME BELOW THE CONTROL WATER ELEVATION FOR NORMALLY WET SYSTEMS.

B.4. DIMENSIONS, ELEVATIONS, CONTOURS, FINAL GRADES, OR CROSS-SECTIONS OF THE DRAINAGE SYSTEM IMPROVEMENTS TO DETERMINE FLOW DIRECTIONS AND CONVEYANCE OF RUNOFF TO THE TREATMENT SYSTEM.

B.5. DIMENSIONS, ELEVATIONS, CONTOURS, FINAL GRADES, OR CROSS-SECTIONS OF ALL CONVEYANCE SYSTEMS UTILIZED TO CONVEY OFF-SITE RUNOFF AROUND THE SYSTEM.

B.6. EXISTING WATER ELEVATION OF SURFACE WATERS AND THE DATE DETERMINED.

B.7. ELEVATION AND LOCATION OF BENCHMARK (S) FOR THE SURVEY

SAFETY NOTES:

1. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED BY THE CONTRACTOR. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS PERSONNEL. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION.

2. THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF THE STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS': SHALL BE FOLLOWED IN THE DESIGN APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKMEN FROM HAZARDS WITHIN THE PROJECT LIMITS.

3. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.

4. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION.

5. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.

6. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL , WARNING SIGNS, MARKINGS, ETC. FOR HAZARDS AND THE CONTROL OF TRAFFIC, IN CONFORMITY WITH FDOT STANDARDS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, OR AS DIRECTED BY FDOT; WHERE THE WORK CAUSES OBSTRUCTION TO THE NORMAL TRAFFIC OR CONSTITUTES IN ANY WAY A HAZARD TO THE PUBLIC.

STANDARDS & SPECIFICATIONS:

ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO SHALL BE OF LATEST REVISIONS AND/OR LATEST EDITION OF THE CITY OF CLERMONT LAND DEVELOPMENT CODE AND FDOT STANDARDS.

CITY OF CLERMONT DEVELOPMENT CODE:
https://library.municode.com/fl/clermont/codes/code_of_ordinances

FDOT STANDARD PLANS INDEX 2023-2024
https://www.fdot.gov/design/standardplans/current/default.shtm

FDOT DESIGN MANUAL 2023
https://www.fdot.gov/roadway/fdm/default.shtm

FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION
https://www.fdot.gov/programmanagement/implemented/specbooks/default.shtm

UTILITIES - PUBLIC WORKS. STANDARD DETAILS PER CITY OF CLERMONT.

KPMFranklin
ENGINEERS • PLANNERS • SURVEYORS
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PHONE (407)410-8624 COA 32059

ISSUE NO.	DATE:	
2	01/09/2024	CITY OF CLERMONT COMMENTS
1	10/09/2023	CITY OF CLERMONT COMMENTS

STATUS: CONSTRUCTION PLANS

REV NO:	DATE:	
2	01/19/2024	REVISIONS PER CITY OF CLERMONT COMMENTS
1	12/05/2023	REVISIONS PER CITY OF CLERMONT COMMENTS

GENERAL NOTES

WMG - CLERMONT SR 50
CLERMONT, FLORIDA

CAUTION
0 1/2 1
IF THIS SCALE BAR DOES NOT MEASURE 1" THE DOCUMENT IS NOT TO SCALE

ALEX T. GOETZ
LICENSE
No. 86837
STATE OF
01/19/2024
FLORIDA
PROFESSIONAL ENGINEER

ALEX T. GOETZ, P.E.
FLORIDA P.E. #86837

JOB NO: 23-0065.000
DESIGN: M.P.
DRAWN: M.N.
APPROVED: A.G.
SHEET NO: C0.1
REV: 1

P:\23-0065.000 WMG - CLERMONT SR 50\DESIGN\PLANS\CONSTRUCTION\C0.1_GENERAL_NOTES_WMG50.DWG 1/19/2024

GENERAL PROJECT DATA

FOR IDENTIFICATION OF CONTRACTUAL AGREEMENTS, THIS SET OF DRAWINGS IS DATED 09/01/2023. ANY REVISIONS THEREAFTER WILL BE NOTED AND DATED ON THE AFFECTED DRAWIING(S).

PRIOR TO THE COMMENCEMENT OF ANY WORK, A PRECONSTRUCTION MEETING WITH THE CITY OF CLERMONT IS REQUIRED. THE CITY OF CLERMONT SHALL BE NOTIFIED PRIOR TO COMMENCEMENT OF MAJOR PHASES OF CONSTRUCTION.

THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATIONS TO THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING AN UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLAN OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES THAT INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANY AND THE CONTRACTOR SHALL COOPERATE WITH THEM DURING RELOCATION OPERATIONS. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE RELOCATION OF VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.

DRAINAGE SYSTEMS

THE CONTRACTOR SHALL PERFORM ALL WORK PERTAINING TO DRAINAGE INCLUDING EXCAVATION OF W.R.A. PRIOR TO THE COMMENCEMENT OF OTHER WORK INCLUDED IN THESE PLANS. THE DRAINAGE FACILITIES SHALL BE MAINTAINED BY THE CONTRACTOR DURING THE COURSE OF THIS CONTRACT. THE CONTRACTOR SHALL INCLUDE FUNDS IN THE DRAINAGE COSTS OF THE CONTRACT TO OPERATE AND MAINTAIN THE DRAINAGE SYSTEMS DURING THE WORK PROCESS.

THE UTILITIES ARE THE PROPERTY OF THE FOLLOWING:

WATER	POWER	POWER
CITY OF CLERMONT UTILITIES DEPARTMENT 685 WEST MONTROSE STREET CLERMONT, FL 34711 (352) 241-7335	PROGRESS ENERGY P.O. BOX 120069 CLERMONT, FL 34712 (800) 432-4770	SUMTER ELECTRIC 293 S. US HIGHWAY 301 SUMTERVILLE, FL 33585 (352) 357-5600
SEWER	**CABLE**	**GAS**
CITY OF CLERMONT UTILITIES DEPARTMENT 685 WEST MONTROSE STREET CLERMONT, FL 34711 (352) 241-7335	BRIGHT HOUSE NETWORKS 1617 E HIGHWAY 50 CLERMONT, FL 34711 (352) 394-5541	LAKE APOPKA NATURAL GAS DISTRICT 676 W. MONTROSE STREET CLERMONT, FL 34711 (352) 394-3480 (800) 432-4770
TELEPHONE	**TELEPHONE**	
EMBARQ 260 CITRUS TOWER BLVD. CLERMONT, FL 34711 (800) 672-6242	AT&T 1-800-222-3000	

ASBUILTS

THE ENGINEER SHALL DELIVER ASBUILT DRAWING PLANS IN DWG FORMAT IN AUTOCAD FILES VERSION 2000 TO 2010. STANDARD TRANSFER MEDIA WILL BE ACCEPTED. THIS MEDIA INCLUDES CD OR DVD. ALL ASBUILT DATA SHALL BE PROVIDED BY A FLORIDA LICENSED SURVEYOR, SIGNED, SEALED AND DATED BY THE RESPONSIBLE PARTY. SEE INDIVIDUAL SECTIONS (STORM, WATER SYSTEM, ETC.) FOR ADDITIONAL ASBUILT REQUIREMENTS.

THE ENGINEER SHALL DELIVER ONE SCANNED SET OF APPROVED ASBUILT DRAWING PLANS. THE SCANNED SETS SHALL BE COMPLETE AND INCLUDE THE TITLE SHEET, PLAN/PROFILE SHEETS, CROSS-SECTIONS AND DETAILS. EACH INDIVIDUAL SHEET CONTAINED IN THE PRINTED SET OF THE DRAWINGS SHALL BE INCLUDED IN THE ELECTRONIC SUBMITTAL, WITH EACH SHEET BEING CONVERTED INTO AN INDIVIDUAL TIFF FORMAT. THE PLAN SHEETS SHALL BE SCANNED IN TIFF FORMAT AT 400 DPI RESOLUTION TO MAINTAIN LEGIBILITY OF EACH DRAWING. THEN, THE TIFF IMAGES SHALL BE EMBEDDED INTO A SINGLE PDF (ADOBE ACROBAT) FILE REPRESENTING THE COMPLETE PLAN SET. THESE DRAWINGS WILL ASSIST IN THE PROCESS OF PERFORMING QUALITY CONTROL AND QUALITY ASSURANCE ON THE ELECTRONIC SUBMITTAL SPECIFIED IN THIS DOCUMENT. THE DRAWINGS WILL BE REVIEWED FOR FORMAT AND COMPLETENESS. SPECIFICALLY, THE FOLLOWING REQUIREMENTS SHALL BE MET.

1. INCLUDE A LABEL ON THE MEDIA INDICATING PROJECT NAME AND NUMBER, CONSULTANT NAME, PROJECT MANAGER AND TELEPHONE NUMBER, TYPE OF SUBMITTAL (APPROVED CONSTRUCTION PLANS OR ASBUILT DRAWINGS), ONLY DRAWINGS RELEVANT TO THE PROJECT'S PHASE OF SUBMITTAL SHALL BE INCLUDED. FOR EXAMPLE, DO NOT INCLUDE "BID SET" DRAWINGS IN A "ASBUILT DRAWING" SUBMITTAL. ALSO, DO NOT INCLUDE DRAWINGS OR DOCUMENTS THAT WOULD NOT NORMALLY BE INCLUDED IN THE SET OF PRINTED DRAWINGS, EXCEPT FOR BASE DRAWINGS OR DRAWINGS TO BE EXTERNALLY REFERENCED.

2. RECORD DRAWING DATA TO BE UPLOADED WILL INCLUDE ONLY NEW CONSTRUCTION AND CARE WILL BE TAKEN TO EXCLUDE ANY "EXISTING" FACILITIES FROM THIS DATASET SO AS TO NOT DUPLICATE INFORMATION IN THE GIS SYSTEM. EXISTING DATA CAN BE INCLUDED IN THE DRAWING BUT SHOULD RESIDE ON SEPARATE LAYERS. IT IS RECOMMENDED THAT THE PREFIX "EX-" BE ADDED TO THE LAYERS OF ALL EXISTING DATA

3. THE FOLLOWING ARE FILE FORMAT AND LAYER NAME STANDARDS:

   a) A FOLDER SHALL BE CREATED WITH THE NAMED PROJECT AND PHASE NUMBER
   b) A FILE NAMED COVERSHEET.DWG
   c) FILE NAMED SITE_PLAN.DWG SHOWING ONLY THE FOLLOWING 5 LAYERS VISIBLE:
      - LAYER NAMED LOTS
      - LAYER NAMED LOT NUMBERS
      - LAYER NAMED ADDRESSES
      - LAYER NAMED ROW SHOWING ALL RIGHTS-OF-WAYS
      - LAYER NAMED EOP SHOWING ALL EDGE OF PAVEMENTS
   d) A FILE NAMED MASTERUTILITYPLAN.DWG WITH SITE_PLAN.DWG X-REF AND ONLY THE FOLLOWING 3 LAYERS VISIBLE:
      - LAYER NAMED WATERLINE SHOWING DIFFERENT PIPE SIZES, WATER METERS, AND HYDRANTS
      - LAYER NAMED REUSEWATER AND ALL APPROPRIATE FEATURES
      - LAYER NAMED SEWER AND ALL APPROPRIATE FEATURES
   e) FILE NAMED GRADING_DRAINAGE.DWG WITH SITE_PLAN.DWG X-REF AND ONLY THE FOLLOWING 2 LAYERS VISIBLE:
      - LAYER NAMED STORMWATER AND ALL APPROPRIATE FEATURES
      - LAYER NAMED SPOTELEV SHOWING ALL SPOT ELEVATIONS
      - ANY OTHER LAYERS PERTINENT TO THE GRADING AND DRAINAGE OF THE SITE
   f) IF APPLICABLE, A FILE NAMED OFF_SITE_UTILITIES.DWG
      INCLUDE ANY OTHER FILES PERTINENT TO THE PROJECT (SURVEY, DETAILS, X-REFS ETC.)

PERMITS AND PERMIT REQUIREMENTS

THE CONTRACTOR SHALL OBTAIN FROM THE OWNER COPIES OF ALL REGULATORY AND LOCAL AGENCY PERMITS. THE CONTRACTOR SHALL BE EXPECTED TO REVIEW AND ABIDE BY ALL THE REQUIREMENTS AND LIMITATIONS SET FORTH IN THE PERMITS. A COPY OF THE PERMIT SHALL BE KEPT ON THE JOB AT ALL TIMES.

LAYOUT AND CONTROL

UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL PROVIDE FOR THE LAYOUT OF ALL THE WORK TO BE CONSTRUCTED. BENCHMARK INFORMATION SHALL BE PROVIDED TO THE CONTRACTOR BY THE OWNER OR OWNER'S SURVEYOR. ANY DISCREPENCIES BETWEEN FIELD MEASUREMENTS AND CONSTRUCTION PLAN INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

QUALITY CONTROL TESTING REQUIREMENTS

ALLTESTING RESULTS SHALL BE PROVIDED TO THE OWNER/OPERATOR, CITY OF CLERMONT, AND THE ENGINEER. TESTING REQUIREMENTS ARE TO BE IN ACCORDANCE WITH THE OWNER/OPERATOR'S SPECIFICATIONS AND REQUIREMENTS. ALL TEST RESULTS SHALL BE PROVIDED (PASSING AND FAILING) ON A REGULAR AND IMMEDIATE BASIS. CONTRACTOR SHALL PROVIDE TESTING SERVICES THROUGH A FLORIDA LICENSED GEOTECHNICAL ENGINEERING FIRM ACCEPTABLE TO THE OWNER AND THE ENGINEER. CONTRACTOR TO SUBMIT TESTING FIRM TO OWNER FOR APPROVAL PRIOR TO COMMENCING TESTING.

SHOP DRAWINGS

SHOP DRAWINGS AND CERTIFICATIONS FOR ALL STORM DRAINAGE, WATER SYSTEM, SEWER SYSTEM, AND PAVING SYSTEM MATERIALS AND STRUCTURES ARE REQUIRED. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING THE MATERIALS REQUIRED FOR CONSTRUCTION.

EARTHWORK

EARTHWORK QUANTITIES

THE CONTRACTOR SHALL PERFORM HIS OWN INVESTIGATIONS AND CALCULATIONS AS NECESSARY TO ASSURE HIMSELF OF EARTHWORK QUANTITIES. THERE IS NO IMPLICATION THAT EARTHWORK BALANCES, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY IMPORT FILL NEEDED, OR FOR REMOVAL AND DISPOSAL OF EXCESS MATERIALS.

EROSION CONTROL

1

EROSION AND SILTRATION CONTROL MEASURES ARE TO BE PROVIDED AND INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THESE MEASURES ARE TO BE INSPECTED BY THE CONTRACTOR ON A REGULAR BASIS AND ARE TO BE MAINTAINED OR REPAIRED ON AN IMMEDIATE BASIS AS REQUIRED. REFER TO WATER MANAGEMENT DISTRICT PERMIT FOR ADDITIONAL REQUIREMENTS FOR EROSION CONTROL AND SURFACE DRAINAGE. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE STABILIZED WITH SOD WITHIN SEVEN (7) DAYS OF COMPLETION OF CONSTRUCTION. OTHER MATERIALS SHALL BE REVIEW AND APPROVED BY CITY.

WETLAND PROTECTION

THE LIMITS OF THE ON-SITE WETLANDS HAVE BEEN PROVIDED TO THE CONTRACTOR ON THE CONSTRUCTION PLANS OR ON PERMIT MATERIALS. THE WETLANDS ARE TO BE PROTECTED FROM DISTURBANCE AT ALL TIMES. CONTRACTOR SHALL PROVIDE EROSION, SILTATION, AND DIVERSION MEASURES PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN A COPY OF EACH PERMIT RELATING TO WETLANDS AND WATER MANAGEMENT AND ADHERE TO ALL PROVISIONS AND CONDITIONS THERETO.

LIMITS OF DISTURBANCE

AT NO TIME SHALL THE CONTRACTOR DISTURB SURROUNDING PROPERTIES OR TRAVEL ON SURROUNDING PROPERTIES WITHOUT WRITTEN CONSENT FROM THE PROPERTY OWNER. REPAIR OR RECONSTRUCTION OF DAMAGED AREAS ON SURROUNDING PROPERTIES SHALL BE PERFORMED BY THE CONTRACTOR ON AN IMMEDIATE BASIS. ALL COSTS FOR REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION SHALL BE PROVIDED. GRADING AND/OR CLEARING ON PROPERTIES OTHER THAN SHOWN ON THE APPROVED PLANS IS PROHIBITED.

TREE REMOVAL

THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER WHEN ALL WORK IS LAID OUT (SURVEY STAKED), SO THAT A DETERMINATION MAY BE MADE OF SPECIFIC TREES TO BE REMOVED. NO TREES ON THE CONSTRUCTION PLANS AS BEING SAVED SHALL BE REMOVED WITHOUT PERMISSION FROM THE OWNER, ENGINEER AND THE CITY OF CLERMONT.

CLEARING AND GRUBBING

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING AND GRUBBING FOR SITE CONSTRUCTION INCLUDING CLEARING FOR PAVING, UTILITIES, DRAINAGE FACILITIES AND BUILDING CONSTRUCTION. ALL AREAS TO BE CLEARED SHALL BE FIELD STAKED AND REVIEWED BY THE OWNER AND ENGINEER PRIOR TO ANY CONSTRUCTION.

NO BURN PERMITS (INCLUDING THOSE FOR LAND CLEARING) WILL BE ISSUED IN THE CITY OF CLERMONT WITHOUT PRIOR AUTHORIZATION FROM THE CITY MANAGER.

MATERIAL STORAGE/DEBRIS REMOVAL

1) NO COMBUSTIBLE BUILDING MATERIALS MAY BE ACCUMULATED ON THE SITE AND NO CONSTRUCTION WORK INVOLVING COMBUSTIBLE MATERIALS MAY BEGIN UNTIL INSTALLATION OF ALL REQUIRED WATER MAINS AND FIRE HYDRANTS HAVE BEEN COMPLETED, DEP APPROVAL RECEIVED FOR THE WATER MAINS, AND THE HYDRANTS ARE IN OPERATION. CONSTRUCTION WORK INVOLVING NON-COMBUSTIBLE MATERIALS, SUCH AS CONCRETE, MASONARY AND STEEL MAY BEGIN PRIOR TO THE FIRE HYDRANTS BEING OPERATIONAL.

2) ALL MATERIALS EXCAVATED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STOCKPILED AT ON-SITE LOCATIONS AS SPECIFIED BY THE OWNER. MATERIALS SHALL BE STOCKPILED SEPARATELY AS TO USABLE (NONORGANIC) FILL STOCKPILES AND ORGANIC (MUCK) STOCKPILES IF MUCK IS ENCOUNTERED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL UNSUITABLE FILL MATERIALS FROM THE SITE. ALL CLAY ENCOUNTERED SHALL BE EXCAVATED OUT AND REPLACED WITH CLEAN GRANULAR FILL MATERIALS.

FILL MATERIAL

ALL MATERIALS SHALL CONTAIN NO MUCK, STUMPS, ROOTS, BRUSH, VEGATATIVE MATTER, RUBBISH OR OTHER MATERIAL THAT WILL NOT COMPACT INTO A SUITABLE AND ENDURING BACKFILL. FILL SHALL BE CLEAN, NON-ORGANIC, GRANULAR MATERIAL WITH NOT MORE THAN 10% PASSING THE NO. 200 SIEVE.

COMPACTION

FILL MATERIALS PLACED UNDER ROADWAYS SHALL BE COMPACTED TO AT LEAST 98% OF THE MAXIMUM DENSITY AS SPECIFIED IN AASHTO T-180. ALL OTHER FILL AREAS ARE TO BE COMPACTED TO AT LEAST 95% MAXIMUM DENSITY AS SPECIFIED IN AASHTO T-180. FILL MATERIALS SHALL BE PLACED AND COMPACTED IN A MAXIMUM OF 12" LIFTS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER AND OWNER WITH ALL (PASSING AND FAILING) TESTING RESULTS. RESULTS SHALL BE PROVIDED ON A TIMELY AND REGULAR BASIS PRIOR TO CONTRACTOR'S PAY REQUEST SUBMITTAL FOR THE AFFECTED WORK.

PAVEMENT AND/OR ROAD AND RIGHT-OF-WAY WORK

ALL PRESSURE PIPE UNDER ROADWAY SHALL BE DIP EXTENDING 5' FROM EDGE OF PAVEMENT.

OWNER/OPERATOR

THE ENTITY THAT WILL OWN, OPERATE AND MAINTAIN THE ROADWAYS SHOWN ON THESE PLANS IS FDOT, LAKE COUNTY OR THE CITY OF CLERMONT. THE CONTRACTOR SHALL BE EXPECTED TO MEET ALL THE REQUIREMENTS OF THAT ENTITY.

GENERAL DESIGN INTENT

ALL PAVING SURFACES IN INTERSECTIONS AND ADJACENT SECTIONS SHALL BE GRADED TO DRAIN POSITIVELY IN THE DIRECTION SHOWN BY THE FLOW ARROWS ON THE PLANS AND TO PROVIDE A SMOOTHLY TRANSITIONED DRIVING SURFACE FOR VEHICLES WITH NO SHARP BREAKS INGRADE, AND NO UNUSUALLY STEEP OR REVERSE CROSS SLOPES. APPROACHES TO INTERSECTIONS AND ENTRANCE AND EXIT GRADES TO INTERSECTIONS WILL HAVE TO BE STAKED IN THE FIELD AT DIFFERENT GRADES THAN THE CENTERLINE GRADES TO ACCOMPLISH THE PURPOSES OUTLINED. IN ADDITION, THE STANDARD CROWN WILL HAVE TO BE CHANGED IN ORDER TO DRAIN POSITIVELY IN THE AREA OF INTERSECTIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH THE ABOVE AND THE ENGINEER SHALL BE CONSULTED SO THAT HE MAY MAKE ANY AND ALL REQUIRED INTERPRETATIONS OF THE PLANS OR GIVE SUPPLEMENTARY INSTRUCTION TO ACCOMPLISH THE INTENT OF THE PLANS.

MATERIALS/CONSTRUCTION SPECIFICATIONS

MATERIALS AND CONSTRUCTION METHODS FOR THE ROADWAY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 1991, OR LATEST EDITION.

PAVEMENT SECTION REQUIREMENTS

CONSTRUCTION OF ROADWAYS SHALL BE 12" OF STABILIZED SUBBASE WITH A LIMEROCK BEARING PATIO OF (LBR) 40 COMPACTED TO THE MODIFIED PROCTOR MAXIMUM DRY DENSITY OF 98% PER AASHTO T-180, 6" OF LIMEROCK BASE COURSE, (LBR) 100, COMPACTED TO THE MODIFIED PROCTOR MAXIMUM DRY DENSITY OF 98% PER AASHTO T-180 AND 2" TYPE S-111 OF RECYCLED ASPHALTIC CONCRETE SURFACE COURSE WITH A MINIMUM STABILITY OF 1500 LBS. SUBGRADE PREPARATION AND PAVEMENT INSTALLATION SHALL CONFORM TO FDOT STANDARDS AND SOILS REPORT RECOMMENDATIONS.

SIDEWALKS

SIDEWALKS ARE TO BE CONSTRUCTED IN THE AREA AS SHOWN ON THE CONSTRUCTION PLANS. THE 5' SIDEWALK SHALL BE CONSTRUCTED OF 4 INCHES OF CONCRETE WITH A 28 DAY COMPRESSION STRENGTH OF 2500 PSI. JOINTS SHALL BE EITHER TOOLED OR SAWCUT AT A DISTANCE OF 5' LENGTHS, HANDICAPPED RAMPS SHALL BE PROVIDED AT ALL INTERSECTIONS AND BE IN ACCORDANCE WITH STATE REGULATIONS FOR HANDICAP ACCESSIBILITY.

PAVEMENT MARKINGS/SIGNAGE

PAVEMENT MARKINGS AND SIGNAGE SHALL BE PROVIDED AS SHOWN ON THE CONSTRUCTION PLANS AND SHALL MEET THE REQUIREMENTS OF THE OWNER/OPERATOR. SIGNAGE SHALL BE IN CONFORMANCE WITH MUTCD (LATEST EDITION). A 48-HOUR PAVEMENT CURING TIME WILL BE PROVIDED PRIOR TO APPLICATION OF THE PAVEMENT MARKINGS. REFLECTIVE PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH FDOT INDEX NO. 17352.

TRAFFIC CONTROL

AN MOT PLAN SHALL BE SUBMITTED TO THE INSPECTOR PRIOR TO COMMENCEMENT OF WORK. A MINIMUM OF 2-WAY, ONE LANE TRAFFIC SHALL BE MAINTAINED IN THE WORK SITE AREA. ALL CONSTRUCTION WARNING SIGNAGE SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION AND BE MAINTAINED THROUGHOUT CONSTRUCTION. ACCESS SHALL BE CONTINUOUSLY MAINTAINED FOR ALL PROPERTY OWNERS SURROUNDING THE WORK SITE AREA. LIGHTED WARNING DEVICES ARE TO BE OPERATIONAL PRIOR TO DUSK EACH NIGHT DURING CONSTRUCTION.

CURBING

CURBING SHALL BE CONSTRUCTED WHERE NOTED ON THE CONSTRUCTION PLANS. CONCRETE FOR CURBS SHALL BE DEPARTMENT OF TRANSPORTATION CLASS "1" CONCRETE WITH A 28 DAY COMPRESSION STRENGTH OF 2500 PSI. ALL CURBS SHALL HAVE SAW CUT CONTRACTION JOINTS AND SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 10'-0" ON CENTER. CONSTRUCTION OF CURBS SHALL BE IN CONFORMANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (1991) SECTION 520 AND DETAILS PROVIDED ON THE CONSTRUCTION PLANS.

R/W RESTORATION

ALL AREAS WITHIN THE RIGHT-OF-WAYS SHALL BE FINISH GRADED WITH A SMOOTH TRANSITION INTO EXISTING GROUND. ALL SWALES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING. ALL DISTURBED AREAS SHALL BE RAKED CLEAN OF ALL LIMEROCK AND ROCKS AND SODDED AFTER FINAL GRADING IN ACCORDANCE WITH THE CONSTRUCTION PLANS PRIOR TO FINAL INSPECTION. ALL GRASSING (SEED OR SOD) SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL FINAL ACCEPTANCE BY THE OWNER/OPERATOR.

SITE ACCESS

ALL ACCESS TO THE JOB SITE FOR CONSTRUCTION AND RELATED ACTIVITIES SHALL BE BY EXISTING STREETS AND ROADS, OR BY THE CONSTRUCTION EASEMENT AS APPROVED BY THE CITY OF CLERMONT.

POTABLE WATER/FIRE SYSTEMS

OWNER/OPERATOR

THE ENTITY THAT WILL OWN, OPERATE AND MAINTAIN THE WATER SYSTEM SHOWN ON THESE PLANS IS CITY OF CLERMONT. THE CONTRACTOR SHALL BE EXPECTED TO MEET ALL THE REQUIREMENTS OF THAT ENTITY, UNLESS OTHERWISE INDICATED ON PLANS.

LANDSCAPING

PROVIDE MINIMUM 5' SEPARATION FROM UTILITIES AND TREES WITH INVASIVE ROOT SYSTEMS.

PIPE MATERIALS

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL CITY INFRASTRUCTURE TO BE CONSTRUCTED. WATER SYSTEM SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER AND SHALL MEET CITY SPECIFICATIONS.

POLYVINYL CHLORIDE PLASTIC PIPE (PVC) 4" THROUGH 12" SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C900 (LATEST EDITION) AND SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI AND A DR (DIMENSION RATIO) OF 18. ALL PVC PIPE SHALL BEAR THE NSF LOGO FOR POTABLE WATER. JOINTS SHALL BE OF THE PUSH-ON TYPE AND COUPLINGS CONFORMING TO ASTM D3139, DR18 PIPE.

DUCTILE IRON PIPE (DIP) SHALL BE STANDARD PRESSURE CLASS 350 IN SIZES 4" THROUGH 12" AND CONFORM TO ANSI/AWWA C150/A21.50 (LATEST EDITION). ALL DUCTILE IRON PIPE SHALL HAVE A STANDARD THICKNESS OF CEMENT MORTAR LINING AS SPECIFIED IN ANSI/AWWA C104/A21.4 (LATEST EDITION). PIPE JOINTS SHALL BE OF THE PUSH-ON RUBBER GASKET TYPE CONFORMING TO ANSI/AWWA C111/A21.11 (LATEST EDITION).

ALL PRESSURE PIPE UNDER ROADWAY SHALL BE DIP EXTENDING 5' FROM EDGE OF PAVEMENT.

3" METALLIC LOCATOR TAPE WITH LOCATOR WIRE SHALL BE INSTALLED ON ALL WATER MAINS PER DETAIL.

PIPE MATERIALS CONT.

PIPE SIZES GREATER THAN 12" BE SEPARATELY SPECIFIED ON THE PLANS; WITH THICKNESS CLASSES TO BE SHOWN BASED ON WORKING PRESSURES, PIPE DEPTH AND TRENCH CONDITIONS. FITTINGS FOR DUCTILE IRON PIPE AND PVC C-900 PIPE SHALL BE DUCTILE IRON AND SHALL CONFORM TO ANSI/AWWA C153/A21.10 (LATEST EDITION) AND SHALL BE CEMENT LINED IN CONFORMANCE WITH ANSI/AWWA C104/A21.4 (LATEST EDITION).

POLYETHYLENE WRAP USED FOR CORROSION PREVENTION ON DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI/ASTM D1248. THE MINIMUM NOMINAL THICKNESS SHALL BE 0.008 IN. (8 MILS). INSTALLATION OF POLY WRAP SHALL BE IN ACCORDANCE WITH AWWA C105. TRANSMISSION MAIN SHALL BE DIP RATED FOR 250 PSI.

VALVES

GATE VALVES SHALL BE RESILIENT SEAT AND SHALL CONFORM TO ANSI/AWWA C509.87 WITH HANDWHEEL OR WRENCH NUT, EXTENSION STEMS AND OTHER APPURTENANCES AS REQUIRED (OPERATION NUT TO BE WITHIN 3 FEET OF FINISH GRADE). MANUFACTURER'S CERTIFICATION OF THE VALVES COMPLIANCE WITH AWWA SPECIFICATION C509 AND TESTS LISTED THEREIN WILL BE REQUIRED. SEE CITY OF CLERMONT APPROVED PRODUCT LIST.

POTABLE WATER AND REUSE VALVES

ANY VALVE USED IN A POTABLE WATER OR REUSE WATER APPLICATION THAT IS 4" OR LARGER MUST BE A RESILIANT SEAT AND CONFORM TO ALL AWWA SPECIFICATIONS.

AIR RELEASE VALVES

AIR RELEASE VALVES SHALL BE PLACED AT HIGH POINTS OF THE TRANSMISSION MAIN TO PERMIT ESCAPE OF TRAPPED AIR. THE VALVE SIZE, LOCATION AND METHOD OF INSTALLATION SHALL BE INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER. SEE CITY OF CLERMONT APPROVED PRODUCTS LIST.

VALVE BOXES

VALVE BOXES ON BURIED POTABLE WATER MAINS SHALL BE ADJUSTABLE, CAST IRON CONSTRUCTION, WITH MINIMUM INTERIOR DIAMETER OF 5" WITH COVERS CAST WITH THE INSCRIPTION IN LEGIBLE LETTERING ON TOP: WATER. BOXES SHALL BE SUITABLE FOR THE APPLICABLE SURFACE LOADING AND VALVE SIZE, AND SHALL BE MANUFACTURED BY MUELLER COMPANY, MODEL 10364, OR APPROVED EQUAL. VALVE BOX PADS SHALL BE 24"x24"x4" THICK CONCRETE WITH #4 REINFORCING BARS. PAD TO BE SET AT FINISHED GRADE WITH RECESSED DETECTOR WIRE CONDUIT PORT PER DETAIL. REUSE MAINS TO HAVE SQUARE TOP VALVE BOXES.

WATER SERVICES

UNLESS OTHERWISE NOTED IN THE PLANS, THE UTILITY COMPANY SHALL PROVIDE AND INSTALL WATER METERS. CONTRACTOR SHALL CONSTRUCT WATER SERVICE THROUGH THE CURB STOP AND SET METER BOXES TO FINISHED GRADE AS SHOWN ON THE WATER SYSTEM DETAIL SHEET. POLYETHYLENE (PE) PRESSURE PIPE FOR WATER SERVICES 1/2" THROUGH 3" SHALL CONFORM TO AWWA C901.88, MIN. 200 PSI, CTS 5100 (DR-9) ASTM D-2737, 200 PSI. THE SERVICE SHALL BE COMPLETE THROUGH THE CURB STOP AS SHOWN ON THE DETAIL SHEET AND SHALL BE OF THE TYPE REQUIRED FOR COMPATIBILITY WITH THE SERVICE LINES SPECIFIED, UTILITY COMPANY SHALL PROVIDE AND INSTALL IRRIGATION METERS. WHERE RECLAIM SERVICE IS NOT PROVIDED, CONTRACTOR SHALL CONSTRUCT IRRIGATION SERVICE THROUGH THE CURB STOP AND SET NEW BOXES TO FINISHED GRADE AS SHOWN ON THE WATER SYSTEM DETAIL SHEET. SEE CITY OF CLERMONT APPROVED PRODUCT LIST.

WATER SERVICES 2.5" AND LARGER

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING A NEPTUNE R450 METER WITH E-CODER REGISTER, 12795-220S1227 NEPTUNE R450 WALL MIU (CLERMONT SPECIAL) AND 12596-002 NEPTUNE WALL MIU ADAPTOR F/PIT STYLE REGISTER. THE ASSEMBLY SHALL BE ABOVE GROUND STYLE WITH BYPASS SET UP FOR METER TESTING. A STRAINER SHALL BE INSTALLED PRIOR TO THE METER AND AND SHALL BE FROM THE SAME MANUFACTURER AS THE WATER METER. INCLUDE SPOOL PIECES 5X THE DIAMETER UPSTREAM AND 10X THE DIAMETER DOWNSTREAM MINIMUM LENGTH. ISOLATION VALVES SHALL BE INSTALLED PRIOR TO THE METER AND ANOTHER ONE PAST THE METER TEST PORT AND BEFORE THE THE DOWNSTREAM BYPASS CONNECTION. BYPASS PIPING SHALL HAVE A LOCKABLE ISOLATION VALVE UNLESS IT IS UNDERGROUND.

MATERIALS AS REQUIRED BY THE CITY OF CLERMONT

THE CONTRACTOR SHALL CUT A "W" IN THE CURB TOP AT EACH WATER SERVICE AND A "V" AT ALL VALVE LOCATIONS. CUT W'S AND V'S SHALL BE HIGHLIGHTED WITH BLUE PAINT. SEE WATER SYSTEM DETAILS FOR OTHER SERVICE LOCATION AND MARKING REQUIREMENTS.

PIPE INSTALLATION

PIPE INSTALLATION OF PVC WATER MAIN SHALL BE IN CONFORMANCE WITH ASTM D2774 (LATEST EDITION). INSTALLATION OF DUCTILE IRON PIPE WATER MAIN SHALL BE IN CONFORMANCE WITH AWWA C600.87.

COMPACTED BACKFILL SHALL BE TO 98% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 UNDER ALL PAVEMENTS WITH 12" MAXIMUM LIFT THICKNESS. OTHER COMPACTION OF BACKFILL SHALL BE TO 95% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 WITH 12" MAXIMUM LIFT THICKNESS. SEE PIPE TRENCHING DETAILS.

MINIMUM COVER OVER ALL PIPE SHALL BE 36" FROM TOP OF PIPE TO FINISHED GRADE. SEE PLAN AND PROFILE SHEETS FOR REQUIRED DEPTH.

WATER MAINS ARE TO BE INSTALLED SO AS TO PROVIDE A MINIMUM VERTICAL CLEARANCE OF 12" OR A MINIMUM HORIZONTAL CLEARANCE OF 10' FROM ALL OTHER UTILITIES. IF THE MINIMUM CLEARANCE CAN NOT BE ACHIEVED, THEN DUCTILE IRON WATER MAIN SHALL BE SPECIFIED 10 FEET EITHER SIDE OF THE CROSSING. HORIZONTAL AND VERTICAL MINIMUM SEPARATION DISTANCE REQUIREMENTS BETWEEN WATER MAIN AND ALL OTHER UTILITIES SHALL COMPLY WITH 62-555.314 (1), (2), (3), (4) AND (5) FAC.

ALL WATER MAINS SHALL BE INSTALLED WITH RESTRAINED JOINT FITTINGS. NO CONCRETE THRUST BLOCKS TO BE USED.

ALL PLUGS, CAPS, TEES, BENDS, FIRE HYDRANTS, VALVES, ETC. SHALL BE PROVIDED WITH MEGALUG PIPE RESTRAINTS. FOR RESTRAINT CONSTRUCTION SPECIFICATIONS, REFER TO THE WATER SYSTEM DETAILS.

ALL VALVES TO BE RESTRAINED AS DEAD ENDS IN BOTH DIRECTIONS.

GENERAL NOTES AND DETAILS
REVISED
5-30-2023

KPMFranklin
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ISSUE NO.	DATE:	
2	01/09/2024	CITY OF CLERMONT COMMENTS
1	10/09/2023	CITY OF CLERMONT COMMENTS

STATUS: CONSTRUCTION PLANS

REV NO:	DATE:	
2	01/19/2024	REVISIONS PER CITY OF CLERMONT COMMENTS
1	12/05/2023	REVISIONS PER CITY OF CLERMONT COMMENTS

CITY OF CLERMONT
GENERAL NOTES

WMG - CLERMONT SR 50
CLERMONT, FLORIDA

CAUTION
0 1/2 1
IF THIS SCALE BAR DOES NOT MEASURE 1" THE DOCUMENT IS NOT TO SCALE

ALEX T. GOETZ LICENSE No. 86837 STATE OF 01/19/2024 FLORIDA PROFESSIONAL ENGINEER
ALEX T. GOETZ, P.E.
FLORIDA P.E. #86837

JOB NO: 23-0065.000
DESIGN: M.P.
DRAWN: M.N.
APPROVED: A.G.
SHEET NO: C0.2
REV: 1

PIPE IDENTIFICATION

3" METALLIC LOCATOR TAPE SHALL BE BURIED IN THE WATER MAIN TRENCH 18" DIRECTLY ABOVE THE WATER MAIN. A CONTINUOUS COPPER DETECTOR WIRE SHALL BE ATTACHED AS SHOWN ON THE WATER DETAIL SHEET. WIRE CONNECTIONS (SPLICES) SHALL BE DONE WITH WIRE NUT AND GREASE FILLED PROTECTIVE CAP.

ALL PIPE AND PIPE FITTINGS SHALL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUB- PARAGRAPH 62-555.320(21)(b)3, F.A.C., USING BLUE AS A PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE SHALL BE SOLID-WALL BLUE PIPE, SHALL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN OR SHALL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL; AND UNDERGROUND METAL OR CONCRETE PIPE SHALL HAVE BLUE STRIPES APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE SHALL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT SHALL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPE WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT SHALL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVE GROUND PIPE SHALL BE PAINTED BLUE OR SHALL BE COLOR CODED OR MARKED LINE UNDERGROUND PIPE.) RHINO TRIVIEW FLEXMARKING POST SHALL BE PLACED ON ALL TRANSMISSION MAINS AT 500 FEET.

DISINFECTION AND TESTING

ALL PIPE SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651.86.

PVC WATER MAINS SHALL BE INSTALLED; PRESSURE AND LEAK TESTED IN ACCORDANCE WITH AWWA C605 AND DUCTILE IRON WATER MAINS IN ACCORDANCE WITH AWWA C600, [62-555.320(21)(B) 1 AND 62-555.330, F.A.C]. ALL INSTALLATION, TESTING AND FIELD PROCEDURES MUST BE PROVIDED AND MUST CONFORM TO THE APPLICABLE AWWA STANDARDS.

THE CONTRACTOR SHALL PROVIDE AT HIS OWN EXPENSE ALL NECESSARY TEST PUMPING EQUIPMENT, WATER, WATER METERS, PRESSURE GAUGES AND OTHER EQUIPMENT, MATERIAL AND FACILITIES REQUIRED FOR ALL HYDROSTATIC AND LEAKAGE TESTING. CONTRACTOR SHALL CONTACT THE ENGINEER, OWNER/OPERATOR AND CITY IN WRITTEN FORM, FORTY EIGHT (48) HOURS IN ADVANCE OF PROPOSED TESTING. THE CONTRACTOR SHALL PERFORM SATISFACTORY PRETESTING PRIOR TO NOTIFICATION.

THE WATER SYSTEM SHALL BE SOAK TESTED 24 HOURS @150 PSI AND TESTED FOR LEAKAGE AT 150 PSI FOR TWO (2) HOURS, WITH ALLOWABLE LEAKAGE IN ACCORDANCE WITH ABOVE STANDARDS.

CONTRACTOR SHALL OBTAIN A COPY OF THE FDEP WATER SYSTEM PERMIT AND PULL BACTERIOLOGICAL TEST SAMPLES FROM THE SAMPLE POINTS SPECIFIED IN THAT PERMIT. CONTINUITY TEST SHALL BE PERFORMED ON WIRE BY CONTRACTOR.

CONNECTIONS TO EXISTING WATER MAINS

PRIOR TO THE CONNECTION TO ANY EXISTING MAIN, THE PROPOSED WATER MAIN SHALL BE DISINFECTED, HAVE ENGINEER APPROVED PRESSURE TESTING AND HAVE FDEP CLEARANCE. REFER TO FDEP PERMIT FOR ANY ADDITIONAL REQUIREMENTS.

ASBUILT DRAWINGS

THE CONTRACTOR SHALL PROVIDE VERTICAL AND HORIZONTAL "ASBUILT" INFORMATION RELATIVE TO ALL CONSTRUCTED UTILITIES AND STRUCTURES. THREE SETS SHALL BE PROVIDED FOR REVIEW. ONCE APPROVED BY THE UTILITY, ONE REPRODUCIBLE SET SHALL BE PROVIDED.

AS-BUILT INFORMATION FOR THE WATER SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

1. LOCATION OF ALL VALVES, FITTINGS, HYDRANTS AND SERVICES – HORIZONTAL AND VERTICAL.

2. LOCATION OF THE WATER MAIN TIED WITH COORDINATES FOR THE SUBDIVISION.

3. CERTIFICATION AS TO THE SYSTEM MEETING THE MINIMUM COVER REQUIREMENTS.

4. HORIZONTAL AND VERTICAL DATA FOR ANY CONSTRUCTION WHICH DEVIATES FROM THE APPROVED ENGINEERING PLANS.

5. UTILITY LOCATES ON SYSTEMS INSTALLED UNDER THIS CONTRACT SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER UNTIL ASBUILT DRAWINGS ARE REVIEWED AND APPROVED BY THE UTILITY.

SANITARY SEWER NOTES

1. ALL PRESSURE PIPE UNDER ROADWAY SHALL BE DIP EXTENDING 5' FROM EDGE OF PAVEMENT.

MAINS AND MANHOLES

1. ALL GRAVITY SANITARY SEWER MAINS, LATERALS, AND APPURTENANCES SHALL BE CONSTRUCTED OF SDR26 PVC PIPE MEETING ASTM 3034, AND SHALL HAVE A MINIMUM COVER OF THREE (3) FEET.

2. WHERE REQUIRED, MAINS SHALL BE CLASS 150 DUCTILE IRON PIPE (DIP) MEETING AWWA C150 AND C151. MAINS SHALL BE 60 MIL EPOXY COATED WITH POLYETHYLENE WRAP CONFORMING TO AWWA C105.

3. ALL PVC PIPE SHALL BEAR THE NSF-DW SEAL.

4. JOINTS SHALL BE INTEGRAL BELL ELASTOMERIC GASKET JOINTS MANUFACTURED IN ACCORDANCE WITH ASTM D3212 AND ASTM F477. APPLICABLE UNI-BELL PLASTIC PIPE ASSOCIATION STANDARD IS UNI-B-7.

5. ALL SANITARY MANHOLES SHALL BE PRECAST CONCRETE WITH A MINIMUM WALL THICKNESS OF FIVE (5) INCHES FOR INSIDE DIAMETER OF FOUR (4) FEET.

6. MANHOLES SHALL MEET ASTM C-478. RING AND COVER SHALL BE TRAFFIC BEARING H-20 CLASS 30 MEETING ASTM A-48.

7. INTERIOR AND EXTERIOR WALLS OF ALL MANHOLES SHALL HAVE A MINIMUM OF TWO (2) 8 MIL COATS OF AN APPROVED PROTECTIVE COAL TAR EPOXY.

8. ALL MAINS NOT LOCATED UNDER PAVEMENT SHALL BE MARKED BY A 3" METALLIC LOCATOR TAPE AND TRACER WIRE 18" ABOVE THE CENTERLINE OF PIPE. DROP MANHOLE IF INVERT DIFFERENCE IS GREATER THAN OR EQUAL TO TWO (2) FEET. 3" METALLIC LOCATOR TAPE SHALL BE BURIED IN THE WATER MAIN TRENCH 18" DIRECTLY ABOVE THE WATER MAIN. A CONTINUOUS COPPER DETECTOR WIRE SHALL BE ATTACHED AS SHOWN ON THE WATER DETAIL SHEET.

9. LINING IS REQUIRED OF ALL MANHOLES WITH AN INCOMING SLOPE GREATER THAN 5%. ANY MANHOLE WITH FORCE MAIN TIE IN MUST BE LINED. SEE CITY OF CLERMONT APPROVED PRODUCT LIST.

10. NO DROP SHALL BE GREATER THAN 15 FEET.

LATERALS

1. ALL SERVICE LATERALS AND FITTINGS SHALL BE A MINIMUM OF 6" IN DIAMETER.
2. ALL LATERALS SHALL TERMINATE WITH A 4" CLEAN-OUT AT THE PROPERTY LINE, AND AT A DEPTH TO FINAL GRADE OF 3 FEET. SEE DETAILS FOR LOCATION.
3. THE END OF EACH SERVICE CONNECTION SHALL BE MARKED WITH A 2"x2"x2" ABOVE GRADE WOODEN STAKE OR APPROVED MARKER AND CURB MARKED WITH A '5'.

FORCEMAINS

1. FORCEMAINS SHALL BE CLASS 350 EPOXY 401 LINED DIP. DIP PIPE SHALL HAVE INTEGRAL BELL PUSH ON TYPE JOINTS CONFORMING TO ASTM D3139.

2. ALL FITTINGS SHALL BE MECHANICAL JOINT DUCTILE IRON WITH 250 PSI MINIMUM PRESSURE RATING. SUITABLE COUPLINGS COMPLYING WITH ASTM SPECIFICATIONS ARE REQUIRED FOR JOINING DISSIMILAR MATERIALS.

3. 3" METALLIC LOCATOR TAPE SHALL BE BURIED IN THE WATER MAIN TRENCH 18" DIRECTLY ABOVE THE WATER MAIN. A CONTINUOUS COPPER DETECTOR WIRE SHALL BE ATTACHED AS SHOWN ON THE WATER DETAIL SHEET.

4. ALL MAINS SHALL HAVE A MINIMUM COVER OF THREE (3) FEET.

5. ALL CONNECTIONS TO EXISTING SEWER FORCEMAINS SHALL BE ACCOMPLISHED WITH A WET TAP AND RESTRAINTS.

6. PROVIDE JOINT RESTRAINT AS SHOWN ON THE WATER DETAIL SHEET.

7. AIR RELEASE AND VACUUM VALVE PRODUCTS SHALL ADHERE TO CITY OF CLERMONT APPROVED PRODUCT LIST.

TESTING

1. SEWAGE COLLECTION SYSTEM
   - A. ALL GRAVITY SEWER MAINS REQUIRE LOW PRESSURE AIR TESTING IN ACCORDANCE WITH THE LATEST UNI-BELL STANDARD FOR LOW PRESSURE AIR TESTS. AIR TESTS, AS A MINIMUM, SHALL CONFORM TO THE TEST PROCEEDURES DESRIBED IN ASTM SPECIFICATIONS, ASTM F1417 FOR PLASTIC PIPE.
   - B. ALL SEWER MAINS AND LATERALS SHALL BE VIDEO INSPECTED BY A CITY APPROVED VENDOR.
   - C. ALL MANHOLES SHALL BE INSPECTED FOR INFILTRATION, ALIGNMENT, FLOW CHANNEL CONSTRUCTION AND COAL TAR EPOXY PAINT THROUGHOUT.
   - D. HYDRO-STATIC TESTS CONSISTING OF A HYDROSTATIC PRESSURE TEST AND HYDROSTATIC LEAKAGE TEST SHALL BE CONDUCTED ON ALL NEWLY INSTALLED SEWER FORCE MAIN SYSTEM PRESSURE PIPES AND APPURTENANCES IN ACCORDANCE WITH AWWA C600 OR M23 AS APPLICABLE. THE PRESSURE SHALL BE 150 PSI FOR TWO (2) HOURS.
   - E. DEFLECTION TESTS ARE REQUIRED FOR ALL FLEXIBLE PIPE. TESTS SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.

TEMPORARY JUMPER CONNECTION NOTES

A TEMPORARY JUMPER CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING ACTIVE WATER MAINS AND PROPOSED NEW WATER MAIN IMPROVEMENTS. THE DETAIL PROVIDED IS TO BE USED FOR FILLING ANY NEW WATER MAIN OF ANY SIZE FROM EXISTING ACTIVE WATER MAINS AND FOR FLUSHING OF NEW MAINS UP TO 8" DIAMETER (2.5 FPS MINIMUM VELOCITY) AND FOR TAKING BACTERIOLOGICAL SAMPLES FROM ANY NEW WATER MAIN OF ANY SIZE. THE JUMPER CONNECTION SHALL BE MAINTAINED UNTIL AFTER FILLING, FLUSHING, TESTING AND DISINFECTING OF THE NEW MAIN HAS BEEN SUCCESSFULLY COMPLETED AND CLEARANCE FOR USE HAS BEEN OBTAINED FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND OTHER PERTINENT AGENCIES HAS BEEN RECEIVED BY THE CITY OF CLERMONT. THIS JUMPER CONNECTION SHALL ALSO BE USED TO MAINTAIN A MINIMUM LEVEL OF DISINFECTION AND UNTIL THE FDEP CLEARANCE LETTER IS OBTAINED AND THE LINES ARE PLACED INTO SERVICE.

ADEQUATE RESTRAINTS SHALL BE PROVIDED TEMPORARILY, AS REQUIRED.

PIPE AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE EXISTING PIPE SHALL BE DISINFECTED PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C651, 1992 EDITION. THE TAPPING SLEEVE AND THE EXTERIOR OF THE MAIN TO BE TAPPED SHALL BE DISINFECTED BY SPRAYING OR SWABBING PER SECTION II OF AWWA C651-92.

FLUSHING OF ALL WATER MAINS SAHLL BE DONE THROUGH THE TIE-IN VALVE UNDER CONTROLLED CONDITIONS BY THE CITY ONLY. FULL BORE FLUSH IS REQUIRED. THE FOLLOWING PROCEEDURES SHALL BE FOLLOWED:

A. THE TIE-IN VALVES SHALL BE OPERATED ONLY BY THE CITY AND PRESSURE TESTED IN THE PRESENCE OF THE CITY AND ENGINEER TO VERIFY WATER TIGHTNESS PRIOR TO TIE-IN. VALVES WHICH ARE NOT WATERTIGHT SHALL BE REPLACED OR A NEW VALVE INSTALLED IMMEDIATELY ADJACENT TO THE LEAKING VALVE.

B. THE TEMPORARY JUMPER CONNECTION SHALL BE CONSTRUCTED AS DETAILED. THE JUMPER CONNECTION SHALL BE USED TO FILL THE NEW WATER MAIN, FOR PROVIDING WATER FOR BACTERIOLOGICAL SAMPLING OF THE NEW MAIN AS REQUIRED BY THE FDEP PERMIT AND FOR MAINTAINING CHLORINE RESIDUALS IN THE MAINS.
   1. FLUSHING SHALL NOT BE ATTEMPTED DURING PEAK DEMAND HOURS OF THE EXISTING WATER MAIN.
   2. ALL DOWNSTREAM VALVES IN THE NEW SYSTEM MUST BE OPEN PRIOR TO THE CITY OPENING THE TIE-IN VALVE.
   3. PROVIDE FOR AND MONITOR THE PRESSURE AT THE TIE-IN POINT. THE PRESSURE IN THE EXISTING MAIN MUST NOT DROP BELOW 35 PSI.
   4. TIE-IN VALVE SHALL BE OPENED BY THE CITY A FEW TURNS ONLY, ENSURING A PRESSURE DROP ACROSS THE VALVE IS ALWAYS GREATER THAN 10 PSI.

C. THE TIE-IN VALVE SHALL BE LOCKED CLOSED BY THE CITY UNTIL THE FLUSHING BEGINS.

D. THE TIE-IN VALVE SHALL BE OPENED ONLY BY THE CITY FOR FLUSHING OF THE NEW MAIN. THE PROCEEDURE SHALL BE DONE BY THE CITY AND OBSERVED BY THE ENGINEER.

E. AFTER FLUSHING, THE TIE-IN VALVE SHALL BE CLOSED AND LOCKED IN THE CLOSE POSITION BY THE CITY. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION DEMONSTRATING THAT THE RPZ BACK FLOW PREVENTION DEVICE HAS BEEN TESTED WITHIN ONE YEAR AT THE TIME OF INSTALLATION, AND IS IN GOOD WORKING ORDER AT THE TIME OF INSTALLATION. THE TEST SHALL BE PERFORMED BY A CERTIFIED BACK FLOW PREVENTION TECHNICIAN AS APPROVED BY THE CITY OF CLERMONT CROSS-CONNECTION CONTROL PROGRAM. A CERTIFICATE IS REQUIRED BY THE CITY.

EXCEPT AS REQUIRED TO FLUSH LINES TIE-IN VALVE SHALL REMAIN CLOSED AND SHALL BE LOCKED IN THE CLOSE POSITION BY THE CITY. THE TIE-IN VALVE SHALL REMAIN LOCKED CLOSED UNTIL THE NEW SYSTEM HAS BEEN CLEARED FOR USE BY FDEP AND ALL OTHER AGENCIES. UPON RECEIPT OF CLEARANCE FOR USE FROM FDEP AND ALL OTHER AGENCIES, THE CONTRACTOR SHALL REMOVE THE TEMPORARY JUMPER CONNECTION. THE CORPORATION STOPS ARE TO BE CLOSED AND PLUGGED WITH 2" BRASS PLUGS. THERE BE NO LEAKAGE.

ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION AND ASSOCIATED BACK FLOW PREVENTION DEVICE, FITTINGS, VALVES, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

WATER METERS SHALL BE PAID FOR AT THE CITY HALL AND SHALL BE DELIVERED TO THE JOB SITE BY THE UTILITIES DEPARTMENT.

FIRE HYDRANTS

FIRE HYDRANTS SHALL CONFORM TO THE LATEST EDITION OF AWWA C502.85 AND SHALL BE FURNISHED COMPLETE WITH WRENCH AND OTHER APPURTENANCES. MANUFACTURER'S CERTIFICATION OF COMPLIANCE WITH AWWA C502 AND TESTS LISTED THEREIN WILL BE REQUIRED. ALL HYDRANTS SHALL BE BREAKAWAY TYPE, WITH THE BREAKAWAY SECTION LOCATED SLIGHTLY ABOVE THE FINISH GROUND LINE. HYDRANTS SHALL CONTAIN TWO, TWO AND ONE-HALF INCH (2-1/2") HOSE CONNECTIONS, AND ONE, FOUR AND ONE-HALF INCH (4-1/2") STEAMER CONNECTION WITH NATIONAL STANDARD FIRE HOSE COUPLING SCREW THREADS, FIVE AND ONE-QUARTER INCH (5-1/4") VALVE OPENING, SIX INCH (6") DIAMETER MECHANICAL JOINT INLET, ONE AND ONE-HALF INCH (1-1/2") PENTAGON OPERATING NUT. SHALL OPEN COUNTERCLOCKWISE. HYDRANT MUST BE PAINTED AT FACTORY BY THE MANUFACTURER AND SHALL BE PAINTED IN CONFORMANCE WITH CITY OF CLERMONT REQUIREMENTS (COLORS BASED ON DELIVERED FIRE FLOW). HYDRANTS SHALL BE MUELLER CENTRON (TRAFFIC MODEL A-423) & AMERICAN (B84B-5 TRAFFIC MODEL) OR SEE CLERMONT'S LIST OF APPROVED PRODUCTS VIA THE CITY'S WEBSITE. NO SUBSTITUTE. FIRE HYDRANTS TO BE THE BREAK AWAY TYPE WITH A CAST IRON DUCTILE IRON MECHANICAL JOINT HYDRANT TEE, WITH RESILIENT SEAT AND MECHANICAL JOINT GATE VALVE.

FIRE HYDRANTS CONT.

1. BLUE PAVEMENT REFLECTORS SHALL BE PLACED IN THE CENTERLINE OF THE DRIVING LANE CLOSEST TO AND DIRECTLY IN FRONT OF EACH FIRE HYDRANT.

2. A POST-CONSTRUCTION FIRE FLOW TEST SHALL BE CONDUCTED. HYDRANTS SHALL DELIVER THE REQUIRED GPM PER THE CITY OF CLERMONT LAND DEVELOPMENT REGULATIONS WITH A RESIDUAL PRESSURE OF 20 PSI. CONTRACTOR SHALL NOTIFY CITY OF CLERMONT ENGINEERING DEPARTMENT WHEN HYDRANTS ARE READY TO BE FLOW TESTED. FOR FIRE HYDRANTS LOCATED WITHIN THE CITY OF CLERMONT, CONNECTED TO THE CITY OF CLERMONT'S WATER SYSTEM, AND/OR LOCATED WITHIN CLERMONT FIRE DEPARTMENT'S PROTECTION AREA, THIS TEST SHALL BE CONDUCTED BY CITY OF CLERMONT PERSONNEL. THIS TEST SHALL BE PROVIDED BY THE CONTRACTOR FOR LOCATIONS NOT INCLUDED ABOVE. THIS TEST MAY BE WITNESSED BY THE OWNER/OPERATOR IF REQUESTED AT TIME OF NOTIFICATION THAT HYDRANTS ARE READY FOR FLOW TEST.

3. IF A PERMIT FOR THE WATER SYSTEM IS REQUIRED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP), THE SYSTEM SHALL BE ACCEPTED AND APPROVED BY DEP PRIOR TO BEING PRESSURIZED OFF OF THE CITY SYSTEM AND PRIOR TO ANY FLOW TESTS BEING CONDUCTED.

4. FIRE HYDRANTS AND FIRE PROTECTION APPLIANCES SHALL BE KEPT ACCESSIBLE TO THE FIRE DEPARTMENT AT ALL TIMES. THE FOLLOWING CLEARANCES SHALL BE MAINTAINED FOR ALL FIRE HYDRANTS AND FIRE PROTECTION APPLIANCES. CLEAR PATH TO FRONT AND A 36" CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF FIRE HYDRANTS. NO PERSON SHALL PLACE OR KEEP ANY POST, FENCE, VEHICLE, GROWTH, VEGETATION, TRASH OR STORAGE OF OTHER MATERIALS THAT WOULD OBSTRUCT A FIRE HYDRANT OR FIRE PROTECTION APPLIANCE AND HINDER OR PREVENT ITS IMMEDIATE USE BY FIRE DEPARTMENT PERSONNEL. SUCH FIRE HYDRANT OR FIRE PROTECTION APPLIANCE SHALL BE KEPT READILY VISIBLE AT ALL TIMES.

5. FIRE HYDRANTS SHALL NOT BE LOCATED CLOSER THAN THREE (3) FEET TO OR MORE THAN TWENTY (20) FEET FROM THE EDGE OF A STREET, DRIVE OR OTHER ACCESSWAY. UNLESS OTHERWISE REQUESTED BY THE FIRE OFFICIAL, THE 4-1/2" CONNECTION SHALL FACE THE NEAREST ROADWAY, OR IF LOCATED WITHIN A COMPLEX PARKING AREA, SHALL FACE THE NEAREST TRAFFIC WAY. NO HYDRANT SHALL BE INSTALLED WHERE PEDESTRIAN OR VEHICULAR TRAFFIC WOULD INTERFERE WITH THE USE OF THE HYDRANT. THE STANDARD FIRE HYDRANT APPROVED FOR USE IN THE CITY CAN BE FOUND IN THE CITY'S LIST OF APPROVED PRODUCTS VIA THE CITY'S WEBSITE. THE CITY'S STANDARD FIRE HYDRANT DETAIL AND NOTES ARE AVAILABLE FROM THE CITY ENGINEER'S OFFICE AND MUST BE INCLUDED IN THE SITE PLANS. ALL FIRE HYDRANTS AND MAINS, INCLUDING THOSE PRIVATELY OWNED, THAT ARE CONNECTED TO THE CITY'S POTABLE WATER SYSTEM, SHALL CONFORM TO CITY STANDARDS.

6. A MINIMUM NUMBER OF FIRE HYDRANTS SHALL BE PROVIDED AND/OR AVAILABLE TO PROVIDE EQUAL TO OR GREATER THAN THE NEEDED FIRE FLOW FOR ALL BUILDINGS ON THE SITE BASED ON THE FOLLOWING CREDITS: HYDRANT(S) WITHIN 300 FEET OF THE BUILDING, 1,000 GPM CREDIT; HYDRANT(S) 301 TO 600 FEET, 670 GPM CREDIT; HYDRANT(S) 601 TO 1,000 FEET, 250 GPM CREDIT.

7. FIRE HYDRANTS THAT HAVE NOT BEEN TESTED AND PLACED INTO SERVICE MUST BE CLEARLY MARKED AS 'OUT OF SERVICE' USING INDUSTRY ACCEPTED METHODS (BAGGING, TAGGING, ETC).

CONNECTIONS TO CITY WATER MAINS

ALL DOUBLE DETECTOR CHECK VALVE ASSEMBLIES (DDCV) INSTALLED TO ISOLATE A PRIVATE FIRE SYSTEM SUPPLYING FIRE HYDRANTS FROM THE CITY'S POTABLE WATER SYSTEM SHALL HAVE TAMPER SWITCH DEVICES INSTALLED ON THE DDCV ASSEMBLY VALVES WHENEVER ANY AUTOMATIC FIRE SPRINKLER SYSTEM IS INSTALLED BEYOND THE DDCV. THESE TAMPER SWITCHES SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM FOR ALL INDIVIDUAL BUILDINGS PROTECTED BY A FIRE SPRINKLER SYSTEM.

FIRE DEPARTMENT CONNECTIONS

ANY FIRE DEPARTMENT CONNECTION SIAMESE (FDC) FOR FIRE SPRINKLER OR STANDPIPE SYSTEMS MUST BE WITHIN 100 FEET OF A FIRE HYDRANT. THE FDC MAY BE INSTALLED DIRECTLY ON THE DOUBLE DETECTOR CHECK VALVE BACK FLOW PREVENTOR AS LONG AS THE REQUIREMENT TO BE WITHIN 100 FEET OF A FIRE HYDRANT IS COMPLIED WITH. FIRE DEPARTMENT CONNECTIONS SHALL BE IDENTIFIED BY A SIGN THAT STATES, "NO PARKING FIRE DEPARTMENT CONNECTION" AND SHALL BE DESIGNED IN ACCORDANCE WITH FDOT STANDARDS FOR INFORMATION SIGNAGE. THE LOCATION OF ANY FDC MUST BE SHOWN ON THE SITE PLANS UTILITY SHEET. CLERMONT REQUIRES APPROVED LOCKING FDC CAPS.

DEDICATED FIRE MAINS

1. THE "POINT OF SERVICE" FOR ANY FIRE MAIN MUST BE CALLED OUT ON THE UTILITY SHEET OF THE SITE PLANS. THIS IS THE POINT WHERE A WATER LINE BECOMES DEDICATED TO ONLY FIRE PROTECTION, SUCH AS SUPPLYING ONLY A FIRE HYDRANT OR FIRE SPRINKLER SYSTEM, AND THERE IS NO POTABLE WATER SUPPLY COMING OFF OF THE WATER LINE BEYOND THIS POINT.
2. LABEL DEDICATED FIRE MAINS AT "FL" ON THE SUBMITTED PLANS.
3. FIRE MAINS WILL BE SEPARATELY PERMITTED AND INSPECTED BY THE CITY FIRE DEPARTMENT.

FIRE DEPARTMENT ACCESS

FIRE DEPARTMENT ACCESS ROADS SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH THE FLORIDA FIRE PREVENTION CODE AND RULES ESTABLISHED BY THE CITY OF CLERMONT FOR EVERY FACILITY, BUILDING, OR PORTION OF A BUILDING HEREAFTER CONSTRUCTED OR RELOCATED. A FIRE DEPARTMENT ACCESS ROAD SHALL EXTEND TO WITHIN 50 FEET (15 m) OF AN EXTERIOR DOOR PROVIDING ACCESS TO THE INTERIOR OF THE BUILDING. FIRE DEPARTMENT ACCESS ROADS SHALL BE PROVIDED SUCH THAT IN ANY PORTION OF THE FACILITY OR ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY OF A BUILDING IS LOCATED NOT MORE THAN 150 FEET (46 m) FROM FIRE DEPARTMENT ACCESS ROADS AS MEASURED BY A ROUTE APPROVED BY THE LOCAL FIRE OFFICIAL AROUND THE EXTERIOR OF THE BUILDING OR FACILITY (THE DISTANCE SHALL BE PERMITTED TO BE INCREASED TO 450 FEET WHEN BUILDINGS ARE PROTECTED WITH AN APPROVED AUTOMATIC FIRE SPRINKLER SYSTEM THAT IS INSTALLED IN ACCORDANCE WITH NFPA STANDARDS).

FIRE DEPARTMENT ACCESS ROADS SHALL HAVE AN UNOBSTRUCTED WIDTH OF NOT LESS THAN 20 FEET (6.1 m),

AN UNOBSTRUCTED VERTICAL CLEARANCE OF NOT LESS THAN 13 FEET 6 INCHES (4.1m), SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE APPARATUS (MINIMUM 32 TONS), AND SHALL BE PROVIDED WITH A SURFACE SUITABLE FOR ALL-WEATHER DRIVING CAPABILITIES. THE TURNING RADIUS OF A FIRE DEPARTMENT ACCESS ROAD SHALL BE AS APPROVED BY THE AHJ. DEAD-END FIRE DEPARTMENT ACCESS ROADS IN EXCESS OF 150 FEET (46 m) IN LENGTH SHALL BE PROVIDED WITH APPROVED PROVISIONS FOR THE TURNING AROUND OF FIRE APPARATUS. WHEN A BRIDGE IS REQUIRES TO BE USED AS PART OF FIRE DEPARTMENT ACCESS ROAD, IT SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH NATIONALLY RECOGNIZED STANDARDS. THE BRIDGE SHALL BE DESIGNED FOR A LIVE LOAD SUFFICIENT TO CARRY THE IMPOSED LOADS OF FIRE APPARATUS (MINIMUM 32 TONS). THE ANGLE OF APPROACH AND DEPARTURE FOR ANY MEANS OF FIRE DEPARTMENT ACCESS SHALL NOT EXCEED 1 FOOT DROP IN 20 FEET (0.3 m DROP IN 6 m), AND THE DESIGN LIMITATIONS OF THE FIRE APPARATUS OF THE FIRE DEPARTMENT SHALL BE SUBJECT TO APPROVAL BY THE AHJ. THE LOAD RATING OF FIRE DEPARTMENT ACCESS ROADS AND BRIDGES SERVING DETACHED ONE OR TWO-FAMILY OCCUPANSIES ONLY MAY BE DECREASED UPON APPROVAL BY THE LOCAL FIRE OFFICIAL.

THE REQUIRED WIDTH OF A FIRE DEPARTMENT ACCESS ROAD SHALL NOT BE OBSTRUCTED IN ANY MANNER, INCLUDING BY THE PARKING OF VEHICLES. MINIMUM REQUIRED WIDTHS AND CLEARANCES SHALL BE MAINTAINED AT ALL TIMES. ENTRANCES TO ROADS, TRAILS, OR OTHER ACCESSWAYS THAT HAVE BEEN CLOSED WITH GATES AND BARRIERS SHALL NOT BE OBSTRUCTED BY PARKED VEHICLES. FIRE LANE MARKINGS MUST BE INSTALLED IN ANY LOCATIONS WHERE VEHICLES MAY PARK AND BLOCK TRAFFIC WAYS OR FREE AND CLEAR ACCESS FOR FIRE AND EMERGENCY APPARATUS.

FIRE LANE MARKINGS ON THE PAVEMENT MUST BE IN DOT YELLOW AND INCLUDE A CROSSHATCH AREA THAT EXTENDS A MINIMUM OF THREE FEET OUT FROM THE CURB. ANY CURBS MUST ALSO BE PAINTED DOT YELLOW OR RED. MARKED TRAFFIC SURFACES MUST HAVE THE WORDS, FIRE LANE – NO PARKING, PAINTED ON THE SURFACE. THIS WORDING MUST REPEAT THE ENTIRE LENGTH OF THE FIRE LANE, AND BE SPACED NO MORE THAN 50 FEET APART. WORDING ON PAVED SURFACES MUST BE A MINIMUM OF 10" TALL. ANY REQUIRED FIRE LANES SHALL BE MARKED WITH SIGNS WITH THE WORDING, "NO PARKING FIRE LANE BY ORDER OF THE FIRE DEPARTMENT." SUCH SIGNS SHALL BE 12 INCHES BY 18 INCHES WITH A WHITE BACKGROUND AND RED LETTERS AND SHALL BE A MAXIMUM OF 7 FEET IN HEIGHT FROM THE ROADWAY TO THE BOTTOM PART OF THE SIGN. THE SIGNS SHALL BE WITHIN SIGHT OF THE TRAFFIC FLOW AND BE A MAXIMUM OF 50 FEET APART.

A 20' x 20' CROSS-HATCH AREA MUST BE INDICATED ON THE PAVEMENT IN FRONT OF AND CENTERED ON HYDRANTS ANY FIRE DEPARTMENT CONNECTIONS FOR FIRE SPRINKLER OR STANDPIPE SYSTEMS THAT ARE LOCATED ON BUILDINGS OR IN PARKING LOTS WHERE VEHICLES MAY PARK AND BLOCK CLEAR ACCESS TO THE CONNECTION. THE CROSS-HATCH AREA MUST INCLUDE WORDING AS SPECIFIED ABOVE. A SIGN INDICATING "NO PARKING FIRE DEPARTMENT CONNECTION" MUST BE INSTALLED IN THIS AREA.

THE CURB MUST BE PAINTED DOT YELLOW, FOR A LENGTH OF 30 FEET CENTERED ON ANY FIRE OR FIRE DEPARTMENT SIAMESE CONNECTIONS THAT ARE INSTALLED ALONG A PARKING LOT, DRIVE OR STREET TO PREVENT VEHICLES FROM PARKING WITHIN 15 FEET OF THE HYDRANT OR CONNECTION. WORDING MUST BE PAINTED ON CURBS IN THESE AREAS INDICATING "NO PARKING FIRE LANE" AND MUST BE A MINIMUM OF 3" TALL.

BUILDING MARKINGS

ADDRESS NUMERALS SHALL NOT BE LESS THAN THREE INCHES IN HEIGHT FOR RESIDENTIAL BUILDINGS, STRUCTURES OR PORTIONS THEREOF, AND AT LEAST SIX INCHES IN HEIGHT FOR ALL OTHER BUILDINGS, STRUCTURES OR PORTIONS THEREOF. ADDRESS NUMERALS SHALL BE ARABIC NUMERALS OR ALPHABET LETTERS, NO CURSIVE LETTERS.

COMMERCIAL BUILDINGS

"KEY LOCK BOX APPROVED BY A CITY FIRE OFFICIAL" WILL BE REQUIRED ON ALL COMMERCIAL BUILDINGS (NFPA 1, CODE CHAPTER 3-6 AS ADAPTED IN THE FLORIDA FIRE PREVENTION CODE THROUGH FLORIDA ADMINISTRATIRVE CHAPTER 4A-60.003, RULES OF THE STATE FIRE MARSHAL, AND AUTHORIZED BY FLORIDA STATUTES 633.0215, 633.025). THESE SHALL BE INSTALLED ON THE EXTERIOR WALL OF THE BUILDING WITHIN ONE FOOT OF THE LEFT SIDE OF THE MAIN PUBLIC ENTRANCE DOOR AT A HEIGHT OF SIX (6) FEET. IN THE CASE OF A MULTI-OCCUPANCY BUILDING, SUCH AS A ROW OF STORES, MULTI-OFFICE BUILDING, ETC., ONLY ONE KEY LOCK BOX PER BUILDING WILL BE REQUIRED UNLESS EXTENUATING CIRCUMSTANCES INDICATE THE NEED FOR ADDITIONAL LOCK BOXES. THIS BOX SHALL BE INSTALLED ON THE EXTERIOR WALL OF THE BUILDING WITHIN ONE FOOT OF THE LEFT END OF THE SIDE OF THE BUILDING CONTAINING THE MAIN PUBLIC ENTRANCE (AS YOU ARE FACING THE MAIN ENTRANCE) AT A HEIGHT OF SIX (6) FEET. IN THE CASE OF A MULTI-FAMILY COMPLEX, ONLY ONE KEY LOCK BOX WILL BE REQUIRED FOR THE COMPLEX UNLESS EXTENUATING CIRCUMSTANCES INDICATE THE NEED FOR ADDITIONAL KEY LOCK BOXES. THIS BOX SHALL BE LOCATED AT THE MAIN ENTRANCE TO THE CLUBHOUSE, INSTALLED AS INDICATED ABOVE FOR COMMERCIAL BUILDINGS. IF THERE IS NO CLUBHOUSE, THE BOX SHALL BE INSTALLED PER A CITY FIRE OFFICIAL. A CITY FIRE OFFICIAL MAY BE CONTACTED IF IT IS NOT POSSIBLE TO INSTALL THE BOX AT THE LOCATIONS INDICATED ABOVE. THE CITY FIRE OFFICIAL WILL MAKE A DETERMINATION AS TO THE LOCATION WHERE THE BOX WILL BE INSTALLED.

LOCK BOXES SHALL CONTAIN KEYS TO THE BUILDING (INCLUDING ENTRANCE DOORS AND ALL ELECTRICAL AND MECHANICAL ROOMS) AND ANY SYSTEMS IN THE BUILDING (SUCH AS FIRE ALARM PANELS, FIRE ALARM PULL STATIONS, SMOKE DETECTOR RESET, SPRINKLER SYSTEMS, ELEVATORS, ETC.). BOXES FOR MULTI-OCCUPANCY BUILDINGS AND MULTI-FAMILY COMPLEXES SHALL BE OF SUFFICIENT SIZE TO ACCOMMODATE KEYS FOR EACH INDIVIDUAL OCCUPANCY AND MASTER KEYS FOR EACH SEPARATE BUILDING, AS WELL AS ANY SYSTEMS IN ALL OCCUPANCIES AND BUILDINGS. ALL LOCK BOXES SHALL ALSO CONTAIN BUSINESS CARDS WITH AFTER-HOURS EMERGENCY CONTACT NUMBERS FOR EACH OCCUPANCY. THE CODE(S) FOR SILENCING AND RESETTING ANY FIRE ALARM SYSTEMS SHALL BE WRITTEN ON THE BACK OF THE BUSINESS CARD(S) FOR EACH OCCUPANCY.

APPLICATIONS FOR THE PURCHASE OF "KEY LOCK BOX" EQUIPMENT ARE AVAILABLE FROM THE FIRE PREVENTION DEPARTMENT. EACH BOX TO BE INSTALLED WITHIN THE CITY OF CLERMONT & LAKE COUNTY WILL BE KEYED TO ACCOMMODATE CLERMONT & LAKE COUNTY FIRE DEPARTMENT'S LOCK BOX KEY. BUILDING OWNERS OR OCCUPANTS WILL NOT HAVE A KEY TO THE BOX. THE OWNER OR DEVELOPER SHALL NOTIFY THE FIRE PREVENTION DEPARTMENT (352)-241-7318 AFTER THE BOX HAS BEEN INSTALLED AND ALL REQUIRED KEYS ARE AVAILABLE. A FIRE DEPARTMENT REPRESENTATIVE WILL MEET A REPRESENTATIVE OF THE BUILDING AT THE SITE TO LOCK THE KEYS IN THE BOX. WHENEVER ANY KEYS, CODES OR EMERGENCY CONTACT NUMBERS ARE CHANGED, THE FIRE DEPARTMENT SHALL BE NOTIFIED IMMEDIATELY SO A FIRE DEPARTMENT REPRESENTATIVE CAN UNLOCK THE BOX AND REPLACE THE CHANGED ITEMS.

BUILDING MATERIALS

NFPA 241 (STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS) AS ADAPTED IN THE FLORIDA ADMINISTRATIVE CODE (RULES OF THE STATE FIRE MARSHALL) AND THE FLORIDA FIRE PREVENTION CODE, AND AUTHORIZED BY FLORIDA STATE STATUTES, CHAPTER 633, REQUIRES THAT A WATER SUPPLY FOR FIRE PROTECTION SHALL BE MADE AVAILABLE AS SOON AS COMBUSTIBLE MATERIAL ACCUMULATES ON THE SITE AND THAT THERE SHALL BE NO DELAY IN THE INSTALLATION OF FIRE PROTECTION EQUIPMENT. THIS SECTION ALSO STATES, "WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED, COMPLETED AND IN SERVICE PRIOR TO CONSTRUCTION WORK.

EMERGENCY VEHICLE ACCESS CONTROL (EVAC) SYSTEM

THE CITY OF CLERMONT LAND DEVELOPMENT REGULATIONS, SECTION 110-192 (1), REQUIRES THAT ALL GATED COMMUNITIES IN THE CITY OF CLERMONT INSTALL THE "EVAC" (EMERGENCY VEHICLE ACCESS CONTROL) REMOTE GATE OPENING EQUIPMENT ON ALL ENTRY GATES. tHE EVAC SYSTEM SHALL BE IN ADDITION, AND SEPARATE, FROM THE GATE OPENING SYSTEM THAT IS PROVIDED FOR THE RESIDENTS. A KEYPAD CODE ENTRY DEVICE SHALL ALSO BE INSTALLED AT EACH GATE, WITH THE ENTRY CODE SUPPLIED TO THE FIRE DEPARTMENT IN WRITING UPON INSTALLATION. THE DEVELOPER SHALL PROVIDE FIVE (5) CONTROLLERS FOR THE EVAC SYSTEM TO THE CLERMONT FIRE DEPARTMENT. FOR FURTHER REQUIREMENTS REFER TO THE CITY OF CLERMONT LAND DEVELOPMENT REGULATIONS, SECTION 110-192 (1). SECURITY ACCESS CONTROL, 800-637-5945, DISTRIBUTES THE EVAC SYSTEM. SECURITY ACCESS CONTROL MAY BE CONTACTED REGARDING ANY QUESTIONS ABOUT THE SYSTEM OR TO GET INFORMATION ON LOCAL VENDORS THAT CAN INSTALL THE SYSTEM.

NEEDED FIRE FLOW CALCULATIONS

IN ACCORDANCE WITH NFPA1 CHAPTER 18.

GENERAL NOTES AND DETAILS
REVISED
5-30-2023

KPMFranklin
ENGINEERS • PLANNERS • SURVEYORS
6300 HAZELTINE NATIONAL DR,
STE. 118 ORLANDO, FL 32822
PHONE (407)410-8624 COA 32059

ISSUE NO.	DATE:	
2	01/09/2024	CITY OF CLERMONT COMMENTS
1	10/09/2023	CITY OF CLERMONT COMMENTS

STATUS: CONSTRUCTION PLANS

REV NO:	DATE:	
2	01/19/2024	REVISIONS PER CITY OF CLERMONT COMMENTS
1	12/05/2023	REVISIONS PER CITY OF CLERMONT COMMENTS

CITY OF CLERMONT
GENERAL NOTES

WMG - CLERMONT SR 50
CLERMONT, FLORIDA

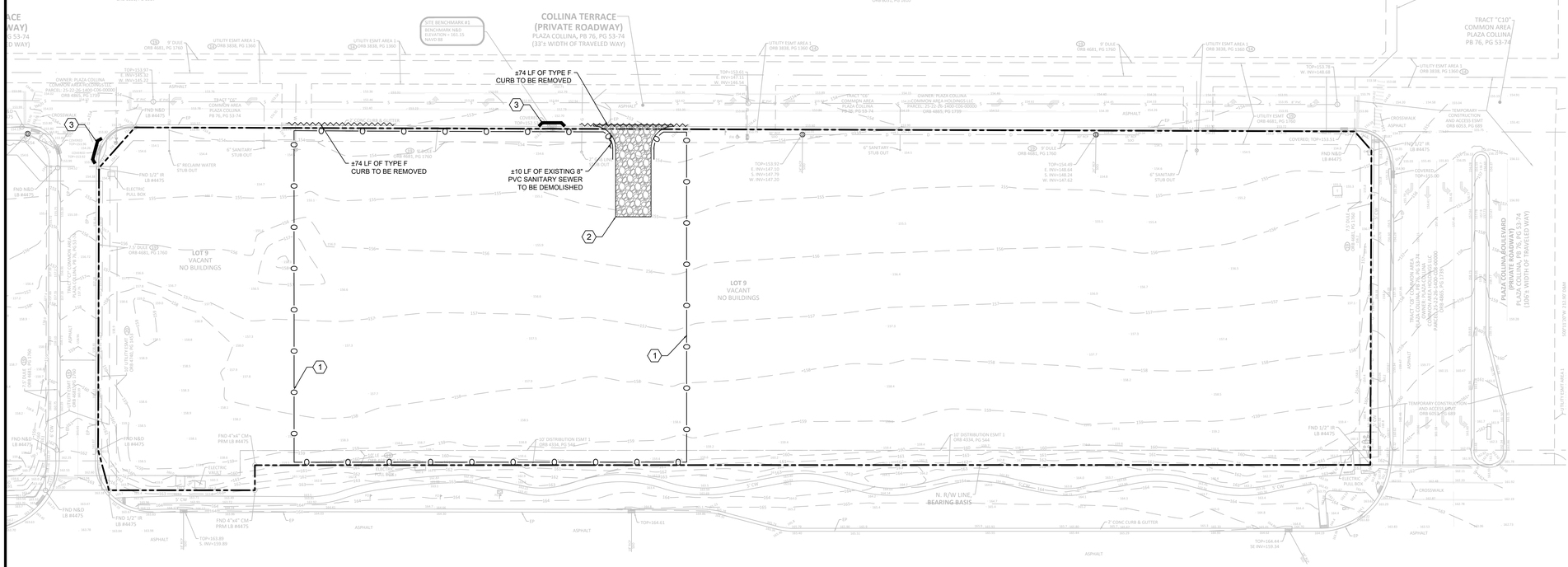
CAUTION
0 1/2 1
IF THIS SCALE BAR DOES NOT MEASURE 1" THE DOCUMENT IS NOT TO SCALE

ALEX T. GOETZ
LICENSE
No. 86837
STATE OF
01/19/2024
FLORIDA
PROFESSIONAL ENGINEER

ALEX T. GOETZ, P.E.
FLORIDA P.E. #86837

JOB NO:	23-0065.000
DESIGN:	M.P.
DRAWN:	M.N.
APPROVED:	A.G.
SHEET NO:	C0.3
REV:	1

(PRIVATE ROADWAY)
PLAZA COLLINA
PB 76, PG 53-74



STATE ROAD 50 (W COLONIAL DRIVE)
(R/W WIDTH VARIES PER R/W MAP SECTION 11070, F.P. NO. 238429 4)
(123'± WIDTH OF TRAVELED WAY)

0 20' 40' 80'

GRAPHIC SCALE
SCALE: 1" = 40'

KEY LEGEND

SYMBOL	DESCRIPTION
1	SILT FENCE
2	CONSTRUCTION ENTRANCE
3	INLET PROTECTION

LEGEND

SYMBOL	DESCRIPTION
—0—	SILT FENCE
	CONSTRUCTION ENTRANCE
	INLET PROTECTION
	LINEAR ELEMENT TO BE REMOVED

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REVISIONS	DESCRIPTION	DATE
2	CITY OF CLERMONT COMMENTS	01/09/2024
1	CITY OF CLERMONT COMMENTS	10/09/2023

STATUS: CONSTRUCTION PLANS

REVISIONS	DESCRIPTION	DATE
2	REVISIONS PER CITY OF CLERMONT COMMENTS	01/19/2024
1	REVISIONS PER CITY OF CLERMONT COMMENTS	12/05/2023

DEMOLITION AND EROSION CONTROL PLAN

WMG - CLERMONT SR 50
CLERMONT, FLORIDA

CAUTION
0 1/2 1
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ALEX T. GOETZ
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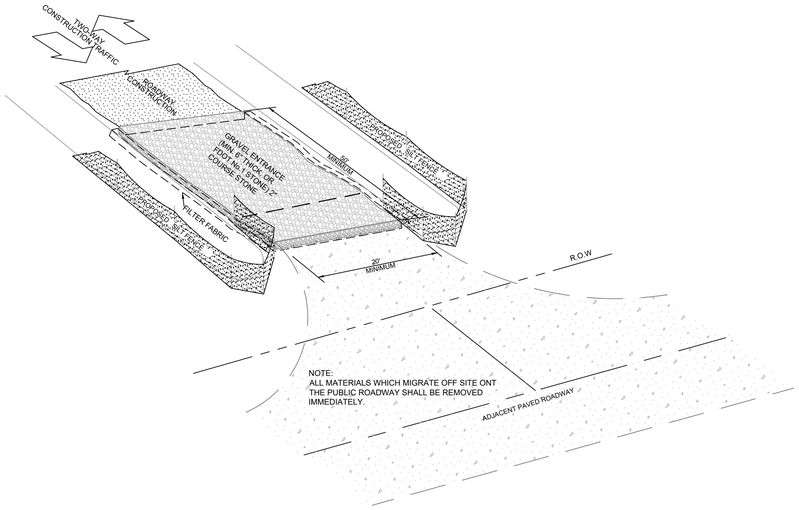
No. 86837
STATE OF FLORIDA
01/19/2024
PROFESSIONAL ENGINEER
ALEX T. GOETZ, P.E.
FLORIDA P.E. #86837

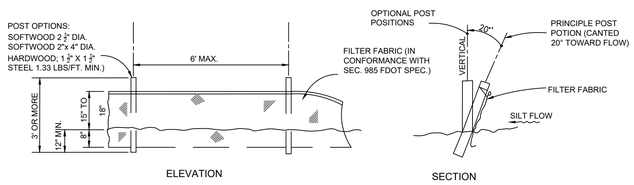
JOB NO:	23-0065.000
DESIGN:	M.P.
DRAWN:	M.N.
APPROVED:	A.G.
SHEET NO:	C0.4
REV:	2

P:\23-0065.000 WMG - CLERMONT SR 50\DESIGN\PLANS\CONSTRUCTION\C0.4_EROSION CONTROL_WMG50.DWG 1/19/2024

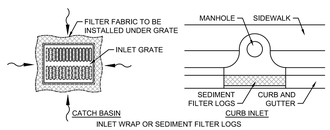


CONSTRUCTION ENTRANCE DETAIL

NTS



SILT FENCE DETAIL



INLET PROTECTION

PROJECT DATA

PROPERTY AREA: 4.54 AC

LOCATION: SECTION 25 TOWNSHIP 22 S, RANGE 26 E
CITY OF CLERMONT, FLORIDA

DRAINAGE PATTERN:

EXISTING: THE EXISTING PROJECT AREA HAS BEEN RECENTLY CLEARED AND MASS GRADED., WATER, SEWER, AND STORM INFRASTRUCTURE IS CURRENTLY BEING INSTALLED FOR THE OVERALL DEVELOPMENT AND TO SERVE THIS PARCEL.

PROPOSED: THE IMPROVEMENTS WILL CONSIST OF MINOR SITE GRADING WITH THE INSTALLATION OF WATER, SEWER, AND SECONDARY DRAINAGE CONNECTING TO THE MASTER STORM WATER SYSTEM. THE SITE WILL BE FINE GRADED AND PARKING FACILITIES WILL BE CONSTRUCTED WITH BASE MATERIAL, ASPHALT PARKING SURFACE, AND CONCRETE CURBING DELINEATING THE LANDSCAPE AREA.

POLLUTION PREVENTION NOTES

CONTRACTOR NOTE:
1. CONTRACTOR SHALL BE RESPONSIBLE FOR FILING THE NPDS NOTICE OF INTENT, PREPARING AND MAINTAINING THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP).

CONSTRUCTION SEQUENCE:
THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:
1. INSTALL STABILIZED CONSTRUCTION ENTRANCE
2. INSTALL SILT FENCES AND HAY BALES AND INLET PROTECTION AS REQUIRED
3. STOCK PILE TOP SOIL IF REQUIRED
4. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED
5. STABILIZE DENUDED AREAS AND STOCKPILES AS SOON AS PRACTICABLE
6. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING
7. REMOVE ACCUMULATED SEDIMENT FROM BASINS
8. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY BMP MEASURES.

SOIL TYPES:
8 - CANDLER FINE SAND, 0 TO 5 PERCENT SLOPES

DEWATERING METHODS AND LOCATIONS:
DEWATERING IS NOT ANTICIPATED FOR THIS PROJECT. HOWEVER, IF REQUIRED, SHALL BE UTILIZED ONLY IF NECESSARY BY MEANS OF A WELL POINT SYSTEM. DISCHARGE FROM THE WELL POINT SYSTEM SHALL BE DIRECTED TO THE EXISTING STORMWATER MANAGEMENT POND. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR WELL POINT SYSTEM PRIOR TO CONSTRUCTION.

EROSION TEMPORARY MEASURES:
A. FILTER FABRIC TO BE INSTALLED UNDER GRATE SHALL BE USED TO PROTECT PROPOSED INLETS PER DETAILS.
B. FILTER FABRIC BARRIERS SHALL BE USED AT THE PERIMETER/LIMITS OF THE PROPOSED CONSTRUCTION TO PREVENT SEDIMENTATION FROM LEAVING THE PROJECT BOUNDARIES OR DISCHARGE INTO OFFSITE DRAINAGE FACILITIES.
C. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE AND INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.
D. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.
E. TEMPORARY SEEDING AND MULCHING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 7 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING. SLOPES STEEPER THAN 6.1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.
F. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.
G. CONTRACTOR SHALL PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE BY INSTALLING AN APPROPRIATE ANTI SOILS TRACKING MEASURES.

PERMANENT EROSION CONTROL MEASURES:
A. PERMANENT SODDING: ALL AREAS, WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL AS A MINIMUM, BE SEEDED, THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED OR SODDED.
B. PERMANENT STORMWATER MANAGEMENT CONTROL: MAINTENANCE OF STORMWATER MANAGEMENT SYSTEM: THE PERMITTED STORMWATER MANAGEMENT SYSTEM SHALL BE MAINTAINED, CLEANED AND INSPECTED IN ACCORDANCE WITH THE SFWMD PERMIT.

INSPECTIONS:
A. CONSTRUCTION SITE WILL BE INSPECTED FOR EROSION PROBLEMS DAILY AND AFTER EACH RAINFALL GREATER THAN 0.5 INCHES. A RAIN GAGE WILL BE ON SITE TO MEASURE THE RAINFALL AMOUNTS.
B. ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATIONS OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.
C. ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
D. BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
E. SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.
F. TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
G. A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS ATTACHED. THE REPORTS WILL BE DEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE, OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS. THE REPORTS SHALL B MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED THE REPORTS SHALL IDENTIFY AND INCIDENTS OF NON-COMPLIANCE.
H. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORTS.

ADDITIONAL NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ANY ADDITIONAL EROSION CONTROL, IF IT BECOMES NECESSARY TO MEET THE STATE AND LOCAL STANDARDS.
2. OPERATOR AND/OR RESPONSIBLE AUTHORITY: CITY OF CLERMONT

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STE. 118 ORLANDO, FL 32822
PHONE (407)410-8624 COA 32059

REV NO	DATE	DESCRIPTION
2	01/09/2024	CITY OF CLERMONT COMMENTS
1	10/09/2023	CITY OF CLERMONT COMMENTS

STATUS: CONSTRUCTION PLANS

REV NO	DATE	DESCRIPTION
2	01/19/2024	REVISIONS PER CITY OF CLERMONT COMMENTS
1	12/05/2023	REVISIONS PER CITY OF CLERMONT COMMENTS

DEMOLITION AND EROSION CONTROL DETAILS

WMG - CLERMONT SR 50
CLERMONT, FLORIDA

CAUTION
0 1/2 1
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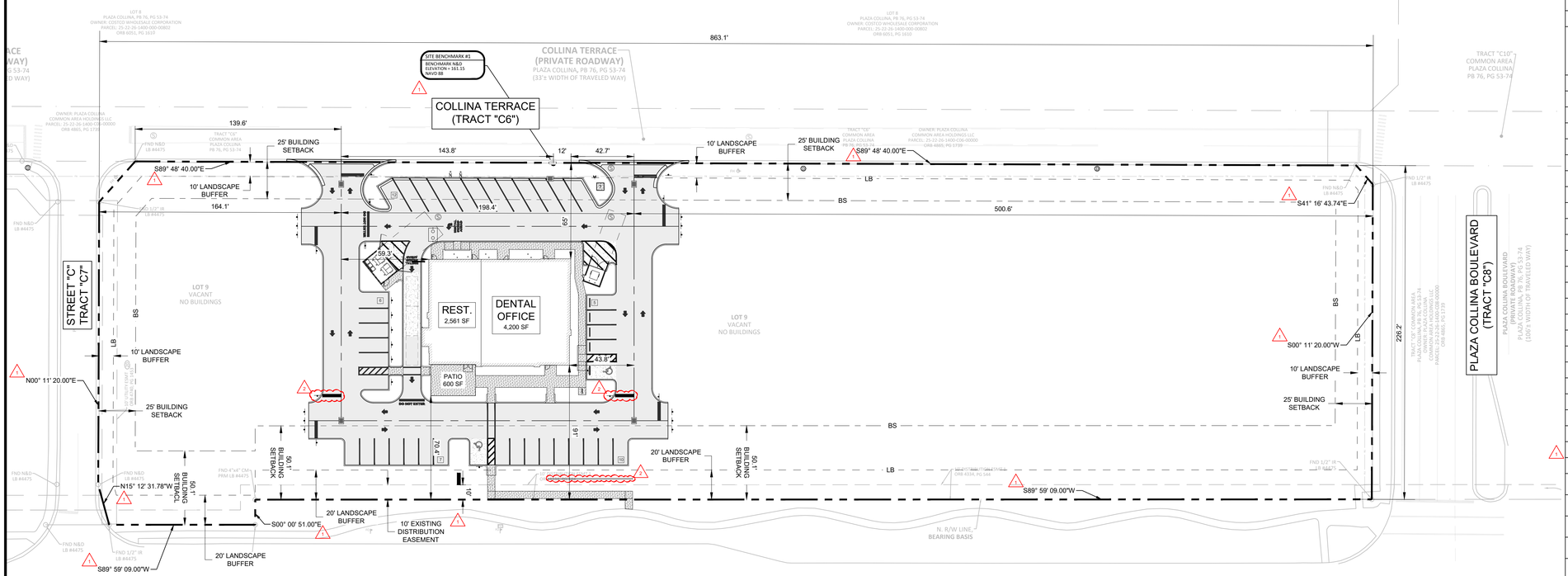
ALEX T. GOETZ LICENSE No. 86837 STATE OF FLORIDA PROFESSIONAL ENGINEER
01/19/2024
ALEX T. GOETZ, P.E.
FLORIDA P.E. #86837

JOB NO:	23-0065.000
DESIGN:	M.P.
DRAWN:	M.N.
APPROVED:	A.G.
SHEET NO:	C0.5
REV:	2

P:\23-0065.000 WMG - CLERMONT SR 50\DESIGN\PLANS\CONSTRUCTION\C04_EROSION CONTROL_WMS50.DWG 1/19/2024



E. LINE TRACT "C11" & E. LINE, PLAZA COLLINA BOULEVARD PLAZA COLLINA PB 76, PG 53-74

0 20' 40' 80'

GRAPHIC SCALE
SCALE: 1" = 40'

SITE DATA

PARCEL ID(S)	25-22-2-1400-000-00900	
PROJECT SITE AREA	4.54 AC.	
EXISTING ZONING	UE - URBAN ESTATE LOW DENSITY RESIDENTIAL DISTRICT	
PROPOSED ZONING	UE - URBAN ESTATE LOW DENSITY RESIDENTIAL DISTRICT	
ADJACENT ZONING	NORTH - UE	
	WEST - UE	
	EAST - UE	
	SOUTH - FDOT ROW	
EXISTING USE	MASTER PLANNED DEVELOPMENT (VACANT)	
FUTURE LAND USE	MASTER PLANNED DEVELOPMENT	
BUILDING CONSTRUCTION TYPE (FBA/NFPA)	TYPE IIB / II(000)	
PROPOSED BUILDING AREA BREAKDOWN	RESTAURANT - 2,561 SF	
	DENTAL OFFICE - 4,200 SF	
	6,761 SF	
MAX ALLOWABLE BUILDING HEIGHT	60 FT.	
PROPOSED BUILDING HEIGHT	25'-4"	
PROPOSED FAR (SF FLOOR AREA / SF LAND)	0.04	
SETBACK/ BUFFER REQUIREMENTS	**BUILDING (FT.)**	**LANDSCAPE (FT.)**
FRONT (SOUTH/ SR 50)	50	20
SIDE (WEST/ TRACT "C7")	25	10
SIDE (EAST/ TRACT "C8")	25	10
REAR (NORTH/ COLLINA TER.)	25	10
PROVIDED SETBACKS/ BUFFERS	**BUILDING (FT.)**	**LANDSCAPE (FT.)**
FRONT (SOUTH/ SR 50)	50	20
SIDE (WEST/ TRACT "C7")	25	10
SIDE (EAST/ PLAZA COLLINA BLVD./ TRACT "C8")	25	10
REAR (NORTH/ COLLINA TER./ TRACT "C6")	25	10

EXISTING IMPERVIOUS / OPEN SPACE AREA BREAKDOWN			
EXISTING OPEN SPACE	197,865 SF.	4.54 AC.	100%
EXISTING IMPERVIOUS AREA (PAVEMENT)	0 SF	0 AC.	0%
PROPOSED IMPERVIOUS / OPEN SPACE AREA BREAKDOWN			
BUILDING FOOTPRINT	7,260 SF.	0.17 AC.	3%
ASPHALT & CONCRETE PAVEMENT/CURBING	32,795 SF.	0.75 AC.	17%
OPEN SPACE	157,810 SF.	3.62 AC.	80%
TOTAL PROPOSED IMPERVIOUS AREA	**40,055 SF.**	**0.92 AC.**	**20%**
TOTAL PROPOSED OPEN SPACE AREA	**157,810 SF.**	**3.62 AC.**	**80%**
TOTAL	**197,865 SF.**	**4.54 AC.**	**100%**

PARKING BREAKDOWN	**REQUIRED**	**PROVIDED**
RESTAURANT (1 PER 4 SEATS, 63 SEATS INDOOR AND OUTDOOR)	16	22
(PLUS 1 SPACE PER 4 EMPLOYEES, 25 EMPLOYEES)	7	7
DENTAL OFFICE (1 PER 4 BEDS, 12 BEDS)	3	3
(PLUS 1 SPACE PER DOCTOR, 2 DOCTORS)	2	2
(PLUS 1 SPACE PER 4 EMPLOYEES, 15 EMPLOYEES)	4	4
HANDICAP	2	2
TOTAL	34	40
BICYCLE PARKING ANALYSIS	**REQUIRED**	**PROVIDED**
BICYCLE PARKING (5% OF FIRST 100 AUTOMOBILE PARKING SPACES, 40 SPACES)	2	2

LANDSCAPE	CITY OF CLERMONT
STORM WATER MANAGEMENT	ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
UTILITIES (WATER, SEWER, IRRIGATION)	CITY OF CLERMONT
LIGHTING	DUKE ENERGY
FIRE PROTECTION	CITY OF CLERMONT

TRIP GENERATION CALCULATION

LAND USE	SIZE / UNITS (KSF)	ITE CODE	DAILY TRIP MULTIPLIER	TOTAL DAILY TRIPS
DENTAL OFFICE	4.20	720	36	151
RESTAURANT	2.60	934	467.48	1150

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REVISION NO	DATE	DESCRIPTION
1	01/09/2024	CITY OF CLERMONT COMMENTS
2	10/09/2023	CITY OF CLERMONT COMMENTS

STATUS: CONSTRUCTION PLANS

REVISION NO	DATE	DESCRIPTION
1	12/05/2023	REVISIONS PER CITY OF CLERMONT COMMENTS
2	01/19/2024	REVISIONS PER CITY OF CLERMONT COMMENTS

OVERALL SITE PLAN

WMG - CLERMONT SR 50
CLERMONT, FLORIDA

CAUTION
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ALEX T. GOETZ, P.E.
FLORIDA P.E. #86837

JOB NO:	23-0065.000
DESIGN:	M.P.
DRAWN:	M.N.
APPROVED:	A.G.
SHEET NO:	C1.0
REV:	2

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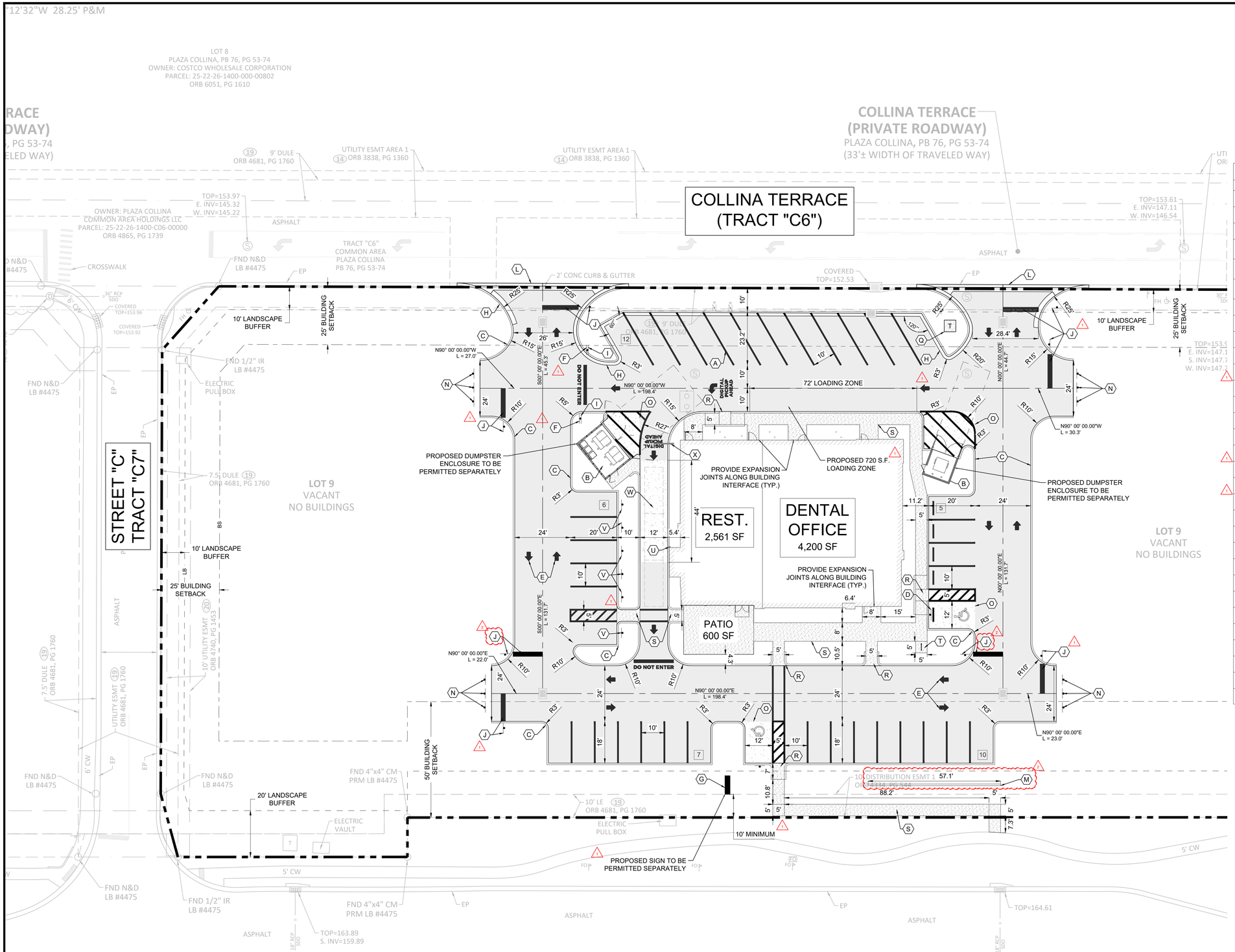

GRAPHIC SCALE
SCALE: 1" = 20'

KEY LEGEND

SYMBOL	DESCRIPTION	DETAILS KEY
	PROPERTY BOUNDARY	N/A
LB	LANDSCAPE BUFFER	N/A
BS	BUILDING SETBACK	N/A
	PROPOSED ASPHALT PAVEMENT	SHEET C4.0
	6" THICK VEHICULAR CONCRETE PAVEMENT	SHEET C4.0
	4" THICK PEDESTRIAN CONCRETE PAVEMENT	SHEET C4.0
A	4" WHITE PAINTED PAVEMENT STRIPE	N/A
B	DUMPSTER PAD & ENCLOSURE	PERMITTED SEPARATELY
C	TYPE D CURB	SHEET C4.0
D	ADA PARKING SIGN & PAVEMENT STRIPING	SHEET C4.0
E	DIRECTIONAL ARROW	N/A
F	R5-1 DO NOT ENTER SIGN	N/A
G	PROPOSED GROUND SIGN	REFER TO ARCH PLANS
H	TYPE F CURB	SHEET C4.0
I	STOP SIGN	N/A
J	STOP BAR & STOP SIGN	SHEET C4.0
K	NOT IN USE	N/A
L	VALLEY GUTTER	FDOT STANDARD PLANS INDEX 520-001
M	2' EXPOSED FACE GRAVITY WALL	FDOT STANDARD PLANS INDEX 400-011
N	OM4-2 END OF ROADWAY SIGN	N/A
O	THICKENED EDGE CONCRETE	SHEET C4.0
P	NOT IN USE	N/A
Q	TRANSFORMER PAD	N/A
R	CURB RAMP	FDOT STANDARD PLANS INDEX 522-002
S	CONCRETE SIDEWALK	SHEET C4.0
T	BIKE RACK	SHEET C4.0
U	BOLLARD	SHEET 4.0
V	TO-GO/ PICK UP SIGN	N/A
W	6" REINFORCED CONCRETE	N/A
X	CLEARANCE BAR	REFER TO ARCH PLANS

NOTE:
HANDRAILS FOR PATIO TO BE PROVIDED BY OTHERS

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REV NO	DESCRIPTION	DATE
2	CITY OF CLERMONT COMMENTS	01/09/2024
1	CITY OF CLERMONT COMMENTS	10/09/2023

STATUS: CONSTRUCTION PLANS

REV NO	DESCRIPTION	DATE
2	REVISIONS PER CITY OF CLERMONT COMMENTS	01/19/2024
1	REVISIONS PER CITY OF CLERMONT COMMENTS	12/05/2023

SITE PLAN

WMG - CLERMONT SR 50
CLERMONT, FLORIDA

CAUTION
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LICENSE
No. 86837
STATE OF FLORIDA
01/19/2024
PROFESSIONAL ENGINEER
ALEX T. GOETZ, P.E.
FLORIDA P.E. #86837

JOB NO:	23-0065.000
DESIGN:	M.P.
DRAWN:	M.N.
APPROVED:	A.G.
SHEET NO:	C1.1
REV:	2

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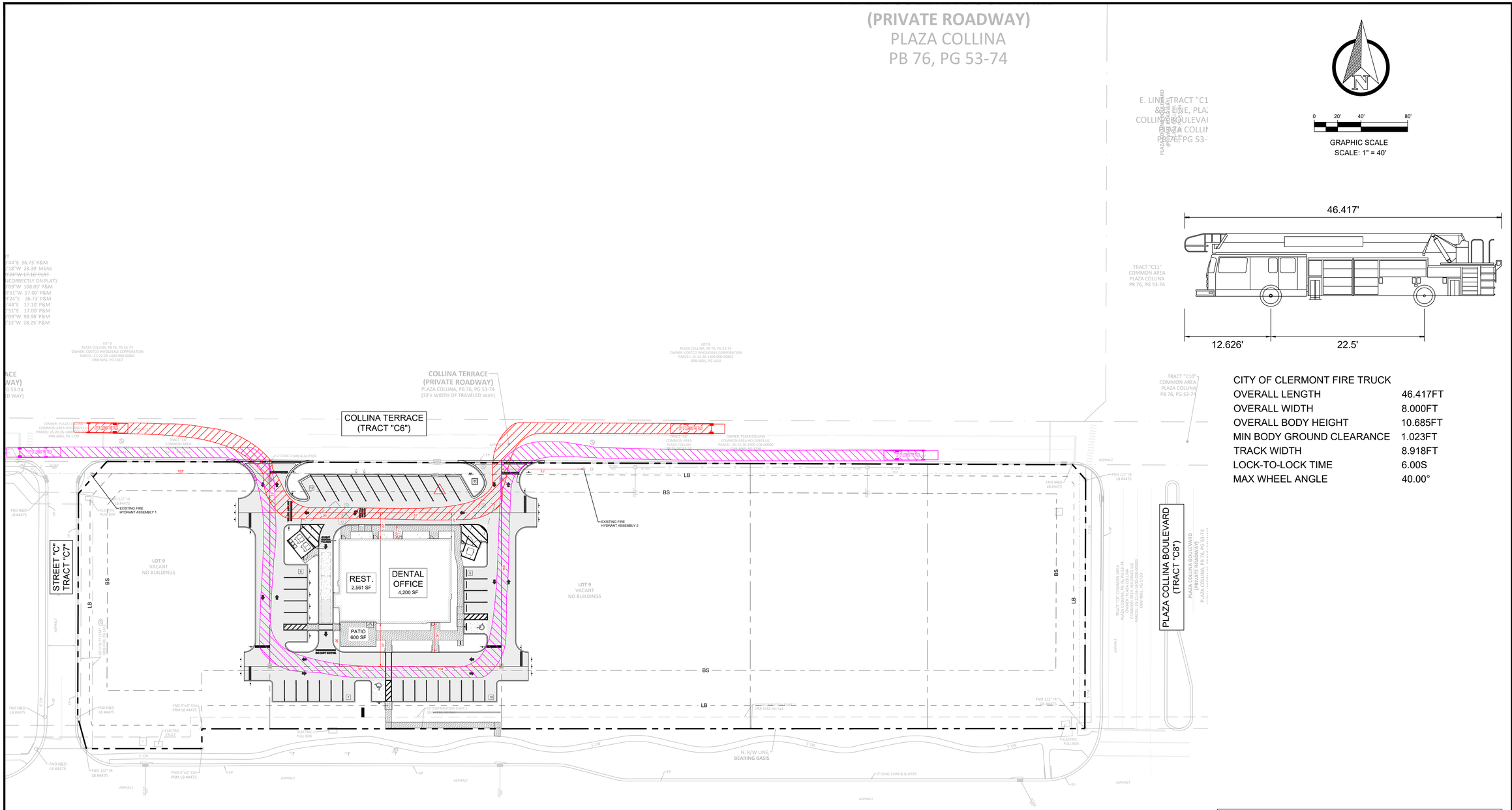
(PRIVATE ROADWAY)
PLAZA COLLINA
PB 76, PG 53-74



0 20' 40' 80'

GRAPHIC SCALE
SCALE: 1" = 40'

CITY OF CLERMONT FIRE TRUCK	
OVERALL LENGTH	46.417FT
OVERALL WIDTH	8.000FT
OVERALL BODY HEIGHT	10.685FT
MIN BODY GROUND CLEARANCE	1.023FT
TRACK WIDTH	8.918FT
LOCK-TO-LOCK TIME	6.00S
MAX WHEEL ANGLE	40.00°

FIRE HYDRANT PLACEMENT (PER NFPA 1, 2021 ED. 7TH FFPC, TABLE 18.5.4.3)

BUILDING	HYDRANT TAG	DISTANCE TO BUILDING (FT.)	MAXIMUM FLOW (GPM)
DENTAL OFFICE	EXISTING HYDRANT 1	364	1,000
	EXISTING HYDRANT 2	381	1,000
	TOTAL AVAILABLE FIRE FLOW		2,000
RESTAURANT	EXISTING HYDRANT 1	303	1,000
	EXISTING HYDRANT 2	416	1,000
	TOTAL AVAILABLE FIRE FLOW		2,000

FIRE FLOW CALCULATIONS (PER NFPA 1, 2021, 7TH ED FFPC)

BLDG.	CONSTRUCTION TYPE	GROSS FLOOR AREA (SF)	MINIMUM REQUIRED FIRE FLOW (GPM)	FLOW DURATION (HRS)	75% REDUCTION FOR SPRINKLER (GPM)	TOTAL REQUIRED FIRE FLOW (GPM)
RESTAURANT	* II(000)	2,561	1,500	2	N/A	1,500
DENTIST	* II(000)	4,200	1,500	2	N/A	1,500
MAXIMUM REQUIRED FIRE FLOW AT BUILDINGS						1,500

(*) BASED ON NFPA 1 (2021) TABLE 18.4.5.2.1, AS REFERENCED IN FLORIDA FFPC, 7TH EDITION. CONSTRUCTION TYPE IIB PER FLORIDA BUILDING CODE.

(**) PER NFPA 1, 2021 7TH EDITION IF THE FFPC SECTION 18.4.5.2.1.

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FIRE TRUCK TURNING MOVEMENT PLAN

WMG - CLERMONT SR 50
CLERMONT, FLORIDA

CAUTION
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FLORIDA P.E. #86837

JOB NO:	23-0065.000
DESIGN:	M.P.
DRAWN:	M.N.
APPROVED:	A.G.
SHEET NO:	C1.2
REV:	2

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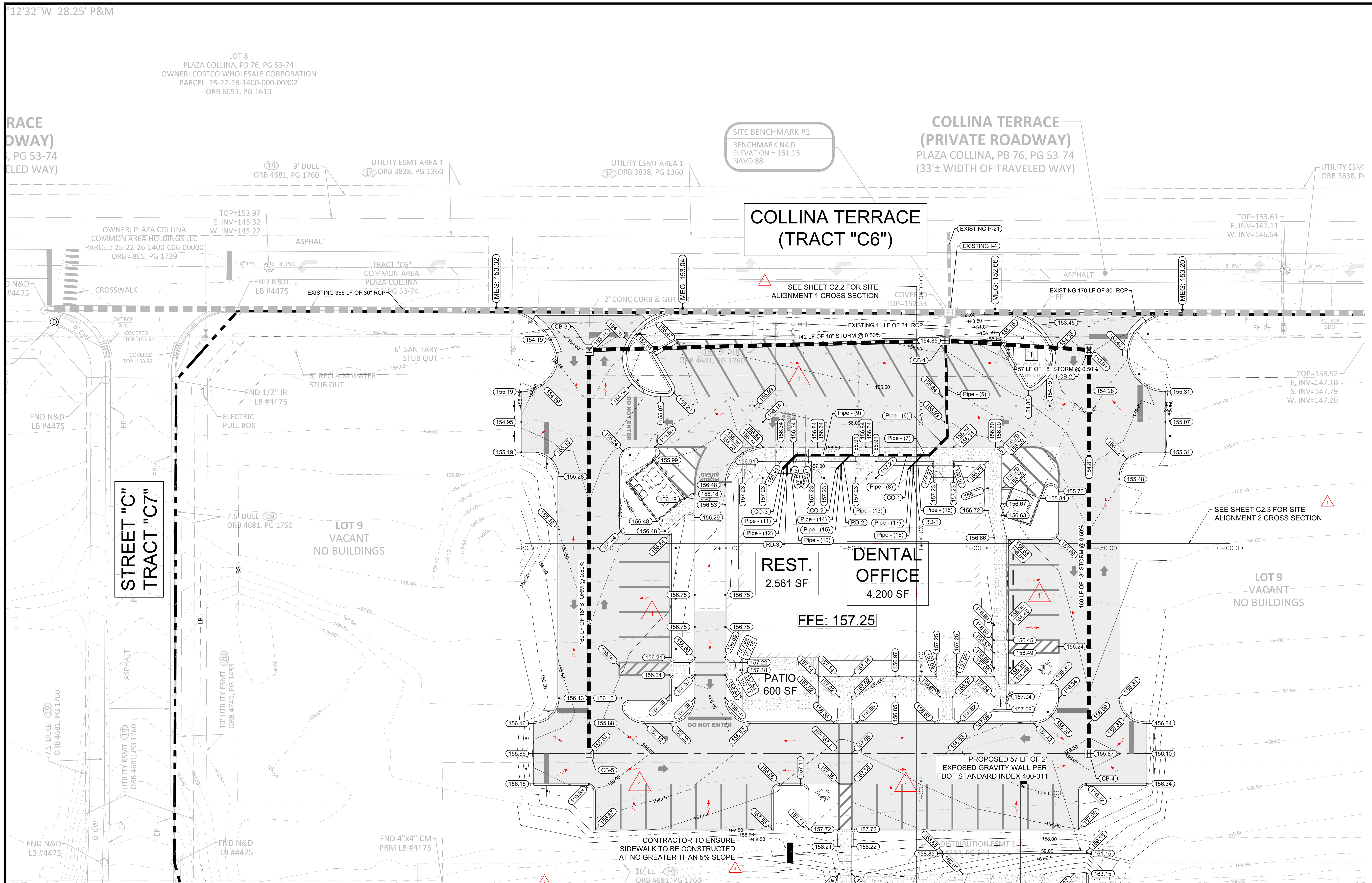

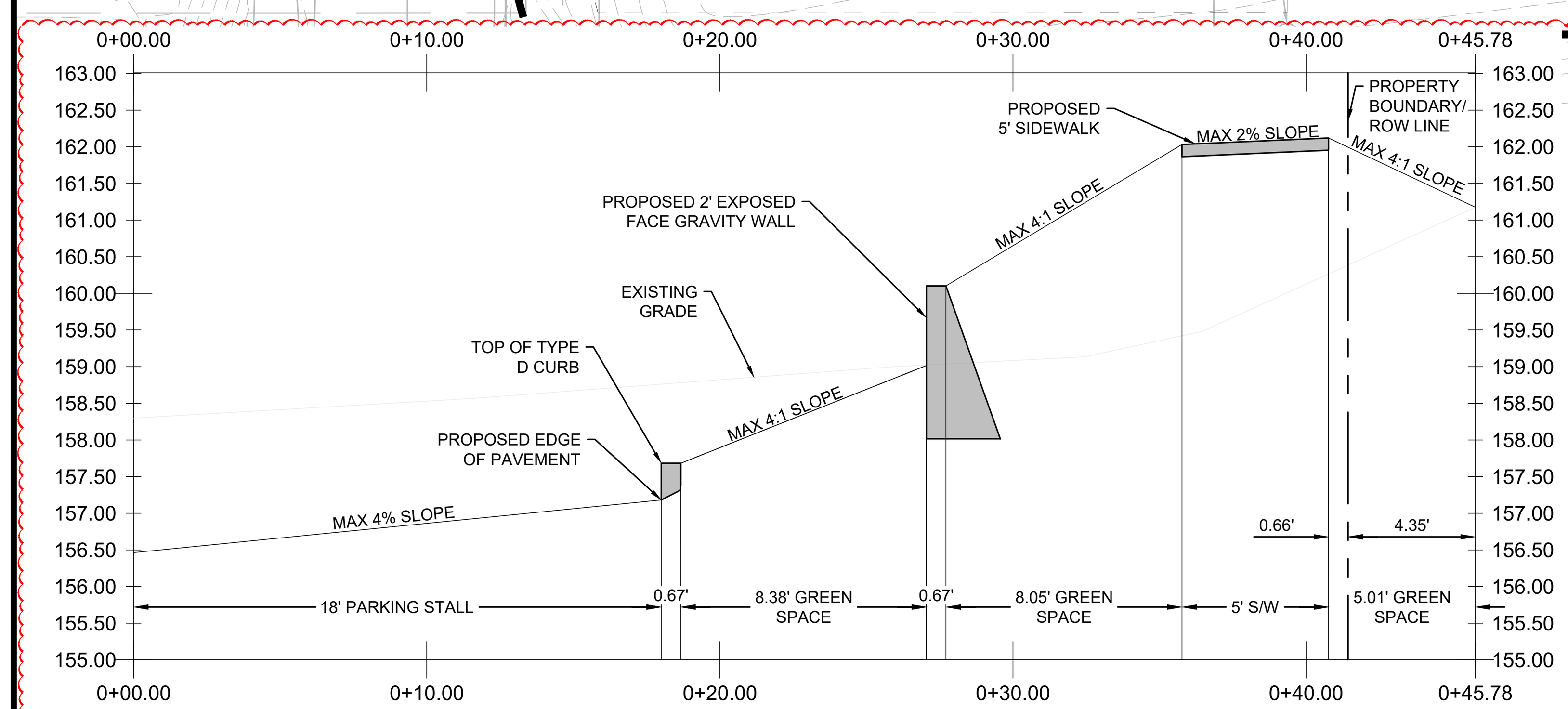

CROSS SECTION A

HORIZONTAL: 1" = 5'
VERTICAL: 1" = 0.5'

LEGEND / ABBREVIATIONS

SYMBOL	DESCRIPTION
▬ ▪ ▪ ▬	PROPERTY BOUNDARY
▨	EXISTING STORM DRAIN PIPE
▬	PROPOSED STORM DRAIN PIPE
##.## ●	PROPOSED SPOT GRADE ELEVATION
TOC EOP ●	PROPOSED EOP/TOC SPOT GRADE ELEVATION
— ## —	PROPOSED CONTOUR LINE
##.## ×	EXISTING SPOT GRADE ELEVATION
----## ----	EXISTING CONTOUR LINE
▦	PROPOSED STORM DRAIN INLET
Ⓓ	PROPOSED STORM DRAIN MANHOLE
MEG	MATCH EXISTING GRADE
G.B	GRADE BREAK

NOTE: STORM PIPES 4" TO 15" TO BE PVC. STORM PIPES LARGER THAN 15" TO BE RCP, HP STORM OR APPROVED EQUAL.

STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE DETAILS
CB-1	FDOT TYPE 9 CURB INLET RIM = 154.85 N: 10210.25 E: 7626.13 18" W INV = 148.50 18" E INV = 148.00 12" S INV = 149.00 24" N INV = 147.42
CB-2	FDOT TYPE C INLET RIM = 153.93 N: 10206.55 E: 7683.01 18" S INV = 148.28 18" W INV = 148.29
CB-3	FDOT TYPE C INLET RIM = 153.93 N: 10206.55 E: 7484.57 18" S INV = 149.21 18" E INV = 149.21
CB-4	FDOT TYPE C INLET RIM = 155.87 N: 10046.28 E: 7683.01 18" N INV = 149.09
CB-5	FDOT TYPE C INLET RIM = 155.64 N: 10046.28 E: 7484.57 18" N INV = 150.01

EXISTING STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE DETAILS
EXISTING I-4	EXISTING FDOT CURB INLET RIM = 152.53 N: 10221.49 E: 7627.82 EXISTING 24" S INV = 146.37 EXISTING 30" E INV = 147.65 EXISTING 30" W INV = 146.37 EXISTING 15" N INV = 146.45

PIPE TABLE

PIPE NAME	SIZE	LENGTH	SLOPE	MATERIAL
EXISTING P-5	30.00	169.90	0.21%	HDPE
EXISTING P-6	30.00	355.65	-0.22%	HDPE
EXISTING P-6A	24.00	11.36	9.24%	HDPE
EXISTING P-21	15.00	31.67	0.50%	RCP
Pipe - (1)	18.00	141.61	0.50%	STORM PIPE
Pipe - (2)	18.00	160.27	0.50%	STORM PIPE
Pipe - (3)	18.00	57.01	0.50%	STORM PIPE
Pipe - (4)	18.00	160.27	0.50%	STORM PIPE
Pipe - (5)	12.00	38.38	1.00%	STORM PIPE
Pipe - (6)	12.00	10.00	1.00%	STORM PIPE
Pipe - (7)	12.00	2.90	1.00%	STORM PIPE
Pipe - (8)	12.00	28.62	1.00%	STORM PIPE

PIPE TABLE

PIPE NAME	SIZE	LENGTH	SLOPE	MATERIAL
Pipe - (9)	12.00	21.46	1.00%	STORM PIPE
Pipe - (10)	12.00	5.00	1.00%	STORM PIPE
Pipe - (11)	12.00	3.00	1.00%	STORM PIPE
Pipe - (12)	6.00	4.42	1.00%	STORM PIPE
Pipe - (13)	6.00	5.00	1.00%	STORM PIPE
Pipe - (14)	6.00	3.00	1.00%	STORM PIPE
Pipe - (15)	6.00	4.42	1.00%	STORM PIPE
Pipe - (16)	6.00	5.00	1.00%	STORM PIPE
Pipe - (17)	6.00	3.00	1.00%	STORM PIPE
Pipe - (18)	6.00	4.42	1.00%	STORM PIPE

CLEANOUTS TABLE

STRUCTURE NAME	STRUCTURE DETAILS
CO-1	CLEAN OUT RIM = 157.08 N: 10159.13 E: 7611.13 6" NE INV = 149.59
CO-2	CLEAN OUT RIM = 157.06 N: 10159.13 E: 7582.52 6" NE INV = 149.88
CO-3	CLEAN OUT RIM = 156.80 N: 10159.13 E: 7561.05 12" NE INV = 150.10

ROOF DRAIN TABLE

STRUCTURE NAME	STRUCTURE DETAILS
RD-1	ROOF DRAIN CONNECTION RIM = 157.20 N: 10156.83 E: 7613.25 6" N INV = 149.61
RD-2	ROOF DRAIN CONNECTION RIM = 157.17 N: 10156.83 E: 7584.64 6" N INV = 149.89
RD-3	ROOF DRAIN CONNECTION RIM = 157.08 N: 10156.83 E: 7563.17 6" N INV = 150.11

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PAVING, GRADING AND DRAINAGE PLAN

WMG - CLERMONT SR 50
CLERMONT, FLORIDA

CAUTION
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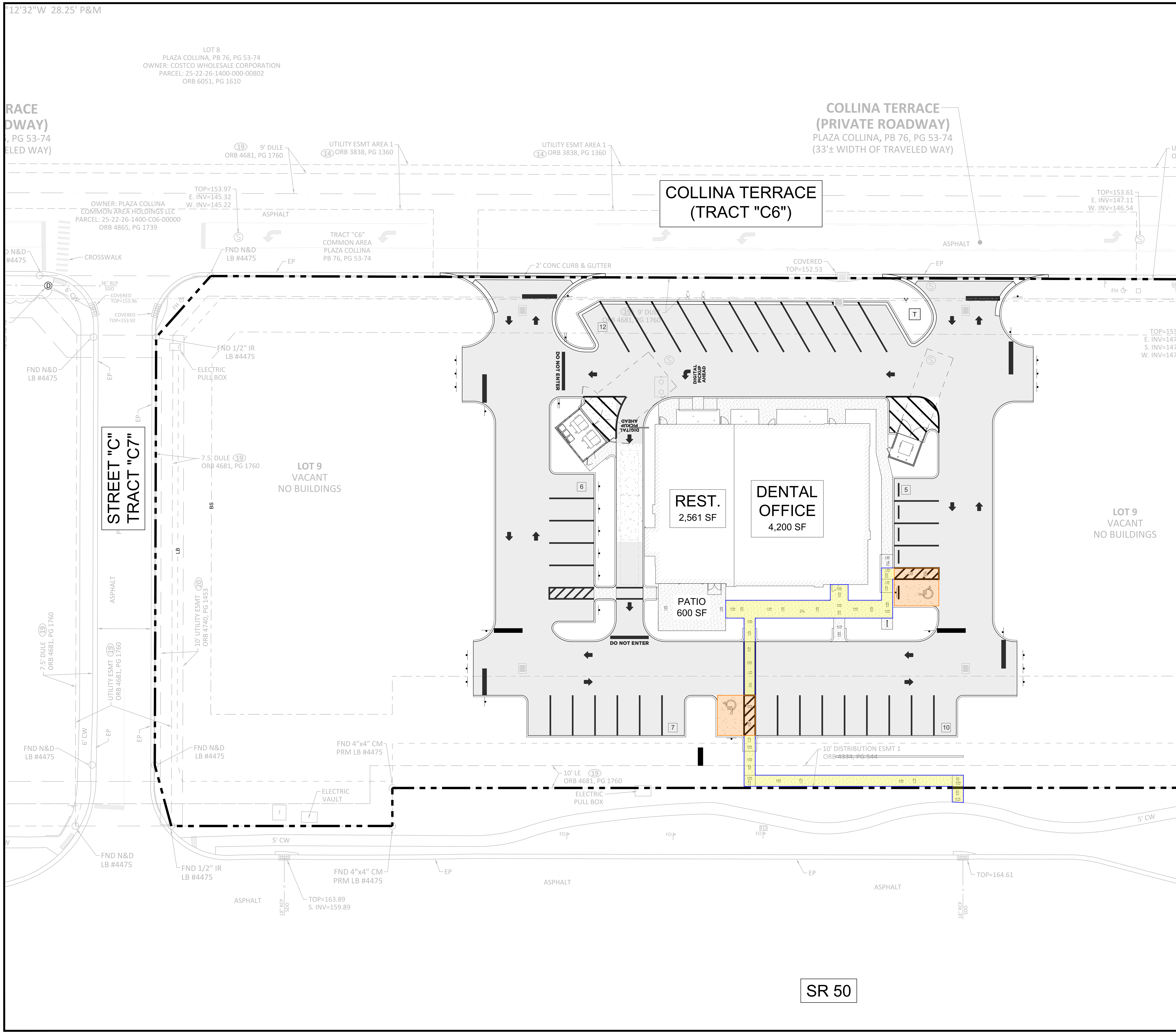
ALEX T. GOETZ LICENSE No. 86837 STATE OF FLORIDA PROFESSIONAL ENGINEER 01/19/2024
ALEX T. GOETZ, P.E.
FLORIDA P.E. #86837

JOB NO:	23-0065.000
DESIGN:	M.P.
DRAWN:	M.N.
APPROVED:	A.G.
SHEET NO:	C2.0
REV:	2

P:\23-0065.000 WMG - CLERMONT SR 50\DESIGN\PLANS\CONSTRUCTION\C2.0_DRAINAGE_PLAN_WMG50.DWG 1/19/2024



0 10' 20' 40'

GRAPHIC SCALE
SCALE: 1" = 20'

KEY LEGEND		
SYMBOL	DESCRIPTION	DETAILS KEY
▬ ▬ ▬	PROPERTY BOUNDARY	N/A
🟨	SITE ACCESSIBILITY PATH	N/A
🟧	HANDICAP STALL	N/A

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ADA PLAN

WMG - CLERMONT SR 50
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No. 86837
STATE OF
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FLORIDA
PROFESSIONAL ENGINEER

ALEX T. GOETZ, P.E.
FLORIDA P.E. #86837

JOB NO:	23-0065.000
DESIGN:	M.P.
DRAWN:	M.N.
APPROVED:	A.G.
SHEET NO:	C2.1
REV:	1

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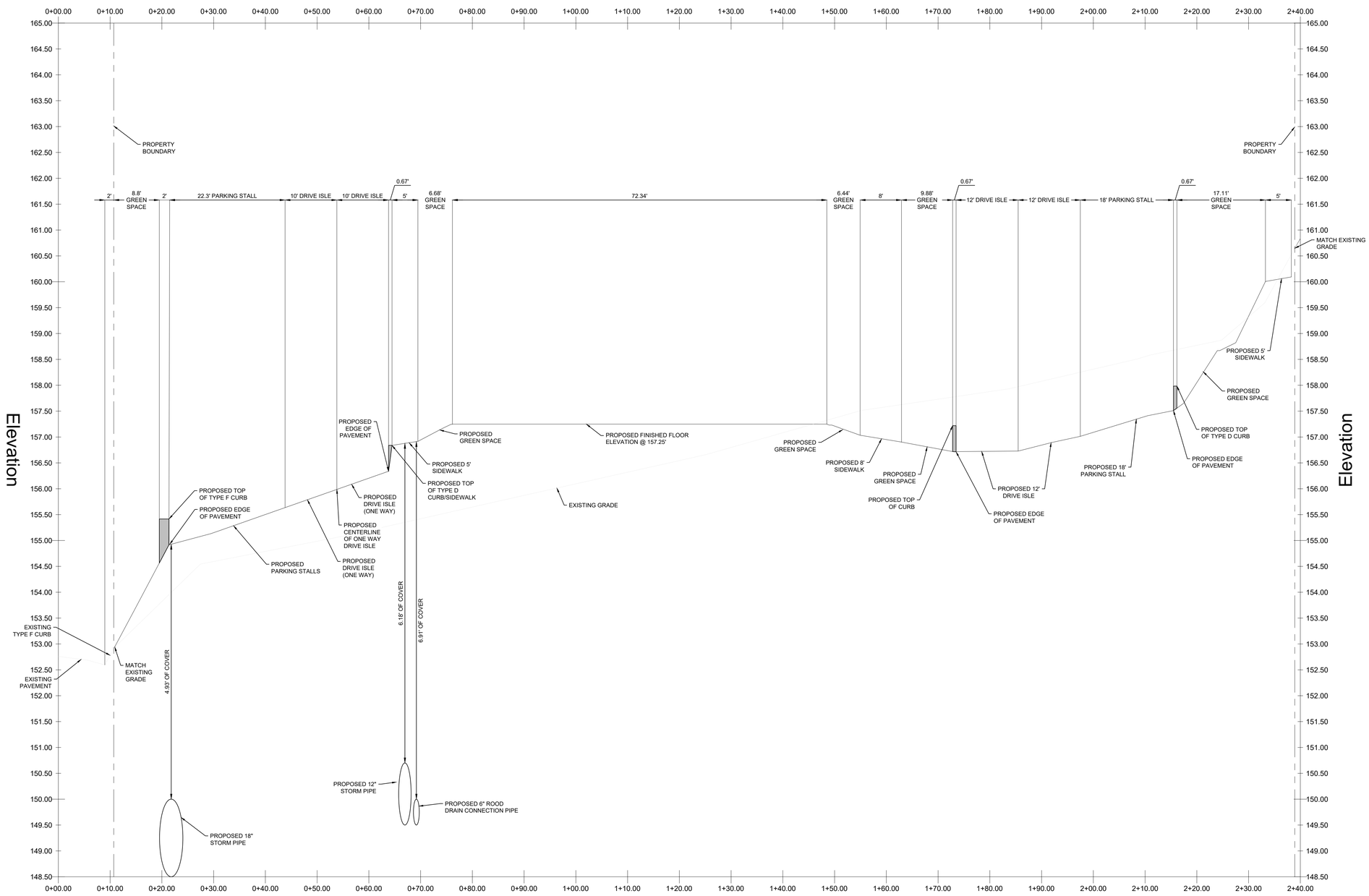

SITE ALIGNMENT 1 CROSS SECTION

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

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SITE ALIGNMENT 1 CROSS SECTION

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FLORIDA P.E. #86837

JOB NO:	23-0065.000
DESIGN:	M.P.
DRAWN:	M.N.
APPROVED:	A.G.
SHEET NO:	C2.2
REV:	2

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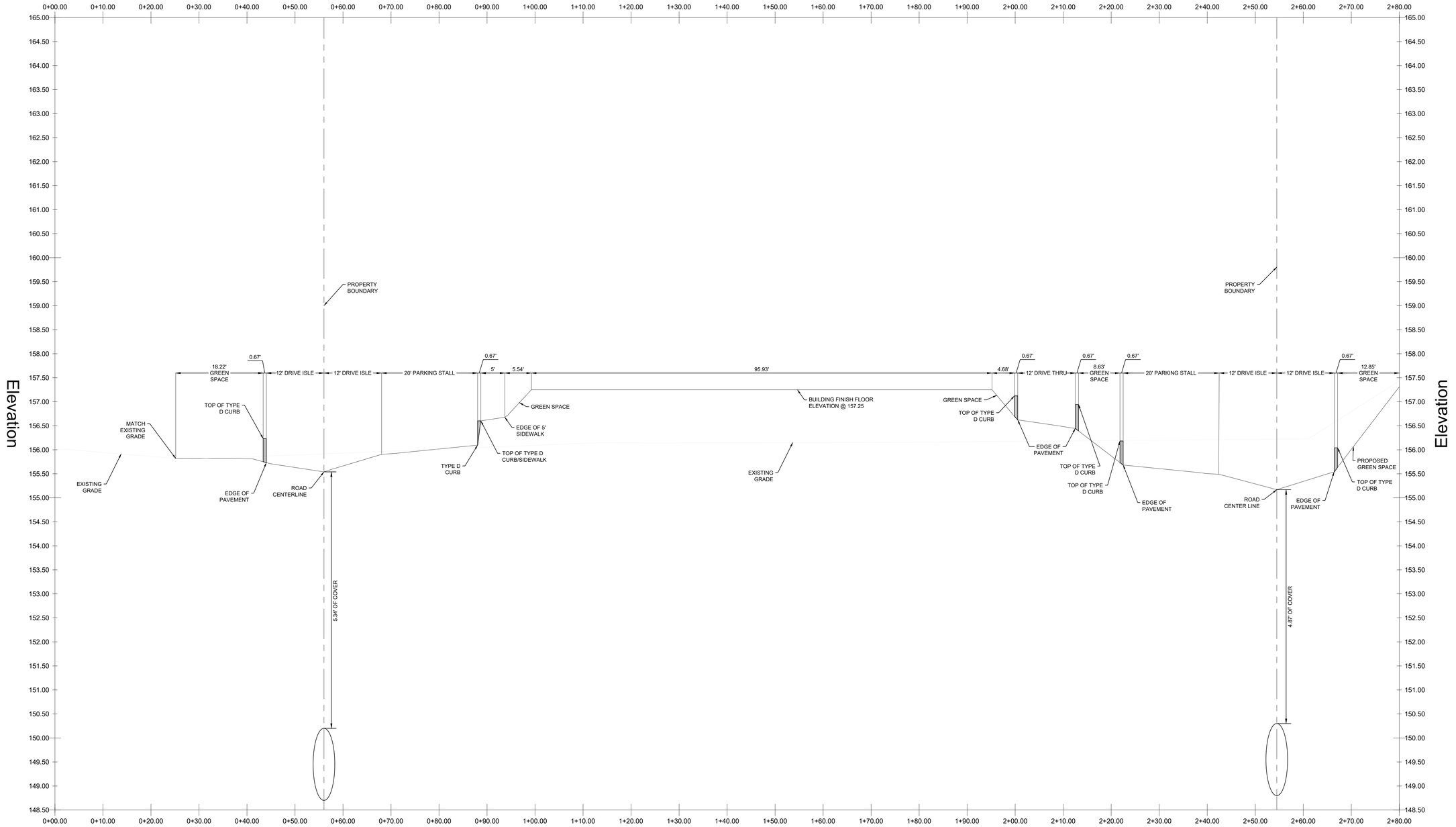

SITE ALIGNMENT 2 CROSS SECTION

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

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SITE ALIGNMENT 2 CROSS SECTION

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FLORIDA P.E. #86837

JOB NO:	23-0065.000
DESIGN:	M.P.
DRAWN:	M.N.
APPROVED:	A.G.
SHEET NO:	C2.3
REV:	1

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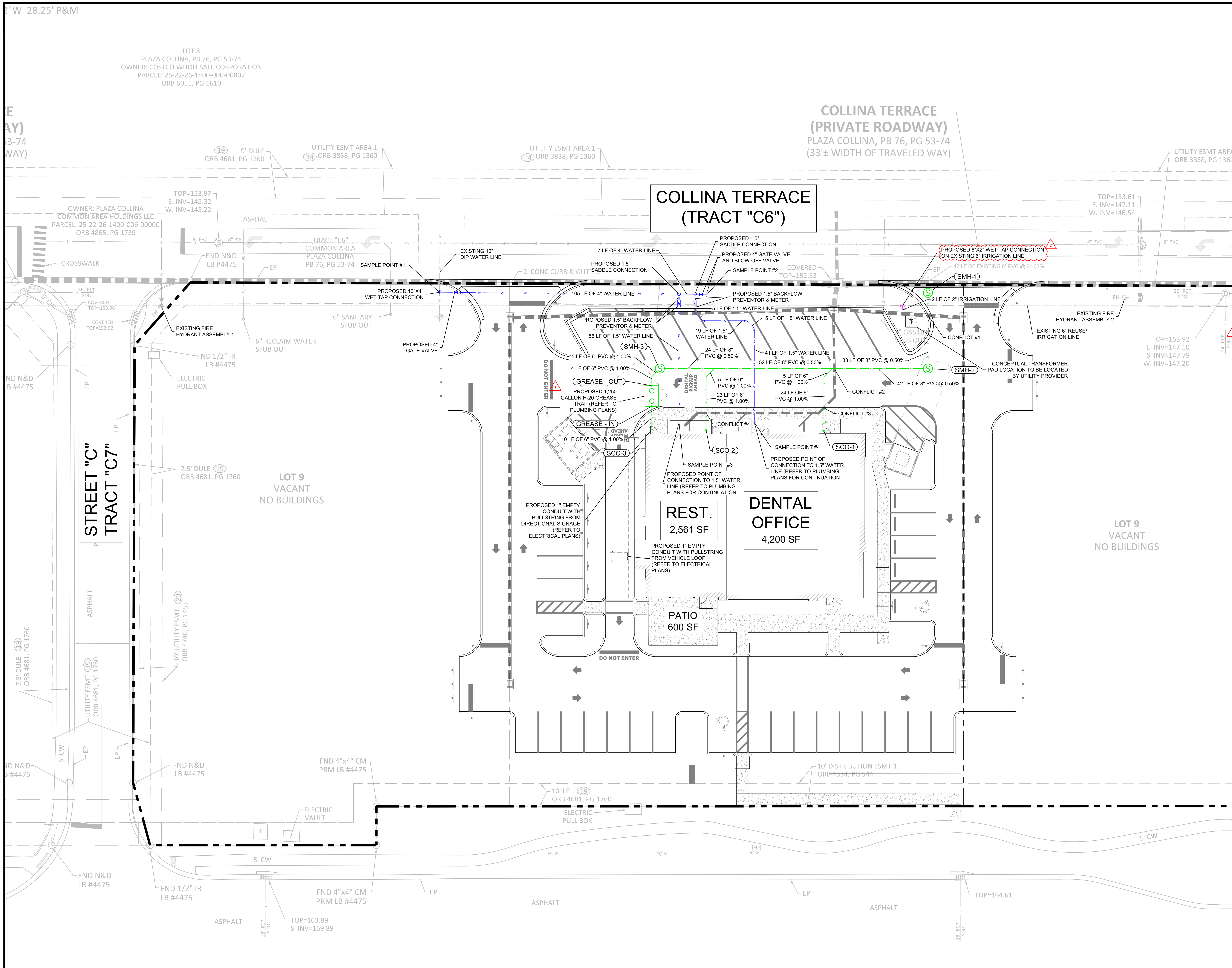

GRAPHIC SCALE
SCALE: 1" = 20'

KEY LEGEND

SYMBOL	DESCRIPTION	DETAILS KEY
▬ ▪ ▪ ▬	PROPERTY BOUNDARY	N/A
—w—w—	PROPOSED WATER LINE	N/A
- - - -	PROPOSED IRRIGATION LINE	N/A
—s—s—	PROPOSED SEWER LINE	N/A
------	PROPOSED 1" EMPTY CONDUIT WITH PULLSTRING	N/A
○	PROPOSED CLEAN OUT	SHEET C4.1
Ⓢ	PROPOSED SEWER MANHOLE	SHEET C4.1

NOTE:

1. CONTRACTOR TO FIELD VERIFY HORIZONTAL & VERTICAL ELEVATIONS OF ALL EXISTING UTILITIES.
2. CONTRACTOR TO MAINTAIN A MINIMUM OF 3' OF COVER FROM EXISTING GRADE AND A MINIMUM 1' OF VERTICAL SEPARATION FROM ALL EXISTING UTILITIES.
3. IF CONTRACTOR IS TO FIND ANY DISCREPANCIES, PLEASE CONTACT THE ENGINEER OF RECORD IMMEDIATELY.
4. 1,250 GALLON GREASE TRAP TO BE H-20 TO ENSURE IT WILL BE TRAFFIC BEARING.

SEWER STRUCTURE TABLE

STRUCTURE	STRUCTURE DETAILS
GREASE - IN	GREASE IN N: 10167.78 E: 7546.73 6" S INV = 152.46
GREASE - OUT	GREASE OUT N: 10176.78 E: 7546.73 6" N INV = 152.21
SMH-1	SANITARY MANHOLE RIM = 153.45 N: 10217.41 E: 7667.49 8" S INV = 151.17 8" N INV = 151.07 (EXISTING)
SMH-2	SANITARY MANHOLE RIM = 154.79 N: 10184.28 E: 7667.48 8" W INV = 151.44 8" N INV = 151.34
SMH-3	SANITARY MANHOLE RIM = 155.99 N: 10184.28 E: 7550.27 6" SW INV = 152.12 8" E INV = 152.02

SEWER CLEANOUT TABLE

CLEAN-OUT	CLEANOUT DETAILS
SCO-1	DENTAL OFFICE CLEAN OUT RIM = 157.18 N: 10157.02 E: 7621.98 6" N INV = 151.93
SCO-2	RESTAURANT NON-GREASE CLEAN-OUT RIM = 155.54 N: 10157.33 E: 7570.44 6" N INV = 152.19
SCO-3	RESTAURANT GREASE TRAP CLEAN-OUT RIM = 155.91 N: 10157.66 E: 7546.73 6" N INV = 152.56

PIPE CROSSINGS TABLE

PIPE CROSSING NO.	PIPE 1 TYPE	PIPE 1 SIZE (in)	PIPE 1 TOP (ft)	PIPE 1 BOT. (ft)	PIPE 2 TYPE	PIPE 2 SIZE (in)	PIPE 2 TOP (ft)	PIPE 2 BOT. (ft)	SEP. (ft)	GRADE ELEVATION	PIPE 1 COVER (FT)	PIPE 2 COVER (FT)
Conflict #1	STORM	18	149.71	148.21	SANITARY	8	151.89	151.22	1.51	154.41	4.70	2.52
Conflict #2	SANITARY	8	152.32	151.65	STORM LAT	12	150.26	149.26	1.39	155.74	3.42	5.48
Conflict #3	SANITARY LAT	6	152.40	151.90	STORM LAT	12	150.45	149.45	1.45	156.84	4.44	6.39
Conflict #4	SANITARY LAT	6	152.62	152.12	STORM LAT	12	150.98	149.98	1.14	156.88	4.26	5.90

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UTILITY PLAN

WMG - CLERMONT SR 50
CLERMONT, FLORIDA

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STATE OF
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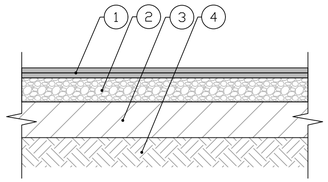
PROFESSIONAL ENGINEER

ALEX T. GOETZ, P.E.
FLORIDA P.E. #86837

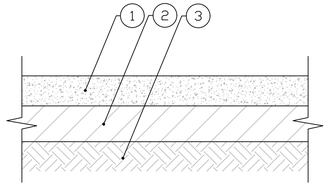
JOB NO:	23-0065.000
DESIGN:	M.P.
DRAWN:	M.N.
APPROVED:	A.G.
SHEET NO:	C3.0
REV:	2

P:\23-0065.000 WMG - CLERMONT SR 50\DESIGN\PLANS\CONSTRUCTION\C3.0_UTILITY_PLAN_WMG50.DWG 1/19/2024



1. 2.5" TYPE SP12.5 (TWO 1.25" LIFTS) ASPHALT PAVEMENT TO BE COMPACTED TO A MINIMUM OF 95% OF THE DESIGN MIX DENSITY. SEE PLANS FOR SLOPE.
2. 8" CRUSHED CONCRETE BASE PER FDOT SPECIFICATION SECTION 911 - SHALL HAVE A MINIMUM LBR VALUE OF 150 AND BE COMPACTED TO A MINIMUM OF 98% OF THE MAXIMUM DRY DENSITY OF THE MODIFIED PROCTOR TEST. PRIMER SHALL BE APPLIED AFTER THE COMPACTION AND LBR CRITERIA HAS BEEN MET.
3. 12" STABILIZED SUBGRADE SHALL BE STABILIZED TO A MINIMUM LBR VALUE OF 40 AND SHALL BE COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY. SUBGRADE SOILS TO CONSIST OF CLEAN, FREE DRAINING SANDS WITH A FINES CONTENT PASSING A NO. 200 SIEVE OF 7% OR LESS.
4. EXISTING GRADE SOILS.

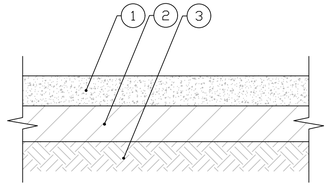
HEAVY DUTY ASPHALT PAVEMENT DETAIL
NTS



1. 6" THICK FIBERMESH CONCRETE TO BE A MINIMUM OF 4,000 PSI AT 28 DAYS FOR VEHICULAR AREAS.
2. 12" STABILIZED SUBGRADE COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (AASHTO T-180 OR ASTM D-1557). SUBGRADE SOILS TO CONSIST OF CLEAN, FREE DRAINING SANDS WITH A FINES CONTENT PASSING A NO. 200 SIEVE OF 5% OR LESS.
3. EXISTING GRADE SOILS.

NOTE:
1. ALL CONCRETE JOINT SECTIONS SHOULD BE SQUARE OR NEARLY SO. UNDER NO CIRCUMSTANCES SHOULD THE LENGTH EXCEED 1.5 TIMES THE WIDTH.
2. REFER TO CONTROL & EXPANSION JOINT DETAILS FOR ADDITIONAL REQUIREMENTS.

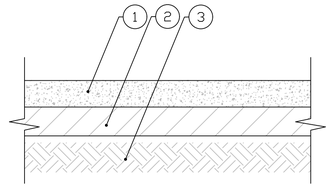
VEHICULAR USE CONCRETE PAVEMENT DETAIL
NTS



1. 6" THICK REINFORCED (WITH WIRE MESH) CONCRETE.
2. 12" STABILIZED SUBGRADE COMPACTED TO AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (AASHTO T-180 OR ASTM D-1557). SUBGRADE SOILS TO CONSIST OF CLEAN, FREE DRAINING SANDS WITH A FINES CONTENT PASSING A NO. 200 SIEVE OF 5% OR LESS.
3. EXISTING GRADE SOILS.

NOTE:
1. ALL CONCRETE JOINT SECTIONS SHOULD BE SQUARE OR NEARLY SO. UNDER NO CIRCUMSTANCES SHOULD THE LENGTH EXCEED 1.5 TIMES THE WIDTH.
2. REFER TO CONTROL & EXPANSION JOINT DETAILS FOR ADDITIONAL REQUIREMENTS.

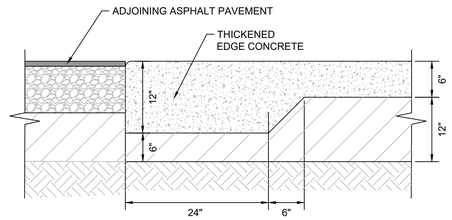
REINFORCED VEHICULAR USE CONCRETE PAVEMENT DETAIL
NTS



1. 4" THICK FIBERMESH CONCRETE AND SHALL BE DESIGNED TO A MINIMUM OF 2,500 PSI AT 28 DAYS.
2. 6" THICK STABILIZED SUBGRADE COMPACTED TO AT LAST 95% MAXIMUM DRY DENSITY (AASHTO T-180 OR ASTM D-1557). SUBGRADE SOILS TO CONSIST OF CLEAN, FREE DRAINING SANDS'
3. EXISTING GRADE SOILS.

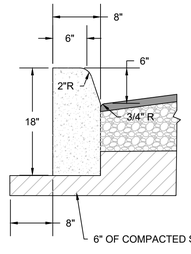
NOTES:
1. WHEN APPLICABLE AT RUNNING SIDEWALKS, INSTALL CONTROL JOINTS EVERY 5' AND EXPANSION JOINTS EVERY 15'.
2. ALL CONCRETE JOINT SECTIONS SHOULD BE SQUARE OR NEARLY SO. UNDER NO CIRCUMSTANCES SHOULD THE LENGHT EXCEED 1.5 TIMES THE WIDTH.
3. REFER TO CONTROL & EXPANSION JOINT DETAILS FOR ADDITIONAL REQUIREMENTS.

NON-VEHICULAR USE CONCRETE PAVEMENT DETAIL
NTS



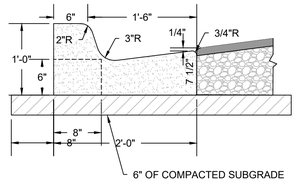
NOTE:
1. FLUSH THICKENDED EDGE SHALL BE UTILIZED AT ALL LOCATIONS WHERE CONCRETE ABUTS FLUSH ASPHALT PAVEMENT.
2. SEE ASPHALT AND CONCRETE PAVEMENT DETAILS FOR MATERIAL SPECIFICATIONS.

THICKENED EDGE CONCRETE DETAIL
NTS



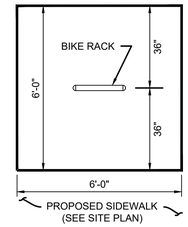
NOTE: WHERE CURB ABUTS CONCRETE PAVEMENT, INSTALL 1/2" EXPANSION JOINT WITH PREFORMED FILLER, WITH JOINT SEAL AT THE SURFACE.

TYPE D CURB (FDOT STANDARD PLANS INDEX 520-001)
NTS

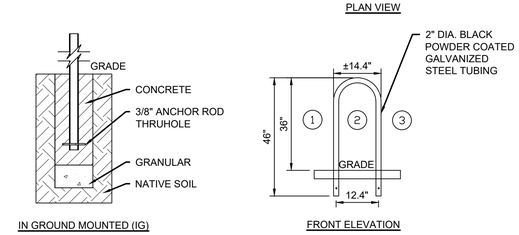


NOTE: WHERE CURB ABUTS CONCRETE PAVEMENT, INSTALL 1/2" EXPANSION JOINT WITH PREFORMED FILLER, WITH JOINT SEAL AT THE SURFACE.

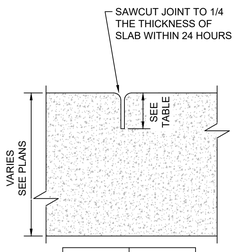
TYPE F CURB DETAIL
NTS



PLAN VIEW

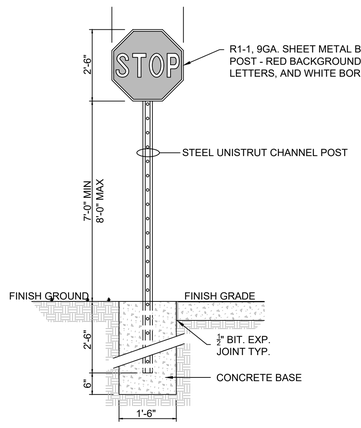


BICYCLE RACK DETAIL
NTS

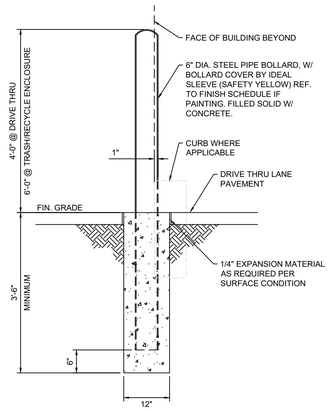


SAWCUT DEPTH	SLAB THICKNESS
1"	4"
1 1/2"	6"
2"	8"
2 1/2"	10"

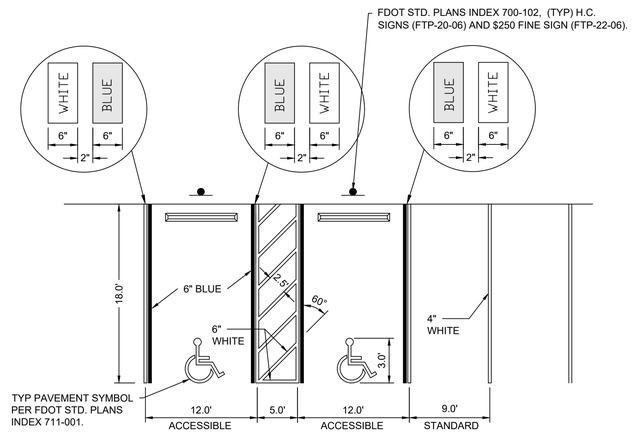
CONTROL JOINT DETAIL
NTS



STOP SIGN DETAIL
NTS

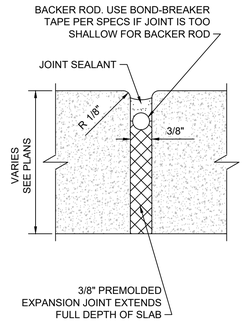


10 PARKING STALL STRIPING
NTS



NOTE: ALL ACCESSIBLE STALL STRIPING SHALL BE PER FDOT STD PLANS INDEX 711-001.

PARKING STALL STRIPING
NTS



EXPANSION JOINT DETAIL
NTS

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SITE DETAILS

WMG - CLERMONT SR 50
CLERMONT, FLORIDA

CAUTION
0 1/2 1
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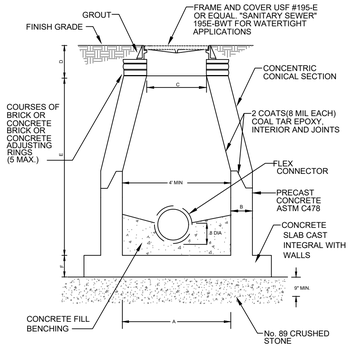
SHEET NO:	C4.0
REV:	1

P:\23-0065.000 WMG - CLERMONT SR 50\DESIGN\PLANS\CONSTRUCTION\C4.0_DETAILS_WMG50.DWG 1/19/2024



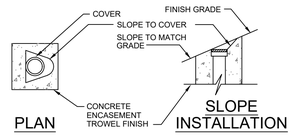
NOTES:
1. PRECAST CONCRETE SHALL BE TYPE 2 CEMENT 4000 PSI
2. LIFT HOLES NOT PERMITTED THROUGH PRECAST SECTIONS.
3. ALL OPENINGS SHALL BE SEALED WITH NON-SHRINK GROUT.
4. INSTALL FLOW CHANNEL INSIDE MANHOLES.
5. SERVICE LATERALS SHALL GENERALLY NOT BE PERMITTED DIRECTLY INTO MANHOLES.
6. PLACE TWO HALF-MOON SHAPED PLYWOOD (3/8"THICK MIN.) IN BOTTOM OF MANHOLE AFTER PIPES HAVE BEEN CONNECTED TO KEEP DEBRIS FROM ENTERING SEWER.
7. REINFORCING STEEL PER ASTM C478-88a.
8. PROVIDE 5' x 5' x 12" CONCRETE COLLAR AROUND COVER FRAME, W/4 #4 BARS E.W., IN UNPAVED AREAS.
9. MANHOLES RECEIVING DIRECT FORCE MAIN FLOW SHALL BE CONSTRUCTED WITH A HIGH DENSITY POLYETHYLENE LINER CAST IN DURING CONSTRUCTION THIS LINER SHALL BE AGRU SURE GRIP, OR EQUAL APPROVED BY THE CITY OF CLERMONT.

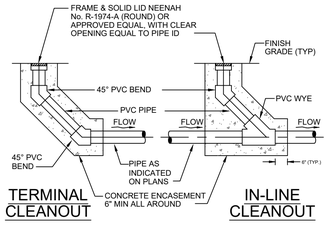
M.H. DEPTH	A*	B	C	D	E	F
UP TO 12'	48"	5"	24"	15"	AS-REQ'D	8"
12' - 18'	60"	8"	24"	15"	AS-REQ'D	10"
18' & DEEPER	72"	8"	24"	15"	AS-REQ'D	14"

MANHOLE SIZE:
UP TO 24" PIPE = 48"Ø, UP TO 36" PIPE = 60"Ø,
OVER 36" PIPE = 72"Ø

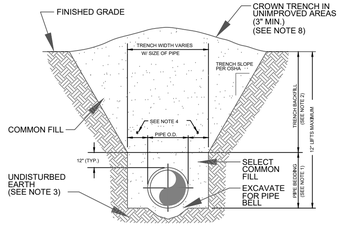
*ENTIRE DEPTH EXCEPT CONE

STANDARD MANHOLE DETAIL
NOT TO SCALE



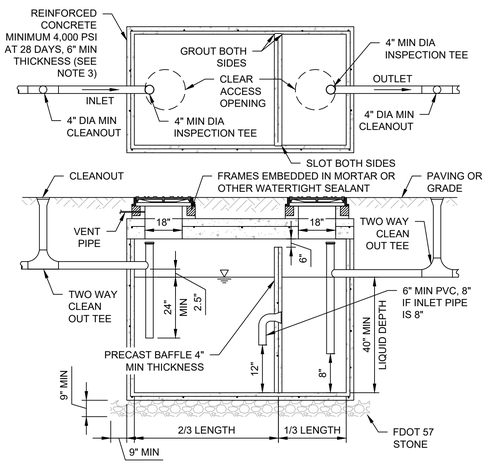


CLEANOUT DETAIL IN PAVED AREAS

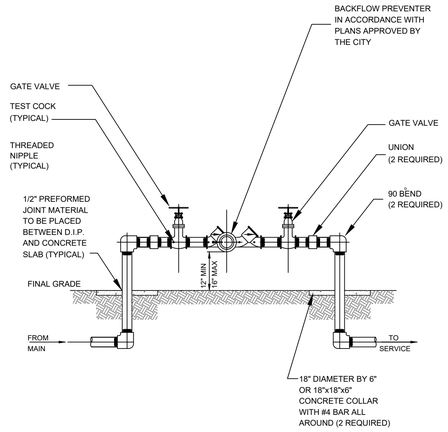


NOTES:
1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
4. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. SHEETING AND BRACING SHALL BE USED IN ACCORDANCE WITH CURRENT TRENCHING REGULATIONS AND WHERE UNSAFE CONDITIONS EXIST.
8. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN CITY OF CLERMONT RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

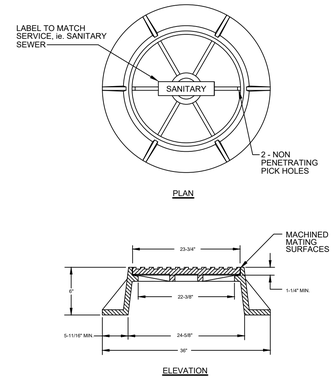
TYPE B BEDDING AND TRENCHING DETAIL
NOT TO SCALE



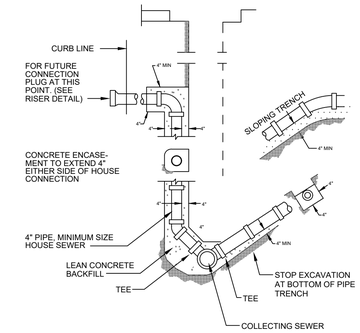
GREASE INTERCEPTOR
NOT TO SCALE



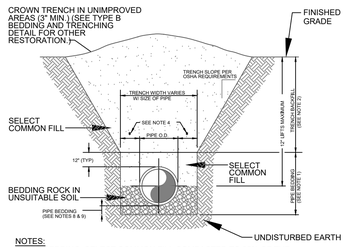
REDUCED PRESSURE BACKFLOW PREVENTER
NOT TO SCALE



STANDARD MANHOLE FRAME AND COVER
NOT TO SCALE

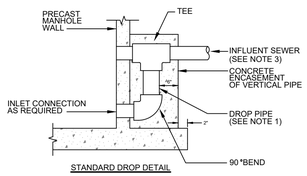


SERVICE CONNECTION FOR DEEP SEWER
NOT TO SCALE



NOTES:
1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
3. USE TYPE A BEDDING TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE CITY OF CLERMONT.
4. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. SHEETING AND BRACING SHALL BE USED IN ACCORDANCE WITH CURRENT TRENCHING REGULATIONS AND WHERE UNSAFE CONDITIONS EXIST.
8. GRAVITY SEWERS SHALL UTILIZE TYPE A BEDDING, IF REQUIRED BY THE ENGINEER. BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER LESS THAN 15", AND 6" MINIMUM FOR PIPE DIAMETER 16" AND LARGER.
9. DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. CITY OF CLERMONT SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.

TYPE A BEDDING AND TRENCHING DETAIL
NOT TO SCALE



NOTES:
1. DROP PIPE AND FITTINGS SHALL BE OF EQUAL SIZE AND MATERIAL AS THE INFLUENT SEWER.
2. THE CITY MAY APPROVE ALTERNATE WATER TIGHT CONNECTION DETAILS FOR CONNECTION OF 24" DIAMETER PIPES AND LARGER.
3. AN OUTSIDE DROP CONNECTION SHALL BE REQUIRED FOR ALL INFLUENT PIPES WHICH HAVE AN INVERT 2' OR MORE ABOVE THE MANHOLE INVERT.

MANHOLE CONNECTION DETAILS
NOT TO SCALE

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PHONE (407)410-8624 COA 32059

REV NO	DATE	DESCRIPTION
2	01/09/2024	CITY OF CLERMONT COMMENTS
1	10/09/2023	CITY OF CLERMONT COMMENTS

STATUS: CONSTRUCTION PLANS

REV NO	DATE	DESCRIPTION
2	01/19/2024	REVISIONS PER CITY OF CLERMONT COMMENTS
1	12/05/2023	REVISIONS PER CITY OF CLERMONT COMMENTS

UTILITY DETAILS

WMG - CLERMONT SR 50
CLERMONT, FLORIDA

CAUTION
0 1/2 1
IF THIS SCALE BAR DOES NOT MEASURE 1" THE DOCUMENT IS NOT TO SCALE

ALEX T. GOETZ LICENSE No. 86837 STATE OF FLORIDA PROFESSIONAL ENGINEER 01/19/2024
ALEX T. GOETZ, P.E.
FLORIDA P.E. #86837

JOB NO: 23-0065.000
DESIGN: M.P.
DRAWN: M.N.
APPROVED: A.G.
SHEET NO: C4.1
REV: 2

P:\23-0065.000 WMG - CLERMONT SR 50\DESIGN\PLANS\CONSTRUCTION\C4.0_DETAILS_WMG50.DWG 1/19/2024

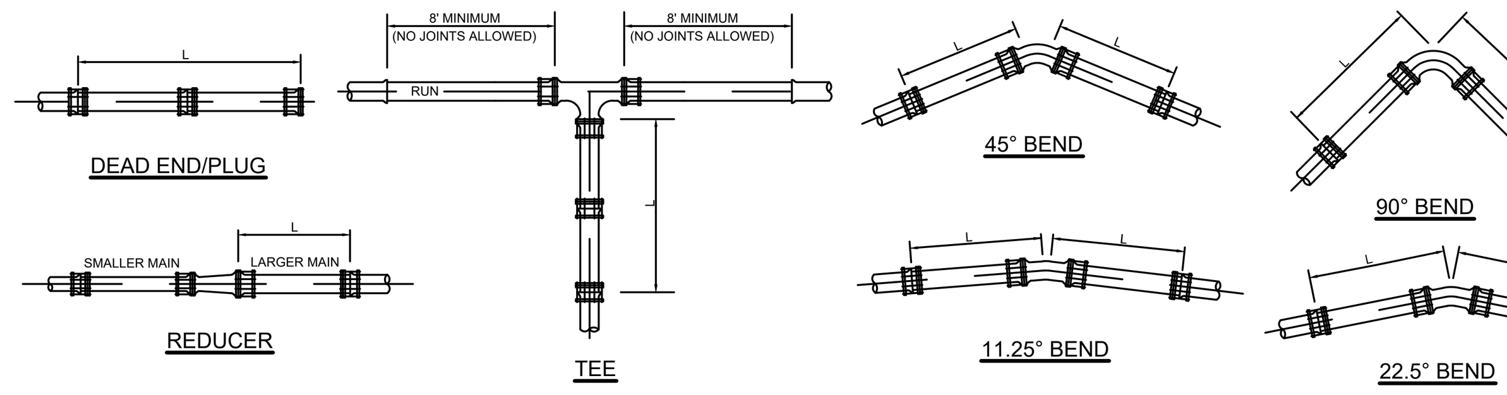


TABLE OF THRUST RESTRAINT LENGTHS

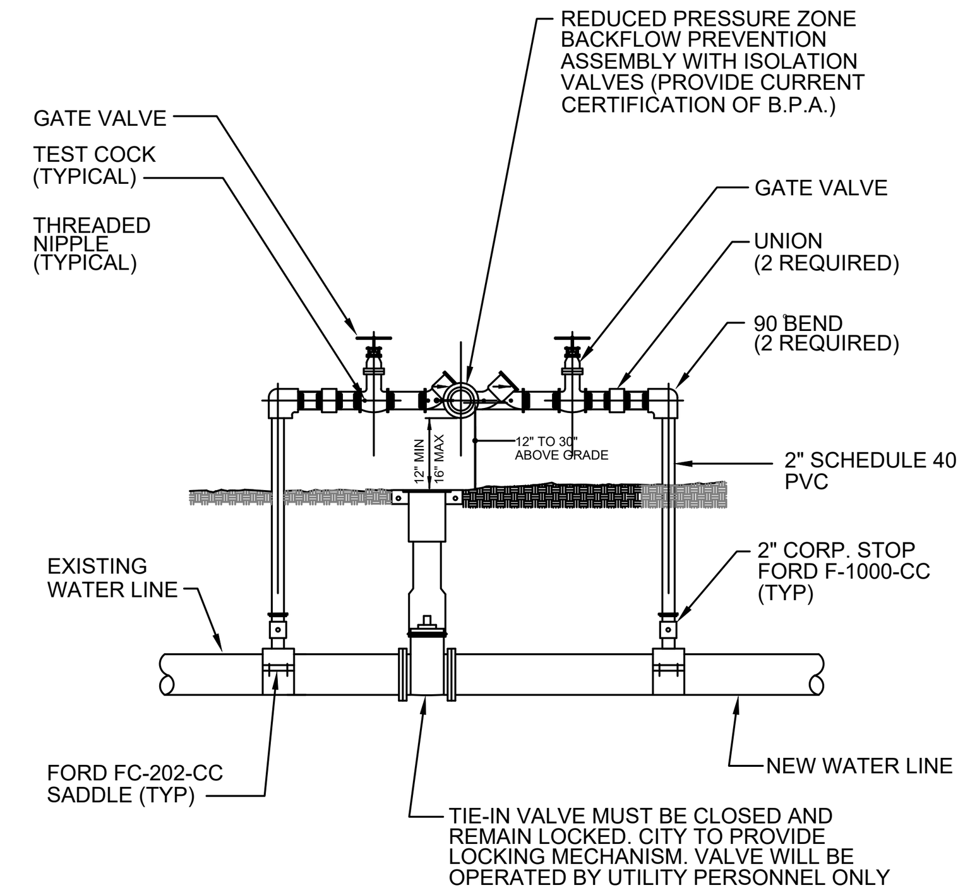
PIPE SIZE (INCHES)	90° BEND		45° BEND		22.5" BEND		11.25" BEND			TEES		DEAD END & PLUG		REDUCER		
	P.V.C. (L)	DUCTILE IRON (L)	P.V.C. (L)	DUCTILE IRON (L)	P.V.C. (L)	DUCTILE IRON (L)	P.V.C. (L)	P.V.C. (L)		DUCTILE IRON (L)	DUCTILE IRON (L)	P.V.C. (L)	DUCTILE IRON (L)	PIPE SIZES	P.V.C. (L)	DUCTILE IRON (L)
4	20'	16'	8'	7'	4'	3'	2'	2'		15'	10'	45'	28'	6"x4"	32'	21'
6	28'	22'	12'	9'	6'	4'	3'	2'		33'	21'	63'	40'	8"x6"	34'	22'
8	36'	29'	15'	12'	7'	6'	4'	3'		52'	33'	82'	52'	10"x8"	33'	21'
10	43'	34'	18'	14'	9'	7'	4'	3'		68'	43'	98'	62'	12"x10"	34'	21'
12	50'	40'	21'	17'	10'	8'	5'	4'		85'	53'	116'	73'	14"x12"	63'	40'
14	57'	46'	24'	20'	12'	9'	6'	5'		102'	63'	132'	84'	16"x14"	63'	40'
16	63'	51'	26'	21'	13'	10'	6'	5'		116'	73'	148'	93'			

THRUST RESTRAINT DESIGN NOTES

1. RESTRAINT JOINTS, FITTINGS AND VALVE REQUIREMENTS CALCULATED BY THE THRUST RESTRAINT DESIGN PROGRAM PROVIDED BY EBAA IRON SALES, INC.
2. DATA BASED ON MAXIMUM WATER PRESSURE OF 150 PSI, THE UNIFIED SOILS CLASSIFICATION SYSTEM (SOIL TYPE SP), THE PIPE BEDDED IN NATIVE SOIL WITH A MINIMUM 2.5' COMPACTED FILL OVER THE PIPE, AND USING A SAFETY FACTOR OF 1.5 FOR THE DATA.
3. ALL FITTINGS AND VALVES TO BE RESTRAINED WITH "MEGA-LUG" RESTRAINTS, AND ALL BELL AND SPIGOT JOINTS TO BE RESTRAINED WITH A RESTRAINING HARNESS WITHIN THE REQUIRED LENGTH OF RESTRAINED PIPE (L).

THRUST RESTRAINT DETAILS

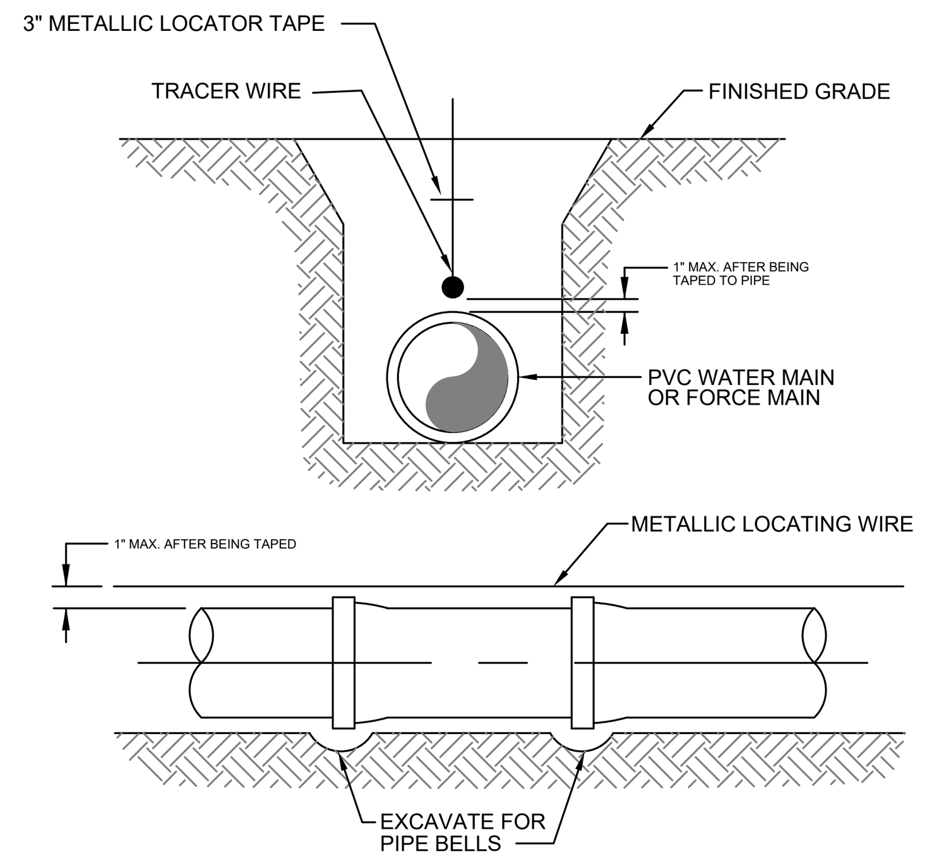
NOT TO SCALE



NOTE: LOCATION TO BE DETERMINED AT TIME OF PRECONSTRUCTION CONFERENCE WITH THE CITY.

TEMPORARY JUMPER CONNECTION DETAIL

NOT TO SCALE

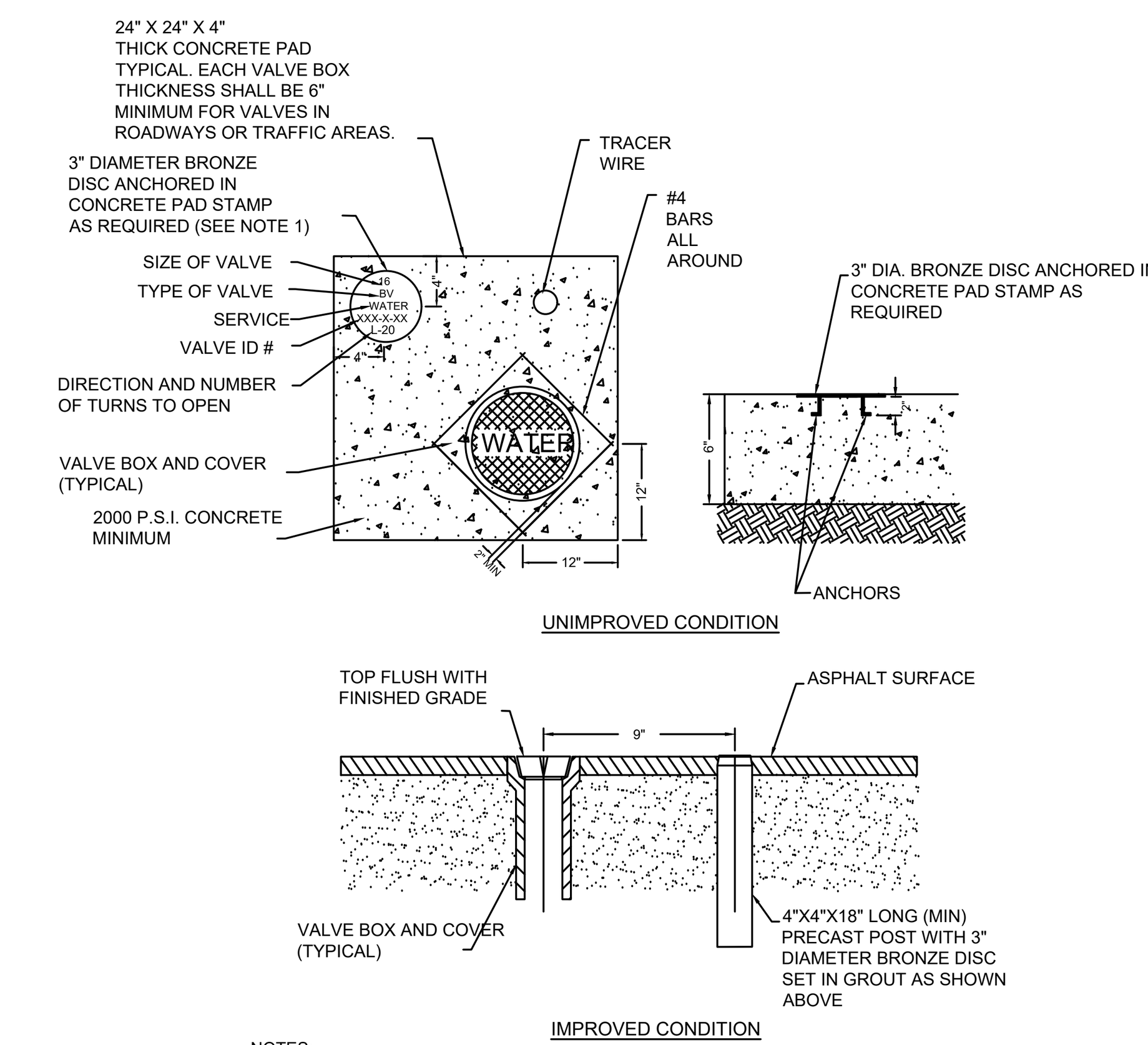


NOTES:

1. PVC PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (14 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR.
2. AND SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF THE PIPE. LOCATING WIRE SHALL TERMINATE AT THE TOP OF EACH VALVE BOX.
3. AND BE CAPABLE OF EXTENDING 12" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION. USE DUCT TAPE AS NECESSARY TO HOLD WIRE DIRECTLY ON THE TOP OF THE PIPE.

PVC PIPE LOCATING WIRE DETAIL

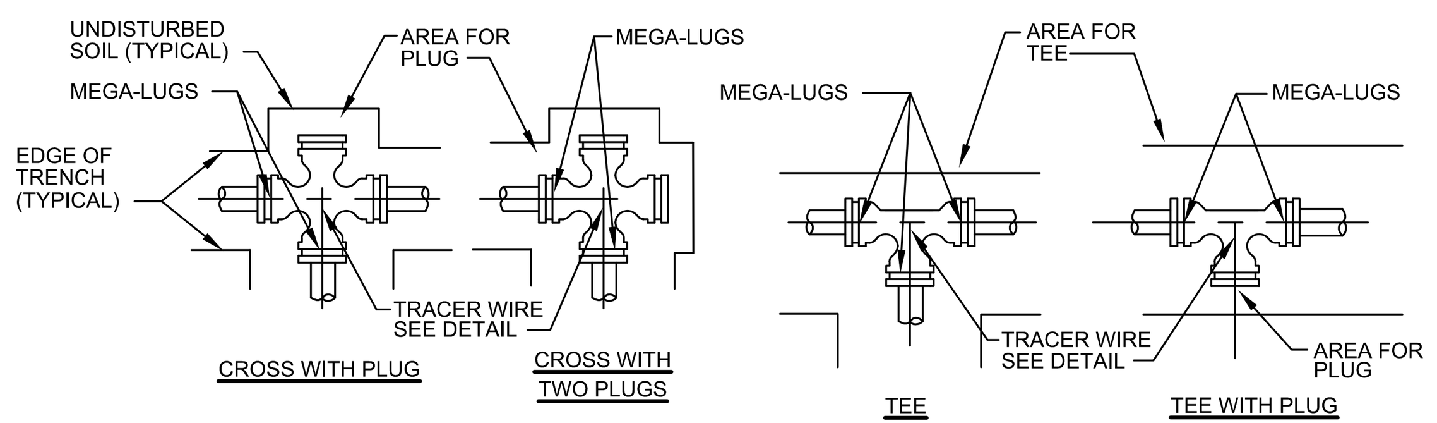
NOT TO SCALE



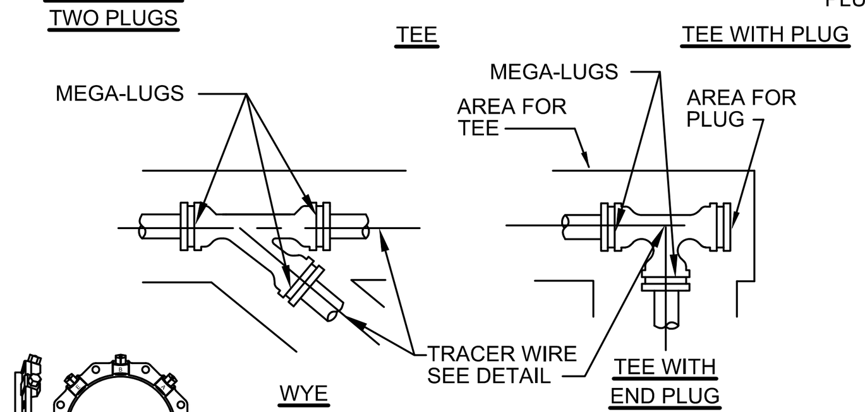
NOTES:
1. BRONZE IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES
2. REUSE VALVES TO HAVE SQUARE VALVE BOX TOP

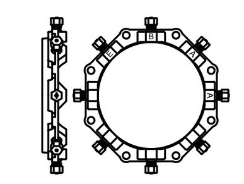
VALVE COLLAR

NOT TO SCALE

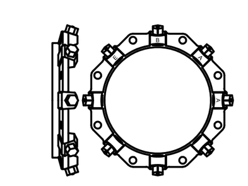


NOTES:
USE "MEGA-LUG" FITTINGS AS APPROVED BY THE PROJECT ENGINEER. "MEGA-LUG" CALCULATIONS TO BE PROVIDED BY THE CONTRACTOR AND APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.

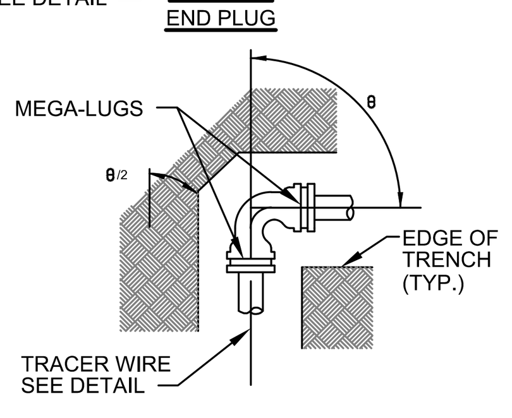




EBAA IRON
MEGA-LUG Series 2000
PRESSURE RATINGS FOR ORDINARY WATER WORKS:
DR14 200 PSI SDR17 250 PSI
DR18 150 PSI SDR21 200 PSI
DR25 100 PSI SDR26 160 PSI
ⓊL ◁FM▷RATED 150 PSI ON DR18
EXCEEDS UNI-B-13 OF 92
FOR USE ON PVC PIPE
MADE IN THE USA

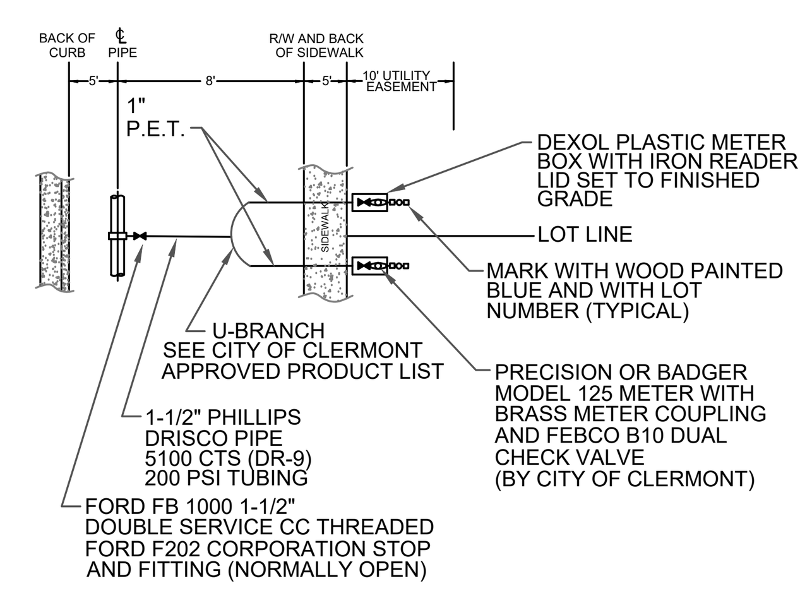


EBAA IRON
MEGA-LUG Series 1100
350 PSI RATING
ⓊL
◁FM▷ RATED 175 PSI
FOR USE ON DUCTILE IRON PIPE
MADE IN THE USA



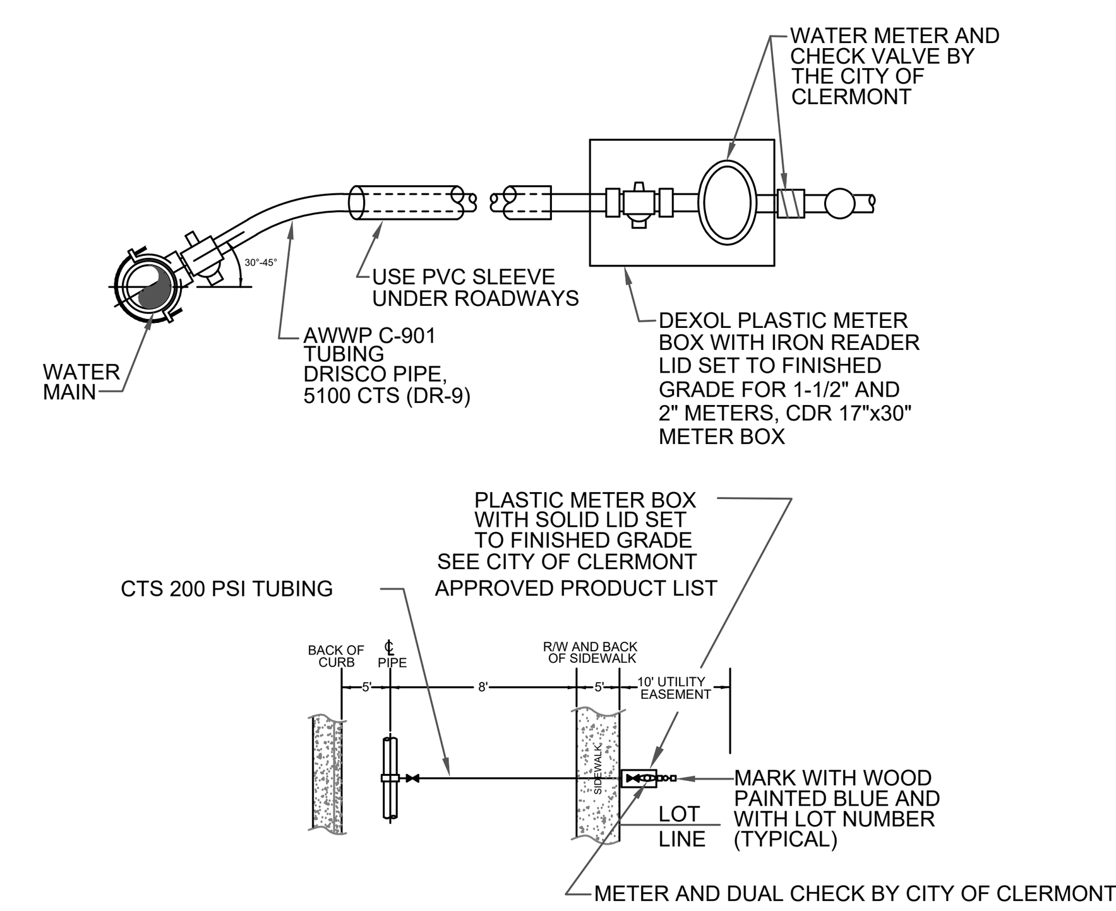
MEGALUG DETAILS

NOT TO SCALE



DOUBLE SERVICE

NOTES:
1. ALL WATER SERVICES AND METER BOXES SHALL BE LOCATED INSIDE THE 10' UTILITIY EASEMENT. SERVICE LINES SHALL BE CONTINUOUS FROM CORPORATION STOP TO CURB STOP.
2. ALL CLERMONT SERVICE LINES SHALL BE 1" (1-1/2" DBL. SERV.) CTS (DR-9), 200 PSI TUBING.
3. EACH SERVICE SHALL TERMINATE AT A CURB STOP WHICH SHALL BE CLEARLY MARKED WITH A 2" X 2" X 18" STAKE
4. SEE CITY OF CLERMONT APPROVED PRODUCT LIST.
5. ALL WATER SERVICES CROSSING UNDER ROADWAYS TO BE ENCASED IN LARGER SIZE SCHEDULE 40 PVC.
6. EXISTING METER BOXES TO REMAIN, PROVIDE NEW METER BOX FOR NEW SERVICES.
7. MARK CURB "W" WHERE SERVICES ARE LOCATED.
8. PROVIDE TRACER WIRE ALONG SERVICE LINES.
9. SERVICE SADDLES 1" SHALL BE CC THREAD, 1.5" - 2" FIP THREAD.



SINGLE SERVICE

WATER SERVICE CONNECTION DETAILS

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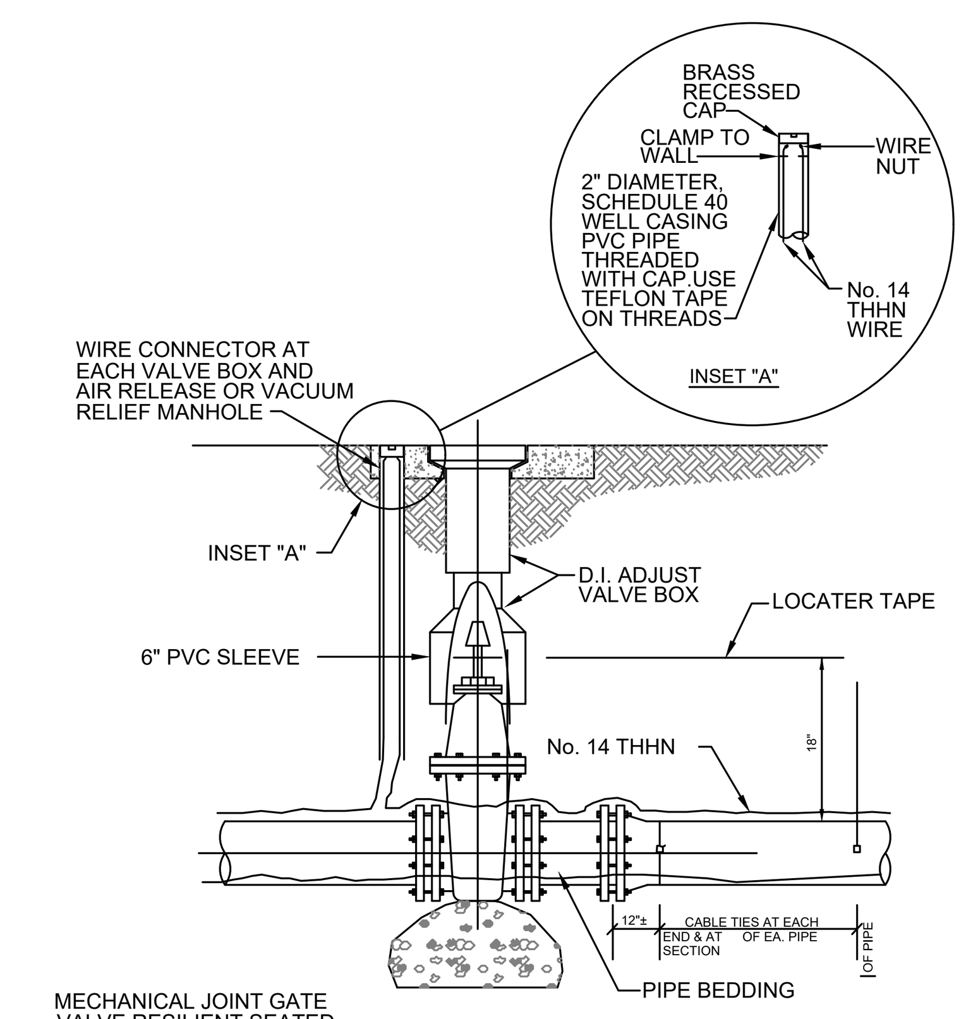
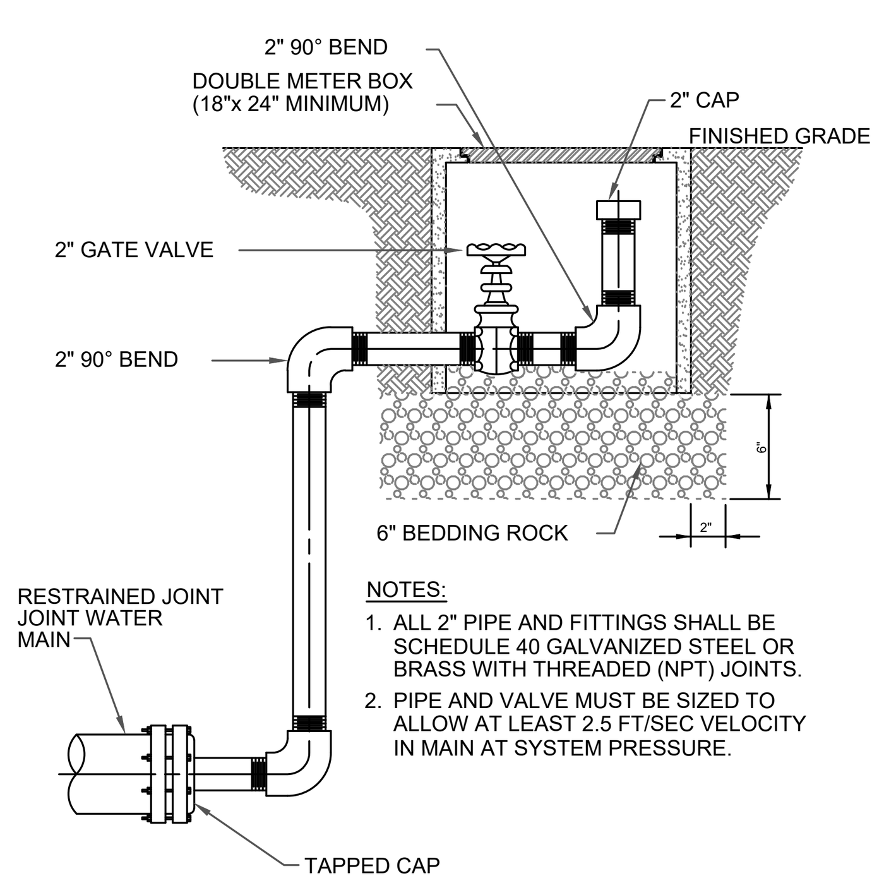


MECHANICAL JOINT GATE VALVE RESILIENT SEATED MUELLER, AMERICAN DARLING, KENNEDY OR DRESSER

NOTE: MARK CURB "V" WHERE VALVES ARE LOCATED

PIPE DETECTOR WIRE MARKER TAPE INSTALLATION

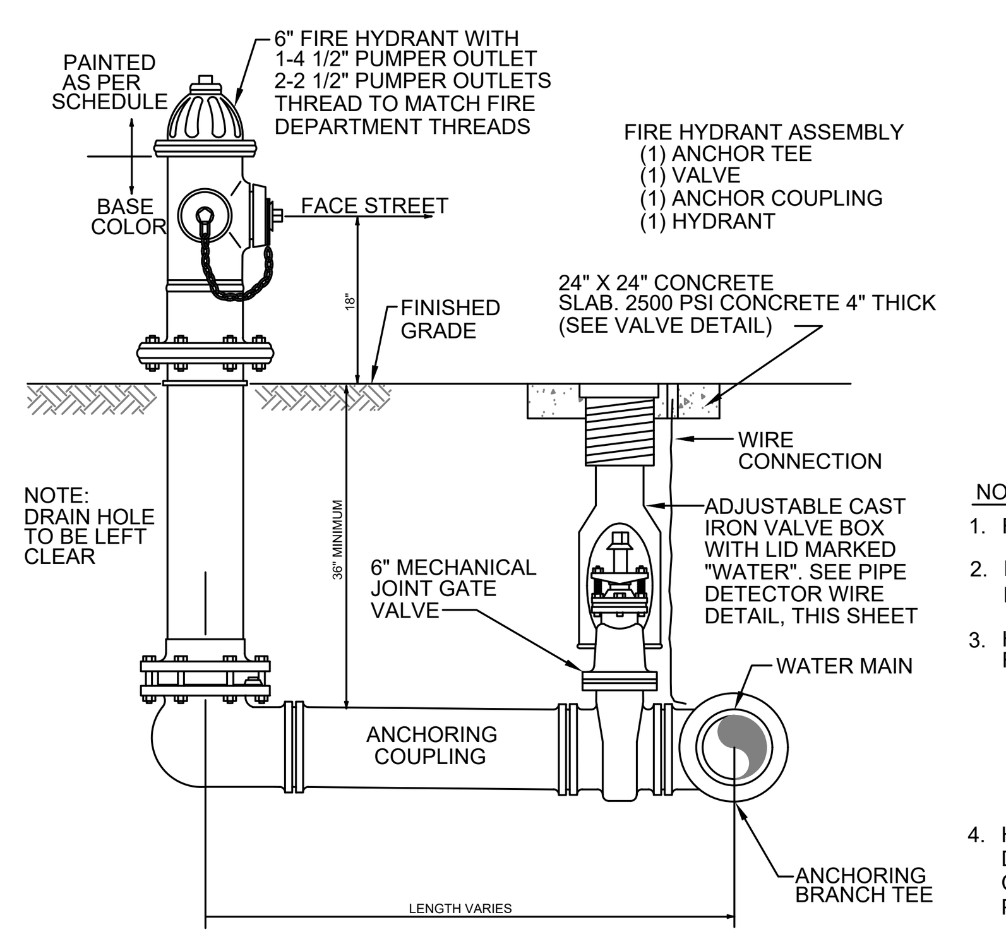
NOT TO SCALE



NOTES:
1. ALL 2" PIPE AND FITTINGS SHALL BE SCHEDULE 40 GALVANIZED STEEL OR BRASS WITH THREADED (NPT) JOINTS.
2. PIPE AND VALVE MUST BE SIZED TO ALLOW AT LEAST 2.5 FT/SEC VELOCITY IN MAIN AT SYSTEM PRESSURE.

BLOWOFF VALVE DETAIL

NOT TO SCALE



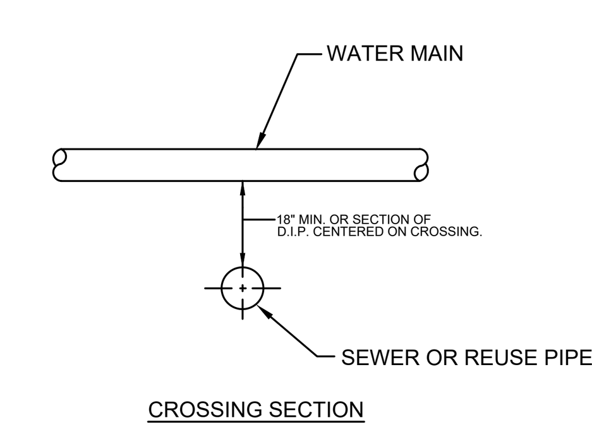
FIRE HYDRANT ASSEMBLY
(1) ANCHOR TEE
(1) VALVE
(1) ANCHOR COUPLING
(1) HYDRANT

NOTES:
1. FIRE HYDRANTS SHALL BE MUELLER A-423.
2. HYDRANT MUST BE PAINTED AT FACTORY BY THE MANUFACTURER.
3. HYDRANT SHALL BE PAINTED IN ACCORDANCE WITH THE FOLLOWING COLORING DESIGNATION BASED ON THE TESTED FLOWS:
   BASE HYDRANT - CITY OWNED AND MAINTAINED YELLOW BASE/BLUE BONNET
   PRIVATELY OWNED RED
   LESS THAN 500 GPM - RED
   500 TO 999 GPM - ORANGE
   1000 TO 1499 - GREEN
   1500 GPM OR GREATER - BLUE
4. HYDRANTS TO BE FLOW TESTED BY CITY UTILITY DEPARTMENT OR COUNTY REPRESENTATIVE. COORDINATE WITH CITY INSPECTOR FOR TESTING PURPOSES.
5. BLUE PAVEMENT MARKERS (BPMs) ARE TO BE INSTALLED IN THE CENTER OF THE DRIVING LANE NEAREST THE HYDRANT.

FIRE HYDRANT DETAIL

(REVISED 12/22/11)

NOT TO SCALE

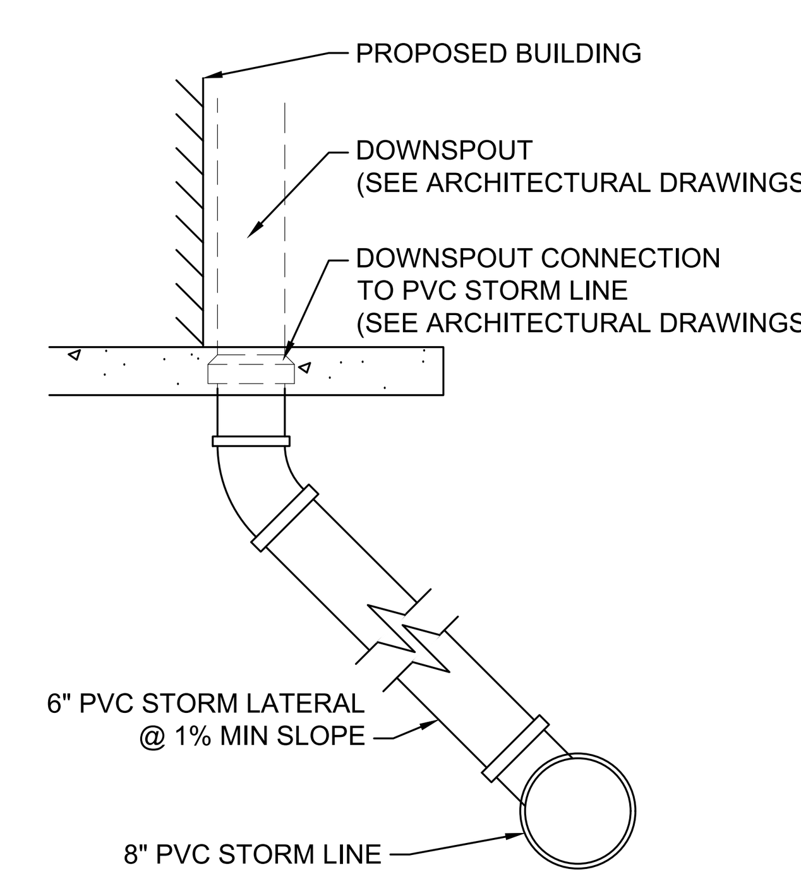


CROSSING SECTION

NOTES:
1. IF WATERMAIN IS LESS THAN 18" ABOVE SEWER OR REUSE PIPE AT A CROSSING, THEN CENTER ONE JOINT OF D.I.P. ON CROSSING POINT.
2. MAINTAIN 10' MINIMUM SEPARATION BETWEEN PARALLEL WATER AND SEWER PIPES. 5' BETWEEN WATER AND REUSE PIPES.
3. DO NOT ENCASE SEWER IN CONCRETE UNLESS SPECIFICALLY AUTHORIZED.
4. ALL PIPING SHALL CLEAR OTHER CONSTRUCTION BY 6" MINIMUM.
5. DUCTILE IRON PIPE WITHIN 10' OF GAS MAIN SHALL BE POLYETHELYNE ENCASED.

PIPING CLEARANCES

NOT TO SCALE



DOWNSPOUT CONNECTION

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6300 HAZELTINE NATIONAL DR, STE. 118 ORLANDO, FL 32822
PHONE (407)410-8624 COA 32059

ISSUE NO.	DATE:	
2	01/09/2024	CITY OF CLERMONT COMMENTS
1	10/09/2023	CITY OF CLERMONT COMMENTS

STATUS: CONSTRUCTION PLANS

REV NO.	DATE:	
2	01/19/2024	REVISIONS PER CITY OF CLERMONT COMMENTS
1	12/05/2023	REVISIONS PER CITY OF CLERMONT COMMENTS

UTILITY AND DRAINAGE DETAILS

WMG - CLERMONT SR 50
CLERMONT, FLORIDA

CAUTION
0 1/2 1
IF THIS SCALE BAR DOES NOT MEASURE 1" THE DOCUMENT IS NOT TO SCALE

ALEX T. GOETZ
LICENSE
No. 86837
STATE OF
01/19/2024
FLORIDA
PROFESSIONAL ENGINEER

ALEX T. GOETZ, P.E.
FLORIDA P.E. #86837

JOB NO: 23-0065.000
DESIGN: M.P.
DRAWN: M.N.
APPROVED: A.G.
SHEET NO: C4.2
REV: 1

P:\23-0065.000 WMG - CLERMONT SR 50\DESIGN\PLANS\CONSTRUCTION\C4.0_DETAILS_WMG50.DWG 1/19/2024