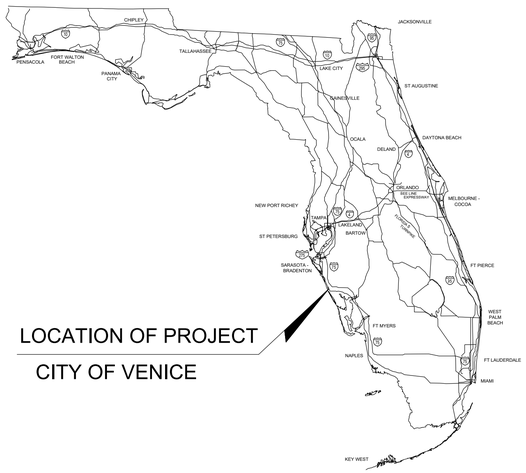
Site and Development Plans
Island Village Montessori School

FOR AGENCY REVIEW



LOCATION MAP

SECTION 32 TOWNSHIP 38S RANGE 19E
2001 PINEBROOK RD. VENICE, FLORIDA 34292-1560

INDEX OF DRAWINGS

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C0.01	GENERAL NOTES & SPEC.
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CITY OF VENICE NOTES:

1. ALL WORK CONDUCTED IN THE CITY OF VENICE RIGHT-OF-WAY (ROW) WILL REQUIRE THE ISSUANCE OF A ROW USE PERMIT.
2. ALL WORK CONDUCTED IN SARASOTA COUNTY AND/OR FDOT ROW SHALL REQUIRE A COPY OF THE ISSUED PERMITS.
3. TREE REMOVAL PERMIT MUST BE OBTAINED FROM THE CITY OF VENICE
4. POST-DEVELOPMENT RUNOFF DOES NOT EXCEED PRE-DEVELOPMENT RUNOFF VOLUME OR RATE FOR A 24-HOUR, 25-YEAR STORM EVENT.
5. ALL FIRE SERVICE BACKFLOW ASSEMBLIES SHALL BE INSTALLED BY A CERTIFIED CONTRACTOR WITH A CLASS I, II, OR V CERTIFICATE OF COMPETENCY ISSUED BY THE STATE FIRE MARSHAL AS PER F.S. 633.521
6. CONSTRUCTION SITE MUST BE POSTED WITH 24-HOUR CONTACT INFORMATION
7. ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, SHALL MEET CITY OF VENICE STANDARDS.
8. CONTACT PUBLIC WORKS SOLID WASTE DIVISION (941-486-2422) FOR APPROVAL OF DUMPSTER LOCATION AND LAYOUT PRIOR TO CONSTRUCTION

PROPERTY ID NUMBER AND ADDRESS:
0386090002

2001 PINEBROOK RD.
VENICE, FLORIDA 34292-1560

SITUS ADDRESS
2341 KILPATRICK RD
NOKOMIS FL 34275

INTENDED USE:
7200 SCHOOL (PRIVATE)

RSF 3 RESIDENTIAL SINGLE FAMILY

ZONING:

ENTITY RESPONSIBLE FOR MAINTENANCE, INCLUDING ALL ON-SITE FACILITIES SUCH AS PARKING AREAS, PIPES, INLETS SIDEWALKS, BUILDING, AND LANDSCAPED FACILITIES.:
ISLAND VILLAGE MONTESSORI CHARTER SCHOOL INC.

NOTES:

THE FACILITIES COMPLY WITH ALL APPLICABLE STANDARDS INCLUDING THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS."

ALL FACILITIES CONTAINED HEREIN HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA ACCESSIBILITY CODE, F.A.C. (FLORIDA STATUTES, SECTIONS 553.501-553.513).

CONSTRUCTION PLAN APPROVAL DOES NOT EXEMPT THE CONTRACTOR FROM OBTAINING THE REQUIRED BUILDING, ELECTRICAL, PLUMBING AND MECHANICAL PERMITS. THESE INCLUDE BUT ARE NOT LIMITED TO ANY STRUCTURE, SIGN, WALL, ENCLOSURE OR SCREENING, ETC.

THE WATER AND SEWER SERVICE WILL BE PROVIDED BY
WATER: CITY OF VENICE PUBLIC UTILITIES
SEWER: CITY OF VENICE PUBLIC UTILITIES

SOLID WASTE WILL BE PROVIDED BY
CITY OF VENICE PUBLIC WORKS

THE POWER SERVICE WILL BE PROVIDED BY
FLORIDA POWER AND LIGHT

ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST VERSION OF THE CITY OF VENICE STANDARD DETAILS. CITY OF VENICE STANDARD DETAILS SHALL SUPERSEDE ANY REQUIREMENTS WHICH ARE IN CONFLICT.

ENGINEER'S QUANTITY ESTIMATE OF INFRASTRUCTURE IMPROVEMENTS

LINEAR FEET OF SANITARY SERVICE LINE	=536 LF
LINEAR FEET OF POTABLE WATER SERVICE	=538 LF
LINEAR FEET OF FIRE LINE	= 435 LF

PLANS PREPARED BY:

Fisher Engineering
CIVIL ENGINEERING CONSULTANTS

1817 PINYON PINE DRIVE SARASOTA, FLORIDA 34240
CELL: 941-822-9731 OFFICE: 941-203-8565
EMAIL: gfisher@fisherengr.com WEB: fisherengr.com

ROBERT GREGGORY FISHER LICENSE No. 58839 STATE OF FLORIDA PROFESSIONAL ENGINEER

This item has been electronically signed and sealed by Robert G. Fisher, P.E. on 03/01/2021 using a ***SHA*** authentication code.

Printed copies of this document are not considered signed and sealed and the ***SHA*** authentication code must be verified on any electronic copies.

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REVISIONS:

DATE	DESCRIPTION
2021/01/06	COMMENTS PER COV

ENGINEER'S CERTIFICATE OF COMPLIANCE:

I HEREBY CERTIFY THAT THE DESIGN OF THIS PROJECT, AS PREPARED UNDER MY PERSONAL DIRECTION AND CONTROL, COMPLIES WITH ALL APPLICABLE STANDARDS INCLUDING THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS", AS APPLICABLE, AS ADOPTED BY THE FLORIDA DEPT. OF TRANSPORTATION PURSUANT TO SUBSECTIONS 335.075(1) AND (4), FLORIDA STATUTES.

Robert G Fisher
2021.03.01 09:20:15 -05'00'

X DATE

ROBERT G. FISHER P.E.
FLORIDA. LIC. NO. 58839
C.A. NO. 31696

GENERAL NOTES:

1. THE REQUIREMENTS OF THE LOCAL JURISDICTION UTILITIES STANDARD SPECIFICATIONS AND STANDARD DETAILS SHALL GOVERN ALL UTILITY WORK. WHERE A CONFLICT EXISTS IN THE REQUIREMENTS OF A REFERENCED MATERIAL OR INSTALLATION STANDARD, THE REQUIREMENTS OF THE LOCAL JURISDICTION UTILITIES SHALL PREVAIL. WHERE THE REQUIREMENTS OF A STATE OR LOCAL AGENCY HAVING JURISDICTION ARE MORE STRINGENT, THOSE REQUIREMENTS SHALL PREVAIL.

2. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE, AT ALL TIMES, ONE COPY OF THE LOCAL JURISDICTION UTILITIES STANDARD SPECIFICATIONS AND STANDARD DETAILS, ONE COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS AND SPECIAL PROVISIONS, AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.

3. THE CONTRACTOR SHALL CALL SUNSHINE STATE ONE (WWW.CALLSUNSHINE.COM) AT 811TWO BUSINESS DAYS BEFORE DIG, BUT NO MORE THAN FIVE DAYS. THE CONTRACTOR SHALL HAVE ALL INFORMATION READY WHEN CALLING, AND PRE-COORDINATED WITH SUNSHINE ONE PRIOR TO THIS CALL. SUNSHINE ONE WILL HELP LOCATE BURIED FACILITIES, INCLUDING BUT NOT LIMITED TO ELECTRIC, GAS, TELEPHONE, CABLE, WATER, ETC. AND OTHERS. DIG SAFELY, USING EXTREME CAUTION WHEN DIGGING TO AVOID HITTING THE BURIED UTILITY LINES.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE TO UNDERGROUND UTILITIES. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITY CABLES, SANITARY SEWER LINES, STORM SEWER LINES, RECLAIMED WATER LINES, WATER LINES, AND SPRINKLER LINES, OVERHEAD UTILITIES AND APPLICABLE APPURTANCES. UTILITIES INCLUDE UTILITIES SHOWN ON THE PLAN, BUT IN NO WAY ARE UTILITIES LIMITED TO THOSE SHOWN ON THE PLAN. THE ENGINEER DOES NOT ISSUE ANY GUARANTEE THAT ALL THE UTILITIES ARE SHOWN ON THE PLANS.

5. PRIOR TO COMMENCING OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH THE "UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT," EFFECTIVE OCTOBER 1, 2002 AND AS AMENDED CHAPTER 556, FLORIDA STATUTES (F.S.), REGARDING UNDERGROUND UTILITIES

6. CONTRACTOR IS RESPONSIBLE FOR CHECKING ACTUAL SITE CONDITIONS BEFORE STARTING CONSTRUCTION.

7. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE COMMENCING WORK.

8. CONTRACTOR SHALL OBTAIN ALL REQUIRED LOCAL JURISDICTIONAL AND STATE PERMITS BEFORE COMMENCING WORK.

9. NO CONSTRUCTION SHALL BEGIN UNTIL THE CONTRACTOR RECEIVES HIS "NOTICE TO PROCEED" AND OBTAINS ALL PERMITS.

10. PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, AREAS WITHIN AND ADJOINING THE LIMITS OF CONSTRUCTIONS SHALL BE PROTECTED BY ERECTION OF TREE PROTECTION BARRICADES AND / OR SILT BARRIERS. SILT BARRIERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES DETAIL DRAWING.

11. CONSTRUCTION SITE MUST BE POSTED WITH 24-HOUR CONTACT INFORMATION.

12. ALL NON-UTILITY RELATED CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOCAL JURISDICTION, THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, THE FLORIDA DEPARTMENT OF TRANSPORTATION AND THE STATE OF FLORIDA AS APPLICABLE.

13. NO FIELD CHANGES OR DEVIATION FROM DESIGN TO BE MADE WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER.

14. CONTRACTOR MUST ADHERE TO FEDERAL REGISTER VOL. 58, NO. 9, RULES AND REGULATIONS, PAGE 4552 AND THE O.S.H.A. TRENCH SAFETY ACT. 9.

15. CONSTRUCTION SHALL BE IN COMPLIANCE WITH AMERICANS WITH DISABILITIES (ADA) AND THE FLORIDA ACCESSIBILITY CODE.

16. CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE FAIR HOUSING ACT DESIGN MANUAL.

17. ALL REQUIRED NON-UTILITY ONSITE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE THE LOCAL JURISDICTION LAND DEVELOPMENT REGULATIONS FOR SITE DEVELOPMENT PLANS.

18. CONSTRUCTION WITHIN FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) RIGHT OF WAY SHALL CONFORM TO FDOT DESIGN STANDARDS (LATEST EDITION) AND FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).

19. WATER AND SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOCAL JURISDICTION UTILITIES PROVISIONS FOR WATER AND SEWER DISTRIBUTION SYSTEMS.

20. ALL DISTURBED OR DAMAGED AREAS TO BE RESTORED TO THE SAME OR BETTER CONDITION THAN THAT PRIOR TO THE START OF CONSTRUCTION.

21. EXISTING PROPERTY CORNERS, LEGAL SECTION CORNERS, AND OTHER LAND MARKERS OR MONUMENTS LOCATED WITHIN THE PROPOSED PROJECT ARE TO BE "WITNESSED" PRIOR TO CONSTRUCTION AND RESET IF DISTURBED, AFTER CONSTRUCTION BY A "FLORIDA LICENSED PROFESSIONAL LAND SURVEYOR.

22. CONTRACTOR SHALL PLACE SOD AT THE BACK OF ALL CURBS, PAVEMENT EDGES, SWALES AND DETENTION AREAS.

23. CONTRACTOR SHALL SOD ALL DISTURBED AREAS WITHIN THE CITY/COUNTY RIGHT OF WAY.

24. ALL PROPOSED GROUND ELEVATIONS ARE FINISHED SOD ELEVATIONS. FINISH GRADING SHOULD BE 0.2' LESS THAN THE ELEVATIONS SHOWN TO ALLOW FOR SOD THICKNESS.

25. ALL WORK TO BE COMPLETED WITHIN CITY/COUNTY RIGHT-OF-WAY SHALL REQUIRE RIGHT-OF-WAY PERMIT.

26. THE CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN TEMPORARY SIGNAGE IN ACCORDANCE WITH THE CURRENT FLORIDA DOT STANDARDS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS AMENDED AND SHALL MAINTAIN LOCAL TRAFFIC AT ALL TIMES.

27. SIDEWALK CROSS SLOPE NOT TO EXCEED 2%.

28. ALL WASTE WILL BE SELF-HAULED OFFSITE BY CONTRACTOR.

29. ALL CLEARING, GRUBBING, AND CONSTRUCTION DEBRIS TO BE REMOVED FROM SITE AND PROPERLY DISPOSED.

30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND OBTAIN COVERAGE UNDER A NPDES STORM WATER PERMIT. A COPY OF THE SWPPP SHALL BE KEPT ONSITE AT ALL TIMES.

31. ALL PAVEMENT MARKINGS, EXCEPT PARKING STALLS, SHALL BE "ALKYD THERMOPLASTIC 90 MILS IN THICKNESS" IN ACCORDANCE WITH THE LOCAL JURISDICTION TECHNICAL PROVISIONS.

32. ALL TRAFFIC CONTROL SIGNS WITHIN THE PROJECT SHALL BE MANUFACTURED USING DIAMOND GRADE REFLECTIVE SHEETING (OR AN EQUIVALENT). ALL SIGNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MUTCD CRITERIA FOR SIGN SIZE AND SHAPE AND LETTERING DIMENSIONS.

33. ALL TRAFFIC SIGN POSTS WITHIN THE PROJECT SHALL BE 2"x2" SQUARE BREAK-AWAY 14 GAUGE GALVANIZED STEEL WITH PUNCHED HOLES. THE TAPCO V-LOC VS1P-350 SYSTEM SHALL BE EMPLOYED WHERE SIGN POSTS ARE TO BE INSTALLED IN PAVED AREAS.

34. ALL CONCRETE FOR ROADWAY AND DRAINAGE STRUCTURES SHALL BE 3000 PSI (FDOT STANDARD SPECIFICATIONS SECTION 346).

35. ALL DRAINAGE CULVERT JOINTS SHALL BE WRAPPED PER FDOT INDEX 280.

36. CONTRACTOR SHALL PAVE INVERTS IN DRAINAGE STRUCTURES TO PREVENT IMPOUNDED WATER.

37. IN THE EVENT THAT THE PROJECT IS CLOSED DOWN OR ABANDONED DURING CONSTRUCTION OR PRIOR TO PROJECT COMPLETION IT IS THE CONTRACTOR REASONABILITY TO REMOVE ALL STOCKPILED VEGETATION DEBRIS AND FILL MATERIAL FROM THE SITE.

38.
A. EROSION AND SEDIMENT CONTROL BMPS IN ADDITION TO THOSE PRESENTED ON THE PLANS AND OUTLINED IN THE EROSION AND SEDIMENT CONTROL PLAN (ECP) SHALL BE IMPLEMENTED AS NECESSARY TO PREVENT TURBID DISCHARGES FROM FLOWING ONTO ADJACENT PROPERTIES OR ROADWAYS, OFF SITE STORMWATER CONVEYANCES OR RECEIVING WATERS, OR ON SITE WETLANDS AND SURFACE WATERS. BMPS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED BY THE SITE OPERATOR TO ENSURE THAT OFF SITE SURFACE WATER QUALITY REMAINS CONSISTENT WITH STATE AND LOCAL REGULATIONS. [THE OPERATOR IS THE ENTITY THAT OWNS OR OPERATES THE CONSTRUCTION ACTIVITY AND HAS AUTHORITY TO CONTROL THOSE ACTIVITIES AT THE PROJECT NECESSARY TO ENSURE COMPLIANCE.]

B. OFF SITE SURFACE WATER DISCHARGES, DISCHARGES TO THE MS4, OR DISCHARGES TO ONSITE WETLANDS OR SURFACE WATERS WITH TURBIDITY IN EXCESS OF 29 NEPHELOMETRIC TURBIDITY UNITS (NTUS) ABOVE BACKGROUND LEVEL SHALL BE IMMEDIATELY CORRECTED. SUCH INCIDENTS SHALL BE REPORTED TO THE LOCAL JURISDICTION WATER RESOURCES DEPARTMENT WITHIN 24 HOURS OF THE OCCURRENCE. THE REPORT SHALL INCLUDE THE CAUSE OF THE DISCHARGE AND CORRECTIVE ACTIONS TAKEN.

C. THE OPERATOR SHALL ENSURE THAT ADJACENT PROPERTIES ARE NOT IMPACTED BY WIND EROSION, OR EMISSIONS OF UNCONFINED PARTICULATE MATTER IN ACCORDANCE WITH RULE 62-296.320(4)(C)1, F.A.C., BY TAKING APPROPRIATE MEASURES TO STABILIZE AFFECTED AREAS.

D. FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ENTER STORMWATER DRAINS OR WATERBODIES, OR FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ARE IN EXCESS OF 25 GALLONS SHALL BE CONTAINED, CLEANED UP, AND IMMEDIATELY REPORTED TO THE LOCAL JURISDICTION WATER RESOURCES DEPARTMENT. SMALLER GROUND SURFACE SPILLS SHALL BE CLEANED UP AS SOON AS PRACTICAL.

E. IF CONTAMINATED SOIL AND/OR GROUNDWATER IS DISCOVERED DURING DEVELOPMENT OF THE SITE, ALL ACTIVITY IN THE VICINITY OF THE CONTAMINATION SHALL IMMEDIATELY CEASE, AND THE LOCAL JURISDICTION WATER RESOURCES DEPARTMENT SHALL BE CONTACTED.

F. THE DISCHARGE OF GROUNDWATER PRODUCED THROUGH DEWATERING, TO SURFACE WATERS, OR TO ANY PORTION OF THE MS4 WILL REQUIRE SEPARATE PERMITTING FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP). PERMIT(S) SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF DEWATERING. ANALYTICAL RESULTS FROM PRE-DISCHARGE TESTING SHALL BE PROVIDED TO THE LOCAL JURISDICTION WATER RESOURCES DEPARTMENT.

G. FERTILIZER APPLICATION SHALL BE CONSISTENT WITH THE LOCAL JURISDICTION CODE.

39. ANY WELLS DISCOVERED DURING EXCAVATION, EARTHMOVING OR CONSTRUCTION MUST BE REPORTED TO THE LOCAL JURISDICTION OR HEALTH DEPARTMENT OF ENVIRONMENTAL HEALTH WITHIN 24 HR OF DISCOVERY.

FDOT GENERAL NOTES

1. ALL CONSTRUCTION WITHIN THE FDOT RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH CURRENT FDOT STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION AND THE ROADWAY AND TRAFFIC DESIGN STANDARD INDEX. CONTRACTOR SHALL COORDINATE WITH LOCAL FDOT OFFICE AND PERSONNEL WHEN WORKING WITHIN FDOT RIGHT-OF-WAY.

2. ALL SIGNING AND STRIPING WITHIN THE FDOT RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH FDOT STANDARD INDEX 17346.

3. ALL RPM PLACEMENT WITHIN THE FDOT RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH FDOT STANDARD INDEX 17352.

NATURAL RESOURCE NOTES

1. IMPACTS TO STATE AND FEDERALLY PROTECTED SPECIES AS LISTED IN THE MOST CURRENT VERSION OF "FLORIDA'S ENDANGERED SPECIES, THREATENED SPECIES AND SPECIES OF SPECIAL CONCERN: OFFICIAL LISTS" PREPARED BY THE FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC) ARE NOT AUTHORIZED BY THIS PERMIT. THESE SPECIES MAY INCLUDE, BUT ARE NOT LIMITED TO, FLORIDA SCRUB JAY, AMERICAN BALD EAGLE, SHERMAN'S FOX SQUIRREL, BURROWING OWL, GOPHER TORTOISE, GOPHER FROG, AND EASTERN INDIGO SNAKE. PROTECTION EXTENDS TO THE NESTS, BURROWS AND HABITAT UTILIZED BY THESE SPECIES. IF A LISTED SPECIES (OR ITS EVIDENCE, SUCH AS BURROWS, NESTS, SCAT, TRACKS) THAT WAS NOT ADDRESSED IN THIS
PERMIT IS OBSERVED PRIOR TO OR DURING CONSTRUCTION, ALL CLEARING AND EARTHMOVING ON-SITE SHALL CEASE. THE PERMITTEE SHALL CONSULT WITH THE FWC REGIONAL OFFICE AND/OR THE U.S. FISH AND WILDLIFE SERVICE REGIONAL OFFICE REGARDING NECESSARY PROTECTION MEASURES AND PROVIDE EVIDENCE OF SUCH CONSULTATION TO RESOURCE PROTECTION SERVICES PRIOR TO RESUMING WORK.

2. IF ANY TYPE A FILL (CLEAN EARTHEN MATERIAL) IS TO BE HAULED OFF-SITE, AN EARTHMOVING PERMIT OR LETTER OF EXEMPTION IS REQUIRED FROM RESOURCE PROTECTION SERVICES. IF ANY TYPE A FILL HAULED OFF-SITE IS TO BE STOCKPILED OR FILLED UPON PRIVATE PROPERTIES, THE RECEIVING PROPERTY(S)SHALL POSSESS AUTHORIZATION IN THE FORM OF AN EARTHMOVING PERMIT, A WRITTEN EARTHMOVING EXEMPTION, A BUILDING PERMIT, OR CONSTRUCTION PLAN APPROVAL PRIOR TO RECEIVING SAID
FILL. NO TYPE B (CONCRETE, BROKEN ASPHALT, ROCKS), TYPE C (VEGETATIVE LAND CLEARING DEBRIS), OR TYPE D (GARBAGE, REFUSE, WOOD, METAL, PLASTIC, ETC.) FILL MAY BE BURIED WITHIN OR OUTSIDE APPROVED CONSTRUCTION LIMITS. TYPE D FILL MUST BE DISPOSED AT AN APPROVED LANDFILL OR RECYCLING FACILITY. TYPE B, C, AND D FILLS GENERATED ON-SITE SHALL NOT BE STOCKPILED ON-SITE FOR GREATER THAN SIX MONTHS. TYPE B, C, AND D FILLS SHALL NOT BE HAULED TO THE SITE FROM OFF-SITE SOURCES.

TRENCH EXCAVATION AND BACKFILL:

1. MATERIAL SUITABLE FOR BACKFILL IN A PROPERLY DEWATERED TRENCH SHALL NOT BE EXPANSIVE NOR HAVE HIGH ORGANIC CONTENT, SHALL BE FREE OF DEBRIS, LUMPS AND CLODS, AND SHALL MEET THE FOLLOWING REQUIREMENTS:

BROKEN CONCRETE SHALL NOT BE USED. FILL MATERIAL CONTAINING LIMEROCK SHALL HAVE SUFFICIENT SAND TO FILL THE VOIDS IN THE LIMEROCK. NO STONES OR ROCKS LARGER THAN THREE INCHES IN DIAMETER WILL BE PERMITTED IN ANY BACKFILL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES OR IN THE UPPER SIX INCHES OF ALL BACKFILL AND FILLS SHALL NOT CONTAIN ANY STONES OR ROCKS LARGER THAN ONE INCH IN DIAMETER.

EXISTING BACKFILL MATERIAL MAY BE USED, ONLY IF IT MEETS THE ABOVE-MENTIONED REQUIREMENTS.

2. READY-MIX FLOWABLE FILL, OR CONTROLLED LOW STRENGTH MATERIAL (CLSM) MAY BE SUBSTITUTED AS AN ALTERNATIVE TO COMPACTED SOIL WITH THE APPROVAL OF THE ENGINEER OR IF SHOWN ON THE PLANS. APPLICATIONS FOR THE MATERIAL INCLUDE BEDDINGS, ENCASEMENTS, CLOSURES FOR TANKS AND PIPES, AND GENERAL BACKFILL APPLICATIONS FOR TRENCHES AND ABUTMENTS. FLOWABLE FILL CAN BE DESIGNED TO BE EXCAVATEABLE, PUMPABLE
OR FOR APPLICATIONS WHERE STRENGTH IS MORE IMPORTANT THAN EXCAVATABLITY. IF FLOWABLE FILL IS SPECIFIED, ULTIMATE COMPRESSIVE STRENGTH MUST BE LESS THAN 200 PSI AT 28 DAYS.

3. FOUNDATION MATERIAL OR BEDDING ROCK SHALL BE USED FOR BEDDING OF PIPE AND/OR MANHOLES AS INDICATED ON THE DRAWINGS. CRUSHED STONE SHALL CONSIST OF HARD, DURABLE, SUB-ANGULAR PARTICLES OF PROPER SIZE AND GRADATION, AND SHALL BE FREE FROM ORGANIC MATERIAL, WOOD, TRASH, SAND, LOAM, CLAY, EXCESS FINES AND OTHER DELETERIOUS MATERIALS. THE STONE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C33, SIZE No. 57 (3/4 INCH ROCK) AND BE GRADED WITHIN THE FOLLOWING LIMITS:

SAND FOR BEDDING POLYVINYL CHLORIDE (PVC) PIPE SHALL BE A DRY SCREENED SAND. SAND SHALL BE GRADED SAND WITH 100 PERCENT PASSING 1 3/8 INCH SIEVE AND NOT MORE THAN FIVE PERCENT PASSING A No. 200 SIEVE. ALL PIPE BEDDING MATERIAL SHALL BE NEW. EXISTING PIPE BEDDING MATERIAL MAY NOT BE USED.

4. FOUNDATION STABILIZATION MATERIAL SHALL BE REQUIRED AS SPECIFIED IN THE PLANS OR AS DIRECTED BY THE ENGINEER OR THE LOCAL JURISDICTION. WHEN, IN THE OPINION OF THE ENGINEER OR THE LOCAL JURISDICTION, THE EXISTING MATERIAL IN THE BOTTOM OF THE TRENCH IS UNSUITABLE FOR SUPPORTING THE PIPE, EXCAVATE BELOW THE FLOW LINE OF THE PIPE, AS DIRECTED BY THE ENGINEER OR LOCAL JURISDICTION. BACKFILL THE TRENCH TO SPECIFIED GRADE WITH FOUNDATION STABILIZATION MATERIAL. IF THE TRENCH IS PROPERLY DEWATERED, SUITABLE BACKFILL MATERIAL MAY BE USED FOR STABILIZATION. CRUSHED ROCK SHALL BE USED WHEN A DRY TRENCH CANNOT BE OBTAINED. PLACE THE FOUNDATION STABILIZATION MATERIAL OVER THE FULL WIDTH OF THE TRENCH AND COMPACT IN LAYERS NOT EXCEEDING SIX INCHES DEEP TO THE REQUIRED GRADE.

5. BACKFILLING OF TRENCHES WILL NOT BE ALLOWED UNTIL THE WORK HAS BEEN REVIEWED BY THE LOCAL JURISDICTION. ANY WORK COVERED UP OR CONCEALED WITHOUT THE KNOWLEDGE OR CONSENT OF THE LOCAL JURISDICTION MAY BE REQUIRED TO BE UNCOVERED OR EXPOSED AT THE CONTRACTOR'S EXPENSE.

6. IF MORE STRINGENT COMPACTION REQUIREMENTS ARE GIVEN IN ANY OTHER DOCUMENTATION APPLICABLE TO THE WORK BEING PERFORMED, THOSE REQUIREMENTS WILL APPLY.

7. DENSITY TESTS REQUIRED FOR EACH 12" LIFT AT A MINIMUM OF ONE TEST PER 200 FEET OF TRENCH.

8. MAGNETIC LOCATION TAPE WITH A MINIMUM WIDTH OF TWO AND ONE HALF (2 1/2) INCHES IS TO BE LAID DIRECTLY ABOVE THE PIPE AND EIGHTEEN (18) INCHES BELOW THE GROUND SURFACE. TAPE IS TO BE OF COLOR AND MARKING TO CORRESPOND TO THE PIPING LAID. TAPE ENDS ARE TO BE SPLICED TOGETHER SO AS TO PRODUCE A CONTINUOUS LENGTH OF LOCATION TAPE.

9. ALL WELL POINT HOLES THAT WILL BE UNDER PARKING, DRIVING OR ROADWAY SURFACES SHALL BE BACKFILLED WITH CONCRETE IMMEDIATELY AFTER PULLING THE WELL POINTS. ALL OTHER WELL POINT HOLES SHALL BE BACKFILLED WITH FDOT No. 89 STONE IMMMEDIATELY AFTER PULLING THE WELL POINTS UNLESS SPECIFIED OR DIRECTED TO DO OTHERWISE.

FORTUITOUS FINDS STATEMENT

1. THE FOLLOWING REQUIREMENTS APPLY TO ALL BUILDING CONSTRUCTION OR ALTERATION, OR LAND ALTERATION ACTIVITIES:

a. IF EVIDENCE OF THE EXISTENCE OF HISTORIC RESOURCES IS DISCOVERED OR OBSERVED AT DEVELOPMENT SITES OR DURING DEVELOPMENT ACTIVITIES AFTER FINAL APPROVAL, ALL WORK SHALL CEASE IN THE AREA OF EFFECT AS DETERMINED BY THE LOCAL JURISDICTION. THE DEVELOPER, OWNER, CONTRACTOR, OR AGENT THEREOF SHALL NOTIFY THE LOCAL JURISDICTION OF HISTORICAL RESOURCES WITHIN TWO WORKING DAYS. EXAMPLES OF SUCH EVIDENCE INCLUDE WHOLE OR FRAGMENTARY STONE TOOLS, SHELL TOOLS, ABORIGINAL OR HISTORIC POTTERY, HISTORIC GLASS, HISTORIC BOTTLES, BONE TOOLS, HISTORIC BUILDING FOUNDATIONS, SHELL MOUNDS, SHELL MIDDENS, OR SAND MOUNDS. THE DIRECTOR SHALL ASSESS THE SIGNIFICANCE OF THE FINDS WITHIN THREE WORKING DAYS OF NOTIFICATION AND TO MITIGATE ANY ADVERSE EFFECTS SO AS TO MINIMIZE DELAYS TO DEVELOPMENT ACTIVITIES.

b. IF ANY HUMAN SKELETAL REMAINS OR ASSOCIATED BURIAL ARTIFACTS ARE DISCOVERED AT DEVELOPMENT SITES OR DURING DEVELOPMENT ACTIVITY, ALL WORK IN THE AREA MUST CEASE, AND THE PERMITTEE MUST IMMEDIATELY NOTIFY THE NEAREST LAW ENFORCEMENT OFFICE AND NOTIFY THE LOCAL JURISDICTION WITHIN TWO WORKING DAYS. ACCORDING TO CHAPTER 872, FLORIDA STATUTES, IT IS UNLAWFUL TO DISTURB, VANDALIZE, OR DAMAGE A HUMAN BURIAL.

PAVING, GRADING AND DRAINAGE NOTES

1. REFER TO THE GENERAL SITE CONSTRUCTION NOTES, SUPPLEMENTAL SPECIFICATIONS (IF APPLICABLE), AND PLAN SPECIFIC NOTES FOR SUPPLEMENTAL PAVING, GRADING AND DRAINAGE CONSTRUCTION REQUIREMENTS.

2. THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO COMMENCING WITH CONSTRUCTION. ANY OBSERVED SILTATION, DEBRIS, AND/OR EROSION SHALL BE CORRECTED AS SOON AS PRACTICAL IN ORDER TO AVOID ADVERSE STORMWATER DISCHARGE (QUANTITY OR QUALITY). REFER TO BEST MANAGEMENT PRACTICES AND GUIDELINES INCLUDED IN THE PLANS.

3. ALL PROPOSED DRAINAGE PIPE SHALL BE CONCRETE OR HDPE, AS SPECIFIED, UNLESS OTHERWISE NOTED. CONCRETE PIPE SHALL BE RCP CLASS III AND BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE LATEST FDOT STANDARD SPECIFICATIONS. CORRUGATED POLYETHYLENE (HDPE) PIPE SHALL MEET AASHTO M-294 AND BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE LATEST FDOT STANDARD SPECIFICATIONS. ALL RCP/ERCP JOINTS SHALL BE WRAPPED IN ACCORDANCE WITH THE FDOT STANDARD SPECIFICATION LATEST EDITION. PVC USED FOR DRAINAGE SYSTEMS SHALL BE SCHEDULE 40 PVC, COLOR CODED WHITE UNLESS OTHERWISED SPECIFIED.

4. UNLESS PROPOSED OTHERWISE, ALL AREAS (PAVED AND UNPAVED) SHALL BE GRADED TO ASSURE POSITIVE DRAINAGE.

5. PROPOSED FINISHED GRADE IN UNPAVED AREAS REPRESENTS TOP OF SOD. CONTRACTOR SHALL ALLOW 2 INCHES IN FINAL GRADING FOR SOD PLACEMENT.

6. THE CONTRACTOR SHALL USE DUE CARE WHILE FINISHING ALL PAVED SURFACES TO ASSURE POSITIVE DRAINAGE AND PRECLUDE PONDED WATER OR “BIRD BATHS.”

7. PAVED INVERTS WITHIN THE DRAINAGE STRUCTURES SHALL BE PROVIDED IN ORDER TO PRECLUDE PONDED WATER.

8. THE CONTRACTOR SHALL LAY SOD AROUND ALL INLETS, MITERED ENDWALLS, HEADWALLS, SWALES, SLOPES, ADJACENT TO EDGE OF PAVEMENT AND ADJACENT TO BACK OF CURB AS SHOWN IN DETAILS OR AS DIRECTED BY THE ENGINEER. ALL LANDSCAPED AREAS SHALL BE SODDED UNLESS NOTED OTHERWISE ON THE PLANS.

10. ALL ROOF SURFACES SHALL BE COLLECTED. PROPOSED ROOF DRAINS TO BE CONNECTED TO THE STORMWATER COLLECTION SYSTEM AS DEPICTED WITHIN THE PLANS FOR CONVEYANCE TO PROPOSED STORMWATER MANAGEMENT SYSTEM.

11. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS OTHERWISE NOTED.

12. THE CONTRACTOR SHALL PROVIDE SIGNED AND SEALED AS-BUILT SURVEY RECORD DRAWINGS PREPARED BY A PROFESSIONAL SURVEYOR AND MAPPER REGISTERED IN THE STATE OF FLORIDA. THE RECORD DRAWINGS SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW AND CONCURRENCE AND SHALL INDICATE HORIZONTAL AND VERICAL DIMENSIONAL AND TOPOGRAPHICAL DATA SO THAT CONSTRUCTED IMPROVEMENTS MAY BE LOCATED AND DELINEATED SO THE ENGINEER OF RECORD CAN DETERMINE IF THE IMPROVEMENTS WERE CONSTRUCTED IN CONFORMANCE WITH THE APPROVED CONSTRUCTION PLANS. AS-BUILT DRAWING PRESENTATION AND DATA SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE RULING AGENCIES. IT SHALL BE NOTED THAT THE RECORD DRAWING PLANS MAY BE REQUIRED TO BE PREPARED ON THE ENGINEERING BASE PLANS AS PERMITTED BY THE AGENCY HAVING JURISDICITION.

13. ALL SURFACE WATER DISCHARGES FROM THE PROPERTY SHALL COMPLY WITH THE STATE WATER QUALITY STANDARDS CONTAINED IN DEPARTMENT OF ENVIRONMENTAL PROTECTION RULES, CHAPTER 62-302, FLORIDA ADMINISTRATIVE CODE (F.A.C.).

14. THE CONTRACTOR SHALL AVOID ADVERSELY IMPACTING THE EXISTING DRAINAGE SYSTEMS. THEY SHALL BE MAINTAINED FOR FUNCTION AND CAPACITY THROUGHOUT THE DURATION OF THE CONSTRUCTION.

⚠1

15. DURING DRAINAGE PIPE INSTALLATION, THE CONTRACTOR SHALL IMMEDIATELY BACKFILL THE TRENCH AFTER SECTIONS OF PIPE ARE INSTALLED. MAXIMUM OPEN TRENCH LENGTH SHALL BE 30 FEET.

16. ALL DRAINAGE PIPE SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS, UNLESS COORDINATED OTHERWISE.

17. HANDICAP SIDEWALK RAMPS ARE TO BE CONSTRUCTED AND EMBOSSED PER FDOT INDEX 304. CURB RAMPS AND SIDE FLARES SHALL COMPLY TO THE FLORIDA ACCESSIBILITY CODE. DETECTABLE WARNING TEXTURES ON WALKING SURFACES SHALL BE PROVIDED IN ACCORDANCE WITH THE FLORIDA ACCESSIBILITY CODE AND FDOT STANDARDS.

18. ALL ROADWAY, CURB AND DRAINAGE STRUCTURES ARE REQUIRED TO BE 3000 PSI CONCRETE MINIMUM.

19. SIDEWALKS ARE TO HAVE EXPANSION JOINTS AT A MAXIMUM SPACING OF 50 FEET AND CONTRACTION JOINTS AT INTERVALS EQUAL TO THE WIDTH OF THE SLAB, BUT NOT MORE THAN TEN FEET. NO JOINTS SHALL BE CLOSER THAN FOUR FEET.

20. ANY EXISITING UNSUITABLE OR ORGANIC SOIL MATERIAL SHALL BE REMOVED FROM UNDER PAVEMENT AND FIVE FEET BEHIND CURB AND FROM UNDER BUILDING PADS AND FIVE FEET OUTSIDE OF BUILDING PADS. A GEOTECHNICAL ENGINEER SHALL INDICATE THE REMOVAL DEPTH AND SHALL VERIFY THAT ORGANIC AND OTHER UNSUITABLE MATERIAL HAVE BEEN REMOVED.

21. ALL STEEL GRATES (GRATES AND FRAMES) PROPOSED IN PAVED AREAS SHALL BE RATED FOR H-20 LOADING. GRATES PROPOSED IN UNPAVED AREAS NOT ANTICIPATING VEHICULAR LOADING (I.E. CONTROL STRUCTURES) MAY BE STANDARD LOADING. ALL CASTINGS (RINGS, COVERS, CLEAN-OUTS, ETC.) PROPOSED IN PAVED OR UNPAVED AREAS SHALL BE RATED FOR H-20 LOADING.

22. ANY PROPOSED UNDERDRAIN SYSTEMS (WHERE APPLICABLE) SHALL INCLUDE ALL CLEAN-OUTS, FITTINGS, MEDIA, PERMEABLE/IMPERMEABLE GEOTEXTILES, AND ANCILLARY APPURTENANCES AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.

23. ANY DRAINAGE EASEMENTS SHALL BE PROVIDED AS INDICATED FOR THE PROPOSED DRAINAGE IMPROVEMENTS. ANY PROPOSED EASEMENT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER AND THE AGENCY HAVING JURISDICTION.

24. ANY WELLS DISCOVERED DURING EXCAVATION, EARTHMOVING, OR CONSTRUCTION MUST BE REPORTED TO THE JURISDICTIONAL ENVIRONMENTAL HEALTH DEPARTMENT WITHIN 24 HOURS OF DISCOVERY. ANY WELLS ON-SITE THAT WILL HAVE NO USE MUST BE PLUGGED AND ABANDONED BY A LICENSED WELL DRILLING CONTRACTOR IN AN APPROVED MANNER. ANY WELLS ON-SITE THAT REMAIN MUST BE PROTECTED DURING ALL STAGES OF EARTHMOVING AND CONSTRUCTION.

AS-BUILTS:

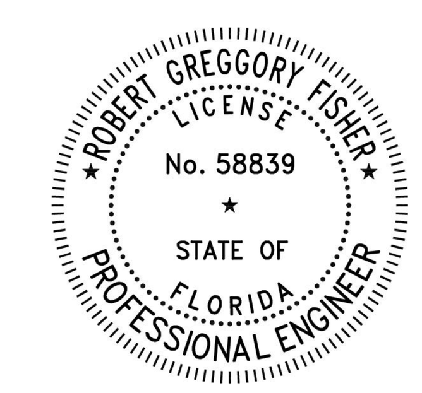
POTABLE WATER:

A. THE CONTRACTOR SHALL LOCATE VALVES, FITTINGS, SERVICES, LOCATOR BALLS, HYDRANTS, AIR RELEASE VALVES, ETC., BY USING A TWO (2) POINT SWING MEASUREMENT FROM PERMANENT PHYSICAL FEATURES THAT CAN READILY BE FOUND ON THE DRAWING AND IN THE FIELD. THESE MEASUREMENTS SHALL BE SHOWN ON THE "AS-BUILT" DRAWING BY THE CONTRACTOR AND PRESENTED TO THE ENGINEER AT EACH PAY ESTIMATE REQUEST FOR PERMANENT RECORDING.

SEWER FORCE MAIN:

A. THE CONTRACTOR SHALL LOCATE FORCE MAINS, VALVES, FITTINGS, AIR RELEASE VALVES, LOCATOR BALLS, ETC. BY USING A TWO (2) POINT SWING MEASUREMENT FROM PERMANENT PHYSICAL FEATURES THAT CAN READILY BE FOUND ON THE DRAWING AND IN THE FIELD. ALL SERVICE LATERALS WILL BE LOCATED BY STATION OFFSET BETWEEN MANHOLE RIMS.

B. THE CONTRACTOR SHALL FURNISH "AS-BUILT" TOP OF PIPE ELEVATIONS EVERY 500 FEET OF ALL FORCE MAINS AND AT ALL CHANGES IN GRADE AS REQUIRED BY THE LOCAL JURISDICTION UTILITY.



This item has been electronically signed and sealed by Robert G. Fisher, P.E. on 03/01/2021 using a ***SHA*** authentication code.

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FOR AGENCY REVIEW

Fisher Engineering
CIVIL ENGINEERING CONSULTANTS
1817 PINYON PINE DRIVE SARASOTA, FLORIDA 34240
CELL: 941-822-9731 OFFICE: 941-203-8565
EMAIL: gfisher@fisherengr.com WEB: fisherengr.com

GENERAL NOTES

SITE AND DEVELOPMENT PLANS

Island Village Montessori School

In accordance with 61G15-30.003 (5) F.A.C., these preliminary engineering documents are not in final form, but are being transmitted to the public agency to receive agency review, comments and interpretations. The documents may subsequently be reviewed by the Engineer to reflect resolution of issues with public agency prior to final action by the agency. Changes, revisions and modifications to a project may prompt additional document submittal for agency approval action on the same project.

Revisions:

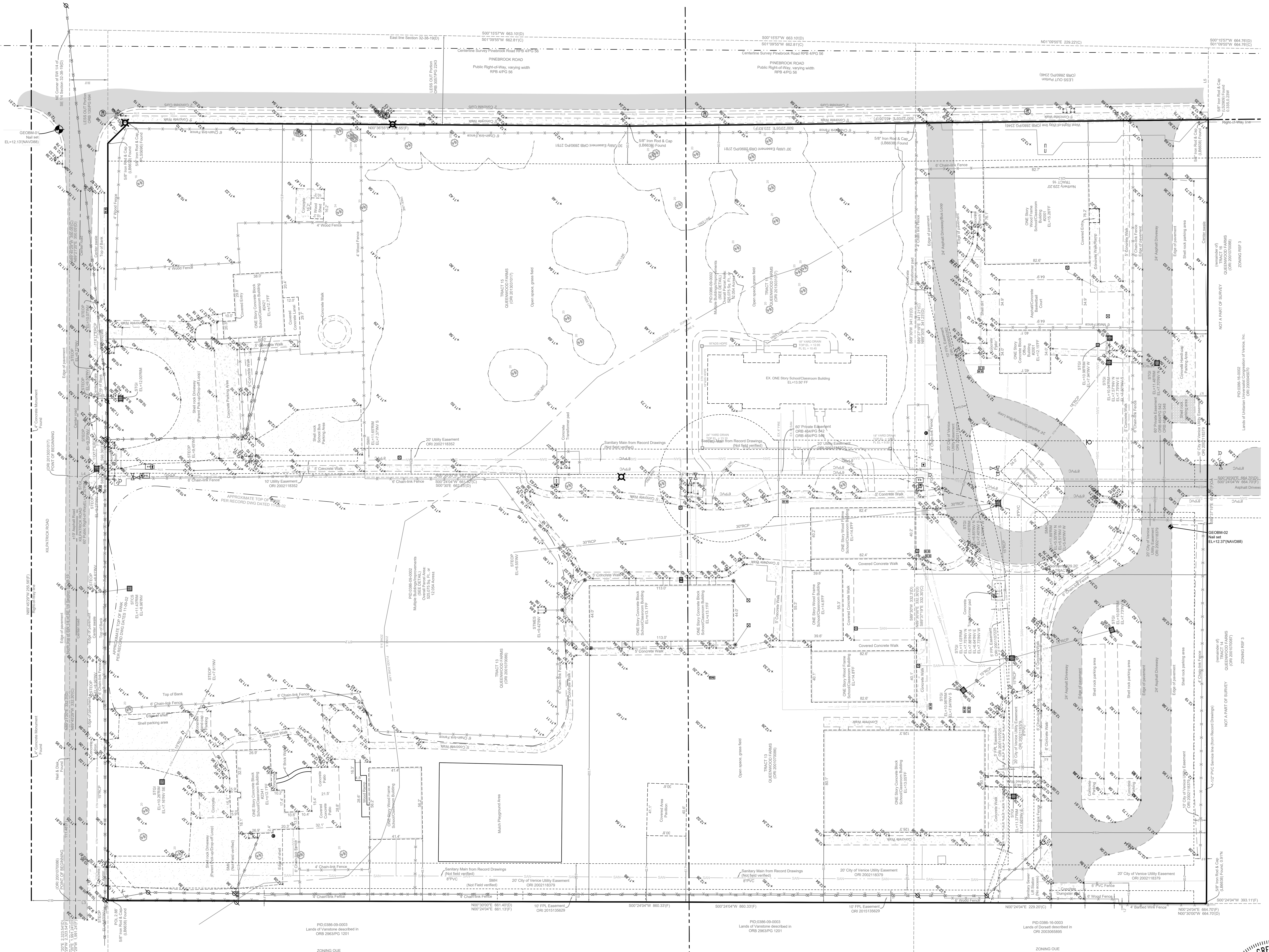
⚠1 2021/02/04 COMMENTS PER COV
2021/01/06 COMMENTS PER COV

ROBERT G. FISHER P.E.
FLA. LIC. NO. 58839
C.A. NO. 31696
DATE:

Date:	01-21-2021
Scale:	SHOWN
Drawn By:	MSP
Checked By:	RGF
Project #:	20-0006

SHEET C0.01

EXISTING CONDITIONS DATA AND ELEVATIONS
BASED ON SURVEY PROVIDE BY GEOSURV SURVEY
AND MAPPING DATED 03/07/2020



SURVEYOR'S REPORT

1. SURVEY TYPE: This map represents a Boundary and Topographic Survey (per Standards of Practice, 5J-17 F.A.C., per Ch. 472 F.S.), depicting visible, above ground, permanently fixed improvements, and surface spot elevations only. Ownership of fences and/or any other improvements shown hereon has not been determined as a part of this survey.

2. DESCRIPTION: The Parcel Description, as shown herein, has been provided by the Client.

3. COORDINATE & BEARING BASIS: Coordinates and/or Bearings shown hereon are based on Grid. Reference Florida State Plane Coordinate System, Zone West (FL-W), North American Datum of 1983 (NAD83), horizontal adjustment year 2011. Derived by redundant GPS RTK observation, using FDOT Virtual Real-time Network Solution. Reference line being the South line of Section 32, with a Bearing of N.89°37'20"W.

4. UTILITIES/UNDERGROUND LOCATIONS: Underground improvements and/or utilities, those including, but not limited to; foundations, stem-walls, septic tanks, drainfields, wells, conduits, irrigation, and/or other utilities, which are not visible above ground and therefore have not been included as a part of this survey, unless as shown hereon. Those shown herein are based on compiled record data, and do not purport to reflect all underground utilities and have not been field verified.

5. TITLE COMMITMENT: This map has been prepared without the benefit of a Commitment for Title Insurance, or Title Policy Opinion. The survey shown herein is subject to those exceptions, covenants, conditions and restrictions of record that a subsequent title search may disclose. There may or may not exist easements of record, or by claim, that affect the parcel shown hereon.

6. FLOOD ZONE: The parcel described herein appears situated in Flood Zone X and Zone X-S (Shaded), per FIRM 12115C0243F, Map Effective Date November 4, 2016 and per FIRM 12115C0331F, Map Effective Date November 4, 2016. Information shown herein is subject to topographic verification and has been scaled from said map. The Approximate Flood Zone Line is a horizontal extrapolation based on planametric features and graphic plotting and not hydraulic or topographic information, therefore it is only approximate.

7. Pinebrook Road Right-of-Way shown hereon as per Sarasota County Road Plat Book 4, Page 56, Public Records of Sarasota County, Florida. No other information regarding right-of-ways, either existing or proposed, has been provided to, nor pursued by the undersigned for the purpose of this survey.

8. ZONING REGULATIONS & SETBACKS: Information regarding Zoning and/or Setbacks have not been provided to, nor pursued by the undersigned Professional Land Surveyor, and therefore have not been included as a part of this survey.

9. HAZARDOUS SUBSTANCES NOTICE: There may or may not exist hazardous or harmful substances on or below the grounds surface, within the soil over and/or across the parcel as described herein, or a portion therefrom, Geosurv, LLC does not perform determination or identification of such hazardous, or potentially hazardous, substances and therefore have not been included as a part of this survey.

10. SURVEY LIMITATIONS: Boundary Surveys by no means represent a determination on whether properties will or will not flood. The land within the boundaries of this Boundary Survey may or may not be subject to flooding and or standing water.

11. SURVEY VALIDITY NOTICE: Not valid without the original signature and embossed seal of a Professional Land Surveyor. Reuse of this survey for any purpose other than intended, without written authorization of the undersigned Professional Land Surveyor, will be solely at the risk of the user without liability to the undersigned. Nothing herein shall be construed to give any rights or benefits to anyone other than those certified to.

12. Gross Parcel Area is 525,075 Square Feet, or 12.054 Acres±

13. All distances shown herein are U.S. Survey Feet, unless otherwise noted.

14. ELEVATION DATUM REFERENCE: Elevations shown hereon reference the North American Vertical Datum of 1988 (NAVD88).

15. JURISDICTIONAL LANDS: There may or may not exist other, if any, wetlands and/or environmentally protected lands over or across the parcel described herein, which have not been identified or delineated as a part of this survey.

16. PREVIOUS SURVEY REFERENCE: Reference made to previous survey prepared by Britt Surveying, Inc., LB6638, project number 16-06-19, dated 06/10/16.

LEGEND

- 5/8" Iron Rod & Cap (LB7731) Set
- Mail Box
- Bollard Post
- Water Meter
- Reuse Water Meter
- Irrigation Control Valve
- Fire Hydrant
- Gate Valve
- Bore Sample Location
- Gas Valve
- Well
- Septic Tank Lid
- Sanitary Sewer Manhole
- Storm Sewer Manhole
- Electric Manhole
- Unknown Manhole
- Wood Power Pole
- Concrete Power Pole
- Metal Power Pole
- Metal Light Pole
- Wood Light Pole
- Plastic Light Pole
- Concrete Light Pole
- Guy Wire Anchor
- Cross-walk Signal Post
- Wood Sign Post
- Metal Sign Post
- Electric Pull Box
- Electric Hand Hole
- Utility Riser
- Utility Cabinet
- Underdrain Cleanout
- Storm Grate Inlet
- Yard Drain
- Palm Tree
- Oak Tree
- Pine Tree
- Citrus Tree
- X.XX' Spot Elevation

(R)	Radial
(NR)	Non-Radial
CH	Chord Distance
A	Arc Distance
D	Delta
L	Line
C	Curve
OA	Overall
POC	
POB	Point of Beginning
STA	Station
OS	Offset
R	Right Offset
L	Left Offset
N:	Northing
E:	Easting
EL	Elevation
VVH	Verified Vertical Height
WIT	Witness Corner
REF	Reference Corner
BM	Benchmark
POL	Point on-line
PCP	
PRM	
S-T-R	Section, Township, Range
PID	
ORB	Official Records Book.
ORI	
PG	Page.
FB	Field Book.
PB	Plat Book.
DB	Deed Book.
CCR	Certified Corner Record
NGS	
FDEP	
FDOT	Dept. of Transportation
FIRM	
BFE	Base Flood Elevation
NGVD	
NAVD	
NAD	North American Datum
LS	Licensed Surveyor
LB	Licensed Business.
PLS	
RLS	
PSM	
FAC	
MTS	
A/C	Air Conditioner
BFP	Backflow Preventer
ARV	Air Release Valve
TOP	Top of Pipe
RIM	Top of Casing Rim
NUT	Top of Valve Nut
LID	Top of Box Lid
TN	Top of Hydrant Nut
STZ	Hydrant Storz Valve
MES	Mitered End Section
EOP	End of Pipe
INV	Invert
WW	Wet Well
VV	Valve Vault
GAS	Gas Main
STM	Storm Drain
SAN	Sanitary Main
SFM	Sanitary Force Main
RUW	Reuse Water Main
IRR	Irrigation Line
W	Water Main
FS	Fire Service
FDC	
UGE	Underground Electric
UGT	Underground Telephone
UGTV	Underground Television
OE	Overhead Electric
RCP	
ERCP	
CMP	Corrugated Metal Pipe
CPP	Corrugated Plastic Pipe
PVC	Polyvinyl Chloride
HDPE	
VCP	Vitrified Clay Pipe
UNK	Unkown
(R)	Radial
(NR)	Non-Radial
(D)	Deed Measurement.
(P)	Plat Measurement.
(F)	Field Measurement.
(C)	Calculated.
CB	Chord Bearing

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ROBERT GREGGORY FISHER
LICENSE
No. 58839
STATE OF FLORIDA
PROFESSIONAL ENGINEER

This item has been electronically signed and sealed by Robert G. Fisher, P.E. on 03/01/2021 using a ***SHA*** authentication code.

Printed copies of this document are not considered signed and sealed and the ***SHA*** authentication code must be verified on any electronic copies.

FOR AGENCY REVIEW

GEOBM-01
Nail set
EL=12.13' (NAVD88)

GEOBM-02
Nail set
EL=12.37' (NAVD88)

Scale: 1" = 40

40 10 0 40

Fisher Engineering

CIVIL ENGINEERING CONSULTANTS

1817 PINYON PINE DRIVE SARASOTA, FLORIDA 34240
CELL: 941-822-9731 OFFICE: 941-203-8565
EMAIL: gfisher@fisherengr.com WEB: fisherengr.com

EXISTING CONDITIONS

SITE AND DEVELOPMENT PLANS

Island Village Montessori School

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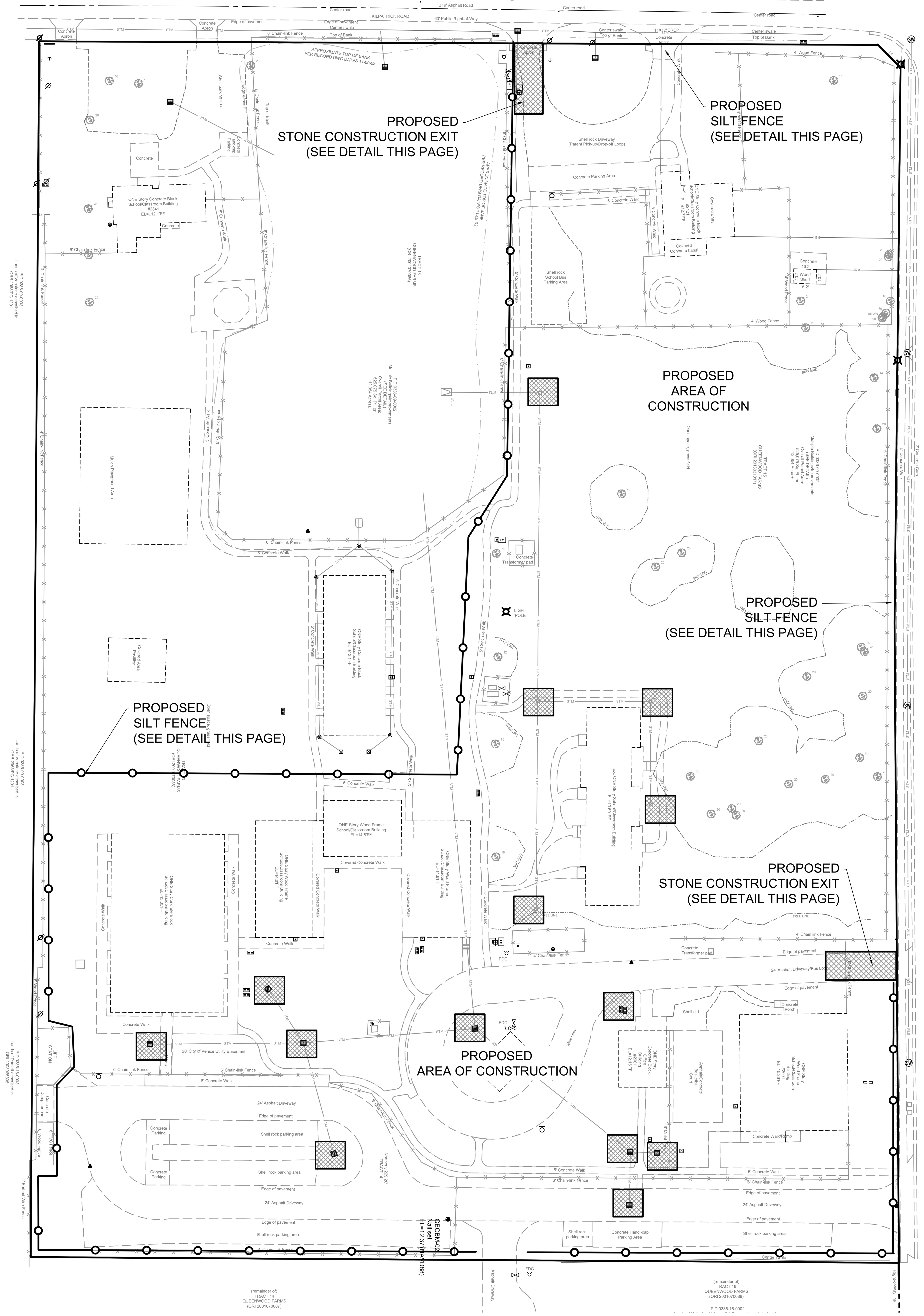
Revisions:

2021/02/04 COMMENTS PER COV
2021/01/06 COMMENTS PER COV

ROBERT G. FISHER P.E.
FLA. LIC. NO. 58839
C.A. NO. 31696
DATE:

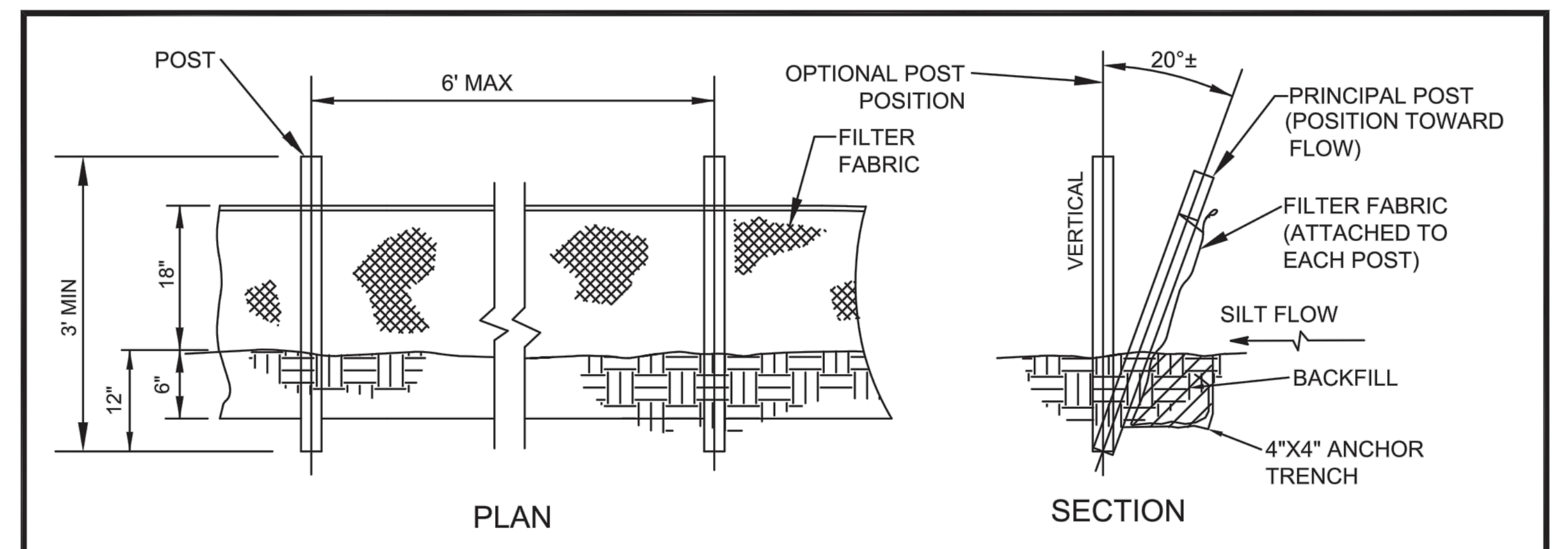
Date:	01-21-2021
Scale:	SHOWN
Drawn By:	MSP
Checked By:	RGF
Project #:	20-0006

SHEET C0.02



BEST MANAGEMENT PRACTICES GUIDELINES

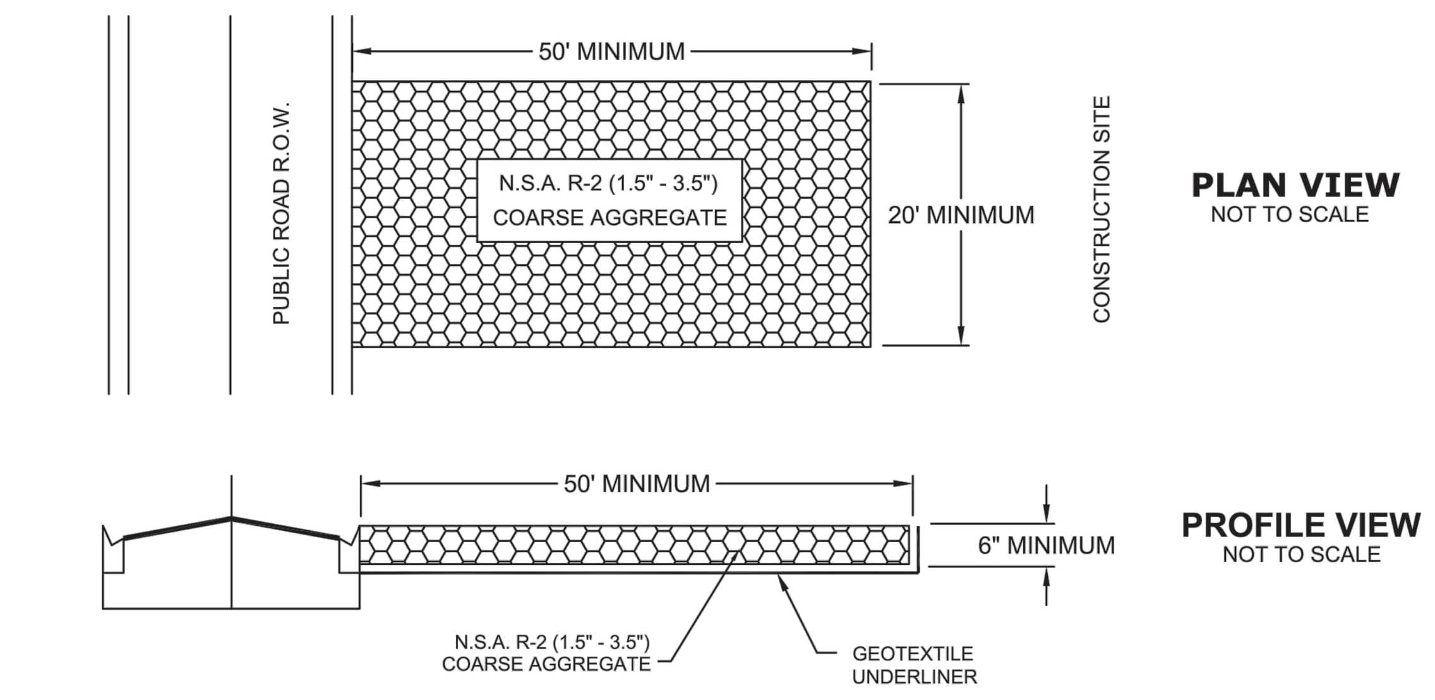
1. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS DURING CONSTRUCTION TO CONTROL EROSION AND PREVENT THE TRANSPORT OF SEDIMENT TO SURFACE, STORM DRAINS AND/OR ADJACENT PROPERTIES. SILT SCREENS, HAY BALES AND/OR FILTER FABRIC, OR OTHER APPROVED MEANS, SHALL BE EMPLOYED. SODDING AND/OR SEEDING SHALL BE ACCOMPLISHED AS SOON AS PRACTICAL AFTER EXCAVATION AND GRADING IS COMPLETE.
2. BEST MANAGEMENT PRACTICES DEVICES SHALL BE USED TO ADDRESS EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH LOCAL JURISDICTION EROSION AND SILTATION CONTROL REQUIREMENTS.
3. THE PLAN INDICATES TYPICAL BEST MANAGEMENT PRACTICES DEVICE LOCATIONS. REFER TO BMP DETAILS FOR CORRECT PLACEMENT. BMPS SHALL BE PROVIDED FOR ALL EXISTING AND INTERIM DRAINAGE STRUCTURES DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL NECESSARY BMP DEVICES THROUGHOUT THE DURATION OF CONSTRUCTION OR AS INSTRUCTED BY THE ENGINEER.
5. ALL GRASSING BY SOD SHALL BE INSTALLED AS SOON AS PRACTICAL UPON THE COMPLETION OF FINAL GRADING OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL GRASSING IN A HEALTHY GROWING ENVIRONMENT UNTIL FINAL ACCEPTANCE AND CERTIFICATION.
6. THE CONTRACTOR, SHALL BE RESPONSIBLE TO SAFELY STORE EQUIPMENT, FUEL, OIL AND OTHER HAZARDOUS SUBSTANCES FROM CONTAMINATING THE STORM WATER MANAGEMENT AND COLLECTION SYSTEMS AND PRESERVATION AREAS.
7. THE CONTRACTOR SHALL ENSURE THAT ADJACENT PROPERTIES ARE NOT IMPACTED BY WIND EROSION OR EMISSIONS OF UNCONFINED PARTICULATE MATTER IN ACCORDANCE WITH RULE 2-296.320(4)(c)1., FLORIDA ADMINISTRATIVE CODE, FROM THE CONSTRUCTION SITE DURING ALL PHASES OF CONSTRUCTION BY USE OF WATER TRUCKS, WIND FENCING, OR OTHER APPROVED DEVICES.
8. ALL REQUIRED TREE PROTECTION BARRICADES SHALL MEET THE STANDARDS OF THE GOVERNING MUNICIPALITY AND ANY APPLICABLE TREE PROTECTION ORDINANCES.
9. PRIOR TO DEVELOPMENT-RELATED LAND CLEARING ACTIVITIES, ALL APPLICABLE MUNICIPAL APPROVALS MUST BE OBTAINED. IF BURNING OF TREES AND/OR BRANCHES IS REQUIRED FOR LAND CLEARING, A BURN PERMIT MUST BE FIRST OBTAINED.
10. EROSION/SEDIMENT CONTROL BMP DEVICES IN ADDITION TO THOSE PRESENTED ON THE PLANS SHALL BE IMPLEMENTED AS NECESSARY TO PREVENT TURBID DISCHARGES FROM FLOWING ONTO ADJACENT PROPERTY OR ROADWAYS. CONTROLS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED AS REQUIRED BY THE ENGINEER AND/OR CONTRACTOR TO ENSURE SURFACE WATER QUALITY CONDITIONS ARE IN COMPLIANCE WITH STATE WATER QUALITY STANDARDS AND THE GOVERNING MUNICIPALITY.
11. THE CONTRACTOR SHALL REPORT ALL OFFSITE SURFACE WATER DISCHARGES WITH TURBIDITY IN EXCESS OF 29 NTUS (NEPHELOMETRIC TURBIDITY UNITS) ABOVE BACKGROUND LEVEL TO WATER RESOURCES WITHIN 24 HOURS AFTER OCCURRENCE. NOTIFICATION SHALL INCLUDE CAUSE OF THE PROBLEM, CORRECTIVE ACTIONS TAKEN, AND INSTALLATION OF ADDITIONAL EROSION/SEDIMENT CONTROLS NOT SHOWN ON THE APPROVED CONSTRUCTION PLAN DRAWINGS.
12. FUEL OR OTHER PETROLEUM PRODUCT SPILLS IN EXCESS OF 25 GALLONS AND GENERATED FROM CONSTRUCTION OPERATIONS, OR THOSE THAT ENTER STORM WATER DRAINAGE WAYS OR WATER BODIES, SHALL BE CONTAINED, CLEANED UP AND REPORTED IMMEDIATELY. SMALLER SURFACE SPILLS SHALL BE CLEANED UP AS SOON AS PRACTICAL, IN ACCORDANCE WITH APPROVED INDUSTRY STANDARDS.
13. THE CONTRACTOR SHALL PROVIDE ANY NECESSARY DEWATERING FOR THE DURATION OF THE PROJECT'S CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE A COPY OF THE DEWATERING PLAN TO THE JURISDICTIONAL AGENCY.
14. CONTRACTOR SHALL CONTROL OFF-SITE SOIL TRACKING INCLUDING MATERIAL SPILLAGE OR SOIL TRACKING ONTO PUBLIC ROADS. THIS IS TO BE ACCOMPLISHED BY MANUAL REMOVAL AS NECESSARY, AND BY SOIL TRACKING PREVENTION TECHNIQUES IN ACCORDANCE WITH FDOT STANDARDS INDEX 106.
15. NOTE TO SILT FENCE INSTALLER: TO FACILITATE “EFFECTIVE” PRESERVATION OF TREES (THOSE WITH DRIP LINES DEPICTED ON PLAN) SILT FENCE SHALL NOT BE TRENCHED IN WITHIN DRIP LINES OF TREES WHERE AVOIDABLE. IF UNAVOIDABLE THEN INSTALL SILT FENCE AT GRADE (NO TRENCHING) IN THESE LOCATIONS.
16. PLACE WEATHER RESISTANT SIGN AROUND TREE BARRIER WITH 6" MINIMUM TEXT HEIGHT AND PROVIDE TEXT IN ENGLISH AND SPANISH. SIGN SHALL READ "KEEP OUT- TREE PROTECTION AREA" .



1.) POSTS SHALL BE WOOD (2"X4" OR 2 ½" DIA.) OR STEEL (MIN. 1.33 LBS/FT.).
2.) SILT FENCE SHALL BE PLACED PRIOR TO ANY EARTHMOVING, EXCAVATION OR VEGETATION REMOVAL.
3.) CONTRACTOR IS RESPONSIBLE FOR MONITORING & MAINTAINING THE SILT FENCE IN GOOD CONDITION THROUGHOUT THE LIFE OF THE PROJECT.
4.) THE CITY ENGINEER OR HIS DESIGNEE MAY ISSUE A STOP WORK ORDER IN THE EVENT THAT SILT FENCE IS NOT BEING MAINTAINED OR IF SEDIMENT IS MIGRATING OFF-SITE.

SILT FENCE DETAIL

N.T.S.



CRUSHED STONE CONSTRUCTION EXIT DETAIL

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	ENGINEERING SILT FENCE & CONSTRUCTION EXIT	DATE FEB. 2019 SHEET NO. ENG-7

NOTE: SEE LANDSCAPE PLAN FOR TREE PROTECTION.

This item has been electronically signed and sealed by Robert G. Fisher, P.E. on 03/01/2021 using a ***SHA*** authentication code.

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ROBERT GREGGORY FISHER ★ LICENSE No. 58839 ★ STATE OF FLORIDA PROFESSIONAL ENGINEER

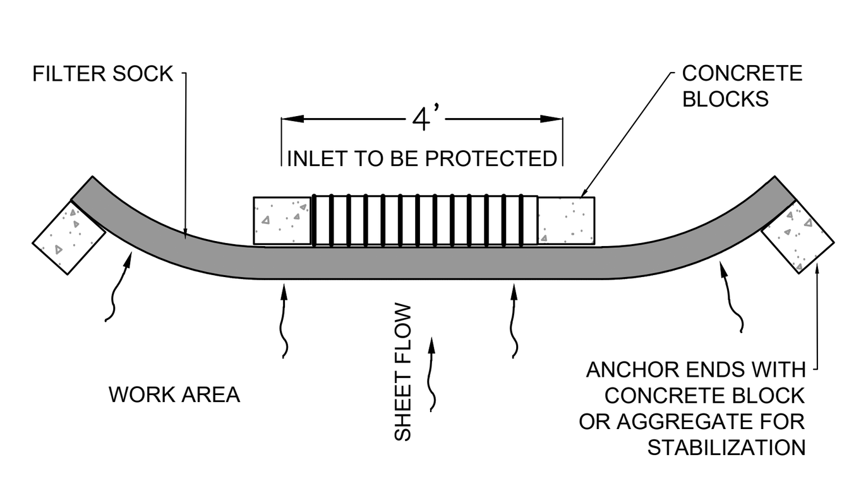
FOR AGENCY REVIEW

LEGEND

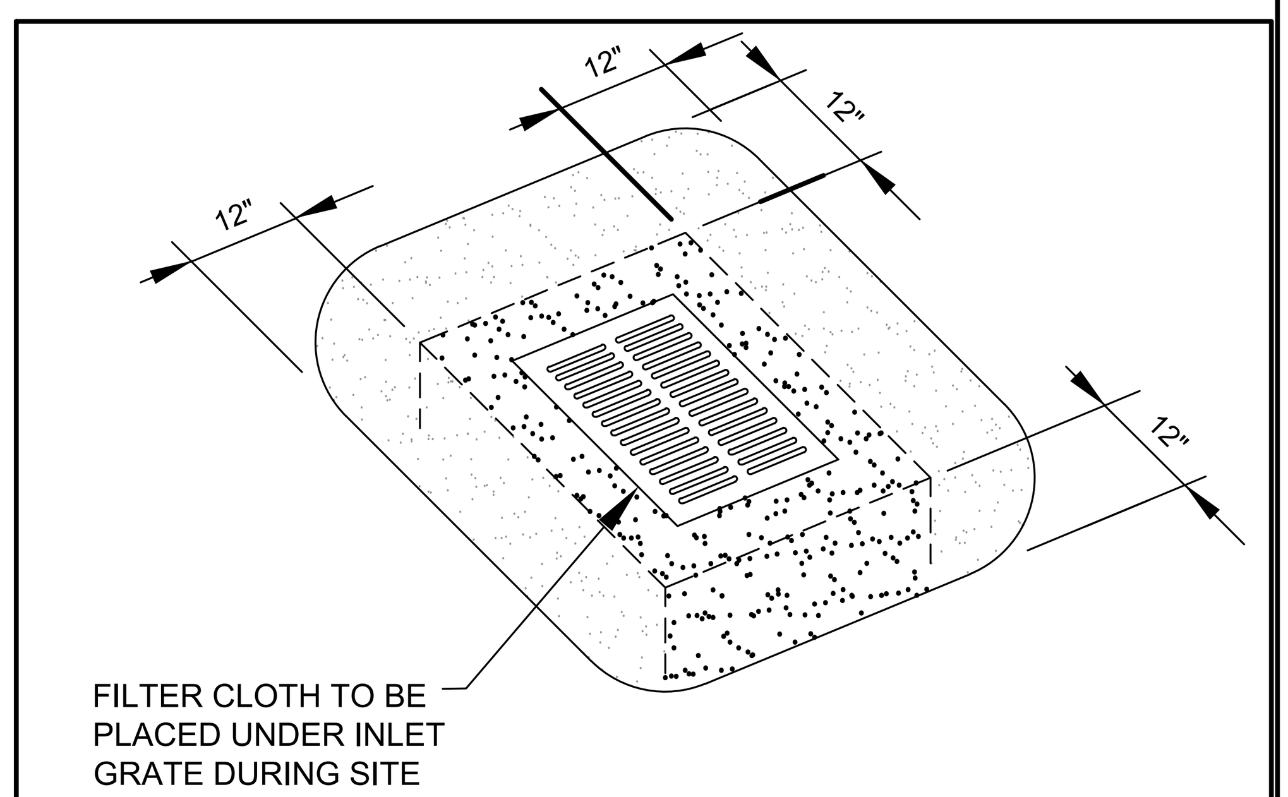
- INLET PROTECTION
- SILT FENCE
- SOCK FILTER
- TREE PROTECTION BARRICADE

Scale: 1" = 50

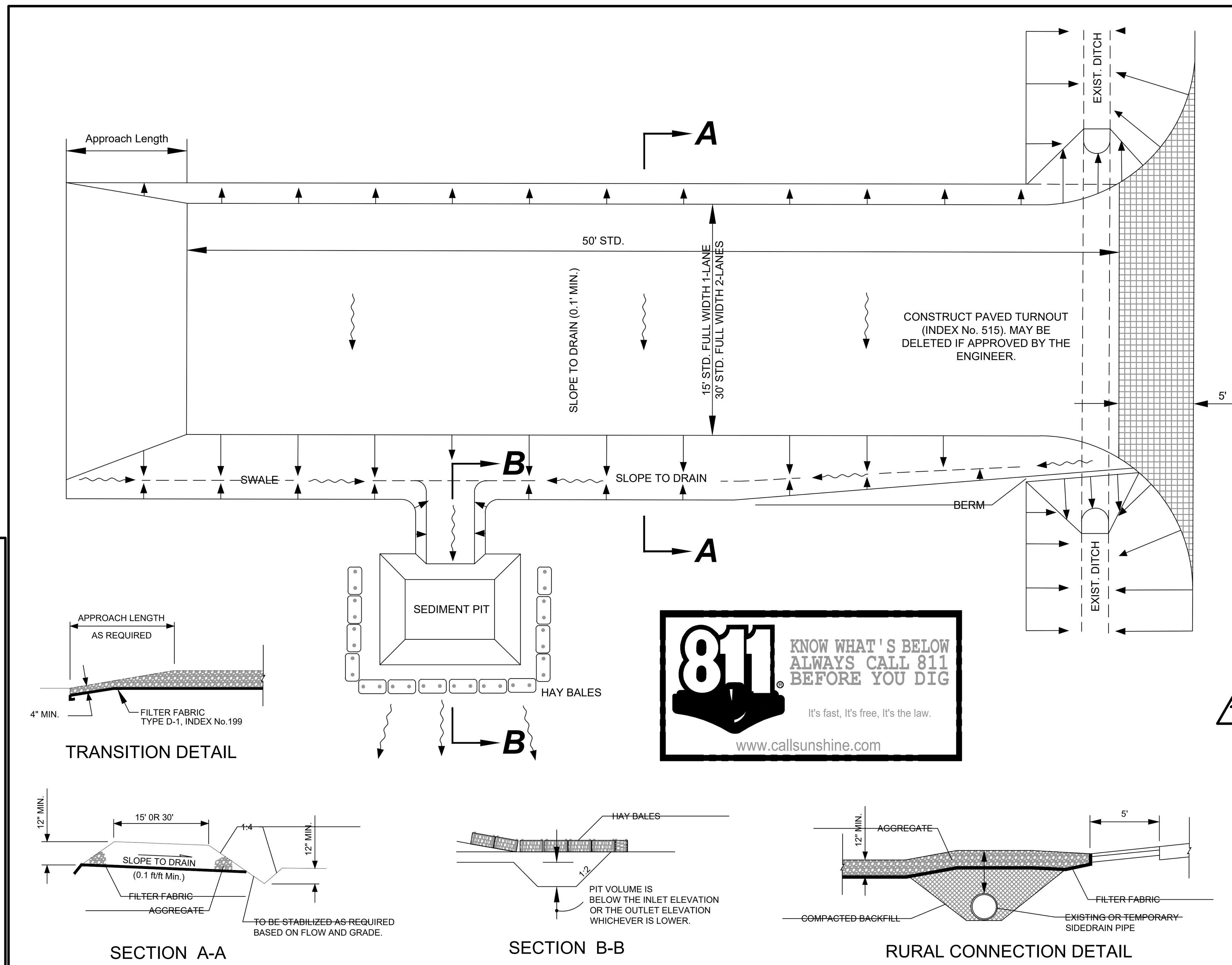
50 0 50



SOCK FILTER
NTS



INLET PROTECTION
NTS



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NTS

Fisher Engineering
CIVIL ENGINEERING CONSULTANTS
1817 PINYON PINE DRIVE SARASOTA, FLORIDA 34240
CELL: 941-822-9731 OFFICE: 941-203-8565
EMAIL: gfisher@fisherengr.com WEB: fisherengr.com

EROSION CONTROL PLAN

SITE AND DEVELOPMENT PLANS

Island Village Montessori School

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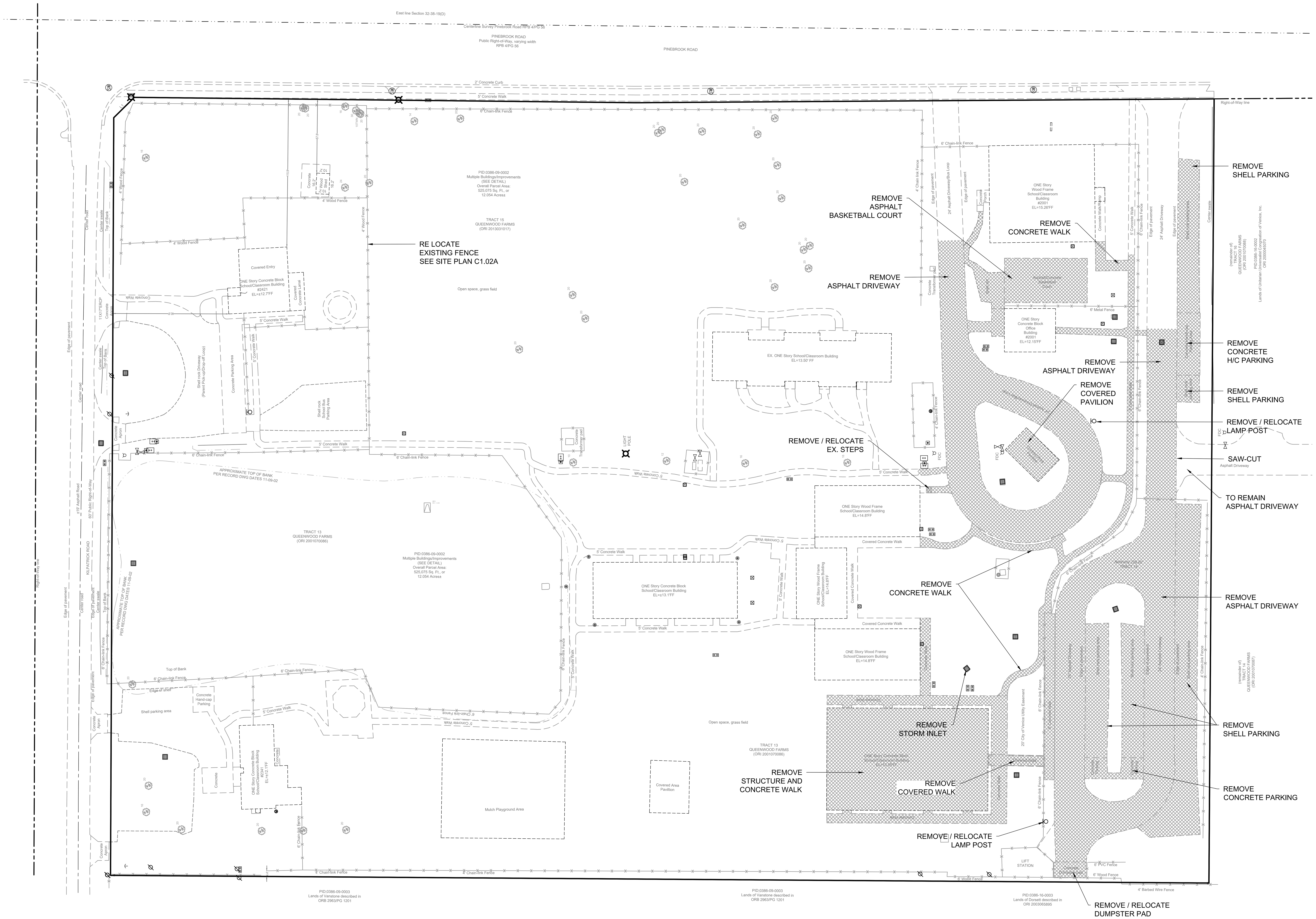
Revisions:

2021/02/04 COMMENTS PER COV
2021/01/06 COMMENTS PER COV

ROBERT G. FISHER P.E.
FLA. LIC. NO. 58839
C.A. NO. 31696
DATE:

Date:	01-21-2021
Scale:	SHOWN
Drawn By:	MSP
Checked By:	RGF
Project #:	20-0006

SHEET C1.00



IMPACTS TO STATE AND FEDERALLY PROTECTED SPECIES AS LISTED IN THE MOST CURRENT VERSION OF "FLORIDA's ENDANGERED SPECIES, THREATENED SPECIES AND SPECIES OF SPECIAL CONCERN: OFFICIAL LISTS" PREPARED BY THE FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC) ARE NOT AUTHORIZED BY THIS PERMIT. THESE SPECIES MAY INCLUDE, BUT ARE NOT LIMITED TO, FLORIDA SCRUB JAY, AMERICAN BALD EAGLE, SHERMAN's FOX SQUIRREL, BURROWING OWL, GOPHER TORTOISE, GOPHER FROG, AND EASTERN INDIGO SNAKE. PROTECTION EXTENDES TO THE NESTS, BURROWS AND HABITAT UTILIZED BY THESE SPECIES. IF A LISTED SPECIES (OR ITS EVIDENCE, SUCH AS BURROWS, NESTS, SCAT, TRACKS) THAT WAS NOT ADDRESSED IN THIS PERMIT IS OBSERVED PRIOR TO OR DURING CONSTRUCTION, ALL CLEARING AND EARTHMOVING ON-SITE SHALL CEASE. THE PERMITTEE SHALL CONSULT WITH THE FWC REGIONAL OFFICE AND/OR THE U.S. FISH AND WILDLIFE SERVICE REGIONAL OFFICE REGARDING NECESSARY PROTECTION MEASURES AND PROVIDE EVIDENCE OF SUCH CONSULTATION TO RESOURCE PROTECTION SERVICES PRIOR TO RESUMING WORK.

IF ANY TYPE "A" FILL (CLEAN EARTHEN MATERIAL) IS TO BE HAULED OFF-SITE, AN EARTHMOVING PERMIT OR LETTER OF EXPLANATION IS REQUIRED FROM RESOURCE PROTECTION SERVICES. IF ANY TYPE "A" FILL HAULED OFF-SITE IS TO BE STOCKPILED OR FILLED UPON PRIVATE PROPERTIES WITHIN THE UNINCORPORATED AREAS OF SARASOTA COUNTY, THE RECEIVING PROPERTY(s) SHALL POSSESS AUTHORIZATION IN THE FORM OF AN EARTHMOVING PERMIT, A WRITTEN EARTHMOVING EXEMPTION, A BUILDING PERMIT, OR CONSTRUCTION PLAN APPROVAL PRIOR TO RECEIVING SAID FILL. NO TYPE "B" (CONCRETE, BROKEN ASPHALT, ROCKS), TYPE "C" (VEGETATIVE LAND CLEARING DEBRIS), TYPE "D" (GARBAGE, REFUSE, WOOD, METAL, PLASTIC, ETC.) FILL MAY BE BURIED WITHIN OR OUTSIDE APPROVED CONSTRUCTION LIMITS. TYPE "D" FILL MUST BE DISPOSED AT AN APPROVED LANDFILL OR RECYCLING FACILITY. TYPE "B", "C", AND "D" FILLS GENERATED ON-SITE SHALL NOT BE STOCKPILED ON-SITE FOR GREATER THAN SIX MONTHS. TYPE "B", "C", AND "D" FILLS SHALL NOT BE HAULED TO THE SITE FROM OFF-SITE SOURCES. FOR INFROMATION ABOUT EARTHMOVING PERMITS OR EXEMPTIONS, CONTACT ENVIRONMENTAL PERMITTING AT 941-861-5000. IF FILL MATERIAL IS TO BE STOCKPILED WITHIN THE APPROVED CONSTRUCTION LIMITS, THE PROJECT ENGINEER MUST PROVIDE DETAILED DRAWINGS TO LAND DEVELOPMENT SERVICES FOR REVIEW AND APPROVAL.

A DEMOLITION PERMIT IS REQUIRED FOR EXISTING BUILDING TO BE DEMOLISHED.

EXISTING IMPERVIOUS REMOVED

STRUCTURE COVERED	11,338.04SF
CONCRETE	11,284.12SF
SHELL	12,223.58SF
ASPHALT	30,195.69SF
TOTAL	65,041.43SF

FOR AGENCY REVIEW

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ROBERT GREGGORY FISHER
LICENSE
No. 58839
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

LEGEND

DENOTES STRUCTURE AND PAVEMENT REMOVAL

Scale: 1" = 40

40 0 40

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DEMOLITION PLAN

SITE AND DEVELOPMENT PLANS

Island Village Montessori School

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2021/01/06 COMMENTS PER COV

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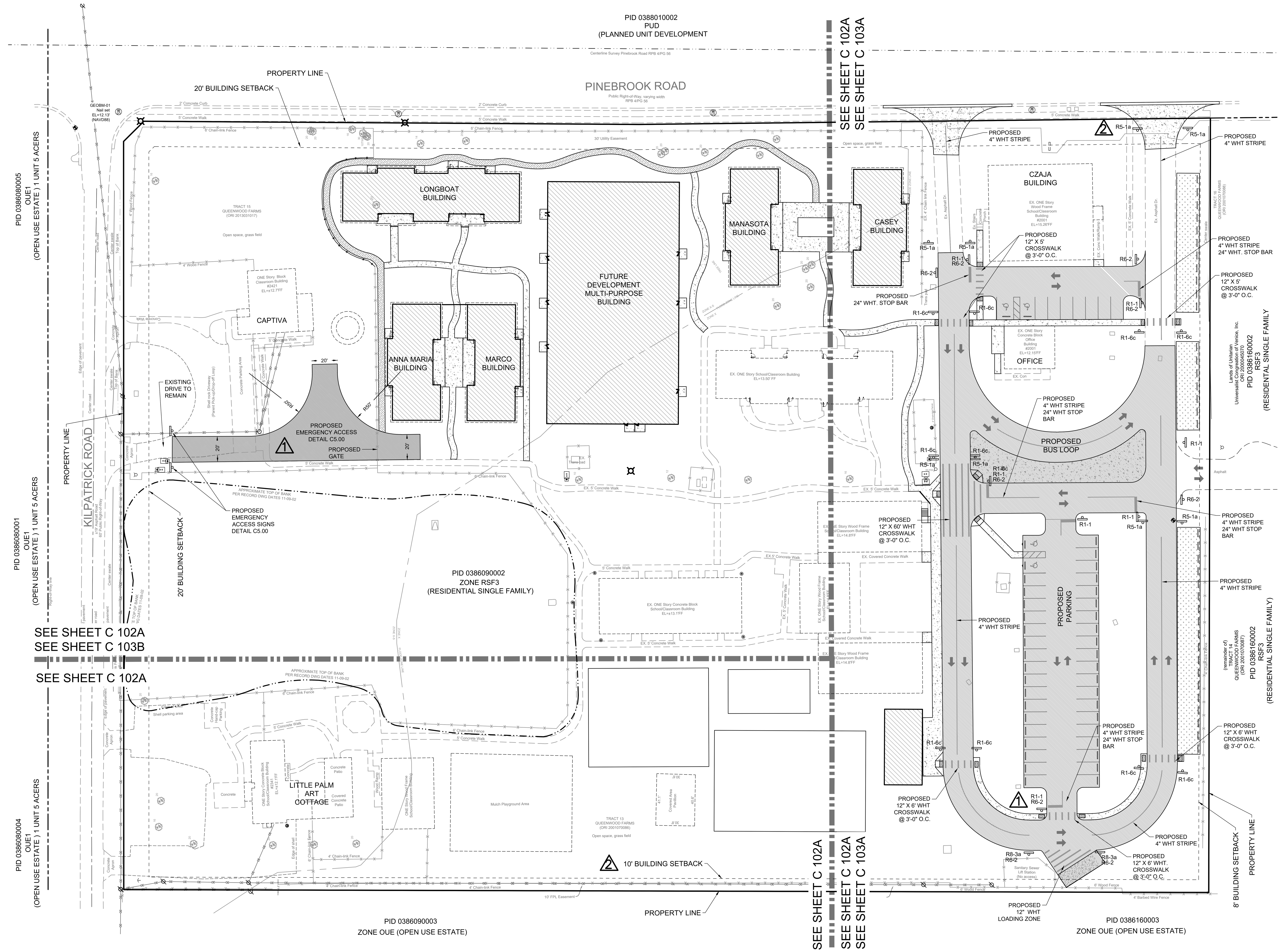

SITE DATA TABLE

TOTAL AREA: 525,075 SF = 12.05 AC
ZONING: RSF-3
PROPOSED USE: SCHOOL

PROPOSED IMPERVIOUS ADDED

STRUCTURE COVERED	44,093.00SF
CONCRETE	20,367.27SF
ASPHALT	53,938.65SF
TOTAL	118,398.92SF

SETBACK REQUIREMENTS	MIN. REQUIRED	PROPOSED
FRONT (PINEBROOK)	20 FT	180.6 FT
FRONT (KILPATRICK)	20 FT	468.3 FT
SIDE (SOUTH)	8 FT	250.0 FT
SIDE (WEST)	10 FT	384.6 FT
MAX BUILDING HEIGHT	35 FT	<35 FT

SOLID WASTE:
DUMPSTER ON SITE FOR CITY OF VENICE COLLECTION.

PARKING:

PROPOSED PARKING ONSITE:

ASPHALT = 48
GRASS REINFORCED = 36
H/C = 4

CROSS ACCESS AGREEMENT PARKING:

CROSS ACCESS STANDARD PARKING = 44
CROSS ACCESS HANDICAP PARKING = 4

TOTAL PARKING = 136

APPROVED PARKING CALCULATIONS FOR PREVIOUS DEVELOPMENT PLAN PETITION NO. 19-48SP

EXISTING PARKING

18 ELEMENTARY AND JUNIOR HIGH CLASSROOMS X 2 EA = 36 SPACES
1 HIGH SCHOOL CLASSROOM X 5 EA = 5 SPACES
2 OFFICE ROOMS X 2 EA = 4 SPACES
TOTAL EXISTING: 45 SPACES

PROPOSED PARKING

MULTI-PURPOSE SEATING 164/3 = 55 SPACES
4 OFFICE ROOMS X 2 EA = 8 SPACES
TOTAL PROPOSED SPACES = 63
45 EXISTING + 63 SPACES = **108 SPACES REQUIRED**

PARKING PROVIDED

STANDARD SPACES (10'x18') = 68 SPACES
HANDICAP SPACES (12'x18') = 5 SPACES
CROSS ACCESS & PARKING AGREEMENT
STANDARD SPACES = 44 SPACES
HANDICAP SPACES = 4 SPACES
TOTAL PARKING PROVIDE = 117 SPACES

ALL PARKING SPACES PROVIDED ARE EXISTING. IT IS NOT NECESSARY TO CONSTRUCT NEW PARKING SPACES TO MEET THE CODE REQUIREMENT.

MAXIMUM STUDENT POPULATION:

Lower EL K,1,2 = 126 students
Upper EL 3,4 = 210 students
Grade 5,6 = 120 students
Grade 7,8 = 154 students

Total = 610 students

LEGEND

- DENOTES ASPHALT PAVEMENT
- DENOTES CONCRETE
- DENOTES STRUCTURE
- GRASS RE-ENFORCED PARKING
- DENOTES DETECTABLE WARNING
- TRAFFIC CIRCULATION (NOT PAINTED)
- R1-6c DENOTES TRAFFIC SIGN AND TYPE

R5-1a (DO NOT ENTER)
R6-2 (ONE WAY)
R1-1 (STOP)
R8-3a (NO PARKING)
R1-6c

1. A Tree Permit will be required prior to any construction, native vegetative removal within the dripline of a tree, and/or tree removal.

2. All Grand Trees will be protected and indicated on the site plan. All identified Grand Trees in the Master Landscape Plans and/or by the Tree Code Administrator will need barricades at the dripline and site management that complies with Best Management Practices. These can be found in Section 54 - 588 (2).

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ROBERT GREGORY FISHER LICENSE No. 58839 STATE OF FLORIDA PROFESSIONAL ENGINEER

FOR AGENCY REVIEW

Scale: 1" = 40

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SITE KEY / PAVEMENT MARKING PLAN

SITE AND DEVELOPMENT PLANS

Island Village Montessori School

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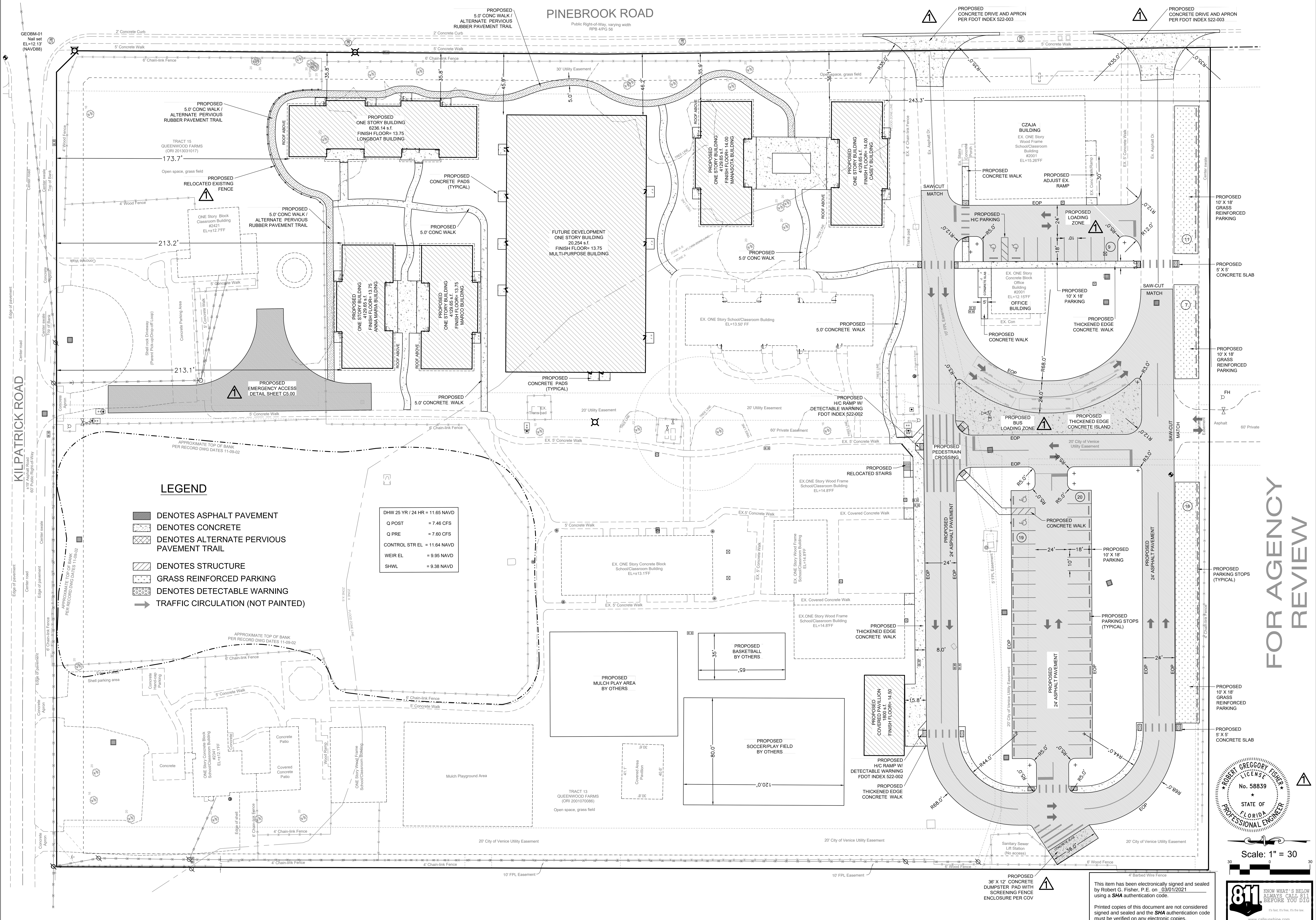
SHEET C1.02



LEGEND

- DENOTES ASPHALT PAVEMENT
- DENOTES CONCRETE
- DENOTES ALTERNATE PERVIOUS PAVEMENT TRAIL
- DENOTES STRUCTURE
- GRASS REINFORCED PARKING
- DENOTES DETECTABLE WARNING
- TRAFFIC CIRCULATION (NOT PAINTED)

DHW 25 YR / 24 HR = 11.65 NAVD	
Q POST	= 7.46 CFS
Q PRE	= 7.60 CFS
CONTROL STR EL	= 11.64 NAVD
WEIR EL	= 9.95 NAVD
SHWL	= 9.38 NAVD

Scale: 1" = 30

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SITE PLAN

SITE AND DEVELOPMENT PLANS

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SHEETC1.02A

STORMWATER GENERAL NOTE (CITY OF VENICE)

1) ALL STORMWATER STRUCTURES SHALL BE BEDDED ON 6" MIN. COMPACTED GRAVEL OR CRUSHED STONE.
2) STORMWATER PIPES INSTALLED BELOW THE WATER TABLE, WITHIN WET CONDITIONS WILL REQUIRE 6" MIN. COMPACTED GRAVEL OR CRUSHED STONE BEDDING.
3) ALL STORMWATER PIPES AND STRUCTURES WITHIN PUBLIC TRAFFICABLE AREAS SHALL BE REINFORCED CONCRETE UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
4) STORMWATER PIPES WITHIN PRIVATE PROPERTY MAY BE SMOOTH WALLED HDPE OR A-2000 PVC WITH WATERTIGHT CONNECTIONS AND SUFFICIENT COVER AS CALCULATED BY THE EOR. ROOF DRAINAGE PIPE MAY BE C900 DR-25 PVC WHITE COLOR OR BLUE COLOR WITH WHITE TAPE.
5) NO LIFTING HOLES OR OTHER SIMILAR PENETRATIONS OF STORMWATER PIPING PERMITTED. ALL PIPING JOINTS SHALL BE WRAPPED WITH A MIRAFI FILTER FABRIC OR EQUAL.
6) ALL PIPE JOINTS WILL BE GASKETED ACCORDING TO THE MANUFACTURER, FDOT AND ASTM STANDARDS TO PROVIDE A LEAK PROOF CONNECTION
7) ALL PRE-CAST STRUCTURES SHALL MEET FDOT AND ASTM C-478 STANDARDS.
8) INLET GRATINGS IN AREAS ACCESSIBLE TO BICYCLE OR TO PEDESTRIAN USE MUST BE RETICULINE OR OF SIMILAR MANUFACTURE.
9) INLET GRATINGS IN CORROSIVE AREAS SHALL BE GALVANIZED.
10) STORMWATER INLETS SHOULD BE DESIGNED TO REJECT DEBRIS, TRASH, AND OTHER POLLUTANTS FROM ENTERING INTO PUBLIC STORMWATER CONVEYANCES.
11) OUTFALLS INTO THE SURFACE WATERS SHOULD BE DESIGNED WITH DEVICES TO REDUCE THE DISCHARGE OF FOREIGN MATERIALS.

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ELEVATION DATUM REFERENCE:

ELEVATION SHOWN HEREON REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

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EXISTING LEGEND

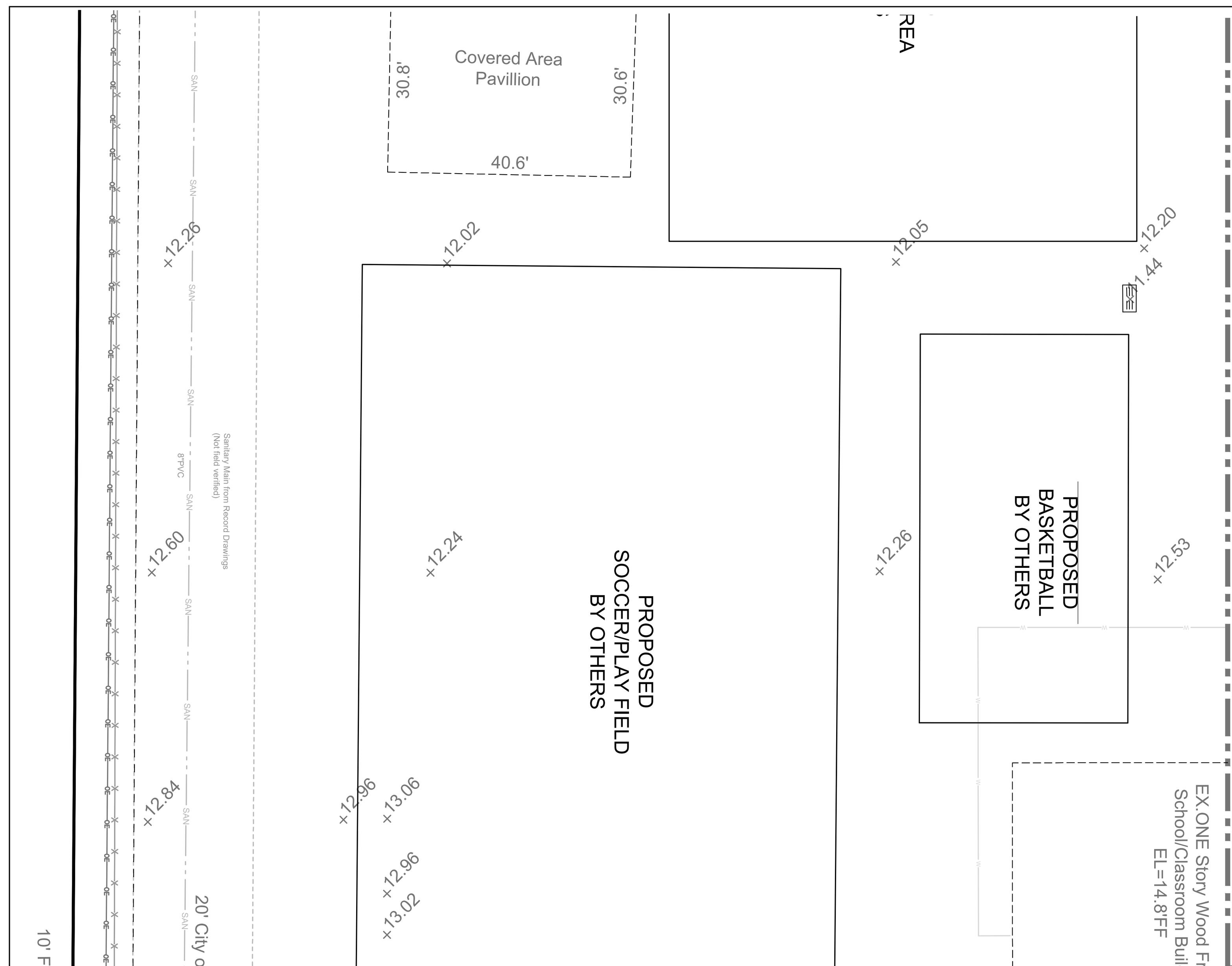
- 5/8" Iron Rod & Cap (LB7731) Set
- Mail Box
- Bollard Post
- Water Meter
- Reuse Water Meter
- Irrigation Control Valve
- Fire Hydrant
- Gate Valve
- Bore Sample Location
- Gas Valve
- Well
- Septic Tank Lid
- Sanitary Sewer Manhole
- Storm Sewer Manhole
- Electric Manhole
- Unknown Manhole
- Wood Power Pole
- Concrete Power Pole
- Metal Power Pole
- Metal Light Pole
- Wood Light Pole
- Plastic Light Pole
- Concrete Light Pole
- Guy Wire Anchor
- Cross-walk Signal Post
- Wood Sign Post
- Metal Sign Post
- Electric Pull Box
- Electric Hand Hole
- Utility Riser
- Utility Cabinet
- Underdrain Cleanout
- Storm Grate Inlet
- Yard Drain
- Palm Tree
- Oak Tree
- Pine Tree
- Citrus Tree

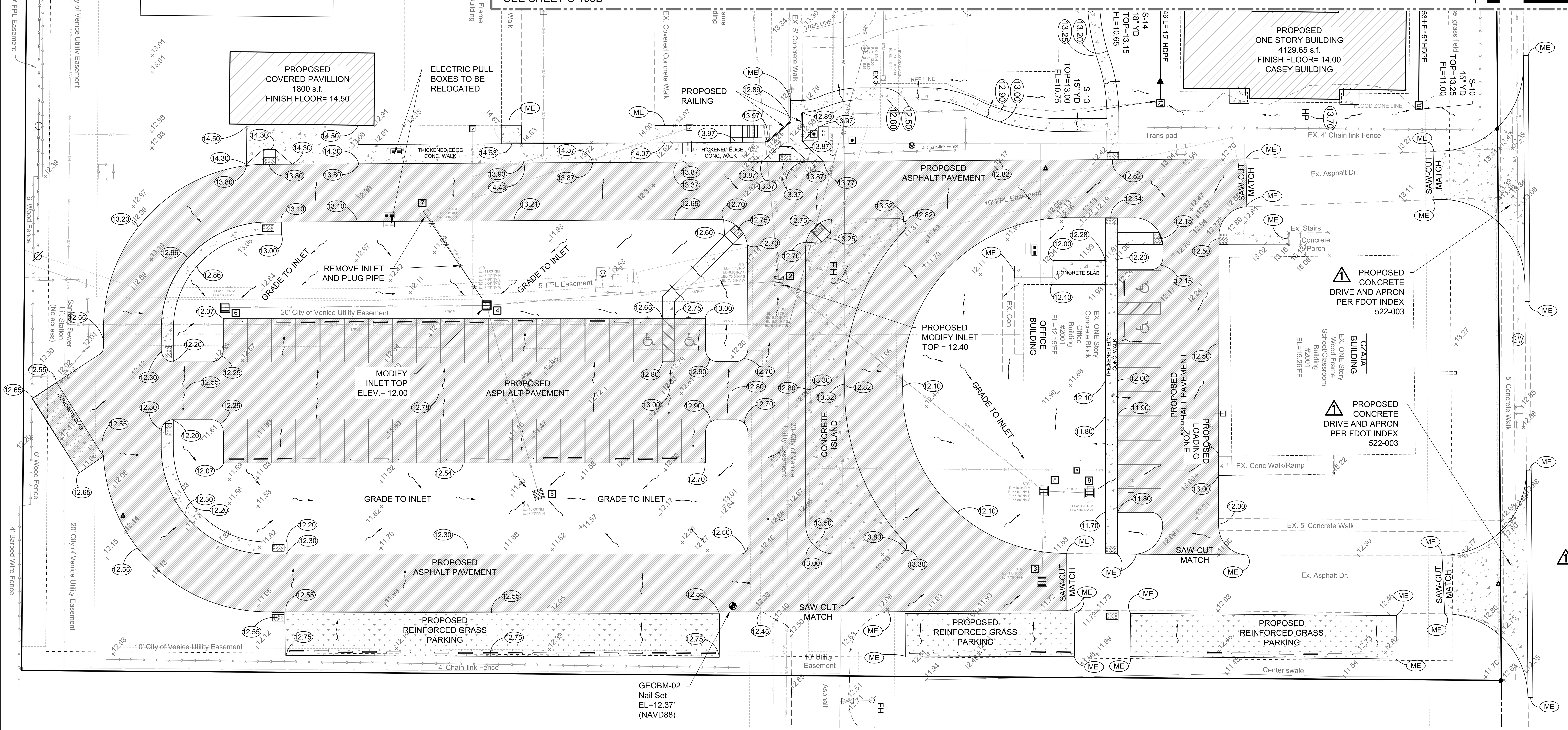
PROPOSED LEGEND

- DENOTES ASPHALT PAVEMENT
- DENOTES CONCRETE
- DENOTES STRUCTURE
- ELEV — PROPOSED ELEVATION
- 0.00 — EXISTING ELEVATION
- PROP FLOW DIRECTION ARROW
- 22 — DENOTES STORM INLET SEE STORM SEWER TABULATION
- FF — FINISH FLOOR
- CT — CURB TAPER
- ME — MATCH EXISTING GRADE
- TOC — TOP OF CURB

Scale: 1" = 20

40 0 40





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GRADING & DRAINAGE PLAN A

SITE AND DEVELOPMENT PLANS

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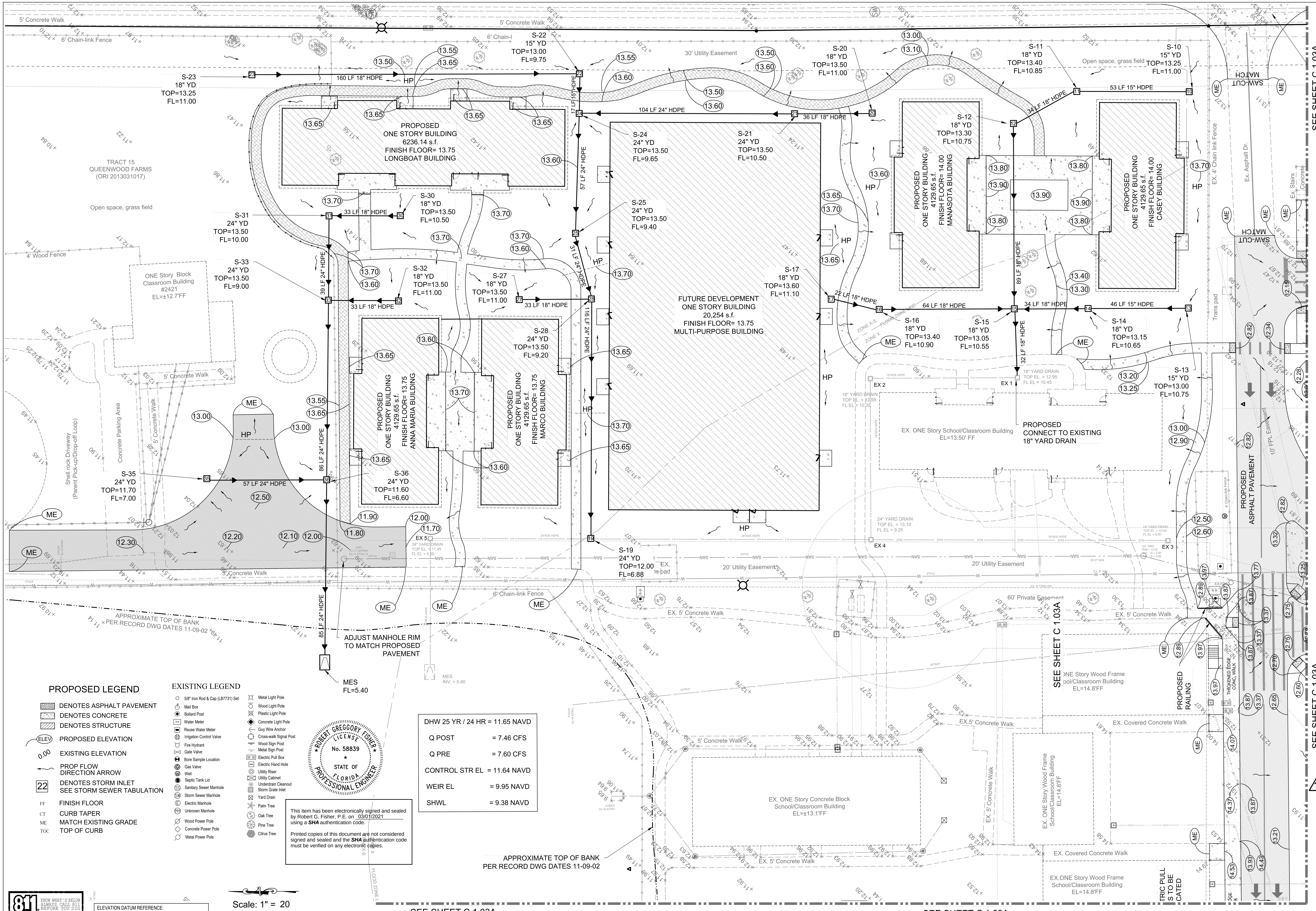

PROPOSED LEGEND
- DENOTES ASPHALT PAVEMENT
- DENOTES CONCRETE
- DENOTES STRUCTURE
- (ELEV) PROPOSED ELEVATION
- 0.00 EXISTING ELEVATION
- PROP FLOW DIRECTION ARROW
- 22 DENOTES STORM INLET SEE STORM SEWER TABULATION
- FF FINISH FLOOR
- CT CURB TAPER
- ME MATCH EXISTING GRADE
- TOC TOP OF CURB

EXISTING LEGEND
5/8" Iron Rod & Cap (LB7731) Set; Mail Box; Bollard Post; Water Meter; Reuse Water Meter; Irrigation Control Valve; Fire Hydrant; Gate Valve; Bore Sample Location; Gas Valve; Well; Septic Tank Lid; Sanitary Sewer Manhole; Storm Sewer Manhole; Electric Manhole; Unknown Manhole; Wood Power Pole; Concrete Power Pole; Metal Power Pole; Metal Light Pole; Wood Light Pole; Plastic Light Pole; Concrete Light Pole; Guy Wire Anchor; Cross-walk Signal Post; Wood Sign Post; Metal Sign Post; Electric Pull Box; Electric Hand Hole; Utility Riser; Utility Cabinet; Underdrain Cleanout; Storm Grate Inlet; Yard Drain; Palm Tree; Oak Tree; Pine Tree; Citrus Tree

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Q POST	= 7.46 CFS
Q PRE	= 7.60 CFS
CONTROL STR EL = 11.64 NAVD	
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SEE SHEET C 1.03A

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GRADING & DRAINAGE PLAN B

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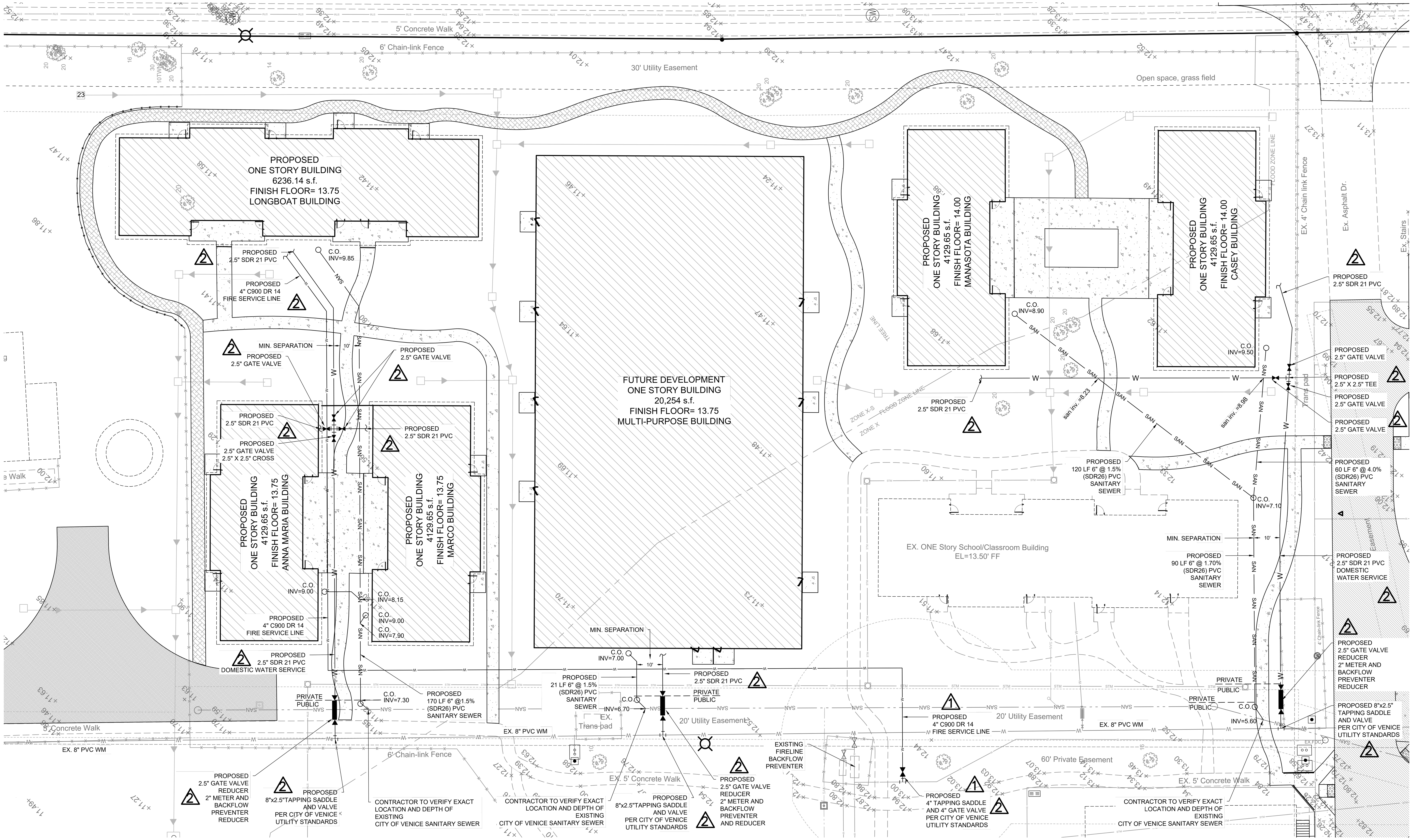

Scale: 1" = 20

LEGEND

- WATER VALVE
- WATER METER
- REDUCER OR INCREASER
- FIRE DEPT. CONNECTION
- FIRE HYDRANT
- C.O. PROPOSED SANITARY CLEAN-OUT

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POTABLE WATER MAINS AND RECLAIMED (RE-USE) WATER MAINS :

1. PVC PIPE SHALL MEET THE REQUIREMENTS OF:
   4" TO 12" AWWA C-900
   14" TO 36" AWWA C-905
   3" OR LESS ASTM B-1785, SCHEDULE 40 OR 80
   OR AS NOTED.

THE APPROPRIATE CLASS SHALL BE AS FOLLOWS: COLORED BLUE FOR WATER, PURPLE FOR REUSE. CLASS 150 DR18 - RESIDENTIAL AND ALL NON-COMMERCIAL AREAS AND ALL STREET CROSSINGS (OPEN-CUT, DIRECT BURY). CLASS 200 DR14 - ALL COMMERCIAL AND INDUSTRIAL AREAS.

2. DUCTILE IRON PIPE SHALL BE CEMENT LINED, CLASS 51, OR PRESSURE RATED AT 350. MECHANICAL JOINT OR PUSH-ON JOINT SHALL MEET ALL THE REQUIREMENTS OF THE FOLLOWING ANSI/AWWA C111/A 21.11 (FOR RUBBER GASKET JOINTS): ANSI/AWWA C150/21.50 (FOR THICKNESS DESIGN) AND ANSI/AWWA C151/A 21.51 (FOR DUCTILE IRON PIPE MOLDS). A. CEMENT LINED DUCTILE IRON PIPE MAY BE USED ON ALL TYPES OF WATER MAINS.

3. FITTINGS FOR DUCTILE IRON AND ALL PVC PIPE WILL BE CEMENT LINED DUCTILE IRON, MECHANICAL JOINT, 350 PRESSURE RATED, AND SHALL COMPLY WITH ANSI/AWWA C11/A 21.10 OR C153/A 21.53 AND C111/A 21.11 OR U.S. PIPES "PERMAFUSE" EPOXY. ALL MJ FITTINGS ARE TO BE RESTRAINED WITH MEGA LUGS, OR ROMAC GRIPPER RINGS. NO PVC FITTINGS PERMITTED.

4. P.E. PIPE SIZES 1/2" THROUGH 3 1/2" SHALL CONFORM TO AWWA C-901 STANDARDS. P.E. PIPE SIZES 4" THROUGH 63" SHALL CONFORM TO AWWA C-906 STANDARDS.

5. INSTALLATION OF WATER MAINS SHALL BE IN ACCORDANCE WITH ANSI/AWWA C900 (MANUAL M23) FOR PVC PRESSURE PIPE AND C600 FOR DUCTILE IRON PIPE.

6. ALL GATE VALVES ARE TO BE EPOXY LINED AND WITH RESILIENT WEDGE OR SEAT SIZES THRU 10" MANUFACTURED BY MUELLER OR M+H.

7. BACKFILL & COMPACTION: AS PER STANDARD DETAIL FOR WATER SYSTEMS.

8. PRESSURE TESTING SHALL BE IN ACCORDANCE WITH ANSI/AWWA C-600 (LATEST REVISION).
TEST: 150 PSI DURATION: 2 HOURS TESTING LENGTH: 1500 LF MAXIMUM

9. LEAKAGE FORMULA:

$$\frac{D \times L \times (\text{sq.rt.})\ P}{133{,}200} \times 2 = \text{TOTAL ALLOWABLE LOSS}$$

10. TAPPING SLEEVES:

A. STAINLESS STEEL WITH STAINLESS STEEL FLANGE MANUFACTURED BY FORD, J.C.M., ROMAC FOR ALL PVC PIPE EXCEPT SIZE ON SIZE.

B. CAST IRON MECHANICAL JOINT FOR ALL ASBESTOS-CEMENT AND DUCTILE IRON PIPE AND FOR ALL SIZE ON SIZE TAPS. TAPPING SLEEVES MANUFACTURED BY MUELLER OR M+H.

11. ALL TAPPING VALVES ARE TO BE EPOXY LINED AND WITH RESILIENT WEDGE OR SEAT. MANUFACTURED BY MUELLER OR M+H.

12. PAINT ALL EXPOSED PIPE AS PER SPECIFICATIONS IN THE PROTECTIVE COATING (EXTERNAL) SECTION.

13. FIRE PROTECTION: MATERIALS SHALL MEET AWWA B-502 OR 503.

14. BACKFLOW PREVENTOR ASSEMBLIES SHALL CONFORM TO AWWA M-14 STANDARDS.

15. ALL COLD-WATER METERS-DISPLACEMENT TYPE, BRONZE MAIN CASE, SIZE 1/2" THROUGH 2" SHALL MEET THE REQUIREMENST OF AWWA C700.

16. ALL WATER METER COMPONENTS THAT COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM WITH NSF STANDARD 61.

17. ALL MAINS TO HAVE A MINIMUM COVER OF 36 INCHES.

GRAVITY SEWER:

1. ALL SEWER LINES BETWEEN MANHOLES SHALL BE ABSOLUTELY STRAIGHT AND TRUE. NO CURVATURE SHALL BE TOLERATED. DEVIATION FROM LINE OR GRADE SHALL NOT BE MORE THAN 1/2 INCH FOR LINE AND 1/2 INCH FOR GRADE AT ANY SINGLE POINT.

2. PIPE LAYING SHALL PROCEED UPGRADE WITH SPIGOT ENDS POINTING IN DIRECTION OF FLOW.

3. TRENCH BOTTOM SHALL FORM A CONTINUOUS AND UNIFORM BEARING AND SUPPORT FOR THE PIPES.

4. ALL INSTALLED GRAVITY SEWER PIPE IS TO BE WASHED WITH A HIGH PRESSURE WATER HOSE AND TELEVISED WITH IN-LINE VIDEO CAMERA. THE VIDEO CAMERA SHALL HAVE PAN AND TILT CAPABILITIES AND ALL LATERALS WILL BE INSPECTED. A COPY OF THE VIDEO TAPE WILL BE TURNED OVER TO THE PROJECT ENGINEER FOR APPROVAL, AFTER WHICH IT WILL BE GIVEN TO THE JURISDICTIONAL UTILITY DEPARTMENT FOR FINAL APPROVAL. A REPRESENTATIVE FROM THE LOCAL JURISDICTION UTILITIES MUST BE PRESENT DURING CLEANING AND VIDEO TAPING.

5. ALL GRAVITY SEWER PIPE SHALL BE AIR TESTED PER THE LOCAL UTILITY JURISDICTION SPECIFICATIONS.

6. INFILTRATION OR EXFILTRATION TEST ARE NOT ACCEPTABLE FOR PIPE.

7. ALL TEES, STUBOUTS AND SERVICE CONNECTIONS ARE TO BE PLUGGED WITH ACCEPTABLE GASKETED CAP OR PLUG CAPABLE OF WITHSTANDING INTERNAL TEST PRESSURES. ALL PLUGS OR CAPS MUST BE REMOVABLE AND THEIR REMOVAL SHALL PROVIDE A SOCKET SUITABLE FOR MAKING A FLEXIBLE JOINTED CONNECTION OR EXTENSION.

8. ALL GRAVITY SEWER PIPE SHALL BE PVC GRAVITY SEWER PIPE HEAVY WALL SDR26 W/ LOCKED IN O-RING.
A. CUTS LESS THAN 5' DEEP OR DEEPER THAN 10' SHALL BE C900 DR18 PIPE.
B. PIPE BETWEEN MANHOLE AND LIFT STATION SHALL BE DR14 PIPE.
C. PIPE CROSSING POTABLE WATER MAINS WITHIN 18" SHALL BE C900 PVC DR18.

FOR AGENCY REVIEW

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PROPOSED UTILITIES

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ROBERT GREGGORY FISHER LICENSE No. 58839 STATE OF FLORIDA PROFESSIONAL ENGINEER

Fisher Engineering
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UTILITY PLAN

SITE AND DEVELOPMENT PLANS

Island Village Montessori School

In accordance with 61G15-30.003 (5) F.A.C., these preliminary engineering documents are not in final form, but are being transmitted to the public agency to receive agency review, comments and interpretations. The documents may subsequently be reviewed by the Engineer to reflect resolution of issues with public agency prior to final action by the agency. Changes, revisions and modifications to a project may prompt additional document submittal for agency approval action on the same project.

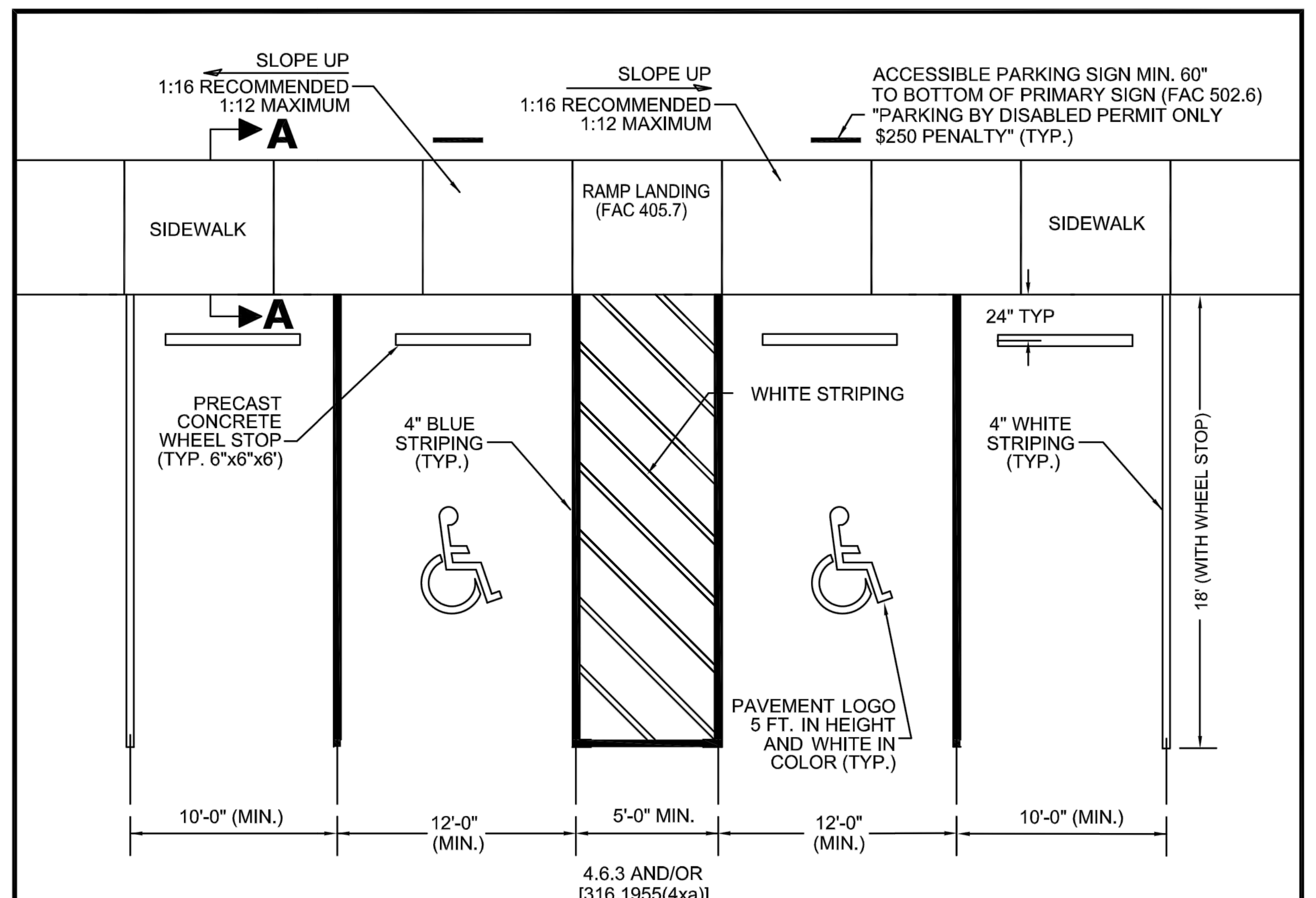
Revisions:

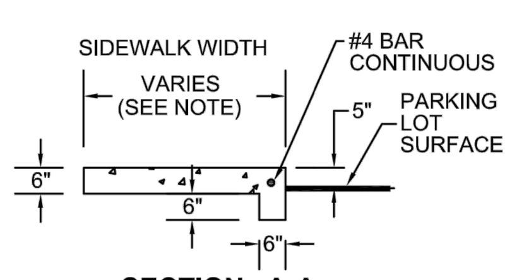
2	2021/02/04 COMMENTS PER COV
1	2021/01/06 COMMENTS PER COV

ROBERT G. FISHER P.E.
FLA. LIC. NO. 58839
C.A. NO. 31696
DATE:

Date:	01-21-2021
Scale:	SHOWN
Drawn By:	MSP
Checked By:	RGF
Project #:	20-0006

SHEET C1.04





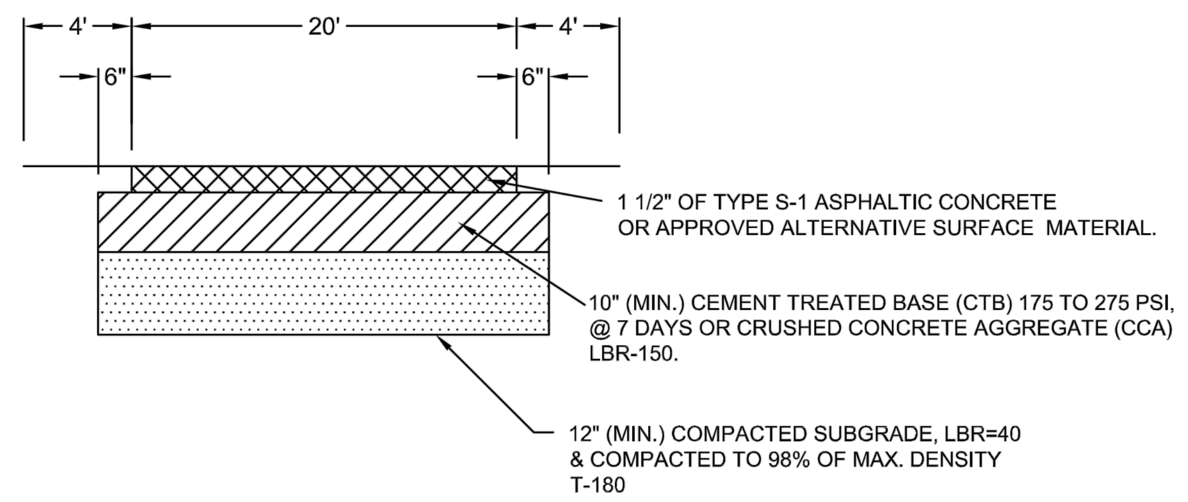
SECTION A-A

1.) IF AN ADJACENT SIDEWALK IS A MINIMUM OF SEVEN (7) FEET IN WIDTH AND PROVIDES A 5" INCH CURB, THE SIDEWALK MAY SERVE AS THE WHEEL STOP AND THE STANDARD PARKING SPACE MAY BE 16' DEEP.
2.) IF AN ADJACENT LANDSCAPE AREA IS A MINIMUM OF 3.5' PER ABUTTING PARKING SPACE AND PROTECTED BY CONCRETE CURBING OR WHEEL STOP, 2 FEET OF THE REQUIRED DEPTH MAY ENCROACH INTO THE LANDSCAPE AREA. IF THE REQUIRED DEPTH ENCROACHES INTO THE LANDSCAPE AREA, THE WHEEL STOP MUST BE PLACED AT THE EDGE OF PAVEMENT.
3.) ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL BE CONSTRUCTED WITH SURFACE SLOPES NOT TO EXCEED 1:50 (2%) IN ALL DIRECTIONS AND THE GROUND SURFACE SHALL BE STABLE, FIRM AND SLIP RESISTANT.
4.) NO COLORS OTHER THAN WHITE AND BLUE SHALL BE USED FOR PARKING SPACE PAVEMENT MARKINGS.
5.) ALL DIMENSIONS SHOWN ARE TO THE CENTERLINE OF PAVEMENT MARKINGS.

ACCESSIBLE & TYPICAL PARKING SPACE DETAIL

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	ENGINEERING ACCESSIBLE & TYPICAL PARKING	DATE MAY 2020 SHEET NO. ENG-5



1.) ACCESS ROADS SHALL HAVE AN UNOBSTRUCTED WIDTH OF NOT LESS THAN 20' AND AN UNOBSTRUCTED VERTICAL CLEARANCE OF NOT LESS THAN 13'6"
2.) ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE APPARATUS AND SHALL BE PROVIDED WITH A SURFACE SUITABLE FOR ALL WEATHER DRIVING CAPABILITIES.
3.) REQUIREMENTS MAY BE SUBJECT TO CHANGE AS PER UNIFORM FIRE CODE, FLORIDA LATEST EDITION.
4.) FIRE LANE SIGNS THAT COMPLY WITH THE REQUIREMENTS OF THE FLORIDA FIRE PREVENTION CODE MUST BE INSTALLED.

- EMERGENCY ACCESS SHALL BE MARKED WITH FREESTANDING SIGNS WITH THE WORDING:

NO PARKING
FIRE LANE
TOW AWAY ZONE
F.S.316-1945

- 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 60 FEET APART.

5.) IT IS IMPERATIVE THAT THIS EMERGENCY ACCESS REMAINS OPEN AT ALL TIMES. IT IS THEREFORE INCUMBENT UPON YOUR STAFF TO NOTIFY THE VENICE POLICE DEPARTMENT ANYTIME A VEHICLE IS BLOCKING THIS REQUIRED EMERGENCY ACCESS.

EMERGENCY VEHICLE ACCESS DETAIL

N.T.S.

1

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	ENGINEERING EMERGENCY VEHICLE ACCESS	DATE MAY 2020 SHEET NO. ENG-6

ROBERT GREGGORY FISHER
LICENSE
No. 58839
STATE OF FLORIDA
PROFESSIONAL ENGINEER

This item has been electronically signed and sealed by Robert G. Fisher, P.E. on 03/01/2021 using a ***SHA*** authentication code.

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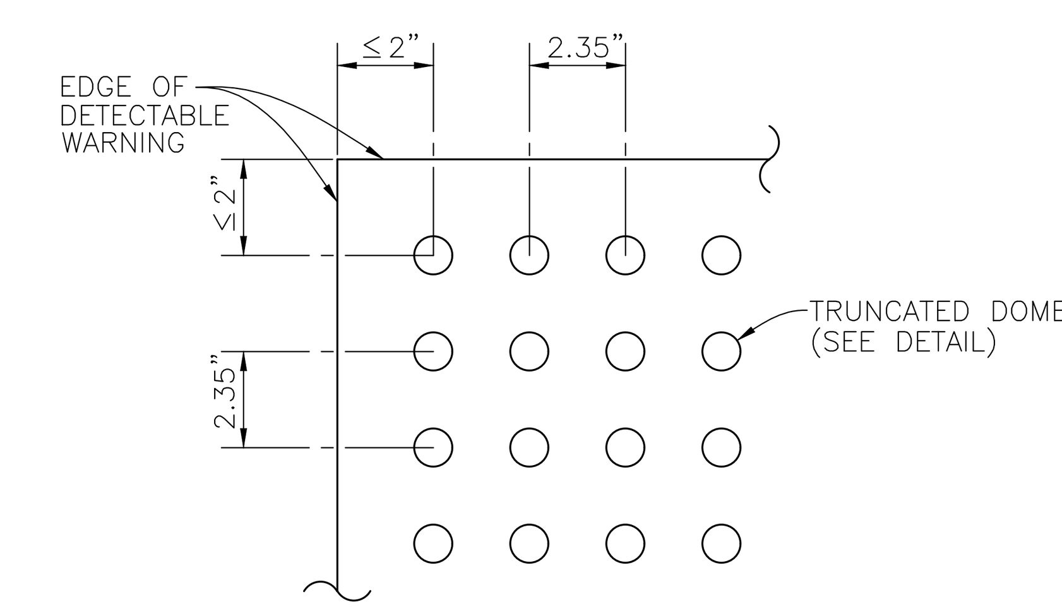
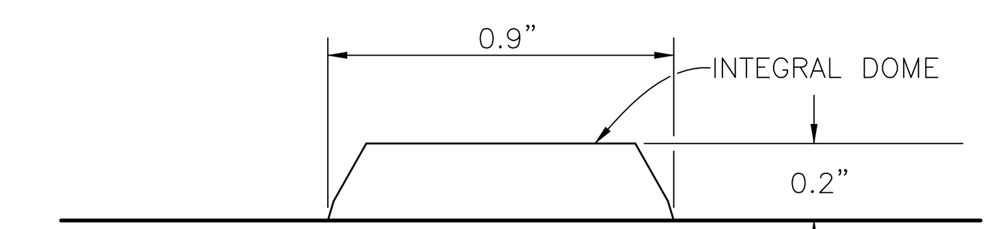


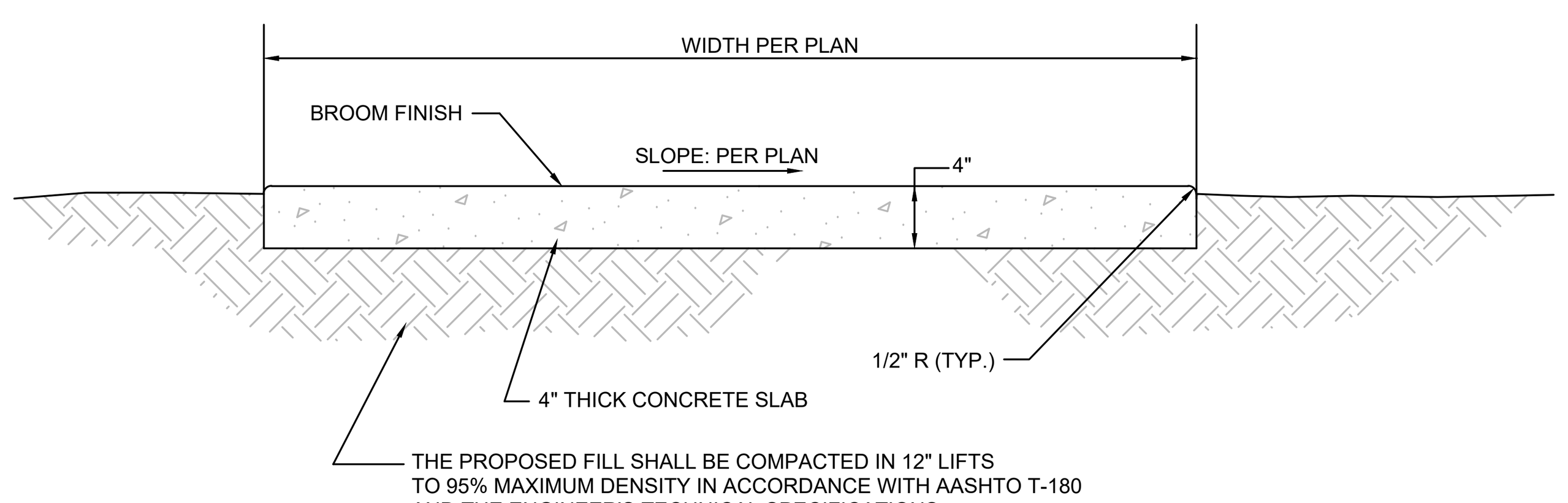
PLAN VIEW



TRUNCATED DOME

CURB RAMP DETECTABLE WARNING DETAIL

N.T.S.

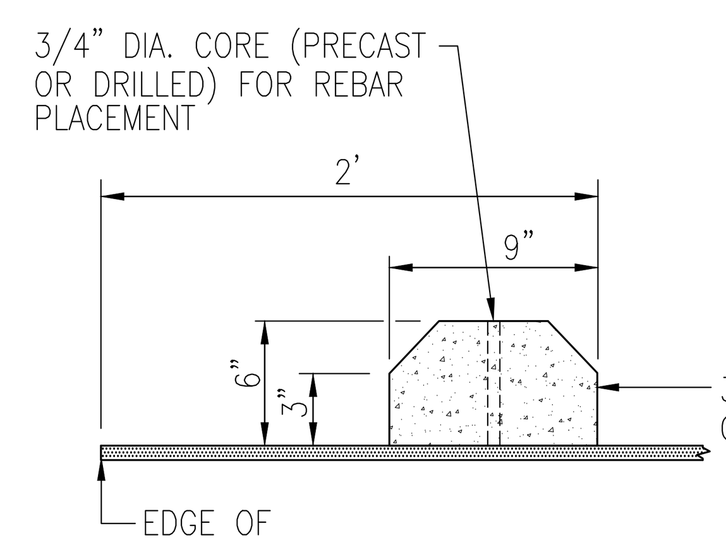


SIDEWALK NOTES:

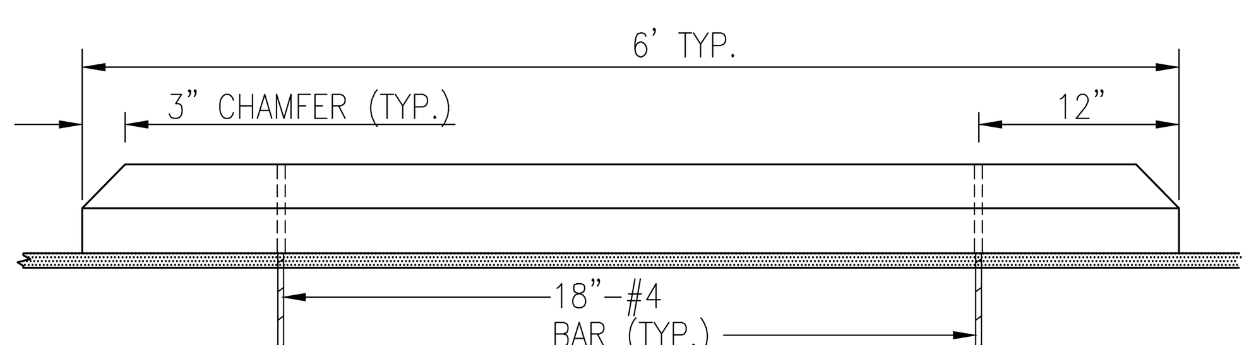
1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 P.S.I. IN 28 DAYS WITH FIBROUS CONCRETE REINFORCEMENT.
2. CONTRACTION JOINTS SHALL BE SAW CUT TO A 1 1/2" DEPTH AT INTERVALS EQUAL TO THE WIDTH OF THE SIDEWALK.
3. AN EXPANSION JOINT WILL BE PLACED AT THE END OF ALL RETURNS, AT FIXED OBJECTS (DRIVEWAYS, CURBS ETC.) AND INTERVALS NOT TO EXCEED 50'. EXPANSION JOINTS SHALL BE CONSTRUCTED WITH 1/2" PREFORMED JOINT FILLER.
4. ALL SIDEWALKS AND SIDEWALK CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA).

TYPICAL SIDEWALK DETAIL

N.T.S.



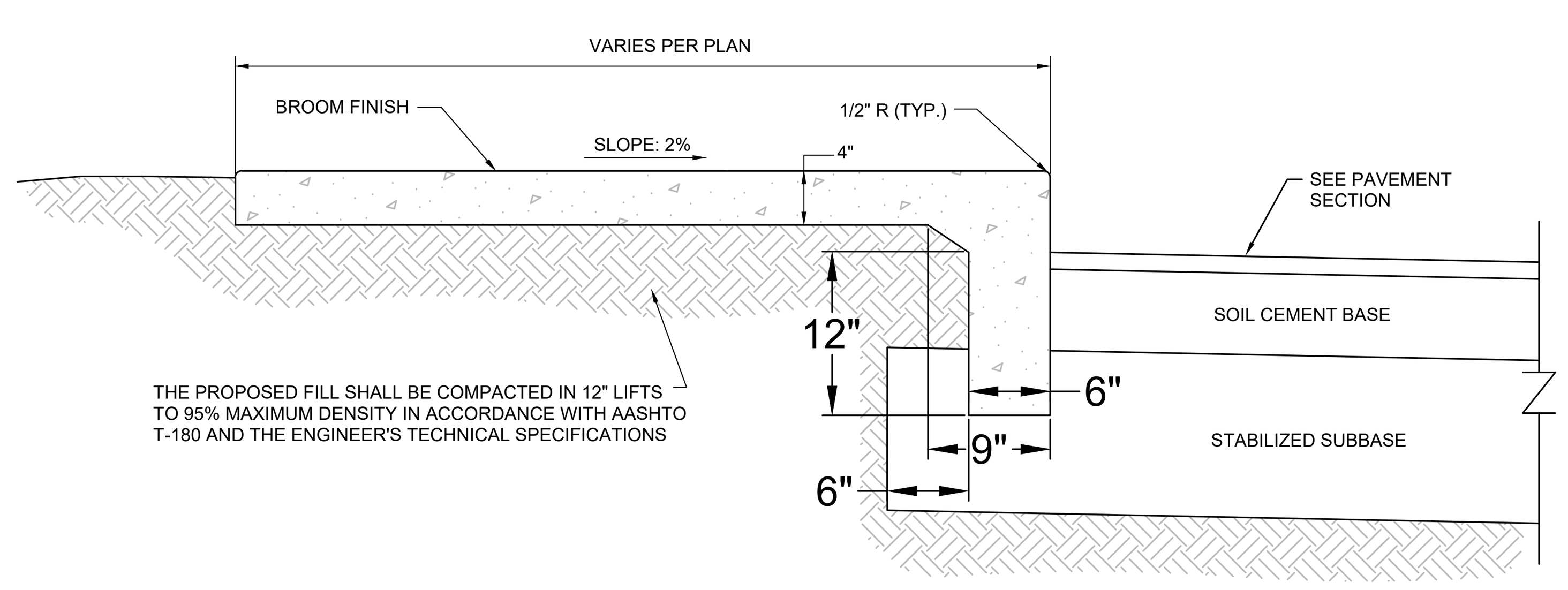
SECTION



ELEVATION

CONCRETE WHEEL STOP

N.T.S.



NOTES:

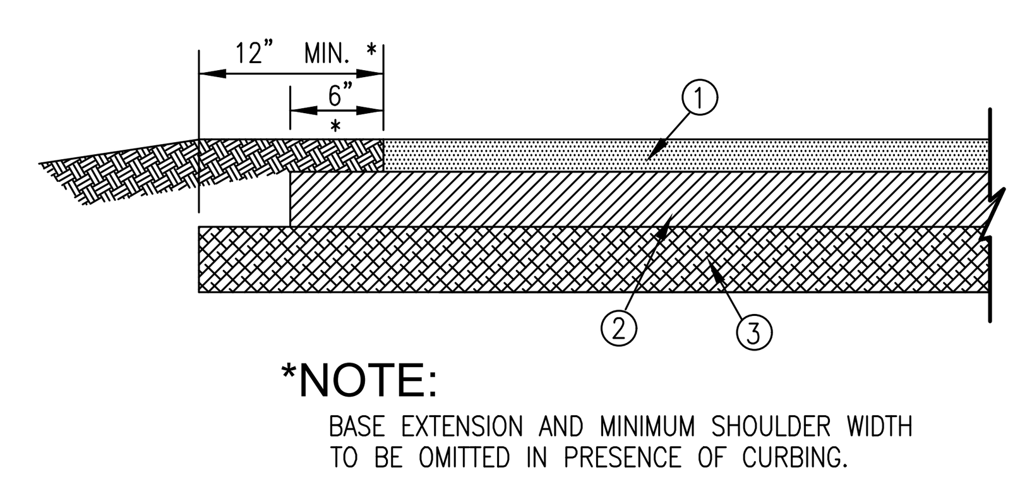
CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 P.S.I. IN 28 DAYS WITH FIBROUS CONCRETE REINFORCEMENT.

SUBGRADE SHALL BE SAND, COMPACTED TO A FIRM EVEN SURFACE, TRUE TO GRADE AND CROSS-SECTION, AND BE MOIST WHEN CONCRETE IS PLACED.

SIDEWALK SHALL HAVE CONTRACTION JOINTS AT 5' INTERVALS AND AN EXPANSION JOINT EVERY 35'.

THICKENED EDGE SIDEWALK

N.T.S.



*NOTE:
BASE EXTENSION AND MINIMUM SHOULDER WIDTH TO BE OMITTED IN PRESENCE OF CURBING.

PAVING COURSES

1. ASPHALTIC CONCRETE WEARING SURFACE, 1-1/2" MIN. COMPACTED THICKNESS, TYPE S-3 COMPACTED TO 95% MARSHALL STABILITY TEST AND IN ACCORDANCE WITH F.D.O.T. SECTION 334.
2. BASE, MIN. 7" THICK CRUSHED CONCRETE (GRADED AGGREGATE MIN. LBR 175%). COMPACTED TO 98% DENSITY AS DETERMINED BY AASHTO T-180, IN ACCORDANCE WITH F.D.O.T. SECTION 204. PRIME COAT TO BE APPLIED WITHIN 2% OF OPTIMUM MOISTURE.
   ALTERNATE BASE MATERIAL, MIN. 7" THICK LIMEROCK (MIN. LBR 100%), IN ACCORDANCE WITH F.D.O.T. SECTION 911.
3. STABILIZED SUBGRADE, 8" THICK, TYPE 'B' STABILIZATION, (MIN. LBR 40), COMPACTED TO 98% DENSITY AS DETERMINED BY AASHTO T-180, IN ACCORDANCE WITH F.D.O.T. SECTION 160.

ASPHALT PAVEMENT SECTION - STANDARD DUTY ON-SITE

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FOR AGENCY REVIEW

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SITE DETAILS

SITE AND DEVELOPMENT PLANS

Island Village Montessori School

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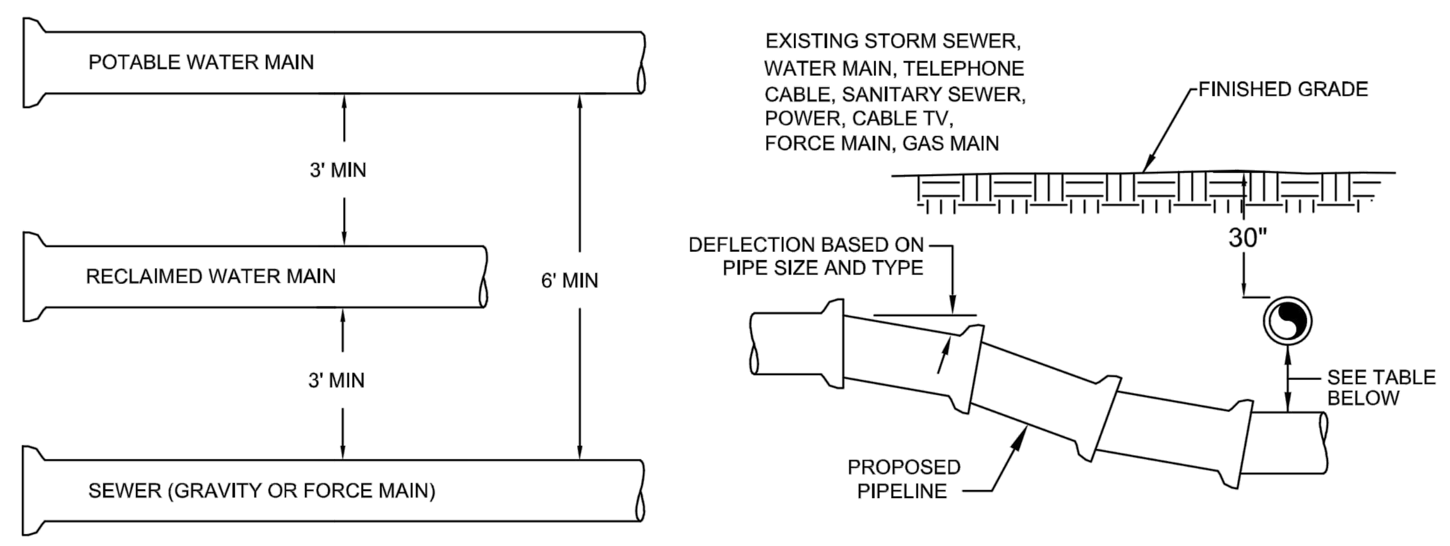
Revisions:

1 2021/02/04 COMMENTS PER COV
2021/01/06 COMMENTS PER COV

ROBERT G. FISHER P.E.
FLA. LIC. NO. 58839
C.A. NO. 31696
DATE:

Date:	01-21-2021
Scale:	SHOWN
Drawn By:	MSP
Checked By:	RGF
Project #:	20-0006

SHEET C5.00



MINIMUM HORIZONTAL SEPARATION DISTANCES (FT)

(OUTSIDE OF PIPELINE TO OUTSIDE OF PIPELINE)

	WATER MAIN	FORCE MAIN	SANITARY SERVICE	REUSE MAIN	STORM WATER	OTHER UTILITIES (TELEPHONE, CABLE, ETC.)
WATER MAIN	3	6	6	3	3	3
FORCE MAIN	6	3	3	3	3	3
SANITARY SEWER	6	3	3	3	3	3
REUSE MAIN	3	3	3	3	3	3
STORM WATER	3	3	3	3	3	3
OTHER UTILITIES	3	3	3	3	3	3

MINIMUM VERTICAL SEPARATION DISTANCES (IN)

(OUTSIDE OF PIPELINE TO OUTSIDE OF PIPELINE)

	WATER MAIN	FORCE MAIN	SANITARY SERVICE	REUSE MAIN	STORM WATER	OTHER UTILITIES (TELEPHONE, CABLE, ETC.)
WATER MAIN	6	12	12	6	6	6
FORCE MAIN	12	6	6	6	6	6
SANITARY SEWER	12	6	6	6	6	6
REUSE MAIN	6	6	6	6	6	6
STORM WATER	6	6	6	6	6	6
OTHER UTILITIES	6	6	6	6	6	6

1.) MAXIMUM JOINT DEFLECTION SHALL BE 90% OF MANUFACTURER'S RECOMMENDATION.
2.) WHEREVER POSSIBLE, THE LAYOUT OF UTILITIES SHALL PLACE SANITARY SEWER AND SEWER FORCE MAINS BELOW RECLAIMED MAINS AND BELOW WATER MAINS, RESPECTIVELY. WHERE WATER MAINS ARE ABOVE GRAVITY SEWERS OR WASTEWATER FORCE MAINS, A VERTICAL CLEARANCE OF 6 INCHES IS ACCEPTABLE. STORM SHALL BE PLACED BELOW BOTH WATER AND SEWER WHERE POSSIBLE.
3.) ACCEPTABLE VARIANCES:
   A. WHERE HORIZONTAL SEPARATION CANNOT BE MAINTAINED, C900 DR14 PVC PIPE SHALL BE USED FOR ONE OF THE PIPELINES.
   B. WHERE VERTICAL CLEARANCE CANNOT BE MAINTAINED, ONE FULL LENGTH OF DR14 C900 PIPE SHALL BE INSTALLED CENTERED AT THE POINT OF CROSSING.
   C. WHERE 36" MINIMUM DEPTH OF COVER CANNOT BE MAINTAINED, SPECIAL PROTECTION OR PIPE MATERIAL UPGRADE MAY BE REQUIRED, AT THE DISCRETION OF THE UTILITY DEPARTMENT.
4.) NO UTILITY PIPE SHALL PASS THROUGH, OR COME IN CONTACT WITH ANY PART OF A SANITARY MANHOLE OR STORMWATER STRUCTURE WITHOUT APPROVAL FROM THE UTILITIES DIRECTOR OR CITY ENGINEER.

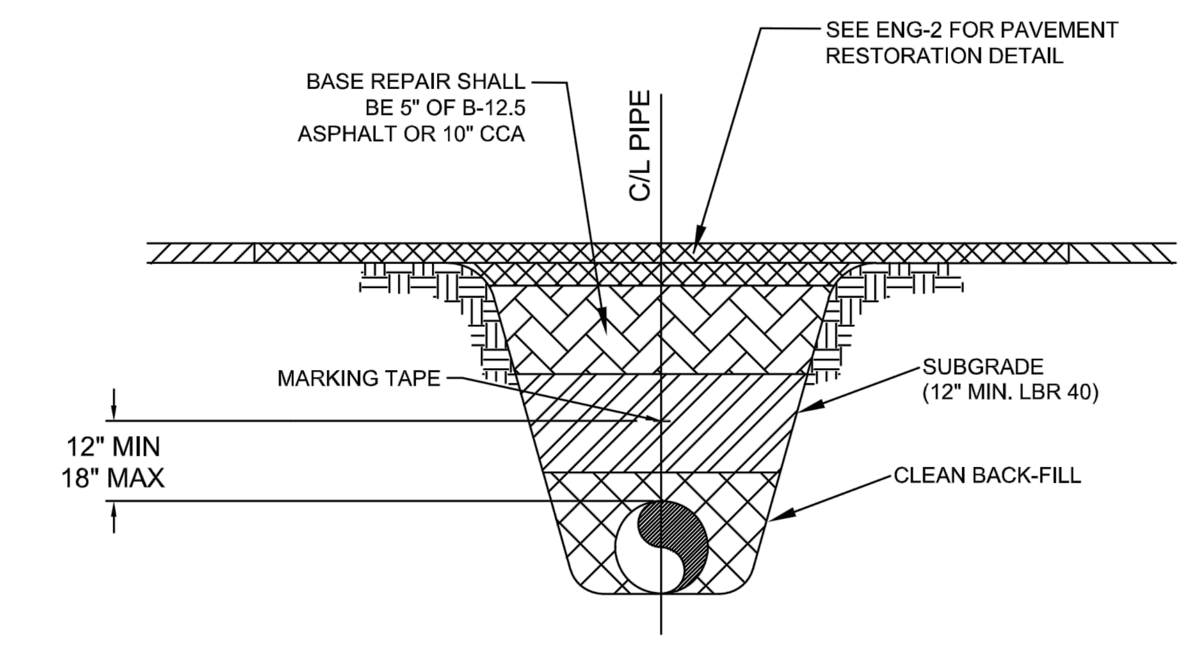
UTILITY CONFLICT & SEPARATION DETAIL

1

N.T.S.

CITY OF VENICE
ENGINEERING DEPARTMENT
401 WEST VENICE AVE.
VENICE FL 34285
(941) 486-2626
FAX (941) 480-3031
Venice, Florida "City on the Gulf"

UTILITIES - GENERAL
UTILITY CONFLICTS & SEPARATIONS
DATE MAY 2020
SHEET NO. U-5



MARKING TAPE AND MESSAGES		
PIPE	TAPE COLOR	MESSAGE
PVC STORM WATER	WHITE	CAUTION STORM WATER OR STORM DRAIN BELOW
POTABLE WATER MAIN	BLUE	CAUTION POTABLE WATER MAIN BELOW
REUSE WATER MAIN	PURPLE	CAUTION REUSE WATER MAIN BELOW
SEWER FORCE MAIN	GREEN	CAUTION SEWER FORCE MAIN BELOW
SEWER & SERVICE LATERALS	GREEN	CAUTION SEWER MAIN BELOW

1.) COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE ATTACHED TO TOP OF PIPE AT 20' INTERVALS ON ALL RECLAIMED WATER, FORCE, OR POTABLE WATER MAINS. IT SHALL BE COLOR CODED TO REFLECT WHAT THE PIPE CARRIES. (BLUE = WATER, GREEN = SEWER, PURPLE = REUSE)
2.) MINIMUM COVER SHALL BE 36" FROM TOP OF PIPE TO FINISHED GRADE MAXIMUM COVER SHALL BE 42" FROM FINISHED GRADE UNLESS OTHERWISE APPROVED.
3.) INSTALLATION OF PIPE SHALL BE IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4.) PAVEMENT RESTORATION SHALL CONFORM WITH DETAIL ENG-2 OF THESE CITY STANDARDS.
5.) CONFLICTS - UTILIZE 45° BENDS WITH SEPARATION AS PER CITY DETAILS.
6.) ALL UTILITIES (PUBLIC & PRIVATE) THAT CROSS A DITCH/SWALE SHALL BE 36" MIN. BELOW THE ACTUAL/DESIGN BOTTOM OF CONVEYANCE.
7.) MARKING TAPE SHALL BE 3" WIDE (MIN.) DETECTIBLE UNDERGROUND WARNING TAPE. INSTALL CENTERED DIRECTLY OVER THE PIPE.
8.) SEE S-6 FOR GRAVITY SEWER PIPE TRENCH DETAIL.

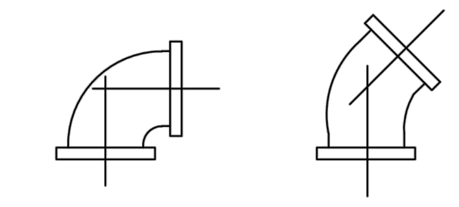
PRESSURE PIPE TRENCH DETAIL

N.T.S.

1

CITY OF VENICE
ENGINEERING DEPARTMENT
401 WEST VENICE AVE.
VENICE FL 34285
(941) 486-2626
FAX (941) 480-3031

UTILITIES - GENERAL
UTILITY PIPE TRENCH
DATE MAY 2020
SHEET NO. U-1



1.) ALL PIPE FITTINGS SHALL BE COMPACT, DUCTILE IRON.
2.) ALL APPLICATIONS (RAW, POTABLE, REUSE, SEWER) SHALL BE FUSION BONDED EPOXY COATED INSIDE AND OUT.
3.) ALL FITTINGS SHALL MEET ANSI/AWWA C116/A21,16 STANDARDS.

PIPE FITTINGS

N.T.S.

SERVICE	COLOR	MATERIAL/CLASS
POTABLE WATER MAIN	BLUE	AWWA C900 PVC / DR 18 FUSIBLE C900 PVC / DR 18 HDPE PPI PE 4710 / DR 11 (DUCTILE IRON PIPE SIZE)
RAW WATER MAIN	WHITE	
REUSE MAIN	PURPLE	
FORCE MAIN (MIN. 4" DIAMETER)	GREEN	
WATER SERVICE	BLUE	PE (POLYTUBING) / DR 9
REUSE SERVICE	PURPLE	PE (POLYTUBING) / DR 9
GRAVITY SEWER MAIN (MIN. 8" DIAMETER)	GREEN	ASTMD3034 / SDR 26 FUSIBLE PVC / SDR 26
SEWER LATERAL (MIN. 6" DIAMETER)	GREEN	ASTMD3034 / SDR 26 / SDR 35 / SCH 40 PVC

PIPE MATERIAL SCHEDULE

N.T.S.

1

CITY OF VENICE
ENGINEERING DEPARTMENT
401 WEST VENICE AVE.
VENICE FL 34285
(941) 486-2626
FAX (941) 480-3031

UTILITIES - GENERAL
PIPE FITTINGS & MATERIAL
DATE MAY 2020
SHEET NO. U-6

MINIMUM LENGTH (FT) OF FORCE MAIN TO BE RESTRAINED ON EACH SIDE OF FITTING										
FITTING		PIPE SIZE (INCHES) 4	6	8	10	12	16	18	20	24
45 BEND:	H	6	9	12	14	16	21	23	25	29
	VU	4	6	7	9	10	13	15	16	19
	VD	12	20	26	32	37	48	53	28	68
22.5 BEND:	H	3	4	6	7	8	10	11	12	14
	VU	2	3	4	4	5	6	7	8	9
	VD	7	10	13	15	18	23	26	28	33
11.25 BEND:	H	2	2	3	3	4	5	5	6	7

MINIMUM LENGTH (FT) OF WATER OR REUSE MAIN TO BE RESTRAINED ON EACH SIDE OF FITTING										
FITTING		PIPE SIZE (INCHES) 4	6	8	10	12	16	18	20	24
90 BEND:	H	23	33	43	51	60	76	83	90	104
45 BEND:	H	10	14	18	21	25	31	34	37	43
	VU	6	8	11	13	16	20	22	24	28
	VD	22	30	40	48	56	72	80	87	102
22.5 BEND:	H	5	7	8	10	12	15	17	18	21
	VU	3	4	5	6	7	10	11	12	14
	VD	10	15	19	23	27	35	38	42	49
11.25 BEND:	H	2	3	4	5	6	7	8	9	10
PLUGS:		52	73	96	115	136	174	193	211	246

ABBREVIATIONS: H=HORIZONTAL, VU=VERTICAL UP, VD=VERTICAL DOWN.

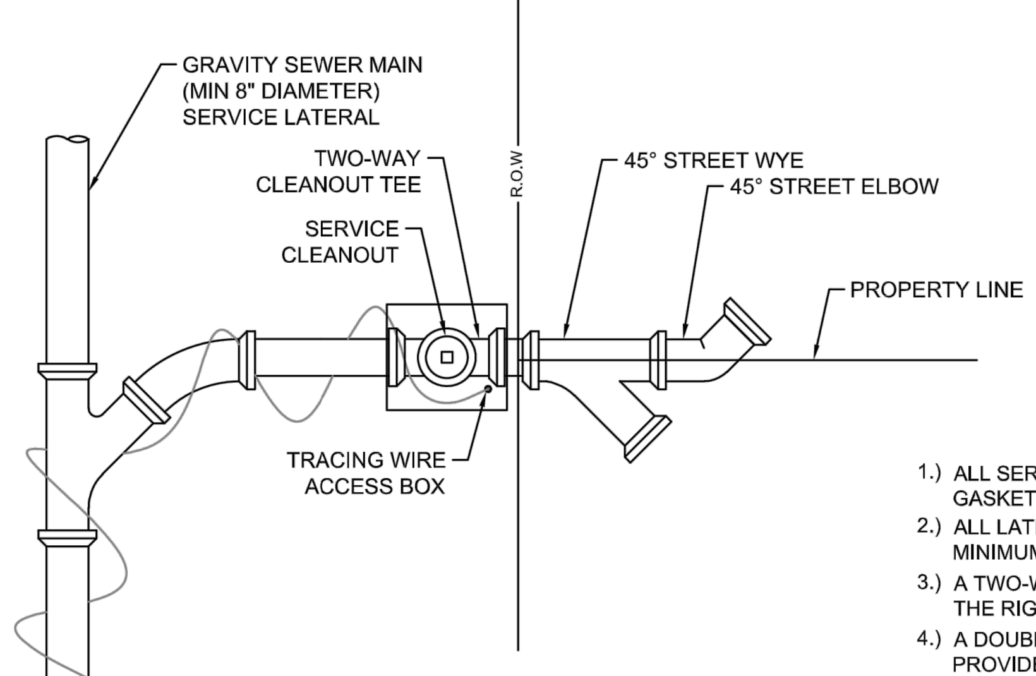
1.) FOR TEE OR REDUCER FITTINGS SUBMIT RESTRAINED JOINT LENGTH CALCULATIONS TO CITY ENGINEER FOR REVIEW AND APPROVAL, USING THE ASSUMPTIONS LISTED ABOVE.
2.) RESTRAINED JOINT LENGTH FOR WATER AND REUSE MAINS BASED ON TEST PRESSURE OF 150 PSI. RESTRAINED JOINT LENGTH FOR FORCE (SEWER) MAINS BASED ON TEST PRESSURE OF 100 PSI. CALCULATIONS WERE MADE USING EBAA IRON SOFTWARE (AVAILABLE AT WWW.EBAA.COM) AND THE FOLLOWING ASSUMPTIONS: GRANULAR MATERIAL (GM) SOIL TYPE, TRENCH TYPE 3, BURY DEPTH OF 3 FT, AND SAFETY FACTOR OF 2 TO 1. IF FIELD CONDITIONS DIFFER FROM ABOVE ASSUMPTIONS EOR SHALL PROVIDE CALCULATIONS BASED ON ACTUAL CONDITIONS.
3.) RESTRAINED JOINT SHALL BE USED ON ALL JOINTS FROM ANY MAIN TEE TO ANY FIRE HYDRANT ASSEMBLY.
4.) THRUST BLOCKS WILL NOT BE ACCEPTED, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
5.) ALL HARDWARE SHALL BE 316 SS.

PRESSURE MAIN RESTRAINED JOINT TABLE

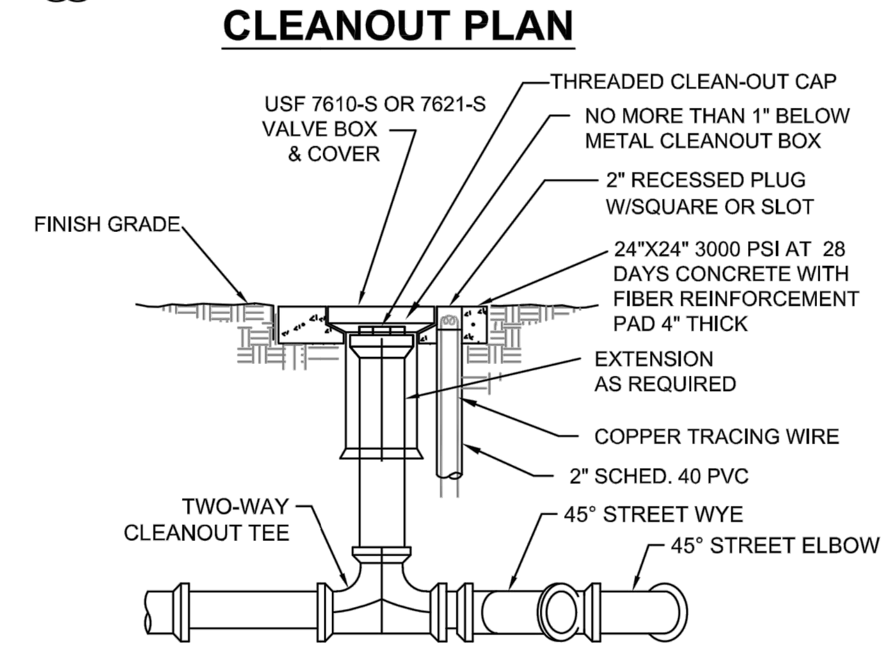
1 N.T.S.

CITY OF VENICE
ENGINEERING DEPARTMENT
401 WEST VENICE AVE.
VENICE FL 34285
(941) 486-2626
FAX (941) 480-3031

UTILITIES - GENERAL
RESTRAINED JOINT TABLE
DATE MAY 2020
SHEET NO. U-7



CLEANOUT PLAN



CLEANOUT PROFILE

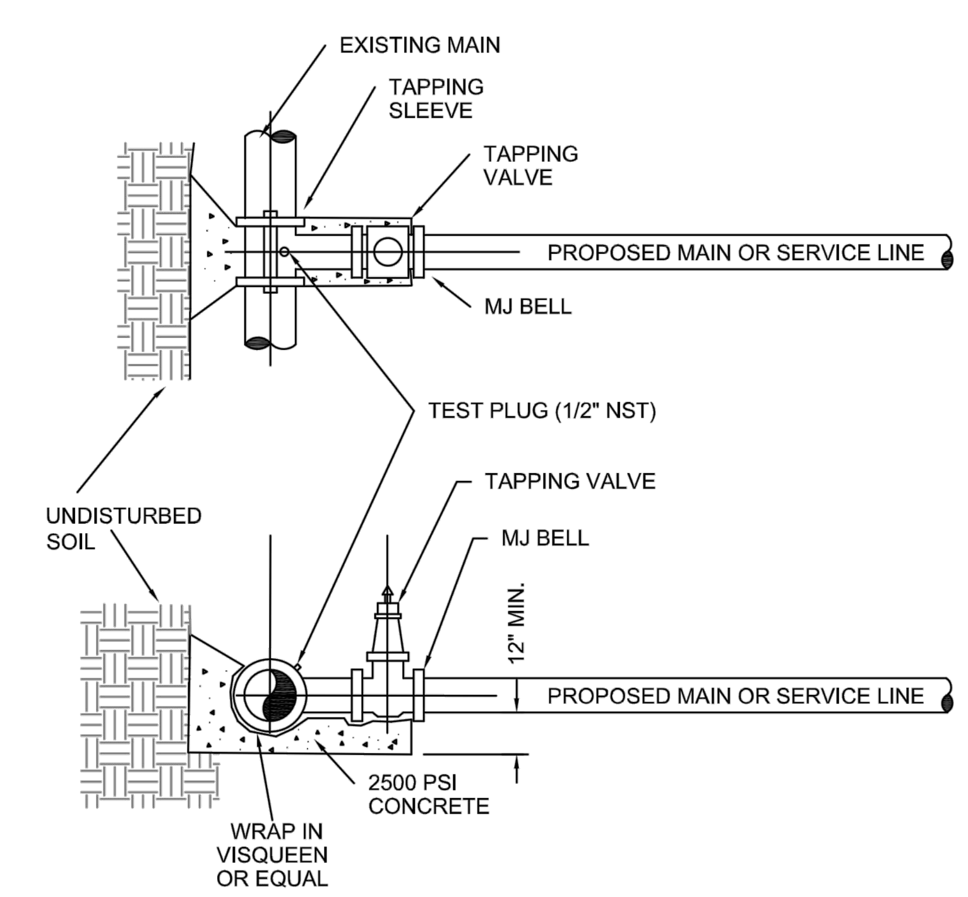
1.) ALL SERVICE LATERAL JOINTS SHALL BE GASKETED FROM MAIN WYE.
2.) ALL LATERAL SERVICES SHALL BE A MINIMUM OF SIX INCHES IN DIAMETER.
3.) A TWO-WAY CLEANOUT SHALL BE PROVIDED AT THE RIGHT OF WAY ON THE PROPERTY LINE.
4.) A DOUBLE-SWEEP CLEANOUT SHALL BE PROVIDED ON THE PRIVATE SIDE.
5.) COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE USED. IT SHALL BE COLOR CODED TO GREEN FOR SEWER.
6.) AIR TEST REQUIRED.
7.) THE BUILDING GENERAL CONTRACTOR SHALL INSURE THE APPLICABLE SERVICING SANITARY SEWER CLEANOUT CONNECTION IS PLACED AT FINISH GRADE WITH COVER, AND IS WITH A CONCRETE PAD AT THE TIME CERTIFICATION OF OCCUPATION (CO) IS REQUESTED. NON COMPLIANCE MAY RESULT IN A DELAY OF CO.
8.) FOR CURBED ROADWAYS: CURB SHALL BE ETCHED WITH THE LETTER "S" DIRECTLY PERPENDICULAR TO THE SEWER CLEAN-OUT.
9.) WHEN CONNECTING TO EXISTING SERVICE TAPS ON VCP, REMOVE EXISTING VCP WYE AND REPLACE WITH SDR26 GASKETED FITTINGS. USE MAXADAPTOR TO TRANSITION FROM VCP TO PVC.

SANITARY SEWER SERVICE & CLEANOUT DETAIL

1 N.T.S.

CITY OF VENICE
ENGINEERING DEPARTMENT
401 WEST VENICE AVE.
VENICE FL 34285
(941) 486-2626
FAX (941) 480-3031

UTILITIES - SEWER
SEWER SERVICE & CLEANOUT
DATE MAY 2020
SHEET NO. S-4



1.) EXISTING MAIN SHALL NOT BE TAPPED UNTIL THE ASSEMBLED SLEEVE AND VALVE ARE TESTED IN PLACE AT A MINIMUM OF 150 PSI FOR THIRTY MINUTES.
2.) UPON SUCCESSFUL TAPPING SLEEVE PRESSURE TEST (NOTE 1), THE THRUST BLOCK SHALL BE POURED AND HAVE SET FOR 24 HRS PRIOR TO TAPPING. READY-MADE THRUST BLOCKS CAN BE USED WITH CITY APPROVAL.
3.) STAINLESS STEEL TAPPING SLEEVE SHALL BE FORD. ALL HARDWARE SHALL BE 316 STAINLESS STEEL. GASKETS SHALL BE VIRGIN SBR COMPOUND.
4.) GATE VALVES SHALL BE RESILIENT WEDGE-TYPE MANUFACTURED BY MUELLER OR AMERICAN VALVE. ALL GATE VALVES SHALL BE FUSION BONDED EPOXY COATED (INTERIOR AND EXTERIOR) MEET ANSI/AWWA C55O, AND BE NSF61 CERTIFIED.
5.) TAPPING SLEEVES MAY ONLY BE USED WHEN THE TAP DIAMETER IS AT LEAST ONE PIPE SIZE SMALLER THAN THE DIAMETER OF THE MAIN BEING TAPPED.
6.) VALVE BOX ALIGNMENT DEVICE SHALL BE INSTALLED IN ACCORDANCE WITH W-1 ON ALL VALVES ABOVE 1".

TAPPING SLEEVE & VALVE DETAIL

N.T.S.

1

CITY OF VENICE
ENGINEERING DEPARTMENT
401 WEST VENICE AVE.
VENICE FL 34285
(941) 486-2626
FAX (941) 480-3031

UTILITIES - GENERAL
TAPPING SLEEVE & VALVE
DATE MAY 2020
SHEET NO. U-3

This item has been electronically signed and sealed by Robert G. Fisher, P.E. on 03/01/2021 using a ***SHA*** authentication code.

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ROBERT GREGGORY FISHER LICENSE No. 58839 STATE OF FLORIDA PROFESSIONAL ENGINEER

FOR AGENCY REVIEW

Fisher Engineering
CIVIL ENGINEERING CONSULTANTS
1817 PINYON PINE DRIVE SARASOTA, FLORIDA 34240
CELL: 941-822-9731 OFFICE: 941-203-8565
EMAIL: gfisher@fisherengr.com WEB: fisherengr.com

UTILITY DETAILS

SITE AND DEVELOPMENT PLANS

Island Village Montessori School

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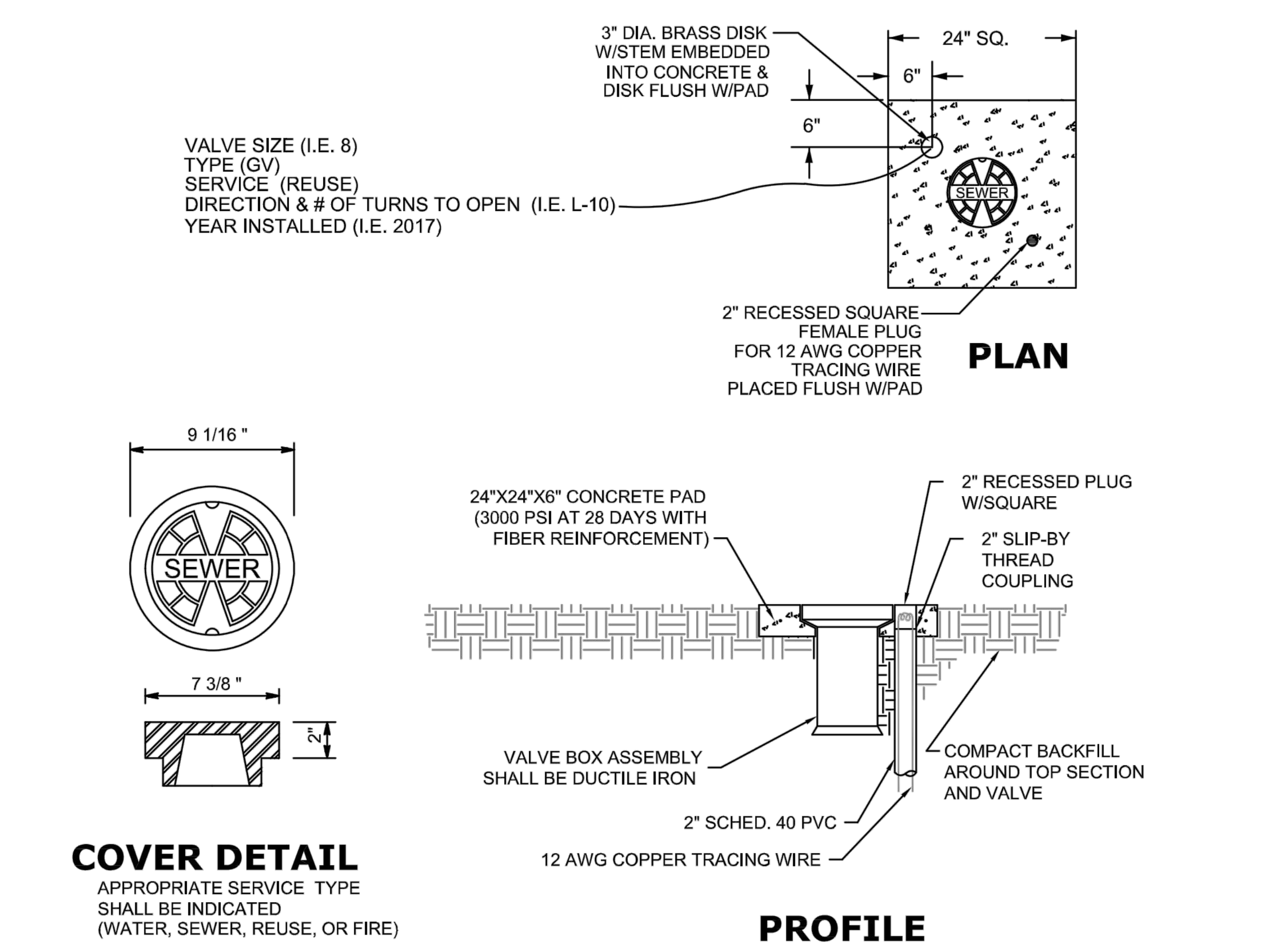
Revisions:
1 2021/02/04 COMMENTS PER COV
2021/01/06 COMMENTS PER COV

ROBERT G. FISHER P.E.
FLA. LIC. NO. 58839
C.A. NO. 31696
DATE:

Date:	01-21-2021
Scale:	SHOWN
Drawn By:	MSP
Checked By:	RGF
Project #:	20-0006

SHEET C5.01

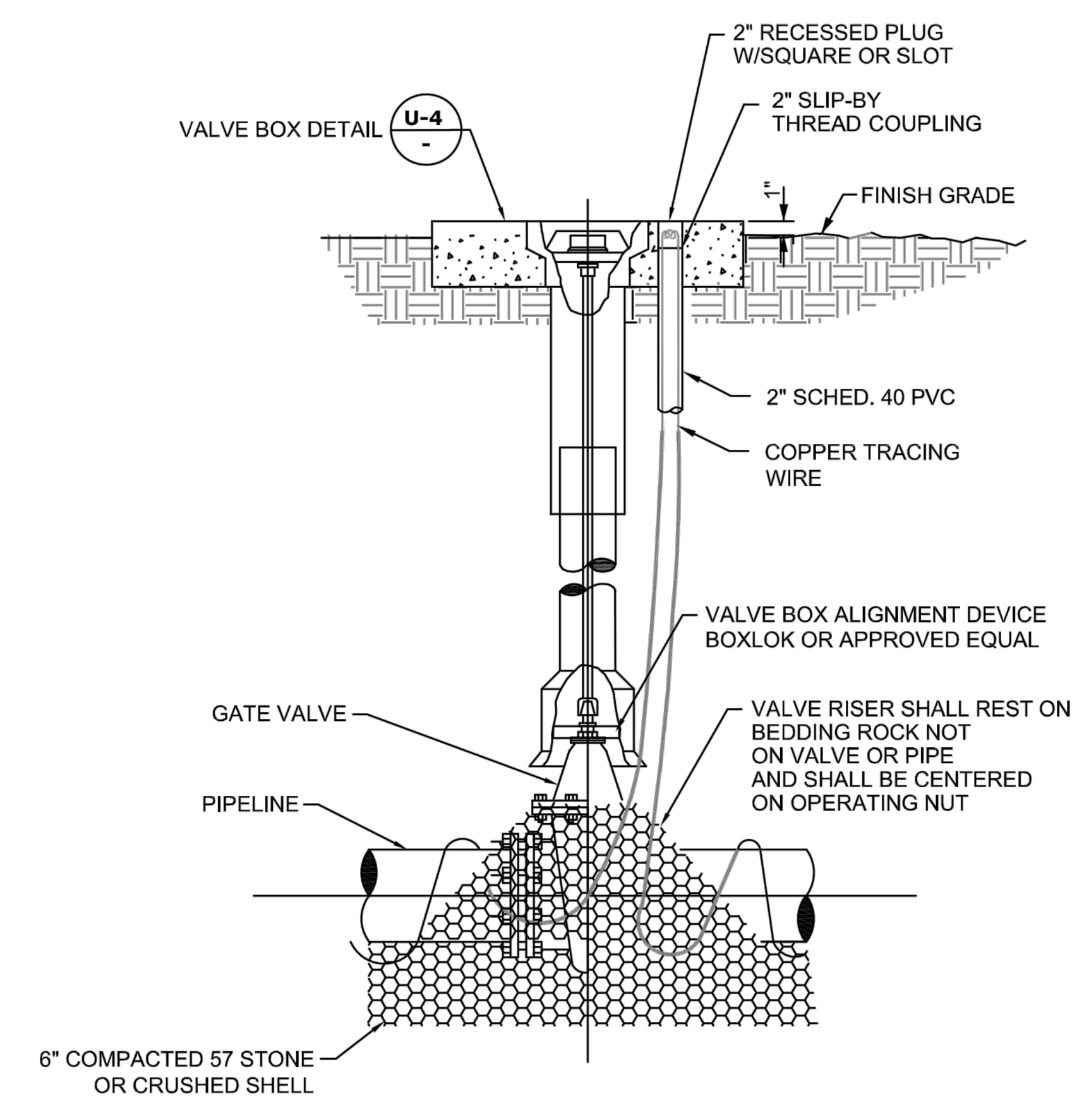


1.) PAVED AREAS: SET CONCRETE PAD AND COVER FLUSH WITH FINISHED PAVEMENT SURFACE.
2.) UNPAVED AREAS: SET PAD AND COVER 1 INCH ABOVE FINISHED GRADE.
3.) VALVES LOCATED IN DITCH AND OVER 4' DEPTH (LINE) MUST USE TRENCH ADAPTER VALVE BOX (AMERICAN FLOW CONTROL).
4.) COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE USED. IT SHALL BE COLOR CODED TO REFLECT WHAT THE PIPE CARRIES (BLUE = WATER, GREEN = SEWER, PURPLE = REUSE). CONTINUITY TEST SHALL BE PERFORMED ON ALL TRACER WIRES.
5.) PRE-CAST PADS MAY BE USED WITH CITY APPROVAL.
6.) FOR CURBED ROADWAYS: CURB SHALL BE ETCHED WITH THE LETTER "V" DIRECTLY PERPENDICULAR TO THE VALVE BOX.
7.) VALVE BOX COVERS SHALL BE PAINTED BLUE FOR POTABLE WATER, PURPLE FOR REUSE WATER, AND GREEN FOR SEWER.

VALVE BOX DETAIL

N.T.S. (1)

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	UTILITIES - GENERAL	DATE MAY 2020
	VALVE BOX	SHEET NO. U-4

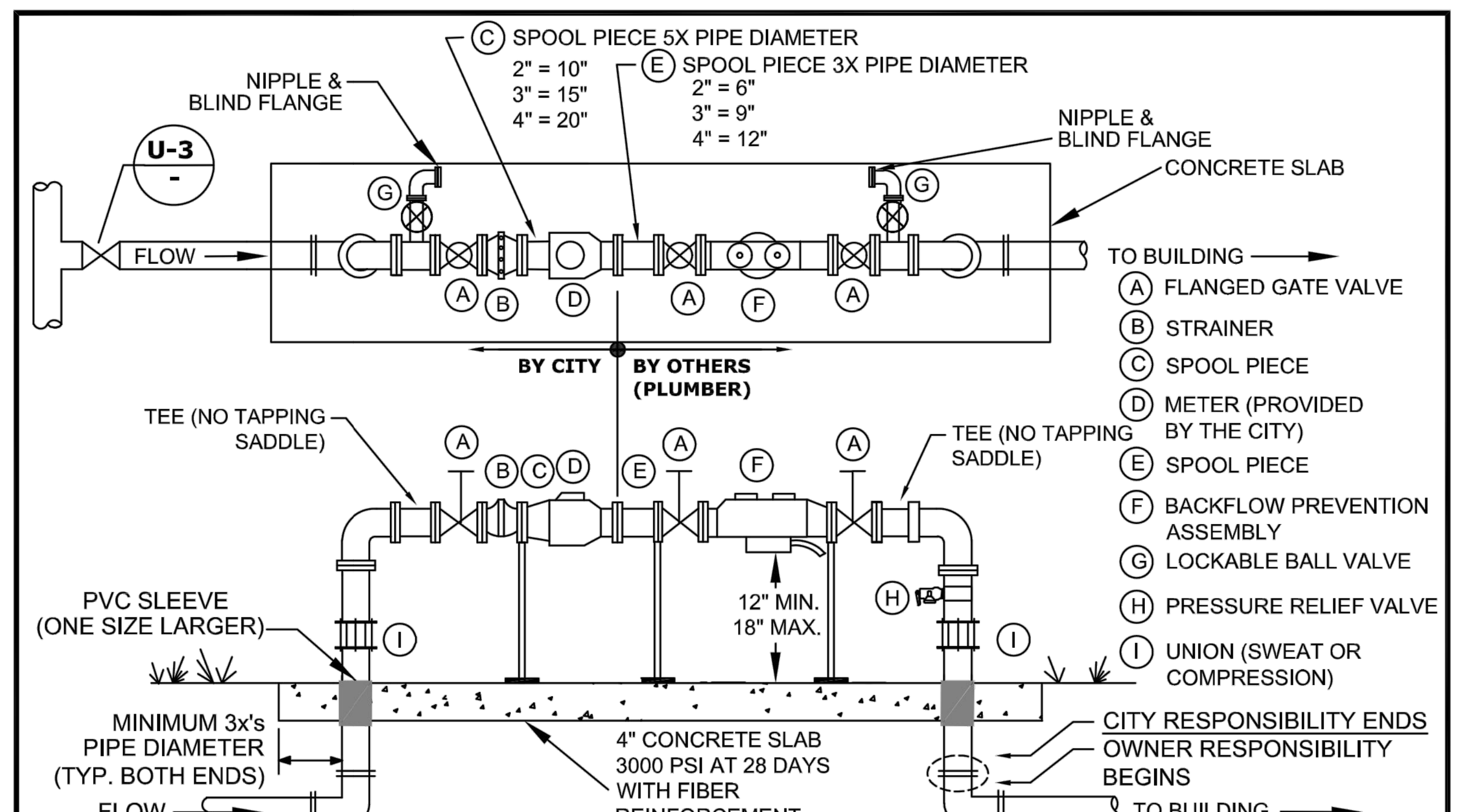


1.) GATE VALVES SHALL BE RESILIENT WEDGE-TYPE MANUFACTURED BY MUELLER, AMERICAN VALVE, OR EQUAL. ALL GATE VALVES SHALL BE FUSION BONDED EPOXY COATED (INTERIOR AND EXTERIOR) MEET ANSI/AWWA C55O, AND BE NSF61 CERTIFIED. BRANCH VALVES SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE TEE.
2.) FOR VALVES LARGER THAN 12" IN USE BUTTERFLY STYLE VALVE.
3.) VALVE SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4.) COPPERHEAD TRACING WIRE PART #12 AWG OR EQUAL SHALL BE USED. IT SHALL BE COLOR CODED TO REFLECT WHAT THE PIPE CARRIES. (BLUE = WATER, PURPLE = REUSE)
5.) FOR CURBED ROADWAYS: CURB SHALL BE ETCHED WITH THE LETTER "V" DIRECTLY PERPENDICULAR TO THE VALVE BOX.
6.) ALL BOLTS AND HARDWARE SHALL BE 316 SS.

GATE VALVE DETAIL

(WATER AND REUSE ONLY)
N.T.S. (1)

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	UTILITIES - WATER	DATE MAY 2020
	GATE VALVE	SHEET NO. W-1



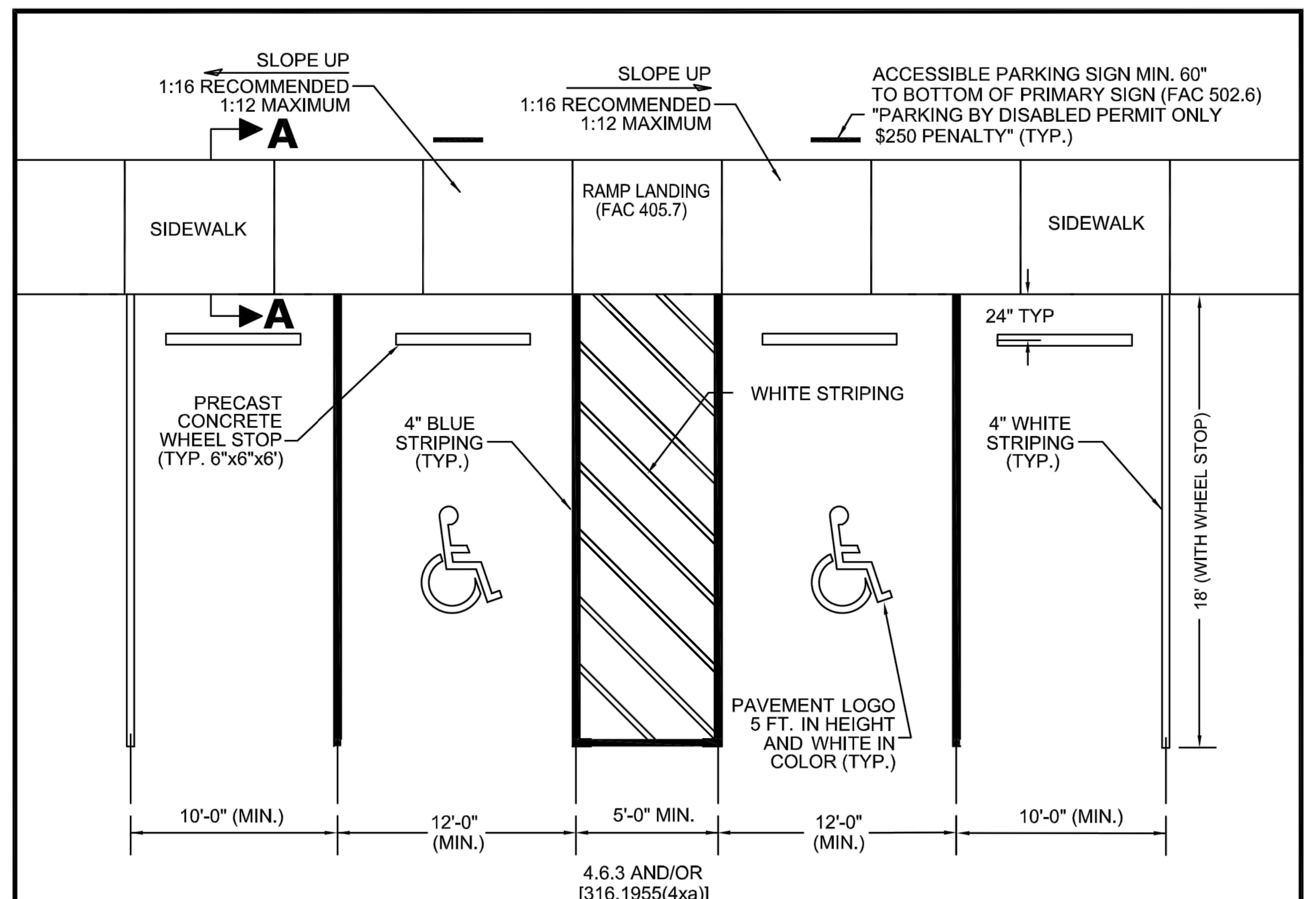
1.) EITHER 90°-DEGREE OR 45°-DEGREE FITTINGS MAY BE USED WITH THE REQUIRED LENGTH OF RESTRAINED JOINT FITTINGS.
2.) BACKFLOW PREVENTION ASSEMBLY TYPE SHALL BE DETERMINED BY THE CITY OF VENICE UTILITIES DEPARTMENT'S MOST CURRENT CROSS-CONNECTION CONTROL PROGRAM MANUAL, AND SHALL BE INSTALLED IMMEDIATELY FOLLOWING THE METER.
3.) ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE APPROVED BY THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH AND/OR ASSE 1013.
4.) ALL CONCRETE PIPE PENETRATIONS SHALL BE PROTECTED WITH A PVC SLEEVE, ONE SIZE LARGER THAN RISER PIPE.
5.) VALVES SHALL BE FULL PORTED FULL FLOW BALL VALVES OR RESILIENT WEDGE NON-RISING STEM GATE VALVES.
6.) PIPE BETWEEN TAP & ISOLATION VALVE SHALL BE C900 PVC.
7.) THE WATER METER SHALL MATCH THE BACKFLOW AND ASSEMBLY PIPE SIZE.
8.) METERS 1-1/2" AND UP WILL HAVE FLANGES. LAY LENGTHS MUST BE VERIFIED PRIOR TO CONSTRUCTION OF ASSEMBLIES.
9.) ASSEMBLIES 2" AND UP REQUIRE ONE UNION ON THE UPSTREAM RISER.
10.) ASSEMBLIES 1-1/2" AND SMALLER REQUIRE TWO UNIONS.
11.) METERS 1-1/2" AND SMALLER REQUIRE A LOCKABLE CURB STOP.
12.) NO SPOOL PIECE REQUIRED FOR 3/4", 1", OR 1 1/2".
13.) ALL COMMERCIAL AND MULTI FAMILY UNIT METERS MUST BE ABOVE GRADE. REUSE METERS 2" AND LESS MAY BE BELOW GROUND.
14.) BACKFLOW PREVENTION ASSEMBLY AND BYPASS ARE NOT REQUIRED FOR REUSE METER ONLY.
15.) BACKFLOW PREVENTION ASSEMBLIES SHALL ONLY BE BY-PASSED IF A TEMPORARY RP IS INSTALLED ON BY-PASS.
16.) NO BRANCH OR TEE SERVICE CONNECTIONS, OTHER THAN THE UTILITIES METER BY-PASS RETURN TEE, SHALL EXIST BETWEEN THE WATER METER AND BACKFLOW PREVENTER.
17.) THE ENGINEER OF RECORD SHALL SUBMIT METER SIZING CALCULATIONS BASED ON SERVICE DEMAND PER AWWA M-22 AND SUBJECT TO APPROVAL BY THE UTILITY DEPARTMENT.
18.) PARALLEL BACKFLOW ASSEMBLY MAY BE PERMITTED TO ALLOW FOR UNINTERRUPTED SERVICE AND SHALL PROVIDE THE SAME DEGREE OF PROTECTION OR GREATER.
19.) NO PVC SHALL BE PERMITTED ON THE CITY SIDE.

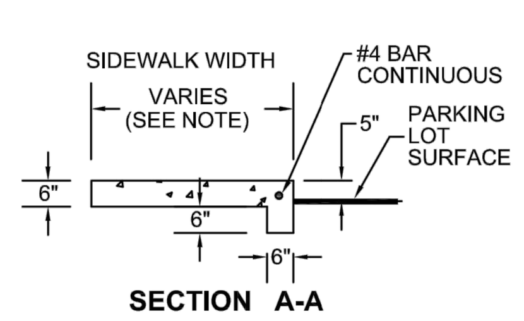
METER SIZE (IN.)	BY-PASS SIZE
3/4"	NO BYPASS
1"	NO BYPASS
1 1/2"	1"
2"	1 1/2"
3"	2"
4"	3"

WATER & REUSE METER & BACKFLOW PREVENTION ASSEMBLY

ABOVE GROUND COMMERCIAL/MULTI-UNIT/SINGLE SERVICE/MASTER METER
(WITH BY-PASS AROUND METER ONLY) N.T.S. (1)

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	UTILITIES - WATER	DATE MAY 2020
	WATER & REUSE METER & BACKFLOW	SHEET NO. W-4





1.) IF AN ADJACENT SIDEWALK IS A MINIMUM OF SEVEN (7) FEET IN WIDTH AND PROVIDES A 5" INCH CURB, THE SIDEWALK MAY SERVE AS THE WHEEL STOP AND THE STANDARD PARKING SPACE MAY BE 16' DEEP.
2.) IF AN ADJACENT LANDSCAPE AREA IS A MINIMUM OF 3.5' PER ABUTTING PARKING SPACE AND PROTECTED BY CONCRETE CURBING OR WHEEL STOP, 2 FEET OF THE REQUIRED DEPTH MAY ENCROACH INTO THE LANDSCAPE AREA. IF THE REQUIRED DEPTH ENCROACHES INTO THE LANDSCAPE AREA, THE WHEEL STOP MUST BE PLACED AT THE EDGE OF PAVEMENT.
3.) ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL BE CONSTRUCTED WITH SURFACE SLOPES NOT TO EXCEED 1:50 (2%) IN ALL DIRECTIONS AND THE GROUND SURFACE SHALL BE STABLE, FIRM AND SLIP RESISTANT.
4.) NO COLORS OTHER THAN WHITE AND BLUE SHALL BE USED FOR PARKING SPACE PAVEMENT MARKINGS.
5.) ALL DIMENSIONS SHOWN ARE TO THE CENTERLINE OF PAVEMENT MARKINGS.

ACCESSIBLE & TYPICAL PARKING SPACE DETAIL (1)

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	ENGINEERING	DATE MAY 2020
	ACCESSIBLE & TYPICAL PARKING	SHEET NO. ENG-5

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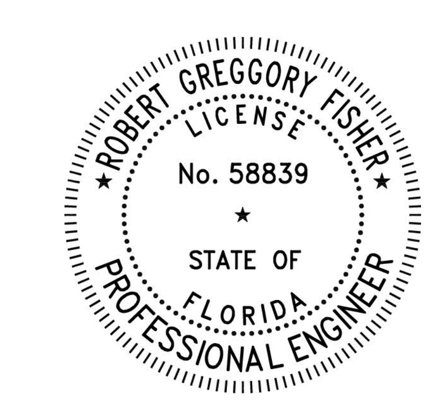

FOR AGENCY REVIEW

Fisher Engineering
CIVIL ENGINEERING CONSULTANTS
1817 PINYON PINE DRIVE SARASOTA, FLORIDA 34240
CELL: 941-822-9731 OFFICE: 941-203-8565
EMAIL: gfisher@fisherengr.com WEB: fisherengr.com

UTILITY DETAILS

SITE AND DEVELOPMENT PLANS

Island Village Montessori School

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Revisions:
2021/02/04 COMMENTS PER COV
2021/01/06 COMMENTS PER COV (1)

ROBERT G. FISHER P.E.
FLA. LIC. NO. 58839
C.A. NO. 31696
DATE:

Date:	01-21-2021
Scale:	SHOWN
Drawn By:	MSP
Checked By:	RGF
Project #:	20-0006

SHEET C5.01A

Section 2721

Engineered Surface Drainage Products

GENERAL
PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

MATERIALS
The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for structure sizes 8", 10", 12", 15", 18", 24", 30" and 36" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

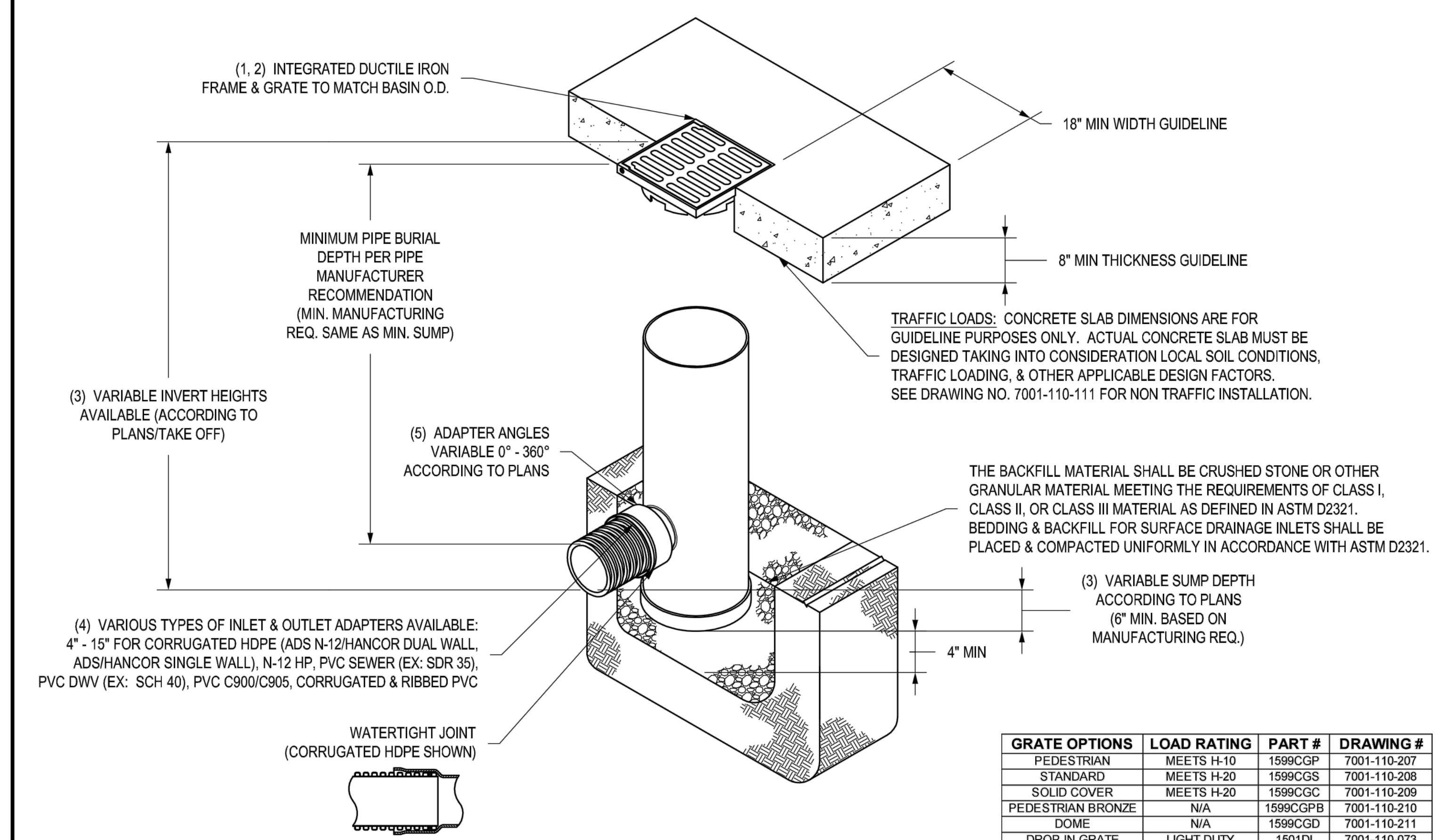
INSTALLATION
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

DRAWN BY CJA | DATE 3-10-00 | REVISED BY NMH | DATE 02-21-18 | DWG SIZE A | MATERIAL | PROJECT NO./NAME | SCALE 1:1 | SHEET 1 OF 1

Nyloplast — 3130 VERONA AVE, BUFORD, GA 30518, PHN (770) 932-2443, FAX (770) 932-2490, www.nyloplast-us.com

TITLE: 8 IN - 36 IN DRAIN BASIN SPECIFICATIONS | DWG NO. 7001-110-011 | REV J

NYLOPLAST 15" DRAIN BASIN: 2815AG _ _ X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1599CGP	7001-110-207
STANDARD	MEETS H-20	1599CGS	7001-110-208
SOLID COVER	MEETS H-20	1599CGC	7001-110-209
PEDESTRIAN BRONZE	N/A	1599CGPB	7001-110-210
DOME	N/A	1599CGD	7001-110-211
DROP IN GRATE	LIGHT DUTY	1501DI	7001-110-073

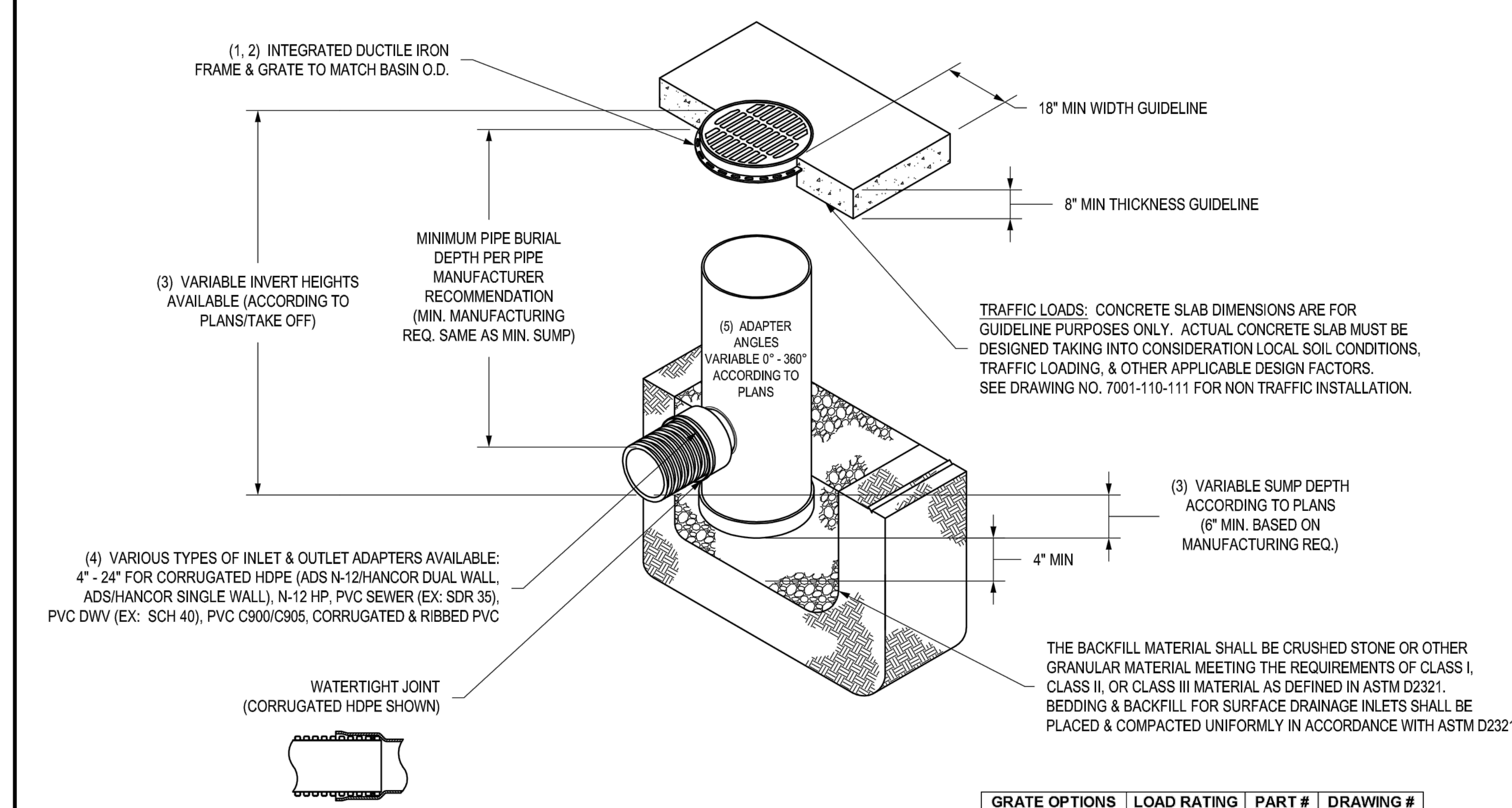
1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

DRAWN BY EBC | DATE 03-30-06 | REVISED BY NMH | DATE 03-14-16 | DWG SIZE A | MATERIAL | PROJECT NO./NAME | SCALE 1:25 | SHEET 1 OF 1

Nyloplast — 3130 VERONA AVE, BUFORD, GA 30518, PHN (770) 932-2443, FAX (770) 932-2490, www.nyloplast-us.com

TITLE: 15 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL | DWG NO. 7001-110-190 | REV E

NYLOPLAST 24" DRAIN BASIN: 2824AG _ _X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	2499CGP	7001-110-216
STANDARD	MEETS H-20	2499CGS	7001-110-217
SOLID COVER	MEETS H-20	2499CGC	7001-110-218
DOME	N/A	2499CGD	7001-110-219
DROP IN GRATE	LIGHT DUTY	2401DI	7001-110-075

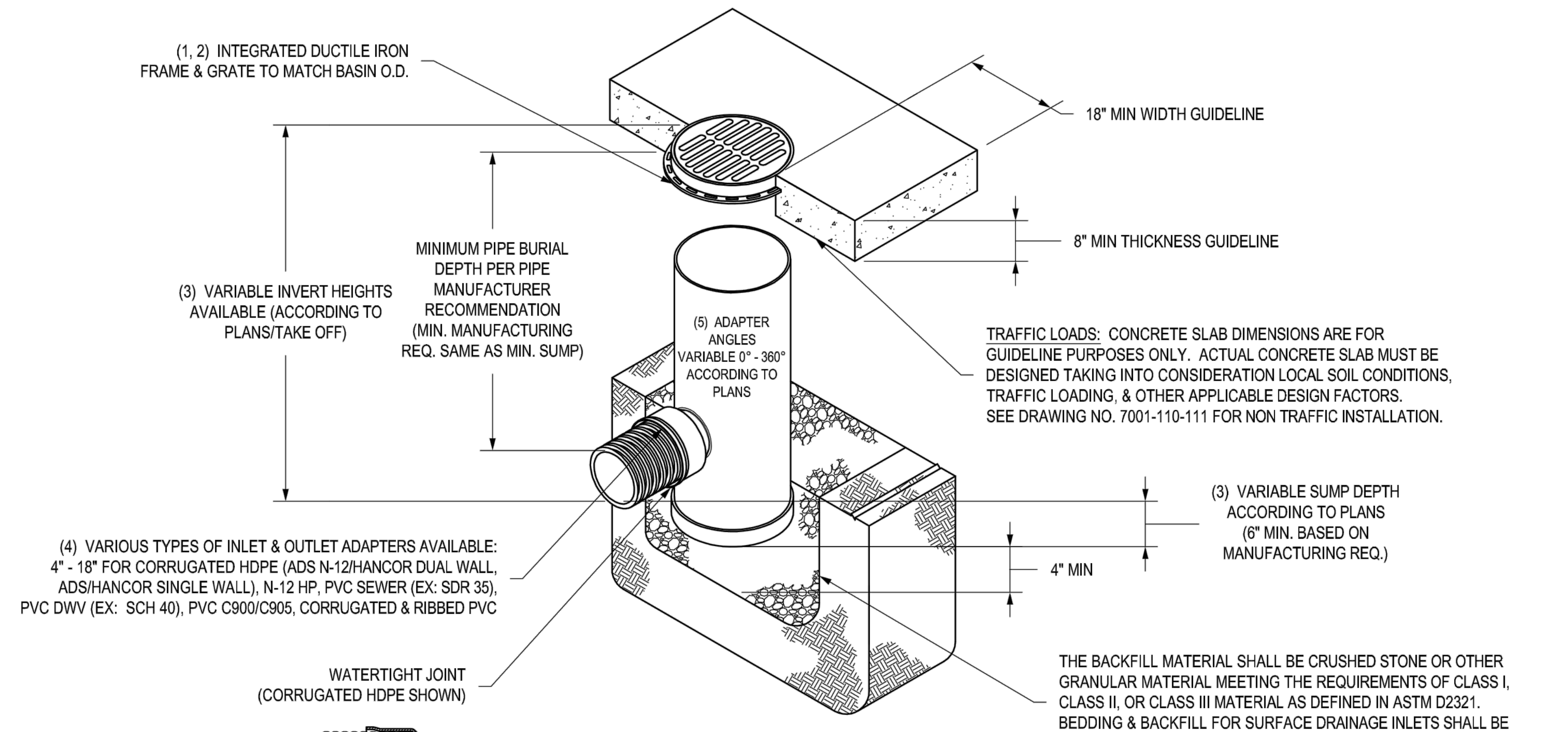
1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

DRAWN BY EBC | DATE 04-03-06 | REVISED BY NMH | DATE 03-14-16 | DWG SIZE A | MATERIAL | PROJECT NO./NAME | SCALE 1:40 | SHEET 1 OF 1

Nyloplast — 3130 VERONA AVE, BUFORD, GA 30518, PHN (770) 932-2443, FAX (770) 932-2490, www.nyloplast-us.com

TITLE: 24 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL | DWG NO. 7001-110-192 | REV E

NYLOPLAST 18" DRAIN BASIN: 2818AG _ _ X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1899CGP	7001-110-212
STANDARD	MEETS H-20	1899CGS	7001-110-213
SOLID COVER	MEETS H-20	1899CGC	7001-110-214
DOME	N/A	1899CGD	7001-110-215
DROP IN GRATE	LIGHT DUTY	1801DI	7001-110-074

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

DRAWN BY EBC | DATE 04-03-06 | REVISED BY NMH | DATE 03-14-16 | DWG SIZE A | MATERIAL | PROJECT NO./NAME | SCALE 1:30 | SHEET 1 OF 1

Nyloplast — 3130 VERONA AVE, BUFORD, GA 30518, PHN (770) 932-2443, FAX (770) 932-2490, www.nyloplast-us.com

TITLE: 18 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL | DWG NO. 7001-110-191 | REV E

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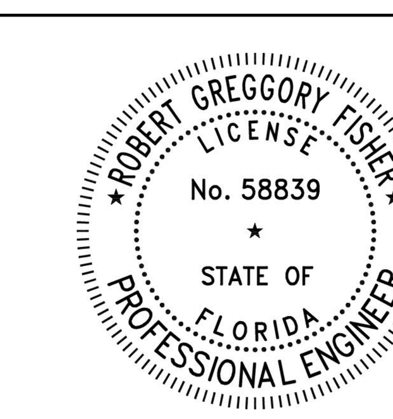

Fisher Engineering
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STORMWATER DETAILS

SITE AND DEVELOPMENT PLANS

Island Village Montessori School

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1 2021/02/04 COMMENTS PER COV
2021/01/06 COMMENTS PER COV

ROBERT G. FISHER P.E.
FLA. LIC. NO. 58839
C.A. NO. 31696
DATE:

Date:	01-21-2021
Scale:	SHOWN
Drawn By:	MSP
Checked By:	RGF
Project #:	20-0006

SHEET C5.02