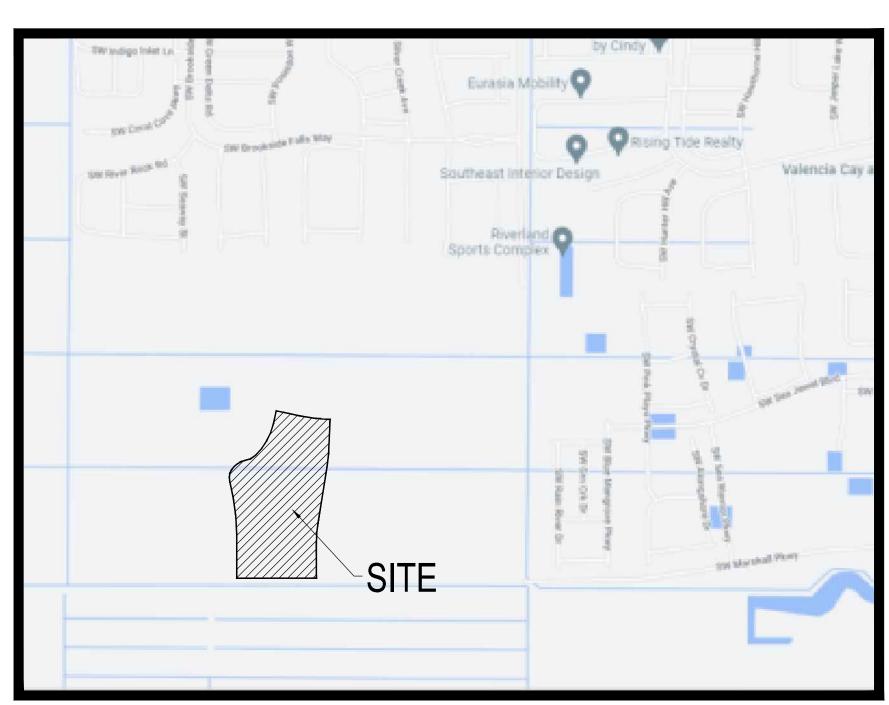
RIVERLAND PARCEL D

PLAT FOUR

CIVIL CONSTRUCTION PLANS & SPECIFICATIONS SECTIONS 20, TOWNSHIP 37 S, RANGE 39 E CITY OF PORT ST. LUCIE, FLORIDA



LOCATION MAP

LEGAL DESCRIPTION:

BEING A PARCEL OF LAND LYING WITHIN SECTION 20, TOWNSHIP 37 SOUTH, RANGE 39 EAST, CITY OF PORT ST. LUCIE, ST. LUCIE COUNTY, FLORIDA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE SOUTHWEST CORNER OF TRACT "OS11", RIVERLAND PARCEL D - PLAT ONE, AS RECORDED IN PLAT BOOK 118, PAGE 1, PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA; THENCE NORTH 89°52'25" WEST, ALONG THE NORTH LINE OF EW #3 RIGHT-OF-WAY AS RECORDED IN OFFICIAL RECORDS BOOK 2972, PAGE 802, SAID PUBLIC RECORDS, A DISTANCE OF 829.88 FEET; THENCE ALONG THE BOUNDARY OF SAID RIVERLAND PARCEL D PLAT ONE FOR THE FOLLOWING TWENTY (20) DESCRIBED COURSES, NORTH 00°07'35" EAST, A DISTANCE OF 463,25 FEET TO THE POINT OF CURVATURE OF A CURVE, CONCAVE WESTERLY, HAVING A RADIUS OF 1832.00 FEET, A CENTRAL ANGLE OF 11°43'13"; THENCE NORTHERLY ALONG THE ARC OF SAID CURVE TO THE LEFT, A DISTANCE OF 374.75 FEET TO A POINT OF TANGENCY; THENCE NORTH 11°35'38" WEST, A DISTANCE OF 183.39 FEET TO THE POINT OF CURVATURE OF A CURVE, CONCAVE EASTERLY, HAVING A RADIUS OF 155.82 FEET, A CENTRAL ANGLE OF 60°25'31"; THENCE NORTHERLY ALONG THE ARC OF SAID CURVE TO THE RIGHT, A DISTANCE OF 164.33 FEET TO A POINT OF TANGENCY; THENCE NORTH 48°49'53" EAST, A DISTANCE OF 38.64 FEET TO THE POINT OF CURVATURE OF A CURVE, CONCAVE SOUTHEASTERLY, HAVING A RADIUS OF 150.00 FEET, A CENTRAL ANGLE OF 33°27'52"; THENCE NORTHEASTERLY ALONG THE ARC OF SAID CURVE TO THE RIGHT, A DISTANCE OF 87.61 FEET TO THE POINT OF REVERSE CURVATURE OF A CURVE, CONCAVE NORTHWESTERLY, HAVING A RADIUS OF 200.00 FEET, A CENTRAL ANGLE OF 36°53'44"; THENCE NORTHEASTERLY ALONG THE ARC OF SAID CURVE TO THE LEFT, A DISTANCE OF 128.79 FEET TO THE POINT OF COMPOUND CURVATURE OF A CURVE, CONCAVE NORTHWESTERLY, HAVING A RADIUS OF 680.00 FEET, A CENTRAL ANGLE OF 32°32'23"; THENCE NORTHEASTER ALONG THE ARC OF SAID CURVE TO THE LEFT, A DISTANCE OF 386.19 FEET TO A POINT OF TANGENCY; THENCE NORTH 12°51'38" EAST, A DISTANCE OF 133.60 FEET; THENCE SOUTH 77°08'22" EAST, A DISTANCE OF 95.00 FEET CENTRAL ANGLE OF 11°59'50"; THENCE EASTERLY ALONG THE ARC OF SAID CURVE TO THE LEFT, A DISTANCE OF 224,05 FEET TO THE POINT OF INTERSECTION WITH A NON-RADIAL LINE; THENCE SOUTH 02°48'34" WEST, A DISTANCE OF 4.31 FEET: THENCE SOUTH 87°11'26" EAST, A DISTANCE OF 95.00 FEET: THENCE SOUTH 02°48'34 WEST, A DISTANCE OF 359.85 FEET TO THE POINT OF CURVATURE OF A CURVE, CONCAVE WESTERLY, HAVING A RADIUS OF 1120.00 FEET, A CENTRAL ANGLE OF 06°18'02"; THENCE SOUTHERLY ALONG THE ARC OF SAID CURVE TO THE RIGHT, A DISTANCE OF 123.16 FEET TO A POINT OF TANGENCY; THENCE SOUTH 09°06'36" WEST, A DISTANCE OF 606.55 FEET TO THE POINT OF CURVATURE OF A CURVE, CONCAVE EASTERLY, HAVING A RADIUS OF 1380.00 FEET, A CENTRAL ANGLE OF 08°59'01"; THENCE SOUTHERLY ALONG THE ARC OF SAID CURVE TO THE LEFT, A DISTANCE OF 216.37 FEET TO A POINT OF TANGENCY; THENCE SOUTH 00°07'35" WEST, A DISTANCE OF 358.98 FEET TO THE POINT OF BEGINNING.



VICINITY \ AERIAL MAP

PLAN FOR RIVERLAND ASSOCIATES IV LLLP

ENGINEER & SURVEYOR



ENGINEERING & SURVEYING, LLC.

1449 NW COMMERCE CENTRE DR PORT ST. LUCIE, FL 34986 PHONE: (772) 879-0477

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
01	COVER SHEET
02 - 06	PAVING, GRADING & DRAINAGE PLANS
07 - 08	PAVING, GRADING & DRAINAGE DETAILS
09	CROSS SECTIONS
10	CLEARING AND SEDIMENT & EROSION CONTROL PLAN
11	STORMWATER POLLUTION PREVENTION PLAN
12	MASTER DRAINAGE PLAN

NOTE:

PSLUSD STANDARDS AND DETAILS EFFECTIVE 2019

GOVERNING DESIGN STANDARDS:

FLORIDA DEPARTMENT OF TRANSPORTATION, FY2023-24 STANDARDS PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IRS).

STANDARD PLANS FOR ROAD CONSTRUCTION AND ASSOCIATED IRS ARE AVAILABLE AT THE FOLLOWING WEBSITE:

http://www.fdot.gov/design/standardplans

APPLICABLE IRS:

GOVERNING STANDARD SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, 2023-24 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AT THE FOLLOWING WEBSITE:

http://www.dot.state.fl.us/programmanagement/Implemented/SpecBooks

GOVERNING SPECIFICATIONS:

CITY OF PORT ST. LUCIE PUBLIC WORKS DEPARTMENT ENGINEERING STANDARDS FOR LAND DEVELOPMENT (MOST CURRENT EDITION), AS AMENDED BY CONTRACT DOCUMENTS.

KNOW WHAT'S BELOVALWAYS CALL 81 BEFORE YOU DIG

CITY OF PSL PROJECT NO. P22-288 PSLUSD FILE NO. 5268D

KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG It's fast. It's free. It's the law.

SHEET TITLE

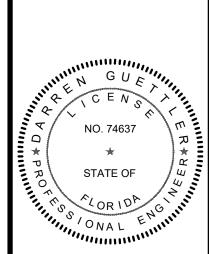
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SHEET NUME

CONTAINING 31.970 ACRES, MORE OR LESS.

PARCEL D
OUR
ST. LUCIE,

RIVERLAND SSOCIATES IV

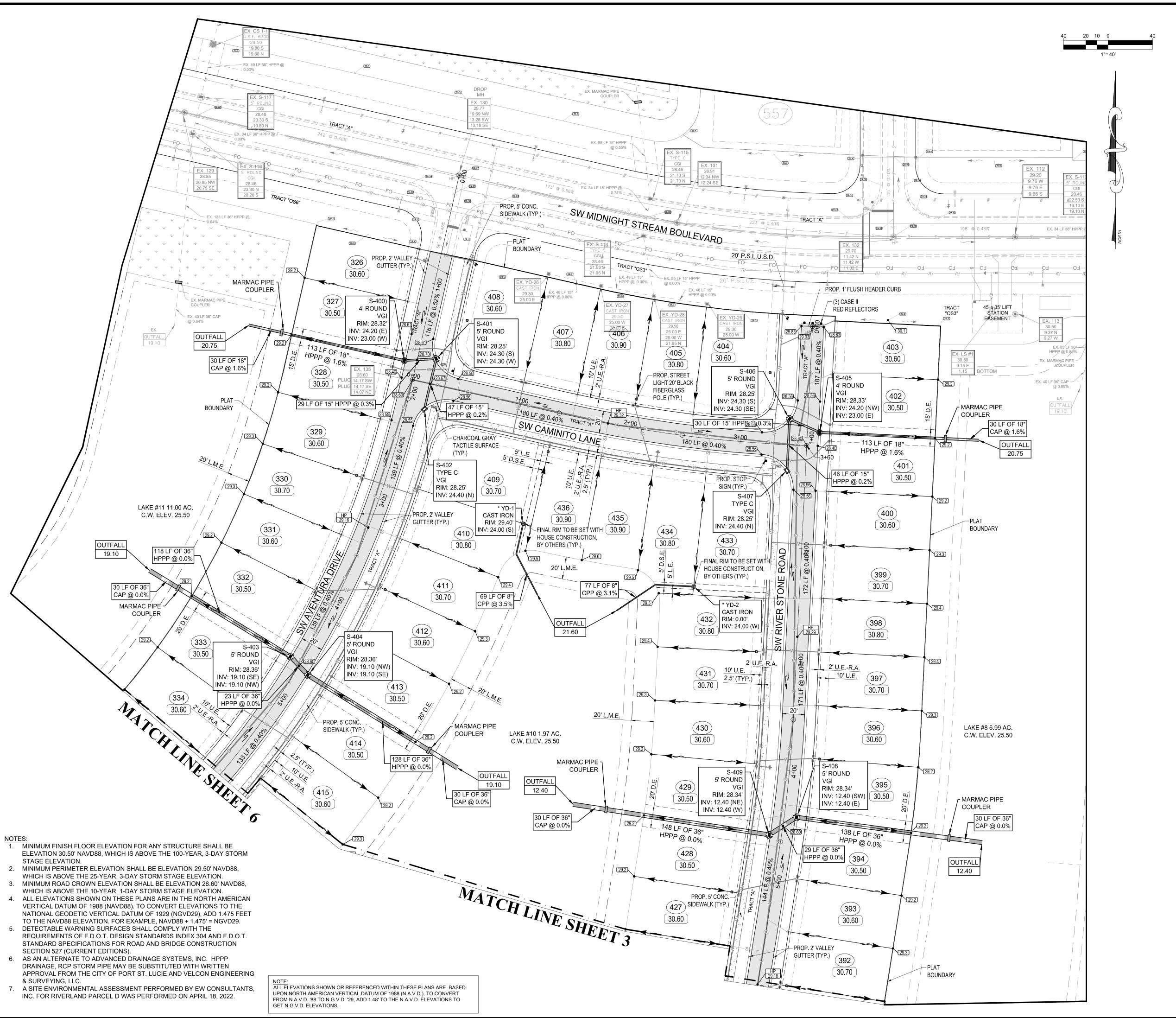


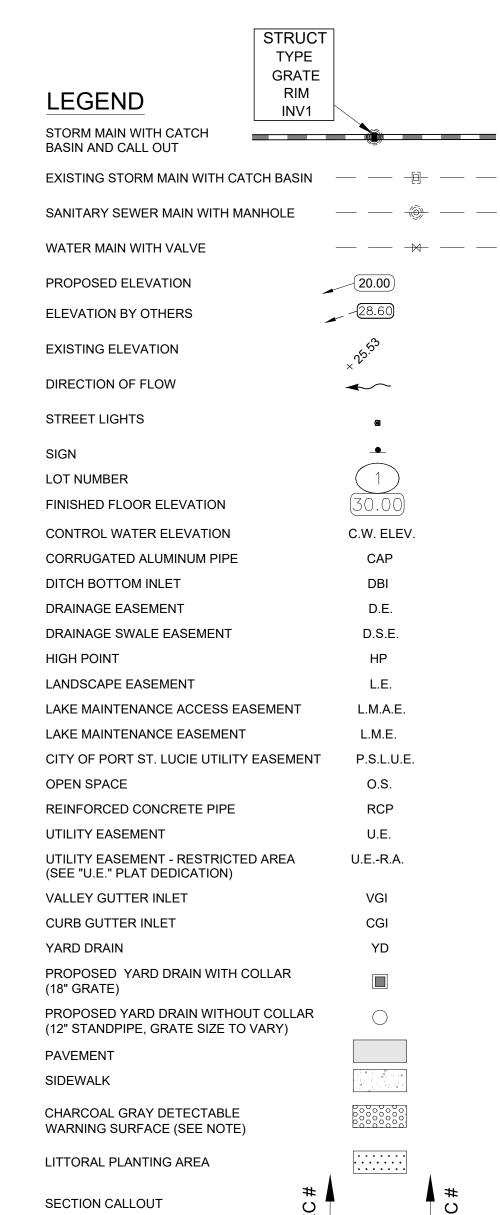
DARREN GUETTLER, PE FLORIDA LICENSE No. 74637 7/27/23

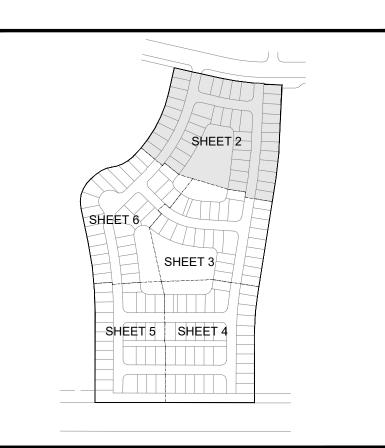
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DRAWN BY: SOG
CHECKED BY: DG
DATE: 07/21/2022
CAD I.D.: 22- 1022 - COVER

COVER SHEET

SHEET NUMBER:







KEY MAP

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CITY OF PSL PROJECT NO. P22-288

SHEET NUMBER:

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NGINEERING & SURVEYING, L 1449 NW COMMERCE CENTRE DR PORT ST. LUCIE, FL 34986

PHONE: (772) 879-0477 FBPE C.O.A. # 32222

COMMENT:

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REVISIONS:

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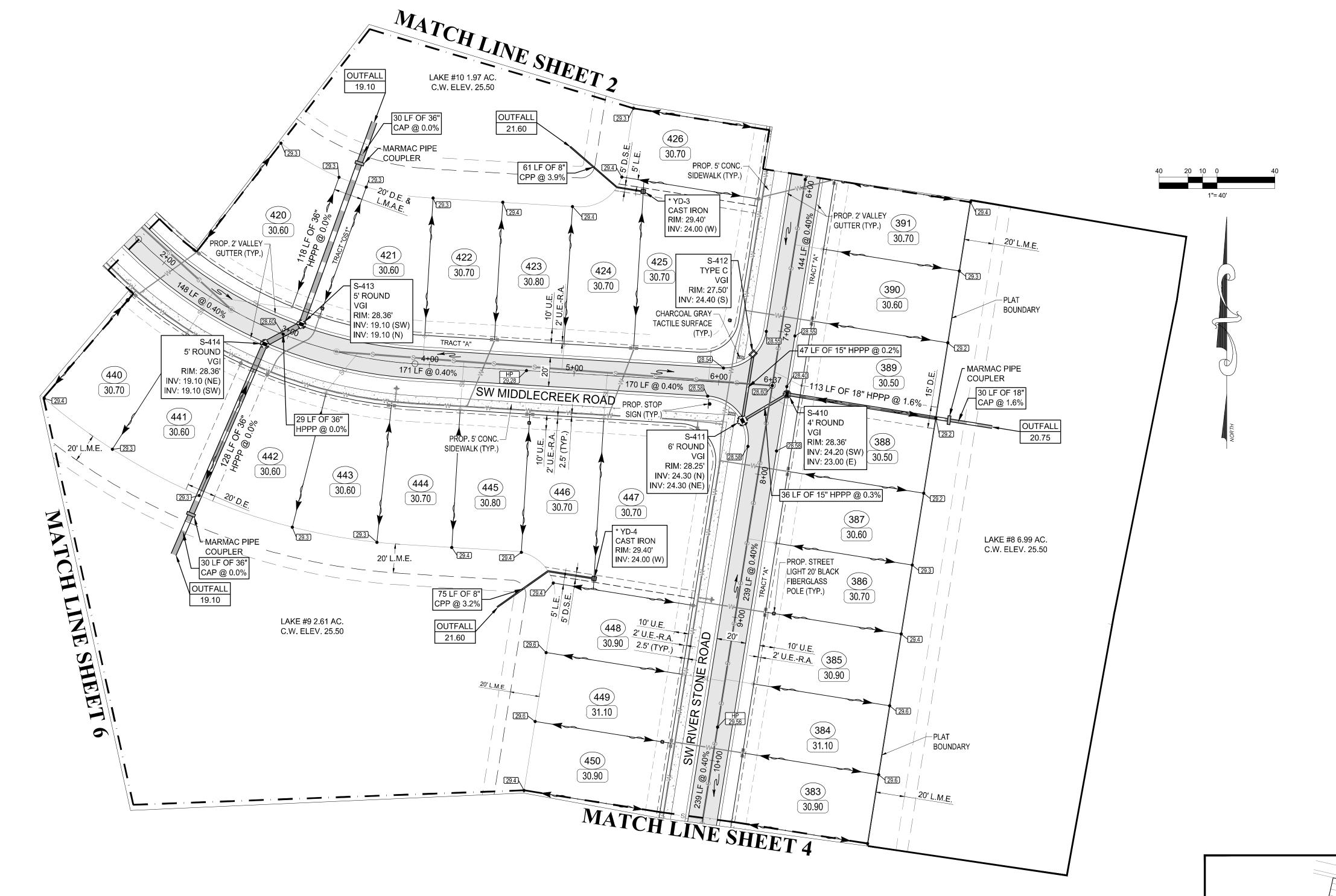
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SG 07/25/23

DARREN GUETTLER, PE FLORIDA LICENSE No. 74637

DRAWN BY: CHECKED BY: DATE: 07/21/2022 CAD I.D.: 22- 1022 - PGD PLAN

SHEET TITLE: PAVING, **GRADING & DRAINAGE PLAN**



PAVEMENT

SIDEWALK

CHARCOAL GRAY DETECTABLE

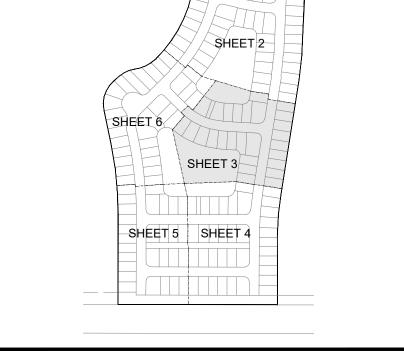
LITTORAL PLANTING AREA

SECTION CALLOUT

WARNING SURFACE (SEE NOTE)

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- 6. AS AN ALTERNATE TO ADVANCED DRAINAGE SYSTEMS, INC. HPPP DRAINAGE, RCP STORM PIPE MAY BE SUBSTITUTED WITH WRITTEN APPROVAL FROM THE CITY OF PORT ST. LUCIE AND VELCON ENGINEERING & SURVEYING, LLC.
- 7. A SITE ENVIRONMENTAL ASSESSMENT PERFORMED BY EW CONSULTANTS, INC. FOR RIVERLAND PARCEL D WAS PERFORMED ON APRIL 18, 2022.



KEY MAP

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CITY OF PSL PROJECT NO. P22-288 PSLUSD FILE NO. 5268D

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SHEET TITLE:

DARREN GUETTLER, PE

FLORIDA LICENSE No. 74637

DATE: 07/21/2022 CAD I.D.: 22- 1022 - PGD PLAN

PAVING,

GRADING &

DRAINAGE PLAN

1449 NW COMMERCE CENTRE DR PORT ST. LUCIE, FL 34986 PHONE: (772) 879-0477 FBPE C.O.A. # 32222

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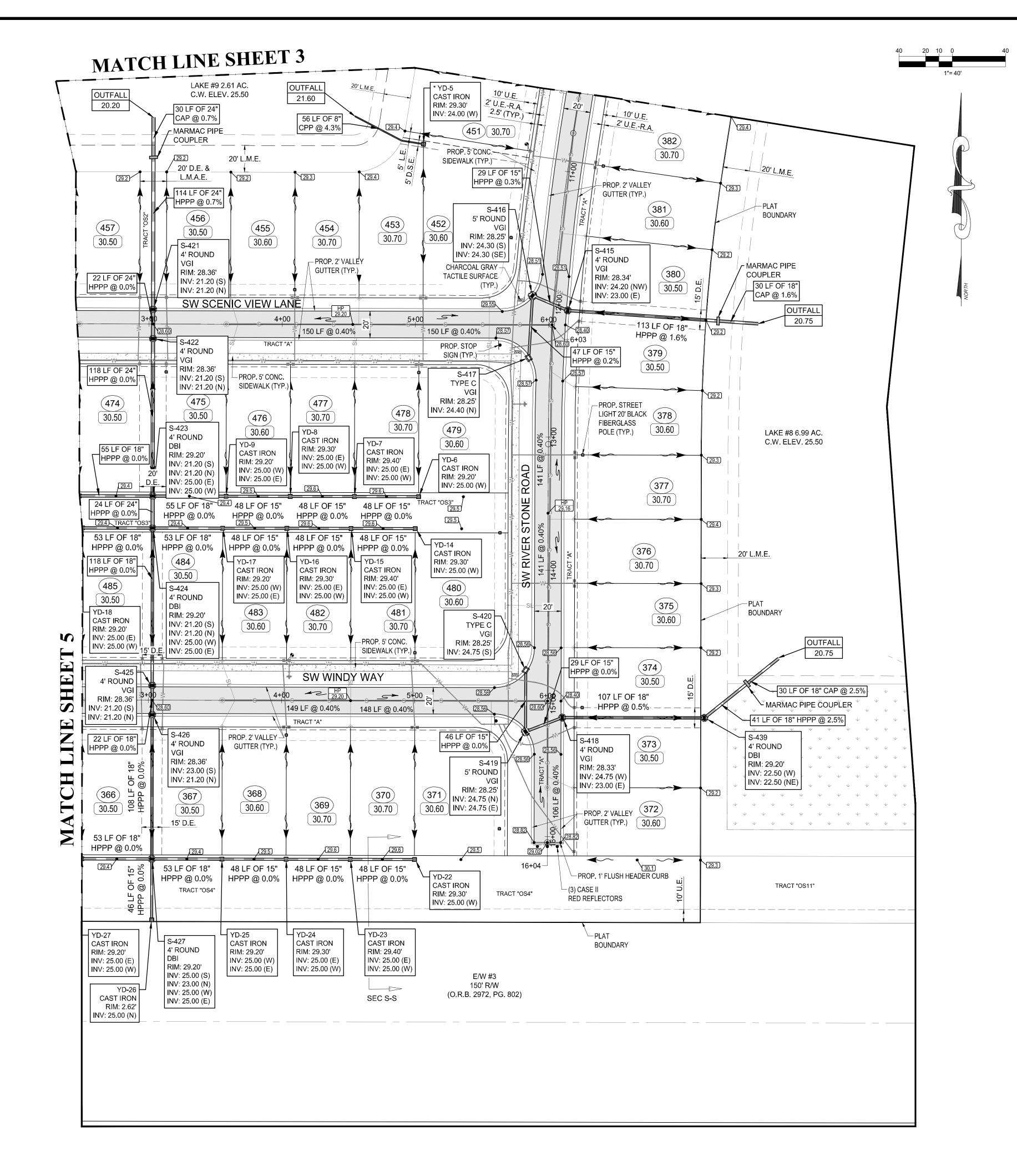
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DARREN GUETTLER, PE FLORIDA LICENSE No. 74637

DRAWN BY: CHECKED BY: DATE: 07/21/2022 CAD I.D.: 22- 1022 - PGD PLAN

PAVING, **GRADING &**

DRAINAGE PLAN SHEET NUMBER:

PSLUSD FILE NO. 5268D

SHEET 2

SHEET 3

SHEET 5 SHEET 4

KEY MAP

SHEET 6

ALL ELEVATIONS SHOWN OR REFERENCED WITHIN THESE PLANS ARE BASED

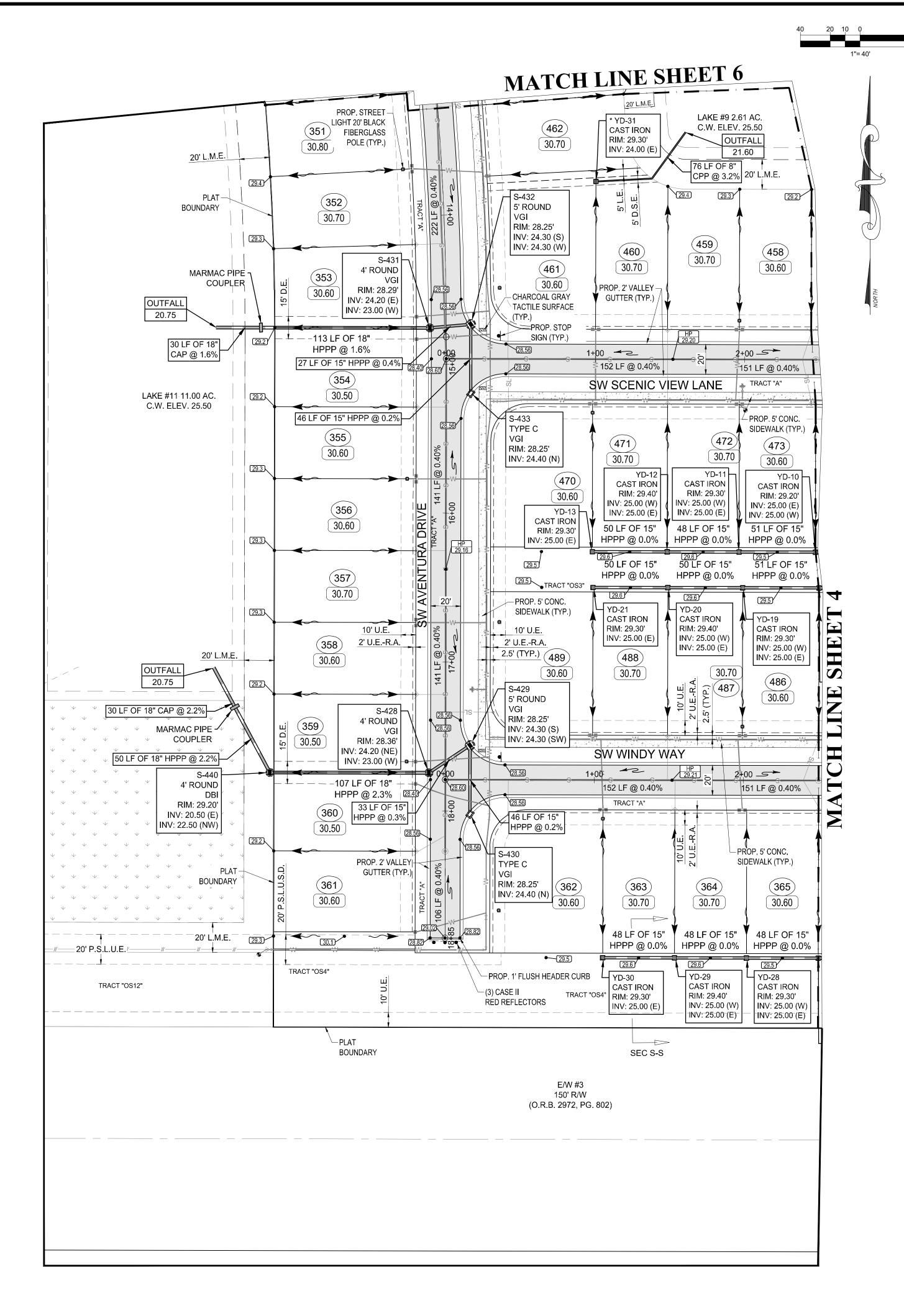
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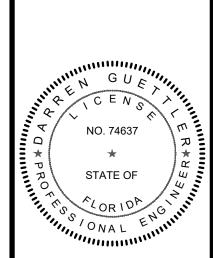




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PAVING, **GRADING & DRAINAGE PLAN**

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SHEET 2

SHEET 3

SHEET 5 SHEET 4

KEY MAP

SHEET 6

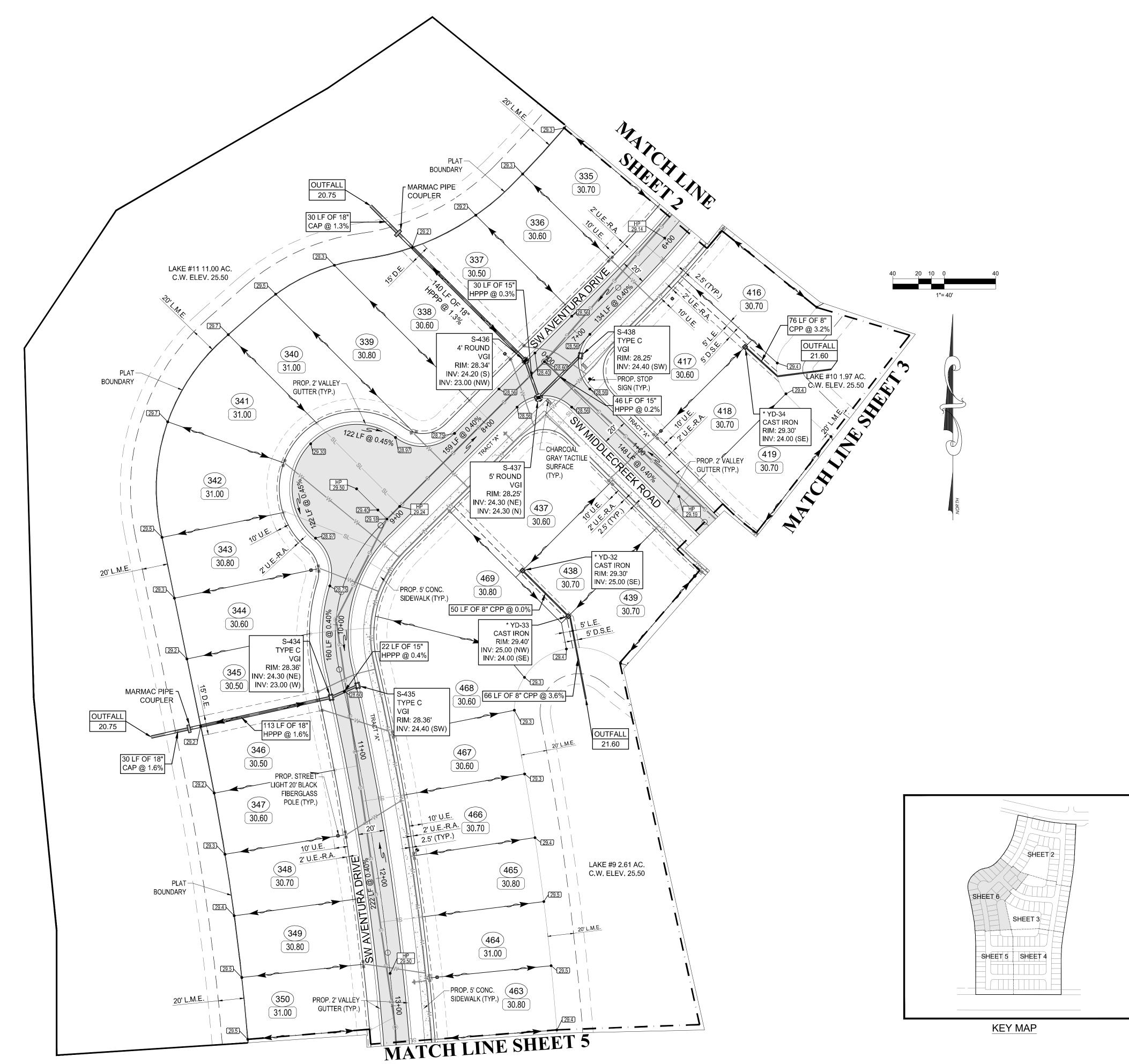
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DARREN GUETTLER, PE

FLORIDA LICENSE No. 74637

CHECKED BY: DG
DATE: 07/21/2022
CAD I.D.: 22- 1022 - PGD PLAN

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CITY OF PSL PROJECT NO. P22-288 PSLUSD FILE NO. 5268D

DRAINAGE PLAN

SHEET NUMBER:

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- 5. ALL WORK SHALL BE DONE IN A WORKMANLIKE MANNER AND SHALL CONFORM TO ALL APPLICABLE CITY, COUNTY, STATE OR FEDERAL REGULATIONS AND/OR CODES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND LICENSES REQUIRED PRIOR TO INITIATING THE WORK
- 6. THE CONTRACTOR SHALL CALL SUNSHINE (1-800-432-4770), 48 HOURS BEFORE DIGGING FOR FIELD LOCATIONS OF UNDERGROUND UTILITIES.
- UTILITIES -IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE EXACT LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES, WHETHER SHOWN OR NOT, PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER PRIOR TO CONSTRUCTION OF ANY DEVIATION
- AS-BUILTS THE CONTRACTOR SHALL SUBMIT "AS-BUILT" INFORMATION OBTAINED BY A FLORIDA REGISTERED LAND SURVEYOR. INFORMATION SHALL BE IN A FORMAT SPECIFIED BY THE GOVERNING AGENCIES.
- 9. GUARANTY ALL MATERIAL AND EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE THEREOF, AGAINST DEFECTIVE MATERIALS, INSTALLATION AND WORKMANSHIP. UPON RECEIPT OF NOTICE FROM THE OWNER OF FAILURE OF ANY PART FOR THE GUARANTEED EQUIPMENT OR MATERIALS, DURING THE GUARANTY PERIOD, THE AFFECTED PART, PARTS OR MATERIALS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
- 10. SEQUENCE OF CONSTRUCTION -THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND THAT ARE BENEATH THE PAVEMENT, SHALL BE IN PLACE AND HAVE PROPER DENSITY PRIOR TO THE CONSTRUCTION AND COMPACTION OF THE SUBGRADE.
- 11. CLEARING AND GRUBBING -WITHIN THE LIMITS OF CONSTRUCTION, ALL VEGETATION AND ROOT MATERIAL SHALL BE REMOVED.
- 12. GUMBO -WHERE GUMBO OR OTHER PLASTIC CLAYS ARE ENCOUNTERED, THEY SHALL BE REMOVED WITHIN THE ROADWAY AND PARKING AREAS ONE FOOT BELOW THE SUBGRADE EXTENDING HORIZONTALLY TO THE OUTSIDE EDGE OF THE SHOULDER AREA.
- 13. MUCK AND PEAT -IF MUCK AND/OR PEAT ARE ENCOUNTERED IN THE ROAD, PARKING OR BUILDING AREA, THEY SHALL BE REMOVED COMPLETELY TO A WIDTH OF TEN FEET BEYOND THE EDGE OF PAVEMENT OR FOUNDATION AND SHALL BE BACKFILLED WITH GRANULAR MATERIAL
- 14. SOD WHERE SOD IS SHOWN, LOWER THE GROUND 2 INCHES BELOW THE FINISHED GRADE TO ALLOW FOR THE THICKNESS OF THE SOD.
- 15. SUBGRADE -SHALL BE COMPACTED AS NOTED ON THE PLANS AND MEET THE DENSITY REQUIREMENTS AS DETERMINED BY THE A.A.S.H.T.O. T-180 SPECIFICATIONS. SUBGRADE SHALL BE 12" THICK AND EXTEND 12" BEYOND THE PROPOSED EDGE OF PAVEMENT AND/OR 6" BEYOND VALLEY GUTTER, TYPE "F" CURB & GUTTER OR TYPE "D" CURB. IF SUBGRADE IS REQUIRED TO BE STABILIZED, THE REQUIRED BEARING VALUE DETERMINATIONS SHALL BE MADE PER FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, LATEST EDITION. WHEN FILLING IS REQUIRED, SUBGRADE SHALL BE COMPACTED IN 6" LIFTS.
- 16. BASE MATERIAL -APPROVED BASE MATERIAL, MINIMUM L.B.R. 100, SHALL BE COMPACTED TO NOT LESS THAN 98% MAXIMUM DENSITY AS DETERMINED BY A.A.S.H.T.O. T-180 SPECIFICATIONS AND MEET THE CRITERIA SET FORTH IN THE PLANS AND SPECIFICATIONS AND AS CALLED FOR IN BOTH FLORIDA D.O.T. INDEX 514 AND FLORIDA D.O.T. SPECIFICATIONS, LATEST EDITION. CONTRACTOR SHALL NOTIFY BOTH THE OWNER AND OWNER'S GEOTECHNICAL ENGINEER A MINIMUM OF 48 HOURS PRIOR TO BASE MATERIAL DELIVERY TO THE PROJECT TO SCHEDULE MATERIAL TESTING. TEST RESULTS THAT DO NOT MEET THE SPECIFIED CRITERIA, SHALL CAUSE THE CONTRACTOR, AT HIS SOLE EXPENSE, TO REMOVE ANY AND ALL OF SAME MATERIAL THAT IS EITHER ALREADY PLACED IN ROADWAYS OR IN STOCKPILES AND NOT USE IT IN AREAS REQUIRING BASE MATERIAL. CONTRACTOR SHALL NOTIFY OWNER AND OWNER'S GEOTECHNICAL ENGINEER 48 HOURS PRIOR TO DELIVERY OF BASE MATERIAL THAT IS FROM A NEW SOURCE TO SCHEDULE MATERIAL TESTING. CONTRACTOR SHALL PROVIDE THE OWNER AND OWNER'S GEOTECHNICAL ENGINEER A SCHEMATIC INDICATING WHERE ON THE PROJECT THE CHANGE IN MATERIAL SOURCE HAS OCCURRED. AT MINIMUM, ALL BASE MATERIAL SHALL BE TESTED PRIOR TO THE START OF EACH NEW PHASE OF THE WORK AND AS THE OWNER OR OWNER'S GEOTECHNICAL ENGINEER DEEMS AS NECESSARY DURING FIELD INSPECTIONS TO ENSURE ALL BASE MATERIAL THROUGHOUT THE PROJECT MEETS ALL MINIMUM CRITERIA.
- 17. PRIME COAT -BITUMINOUS PRIME COAT SHALL CONFORM WITH THE REQUIREMENTS OF THE FLORIDA D.O.T. SPECIFICATIONS, LATEST EDITION AND SHALL BE APPLIED AT A RATE OF 0.25 GALLONS PER SQUARE YARD, UNLESS A DIFFERENT RATE IS DIRECTED BY THE ENGINEER. PRIME COAT IS TO BE APPLIED AT LEAST 24 HOURS PRIOR TO PLACEMENT OF PAVEMENT WITH AN ABSOLUTE MINIMUM APPLICATION LEAD TIME OF 12 HOURS PERMITTED ONLY WITH THE WRITTEN APPROVAL FROM THE ENGINEER.
- 18. TACK COAT -BITUMINOUS TACK COAT SHALL CONFORM WITH THE REQUIREMENTS OF THE FLORIDA D.O.T. SPECIFICATIONS, LATEST EDITION AND SHALL BE APPLIED AT THE RATE OF 0.08 GALLONS PER SQUARE YARD, UNLESS A VARIATION IS APPROVED BY THE ENGINEER.
- 19. SURFACE COURSE -ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM WITH THE REQUIREMENTS OF THE FLORIDA D.O.T. SPECIFICATIONS, LATEST EDITION. THE MINIMUM COMPACTED THICKNESS TO BE AS NOTED ON PLANS.
- 20. PAVEMENT MARKINGS AND GEOMETRICS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITION.
- 21. CONCRETE -ALL CONCRETE SHALL DEVELOP 2500 P.S.I. (MINIMUM) 28 DAY COMPRESSIVE STRENGTH OR GREATER WHERE NOTED ON PLANS. CLASS I CONCRETE SHALL CONFORM WITH THE FLORIDA D.O.T. SPECIFICATIONS, LATEST EDITION. CLASS I CONCRETE USED AS PAVING SHALL DEVELOP 3000 P.S.I. (MINIMUM) 28 DAYS COMPRESSIVE
- 22. ANY EXISTING ROADWAY AND/OR UTILITY THAT IS DAMAGED BY THE CONTRACTOR SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER'S ENGINEER.
- 23. PIPE BACKFILL -REQUIREMENTS FOR PIPE BACKFILL CROSSING ROADS OR PARKING AREAS SHALL BE DEFINED IN THE FLORIDA D.O.T. SPECIFICATIONS, LATEST EDITION. PIPELINE BACKFILL SHALL BE PLACED IN SIX INCH LIFTS AND COMPACTED TO 100% OF THE STANDARD PROCTOR (A.A.S.H.T.O.) T-99 SPECIFICATIONS.
- 24. ALL PIPE LENGTHS AND CENTERLINE SLOPE LENGTHS SHOWN ON THESE DRAWINGS ARE SCALED DISTANCES. THE CONTRACTOR SHALL CONFIRM ALL MEASUREMENTS IN THE FIELD AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCY WITH THE DRAWINGS PRIOR TO PERFORMING THE WORK. ALL CONCRETE PIPES SHALL HAVE
- 25. THE PROPERTY OWNER, CONTRACTOR AND AUTHORIZED REPRESENTATIVES SHALL PROVIDE PICKUP, REMOVAL AND DISPOSAL OF LITTER WITHIN THE PROJECT LIMITS AND SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE AREA FROM THE EDGE OF PAVEMENT TO THE PROPERTY LINE WITHIN THE CITY'S RIGHT-OF-WAY IN ACCORDANCE

FEATHER ASPHALT 1/4" ABOVE LIP

OF GUTTER (ON LOW SIDE OF ROAD ONLY)

-RIGHT-OF-WAY

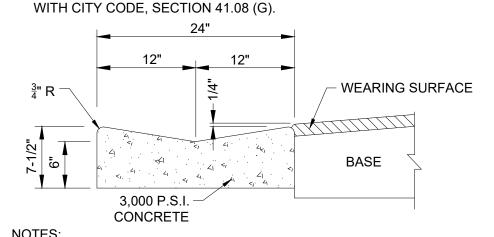
-UTILITY EASEMENT

-UTILITY EASEMENT - RESTRICTED AREA

-SIDEWALK

-TYPICAL

-ASPHALTIC CONCRETE SURFACE



SAWCUTS REQUIRED AT 5' CENTERS.

2. CURB SHALL BE PLACED ON SPECIFIED SUBGRADE COURSE. 2' VALLEY GUTTER

∕⁻1 ³″ R

CURB PAD

STABILIZED SUBGRADE (LBR 40)

2. REFER TO FDOT INDEX 300 FOR NOTES AND DETAILS

-CENTERLINE

-CONCRETE

-ELEVATION

-LAKE MAINTENANCE EASEMENT

-CITY OF PORT ST. LUCIE UTILITY EASEMENT

-LOT LINE

-MAXIMUM

-MINIMUM

CONC

LME

MAX.

MIN.

 $-\frac{3}{4}$ R $\frac{3}{4}$ R -

WHEN USED ON HIGH SIDE OF ROADWAYS THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS

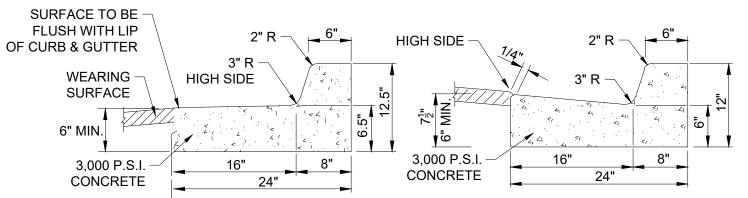
SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6" INSTEAD OF 7 1/2".

TYPE "E" CURB & GUTTER

DETAILS LEGEND:

R/W

S/W



. WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE SLOPE OF ADJACENT PAVEMENT AND THICKNESS OF THE LIP SHALL BE 6 INCHES.

2. SAWCUTS REQUIRED AT 10' CENTERS. 3. CURB SHALL BE PLACED ON SPECIFIED SUBGRADE COURSE.

TYPE "F" CURB & GUTTER (4) HIGH STRENGTH -- POLYSEAL COUPLER STEEL STRAPS (MARMAC)

- POLYSEAL HPP PIPE -

´ A \ (MARMAC) POLYSEAL DETAIL

3. SEE MAR MAC INC., FOR SPECIFIC PRODUCT INFORMATION AND SELECTION.

POLYSEAL COUPLER (4) HIGH STRENGTH -STEEL STRAPS **UNION POINT** HPP PIPE (TWO HDPE PIPES) B → POLYSEAL SECTION DETAIL

TRANSITION

VALLEY GUTTER

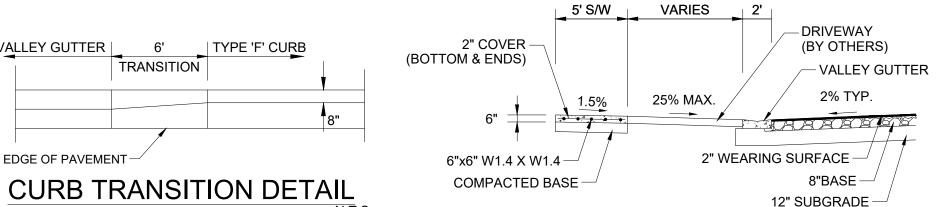
EDGE OF PAVEMENT-

THE COUPLER SHALL BE PLACED AROUND THE PIPE. MASTIC SIDE TO THE PIPE. SPANNING THE JOINT. THE PROTECTIVE RELEASE FILM SHALL BE REMOVED AND THE COUPLER APPLIED WITH THE OVERLAP AT THE TOP OF THE PIPE. THE STRAPS SHALL BE SECURED (OUTSIDE STRAPS FIRST) ON THE LARGER OD PIPE WITH THE PROPER TOOLS, THE SECURING STRAPS ON THE OUTSIDE OF THE SMALL OD SHALL THEN BE SECURED, THE INSIDE STRAP SHALL BE TIGHTENED LAST. THE CLOSING FLAP SHALL COVER THE EXPOSED STRAP WORK AREA, COMPLETING THE JOINT. ALL PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321 - STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF FLEXIBLE THERMOPLASTIC SEWER PIPE. LATEST EDITION.

MARMAC PIPE COUPLER DETAIL N.T.S.

STRUCTURAL NUMBER (SN) (LOCAL ROADS SN = 1.89 MIN.) **SUBGRADE** TYPE WEARING SURFACE 80' RIGHT-OF-WAY ROAD 2" THICK, TYPE S-III A.C.A.C. INSTALLED IN TWO | STRUCTURAL | 8" THICK, LIMEROCK (LBR 100) STRUCTURAL | 2 X 0.44 = 0.88 STRUCTURAL 12" THICK, STABILIZED SECTION AND ENTRY ROAD LIFTS COEFFICIENT COMPACTED IN ONE LIFT TO 98% COEFFICIENT | SUBGRADE, COMPACTED TO COEFFICIENT | 8 X 0.18 = 1.44 (FIRST LIFT TO BE 1" & SECOND LIFT TO BE 1"). PER INCH = MAXIMUM DRY DENSITY, PER INCH = 98% MAXIMUM DRY DENSITY PER INCH = | 12 X 0.08 = 0.96 TACK COAT REQUIRED WITH MULTIPLE LIFTS. 0.44A.A.S.H.T.O. T-180 0.18 0.08 SN = 3.28 A.S.H.T.O. T-180 AND STABILIZED TO EITHER L.B.R. = 40 OR F.B.V. = 75 STRUCTURAL $2 \times 0.44 = 0.88$ OPTIONAL BLACK BASE STRUCTURAL | 12" THICK, STABILIZED 5" THICK, TYPE B-12.5 (BLACK BASE) COEFFICIENT $| 5 \times 0.30 = 1.50$ COEFFICIENT | SUBGRADE, COMPACTED TO 98% MAXIMUM DRY DENSITY PER INCH = 12 X 0.08 = 0.96 MAY BE SUBSTITUTED IN LIEU OF PER INCH = SN = 3.346-1/2" LIMEROCK A.S.H.T.O. T-180 AND 0.08 0.30 STABILIZED TO EITHER L.B.R. = 40 OR F.B.V. = 75 STRUCTURAL | 12" THICK COMPACTED STRUCTURAL 2 X 0.44 = OPTIONAL DOUBLE ROCK COEFFICIENT COEFFICIENT | 13.5 X 0.18 = 2.43 5.5" ADDITIONAL LIMEROCK PER INCH = 0 | 12 X 0 = PER INCH = BASE AND 12" COMPACTED SUBGRADE MAY BE 0.18 SN = 3.31SUBSTITUTED IN LIEU OF 12" STABILIZED SUBGRADE 50' RIGHT-OF-WAY ROAD 2" THICK, TYPE S-III A.C.A.C. INSTALLED IN TWO | STRUCTURAL | 6-1/2" THICK, LIMEROCK (LBR 100) STRUCTURAL | 2 X 0.44 = 0.88 STRUCTURAL | 12" THICK, STABILIZED COEFFICIENT | 6.5 X 0.18 = 1.17 COEFFICIENT COMPACTED IN ONE LIFT TO 98% COEFFICIENT | SUBGRADE, COMPACTED TO (FIRST LIFT TO BE 1" & SECOND LIFT TO BE 1"). PER INCH = MAXIMUM DRY DENSITY, PER INCH = 98% MAXIMUM DRY DENSITY PER INCH = | 12 X 0.08 = 0.96 TACK COAT REQUIRED WITH MULTIPLE LIFTS. A.A.S.H.T.O. T-180 SN = 3.01 0.44 0.18 A.S.H.T.O. T-180 AND 0.08 STABILIZED TO EITHER L.B.R. = OPTIONAL BLACK BASE STRUCTURAL | 40 OR F.B.V. = 75 $2X \ 0.44 = 0.88$ 5 X 0.30 = 1.50 5" THICK, TYPE B-12.5 (BLACK BASE) COEFFICIENT $\frac{12 \times 0.08 = 0.96}{\text{SN} = 3.34}$ MAY BE SUBSTITUTED IN LIEU OF PER INCH = 6-1/2" LIMEROCK 0.30 STRUCTURAL | 12" THICK COMPACTED STRUCTURAL 2 X 0.44 = OPTIONAL DOUBLE ROCK 5.5" ADDITIONAL LIMEROCK COEFFICIENT COEFFICIENT | 12.0 X 0.18 = 2.16 PER INCH = PER INCH = 0 | 12 X 0 = BASE AND 12" COMPACTED SN = 3.040.18 SUBGRADE MAY BE SUBSTITUTED IN LIEU OF 12" STABILIZED SUBGRADE STRUCTURAL | 12" THICK, STABILIZED 16' CART PATH SECTION 1-1/2" THICK, TYPE S-III A.C.A.C. INSTALLED IN STRUCTURAL 8" THICK, LIMEROCK (LBR 100) STRUCTURAL | 1.50 X 0.44 = 0.66 COMPACTED IN ONE LIFT TO 98% COEFFICIENT | 8 X 0.18 = COEFFICIENT COEFFICIENT | SUBGRADE, COMPACTED TO 1.44 (FIRST LIFT TO BE 3/4" & SECOND LIFT TO BE 3/4").PER INCH = MAXIMUM DRY DENSITY, PER INCH = 98% MAXIMUM DRY DENSITY PER INCH = | 12 X 0.08 = 0.96 TACK COAT REQUIRED WITH MULTIPLE LIFTS. 0.44 SN = 3.06A.A.S.H.T.O. T-180 A.S.H.T.O. T-180 AND STABILIZED TO EITHER L.B.R. = STRUCTURAL | 40 OR F.B.V. = 75 1.50 X 0.44 = 0.66 OPTIONAL BLACK BASE 5" THICK, TYPE B-12.5 (BLACK BASE) 5 X 0.30 = 1.50 COEFFICIENT MAY BE SUBSTITUTED IN LIEU OF 12 X 0.08 = 0.96 PER INCH = 6-1/2" LIMEROCK SN = 3.120.30 SIDEWALKS * 4" THICK 3,000 PSI CONCRETE 4" THICK, CLEAN SAND N/A COMPACTED TO 98% PER 6" THICK 3,000 PSI CONCRETE WITH W1.4 X A.A.S.H.T.O. T-180 W1.4, 6" X 6" REINFORCING MESH AT ALL DRIVEWAYS & L.M.A.E.'S STRUCTURAL 11.5" THICK LIMEROCK LBR 100 PAVER STONE ON INTERLOCKING CONC. PAVER STONES STRUCTURAL | 2.375 X 0 = 0 STRUCTURAL 12" THICK, STABILIZED 80' RIGHT-OF-WAY ROAD COEFFICIENT COMPACTED IN ONE LIFT TO COEFFICIENT | SUBGRADE, COMPACTED TO COEFFICIENT | 11.5 X 0.18 = 2.07 23" THICK (MIN.) SECTION AND ENTRY ROAD | 1" SCREENED OR CONC. SAND PER INCH = 0 98% MAXIMUM DRY DENSITY, PER INCH = PER INCH = 12 X 0.08 = 0.96 98% MAXIMUM DRY DENSITY SECTION A.A.S.H.T.O. T-180 SN = 3.030.18 A.S.H.T.O. T-180 AND 0.08 STABILIZED TO EITHER L.B.R. = $2.375 \times 0 = 0$ OPTIONAL BLACK BASE STRUCTURAL 40 OR F.B.V. = 75 7" TYPE B-12.5 (BLACK BASE) 7 X 0.30 = 2.10 COEFFICIENT $\frac{12 \times 0.08 = 0.96}{\text{SN} = 3.06}$ MAY BE SUBSTÌTUTED IN LIEU PER INCH = OF 8" LIMEROCK 8' PATH SECTION 1-1/2" THICK, TYPE S-III A.C.A.C. INSTALLED IN STRUCTURAL 6-1/2" THICK, LIMEROCK (LBR 100) STRUCTURAL 12" THICK, STABILIZED STRUCTURAL | 1.50 X 0.44 = 0.66 COEFFICIENT | SUBGRADE, COMPACTED TO COEFFICIENT | 6.5 X 0.18 = 1.17 COEFFICIENT | COMPACTED IN ONE LIFT TO 98% TWO LIFTS (FIRST LIFT TO BE 3/4" & SECOND LIFT TO BE MAXIMUM DRY DENSITY, PER INCH = | 12 X 0.08 = 0.96 PER INCH = PER INCH = 98% MAXIMUM DRY DENSITY A.S.H.T.O. T-180 AND SN = 2.79A.A.S.H.T.O. T-180 0.18 TACK COAT REQUIRED WITH MULTIPLE LIFTS STABILIZED TO EITHER L.B.R. = 1.50 X 0.44 = 0.66 STRUCTURAL | 40 OR F.B.V. = 75 5" THICK, TYPE B-12.5 (BLACK BASE) | COEFFICIENT 5 X 0.30 = 1.50 12 X 0.08 = 0.96 MAY BE SUBSTITUTED IN LIEU OF PER INCH = 6-1/2" LIMEROCK SN = 3.120.30 16' MULTI-MODAL PATH 1-1/2" THICK, TYPE S-III A.C.A.C. INSTALLED IN STRUCTURAL | 1.50 X 0.44 = 0.66 6-1/2" THICK, LIMEROCK (LBR 100) STRUCTURAL 12" THICK, STABILIZED COEFFICIENT | 6.5 X 0.18 = 1.17 COEFFICIENT | SUBGRADE, COMPACTED TO TWO LIFTS COEFFICIENT COMPACTED IN ONE LIFT TO 98% MAXIMUM DRY DENSITY, PER INCH = 12 X 0.08 = 0.96 0.08 SN = 2.79 (FIRST LIFT TO BE 3/4" & SECOND LIFT TO BE PER INCH = PER INCH = 98% MAXIMUM DRY DENSITY A.A.S.H.T.O. T-180 A.S.H.T.O. T-180 AND TACK COAT REQUIRED WITH MULTIPLE LIFTS STABILIZED TO EITHER L.B.R. =

PAVING / SIDEWALK SPECIFICATIONS



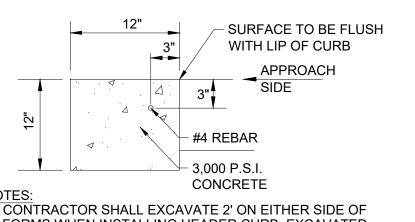
6-1/2" LIMEROCK

OPTIONAL BLACK BASE

MAY BE SUBSTITUTED IN LIEU OF

5" THICK, TYPE B-12.5 (BLACK BASE) | COEFFICIENT

SIDEWALK AT DRIVEWAYS



. CONTRACTOR SHALL EXCAVATE 2' ON EITHER SIDE OF FORMS WHEN INSTALLING HEADER CURB. EXCAVATED AREA SHALL BE BACKFILLED WITH BASE MATERIAL AND COMPACTED IN 6" MAXIMUM LIFTS. WORK SHALL BE INSPECTED BY ENGINEER. 2. 1/2" EXPANSION JOINT SHALL BE INSTALLED WHERE

12" FLUSH HEADER CURB

HEADER CURB ADJOINS OTHER CONCRETE CURB.

*SIDEWALK NOTES:

STRUCTURAL | 40 OR F.B.V. = 75

PER INCH =

SIDEWALKS ADJACENT TO RESIDENTIAL UNITS WILL BE CONSTRUCTED

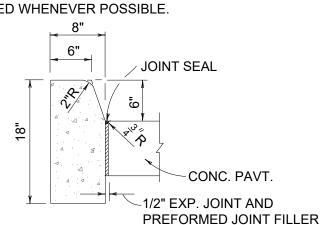
1.50 X 0.44 = 0.66

5 X 0.30 = 1.50

 $\frac{12 \times 0.08 = 0.96}{\text{SN} = 3.12}$

- WITH RESPECTIVE UNIT. SIDEWALK TO BE 4" THICK, PORTLAND CEMENT CONCRETE, MINIMUM 3,000 P.S.I. @ 28 DAYS.
- SIDEWALK TO BE BROOM FINISHED WITH EVEN DUSTLESS SURFACE. COMPACTED BASE TO BE A MINIMUM 4" OF CLEAN SAND OR SANDY LOAM, COMPACTED TO 98% PER A.A.S.H.T.O. T-180, FULL WIDTH.
- AT DRIVEWAYS, SIDEWALKS SHALL BE THICKENED TO 6" WITH 6"X6" W1.4 X W1.4 MESH.
- 6. TYPE "A" EXPANSION JOINTS (1 WITH PREFORMED JOINT FILLER PER F.D.O.T. STANDARD INDEX #310) SHALL BE LOCATED WHERE NEW CONCRETE MEETS EXISTING CONCRETE

TYPE "B" ($\frac{1}{2}$ " TOOLED JOINTS) OR TYPE "D" ($\frac{3}{16}$ " SAWCUT JOINTS) PER F.D.O.T. STANDARD INDEX #310 SHALL BE LOCATED AT 5' O.C. SAW-CUT JOINTS AVOIDED WHENEVER POSSIBLE



FOR USE ADJACENT TO CONCRETE OR FLEXIBLE PAVEMENT, CONCRETE SHOWN. EXPANSION JOINT, PREFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURBS AND CONCRETE PAVEMENT ONLY, SEE DIAGRAM RIGHT.

TYPE "D" CURB

KNOW WHAT'S BELO www.callsunshine.com

ALWAYS CALL 81 BEFORE YOU DI

PSI USD FILE NO. 5268D

SHEET NUMBER: CITY OF PSL PROJECT NO. P22-28

PROJECT No. DRAWN BY: CHECKED BY:

SHEET TITLE:

STATE OF

DARREN GUETTLER, P

FLORIDA LICENSE No. 74637

7/27/23

CAD I.D.: 22- 1022 - PGD DETAILS

PAVING, GRADING

& DRAINAGE

DETAILS

1449 NW COMMERCE CENTRE DR

PORT ST. LUCIE, FL 34986

FBPE C.O.A. # 32222

COMMENT:

PER SPRC

COMMENTS

PER SPRC

COMMENTS

PER SPRC

COMMENTS

PHONE: (772) 879-047

REVISIONS

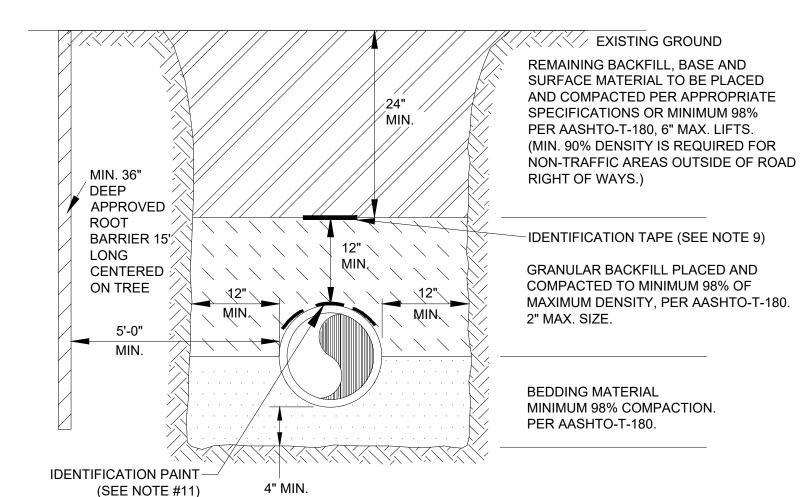
SG 12/15/22

SG | 05/26/23

G 07/25/23

Д

STANDARD TYPE "C"&"E" INLET DETAIL



TRENCH NOTES

- BEDDING SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8"- 7/8" SIZING WITH EQUAL OR GREATER STRUCTURAL ADEQUACY AS EXISTING. UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGER ROCKS SHALL BE REMOVED.
- 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.
- 4. BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL SUCH AS LARGE ROCK, MUCK AND DEBRIS
- 5. DENSITY TESTS SHALL BE TAKEN IN 1 FOOT LIFTS ABOVE THE PIPE AT INTERVALS OF 400' MAXIMUM, (MINIMUM 1 SET) OR AS DIRECTED BY THE CONSTRUCTION COORDINATION DIVISION. RESULTS SHALL BE SUBMITTED TO CONSTRUCTION COORDINATION AS PART OF THEIR FIELD REVIEW.
- 6. THE PERMITTEE/DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH ALL TRENCH SAFETY LAWS AND REGULATIONS.
- 7. SEE SEPARATE DETAIL FOR PAVED AREAS (OPEN CUT FOR THOROUGHFARE AND NON-THOROUGHFARE ROADS)
- 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 ALL MAIN PRESSURE PIPES AND CONDUIT IN THE CITY'S RIGHT-OF-WAY. INSTALL TAPE 24" BELOW FINISHED GRADE.
- 10. ROOT BARRIER IS REQUIRED FOR APPROVED PIPE INSTALLATION CLOSER THAN 10 FEET FROM AN EXISTIG
- 11. CONTINUOUS 4" WIDE PAINT STRIPING IS REQUIRED FOR DIP/PCCP WATER MAINS (BLUE), DIP SANITARY FORCE MAINS (GREEN), DIP RECLAIMED WATER MAINS (PURPLE), GAS MAINS (YELLOW), OR AS REQUIRED BY THE APWA.
- 12. PERMANENT ABOVE GROUND UTILITY MARKER SHALL BE INSTALLED IF REQUIRED BY PROPERTY OWNER GRANTING THE PIPE INSTALLATION PERMIT.

TYPICAL TRENCH DETAIL

DETAILS LEGEND:

C/L	-CENTERLINE	R	-RADIUS
CONC.	-CONCRETE	R/W	-RIGHT-OF-WAY
EL.	-ELEVATION	S/W	-SIDEWALK
L/L	-LOT LINE	TYP.	-TYPICAL
LME	-LAKE MAINTENANCE EASEMENT	U.E.	-UTILITY EASEMENT
MAX.	-MAXIMUM	U.ER.A.	-UTILITY EASEMENT - RESTRICTED AF
MIN.	-MINIMUM		
P.S.L.U.E.	-CITY OF PORT ST. LUCIE UTILITY EASEMENT	Γ	

INLET AND MANHOLE NOTES:

1. ALL INLET CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT F.D.O.T. STANDARDS INDEX # 201 & 232.

2. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER.

3. STRUCTURES WITH SKEWED PIPE CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH F.D.O.T. STANDARDS INDEX # 200 SHEET 3 OF 5 AND INDEX # 201, SHEET 5 OF 5. ROUND STRUCTURES ARE TO BE USED WHERE SKEW ANGLES EXCEED MAXIMUM ALLOWED OR WHEN PIPE CONNECTION WOULD BE AT THE CORNER OF A RECTANGULAR STRUCTURE. RECTANGULAR STRUCTURES WITH A CORNER OPENING IS ONLY TO BE USED WHEN A ROUND STRUCTURE

4. ALL EXPOSED CORNERS AND EDGES SHALL BE CHAMFERED 3/4".

5. INLETS AND MANHOLES SHALL BE PRECAST CLASS "A" 3,000 P.S.I.

6. FRAMES AND GRATES SHALL BE CAST IRON AND IN ACCORDANCE WITH F.D.O.T. SPECIFICATIONS.

7. INLET GRATES SHALL BE U.S. FOUNDRY OR EQUAL.

8. ALL INLET GRATES SHALL HAVE LOCKING CHAINS IN ACCORDANCE WITH F.D.O.T. STANDARD INDEX #201, OR AN APPROVED ALTERNATE SECURING MECHANISM.

9. REINFORCING STEEL SHALL CONFORM TO A.S.T.M. 615 GRADE 40.

10. AS AN ALTERNATE, PRECAST CIRCULAR (MANHOLES) MAY BE FURNISHED IN ACCORDANCE WITH F.D.O.T. STANDARD INDEX #200 WITH WALLS AND REINFORCEMENT IN ACCORDANCE WITH A.S.T.M. C-478 SPECIFICATIONS, EXCEPT THAT MINIMUM WALL THICKNESS SHALL BE 6".

11) ALL INLETS IN GRASSED AREAS SHALL BE STANDARD TYPE "C" & "E" INLETS HAVING CONCRETE COLLARS. ALL INLETS IN GRASSED AREA AND ADJACENT TO GRASSED AREAS SHALL BE PROTECTED FROM SCOUR BY INSTALLATION OF A 4' WIDE PERIMETER APRON OF SOD. ADDITIONALLY ALL INLET GRATES SHALL BE WRAPPED WITH FILTER CLOTH DURING CONSTRUCTION.

GENERAL SIGN SPECIFICATIONS:

EQUAL - PREFIX & SUFFIX - 4.5".

HEAD BOLTS.

CONSISTENCY THROUGHOUT PROJECT.

SIGNS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD.

FLAT BLADE: ALCOA #86054.6063-T6 ALLOY, ETCHED, DEGREASED WITH #1200

<u>LETTERS:</u> NAME - 6" UPPERCASE WITH 4.5" LOWERCASE & 9" UPPERCASE WITH 6.75" LOWERCASE. SERIES 'B' # 3870 HIGH INTENSITY (SILVER) OR

POST: STEEL FLANGED CHANNEL POST 3 LBS. WEIGHT PER FOOT WITH

BAKED GREEN ALKYD OR GALVANIZED FINISH PER A.S.T.M. -A-123 WITHOUT

SQUARE TUBE OR U-CHANNEL POSTS BY MEANS OF (2)5/16" DIAMETER HEX

LOCATION: ONE PER INTERSECTION AS INDICATED ON THE PLANS.

COORDINATE WITH DEVELOPER FOR SPECIFIC SIGN TYPE AND MAINTAIN

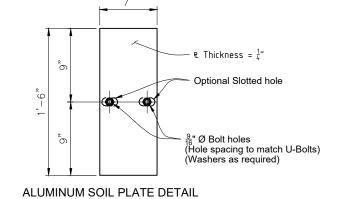
ALODINE FINISH WITH #3877 GREEN HIGH INTENSITY BACKGROUND AND

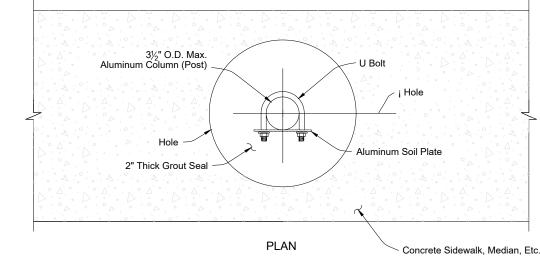
EQUAL DIMENSIONS - 9" & 12" MIN. H, 24", 30", 36" AND 42" L.

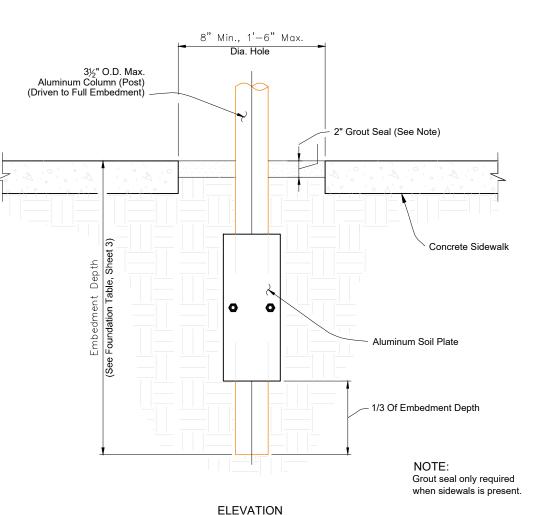
ANCHOR PLATES. SQUARE POST PER FDOT INDEX 11860.

BRACKETS SHALL BE ATTACHED FIRMLY ON STANDARD

STOP SIGN: R1-1 MUTCD (HIGH INTENSITY)

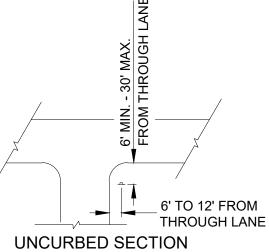






DRIVEN POST DETAIL (Frangible Post In Through Sidewalk Shown Installations without Sidewalk Similar)

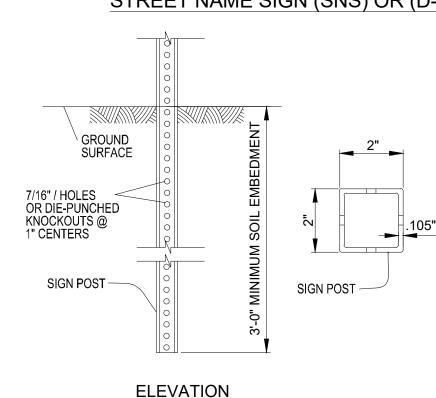
DRIVEN POST, CONCRETE/STUB, AND SOIL PLATE DETAILS FDOT INDEX 700-010



2' FROM EDGE OF SIGN TO FACE CURBED SECTION CURB

IF STOP BAR IS USED IT SHALL BE PLACED AT THE STOP SIGN TYPICAL STOP SIGN PLACEMENT

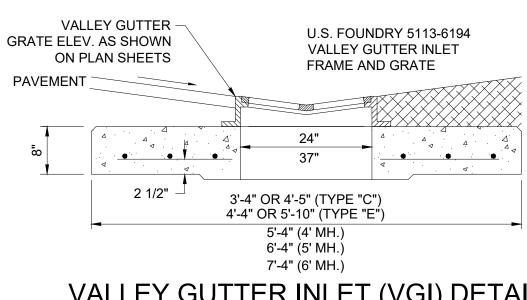




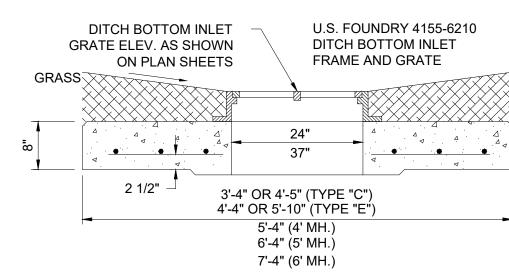
STEEL SQUARE TUBE POST DETAILS

ISOMETRIC VIEW STREET NAME SIGN WITH STOP SIGN

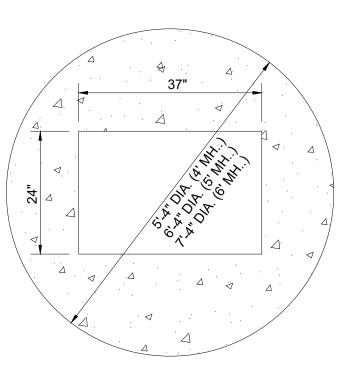
STOP



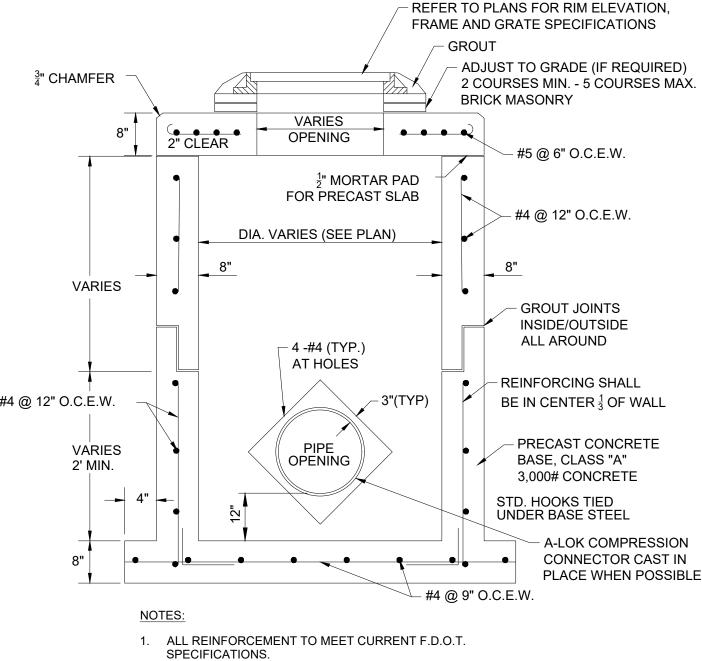
VALLEY GUTTER INLET (VGI) DETAIL



DITCH BOTTOM INLET (DBI) DETAIL



PLAN (4', 5' OR 6' MH)



2. THIS STRUCTURE MAY BE SUBSTITUTED WITH OTHER STRUCTURES ONLY IF THE STANDARDS HAVE BEEN MET.

STORM MANHOLE DETAIL

NOTE: ALL GRADES SHOWN ARE IN NAVD88



PSLUSD FILE NO. 5268D

SHEET TITLE: PAVING, GRADING & DRAINAGE **DETAILS** SHEET NUMBER:

RAWN BY:

CHECKED BY:

NGINEERING & SURVEYING, L

1449 NW COMMERCE CENTRE DR

COMMENT:

PER SPRC

COMMENTS

PER SPRC

COMMENTS

PER SPRC

COMMENTS

PORT ST. LUCIE, FL 34986

PHONE: (772) 879-0477 FBPE C.O.A. # 32222

REVISIONS:

SG 12/15/22

SG 05/26/23

SG 07/25/23

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ス当

NO. 74637

STATE OF

DARREN GUETTLER, PE

FLORIDA LICENSE No. 74637

7/27/23

DATE: 07/21/2022 CAD I.D.: 22- 1022 - PGD DETAILS

CITY OF PSL PROJECT NO. P22-28

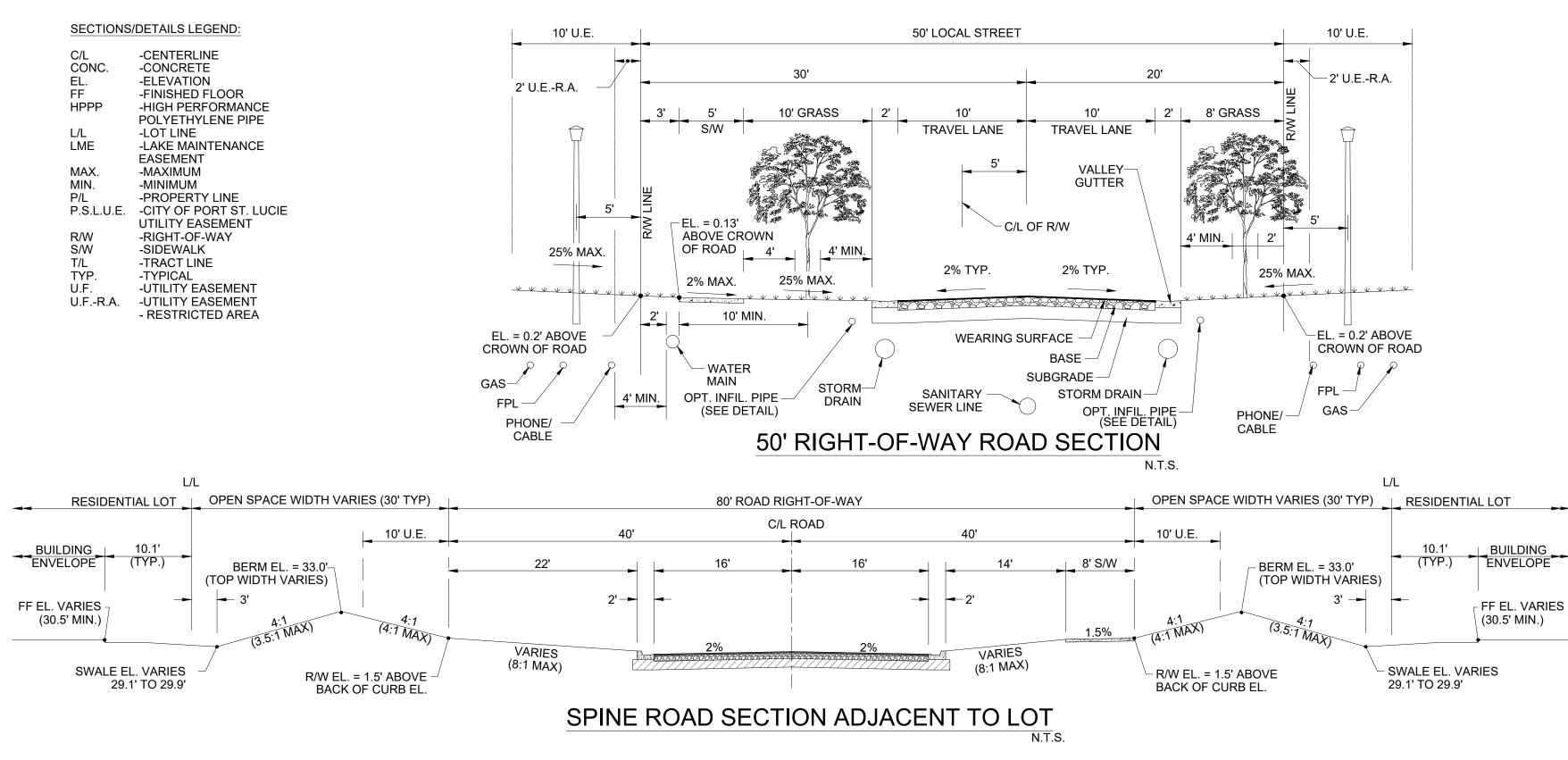
POLICY: 9" BLADES WITH 6" UPPERCASE WITH 4.5" LOWERCASE LETTERS FOR TWO ROADS WITH A SPEED LIMIT UNDER 45 MPH. #4 @ 12" O.C.E.W. 12" BLADES WITH 9" UPPERCASE WITH 6.75" LOWERCASE LETTERS FOR: THOROUGHFARE ROADS FOUR LANES OR WIDER, TWO LANE ROADS WITH A POSTED SPEED LIMIT OF 45 MPH OR MORE. **END VIEW** FRONT VIEW STREET NAME SIGN (SNS) OR (D-3) ONLY ONE BLADE WILL BE INSTALLED AT INTERSECTION WITH THOROUGHFARE ROAD INDICATING THE SIDE STREET NAME. BLADE Any St.

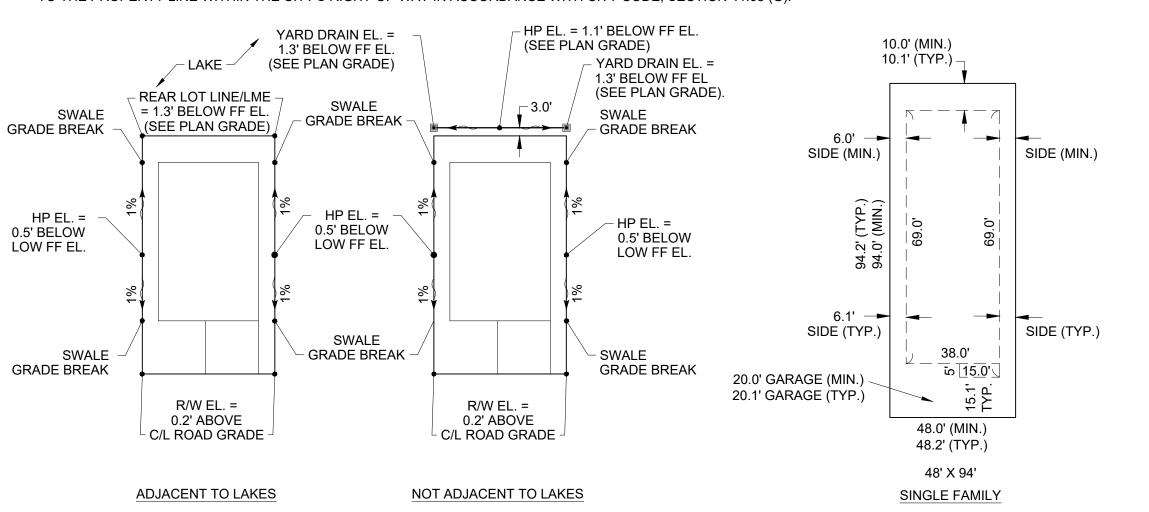
GENERAL NOTES

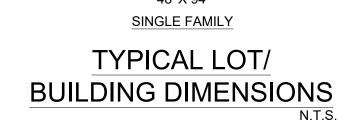
- 1. ALL ELEVATIONS SHOWN ON THESE PLANS ARE IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- 2. MINIMUM PERIMETER ELEVATION SHALL BE ELEVATION 28.50' NAVD88, WHICH IS ABOVE THE 25-YEAR, 3-DAY STORM STAGE
- 3. ALL WORK SHALL BE DONE IN A WORKMANLIKE MANNER AND SHALL CONFORM TO ALL APPLICABLE CITY. COUNTY. STATE OR FEDERAL REGULATIONS AND/OR CODES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND LICENSES REQUIRED PRIOR TO INITIATING THE WORK.
- 4. THE CONTRACTOR SHALL CALL SUNSHINE (1-800-432-4770), 48 HOURS BEFORE DIGGING FOR FIELD LOCATIONS OF UNDERGROUND UTILITIES.
- 5. UTILITIES -IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE EXACT LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES, WHETHER SHOWN OR NOT, PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER PRIOR TO CONSTRUCTION OF ANY DEVIATION FROM WHAT IS SHOWN ON THE PLAN.
- 6. AS-BUILTS THE CONTRACTOR SHALL SUBMIT "AS-BUILT" INFORMATION OBTAINED BY A FLORIDA REGISTERED LAND SURVEYOR INFORMATION SHALL BE IN A FORMAT SPECIFIED BY THE GOVERNING AGENCIES.
- 7. GUARANTY ALL MATERIAL AND EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE THEREOF, AGAINST DEFECTIVE MATERIALS, INSTALLATION AND WORKMANSHIP. UPON RECEIPT OF NOTICE FROM THE OWNER OF FAILURE OF ANY PART FOR THE GUARANTEED EQUIPMENT OR MATERIALS, DURING THE GUARANTY PERIOD, THE AFFECTED PART, PARTS OR MATERIALS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
- 8. CLEARING AND GRUBBING -WITHIN THE LIMITS OF CONSTRUCTION, ALL VEGETATION AND ROOT MATERIAL SHALL BE REMOVED.
- 9. GUMBO -WHERE GUMBO OR OTHER PLASTIC CLAYS ARE ENCOUNTERED, THEY SHALL BE REMOVED WITHIN THE ROADWAY AND PARKING AREAS ONE FOOT BELOW THE SUBGRADE EXTENDING HORIZONTALLY TO THE OUTSIDE EDGE OF THE SHOULDER AREA.
- 10. MUCK AND PEAT -IF MUCK AND/OR PEAT ARE ENCOUNTERED IN THE ROAD, PARKING OR BUILDING AREA, THEY SHALL BE REMOVED COMPLETELY TO A WIDTH OF TEN FEET BEYOND THE EDGE OF PAVEMENT OR FOUNDATION AND SHALL BE BACKFILLED WITH GRANULAR MATERIAL
- 11. ANY EXISTING ROADWAY AND/OR UTILITY THAT IS DAMAGED BY THE CONTRACTOR SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER'S ENGINEER.
- 12. THIS WILL BE A RETENTION SYSTEM, THERE WILL BE NO OUTFALL CONNECTIONS TO ADJACENT PARCELS FOR THIS PHASE OF CONSTRUCTION.
- 13. EXCAVATED MATERIAL SHALL BE PLACED THROUGHOUT THE SITE WITHIN ROAD RIGHT-OF-WAYS, BUILDING PADS AND OPEN SPACE AREAS. ANY FILL REQUIRED TO BE STOCKPILED SHALL BE APPROVED BY THE CITY OF PORT ST. LUCIE PRIOR TO STOCKPILING.
- 14. DEWATERING SHALL NOT BE REQUIRED FOR THIS PHASE OF CONSTRUCTION.

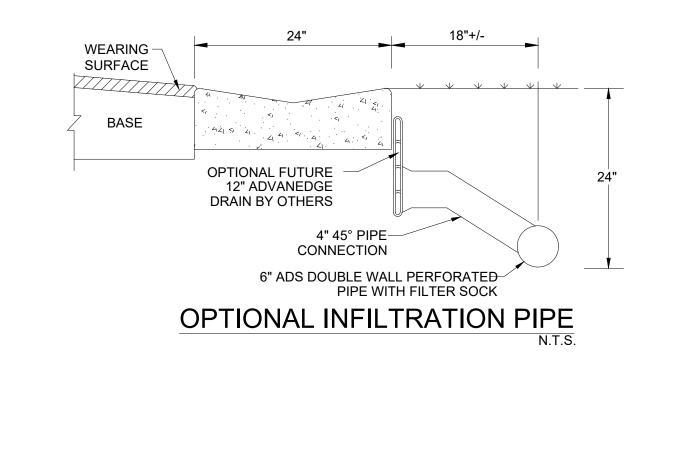
TYPICAL LOT GRADING PLAN

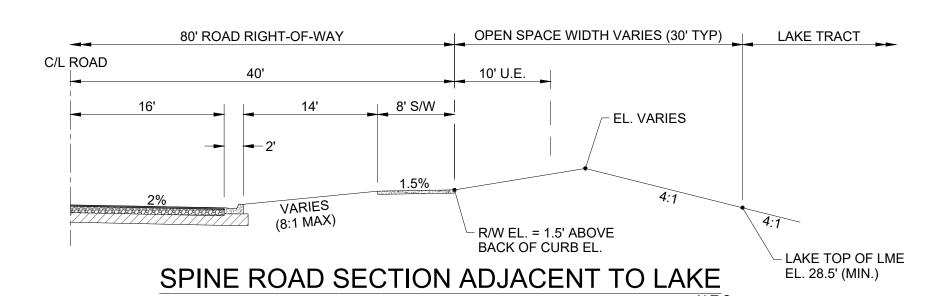
- 15. IRRIGATION SHALL NOT BE REQUIRED FOR THIS PHASE OF CONSTRUCTION.
- 16. PRIOR TO THE FILLING OR EXCAVATION WITHIN THE 10' FP&L EASEMENT (ORB 444, PG 600) THE EASEMENT SHALL BE ABANDONED.
- 17. ON-SITE BURNING SHALL NOT BE AUTHORIZED UNLESS ALL APPLICABLE PERMITS HAVE BEEN OBTAINED BY THE CONTRACTOR/OWNER.
- 18. THE PROPERTY OWNER, CONTRACTOR AND AUTHORIZED REPRESENTATIVES SHALL PROVIDE PICKUP, REMOVAL AND DISPOSAL OF LITTER WITHIN THE PROJECT LIMITS AND SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE AREA FROM THE EDGE OF PAVEMENT TO THE PROPERTY LINE WITHIN THE CITY'S RIGHT-OF-WAY IN ACCORDANCE WITH CITY CODE, SECTION 41.08 (G).

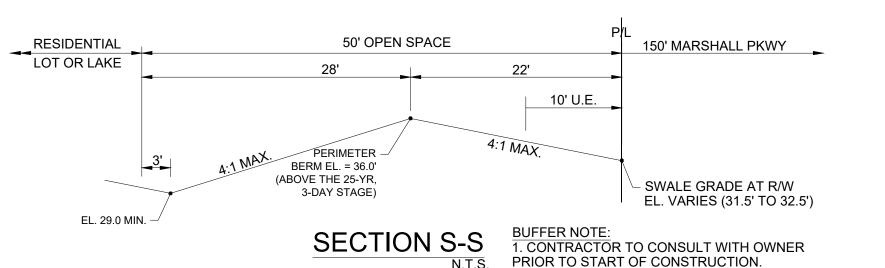


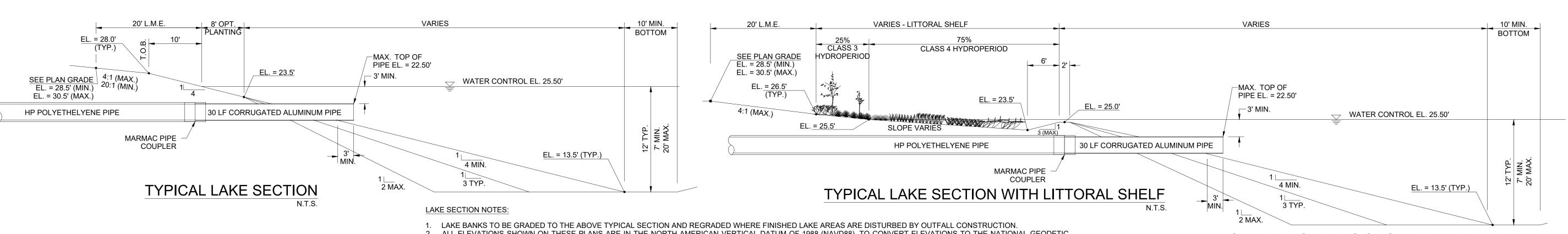












- 2. ALL ELEVATIONS SHOWN ON THESE PLANS ARE IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). TO CONVERT ELEVATIONS TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29), ADD 1.475 FEET TO THE NAVD88 ELEVATION. FOR EXAMPLE NAVD88 + 1.475' = NGVD29.
- 3. LAKE CONTROL ELEVATION SHALL BE 25.50 NAVD88.

NOTE: ALL GRADES SHOWN ARE IN NAVD88

KNOW WHAT'S BELO ALWAYS CALL 81 BEFORE YOU DIC www.callsunshine.com

SHEET TITLE: **CROSS SECTIONS** SHEET NUMBER: **09**

PROJECT No. DRAWN BY:

CHECKED BY:

1449 NW COMMERCE CENTRE DR

PORT ST. LUCIE, FL 34986

FBPE C.O.A. # 32222

COMMENT:

PER SPRC

COMMENTS

PER SPRC

COMMENTS

PER SPRC

COMMENTS

PHONE: (772) 879-0477

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NO. 74637

STATE OF

DARREN GUETTLER, PE

FLORIDA LICENSE No. 74637

7/27/23

22- 1022 - SECTIONS

REVISIONS

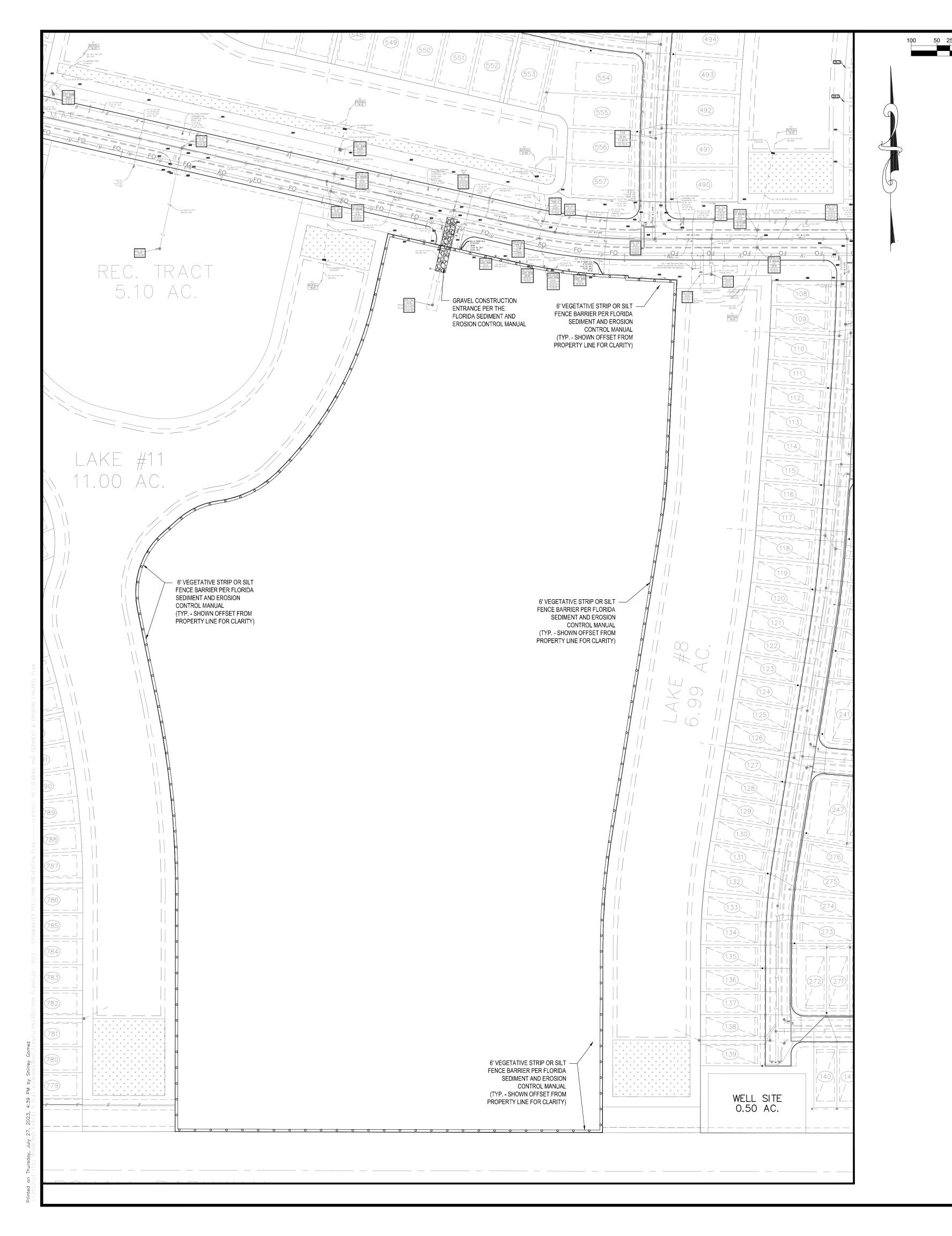
SG 12/15/22

SG 05/26/23

SG 07/25/23

CITY OF PSL PROJECT NO. P22-288

PSLUSD FILE NO. 5268D



	LEGEND
WM	EXISTING WATER MAIN
FM	EXISTING FORCE MAIN
S	EXISTING GRAVITY SEWER MAIN
	EXISTING EDGE OF PAVEMENT TO REMAIN
	EXISTING EDGE OF PAVEMENT TO BE REMOVE
	CONCRETE TO BE REMOVE
\$	EXISTING LIGHT POLE TO B REMOVED
<u>o o</u> o	6" VEGETATIVE STRIP OR SILT FENCE

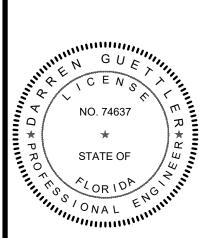
NOTE:
EROSION AND SEDIMENT CONTROL - CONTRACTOR IS
RESPONSIBLE FOR PROVIDING AND MAINTAINING EROSION
TO THE LATEST F.D.O.T. AND SEDIMENT CONTROL USING THE LATEST F.D.O.T. STANDARDS. BALED HAY, STRAW, AND SILTATION BARRIERS WILL BE INSTALLED WHERE NEEDED TO PREVENT SILTATION OF ADJACENT PROPERTY, PUBLIC RIGHT-OF-WAY, WETLANDS AND WATERWAYS. THESE WILL REMAIN IN PLACE UNTIL GRASSING OR SODDING HAS BEEN COMPLETED OR UNTIL SILTATION AND EROSION ARE NO LONGER A THREAT TO ADJACENT PROPERTIES AND WATERWAYS. STREET SWEEPING SHALL BE PERFORMED ANYTIME SEDIMENT HAS BEEN TRACKED ONTO THE ADJACENT ROADWAYS FROM THE SITE OR THE SITE DRIVEWAYS. SHOULD DUST BECOME AN ISSUE, ALL UNSTABILIZED AREAS SHALL BE WETTED DOWN SUFFICIENTLY IN ORDER TO PREVENT DUST.

SILT FENCE SHALL BE IN PLACE PRIOR TO CLEARING

PROJECT AREA: AREA TO BE CLEARED: 1,392,607 S.F. (31.970 AC) 1,392,607 S.F. (31.970 AC)

1449 NW COMMERCE CENTRE DR
PORT ST. LUCIE, FL 34986
PHONE: (772) 879-0477
FBPE C.O.A. # 32222 REVISIONS: COMMENT: PER SPRC COMMENTS PER SPRC

SG 12/15/22 SG 05/26/23 COMMENTS PER SPRC SG 07/25/23 COMMENTS



DARREN GUETTLER, PE FLORIDA LICENSE No. 74637

DRAWN BY: CHECKED BY:

DATE: 07/21/2022 CAD I.D.:22- 1022 - STORMWATER **CLEARING AND** SEDIMENT & **EROSION CONTROL PLAN**

ALWAYS CALL 81 BEFORE YOU DIG www.callsunshine.com

THE PROPERTY OWNER, CONTRACTOR, AND AUTHORIZED REPRESENTATIVES SHALL PROVIDE PICKUP, REMOVAL, AND DISPOSAL OF LITTER WITHIN THE

PROJECT LIMITS AND SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE AREA FROM THE EDGE OF PAVEMENT TO THE PROPERTY LINE WITHIN THE CITY'S RIGHT-OF-WAY IN ACCORDANCE WITH CITY CODE, SECTION 41.08(g).

THIS SITE WAS INCLUDED IN THE OVERALL RIVERLAND ENVIRONMENTAL SITE ASSESSMENT AND THIS AREA OF THE DEVELOPMENT IS PART OF

THE MASTER GRADING PLAN THAT WAS APPROVED BY THE CITY AND IS

ENVIRONMENTAL STATEMENT:

CURRENTLY IN OPERATION.

CITY OF PSL PROJECT NO. P22-288 PSLUSD FILE NO. 5268D

All to the first terms of the fi
All construction materials and debris will be placed in a dumpster and hauled off site to a landfill or other proper disposal site. No materials will be buried on site.
Off site vehicle tracking of sediments and dust generation will be minimized via a rock construction entrance, street sweeping and the use of water to keep dust down.
Florida-friendly fertilizers and pesticides will be used at a minimum and in accordance with the manufacturer's suggested application rates.
All paints and other chemicals will be stored in a locked covered shed.
d d C ged F m s

polluted runoff.

Port-o-lets will be placed away from storm sewer systems, storm inlet(s), surface waters and wetlands. No vehicle

maintenance shall be conducted on-site. A washdown

area shall be designated at all times and will not be

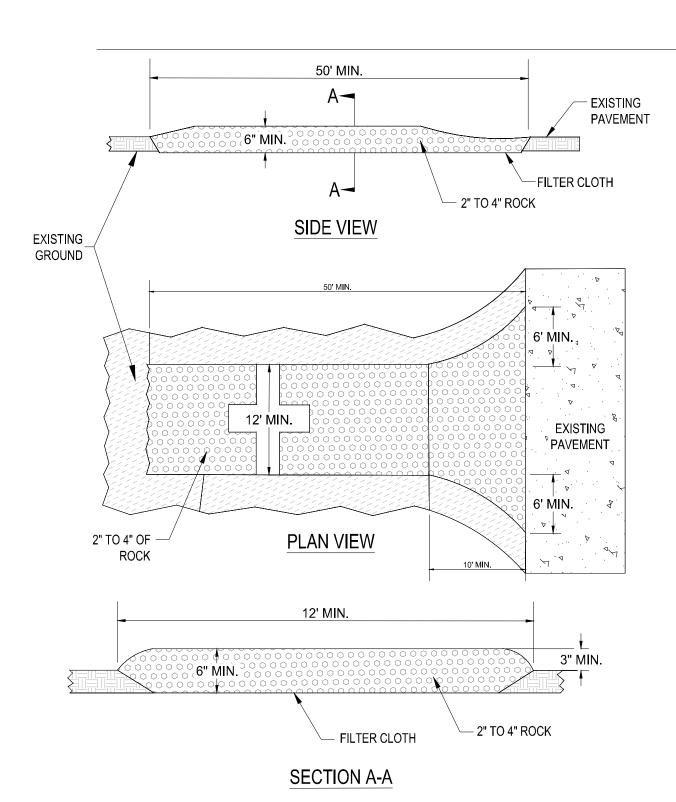
located in any area that will allow for the discharge of

Section 19	Provide a detailed description of the maintenance plan for all structural and non-structural controls to assure that they remain in good and effective operating condition.			
	Contractor shall provide routine maintenance of permanent and temporary sediment and erosion control features in accordance with the technical specifications or as follows, whichever is more stringent:			
	 Silt fence shall be inspected at least weekly. Any required repairs shall be made immediately. Sediment deposits shall be removed when they reach approximately one-half the height of the barrier. Maintenance shall be performed on the rock entrance when any void spaces are full of sediment. Inlet(s)/outfalls shall be inspected immediately after each rain event and any required repairs to the filter inlets, silt fence, or filter fabric shall be performed immediately. Bare areas of the site that were previously seeded shall be reseeded per manufactures' instructions. Mulch and sod that has been washed out shall be replaced immediately. Maintain all other areas of the site with proper controls as necessary. 			
Section 20	Inspections: Describe the inspection and inspection documentation procedures, as required by the FDEP NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities.			
	Qualified personnel will inspect all points of discharges, all disturbed areas of construction that have not been stabilized, constructed areas and locations where vehicles enter and exit the site, and all BMPs at least once every 7 calendar days and within 24 hours of the end of a rainfall event that is 0.5 inches or greater. Where sites have been finally stabilized, said inspections shall be conducted at least once every month until the Notice of Termination is filed.			
Section 21	Identify and describe all sources of non-stormwater discharges as allowed by the FDEP NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities.			
	The contractor is required to submit a dewatering plan to SFWMD for approval prior to commencement of any construction activities that require dewatering. This plan shall include any stockpile areas and excavation areas. The contractor is responsible for documenting this portion of the SWPPP. If contaminated soil or groundwater is encountered, contact the District Hazardous Materials Coordinator			
Section 22	Site Map			
	The construction plans will substitute as site maps. Locations of the required information are described below.			
	Drainage Patterns: The drainage flow directions are shown on the Paving and Drainage Plan.			
	Approximate Slopes: The slopes of the site can be seen on the Grading and Drainage plan and cross sections.			
	Areas of Soil Disturbance: The areas to be disturbed are indicated on the plan. Any areas where permanent features are shown to be constructed above or below ground will be disturbed.			
	Areas not to be disturbed: Those areas shown outside of the limits of the silt fence will not be disturbed.			
	Locations of Controls: The erosion control devices and locations are shown on the Sediment & Erosion Control Plan.			
	Areas to be stabilized: Temporary stabilization practices are also shown on the plans, if applicable. Areas of permanent stabilization are shown on the Paving and Drainage Plan.			
	Surface Water: Surface water for the project is collected by inlets and culverts and directed to the Water Management Tracts within the Riverland Development, which are part of the Riverland Master Stormwater Management System. All water quality and attenuation is provided by the master system.			
	Receiving Waters: The Riverland Master Stormwater Management System discharges to the C-23 Canal and the ultimate outfall is the North Fork of the St. Lucie River.			
Section 23	All contractor(s) and subcontractor(s) identified in the SWPPP must sign the following certification:			
	"I certify under penalty of law that I understand, and shall comply with, the terms and conditions of the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities and this Stormwater Pollution Prevention Plan prepared thereunder. This document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."			

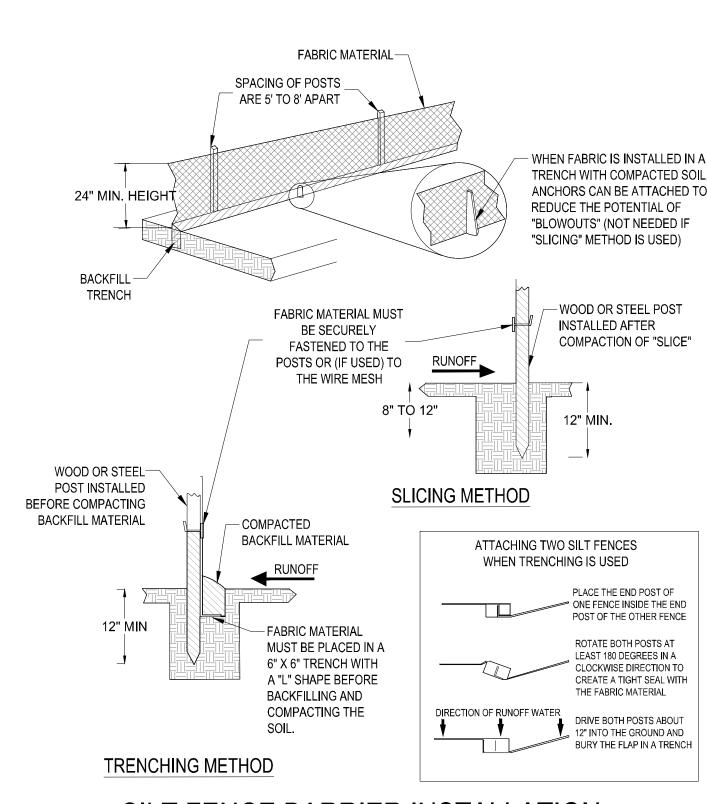
Section 23

Name	Title	Company Name, Address and Phone Number	Responsible Items	Date

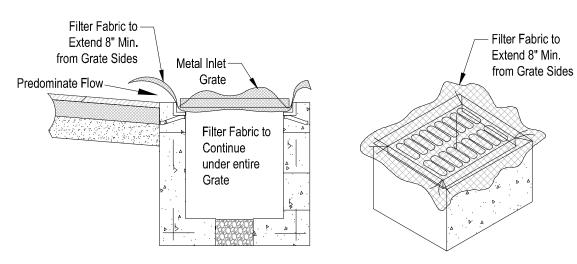
Name (Operator and/or Responsible Authority)



SOIL TRACKING PREVENTION DEVICE



SILT FENCE BARRIER INSTALLATION



PICTORIAL VIEW

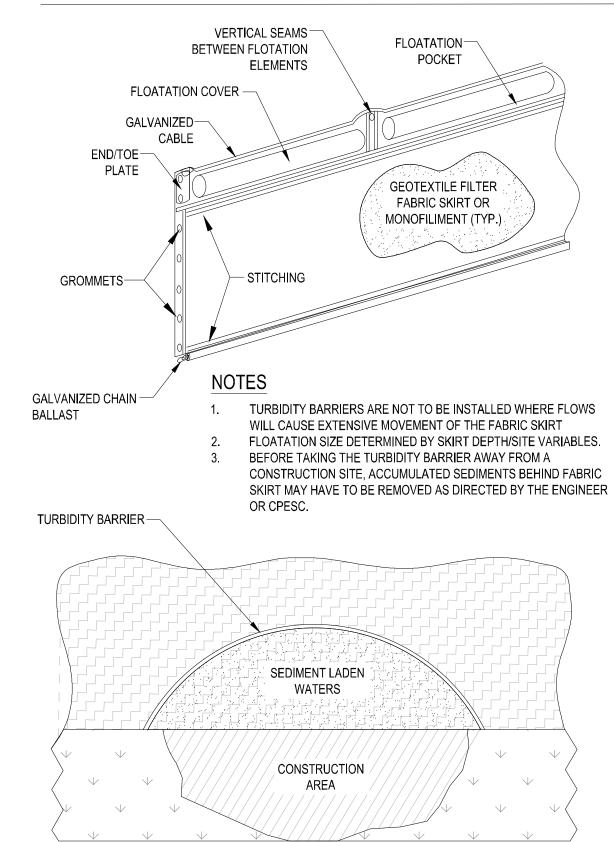
GENERAL NOTES: 1. THIS INLET IS DESIGNED WITH FILTER FABRIC PROTRUDING 8" FROM SIDES FOR GRIPPING WHEN SEDIMENT NEEDS TO BE CLEARED AFTER FINAL CONSTRUCTION. 2. FILTER FABRIC TO BE INSTALLED AND TRIMMED BEFORE GRATE IS INSET.

GRATE LESS THAN -5% SLOPE PLAN VIEW ATTACH FILTER FABRIC-TOP FRAME NECESSARY SECURELY TO 2x4 WOOD FOR STABILITY FRAME, OVERLAPPING FABRIC TO NEXT STAKE -PONDING HEIGHT 18" MAX ^{36" MAX} 2 x 4 WOOD FRAME 4 SIDES OF D.I. DROP

SECTION A-A

- 1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS
- THAN 5%) 2. USE 2 x 4 WOOD OR EQUIVALENT METAL STAKES, (3' MIN. LENGTH)
- 3. INSTALL 2 x 4 WOOD TOP FRAME TO INSURE STABILITY.
- 4. THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE OF THE STRUCTURE.

SILT FENCE DROP INLET SEDIMENT BARRIER



TURBIDITY BARRIER



CITY OF PSL PROJECT NO. P22-288

FILTER FABRIC DETAIL

PSLUSD FILE NO. 5268D

PREVENTION PLAN SHEET NUMBER:

PROJECT No. DRAWN BY:

CHECKED BY:

SHEET TITLE:

DARREN GUETTLER, PE

FLORIDA LICENSE No. 74637

7/27/23

DATE: 07/21/2022 CAD I.D.:22- 1022 - STORMWATER

STORMWATER

POLLUTION

NGINEERING & SURVEYING, 1449 NW COMMERCE CENTRE DR

PORT ST. LUCIE, FL 34986

PHONE: (772) 879-0477

FBPE C.O.A. # 32222

COMMENT:

PER SPRC

COMMENTS

PER SPRC

COMMENTS

PER SPRC

COMMENTS

REVISIONS:

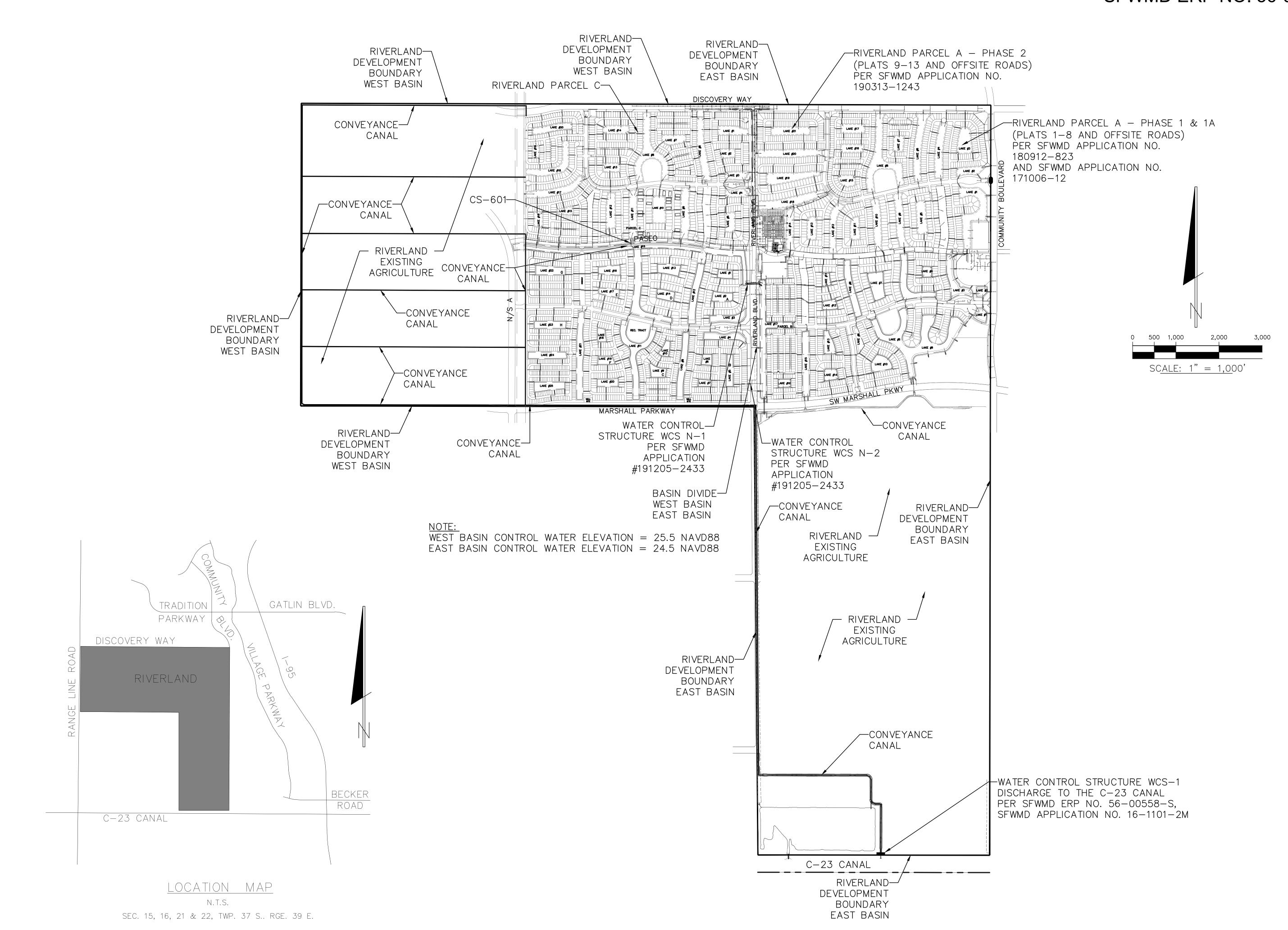
SG 12/15/22

SG 05/26/23

SG 07/25/23

Section 18 Other:

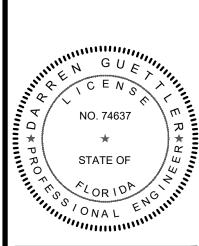
SFWMD ERP NO. 56-00558-S





SIVERLAND PARCEL
PLAT FOUR
CITY OF PORT ST. LUCIE,

RIVERLAND ASSOCIATES IV LLLP



DARREN GUETTLER, PE FLORIDA LICENSE No. 74637 7/27/23

PROJECT No.: 22-1022
DRAWN BY: SOG
CHECKED BY: DG
DATE: 07/21/2022
(2AD)2DMASTER DRAINAGE PLAN

©A®2®MASTER DRAINA
SHEET TITLE:

KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG

It's fast. It's free. It's the law.

SHEET NUMBER:

CITY OF PSL PROJECT NO. P22-288 PSLUSD FILE NO. 5268D