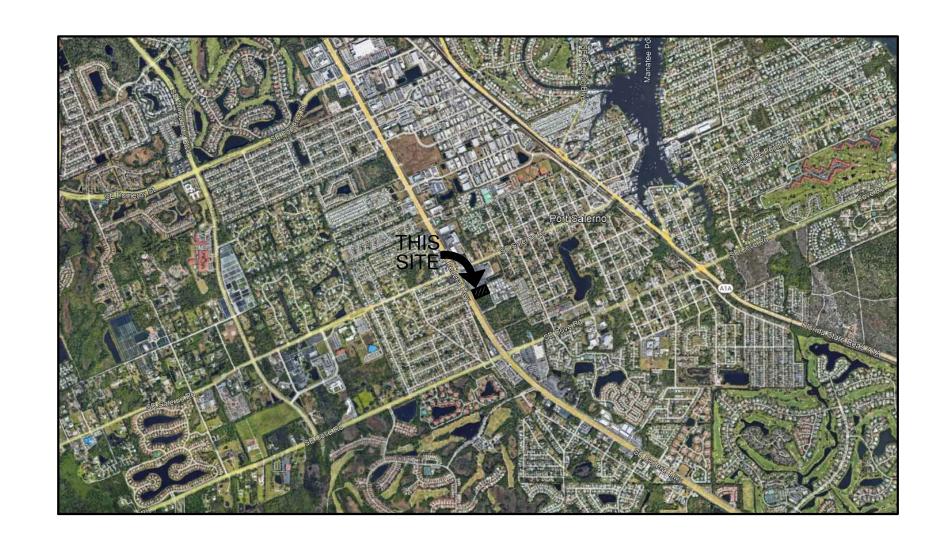
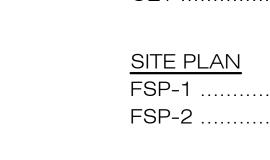
WATERS CAR WASH MARTIN COUNTY, FLORIDA

GENERAL NOTES:

- THE LOCATION OF ALL EXISTING UTILITIES ON THE PLAN IS APPROXIMATE. THE CONTRACTOR SHALL LOCATE AND EXPOSE ALL EXISTING UTILITIES TO BE CONNECTED SUFFICIENTLY AHEAD OF CONSTRUCTION TO ALLOW REDESIGN BY THE ENGINEER IF SUCH UTILITIES ARE FOUND TO BE DIFFERENT THAN SHOWN ON THESE PLANS.
- 2. THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND OTHER IMPROVEMENTS SHOWN ON THESE PLANS AND OTHER UTILITIES AND OTHER IMPROVEMENTS NOT SHOWN. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR REPAIRS OF UTILITIES AND OTHER IMPROVEMENTS DAMAGED DURING CONSTRUCTION, AND SHALL MAINTAIN SUFFICIENT PROTECTION TO ALL UTILITIES REQUIRED TO PROTECT THEM FROM DAMAGE AND TO PROTECT THE PUBLIC DURING CONSTRUCTION.
- 3. CONTRACTOR SHALL CONTACT MARTIN COUNTY ENGINEERING DEPARTMENT 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
- 4. CONTRACTOR SHALL NOTIFY SDA CONSULTING ENGINEERS AT (954) 943-9433 AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
- 5. THE CONTRACTOR SHALL NOTIFY FLORIDA POWER & LIGHT CO., ALL LOCAL TELECOMMUNICATIONS COMPANIES, THE LOCAL WATER AND SEWER UTILITY COMPANIES AND ANY OTHER UTILITY COMPANY WHICH MAY HAVE THEIR UTILITIES WITHIN THE CONSTRUCTION AREAS BEFORE BEGINNING CONSTRUCTION.
- 6. A PRE-CONSTRUCTION MEETING IS TO BE HELD BETWEEN MARTIN COUNTY, ENGINEER OF RECORD AND CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 7. THE CONTRACTOR MUST NOTIFY MARTIN COUNTY UTILITY DEPARTMENT 48 HOURS PRIOR TO TYING INTO ANY EXISTING STRUCTURES AND HAVE AN INSPECTOR PRESENT.
- PLANS AND SPECIFICATIONS REQUIRE THAT COMPACTED BACKFILL BE PLACED ALONG SIDE OF AND OVER ALL UTILITIES. THE ENGINEER MAY REQUIRE THAT COMPACTION TESTS BE TAKEN TO VERIFY BACKFILL COMPACTION. THE COSTS OF SUCH COMPACTION TESTS WILL BE BORNE BY THE OWNER.
- ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988
- 10. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND (INCLUDING SPRINKLERS) SHALL BE PLACED BENEATH THE PAVEMENT AND ITS EDGE PRIOR TO THE CONSTRUCTION OF PAVEMENT. THE PAVEMENT SHALL NOT BE CUT WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- 11. ALL MATERIALS AND CONSTRUCTION WITHIN THE FDOT R/W SHALL CONFORM TO THE LATEST FDOT STANDARDS AND SPECIFICATIONS.
- 12. ALL LABOR, MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY MARTIN COUNTY ENGINEERING DEPARTMENT AND THE PLANS AND CONSTRUCTION SPECIFICATIONS. WHERE CONFLICTS OR OMISSIONS EXIST, MARTIN COUNTY ENGINEERING DEPARTMENT STANDARDS SHALL DICTATE. SUBSTITUTIONS AND DEVIATIONS FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.
- 13. CONSTRUCTION INSPECTION WILL BE PERFORMED BY THE ENGINEER AND IS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION, AND AT LEAST 48 HOURS BEFORE REQUIRING INSPECTION OF EACH AND EVERY PHASE OF WORK.
- 14. CONSTRUCTION SURVEYING WILL BE PERFORMED BY THE ENGINEER OR SURVEYORS DESIGNATED BY THE OWNER. THE CONTRACTOR SHALL CONTACT THE SURVEYOR NOT LESS THAN 48 HOURS BEFORE THE SURVEYORS ARE NEEDED ON-SITE TO STAKE OUT ANY PHASE OF WORK. THE CONTRACTOR SHALL ASSUME THE RESPONSIBILITY OF PROTECTING ALL SURVEY STAKES AND MONUMENTS. REPLACEMENT COSTS OF ALL RESTAKES SHALL BE BORNE BY THE CONTRACTOR.
- 15. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF APPROVED CONSTRUCTION PLANS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION.
- 16. THE CONTRACTOR SHALL MAINTAIN A COPY OF ALL CURRENT GOVERNMENTAL AGENCY/CITY/COUNTY/STATE PERMITS AND APPROVALS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL ADHERE TO ALL CONDITIONS OF THESE PERMITS AND APPROVALS, AS REQUIRED.
- 17. SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. THE DRAWINGS WILL THEN BE FORWARDED BY THE CONTRACTOR TO MARTIN COUNTY ENGINEERING DEPARTMENT, AND/OR MARTIN COUNTY UTILITY DEPARTMENT, AS APPLICABLE
- 18. THE CONTRACTOR RESPONSIBLE FOR MAINTENANCE OF TRAFFIC SHALL ENSURE THAT THE MAINTENANCE OF TRAFFIC FOR THE PROJECT CONFORMS WITH FDOT STANDARD INDEX SERIES 600, OR APPLICABLE INDEX FOR WORK BEING PERFORMED.
- 19. ALL MOT SIGNS SHALL BE POST MOUNTED AND LANE CLOSURE SIGNS SHALL BE COVERED WHEN LANES ARE NOT CLOSED. NO LANES CLOSURES ARE ALLOWED BETWEEN 7:00 AM AND 9:00 AM OR BETWEEN 4:00 PM AND 6:00 PM., PEAK TRAFFIC HOURS.
- 20. THE PROPOSED WORK HAS BEEN DESIGNED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, COUNTY AND CITY CODES AND REGULATIONS HAVING JURISDICTION. IF ANY DISCREPANCIES EXIST BETWEEN THE PLANS/SPECIFICATIONS PREPARED BY THE DESIGNER AND THE COUNTY CODE AND/OR THE COUNTY STANDARD DETAILS, THE LATER SHALL GOVERN OR THE MOST STRINGENT.
- 21. ALL VEGETATION, MUCK, AND ANY DELETERIOUS MATERIAL WITHIN THE ROW LIMITS OF ALL STREETS AND ALLEYS AND REQUIRED OFF-STREET PARKING AREAS MUST BE REMOVED AND REPLACED WITH CLEAN FILL MATERIAL, FREE OF STUMPS, LARGE ROOTS OR OTHER MATTER NOT SUITABLE FOR INCLUSION IN ROADWAY FILL.
- 22. THE FINISH SURFACE OF BASE COURSE AND THAT OF THE WEARING SURFACE SHALL NOT VARY MORE THAN .04 FOOT FROM THE APPROVED GRADING PLAN (TEMPLATE) AND ALL AREAS SHALL BE GRADED TO DRAIN. ANY IRREGULARITIES EXCEEDING THIS LIMIT SHALL BE CORRECTED.



LOCATION MAP N.T.S.



INDEX OF SHEETS

. COVER SHEET

. FINAL SITE PLAN FINAL SITE PLAN DETAILS

. GRADING AND DRAINAGE PLAN . WATER AND SEWER PLAN . SITE LIGHTING PLAN

. STRIPING AND SIGNAGE PLAN . EROSION CONTROL PLAN .. FIRE ACCESS PLAN

. PAVING, GRADING AND DRAINAGE DETAILS

.. WATER AND SEWER DETAILS . LIFT STATION DETAILS

. LANDSCAPE PLAN ... LANDSCAPE DETAILS . LANDSCAPE NOTES

SURVEY

.. TOPOGRAPHIC BOUNDARY SURVEY



1. PRIOR TO BEGINNING ANY WORK, CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES THAT HAVE FACILITIES WITHIN THE PROJECT AREA. 2. THE ABOVE NOTICE SHALL APPEAR ON THE COVER SHEET OF ALL CONSTRUCTION

1283A.00

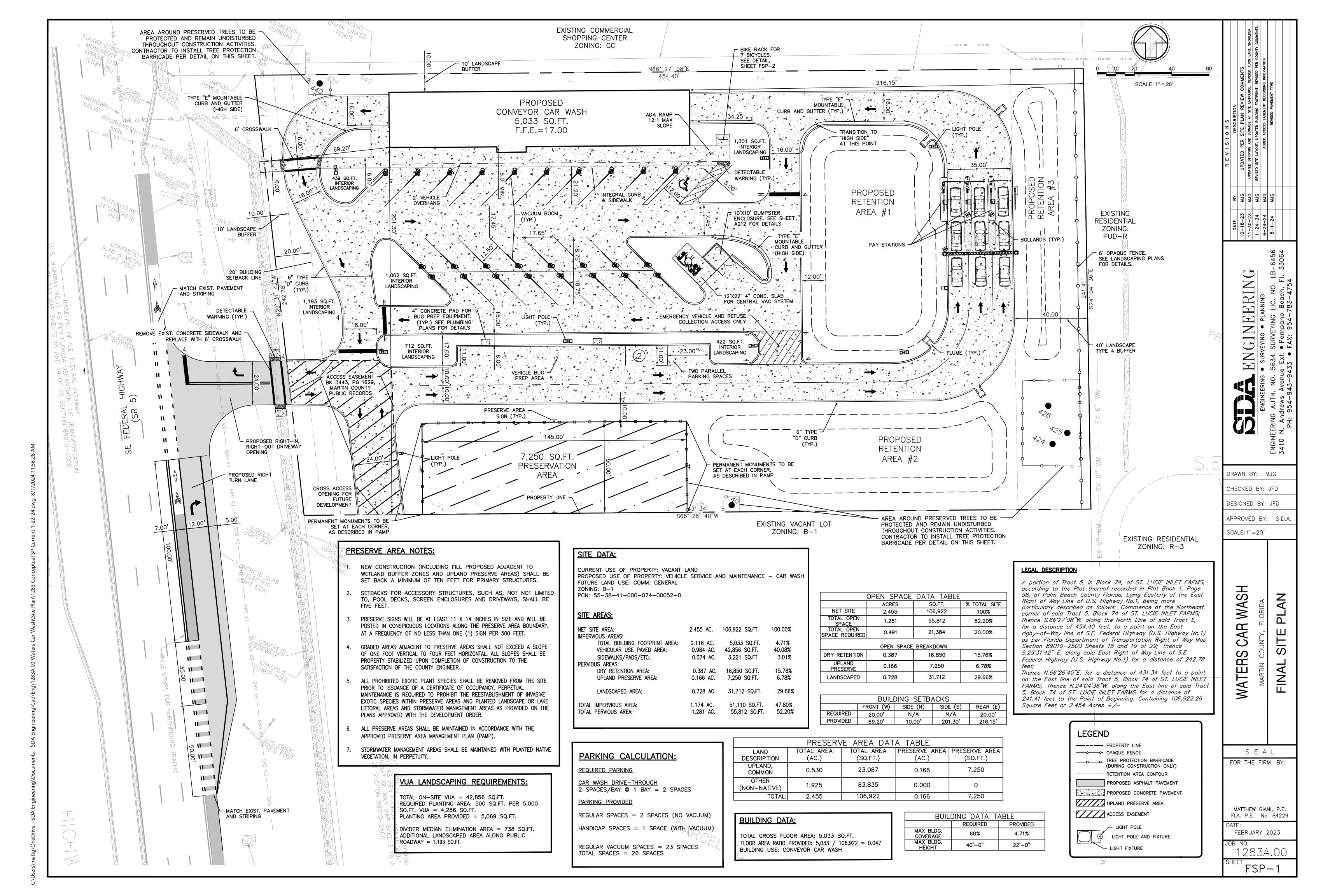
REVISIONS 1-16-24 MJG UPDATED SHEET INDEX, RENUMBERED SHEET

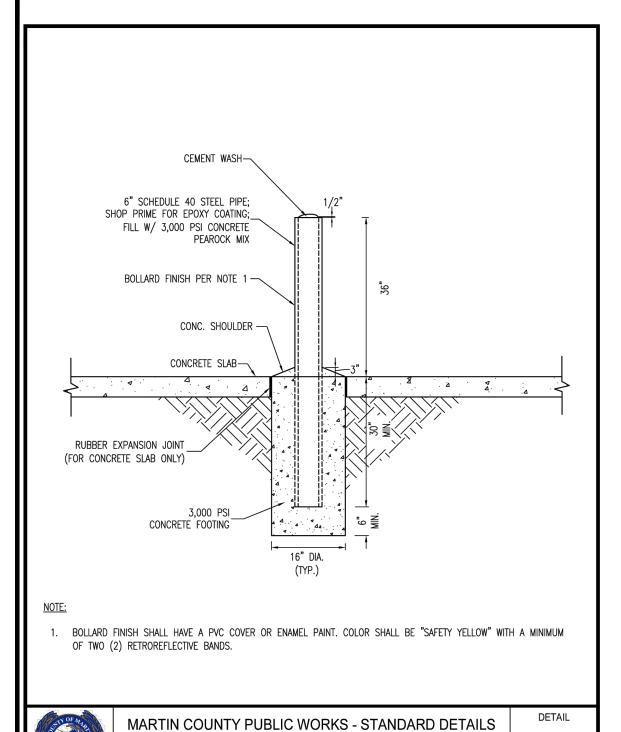
ENGINEERING ● SURVEYING ● PLANNING

ENGINEERING AUTH. NO. 5634 SURVEYING LIC. NO. LB-6456 3410 N. Andrews Avenue Ext. • Pompano Beach, Fl. 33064 PH: 954-943-9433 • FAX: 954-783-4754

FOR THE FIRM, BY:

MATTHEW GIANI, P.E. FLA. P.E. No. 84229



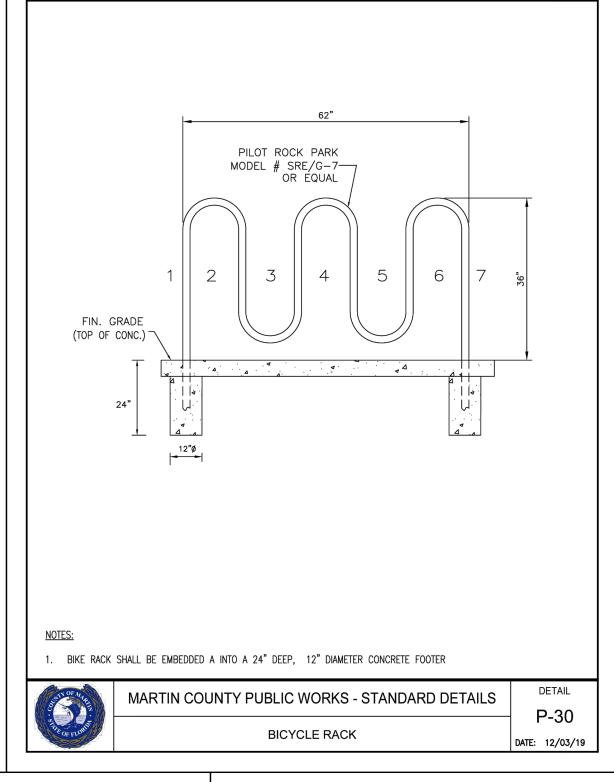


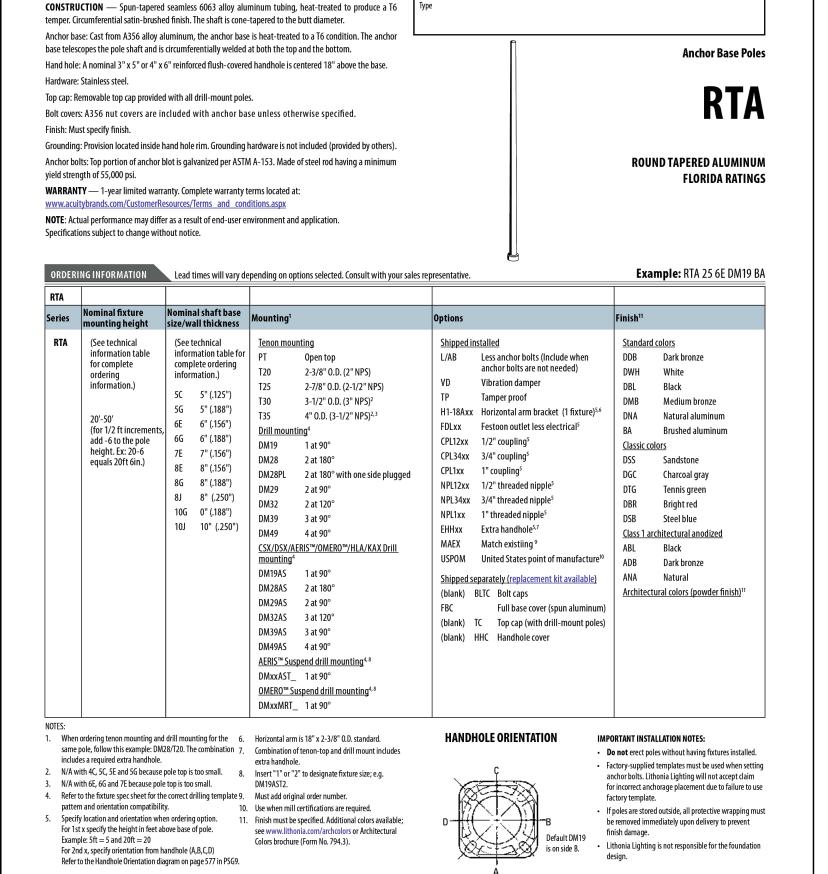
FIXED BOLLARD

LITHONIA LIGHTING® Catalog Number

INTENDED USE — Round tapered aluminum general purpose pole for up to 30 foot mounting heights.

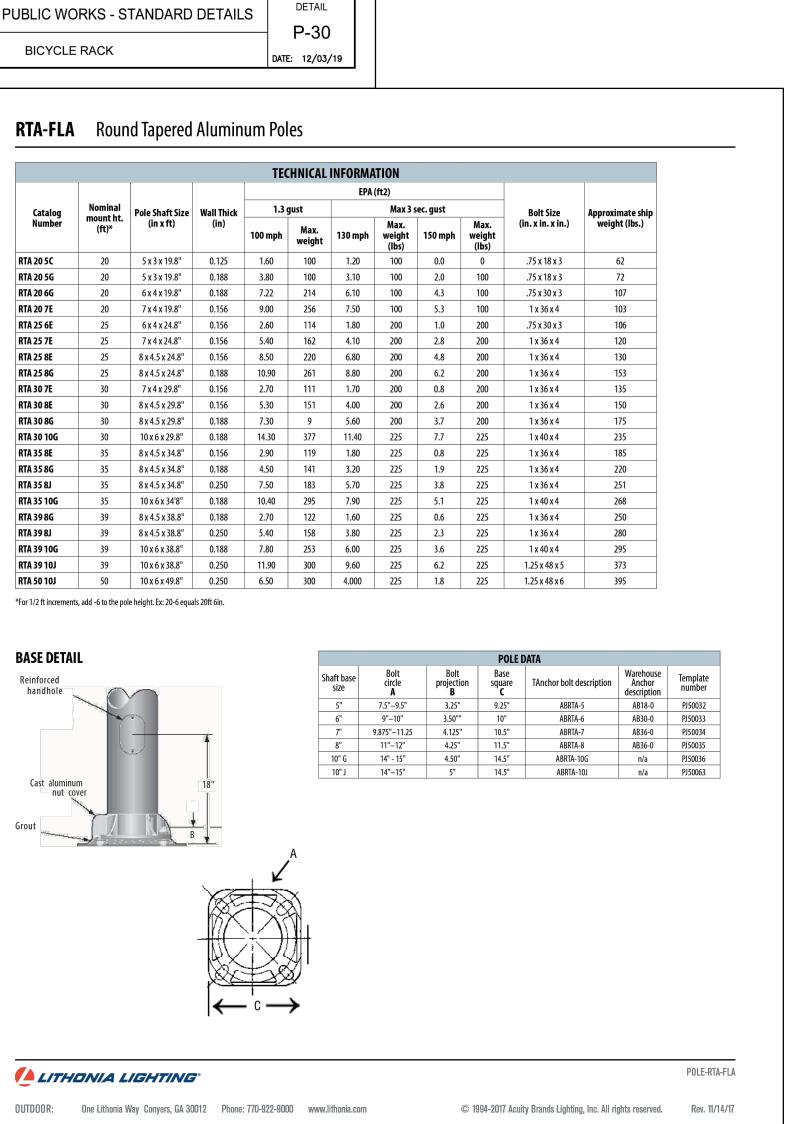
FEATURES & SPECIFICATIONS





P-15

POLE-RTA-FLA



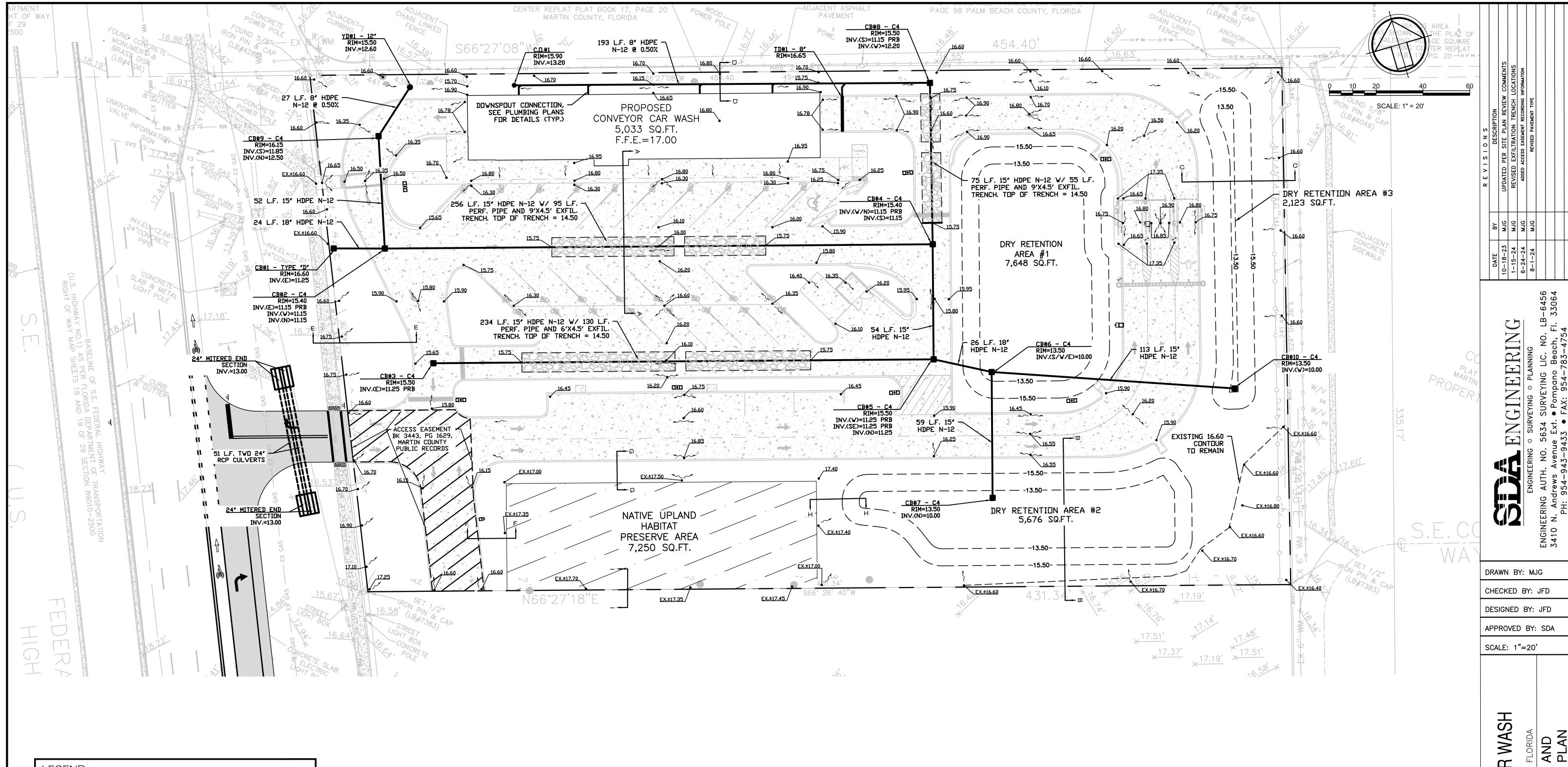
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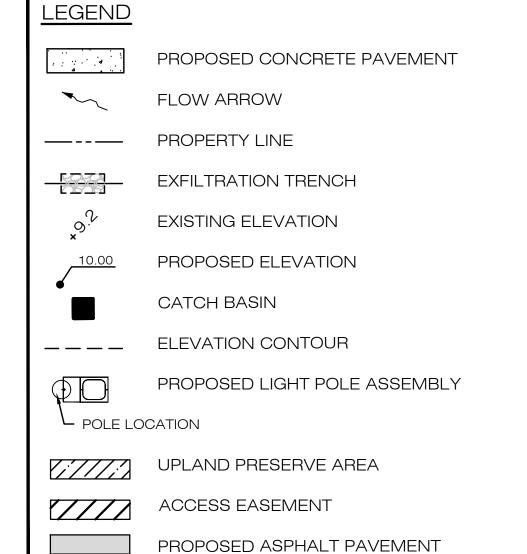
MATTHEW GIANI, P.E. FLA. P.E. No. 84229

JANUARY 2024

1283A.00

 $^{\prime}$ FSP-2





NOTES:

- 1. ALL GRADES SHOWN IN NAVD88.
- 2. CONVERSION FROM NGVD29 TO NAVD88 = -1.47 FT
- 3. FLOOD ZONE X
- 4. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS IS APPROXIMATE AND HAS NOT BEEN VERIFIED. OTHER UTILITIES WHICH ARE NOT SHOWN ON THE PLANS MAY BE PRESENT. THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES WITHIN THE PROXIMITY OF THE SCOPE OF WORK PRIOR TO THE START OF CONSTRUCTION. ALL EXISTING UTILITIES SHALL REMAIN AND BE PROTECTED UNLESS OTHERWISE NOTED ON THE PLANS.
- 5. ALL STORMWATER MANAGEMENT AREAS ARE TO BE MAINTAINED WITH PLANTED VEGETATION, IN PERPETUITY.
- 6. MINIMUM SITE PERIMETER ELEVATION = 16.60 NAVD.

WATERS CAR WASH

FOR THE FIRM:

FOR THE FIRM,

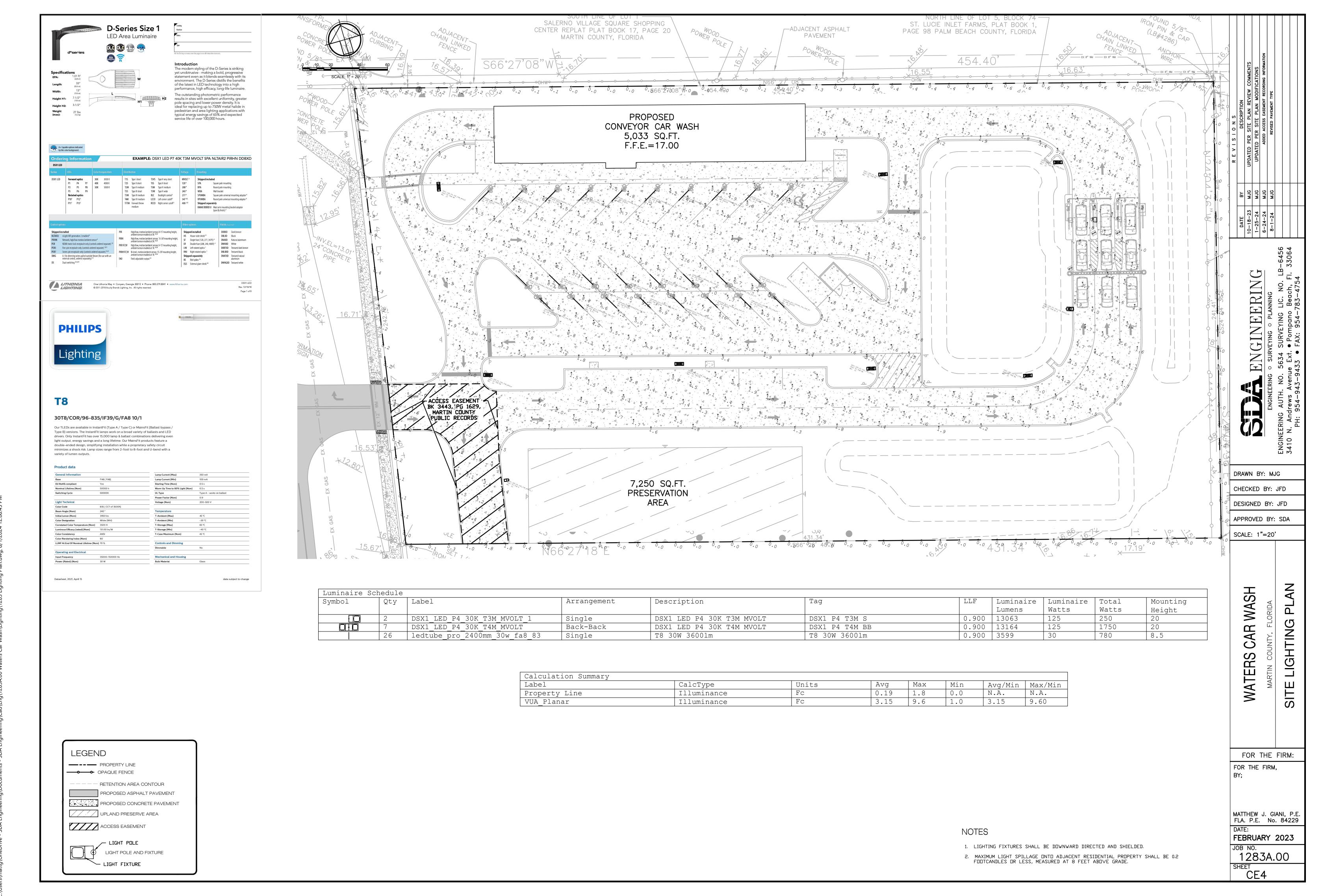
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MATTHEW J. GIANI, P.E. FLA. P.E. No. 84229

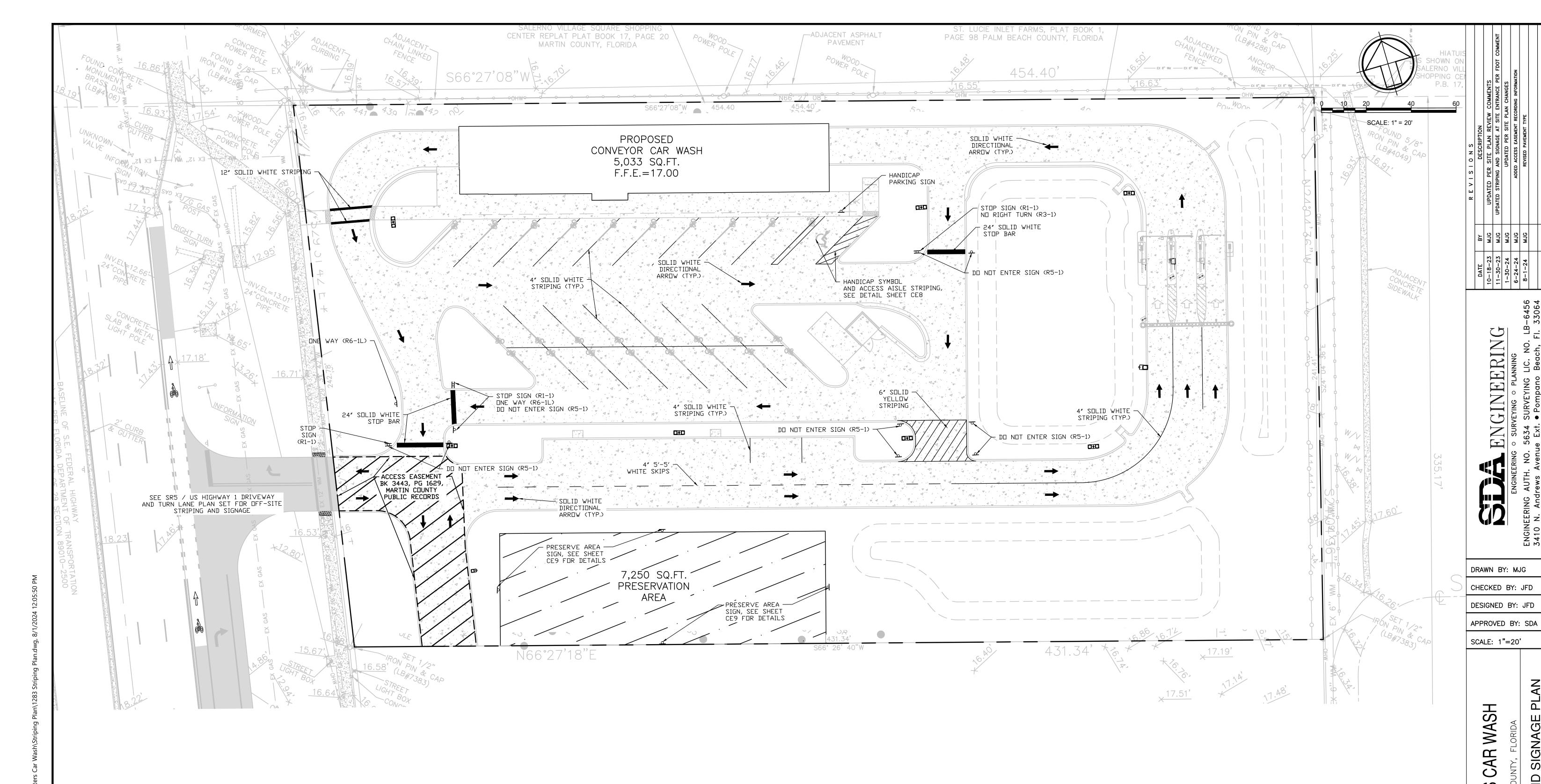
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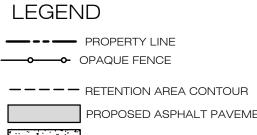


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PAVEMENT MARKING AND SIGNAGE SPECIFICATIONS:

- ALL ON-SITE SIGNING AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MARTIN COUNTY ENGINEERING DESIGN HANDBOOK AND CONSTRUCTION DETAILS TRAFFIC ENGINEERING STANDARDS.
- . ALL OFF—SITE SIGNING AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE
- 3. ALL THERMOPLASTIC PAVEMENT MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 4. ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED DESIGN SHALL BE REMOVED. METHOD OF REMOVAL TO BE APPROVED BY THE ENGINEER PRIOR TO ANY WORK IN THIS AREA.
- 5. PROVIDE FOR TWO (2) BLUE REFLECTIVE PAVEMENT MARKERS IN THE CENTER OF THE DRIVE LANE ADJACENT TO EACH FIRE HYDRANT.
- PROVIDE FOR ONE (1) WHITE REFLECTIVE PAVEMENT MARKER IN THE CENTER OF THE DRIVE LANE ADJACENT TO EACH GATE VALVE.
- 7. ALL EXISTING SIGNS (STOP, SPEED LIMIT, STREET NAMES, SCHOOL, ETC) SHALL BE REMOVED WHERE CONFLICTING WITH CONSTRUCTION ACTIVITIES AND RE-INSTALLED PRIOR TO OPENING ROADWAYS FOR TRAFFIC.
- 8. PAVEMENT MARKINGS AND GEOMETRICS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND MARTIN COUNTY ENGINEERING DESIGN HANDBOOK AND CONSTRUCTION DETAILS.
- 9. TRAFFIC PAINT FOR STRIPING & MARKINGS SHALL BE FDOT APPROVED PAINT IN CONFORMANCE WITH FDOT STANDARD SPECIFICATIONS MANUAL SECTION 710 AND 971.
- 10. STOP SIGNS AND STREET SIGNS SHALL BE HIGH INTENSITY REFLECTIVE MATERIAL.
- 11. ALL SIGNS SHALL BE PLACED AT A HEIGHT OF 7 FEET (HEIGHT MEASURED FROM THE BOTTOM OF THE SIGN TO THE EDGE OF NEAREST PAVEMENT). THE SIGN POST SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 12 FEET FROM ADJACENT PAVEMENT AND A MINIMUM OF 6 FEET FROM THE CROSS TRAFFIC PAVEMENT.



PROPOSED ASPHALT PAVEMENT
PROPOSED CONCRETE PAVEMENT
UPLAND PRESERVE AREA
ACCESS EASEMENT
LIGHT POLE

LIGHT POLE

LIGHT POLE AND FIXTURE

LIGHT FIXTURE

FLA. P.E. No. 84229

DATE:
FEBRUARY 2023

JOB NO.

MATTHEW J. GIANI, P.E.

FOR THE FIRM:

FOR THE FIRM,

1283A.00 SHEET CE5

- . APPROVED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING GRADING, EXCAVATION, FILLING, OR OTHER LAND DISTURBANCE ACTIVITIES, EXCEPT THOSE OPERATIONS NEEDED TO INSTALL SUCH MEASURES.
- INSPECTION OF ALL EROSION CONTROL MEASURES SHALL BE CONDUCTED WEEKLY, OR AFTER EACH RAINFALL EVENT. REPAIR, AND/OR REPLACEMENT OF SUCH MEASURES SHALL BE MADE PROMPTY, AS NEEDED.
- . KEEP DUST WITHIN TOLERABLE LIMITS BY SPRINKLING OR OTHER ACCEPTABLE MEANS.
- 5. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED IF DEEMED NECESSARY BY ONSITE INSPECTION.
- 6. FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL PRACTICES SHALL RESULT IN CONSTRUCTION BEING
- 7. DRAINAGE INLETS SHALL BE PROTECTED BY FILTER AND GRADED ROCK AS PER INLET PROTECTION DETAIL.
- 8. ANY ACCESS ROUTES TO SITE SHALL BE BASED WITH CRUSHED STONE, WHERE PRACTICAL.
- 9. EROSION CONTROL MEASURES ARE TO BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- 10. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED.
- 11. ALL WORK IS TO BE IN COMPLIANCE WITH THE RULES AND REGULATIONS SET FORTH BY THE STATE OF FLORIDA. DEPARTMENT OF ENVIRONMENTAL PROTECTION AND MARTIN
- 12. DISCHARGE FROM DEWATERING OPERATIONS SHALL BE RETAINED ONSITE IN A CONTAINMENT AREA.
- 13. TRUCK WHEELS TO BE WASHED AS REQUIRED TO LIMIT TRACKING OF SEDIMENT OFF-SITE.
- 14. PROPERTY CORNERS SHALL BE LOCATED BY A LICENSED LAND SURVEYOR AND CLEARLY MARKED IN THE FIELD PRIOR TO THE ENGINEERING DEPARTMENT'S PRE-CONSTRUCTION MEETING FOR SITE DEVELOPMENT.
- 15. AUTHORIZATION TO INSTALL EROSION CONTROL DEVICES AND PRESERVE AREA BARRICADES WILL BE GRANTED AT THE PRE-CONSTRUCTION MEETING. THIS AUTHORIZATION SHALL BE POSTED ON THE SITE, IN THE PERMIT BOX, ITS LOCATION SHOWN ELSEWHERE ON THIS PAGE.
- 16. NO ADDITIONAL LAND CLEARING SHALL COMMENCE UNTIL A SATISFACTORY INSPECTION OF THE REQUIRED EROSION CONTROL BARRICADES HAS BEEN OBTAINED.
- 17. ALL CONSTRUCTION BARRICADES AND SILT FENCES WILL REMAIN IN PLACE AND BE MONITORED FOR COMPLIANCE BY THE PERMIT HOLDER DURING THE PERMITTED DEVELOPMENT
- 18. PRIOR TO SCHEDULING A FINAL ENVIRONMENTAL INSPECTION FOR THE INFRASTRUCTURE, ALL BARRICADES AND EROSION CONTROL DEVICES SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- 19. CONTRACTOR MUST USE SITE STABILIZATION METHODS, SUCH, AS, BUT NOT LIMITED TO, SEEDING, WETTING, AND MULCHING WHICH MINIMIZE AIRBORNE DUST AND PARTICULATE EMISSIONS GENERATED BY CONSTRUCTION ACTIVITY, SUCH METHODS SHALL BE COMPLETELY PROGRESSIVELY AND ACTIVELY MAINTAINED AS VEGETATION REMOVAL OCCURS WITHIN A GIVEN AREA OF A SITE. AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL INFORM THE COUNTY WHICH VEGETATION REMOVAL METHODS WILL BE CONDUCTED AND THE PLAN TO MINIMIZE AIRBORNE DUST AND PARTICULATE EMISSIONS.
- 20. DURING PERIOD OF DEVELOPMENT AND CONSTRUCTION, THE AREAS WITHIN THE DRIP-LINE OF PRESERVED TREES SHALL BE MAINTAINED AT THEIR ORIGINAL GRADE WITH PERVIOUS LANDSCAPE MATERIAL. WITHIN THESE AREAS, THERE SHALL BE NO TRENCHING OR CUTTING OF ROOTS; NO FILL, COMPACTION OR REMOVAL OF SOIL; AND, NO USE OF CONCRETE, PAINT, CHEMICALS OR OTHER FOREIGN SUBSTANCES.

EROSION CONTROL PRACTICES

1. STABILIZATION

WHERE CONSTRUCTION OF FILL STOCKPILES ADJACENT TO CONSTRUCTION ACTIVITIES CEASES FOR AT LEAST 21 DAYS, THE SIDES WILL BE STABILIZED BY SEEDING AND MULCHING IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. SEED AND MULCH SHALL BE APPLIED NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THE

2. PERMANENT STABILIZATION

ALL LANDSCAPING, INCLUDING SODDING, SHALL BE INSTALLED ON THE PERIMETER LANDSCAPE BERMS IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN WITHIN 14 DAYS OF THE LAST CONSTRUCTION ACTIVITY IN THE LANDSCAPE BUFFER AREAS.

3. OFF-SITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF MINIMUM 4" COMPACTED LIMEROCK BASE WILL BE CONSTRUCTED AS SOON AS CONSTRUCTION STARTS TO REDUCE THE AMOUNT OF VEHICLE TRACKING FROM THE SITE. THE PAVED STREET ADJACENT TO THE CONSTRUCTION ENTRANCE WILL BE SWEPT ON A REGULAR BASIS TO REMOVE ANY ACCUMULATION OF DIRT OR ROCKS WHICH HAVE BEEN TRACKED FROM THE SITE. ALL DUMP TRUCKS BRINGING MATERIAL TO, OR LEAVING THE SITE WILL BE COVERED WITH A TARPAULIN.

4. EROSION AND SEDIMENT CONTROL, INSPECTION AND MAINTENANCE PRACTICES

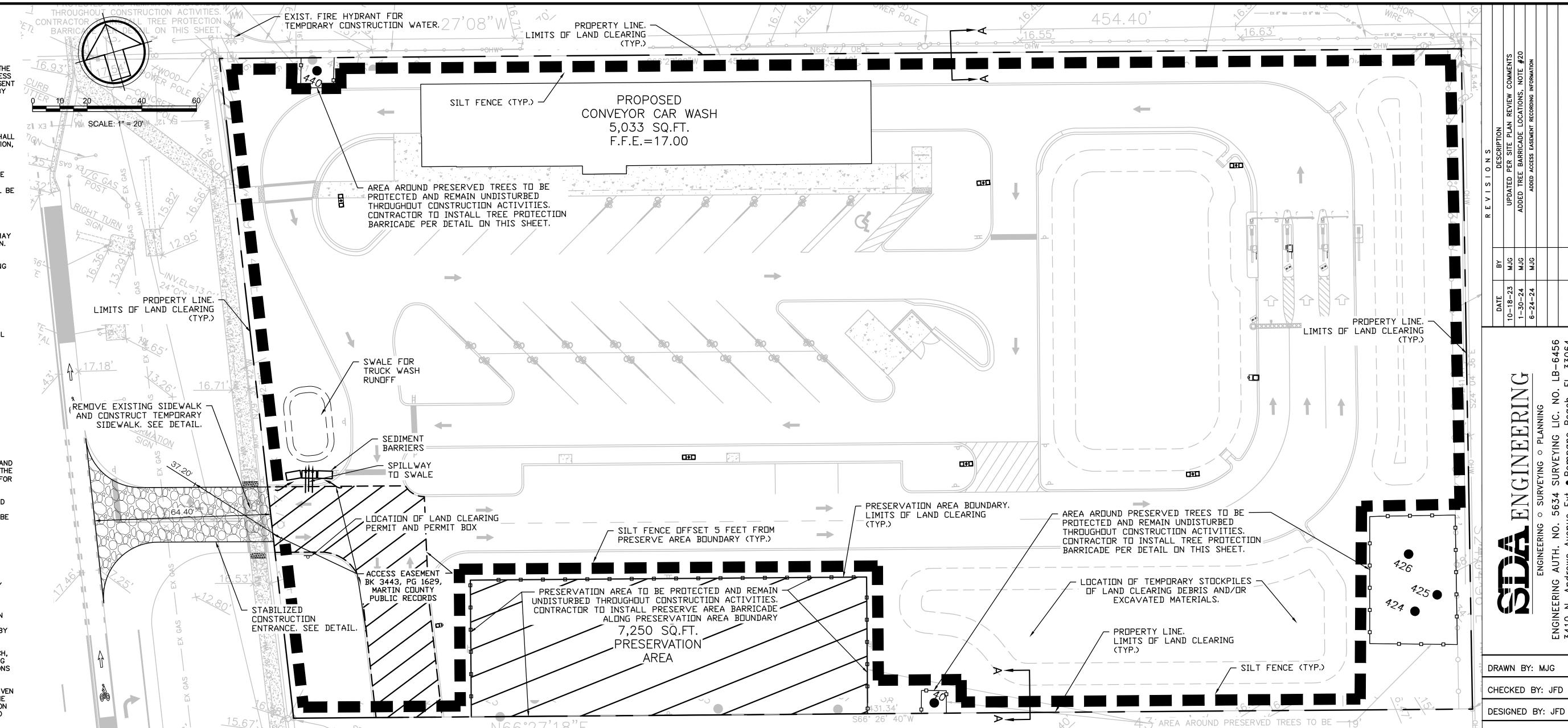
* ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE WEEKLY AND FOLLOWING ANY STORM EVENT GREATER THAN

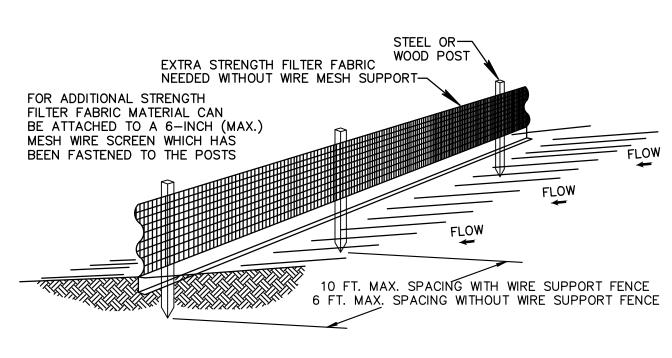
* REPAIRS WILL BE COMPLETED WITHIN 24 HOURS. * THE PERIMETER SWALES WILL BE INSPECTED REGULARLY AND REGRADED AS NECESSARY TO REMOVE THE BUILT UP SEDIMENT * TEMPORARY SEED AND MULCH AREAS AND PERMANENT SOD

AREAS WILL BE INSPECTED REGULARLY FOR BARE SPOTS AND TO ENSURE ADEQUATE GROWTH. * TURBIDITY SCREENS SHALL BE INSPECTED REGULARLY, AND REPAIRED AS NECESSARY. * FILTER FABRIC SHALL BE SECURED IN ALL CATCH BASINS UNTIL COMPLETION OF CONSTRUCTION.

* IF CONDITIONS ON THE SITE ARE SUCH THAT MOST OF THE MUD IS NOT REMOVED BY THE VEHICLES TRAVELING OVER THE STONE, THEN THE VEHICLE TIRES MUST BE WASHED BEFORE ENTERING A PUBLIC ROAD.

* WASH WATER MUST BE CARRIED AWAY FROM THE ENTRANCE TO A SETTLING AREA TO REMOVE SEDIMENT.





1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (90 CM).

2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS.

3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET (3 M) APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES (30 CM). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET (1.8 M).

4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES (10 CM) WIDE AND 4 INCHES (10 CM) DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.

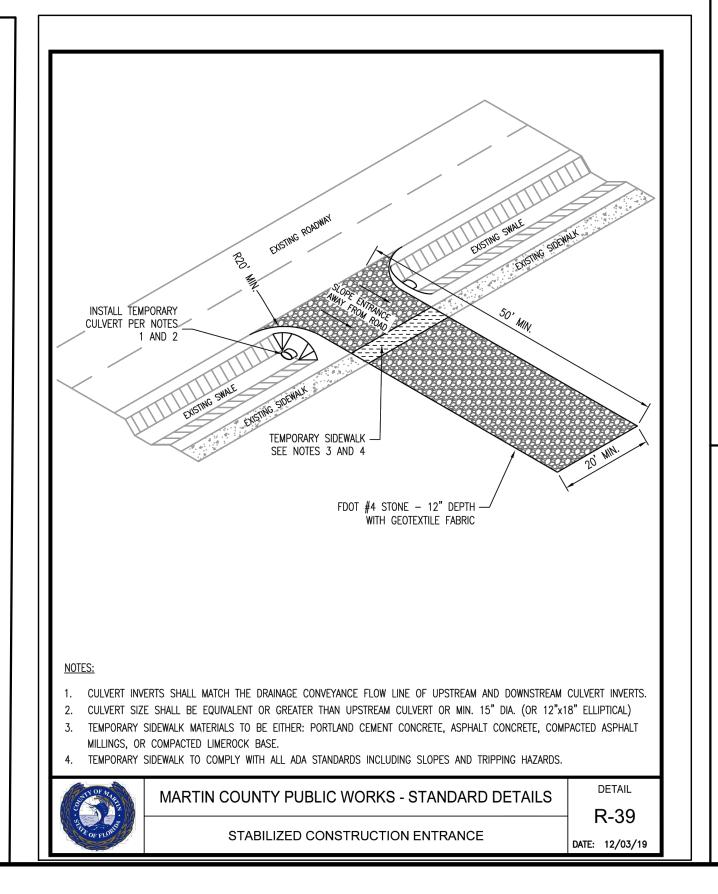
5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH (25 MM) LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES (5 CM) AND SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.

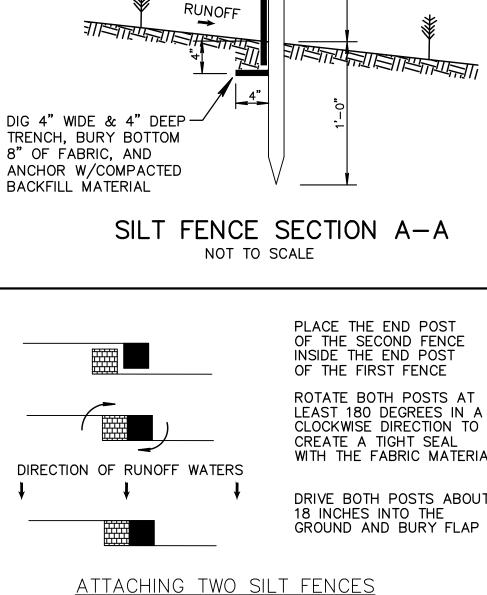
6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES (20 CM) OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGIONAL GROUND SURFACE.

7. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.

8. ALL PROJECTS REQUIRE SUBMITTAL OF POLLUTION PREVENTION PLAN (PPP). 9. ALL PROJECTS 1 AC. OR MORE MUST SUBMIT NOTICE OF INTENT (NOI) TO FDEP.

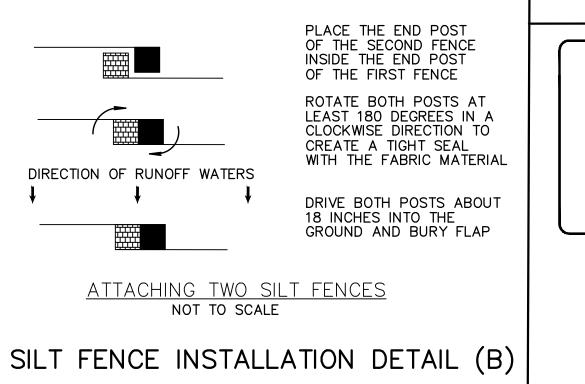
SILT FENCE INSTALLATION DETAIL (A)

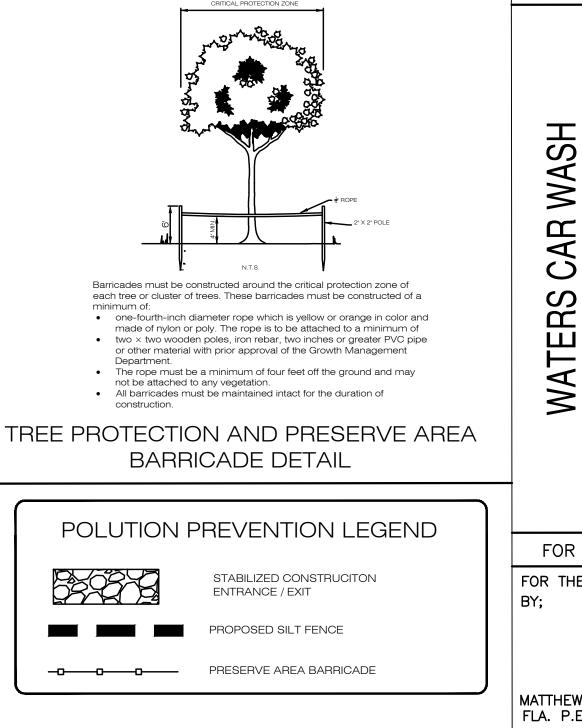


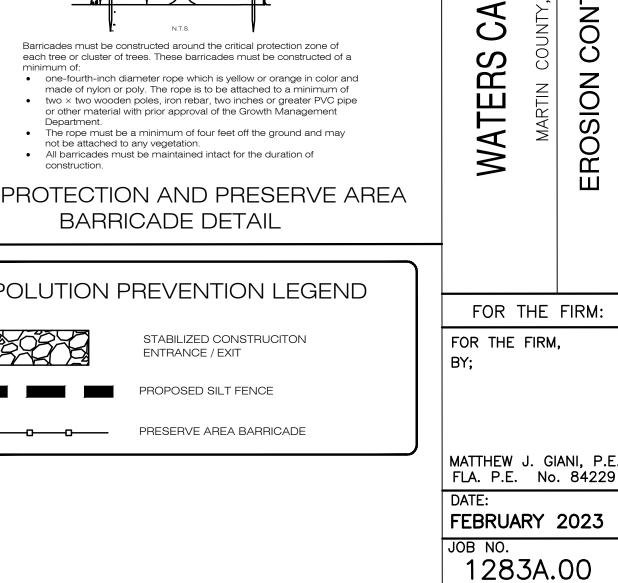


FENCE POST · (WOOD OR STEEL)

FABRIC



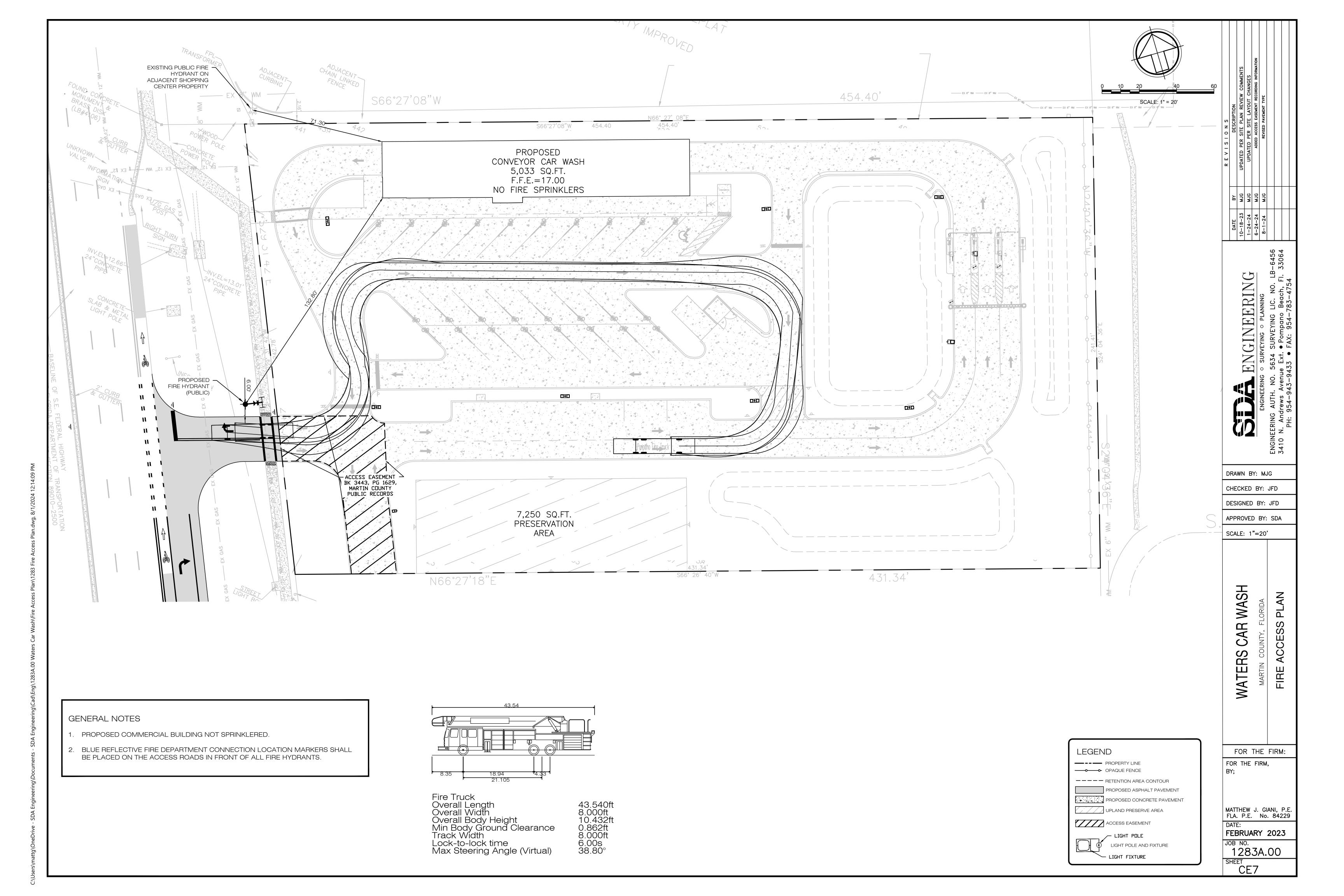


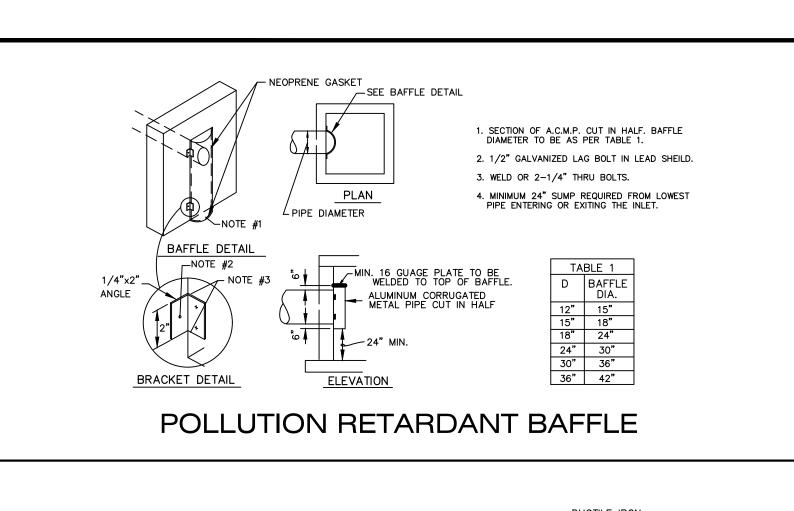


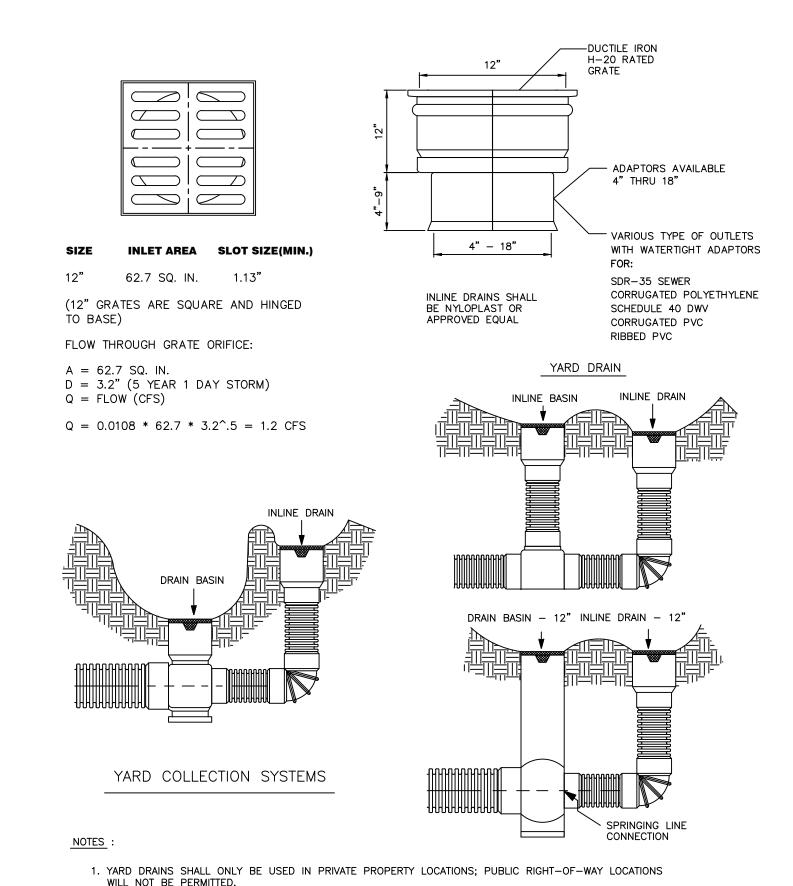
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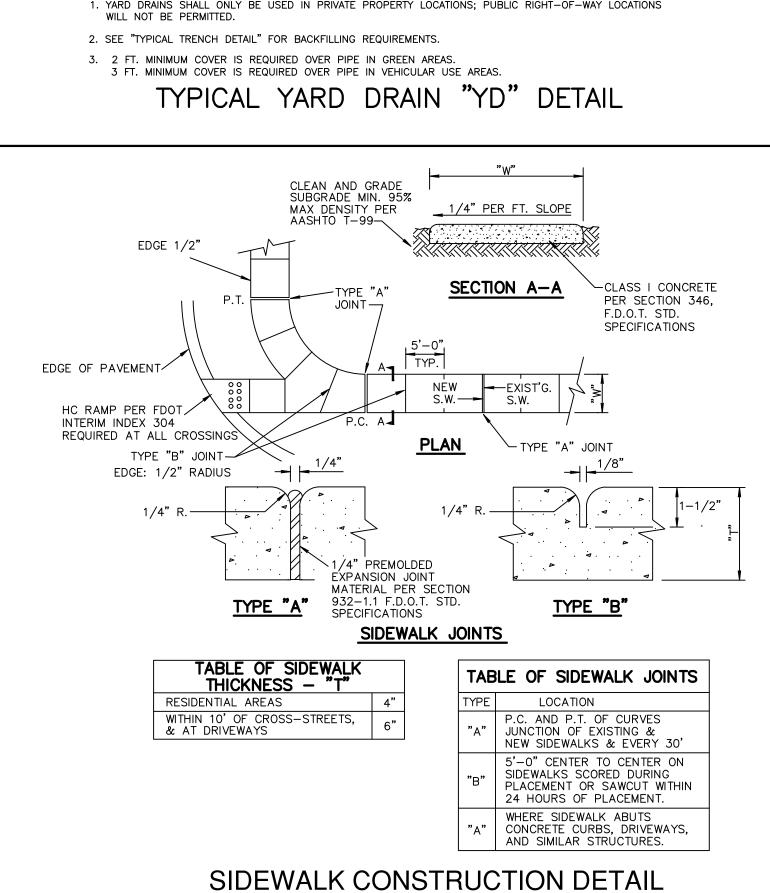
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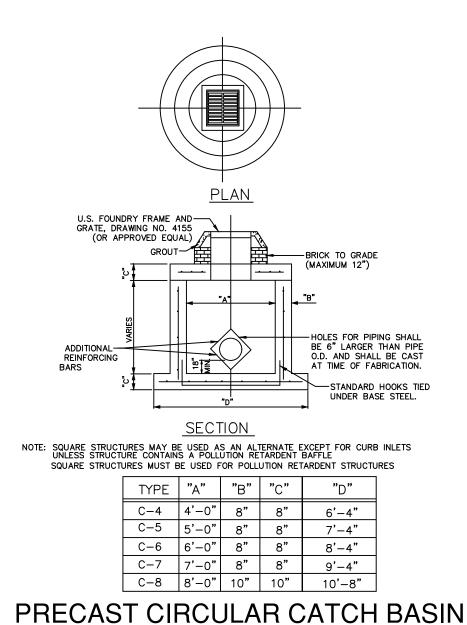
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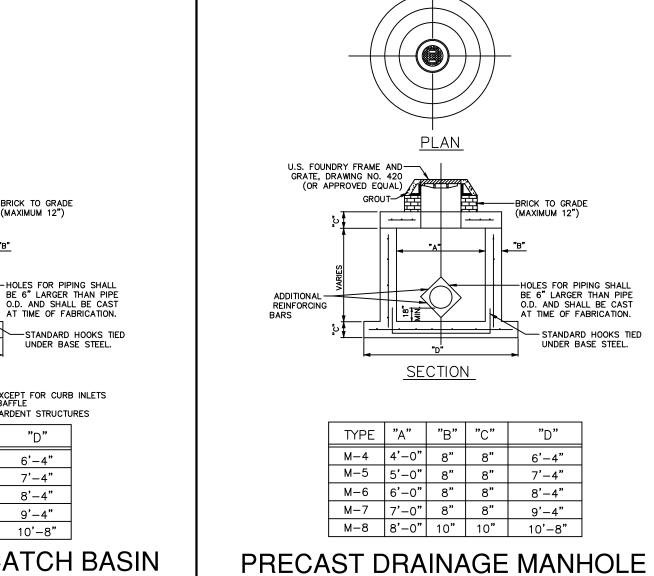








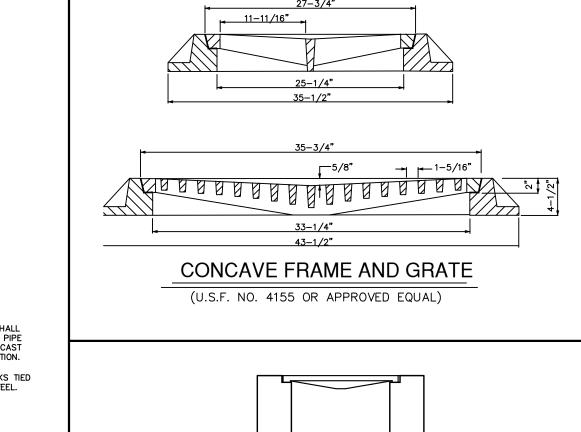


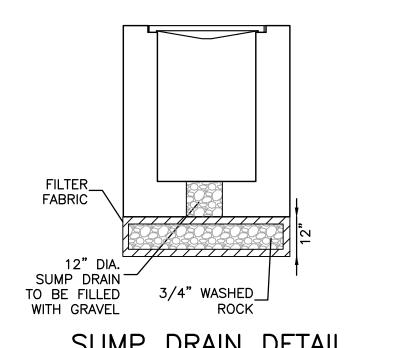


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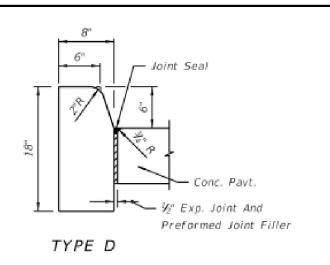
SECTION AA

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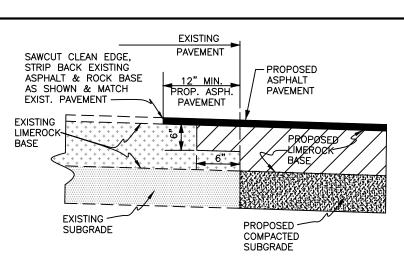




SUMP DRAIN DETAIL FOR ALL STRUCTURES



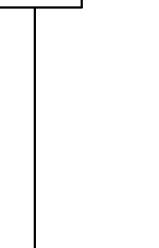
CONCRETE CURB DETAIL TYPE "D" FDOT INDEX 300



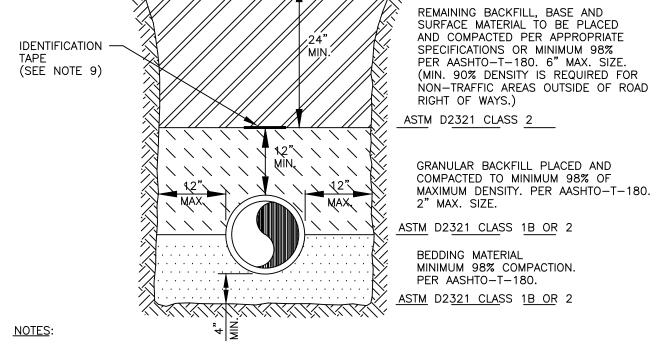
SAWCUT DETAIL

2'-3" TYPE E

CONCRETE CURB AND GUTTER DETAIL



TYPE "E" FDOT INDEX 300



- EDGE OF PAVEMENT

2.00'

CONCRETE FLUME DETAIL

TYPE "D" CURB

2' CURB TRANSITION

TO DISSIPATE ENERGY

CONC. APRON

3000 PSI

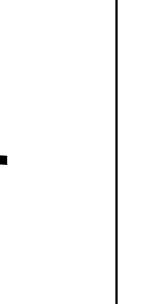
- 1. BEDDING SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8"- 7/8" SIZING. UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGER
- 2. THE PIPE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
- 3. THE PIPE SHALL BE PLACED IN A DRY TRENCH.

6" TYPE -

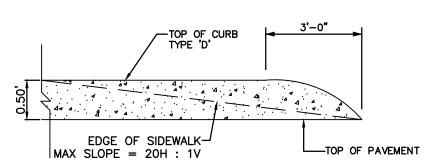
"D" CURB

- 4. BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL SUCH AS LARGE ROCK, MUCK AND DEBRIS.
- 5. DENSITY TESTS ARE REQUIRED IN 1 FOOT LIFTS ABOVE THE PIPE AT INTERVALS OF 400' MAXIMUM, OR AS DIRECTED BY THE INSPECTOR.
- 6. THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH ALL TRENCH SAFETY LAWS
- 7. SEE SEPARATE DETAIL FOR "PIPE INSTALLATION UNDER EXISTING PAVEMENT OPEN CUT."
- 8. THE AFFECTED AREA SHALL BE RESTORED TO EQUAL OR BETTER CONDITION OR AS SPECIFIED IN PERMIT/CONTRACT DOCUMENTS.
- 9. APPROVED MAGNETIC TAPE IS REQUIRED FOR: PVC POTABLE WATER MAINS, PVC FORCE MAINS AND RECLAIMED WATER MAINS.

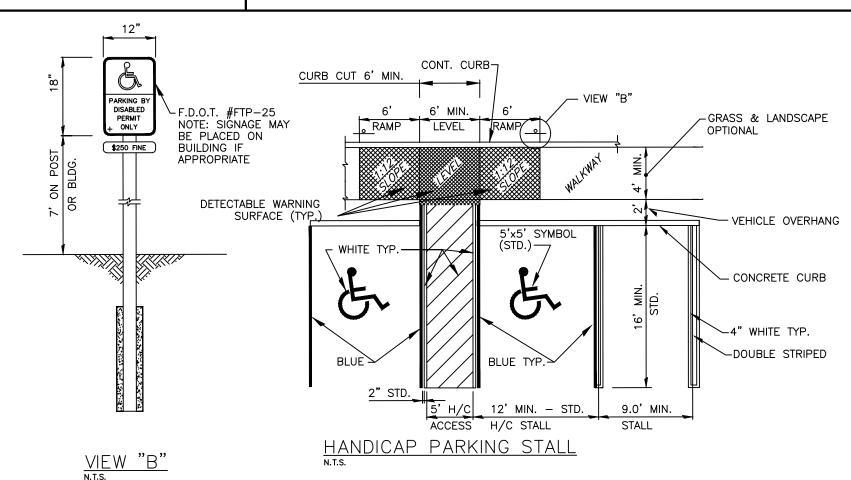
TYPICAL TRENCH DETAIL







CURB ENDING DETAIL INTEGRAL CURB AND SIDEWALK



ENVELOPE

H.D.P.E. N-12

SEE PLAN FOR

PIPE SIZE

ENVELOPE-

AGGREGATE—

DELETERIOUS MATTER.

PERFORATED PIPE.

FILTER FABRIC

3/4" COURSE

PERFORATED

No. 4 COARSE AGGREGATE

FILTER FABRIC

OVER LAP

BENEATH COUPLING

MANHOLE

COUPLING

LONGITUDINAL SECTION

EXFILTRATION TRENCH

SEE PAVING & DRAINAGE

PLANS FOR PIPE INVERT ELEVATIONS

DETAIL

HANDICAP PARKING, STALLS AND DETAILS

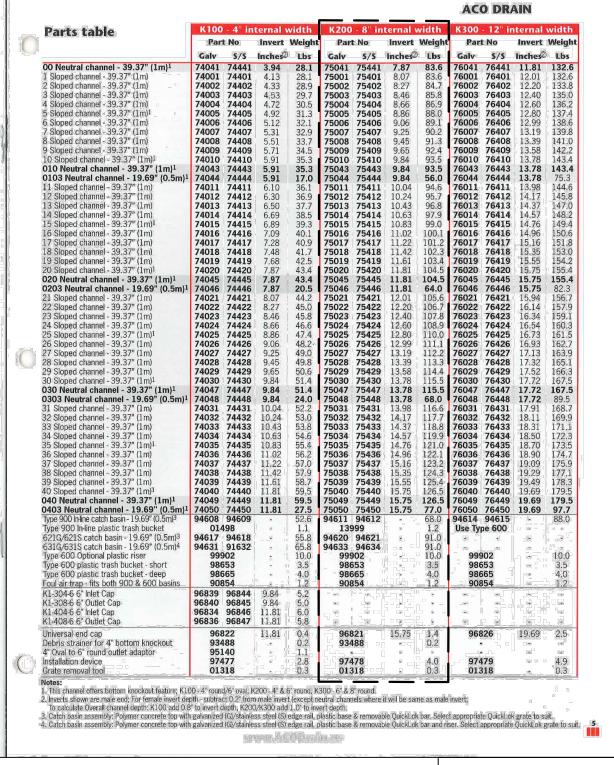
TOP OF TRENCH ELEV. = 14.50INEERIN EL.=10.00 X E . PIPES SHALL CONNECT TO ADDITIONAL CATCH BASINS AS REQUIRED 2. BALLAST ROCK SHALL BE FROM FRESH WATER WASHED FREE OF 3. TRENCH TO BE LINED WITH AMOCO PROPEX 4545 OR APPROVED EQUIVALENT TYPE FILTER FABRIC. OVERLAP TRENCH LINING MATERIAL A MINIMUM OF 2' AT TOP OF TRENCH. CLOSE ENDS AND STRAP TYPICAL EXFILTRATION TRENCH DRAWN BY: MJG CHECKED BY: JFD DESIGNED BY: MJG APPROVED BY: S.D.A SCALE: N.T.S. DRAIN, | യ ഗ CAR TER \aleph SEALFOR THE FIRM, BY: MATTHEW GIANI P.E. FLA. P.E. No. 84229 FEBRUARY 2023 1283A.00

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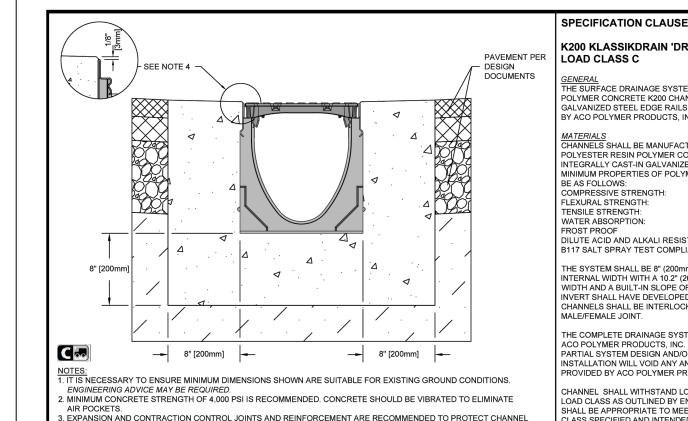
PAVING AND DRAINAGE SPECIFICATIONS

- 1. ALL ORGANIC OR DELETERIOUS MATERIAL SHALL BE REMOVED FROM WITHIN 5 FEET OF ANY EDGE OF PAVEMENT. ANY SUCH MATERIAL SHALL BE REPLACED BY APPROVED GRANULAR FILL WHICH SHALL BE COMPACTED TO 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO
- STABILIZED SUBGRADE SHALL HAVE A LIMEROCK BEARING RATIO (LBR) OF 40 AND SHALL BE COMPACTED TO 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
- LIMEROCK BASE COURSE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 311 OF FLORIDA D.O.T. STANDARD SPECIFICATIONS, EXCEPT THAT THE MINIMUM PERCENTAGE OF CARBONATES OF CALCIUM AND MAGNESIUM SHALL BE 60%.
- 4. ASPHALTIC CONCRETE TYPE SP-9.5 SHALL CONFORM TO THE REQUIREMENTS OF SECTION 331 OF FLORIDA D.O.T. STANDARD SPECIFICATIONS.
- PRIME COAT AND TACK COAT FOR BASE COURSES SHALL CONFORM TO THE REQUIREMENTS OF SECTIONS 300-1 THROUGH 300-7 OF FLORIDA D.O.T. STANDARD SPECIFICATIONS. PRIME COAT SHALL BE APPLIED AT A RATE OF 0.25 GALLONS PER SQUARE YARD AND TACK COAT AT A RATE OF 0.08 GALLONS PER SQUARE YARD UNLESS A VARIATION RATE IS APPROVED
- 6. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
- 7. PRECAST CONCRETE MANHOLES AND CATCH BASINS SHALL MEET THE REQUIREMENTS OF A.S.T.M. SPECIFICATIONS C-478 AND 64T.
- CONCRETE FOR PRECAST MANHOLES AND CATCH BASINS SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
- REINFORCING STEEL FOR MANHOLES AND CATCH BASINS SHALL CONFORM TO A.S.T.M. SPECIFICATIONS A-615 AND A-305, LATEST REVISION. GRADE 60 STEEL SHALL BE USED FOR TOP AND BOTTOM SLABS.
- 10. ALL RE-BAR SPLICES IN CONCRETE STRUCTURES SHALL HAVE A MINIMUM LAP OF 24 BAR DIAMETERS.
- 11. ALL JOINTS IN CONCRETE STRUCTURES SHALL BE FINISHED WATER TIGHT.
- 12. ALL SPACES AROUND PIPING ENTERING OR LEAVING MANHOLES AND CATCH BASINS SHALL BE COMPLETELY FILLED WITH 2:1 WATERPROOF, NON-SHRINKING CEMENT MORTAR.
- 13. REINFORCED CONCRETE PIPE (RCP) SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. SPECIFICATION C-76, FOR CLASS III, WALL THICKNESS "B" REINFORCED CONCRETE PIPE, AND AS MODIFIED IN SECTION 941 OF FLORIDA D.O.T. STANDARD SPECIFICATION.
- 14. CORRUGATED ALUMINUM PIPE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 945 OF FLORIDA D.O.T. STANDARD SPECIFICATIONS. DESIGN MEMORANDUM 06036 SHALL BE ADHERED TO WITH ANNULAR BANDING OF JOINTS REQUIRED.
- 15. PVC DRAINAGE PIPE SHALL BE A.S.T.M. D-3034 S.D.R. 35 OR APPROVED EQUAL.
- 16. HDPE PIPE SHALL BE IN FILTER SOCK WHERE INDICATED ADS N-12 OR APPROVED EQUAL.
- 17. HDPE PIPE SHALL CONFORM TO A.S.T.M. F-405, A.D.S. N-12 WATER TIGHT OR APPROVED EQUAL.
- 18. ALL LABOR, MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY MARTIN COUNTY ENGINEERING DEPT. AND THE PLANS AND CONSTRUCTION SPECIFICATIONS. WHERE CONFLICTS OR OMISSIONS EXIST, MARTIN COUNTY ENGINEERING DEPT. STANDARDS SHALL DICTATE. SUBSTITUTIONS AND DEVIATIONS FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.
- 19. ALL UTILITIES AND DRAINAGE INSTALLATIONS WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED AND INSTALLED PRIOR TO COMMENCING SUBGRADE WORK ON THE ROAD.
- 20. THE EXISTING ELEVATIONS SHOWN ON THE GRADING PLAN INDICATES THE ELEVATION AT THE POINT DEPICTED ONLY. AND SHOULD NOT BE INTERPRETED AS INDICATING THE ELEVATIONS OF ANY OTHER POINT. THESE EXISTING ELEVATIONS ARE IN NO WAY AN INDICATOR OF SURFACE OR SUBSURFACE SOIL CONDITIONS.
- 21. ALL ACCESSIBLE ROUTES SHALL COMPLY WITH ADA REGULATIONS AND FLORIDA ACCESSIBILITY CODE (LATEST EDITION) AND ALL CURB RAMPS SHALL COMPLY WITH THE FLORIDA BUILDING CODE (LATEST EDITION).

Typical system layout - K100/K200/K300 Half meter channels QuickLok - boltless locking system Comprised of a glass nylon stud fitted into the grate and a removable QuickLok bar in the channel, the QuickLok system locks the grate to the channel by aligning the stub over the bar and applying pressure until they 'snap' together. With no loose bolts or bars, QuickLok provides a highly secure boltless lock that is still easy to take apart for maintenance and leaning. This saves time and money during installation. Locate locking bar in K200/K300 channels To install grate, align Push down or stand on To remove first grate, To remove bar, insert recesses, rotate and use plastic safety clip QuickLok stud directly grate until it clicks into insert grate removal screwdriver into hole use hammer to tap to hold in place. over locking bar. tool into slots at end of at end of bar and lever grate; pull up sharply. back serrated end; Serrated ends grip in Remaining grates can rotate bar free. be removed by hand.







INSTALLATION DRAWING - ACO DRAIN

INSTRUCTIONS AND RECOMMENDATIONS. ACO Polymer Products, Inc.

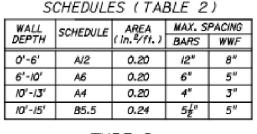
9470 Pinecone Dr. Mentor, OH 44060 Tel: 440-639-7230

K200 KLASSIKDRAIN 'DRAINLOK' PAVEMENT PER LOAD CLASS C <u>BENERAL</u> THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE K200 CHANNEL SYSTEM WITH GALVANIZED STEEL EDGE RAILS AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC. <u>MATERIALS</u> CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST-IN GALVANIZED STEEL EDGE RAI MINIMUM PROPERTIES OF POLYMER CONCRETE WIL COMPRESSIVE STRENGTH: 14,000 PS FLEXURAL STRENGTH: WATER ABSORPTION: FROST PROOF DILUTE ACID AND ALKALI RESISTANT **B117 SALT SPRAY TEST COMPLIANT** THE SYSTEM SHALL BE 8" (200mm) NOMINAL INTERNAL WIDTH WITH A 10.2" (260mm) OVERALL WIDTH AND A BUILT-IN SLOPE OF 0.5%. CHANNEL INVERT SHALL HAVE DEVELOPED "V" SHAPE ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT. ACO POLYMER PRODUCTS, INC. ANY DEVIATION OF PARTIAL SYSTEM DESIGN AND/OR IMPROPER ISTALLATION WILL VOID ANY AND ALL WARRANTIES ROVIDED BY ACO POLYMER PRODUCTS, INC. AD CLASS AS OUTLINED BY EN 1433 GRATE TYPE SHALL BE APPROPRIATE TO MEET THE SYSTEM LO. CLASS SPECIFIED AND INTENDED APPLICATION. EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND. *ENGINEERING ADVICE MAY BE REQUIRED.*4. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" [3mm] ABOVE THE TOP OF THE CHANNEL EDGE. TES SHALL BE SECURED USING 'DRAINLOK' SHALL BE CERTIFIED TO MEET THE SPECIFIED EN BLOAD CLASS. THE SYSTEM SHALL BE INSTALLE 3. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS. K200 - KLASSIKDRAIN - LOAD CLASS: C **Exposed Asphalt Pavement**

Arizona Tel: 888-490-9552 e-mail: sales@acousa.com Ohio Tel: 800-543-4764 www.acousa.com South Carolina Tel: 800-543-4764

ACCESSIBLE PATH NOTES:

- 1. RUNNING SLOPES ALONG ACCESSIBLE PATHS CANNOT EXCEED 5%.
- 2. CROSS SLOPES ALONG ACCESSIBLE PATHS CANNOT EXCEED 2%.
- CHANGES IN SURFACE MATERIAL MUST HAVE SMOOTH TRANSITIONS OF NOT MORE THAN $\frac{1}{4}$ "



HORIZONTAL WALL REINFORCING

5'-I" Precast

5'-I" Precast

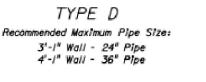
Horz. Wall Reinf.

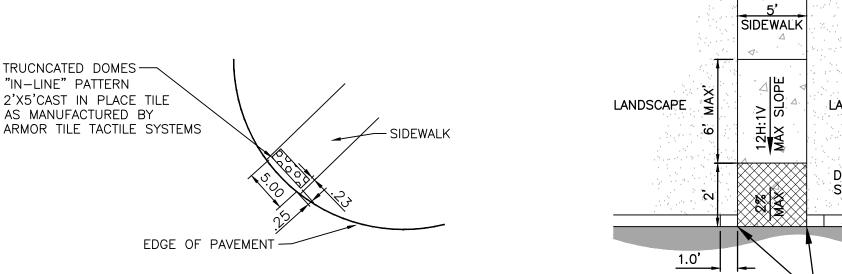
(See Table 2人

SECTION

∼ Center Of Box

PLAN Location Reference

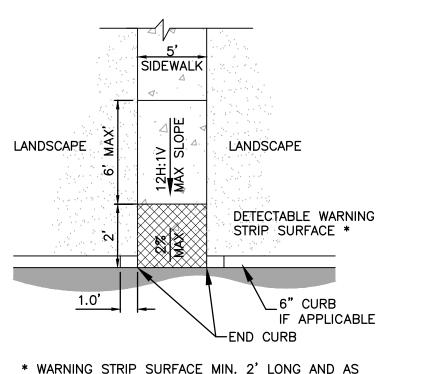


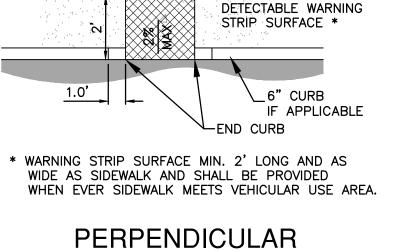


NOTES:

SIDEWALK SLOPES SHALL MEET THE REQUIREMENTS OF THE "AMERICAN WITH DISABILITIES ACT." PROVIDE ACCESSIBLE RAMPS IN ACCORDANCE WITH FLORIDA DEPT. OF TRANSPORTATION INDEX 304. TACTILE SURFACE SHALL CONSIST OF 2'X5' CAST IN PLACE, VITRIFIED POLYMER COMPOSITE(VCP) TACTILE TILE WITH TRUNCATED DOMES AS MANUFACTURED BY ENGINEERED PLASTICS INC., ARMOR TILE OR APPROVED EQUAL.

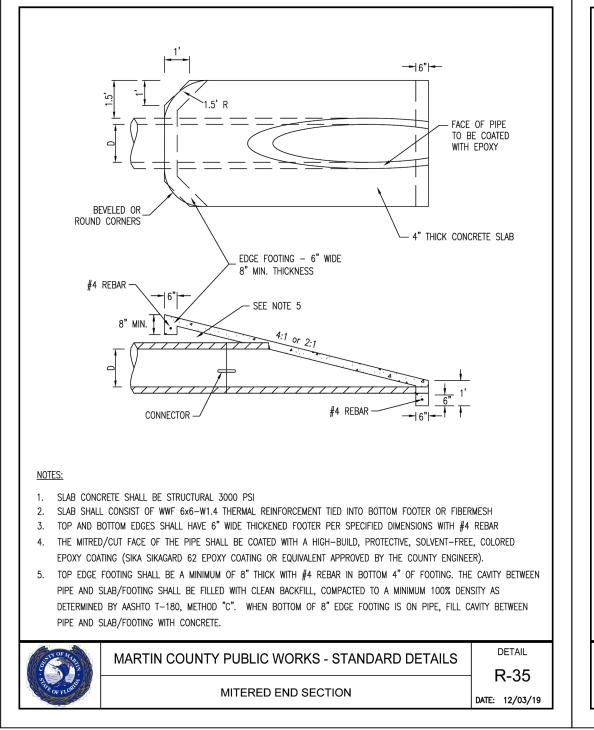
TRUNCATED DOME DETAIL

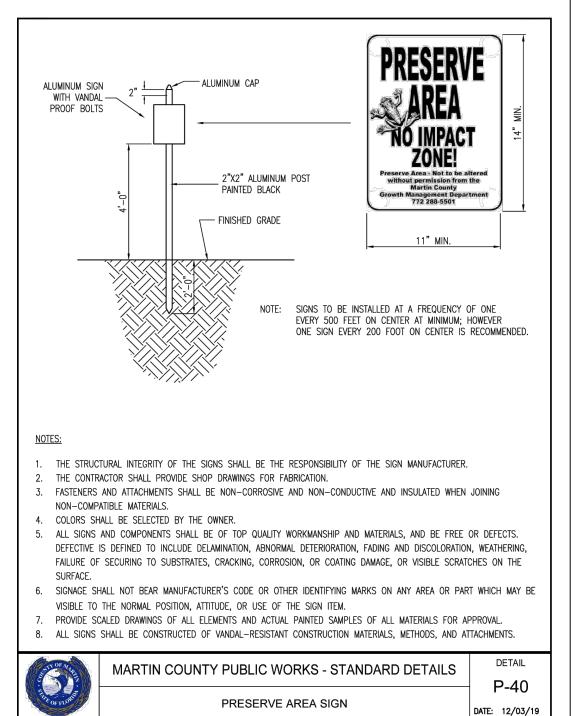




SIDEWALK/ DRIVE

CONNECTION





INEERII

J

DRAWN BY: MJG CHECKED BY: JFD DESIGNED BY: MJG APPROVED BY: S.D.A

SCALE: N.T.S.

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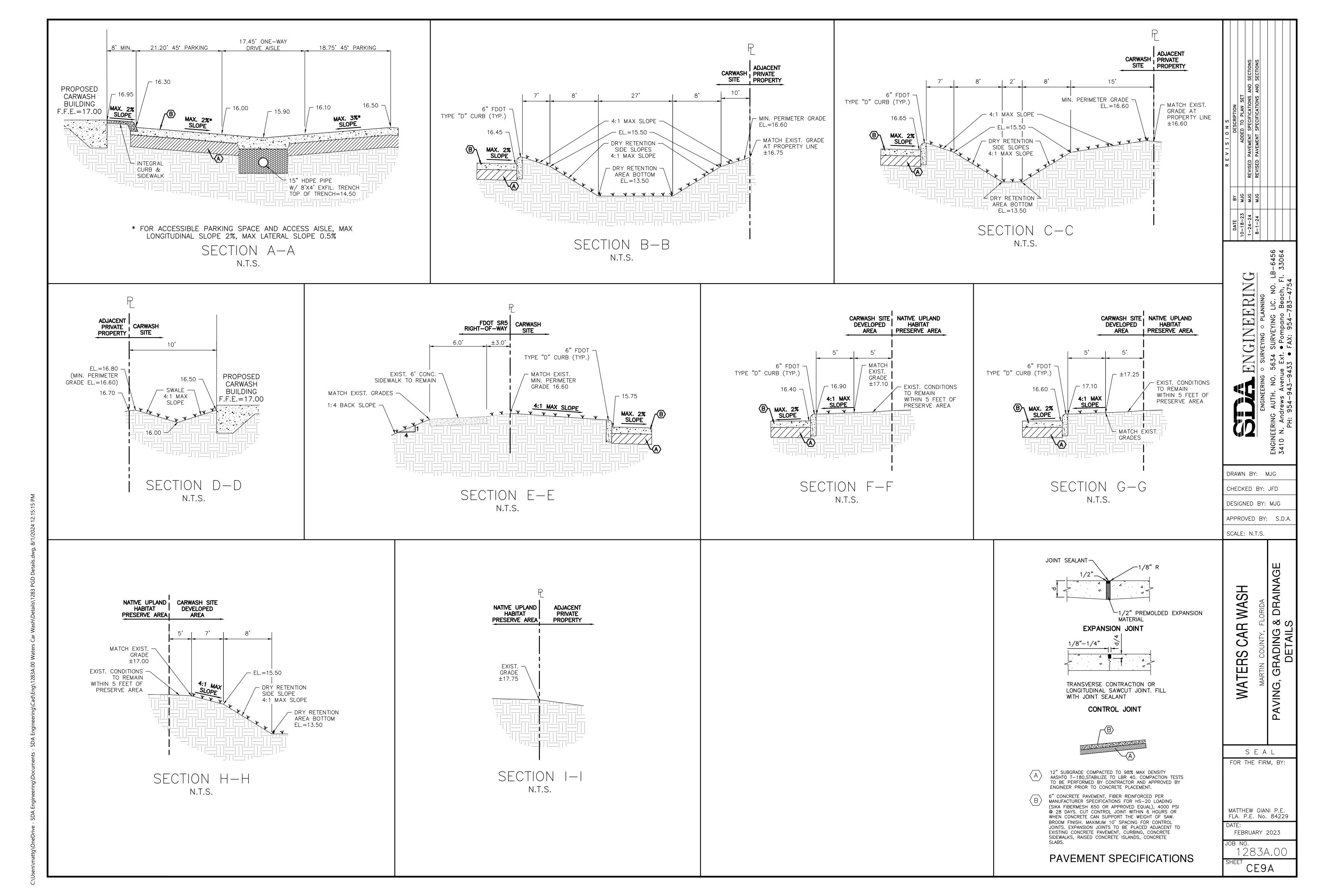
SEAL FOR THE FIRM, BY:

 \mathbb{X}

MATTHEW GIANI P.E. FLA. P.E. No. 84229

FEBRUARY 2023 1283A.00

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GENERAL NOTES:

FOR THE PURPOSE OF THE GENERAL NOTES BELOW, THE TERM DEPARTMENT SHALL MEAN "MARTIN COUNTY UTILITIES & SOLID WASTE DEPARTMENT".

1. ALL CONNECTIONS TO EXISTING MAINS SHALL BE OBSERVED BY THE DEPARTMENT. VALVES ON EXISTING MAINS SHALL BE OPERATED BY DEPARTMENT PERSONNEL OR UNDER THEIR DIRECT SUPERVISION. TAPPING SLEEVE AND VALVE SHALL BE PRESSURE TESTED PRIOR TO TAPPING. IF SERVICE MUST BE CUT OFF TO EXISTING CUSTOMERS, THE DEPARTMENT MUST HAVE THREE DAYS NOTICE TO MAKE NECESSARY NOTIFICATIONS. THE CONTRACTOR MAY BE REQUIRED TO ASSIST IN NOTIFICATIONS. IN THIS EVENT, CONTRACTOR SHALL BE READY TO PROCEED WITH AS MUCH MATERIAL PREASSEMBLED AS POSSIBLE AT THE SITE TO MINIMIZE THE LENGTH OF SERVICE INTERRUPTION. THE DEPARTMENT WILL POSTPONE A SERVICE CUT OFF IF THE CONTRACTOR IS NOT READY TO PROCEED ON SCHEDULE. SUCH CONNECTIONS SHALL BE MADE AT NIGHT TO MINIMIZE EFFECTS UNLESS OTHERWISE AUTHORIZED BY THE DEPARTMENT. NO CUSTOMER SHOULD BE WITHOUT SERVICE FOR MORE THAN FOUR HOURS.

LOCAL CHLORINATION WILL BE REQUIRED FOR ALL PIPE AND FITTINGS USED TO COMPLETE CONNECTIONS WITH POTABLE WATER.

2. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF MARTIN COUNTY UTILITIES MINIMUM DESIGN AND CONSTRUCTION STANDARDS, ONE COPY OF THE CONTRACT DOCUMENTS, INCLUDING PLANS, SPECIFICATIONS AND SPECIAL PROVISIONS, AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.

3. THE CONTRACTOR SHALL CONTACT ALL CONCERNED UTILITIES AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS.

4. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHOD AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS SHALL BE RESOLVED BY THE ENGINEER AND DEPARTMENT PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED 6. PROJECT SUPERINTENDENT: THE CONTRACTOR SHALL PROVIDE A QUALIFIED SUPERINTENDENT TO REMAIN ON THE JOB SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. THE SUPERINTENDENT SHALL BE PRESENT AT THE PRE—CONSTRUCTION MEETINGS. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT BY LETTER PRIOR TO THE PRE—CONSTRUCTION MEETING APPOINTING THE SUPERINTENDENT FOR THIS PROJECT INCLUDING A FORMAL RESUME SHOWING QUALIFICATIONS. IN THE EVENT THE SUPERINTENDENT WILL NOT BE PRESENT FOR ANY PERIOD OF TIME DURING CONTRACT WORK THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE IN WRITING TO THE DEPARTMENT, INCLUDING THE APPOINTMENT OF A QUALIFIED REPLACEMENT SUPERINTENDENT WHO WILL BE PRESENT DURING THE CONSTRUCTION. WORK SHALL NOT BE ALLOWED TO PROCEED UNLESS THE ASSIGNED SUPERINTENDENT IS PRESENT.

7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE HIS COMPLETE FAMILIARITY WITH THE PROJECT SITE AND COMPONENTS TO INCLUDE SUBSURFACE CONDITIONS OF SOIL AND GROUNDWATER TABLE.

WARNING: EXACT LOCATION OF UNDERGROUND UTILITIES IS NOT KNOWN NOR IS THIS DRAWING TO BE CONSTRUED AS DEPICTING THE LOCATION OF ALL UNDERGROUND UTILITIES OR STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINATION OF LOCATION PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR IS RESPONSIBLE, THEREFORE, FOR ALL DAMAGE AND REPAIR COSTS.

MARTIN COUNTY CONSTRUCTION STANDARDS & DETAILS GENERAL NOTES, SPECIFICATIONS

GENERAL NOTES (Cont.):

8. DENSITY TESTS OF TRENCH BACKFILL MATERIAL SHALL BE REQUIRED AT INTERVALS OF NOT MORE THAN 500 FEET. DENSITY TESTS OF PAVEMENT OPEN—CUT AREAS INCLUDING ROADS, TURNLANES, AND DRIVES SHALL BE REQUIRED AT EACH OPEN—CUT AT INTERVALS OF NOT MORE THAN 50 FEET. ALL TESTS SHALL COMMENCE AT THE TOP OF CONDUIT AND EVERY 12 INCHES TO THE FINISH GRADE. COMPACTION SHALL BE IN ACCORDANCE WITH MARTIN COUNTY UTILITIES CONSTRUCTION STANDARDS "TYPICAL TRENCH DETAIL" AND "FLEXIBLE PAVEMENT REPLACEMENT DETAIL". FLORIDA BEARING TESTS FOR THE STABILITY OF EXISTING SUBSOIL SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 500 FEET, AND CLOSER AS MIGHT BE NECESSARY IN THE EVENT OF VARIATIONS IN THE STRATA. A CERTIFIED COPY OF THE TESTS SHALL BE PROVIDED TO THE DEPARTMENT AND THE FLORIDA DEPARTMENT OF TRANSPORTATION OR MARTIN COUNTY ENGINEERIN DEPARTMENT DEPENDING ON JURISDICTION. CONTRACTORS BID PRICE SHALL INCLUDE PAYMENT FOR

9. ANY LANDSCAPING DISTURBED, UNLESS OTHERWISE SHOWN ON THE PLANS, SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTORS

PLANS, SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 psi AT 28 DAYS AND ALL CONCRETE WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE AMERICAN CONCRETE INSTITUTE (ACI) BUILDING CODE AND THE APPLICABLE BUILDING CODES HAVING JURISDICTION IN THE AREA. ALL CONSTRUCTION SHALL MEET ADA REQUIREMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, DETECTABLE WARNING SURFACES. ALL SOD IS TO BE PLACED FOR THE FULL WIDTH DISTURBED AT THE PER LINEAR FOOT UNIT PRICE FOR SOD. SOD SHALL BE REPLACED TO MATCH EXISTING KIND UNLESS OTHERWISE SHOWN

12. CONTRACTOR SHALL PROVIDE PROPER BENDS TO MAINTAIN REQUIRED DEPTH AND ALIGNMENT OF PIPE. COST OF BENDS NOT DESIGNATED ON PLANS SHALL BE INCLUDED WITH THE UNIT PRICE FOR PIPE.

ANY TREES AND/OR SCRUB OR OTHER VEGETATION NOT TO BE REPLACED SHALL BE REMOVED FROM THE PROJECT AT THE CONTRACTOR'S EXPENSE.

4. ALL RUBBLE AND UNSUITABLE MATERIAL MUST BE REMOVED FROM THE PROJECT AND DISPOSED OF PROPERLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

16. DEFLECT PIPE AS NECESSARY TO OBTAIN THE REQUIRED ALIGNMENT. USE APPROPRIATE FITTINGS WHEN DEFLECTION EXCEEDS 75% OF MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION.

17. ALL FITTINGS SHALL BE MECHANICALLY RESTRAINED. REFER TO MARTIN COUNTY UTILITIES

DEPARTMENT MINIMUM DESIGN & CONSTRUCTION STANDARDS (LATEST EDITION). 8. ALL CONSTRUCTION DEWATERING (WELL POINTS, SUMPS, ETC.) WILL REQUIRE A DEWATERING PERMIT FROM SOUTH FLORIDA WATER MANAGEMENT DISTRICT. THIS SHALL BE OBTAINED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE PRIOR TO BEGINNING OF CONSTRUCTION. 19. THE "TRENCH SAFETY ACT" SHALL BE INCORPORATED INTO THIS CONTRACT AS ENACTED BY THE LEGISLATURE OF THE STATE OF FLORIDA TO BE IN EFFECT AS OF OCTOBER 1, 1990. 20. A U-2 PERMIT IS REQUIRED FOR ALL WORK WITHIN COUNTY RIGHT-OF-WAY. THIS PERMIT

MUST BE OBTAINED BY THE CONTRACTOR FROM THE MARTIN COUNTY ENGINEERING DEPARTMENT.
ALL COSTS PAYABLE BY THE CONTRACTOR. A COPY OF THIS PERMIT MUST BE MAINTAINED ON THE
PROJECT SITE AT ALL TIMES DURING CONSTRUCTION. 21. ALL CONCRETE AND ASPHALT DRIVES MUST BE REPLACED FROM SAW CUT TO EDGE OF PAVEMENT.

MARTII	N COUNTY CONSTRUCTION STANDARDS & DETAILS	
REVISION	GENERAL NOTES, SPECIFICATIONS	DWG No
AUGUST 2016	AND SEPARATION STATEMENT	1B

GENERAL NOTES (Cont.):

22. LOCATIONS OF FIRE HYDRANTS AND AIR RELEASE VALVES ARE APPROXIMATE ONLY. FINAL LOCATIONS WILL BE DETERMINED BY DEPARTMENT PERSONNEL IN FIELD. MAXIMUM LENGTH OF WATER MAIN AND FORCE MAIN PRESSURE TEST SHALL BE 1500 FE WATER SOURCE FOR FLUSHING, FILLING AND PRESSURE TESTING THE WATER MAIN SHALL BE FROM A TREATED SOURCE APPROVED BY THE DEPARTMENT.

24. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND RESTORATION (IF DAMAGED) OF ALL EXISTING STRUCTURES WITHIN THE CONSTRUCTION LIMITS OF THE PROJECT, INCLUDING BUT NOT LIMITED TO WALLS, FENCES, POWER POLES, MAIL BOXES, DRAINAGE PIPES AND STRUCTURES, ETC. 25. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING WATER SERVICES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROTECT THE EXISTING WATER SERVICES FROM DAMAGE AND REPAIR ANY BREAKS IMMEDIATELY. 26. "RECORD DRAWINGS" SHALL INCLUDE FURNISHING MARTIN COUNTY UTILITIES DEPARTMENT WITH ALL INFORMATION NECESSARY FOR A COMPLETE SET OF RECORD DRAWINGS AS STIPULATED IN THE

MARTIN COUNTY UTILITIES DEPARTMENT MINIMUM DESIGN AND CONSTRUCTION STANDARDS (LATEST 27. MECHANICALLY RESTRAIN LENGTHS, AS INDICATED ON DRAWING No. 20, ON EACH SIDE OF ALL BENDS AND AS INSTRUCTED IN MARTIN COUNTY UTILITIES DEPARTMENT SPECIFICATIONS.
MECHANICAL RESTRAINTS SHALL BE EITHER MEG—A—LUG, TYLER OR UNIFLANGE. THE CONTRACTORS BID PRICE FOR PIPE, GATE VALVES AND FITTINGS SHALL INCLUDE MECHANICAL RESTRAINT. 28. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL SUPPORT UTILITIES AND SHORE TRENCH AS REQUIRED TO PROTECT AND MAINTAIN EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY EACH UTILITY PRIOR TO ATTEMPTING TO SUPPORT THEIR FACILITIES. IF THE UTILITY REQUIRES THAT ONLY THEIR CREWS SHALL BE ALLOWED TO SUPPORT THEIR FACILITIES, THEN IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE WORK AND PAY THE UTILITY FOR THEIR EXPENSES IF REQUIRED. LL COSTS FOR THIS WORK SHALL BE AT THE CONTRACTORS EXPENSE AND INCLUDED IN THE

29. ALL PRESSURE TESTS SHALL BE IN ACCORDANCE WITH AWWA STANDARDS. 30. AIR RELEASE VALVE VAULT COVERS SHALL BE CONSTRUCTED PER DETAIL AS SHOWN IN THE DEPARTMENTS MINIMUM DESIGN AND CONSTRUCTION STANDARDS. 31. ALL WATER SERVICES SHALL BE DIRECTIONALLY DRILLED UNDER EXISTING PAVEMENT. 32. VALVE STEM RISER SHALL BE REQUIRED WHERE OPERATING NUT DEPTH EXCEEDS 4 FEET. THE RISER SHALL BE BOLTED TO THE VALVE NUT. METHOD AND MATERIALS SHALL BE APPROVED BY THE DEPARTMENT. COST FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACTORS BID UNIT PRICE FOR GATE VALVES.

33. THE CONTRACTOR SHALL CLEAN MAINS USING APPROVED POLYURETHANE PIG(S). TEMPORARY CLEANING STATIONS SHALL BE CONSTRUCTED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE A CLEANING PLAN SHOWING METHOD OF FILLING AND CLEANING MAINS PRIOR TO START OF CONSTRUCTION. THE CLEANING PLAN SHALL BE APPROVED BY THE DEPARTMENT PRIOR TO BE MAINTAINED ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION. 35. THE CONTRACTOR SHALL INSTALL TESTING POINTS FOR PRESSURE & BACTERIOLOGICAL TESTING OF WATER MAINS. THE CONTRACTOR SHALL INSTALL AND REMOVE AND PLUG CORP. STOPS PER MARTIN COUNTY UTILITIES STANDARDS "SAMPLE POINT DETAIL". THE LOCATION OF TEST POINTS SHALL BE APPROVED BY THE DEPARTMENT.

MARTI	N COUNTY CONSTRUCTION STANDARDS & DETAILS	
EVISION	GENERAL NOTES, SPECIFICATIONS	DW
AUGUST 2016	AND SEPARATION STATEMENT	1

GENERAL NOTES (Cont.):

36. WATER MAIN DISINFECTION SHALL BE IN ACCORDANCE WITH CURRENT AWWA, BULLETIN WATER MAINS AND APPURTENANCES SHALL BE IN ACCORDANCE WITH CURRENT AWWA, FDEP AND NSF STANDARDS.

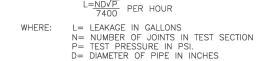
38. MINIMUM COVER TO FINISHED GRADE OVER WATER MAINS SHALL BE 30 INCHES UP TO

8" DIAMETER; 10" OR LARGER SHALL HAVE 36" COVER OR GREATER TO PROVIDE A MINIMUM

18" COVER OVER OPERATING NUT OF GATE VALVES. 39. ALL MAINS SHALL BE TESTED FOR LEAKAGE. WATER SHALL BE SUPPLIED TO THE MAIN AND PUMPED TO THE REQUIRED 150 PSI PRESSURE. THE MAIN TESTED SHALL EITHER BE ISOLATED FROM PRESENTLY POTABLE LINES OR PROTECTED FROM LEAKAGE BY A DOUBLE VALVE ARRANGEMENT.

40. NEWLY CONSTRUCTED FIRE HYDRANTS THROUGHOUT THE PROJECT SHALL HAVE A RED "OUT OF SERVICE" DISK (JOSEPH G. POLLARD CO. OR EQUAL) ATTACHED TO 4" PUMPER NOZZLE CAP. DISK TO BE REMOVED AFTER WATER SYSTEM HAS BEEN APPROVED FOR SERVICE BY THE DEPARTMENT.

THE DEPARTMENT SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY TESTING PROCEDURES. AFTER FLUSHING IS COMPLETED, LINE PRESSURE SHALL BE APPLIED TO THE WATER SYSTEM TO DETERMINE IF ANY MAJOR DEFECTS ARE PRESENT. THE COMPLETE WATER SYSTEM SHALL THEN BE TESTED AT A PRESSURE OF 150 PSI FOR A PERIOD OF NOT LESS THAN TWO HOURS. THE DEPARTMENT MAY, AT ITS DISCRETION, INCREASE THE PERIOD TO FOUR HOURS. MAXIMUM LENGTH OF LINE TO BE TESTED AT ONE TIME SHALL NOT EXCEED 1500 LINEAR FEET. AN OIL FILLED PRESSURE GAUGE UP TO 200 PSI AT 2 POUND INCREMENTS SHALL BE USED FOR ALL PRESSURE TESTS. NO VISIBLE MOVEMENT OF THE SYSTEM SHALL OCCUR AND LEAKAGE SHALL NOT EXCEED:



NOTE: MARTIN COUNTY UTILITIES DEPARTMENT'S MINIMUM DESIGN AND CONSTRUCTION STANDARDS (LATEST EDITION), ARE TO BE ADHERED TO AND WILL BE ENFORCED TO AT LEAST THESE MINIMUM STANDARDS.

> 48 HOURS BEFORE DIGGING -800-432-477 SUNSHINE STATE ONE CAL OF FLORIDA, INC INDERGROUND UTILITIES NOTIFICATION CENTER

MARTI	N COUNTY CONSTRUCTION STANDARDS & DETAILS	
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storm sewer shall be laid so the outside of the water main is at least six inches, and preferable 12 inches, above or at least 12 inches below the outside of the other pipeline. However, it is preferable to lay the water main above the other pipeline. (b) New or relocated, underground water mains crossing any existing or proposed pressure—type sanitary sewer, wastewater or stormwater force main, or pipeline conveying reclaimed water shall be laid as the outside of the water main is at least 12 inches above or below the outside of the other pipeline. However, it is preferable to lay the water main above the other pipeline. (c) At the utility crossings described in paragraphs (a) and (b) above, one full length of water main pipe shall be centered above or below the other pipeline so the water main joints are at least three ferrom all joints in vacuum—type sanitary sewers, storm sewers, stormwater force mains, or pipelines conveying reclaimed water regulated under Part III of Chapter 62–610, F.A.C., and at least six feet from all joints in gravity—or pressure—type sanitary sewers, wastewater force mains, or pipelines conveying reclaimed water regulated under Part III of Chapter 62–610, F.A.C.

(3) Separation Between Water Mains and Sanitary or Storm Sewer Manholes.

(a) No water main shall pass through, or come into contact with, any part of a storm sewer manhole or inlet structure. Where it is not technically feasible or economically sensible to comply with this requirement (i.e., where there is a conflict in the routing of a water main and a storm sewer and where alternative routing of the water main or the storm sewer is not technically feasible or is not economically sensible to dwater or persons proposing to construct conflict manholes must first obtain a specific permit from the Department in accordance with Part V of this chapter and must provide in the preliminary design report or drawings, specifications, and design data accompanying their permit application the following information:

1. Technical or eco the following information:

1. Technical or economic justification for each conflict manhole.

2. A statement identifying the party responsible for maintaining each conflict manhole.

3. Assurance of compliance with the design and construction requirements in sub-subparagraphs a through d below.

a. Each water main passing through a conflict manhole shall have a flexible, watertight joint on each side of the manhole to accommodate differential settling between the main and the manhole.

b. Within each conflict manhole, the water main passing through the manhole shall be installed in a watertight casing pipe having by impact streath (i.e. having an impact streath that least event to that of 0.25 inches thick duttal irra prior the control final final field of all storm sewer inlets upstream of each conflict manhole to prevent large objects from entering the manhole.

(4) Separation Between Fire Hydrant Drains and Sanitary or Storm Sewers, Wastewater or Stormwater Force Mains, Reclaimed Water Pipelines, and On-Site Sewage Treatment and Disposal Systems. New or relocated fire hydrants with underground drains shall be located so that the drains are at least three feet from any existing or proposed storm sewer, stormwater force main, or pipeline conveying reclaimed water regulated under Part III of Chapter 82–810, F.A.C., at least three feet, and preferably ten feet, from any existing or proposed concurrence sonitary sewer, activated race at least stire feet, and preferably ten feet, from any existing or proposed growity— or pressure—type sanitary sewer, wastewater force main, or pipeline conveying reclaimed water not regulated under Part III of Chapter 82–810, F.A.C., and at least ten feet from any existing or proposed on-site sewage treatment and disposal system as defined in Section 381,008(2), F.S., and Rule 64E–6.002, F.A.C.

(5) Exceptions. Where it is not technically feasible or economically sensible to comply with the requirements in subsection (1) or (2) above, the Department shall allow exceptions to these requirements if suppliers of water or construction permit applicants provide technical or economic justification for each exception and provide alternative construction features that afford a similar level of reliability and public health protection. Acceptable alternative construction features include the following:

(a) Where an underground water main is crossing another pipeline and joints in the water main are being located less than the required minimum distance from joints in the other pipeline:

1. Use of pressure—rated pipe conforming to the American Water Works Association standards incorporated into Rule 62–555.330, F.A.C., for the other pipeline if it is a growity—or vacuum—type pipeline; or 3. Use of watertight co

STANDARD WATER/SEWER SEPARATION STATEMENT

62-555.314 Location of Public Water System Mains.
For the purpose of this section, the phrose water mains shall mean mains, including treatment plant process piping, conveying either raw, partially treated, or finished drinking water, fire hydront leads; and service lines that are under the control of a public water system and that have an inside diameter of three inches or greater.

(1) Horizontal Separation Between Underground Water Mains and Sonitary or Storm Sewers, Wastewater or Stormwater Force Mains, Reclaimed Water Pipelines, and On-Site Sewage Treatment and Disposal Systems.

(a) New or relocated, underground water mains shall be laid to provide a horizontal distance of at least three feet between the outside of the water main and the outside of any existing or proposed storm sewer, Stormwater force main, or pipeline conveying reclaimed water regulated under Part III of Chapter 62-610, F.A.C.

reciaimed water regulated under Part III of Chopter 62—610, F.A.C.

(b) New or relocated, underground water mains shall be laid to provide a horizontal distance of at least three feet, and preferably ten feet, between the outside of the water main and the outside of any existing or proposed vacuum—type sanitary sewer.

(c) New or relocated, underground water mains shall be laid to provide a horizontal distance of at least six feet, and preferably ten feet, between the outside of the water main and the outside of any existing or proposed gravity—or pressure—type sanitary sewer, wastewater force main, or pipeline conveying reclaimed water not regulated under Part III of Chapter 62—610, F.A.C. The minimum horizontal separation distance between water mains and gravity—type sanitary sewers shall be reduced to three feet where the bottom of the water main is laid at least six inches above the top of the sewer.

(d) New or relocated, underground water mains shall be laid to provide a horizontal distance of at least to the text that the control of the sewer.

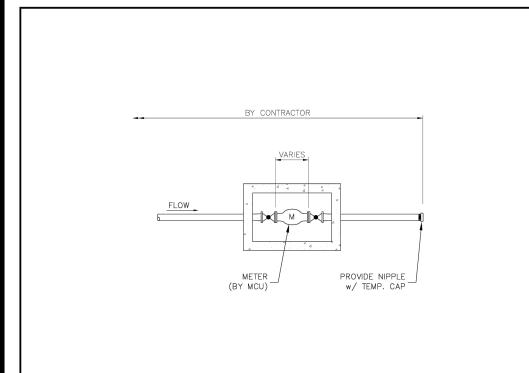
(d) New or relocated, underground water mains shall be laid to provide a horizontal distance of at least ten feet between the outside of the water main and all parts of any existing or proposed on-site sewage treatment and disposal system as defined in Section 381.0065(2), F.S., and Rule 64E-6.002, F.A.C.

(2) Vertical Separation Between Underground Water Mains and Sanitary or Storm Sewers, Wastewater or Stormwater Force Mains, and Reclaimed Water Pipelines.

(a) New or relocated, underground water mains crossing any existing or proposed gravity— or vacuum—type sanitary sewer or storm sewer shall be laid so the outside of the water main is at least six inches, and preferably 12 inches, above or at least 12 inches below the outside of the other pipeline. However, it is preferable to lay the water main above the other pipeline.

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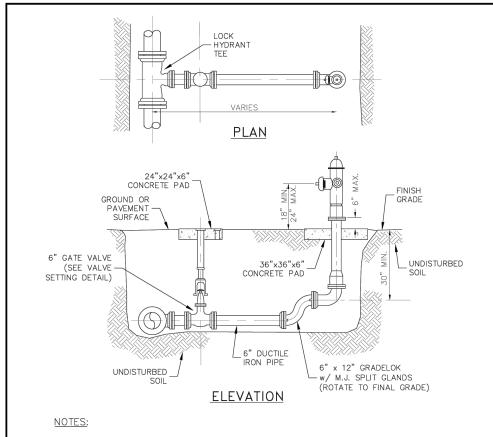
EXISTING GROUND



NOTES: . ALL VALVES TO BE STRAIGHT 1-1/2" BALL VALVES FOR 1-1/2" METER AND 2" BALL VALVES FOR 2" METER WITH LOCK-WING. (FLANGE AT METER) FORD OR APPROVED EQUAL

- 2. SEE TYPICAL SERVICE DETAIL FOR MAIN CONNECTION. 3. METER BOX SHALL BE POLYMER CONCRETE AND FIBER REINFORCED POLYESTER.
- 4. PIPING SHALL BE 1-1/2" HDPE FOR 1-1/2" METER AND 2" HDPE FOR 2" METER, DR 9 WITH BRONZE COMPRESSION FITTINGS.

MARTI	N COUNTY CONSTRUCTION STANDARDS & DETAILS	
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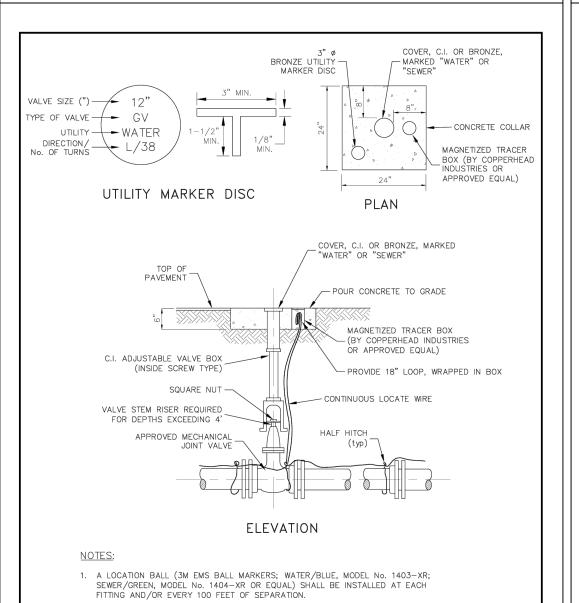
. HYDRANTS SHALL BE INSTALLED PLUMB AND TRUE. . VALVES SHALL BE PLACED ADJACENT TO MAIN, AND TIED TO TEE. . ANCHOR TEES ARE REQUIRED.

ALL HYDRANTS SHALL BE TEE'D OFF OF MAIN.
HYDRANTS SHALL NOT BE PLACED IN SIDEWALK, ROADWAYS OR BIKEPATHS.
PIPE FROM VALVE TO HYDRANT SHALL BE RESTRAINED.
HYDRANT BARREL AND BONNET COLOR TO BE OSHA YELLOW. THE CONNECTOR PIPE SHALL BE CEMENT LINED DUCTILE IRON, CLASS 350 AND POSITIONED BETWEEN THE FIRE HYDRANT AND GATE VALVE.
THE CONNECTOR PIPE SHALL HAVE AN ANCHORING FEATURE AT BOTH ENDS SO THAT WHEN USED WITH M.J. SPLIT GLANDS A RESTRAINED JOINT IS PROVIDED.

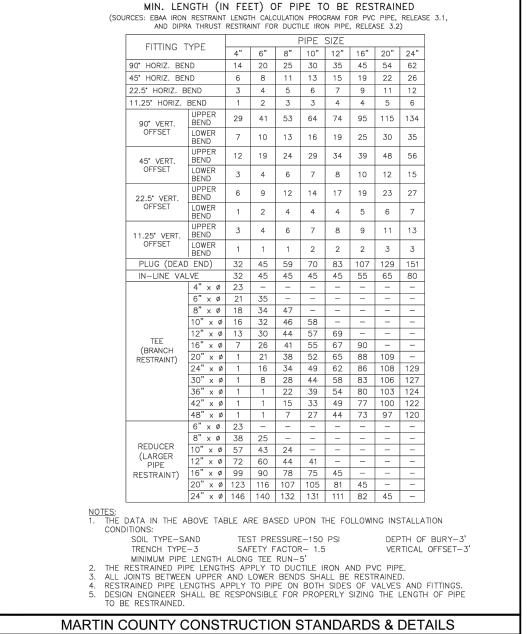
 10. HYDRANT EXTENSIONS SHALL NOT BE ALLOWED.
 11. NEWLY CONSTRUCTED FIRE HYDRANTS THROUGHOUT THE PROJECT SHALL HAVE A RED "OUT OF SERVICE" DISK (JOSEPH G. POLLARD CO. OR EQUAL) ATTACHED TO 4" PUMPER NOZZLE CAP. DISK TO BE REMOVED AFTER WATER SYSTEM HAS BEEN APPROVED FOR SERVICE BY THE DEPARTMEN' 12. A MAXIMUM OF 20 FEET OF HORIZONTAL PIPE SHALL TYPICALLY BE INSTALLED BETWEEN THE 6"
GATE VALVE AT THE WATER MAIN AND THE HYDRANT. IF IT IS NECESSARY TO INSTALL MORE THAN

MARTII	N COUNTY CONSTRUCTION STANDARDS & DETAILS	
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20 FEET OF HORIZONTAL PIPE, AN ADDITIONAL 6" GATE VALVE WILL BE REQUIRED AT THE



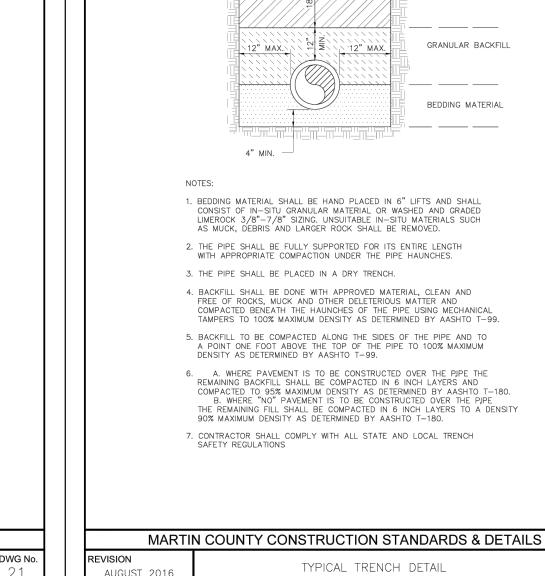
FOR DEEP VALVE INSTALLATIONS, A 6" C-900 PVC EXTENSION MAY BE USED TO BRING VALVE BOX TO GRADE. MARTIN COUNTY CONSTRUCTION STANDARDS & DETAILS VALVE SETTING DETAIL AUGUST 2016

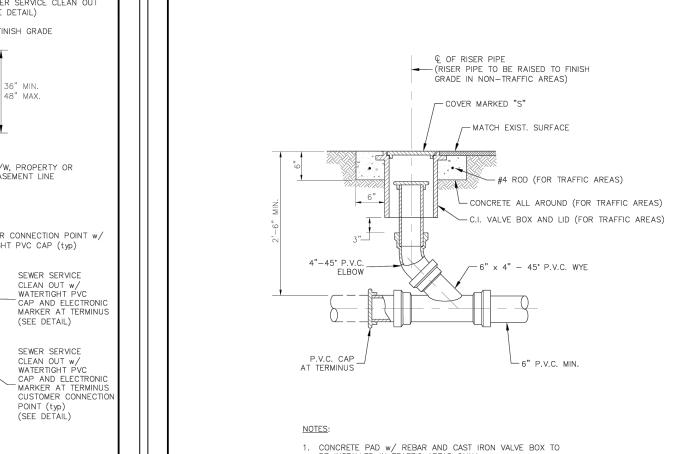


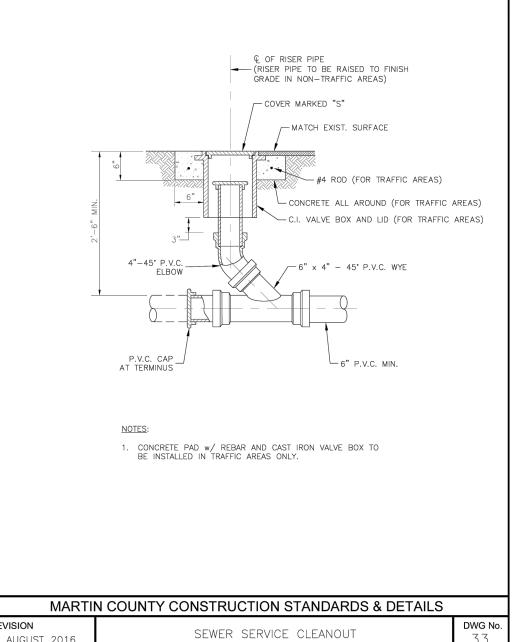
MECHANICAL JOINT ANCHORING

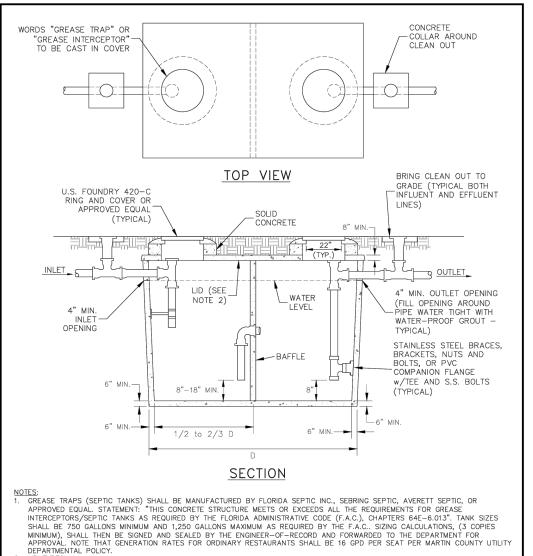
REQUIREMENTS

AUGUST 2016



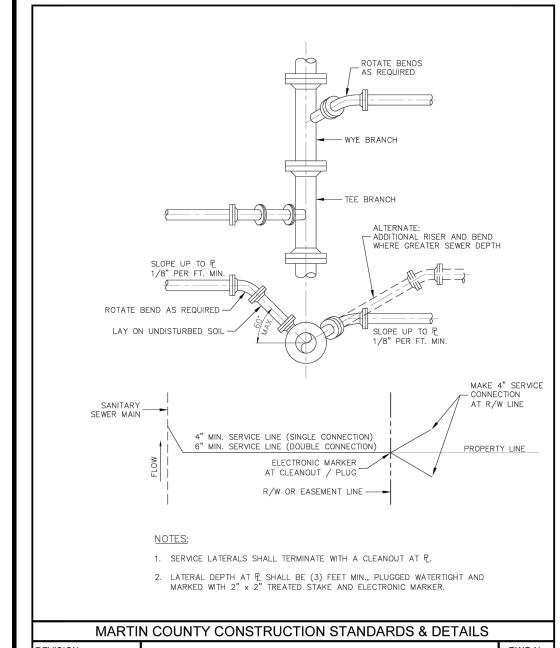




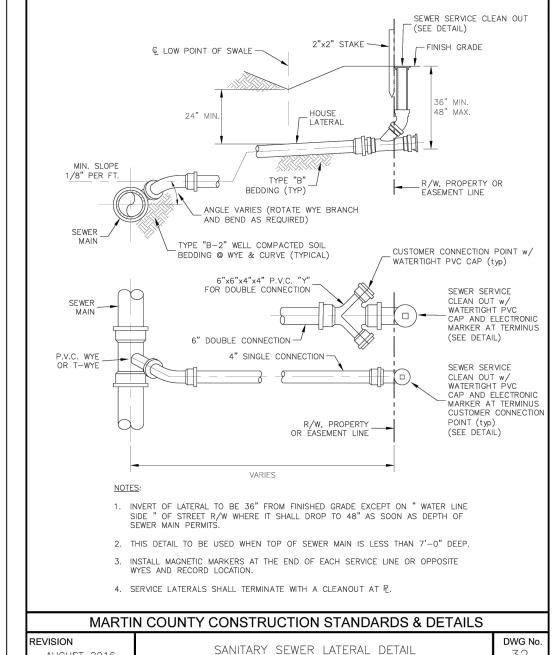


GENERAL NOTES:

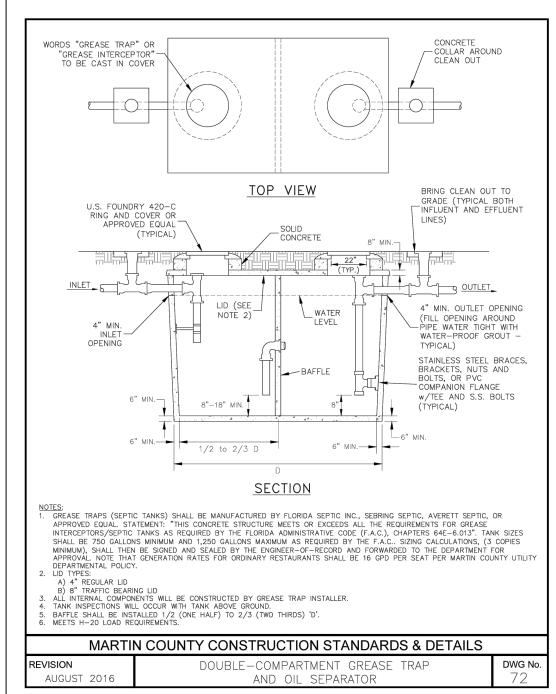
- 1. MARTIN COUNTY IS THE WATER AND WASTEWATER UTILITY SERVICE PROVIDER FOR THIS PROJECT.
- 2. ALL WATER AND WASTEWATER UTILITY INSTALLATIONS SHALL COMPLY WITH THE MINIMUM DESIGN & CONSTRUCTION STANDARDS OF THE MARTIN COUNTY UTILITIES AND SOLID WASTE DEPARTMENT, LATEST EDITION.
- 3. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLANS IS APPROXIMATE AND BASED ON AVAILABLE AS-BUILT AND GIS MAP DATA AND HAS NOT BEEN VERIFIED. OTHER UTILITIES WHICH ARE NOT SHOWN ON THE PLANS MAY BE PRESENT. THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES WITHIN THE PROXIMITY OF THE SCOPE OF WORK PRIOR TO THE START OF CONSTRUCTION. ALL EXISTING UTILITIES SHALL REMAIN AND BE PROTECTED UNLESS OTHERWISE NOTED ON THE PLANS.



TYPICAL SEWER SERVICE CONNECTION



AUGUST 2016



SEAL FOR THE FIRM, BY: MATTHEW GIANI P.E. FEBRUARY 2023

AUGUST 201

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DRAWN BY: MJG

CHECKED BY: JFD

DESIGNED BY: MJG

SCALE: N.T.S.

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APPROVED BY: S.D.A

FLA. P.E. No. 84229