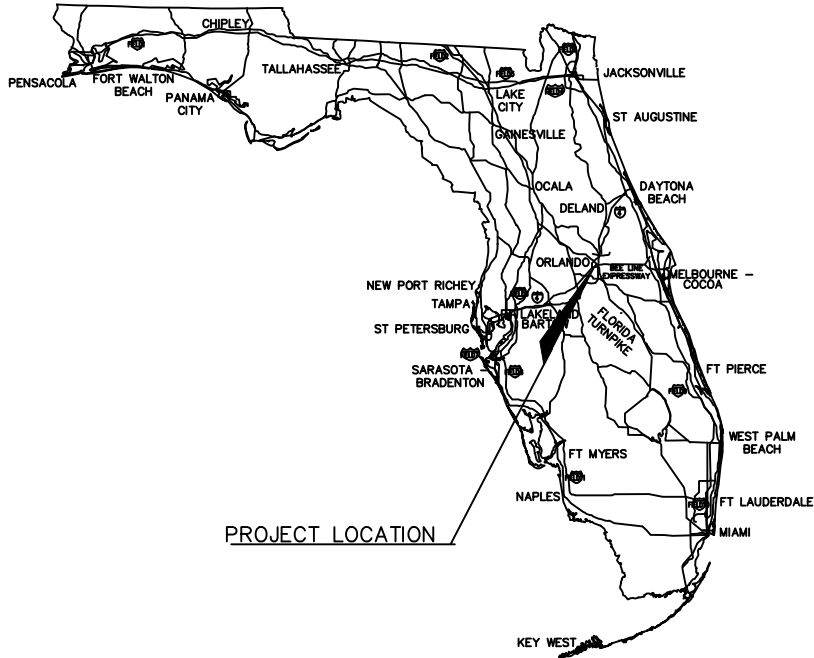
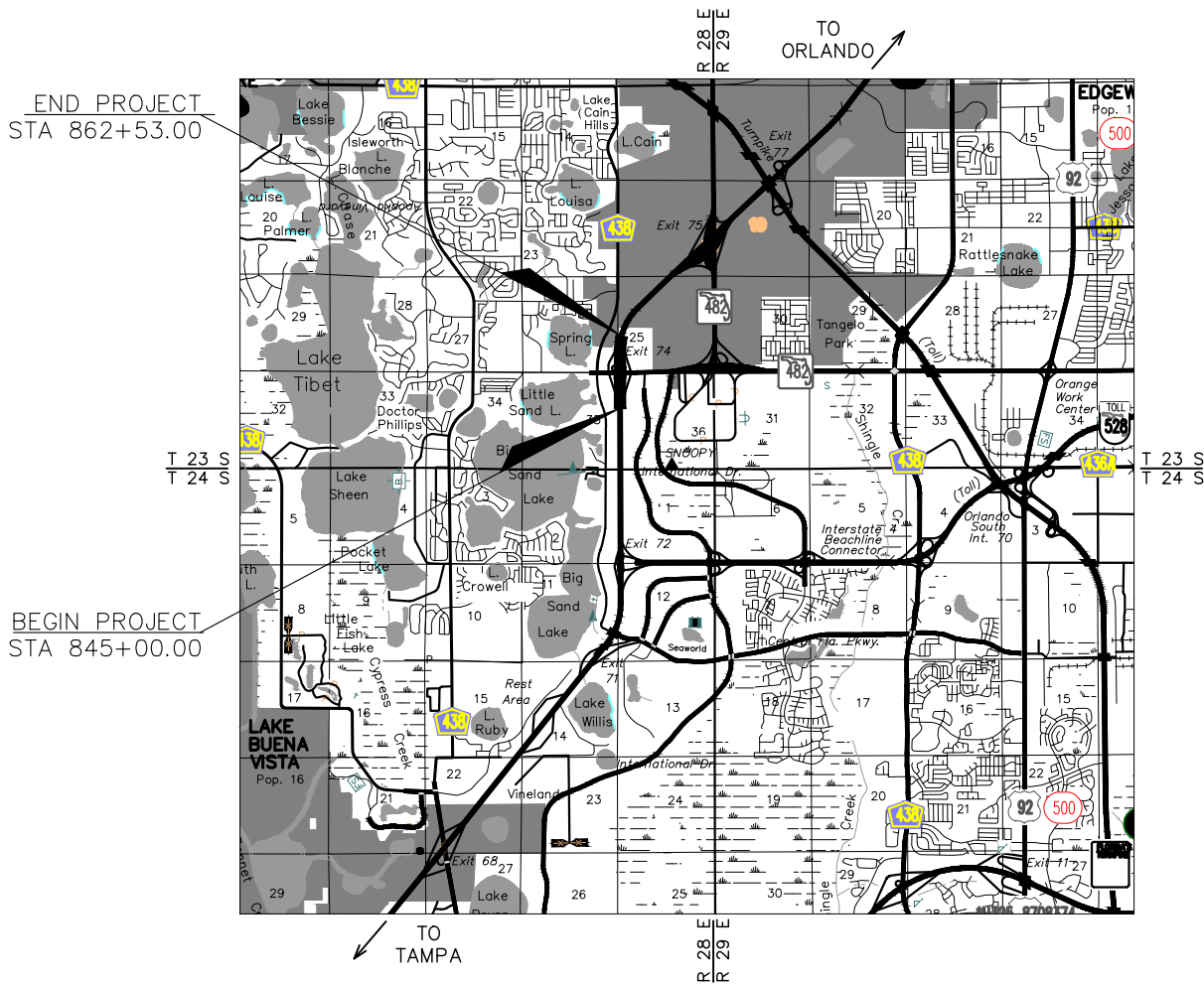


STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
LANDSCAPE AND HARDSCAPE
AESTHETICS PLANS

INDEX OF LANDSCAPE PLANS

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ORANGE COUNTY
FINANCIAL PROJECT ID 444315-1-52-01
STATE ROAD NO. SR 400



PLANS PREPARED FOR:



GOVERNING DESIGN STANDARDS:
Florida Department of Transportation, FY2019-20 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road and Bridge Construction and applicable IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

APPLICABLE DSRs: N/A

GOVERNING STANDARD SPECIFICATIONS:
Florida Department of Transportation, July, 2019 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

REVISED DESIGN DEVELOPMENT
PLANS
08-23-2024

SHEET
NO.

GENERAL NOTES

1. SEE CIVIL ENGINEERING DRAWINGS FOR GENERAL GRADING OF THE SITE AND FINISH GRADES FOR PARKING LOTS, ROADWAYS, SIDEWALKS, RAMPS, AND PLANTING AREAS.
2. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PROJECT SITE PRIOR TO BIDDING THE WORK. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND LOCATION OF PROPOSED IMPROVEMENTS PRIOR TO INITIATING ANY CONSTRUCTION.
3. LOCATION OF ALL UTILITIES AND BASE INFORMATION IS APPROXIMATE. CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES AND OBSTRUCTIONS PRIOR TO INITIATING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY DAMAGE TO EXISTING ELEMENTS ABOVE OR BELOW GROUND TO ITS ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
4. THE OWNER'S REPRESENTATIVE SHALL HAVE THE RIGHT, AT ANY STAGE OF THE OPERATIONS, TO REJECT ANY AND ALL WORK AND MATERIAL WHICH, IN HIS OPINION, DO NOT MEET WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS.
5. ALL GRADES, DIMENSIONS, AND EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR ON-SITE BEFORE CONSTRUCTION BEGINS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
6. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE PRIOR TO START OF CONSTRUCTION AND/OR FABRICATION. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS.
7. REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND FIELD CONDITIONS TO THE OWNER'S REPRESENTATIVE.
8. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY MEASURES DURING CONSTRUCTION OPERATIONS TO PROTECT THE PUBLIC ACCORDING TO ALL APPLICABLE CODES AND RECOGNIZED LOCAL PRACTICES.
9. THE CONTRACTOR SHALL COORDINATE ACCESS AND STAGING AREAS WITH THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION. PROVIDE ADDITIONAL MEASURES AS NECESSARY TO MINIMIZE ADVERSE IMPACTS IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
10. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE. DURING THE COURSE OF THIS WORK, EXCESS WASTE MATERIAL SHALL BE REMOVED DAILY FROM THE SITE.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATION OF WORK WITH OTHER TRADES AND THE OWNER'S REPRESENTATIVE.
12. THE CONTRACTOR SHALL NOTIFY ALL NECESSARY UTILITY COMPANIES 48 HRS MINIMUM PRIOR TO DIGGING FOR FIELD VERIFICATION OF ALL UNDERGROUND UTILITIES.
13. ALL EXISTING SITE ROADS, PARKING LOTS, CURBS, UTILITIES, SEWERS, AND OTHER ELEMENTS TO REMAIN SHALL BE FULLY PROTECTED FROM ANY DAMAGE UNLESS OTHERWISE NOTED.

REVISIONS				PREPARED BY: COMMUNITY SOLUTIONS 618 South Street Suite 700 Orlando, FL 32801 407.423.8398 Certificate of Authorization: EB9951 Anne G West, P.L.A LA # 6667082	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		GN.01
			DRAFT– NOT FOR CONSTRUCTION		SR 400	ORANGE	444315–1–52–01		

LANDSCAPE NOTES

1. THE CONTRACTOR SHALL REVIEW ARCHITECTURE/ENGINEERING PLANS TO BECOME THOROUGHLY FAMILIAR WITH SURFACE AND SUBSURFACE UTILITIES.
2. THE PLANT QUANTITIES SHOWN ON THE LANDSCAPE CONTRACT DOCUMENTS ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES AND REPORTING ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT FOR CLARIFICATION PRIOR TO CONTRACT AWARD AND COMMENCEMENT OF WORK.
3. ALL INSTALLATION OF PLANT MATERIAL SHALL COMPLY WITH APPLICABLE JURISDICTIONAL CODES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS ASSOCIATED WITH THIS WORK.
4. PRIOR TO PLANTING INSTALLATION, THE CONTRACTOR SHALL CONFIRM THE AVAILABILITY OF ALL THE SPECIFIED PLANT MATERIALS. SUBMIT DATED PHOTOGRAPHS OF TREE MATERIAL AND SPECIMEN PLANT MATERIAL TO THE OWNER'S REPRESENTATIVE FOR REVIEW.
5. ALL PLANT MATERIAL SIZES SPECIFIED ARE MINIMUM SIZES. CONTAINER SIZE SHALL BE INCREASED IF NECESSARY TO PROVIDE OVERALL PLANT SIZE SPECIFIED.
6. IF PLANT MATERIAL DOES NOT COMPLY WITH THE REQUIREMENTS AS SPECIFIED HEREIN, THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT SUCH PLANTS AND REQUIRE THE CONTRACTOR TO REPLACE REJECTED WORK AND CONTINUE SPECIFIED MAINTENANCE UNTIL REINSPECTED AND FOUND TO BE ACCEPTABLE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STABILITY AND PLUMB CONDITION OF ALL TREES AND SHRUBS, AND SHALL BE LEGALLY LIABLE FOR ANY DAMAGE CAUSED BY INSTABILITY OF ANY PLANT MATERIALS. STAKING OF TREES OR SHRUBS SHALL BE DONE IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
8. THE CONTRACTOR SHALL INSURE ADEQUATE VERTICAL DRAINAGE IN ALL PLANT BEDS AND PLANTERS. IF INADEQUATE VERTICAL DRAINAGE IS ENCOUNTERED, THE CONTRACTOR SHALL SUBMIT RECOMMENDATIONS FOR PROVIDING ADEQUATE DRAINAGE TO THE OWNER'S REPRESENTATIVE.
9. PEG SOD ON SLOPES GREATER THAN 3:1.
10. THE CONTRACTOR SHALL ENGAGE A QUALIFIED TREE SURGEON WHO HAS SUCCESSFULLY COMPLETED TREE PROTECTION AND TREE TRIMMING WITH FIVE YEARS OR MORE EXPERIENCE, TO PERFORM THE FOLLOWING WORK:

A. REMOVE BRANCHES FROM TREES THAT ARE TO REMAIN, IF REQUIRED, AS DIRECTED BY OWNER'S REPRESENTATIVE.

B. PERFORM INITIAL PRUNING OF BRANCHES AND STIMULATION OF ROOT GROWTH WHERE REMOVED TO ACCOMMODATE NEW CONSTRUCTION.

C. PERFORM TREE REPAIR WORK FOR DAMAGE INCURRED BY NEW CONSTRUCTION.
11. CONTRACTOR SHALL PROVIDE TEMPORARY IRRIGATION SYSTEM FOR RELOCATED TREES.
12. CONTRACTOR SHALL PROTECT EXISTING VEGETATION TO REMAIN AS SHOWN ON DRAWINGS OR BY MEANS APPROVED BY THE OWNER'S REPRESENTATIVE.
13. CONTRACTOR TO CLEAN, PRUNE, AND SHAPE EDGES OF EXISTING VEGETATION AS DIRECTED BY OWNER'S REPRESENTATIVE. CREATE SMOOTH BED LINES AROUND EXISTING VEGETATION.
14. CONTRACTOR SHALL FIELD-ADJUST LOCATION OF PLANT MATERIAL PRIOR TO INITIATING INSTALLATION FOR THE REVIEW AND APPROVAL OF THE OWNER'S REPRESENTATIVE.
15. ALL PLANT MATERIAL SHALL BE IN FULL AND STRICT ACCORDANCE WITH FLORIDA NO. 1 GRADE, ACCORDING TO THE "GRADES AND STANDARDS FOR NURSERY PLANTS" PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
16. ALL PLANTING BEDS SHALL BE TOP-DRESSED WITH A 3" LAYER OF PINE STRAW MULCH (FINES). CONTRACTOR TO SUBMIT SAMPLE FOR APPROVAL. ALL TREES SHALL HAVE A 3" THICK, 24" RADIUS (FROM THE TRUNK) MULCH RING PLACED AROUND THE BASE OF TREE.
17. SHRUB AND GROUND COVER BED QUANTITIES ARE INDICATED ON THE PLANT LIST. PLANT ACCENT SHRUBS AND TREES AS SHOWN ON THE LANDSCAPE PLANTING PLANS WHEN INDIVIDUAL PLANTS ARE DELINEATED.
18. PALM HEIGHTS, AS INDICATED ON THE PLANS, REFER TO CLEAR TRUNK (C.T.), GRAY WOOD (G.W.), OR OVERALL HEIGHT (O.A.) AS SPECIFIED ON THE PLANT LIST.
19. CONTRACTOR SHALL COORDINATE ALL PLANTING WORK WITH IRRIGATION WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HAND WATERING AS REQUIRED TO SUPPLEMENT IRRIGATION WATERING AND RAINFALL.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR HAND WATERING IN ALL PLANTING AREAS, REGARDLESS OF THE STATUS OF EXISTING OR PROPOSED IRRIGATION.
21. CONTRACTOR SHALL REGRADE ALL AREAS DISTURBED BY PLANT REMOVAL, RELOCATION, AND/OR INSTALLATION WORK.
22. CONTRACTOR SHALL REPLACE (BY EQUAL SIZE AND QUALITY) ANY AND ALL EXISTING PLANT MATERIAL DISTURBED OR DAMAGED BY PLANT REMOVAL, RELOCATION, AND/OR INSTALLATION WORK.
23. MAINTENANCE SHALL BEGIN AFTER EACH PLANT HAS BEEN INSTALLED AND SHALL CONTINUE UNTIL THE DATE OF SUBSTANTIAL COMPLETION. MAINTENANCE INCLUDES WATERING, PRUNING, WEEDING, MULCHING, REPLACEMENTS OF SICK OR DEAD PLANTS, AND ANY OTHER CARE NECESSARY FOR THE PROPER GROWTH OF THE PLANT MATERIAL.
24. UPON COMPLETION OF ALL LANDSCAPING, AN INSPECTION FOR SUBSTANTIAL COMPLETION OF THE WORK SHALL BE HELD. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR SCHEDULING THE INSPECTION AT LEAST SEVEN (7) DAYS PRIOR TO THE ANTICIPATED INSPECTION DATE.
25. CONTRACTOR SHALL SUBMIT WRITTEN GUARANTEE OF SURVIVABILITY OF ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.
26. CONTRACTOR MUST APPROVE ALL GRADED AREAS PRIOR TO THE COMMENCEMENT OF PLANTING.
27. PLANT PHOTOGRAPHS: CONTRACTOR SHALL PROVIDE REPRESENTATIVE PHOTOGRAPHS OF ALL PLANT MATERIALS SPECIFIED OVER 7 GALLONS IN SIZE WITH A MEASURING ROD INCLUDED IN THE PHOTOGRAPH. AT OWNER'S OPTION, CONTRACTOR MAY BE REQUIRED TO COORDINATE WITH OWNER TAGGING TRIPS TO VIEW ALL LARGER PLANT MATERIALS.
28. ALL CERTIFICATES, REPORTS, AND SAMPLES SHALL BE SUBMITTED BY THE CONTRACTOR TO THE OWNER A MINIMUM OF TWO WEEKS PRIOR TO THE INSTALLATION OF ANY OF THE MATERIALS. CONTRACTOR SHALL NOT BEGIN WORK UNTIL ALL SUBMITTALS HAVE BEEN APPROVED BY THE OWNER. SUBMITTALS REQUIRED BUT NOT LIMITED TO THE FOLLOWING:

A. EXISTING SOIL ANALYSIS AND SAMPLE

B. PREPARED SOIL ANALYSIS AND SAMPLE

C. MULCH SAMPLE

D. EROSION CONTROL FABRIC SAMPLE AND PRODUCT SHEET

E. PRE- AND POST-EMERGENCE HERBICIDE

F. WEED ERADICATION TREATMENT FOR LAWN GRASS

G. FOLIAR SPRAY FERTILIZER(S)

H. PLANT SAMPLES AND/OR PHOTOGRAPHS

I. DRAINAGE GRAVEL SAMPLE

J. LIST OF PERSONNEL, QUALIFICATIONS, AND SCHEDULE

K. GUYING METHODOLOGIES

L. LEAF ANTI-DESICCANT SPRAY

M. MAINTENANCE MANUAL

N. SOIL SEPARATOR SAMPLE AND PRODUCT SHEET

O. ADS PIPE PRODUCT CUT SHEETS

P. FLUID APPLIED MEMBRANE WATERPROOFING FOR LANDSCAPE POTS

SOILS

29. THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING OF SOILS, AMENDMENTS, ETC. ASSOCIATED WITH THE WORK. SEE BELOW FOR ADDITIONAL TESTING REQUIREMENTS.
30. THE CONTRACTOR SHALL PROVIDE SOIL TEST REPORTS OF EXISTING SOIL CONDITIONS AT SELECTED LOCATIONS WITHIN THE PROJECT AREA AT TEST SITES APPROVED BY THE OWNER. SOIL TEST REPORTS SHALL ALSO BE SUPPLIED TO THE OWNER.
31. PROVIDE A CHEMICAL ANALYSIS REPORT OF EACH INDIVIDUAL SAMPLE TO COVER THE FOLLOWING:

A. PERCENTAGE OF ORGANIC MATTER; PERCENTAGE OF SAND, SILT, AND CLAY CONTENT; SALINITY; AND pH

B. MINERAL NUTRIENTS, INCLUDING CONCENTRATIONS OF NITROGEN, PHOSPHORUS, POTASSIUM, CALCIUM, AND MAGNESIUM.

C. FURNISH DATA ON POTENTIAL HAZARDS OR IMPEDIMENTS TO PLANT GROWTH FROM SALINITY, SODIUM, BORON, OR IMPAIRED SOIL STRUCTURE.

D. PERCOLATION RATE.
32. PROVIDE RECOMMENDATIONS FOR ORGANIC MATERIALS, FERTILIZERS, AND OTHER MATERIALS FOUND NECESSARY TO AMEND THE SPECIFIED PLANTING MIX FOR OPTIMUM PLANT GROWTH.
33. PRESCRIBE A BACKFILL MIX OR MIXES, AS APPROPRIATE, TO BE EMPLOYED IN THE PLANTING OF ALL PLANTS FOR THE PROJECT IF SOILS TEST REPORTS INDICATE INADEQUACIES IN THE SPECIFIED PLANTING MIX.
34. IF SO DIRECTED BY THE OWNER, PROVIDE LABORATORY TESTING AND EVALUATIONS OF STOCKPILES OF PREPARED BACKFILL, AND MAKE RECOMMENDATIONS FOR CORRECTIVE MEASURES.
35. PERIODIC SAMPLING AND LABORATORY TESTING OF PREPARED LANDSCAPE PLANTING AREAS TO ASSURE COMPLIANCE WITH RECOMMENDATIONS AND REQUIREMENTS OF THE CONTRACT DOCUMENTS MAY BE REQUESTED. AREAS OF TESTING AND QUANTITY OF TESTS SHALL BE AS DIRECTED BY THE OWNER.
36. THE SOIL TEST REPORTS WITH THE DATES AND TEST SITE LOCATIONS CLEARLY MARKED SHALL BE SUBMITTED TO THE OWNERS REPRESENTATIVE PRIOR TO ANY PLANTING.
37. THE CONTRACTOR SHALL PROVIDE AN APPROVED PLANTING SOIL MIXTURE FOR ALL PLANT MATERIAL.
38. TOPSOIL: PROVIDE TOPSOIL THAT IS:

A. NATURAL SURFACE SOIL FROM WELL-DRAINED AREAS, FERTILE, FRIABLE AND FREE OF WEEDS, TYPICAL OF PRODUCTIVE, CULTIVATED TOPSOILS OF THE LOCALLY.

B. NOT EXCESSIVELY ACID OR ALKALINE (pH 5.5 TO 7.0), NOR CONTAINING TOXIC SUBSTANCES.

C. WITHOUT ADMIXTURE OF SUB-SOIL AND REASONABLY FREE OF CLAY, STONES, STUMPS, ROOTS, OR OTHER SIMILAR SUBSTANCES ONE INCH (1") OR MORE IN DIAMETER OR ANY OTHER OBJECT WHICH MAY BE A HINDRANCE TO THE FINISH-GRADING OPERATION.

D. ACCEPTABLE TOPSOIL FROM THE SITE AND ANY IMPORTED SOIL USED ON THE PROJECT SHALL BE A NATURAL, FERTILE, FRIABLE SOIL POSSESSING CHARACTERISTICS REPRESENTATIVE OF A WELL-DRAINED AREA IN FLORIDA.

E. SOIL CONTAINING MUCK OR POORLY-DRAINED SOILS SHALL NOT BE USED.

F. ACCEPTABLE SOIL FROM THE SITE MAY BE SUBSTITUTED FOR TOPSOIL AND/OR SAND, BASED UPON THE RESULTS OF THE LABORATORY ANALYSIS.
39. PREPARED PLANTING MIX:

A. SOIL USED FOR PLANTING SHALL BE FREE FROM STICKS, ROOTS, STONES, OR OTHER EXTRANEQOUS MATERIAL DETRIMENTAL, DETRIMENTAL OR INJURIOUS TO PLANTS. PARTICULAR CARE SHOULD BE TAKEN TO REMOVE PIECES OF MORTAR, CEMENT, WOOD, AND OTHER SIMILAR REMAINS OF CONSTRUCTION FROM ALL PLANTING AREAS.

B. SOIL USED FOR PLANTING MIX SHALL BE AS FOLLOWS: 1/3 APPROVED TOPSOIL, 1/3 FLORIDA PEAT, AND 1/3 CLEAN D.O.T. SAND. MATERIAL MIXING OF THE BACKFILL MIX WILL BE OUT OF THE PIT OR BED BY APPROVED MECHANICAL METHODS. THE RESULTANT SHALL BE AN EVEN MIXTURE WHICH WILL BE HAND-SHOVELED INTO PLACE.

C. PLANTING SOIL MIX TO BE PLACED AS A GROWING MEDIUM FOR ALL ANNUALS: 1/2 CLEAN, COARSE-GRAINED SAND, 1/4 APPROVED FLORIDA PEAT, 1/8 FINE-MILLED COMPOSTED PINE STRAW, 1/8 VERMICULITE.
40. AT THE CONTRACTOR'S EXPENSE, SAMPLES OF EXISTING ON-SITE SOILS WILL BE SUBMITTED TO A CERTIFIED TESTING LABORATORY, FOR ANALYSIS AS TO THE SUITABILITY OF THE PLANTING MIX SPECIFIED ABOVE TO OBTAIN A pH OF 5.5 TO 6.5. THE FINDINGS, TOGETHER WITH ANY RECOMMENDATIONS FOR AMENDING THE SPECIFIED PLANTING MIX SHALL BE REVIEWED AND APPROVED BY THE OWNER PRIOR TO DELIVERY AND INSTALLATION OF PLANT MATERIALS AT THE JOB.

A. AT THE CONTRACTOR'S EXPENSE, SOIL AMENDMENTS SHALL BE ADDED TO ANY SOIL USED FOR PLANTING AND IN PLANTING BEDS AND PLANT PITS IN THE AMOUNT AND MANNER PRESCRIBED BY A SOIL ANALYSIS. RESULTS FROM SOIL ANALYSIS AND A LIST OF THE PRESCRIBED AMENDMENTS SHALL BE PRESENTED TO THE OWNER PRIOR TO INCORPORATING INTO THE SOIL.

B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE ACCEPTABLE SOIL TO PREPARE THE PLANTING MIXTURE. THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND MIXING SOIL AMENDMENTS AND MOVING THE PLANTING TO THE PLANT PITS AND BEDS.
41. FERTILIZER FOR LAWNS: SLOW-RELEASE, GRANULAR OR PELLETTED FERTILIZER CONSISTING OF 50-PERCENT (50%) WATER-INSOLUBLE NITROGEN, PHOSPHORUS, AND POTASSIUM IN THE FOLLOWING COMPOSITION:

A. NITROGEN, PHOSPHOROUS, AND POTASSIUM IN AMOUNTS RECOMMENDED IN SOIL REPORTS FROM A QUALIFIED SOIL-TESTING AGENCY.
42. FERTILIZER FOR TREES, SHRUBS AND GROUNDCOVERS: FERTILIZER SHALL BE AGRIFORM 21 GRAM TABLETS, SLOW RELEASE, 20-15-5 ANALYSIS. FERTILIZER TABLETS SHALL BE INSERTED INTO THE SOIL, EVENLY DISTRIBUTED AROUND THE ROOTBALL, AT A DEPTH APPROXIMATELY EQUAL TO ONE-HALF THE DEPTH OF THE ROOTBALL. QUANTITIES PER PLANT ARE AS FOLLOWS:

A. 1 GALLON PLANTS - 1 TABLET

B. 3 GALLON PLANTS - 2 TABLETS

C. 5 GALLON PLANTS - 3 TABLETS

D. 7 GALLON PLANTS - 4 TABLETS

E. 10 GALLON PLANTS - 5 TABLETS

F. 15 GALLON PLANTS - 7 TABLETS

G. STANDARD TREES - 4 TABLETS PER INCH OF CALIPER

H. MULTI-TRUNK TREES - 2 TABLETS PER FOOT OF HEIGHT
43. PEAT/HUMUS: PROVIDE PEAT/HUMUS CONSISTING OF:

A. PEAT SHALL CONSIST OF NINETY-PERCENT (90%) ORGANIC PEAT AND SHALL BE SUITABLE FOR HORTICULTURAL PURPOSES.

B. PEAT SHALL BE BROWN IN COLOR, CLEAN, LOW IN CONTENT OF MINERAL AND WOODY MATERIAL, pH 4 TO 5, AND SHALL BE SHREDDED INTO PARTICLES NOT LARGER THAN ONE-HALF INCH (1/2") IN DIAMETER.

C. PEAT SHALL CONTAIN NO MORE THAN THIRTY-FIVE-PERCENT (35%) MOISTURE AND THE ASH CONTENT NOT EXCEED TEN-PERCENT (10%) AND FREE FROM WEEDY GRASSES, SEDGES, RUSHES, OR MINERAL MATTER HARMFUL TO PLANT GROWTH.
44. MULCH FOR PLANTING AREAS: AS DESIGNATED ON THE DRAWINGS
45. DOLOMITIC LIMESTONE:

A. GROUND LIMESTONE CONTAINING NOT LESS THAN EIGHTY-FIVE-PERCENT (85%) OF TOTAL CARBONATE AND GROUND TO SUCH A SIZE THAT FIFTY-PERCENT (50%) WILL PASS THROUGH A 100-MESH SIEVE AND NINETY-PERCENT (90%) WILL PASS THROUGH A 200-MESH SIEVE.

B. COARSER MATERIALS WILL BE ACCEPTABLE, PROVIDED THE SPECIFIED RATES OF APPLICATION ARE INCREASED PROPORTIONATELY ON THE BASIS OF QUANTITIES PASSING THE 100-MESH SIEVE.
46. ALUMINUM SULFATE: SHALL BE A RECOGNIZED MANUFACTURER'S STANDARD COMMERCIAL GRADE.
47. ANTI-DESICCANT: "WILT-PRUF", "DOWWAX", "FOILGARD", OR OWNER-APPROVED EQUIVALENT DELIVERED IN MANUFACTURER'S CONTAINERS
48. STAKES FOR GUYING TREES: AS DETAILED ON THE DRAWINGS.
49. TREE WRAPPING: FIRST-QUALITY, HEAVY-WATERPROOF CREPE PAPER MANUFACTURED FOR TREE WRAPPING.

REVISIONS				PREPARED BY: COMMUNITY SOLUTIONS 618 South Street Suite 700 Orlando, FL 32801 407.423.8398 Certificate of Authorization: EB9951 Anne G West, P.L.A LA # 6667082	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		GN.02
			DRAFT- NOT FOR CONSTRUCTION		SR 400	ORANGE	444315-1-52-01		

HARDSCAPE NOTES

1.

ALL PAVEMENT SHALL BE STAKED IN THE FIELD FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION. ALIGNMENT MAY BE ADJUSTED UPON APPROVAL TO ACCOMMODATE EXISTING SITE ELEMENTS.

2.

SLOPES OF WALKS TO BE NO GREATER THAN FOUR PERCENT, UNLESS EXPRESSLY NOTED OTHERWISE. CROSS-SLOPE OF WALKS NOT TO EXCEED TWO PERCENT.

3.

ALL COLORS AND MATERIALS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE. FOR THIS PURPOSE, THE CONTRACTOR SHALL CONSTRUCT OR SUBMIT AS DIRECTED BY THE OWNER'S REPRESENTATIVE PANELS DEPICTING PROPOSED FINISHES AND COLORS FOR REVIEW AND APPROVAL.

4.

ALL NAILS, LAG SCREWS, BOLTS AND MISCELLANEOUS FASTENERS SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.

5.

FOOTINGS HAVE BEEN DESIGNED FOR A MAXIMUM ALLOWABLE SOIL BEARING VALUE OF 2000 PSF.
FOUNDATIONS

6.

IN-PLACE SOILS TO BE UNIFORMLY COMPACTED AND TESTED TO ENSURE MINIMUM SOIL BEARING PRESSURE CAPACITY OF 2,000 PSF.

7.

ANY ADDITIONAL FILL MATERIAL REQUIRED SHALL CONSIST OF SOILS THAT CONTAIN NOT MORE THAN 12% OF FINES (SILT OR CLAY PARTICLES) PASSING A NO. 200 SIEVE AND SHALL BE PLACED IN UNIFORM LAYERS NOT EXCEEDING 12.0 INCHES LOOSE. EACH LAYER SHALL BE SYSTEMATICALLY AND UNIFORMLY COMPACTED IN THE MANNER AND TO THE DEGREE SPECIFIED FOR THE IN-PLACE SOILS.
CONCRETE

8.

STRUCTURAL CONCRETE, INCLUDING FOOTINGS, SHALL CONFORM TO THE REQUIREMENTS OF ACI 301 AND SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS OF 3000 PSI UNLESS OTHERWISE NOTED. CONCRETE FOR SLABS ON-GRADE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS OF 2500 PSI.

9.

CONCRETE, WHEN PLACED, SHALL HAVE A MAXIMUM SLUMP OF 3 INCHES AND A MINIMUM OF 1 INCH.

10.

ALL REINFORCING SHALL CONFORM TO ASTM 615 FOR GRADE 60 STEEL; WELDED WIRE MESH TO ASTM A-185.

11.

CHECK ALL DRAWINGS AND APPLICABLE MANUFACTURER'S SHOP DRAWINGS FOR LOCATION OF ALL EMBEDDED ITEMS SUCH AS PIPE SLEEVES, ANCHOR BOLTS, ETC., PRIOR TO PLACING CONCRETE.

12.

#5 REINFORCEMENT FOR CONTINUOUS FOOTINGS SHALL BE CONTINUOUS AND SPLICED WITH A FULL 30-INCH LAP.

13.

PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. START INITIAL CURING AS SOON AS FREE WATER HAS DISAPPEARED FROM THE CONCRETE SURFACE AFTER PLACING AND FINISHING. KEEP CONTINUOUSLY MOIST FOR NOT LESS THAN 7 DAYS IN ACCORDANCE WITH ACI 301 PROCEDURES. PERFORM CURING OF THE CONCRETE BY CURING AND SEALING COMPOUND, BY MOIST CURING, BY MOISTURE RETAINING COVER CURING OR BY COMBINATION THEREOF.

14.

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR THE REINFORCEMENT:

15.

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH; 3 INCHES.

16.

CONCRETE EXPOSED TO EARTH OR WEATHER: #5 BARS AND SMALLER, 1 1/2 INCHES; #6 BARS AND LARGER, 2 INCHES
MASONRY

17.

ALL MASONRY UNITS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C90 FOR LOAD BEARING MASONRY WITH A MINIMUM F'M OF 1500 PSI.

18.

MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM WITH ALL THE REQUIREMENTS OF THE "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI 530.1-95/ASCE 6-96/TMS 602-95), AS PUBLISHED BY THE MASONRY STANDARDS JOINT COMMITTEE.

19.

MASONRY CONSTRUCTION SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A "CERTIFIED STRUCTURAL MASONRY CONTRACTOR" OR "CERTIFIED STRUCTURAL MASON" AS RECOGNIZED BY THE FLORIDA CONCRETE AND PRODUCTS ASSOCIATION (FC&PA). THE SENIOR MASONRY SUPERVISOR WILL BE RESPONSIBLE TO ASSURE THAT THE WORK IS ACCOMPLISHED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

20.

ALL MORTAR SHALL BE TYPE M OR S IN ACCORDANCE WITH ASTM C 270.

21.

GROUT SHALL HAVE A MINIMUM SLUMP OF 8 INCHES, BE IN CONFORMANCE WITH ASTM C 476 AND ATTAIN A COMPRESSIVE STRENGTH OF 1800 PSI.

22.

CONCRETE MASONRY UNITS SHALL BE PLUMB, TRUE TO LINE, WITH LEVEL COURSES ACCURATELY SPACED AND BUILT TO THE THICKNESS AND IN A RUNNING BOND AS INDICATED AND CONFORMING TO THE TOLERANCES SPECIFIED IN ACI 531.1 AND 530.1. CONCRETE UNITS SHALL BE STORED OFF OF THE GROUND SURFACE AND COVERED TO PROTECT THEM FROM ABSORBING RAIN OR BEING CONTAMINATED WITH OTHER FOREIGN MATTER. CONCRETE UNITS SHALL BE DRY WHEN LAID. EACH UNIT SHALL BE ADJUSTED TO FINAL POSITION IN THE WALL WHILE THE MORTAR IS STILL SOFT AND PLASTIC. ANY UNIT DISTURBED AFTER THE MORTAR HAS STIFFENED SHALL BE REMOVED AND RELAID WITH FRESH MORTAR. VERTICAL CELLS SHALL BE ALIGNED TO PROVIDE A CONTINUOUS, UNOBSTRUCTED OPENING. ALL ANCHORS, ACCESSORIES, FLASHING AND OTHER ITEMS TO BE BUILT-IN SHALL BE INSTALLED AS THE MASONRY WORK PROGRESSES. ALL CUTTING AND FITTING OF MASONRY, INCLUDING THAT REQUIRED TO ACCOMMODATE THE WORK OF OTHERS SHALL BE DONE BY MASONRY CRAFTSMEN WITH MASONRY SAWS.

23.

HOLLOW UNITS SHALL BE LAID WITH FULL HEAD AND BED JOINTS TO THE THICKNESS OF THE FACE SHELL AS A MINIMUM. THE WEBS SHALL ALSO BE BEDDED IN ALL COURSES, STARTING AT THE FOUNDATION, ADJACENT TO CELLS TO BE REINFORCED AND/OR FILLED WITH GROUT OR CONCRETE. MORTAR JOINTS SHALL BE TOOLED WHEN THE MORTAR IS "THUMBPRINT" HARD, BOTH ON THE INSIDE AND OUTSIDE SURFACES OF THE BUILDING WALL, WITH A TOOL PRODUCING A CONCAVE SURFACE. BED JOINTS SHALL BE 3/8" + 1/8" IN THICKNESS. HEAD JOINTS SHALL BE 3/8" (+1/4" + 3/8")

24.

REINFORCING BARS SHALL BE PLACED IN THE MIDDLE OF THE CELLS AND TIED OR OTHERWISE SECURELY SUPPORTED AT THE TOP AND BOTTOM TO ENSURE THAT THE BAR DOES NOT MOVE DURING GROUTING. MINIMUM LAP AT ALL SPLICES OR DOWELS SHALL BE 30 INCHES UNLESS OTHERWISE NOTED ON THE DRAWINGS.

25.

GROUTING SHALL BE ACCOMPLISHED IN 4 FOOT LIFTS. EACH LIFT SHALL BE MECHANICALLY CONSOLIDATED INTO THE PREVIOUS LIFT, WHEN PLACED, SO AS TO PREVENT COLD JOINTS. RECONSOLIDATE AS REQUIRED. A 12 SQUARE INCH CLEANOUT OPENING SHALL BE PLACED AT THE BOTTOM OF EACH CELL TO BE FILLED AND IT SHALL BE THOROUGHLY CLEANED OUT PRIOR TO FILLING OF THE CELL. GROUT PLACEMENT STOPPED FOR MORE THAN ONE HOUR SHALL BE STOPPED BELOW THE TOP OF THE MASONRY UNIT 1-1/2" TO PROVIDE A KEY FOR SUBSEQUENT GROUTING.
26.

THE MINIMUM CONTINUOUS UNOBSTRUCTED CELL AREA IN CELL TO RECEIVE GROUT MUST NOT BE LESS THAN 2" X 3". MORTAR FINS MUST BE REMOVED AS BLOCK PLACEMENT PROCEEDS. MORTAR DROPPINGS MUST BE KEPT OUT OF CELLS WHICH ARE TO BE GROUTED.

27.

UNLESS SPECIFICALLY SHOWN OTHERWISE, PROVIDE #9 GA. "DUR-O-WALL" TRUSS TYPE REINFORCING IN EVERY OTHER COURSE OF CONTINUOUS WALLS.
- STRUCTURAL STEEL
28.

ALL STRUCTURAL STEEL SHAPES AND PLATE SHALL CONFORM TO ASTM A-36 AND THE "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION. ALL TUBE STEEL SHALL CONFORM TO ASTM A-500, GRADE B (FY = 46 KSI).

29.

ALL SHOP CONNECTIONS TO BE WELDED (UTILIZING E70XX LOW HYDROGEN ELECTRODES) AND FIELD CONNECTIONS TO BE BOLTED UNLESS OTHERWISE SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS. ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF "THE STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY.

30.

ALL STRUCTURAL STEEL TO RECEIVE ONE SHOP PRIME COAT OF APPROVED PAINT.

34.

ALL BOLTED CONNECTIONS SHALL CONSIST OF ASTM A325 HIGH STRENGTH BOLTS AND HARDENED WASHERS AS SHOWN ON THE STRUCTURAL DRAWINGS. ALL BOLTED CONNECTIONS SHALL CONFORM TO THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.

35.

ALL ANCHOR BOLTS SHALL CONFORM TO ASTM A36 OR A307 (THREADED ROD).

36.

ERECT ALL STEEL TO CONFORM TO "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND "QUALITY CRITERIA AND INSPECTION STANDARDS". FRAME TO BE PLUMB, SQUARE AND TRUE TO LINE AND LEVEL, CHECKED BY SURVEYING INSTRUMENTS.

37.

LOCATE FINISH HOLES PRECISELY TO INSURE PASSAGE THROUGH ASSEMBLED MATERIALS WITHOUT DRIFTING. ENLARGE HOLES BY REAMING IF NECESSARY. POOR MATCHING OF HOLES IS SUFFICIENT CAUSE FOR REJECTION.

38.

GROUT FOR COLUMN BASE PLATES SHALL BE NON-SHRINK GROUT BY "EMBECO" OR APPROVED EQUAL, 5000 PSI MINIMUM.
- LUMBER
39.

ALL LUMBER SHALL BE SOUTHERN YELLOW PINE, GRADE #1, KD 19% OR BETTER (FB FOR LUMBER SIZES NOTED TO BE IN CONFORMANCE WITH VALUES LISTED IN THE NATIONAL FOREST PRODUCTS ASSOCIATION NATIONAL DESIGN STANDARD SUPPLEMENT), AND SHALL CONFORM TO THE NATIONAL GRADING RULE FOR DIMENSION LUMBER, THE SOUTHERN PINE INSPECTION BUREAU AND THE SOUTHERN FOREST PRODUCTS ASSOCIATION.

40.

DO NOT LOCATE ANY HOLES CLOSER THAN FIVE (5) BOLT DIAMETERS FROM THE END OF ANY WOOD FRAMING MEMBER.

41.

ALL WOOD MEMBERS IN CONTACT WITH CONCRETE AND/OR MASONRY, EXPOSED TO THE WEATHER OR IN CONTACT WITH THE GROUND TO BE PRESSURE TREATED TO 0.80 CCA.
- ORNAMENTAL METALS
42.

ALUMINUM PLATE AND ANGLES TO BE 6061-T6.

43.

ALL WELDING TO BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY'S STANDARD AWS D1.2, STRUCTURAL WELDING CODE - ALUMINUM.

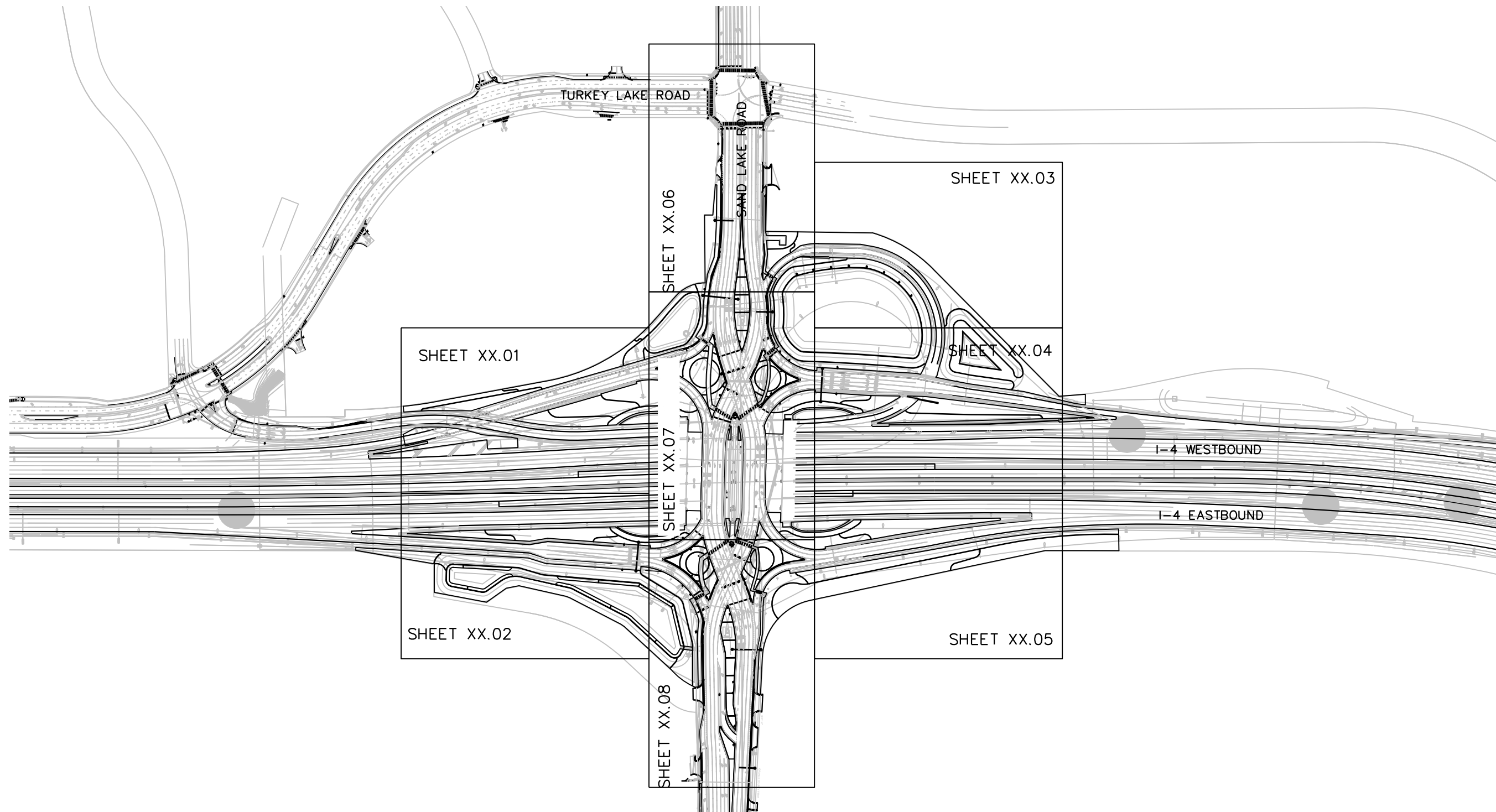
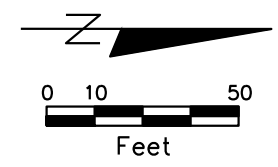
44.

ISOLATE ALL ALUMINUM FROM STEEL AND CONCRETE BY THE USE OF NEOPRENE WASHERS, BUSHINGS, AND SHEET AS REQUIRED IN ORDER TO PREVENT GALVANIC ACTION OR CORROSION.

45.

ALL ORNAMENTAL METALS TO BE SHOP PRIMED (ONE COAT) AND PAINTED WITH EXTERIOR SEMI-GLOSS ENAMEL PAINT (TWO COATS). CONTRACTOR TO SUBMIT PAINT FOR OWNER APPROVAL AND COLOR SELECTION.
- AGGREGATE
46.

COARSE AGGREGATE MATERIALS
A. COARSE AGGREGATE: COARSE ANGULAR CRUSHED WASHED STONE; FREE OF SHALE, CLAY, FRIABLE MATERIAL AND DEBRIS; GRADED IN ACCORDANCE WITH ASTM C136; WITHIN THE FOLLOWING LIMITS:
- | Sieve Size | Percent Passing |
|------------|-----------------|
| 2-inches | 100 |
| 1-inch | 95 to 100 |
| 3/4-inch | 100 |
| 1/2-inch | 25 to 60 |
| 3/8-inch | -- |
| No. 4 | 0 to 10 |
| No. 8 | 0 to 5 |
- | REVISIONS | | | | <div>PREPARED BY:
<div>COMMUNITY SOLUTIONS</div></div> <div>618 South Street
Suite 700
Orlando, FL 32801
407.423.8398
Certificate of Authorization:
EB9951
Anne G West, P.L.A
LA # 6667082</div> | STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION | | | GENERAL NOTES | SHEET NO. |
|-----------|-------------|------|-----------------------------|--|--|---------|----------------------|---------------|-----------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | |
| | | | DRAFT- NOT FOR CONSTRUCTION | | SR 400 | ORANGE | 444315-1-52-01 | | |
| | | | | | \$USERS | \$DATES | \$TIMES | \$FILES | GN.03 |



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LA # 6667082

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

KEY PLAN

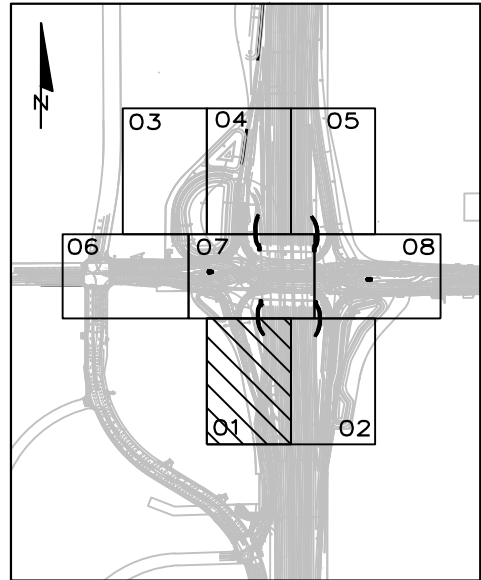
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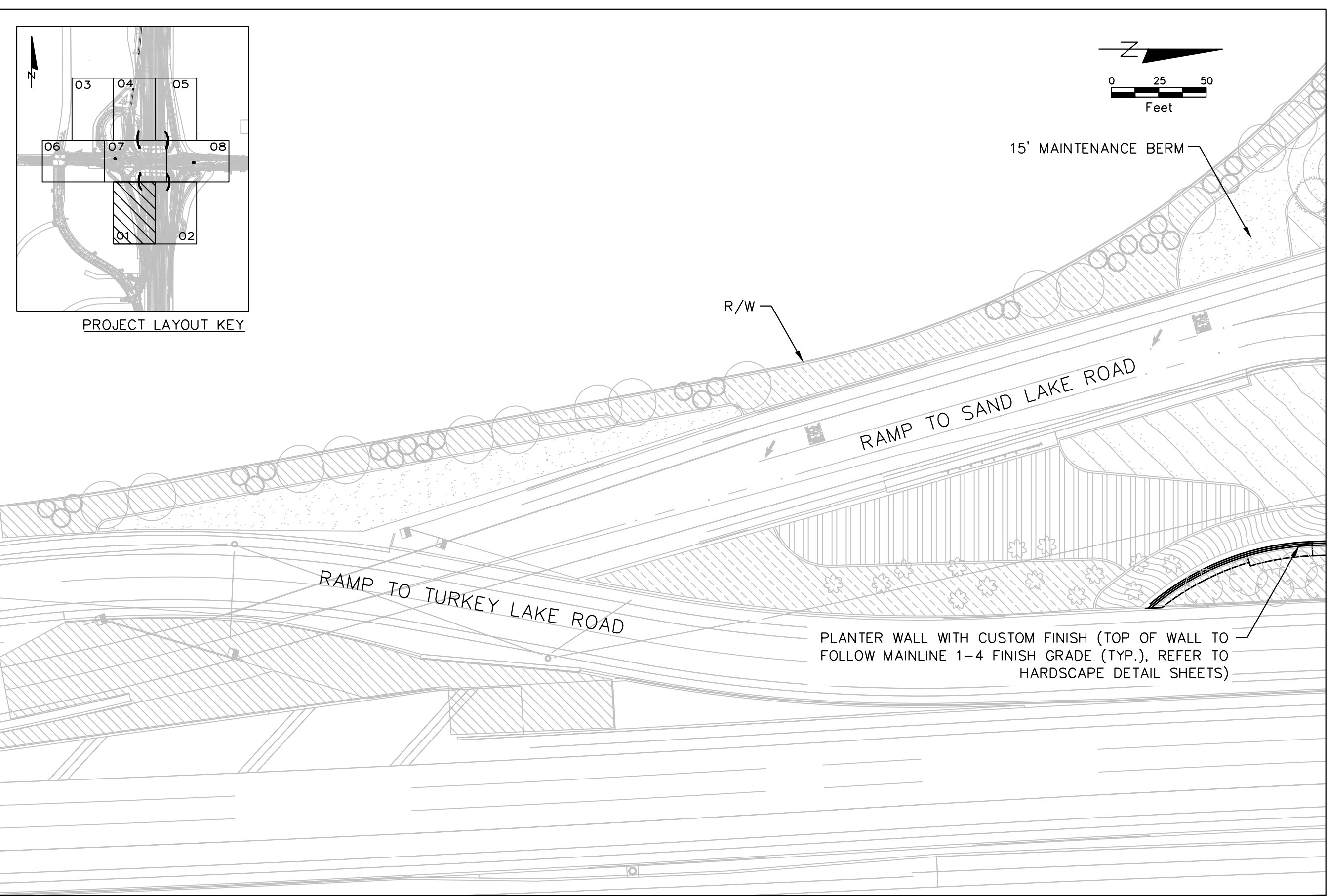
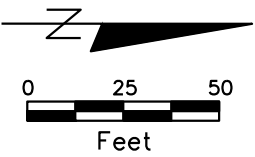
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SHEET NO.
HS.00



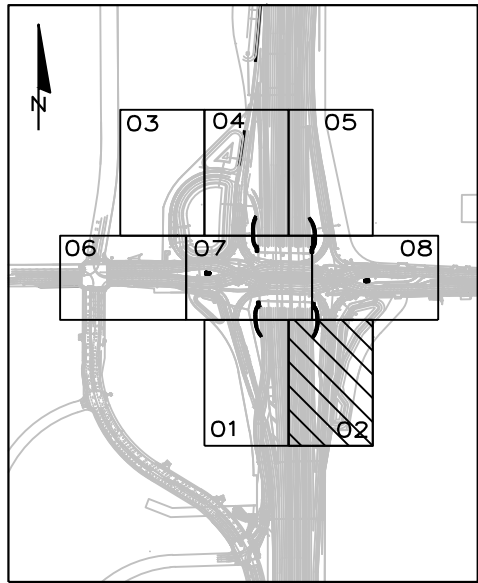
PROJECT LAYOUT KEY



MATCHLINE SHEET HS.02

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DATE	DESCRIPTION	DATE	DESCRIPTION					
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				618 South Street Suite 700 Orlando, FL 32801 407.423.8398 Certificate of Authorization: EB9951 Anne G West, P.L.A LA # 6667082	SR 400	ORANGE	444315-1-52-01	HS.01
					\$USERS\$	\$DATES\$	\$TIMES\$	\$FILES\$

HARDSCAPE PLAN

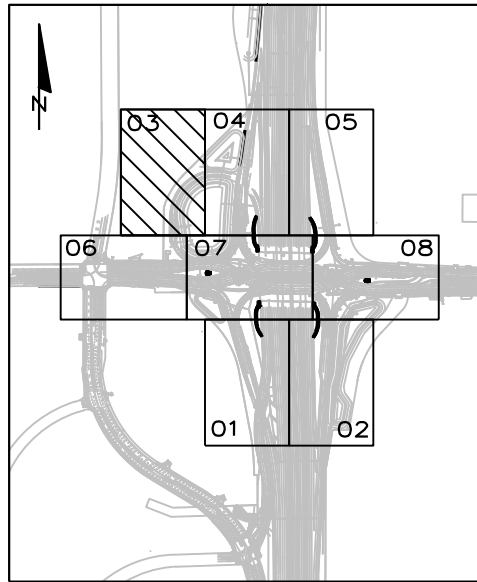


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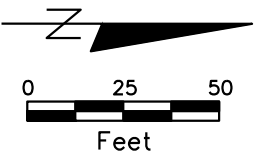


MATCHLINE SHEET HS.08

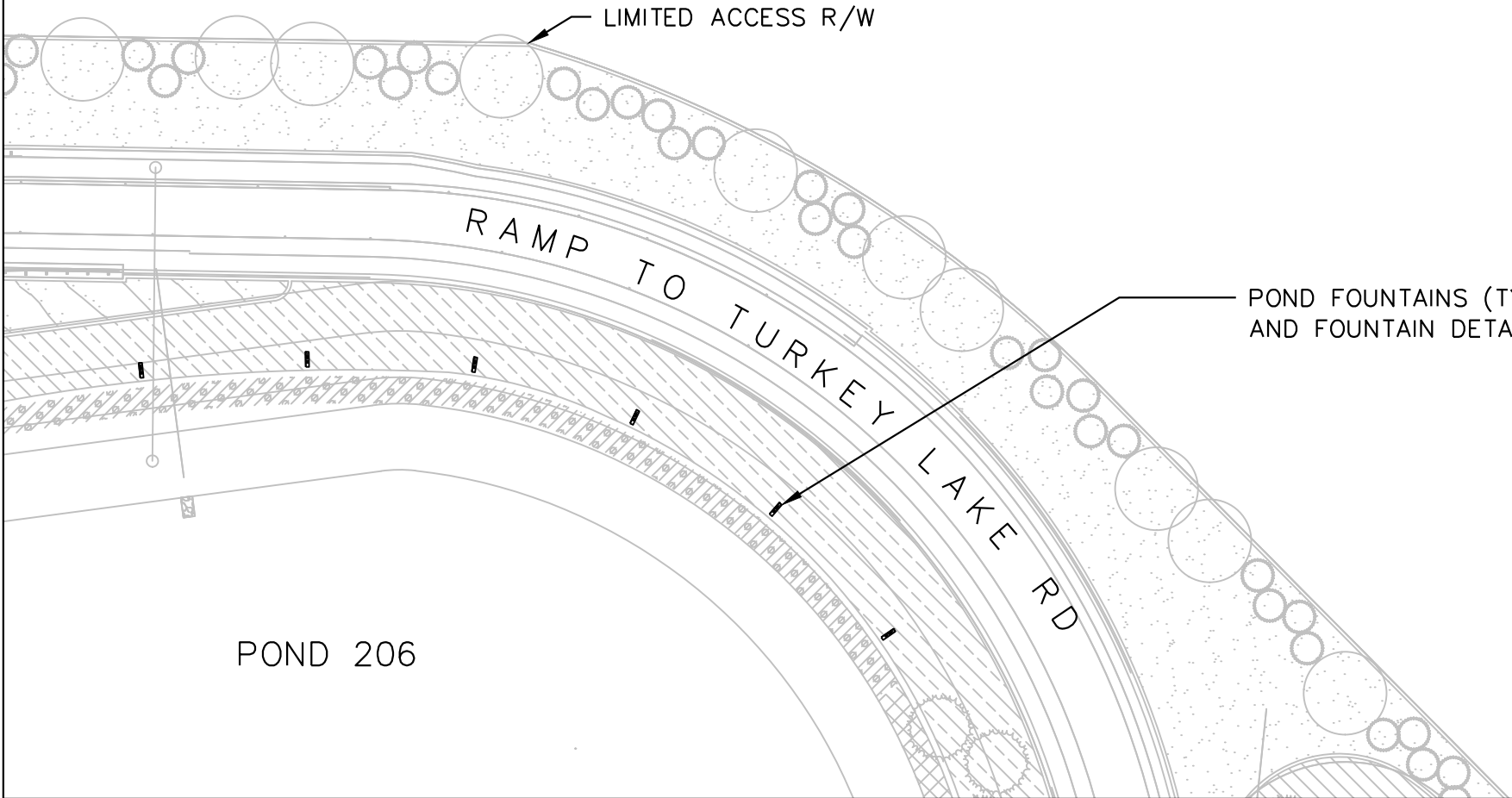
REVISIONS				PREPARED BY: COMMUNITY SOLUTIONS 618 South Street Suite 700 Orlando, FL 32801 407.423.8398 Certificate of Authorization: EB9951 Anne G West, P.L.A LA # 6667082	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			HARDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		HS.02
			DRAFT- NOT FOR CONSTRUCTION		SR 400	ORANGE	444315-1-52-01		



PROJECT LAYOUT KEY



MATCHLINE SHEET HS.06



POND FOUNTAINS (TYP, SEE FOUNTAIN LAYOUT SHEET
AND FOUNTAIN DETAIL SHEET)

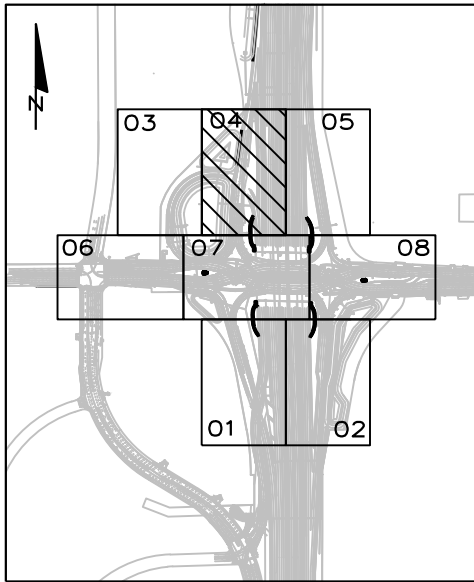
LIMITED ACCESS R/W

RAMP TO
TURKEY LAKE RD

POND 206

MATCHLINE SHEET HS.04

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		HS.03
			DRAFT- NOT FOR CONSTRUCTION		SR 400	ORANGE	444315-1-52-01		



PROJECT LAYOUT KEY

MATCHLINE SHEET HS.07



POND 206

POND 206B

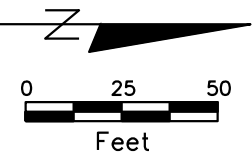
RAMP TO TURKEY LAKE RD

RAMP TO SAND LAKE ROAD

I-4 WESTBOUND

15' MAINTENANCE BERM

LIMITED ACCESS R/W

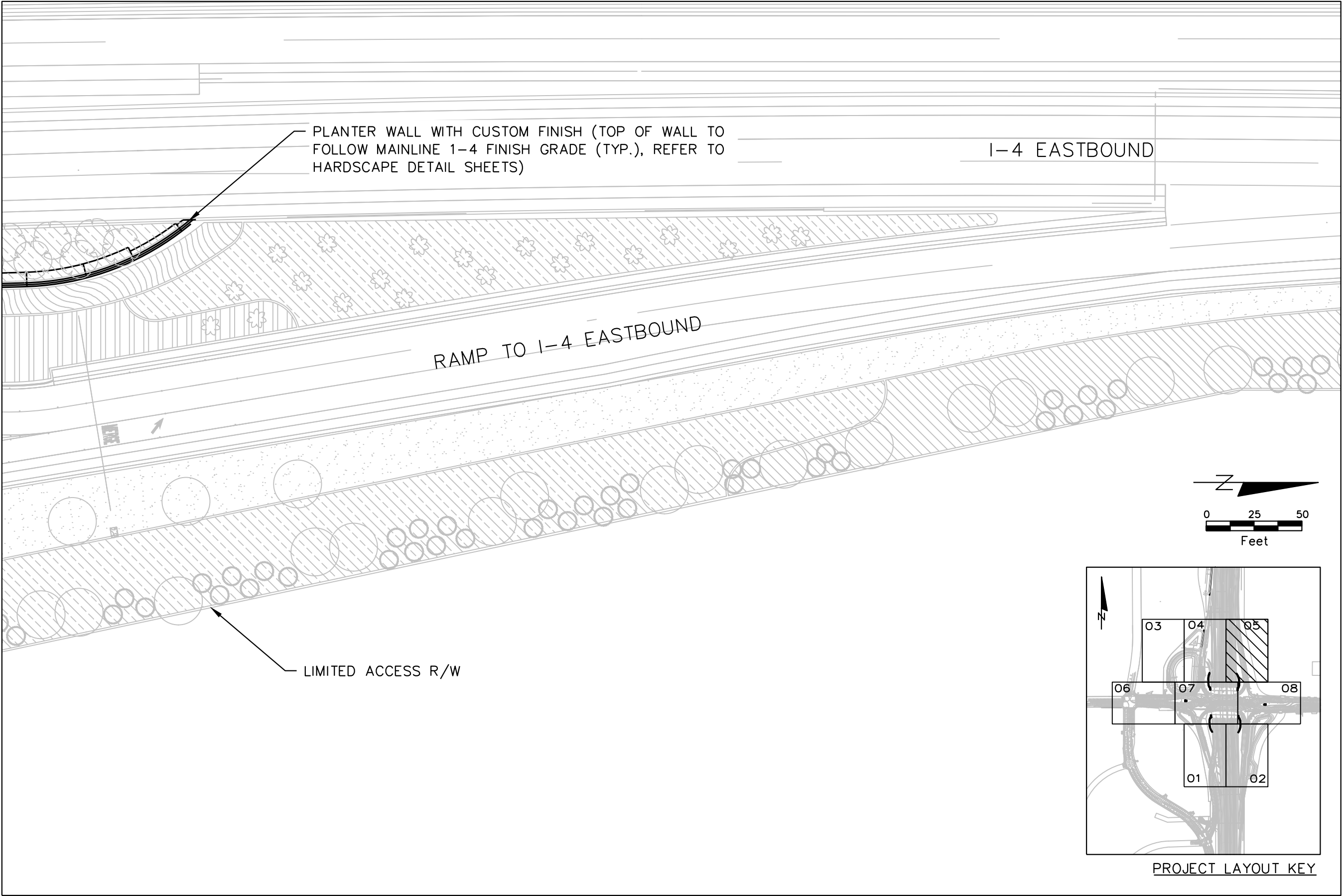


PLANTER WALL WITH CUSTOM FINISH (TOP OF WALL TO FOLLOW MAINLINE 1-4 FINISH GRADE (TYP.), REFER TO HARDSCAPE DETAIL SHEETS)

MATCHLINE SHEET HS.05

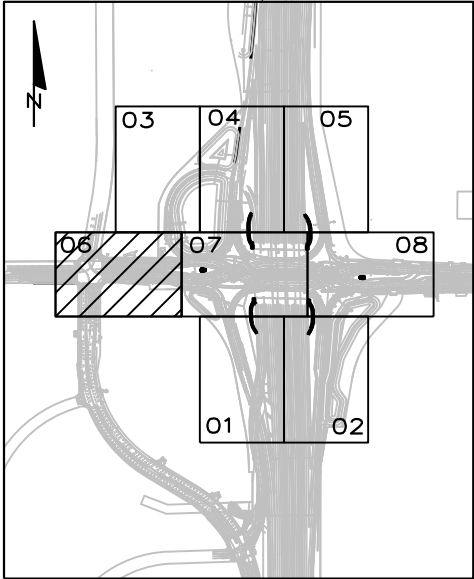
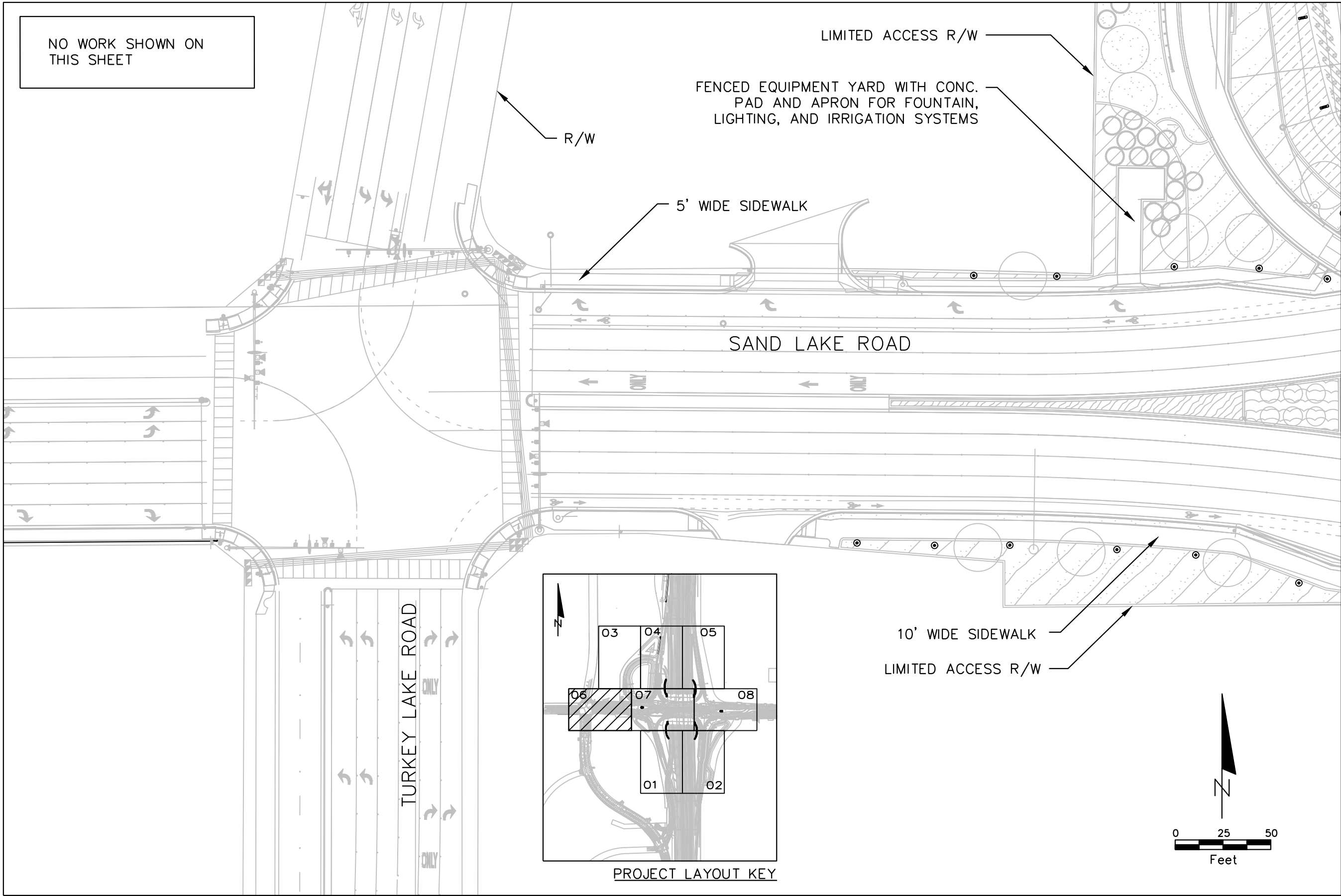
REVISIONS				PREPARED BY:  618 South Street Suite 700 Orlando, FL 32801 407.423.8398 Certificate of Authorization: EB9951 Anne G. West, P.L.A. LA # 6667082	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			HARDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			DRAFT- NOT FOR CONSTRUCTION		SR 400	ORANGE	444315-1-52-01		HS.04

MATCHLINE SHEET HS.08

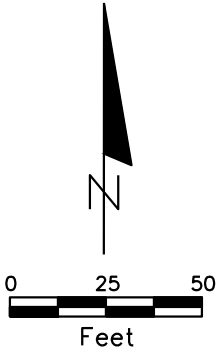


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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		HS.05
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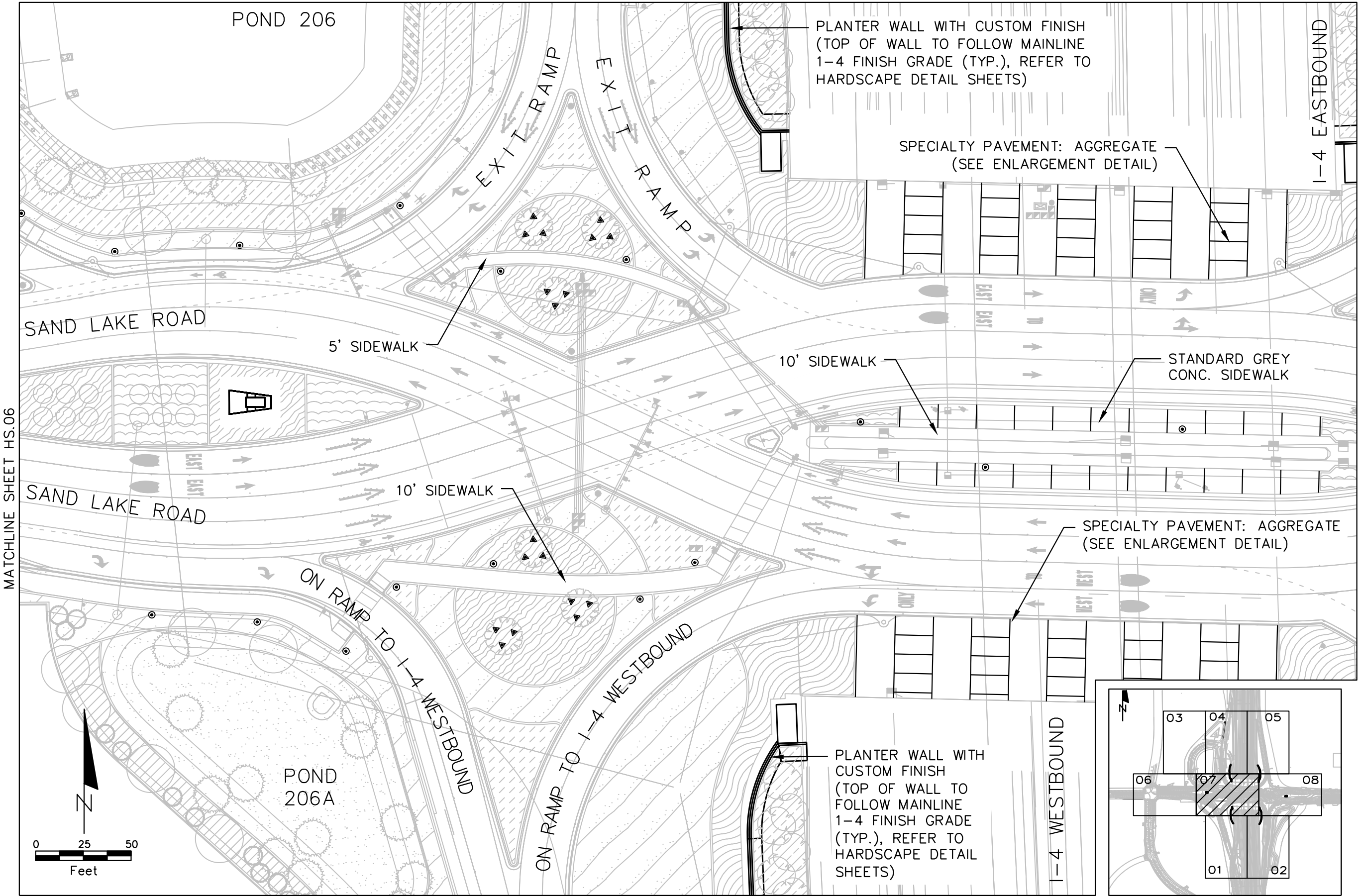
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THIS SHEET



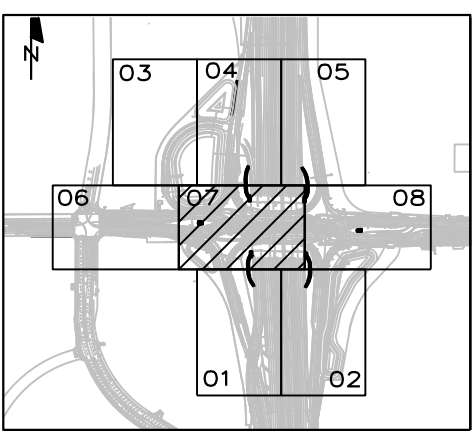
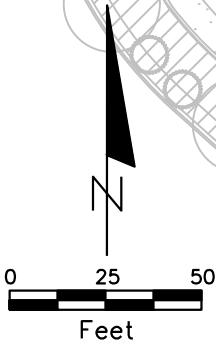
PROJECT LAYOUT KEY



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			DRAFT- NOT FOR CONSTRUCTION		SR 400	ORANGE	444315-1-52-01		HS.06



(MAINLINE I-4 BRIDGE OVER PEDESTRIAN AREA NOT SHOWN FOR CLARITY)
MATCHLINE SHEET HS.08

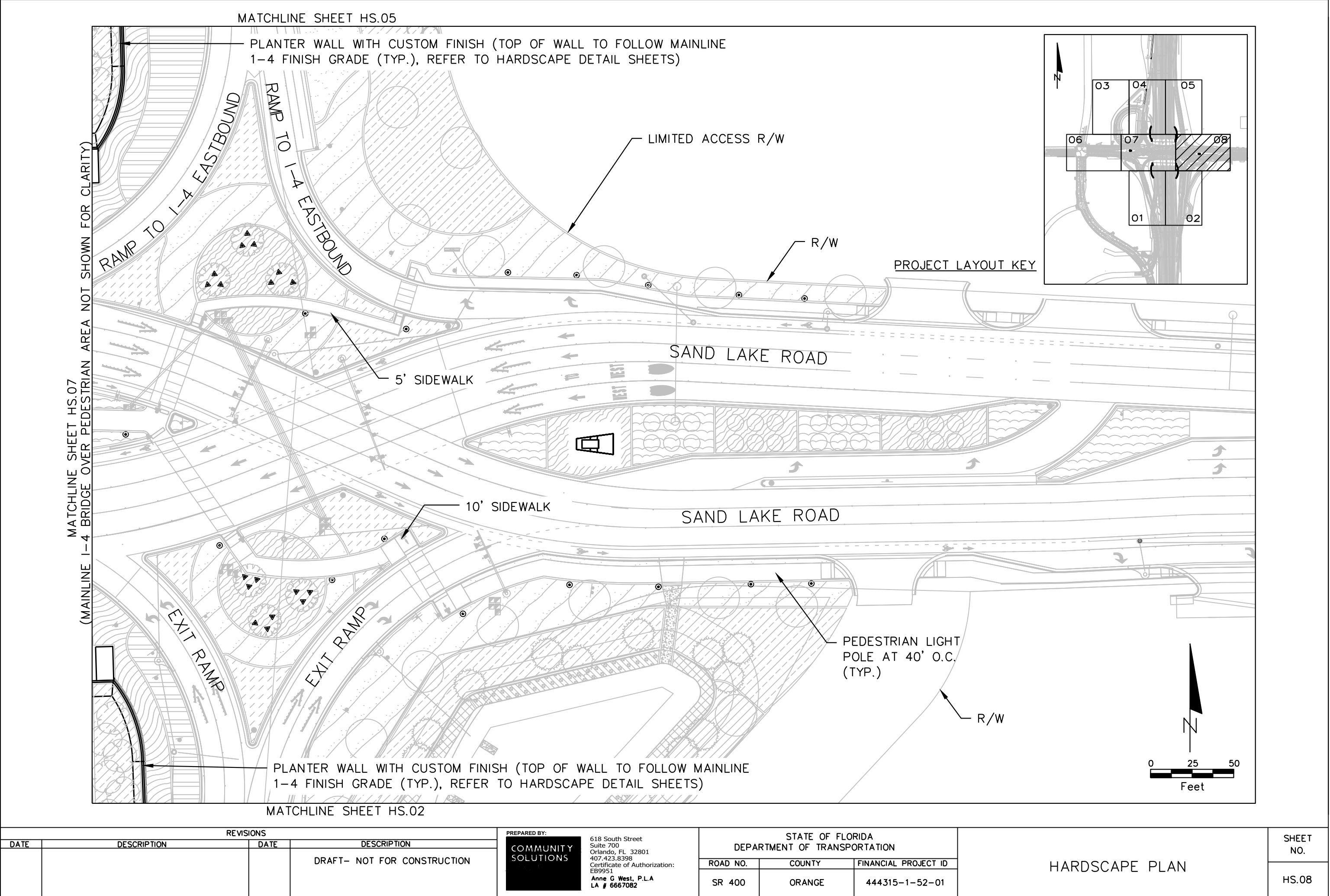


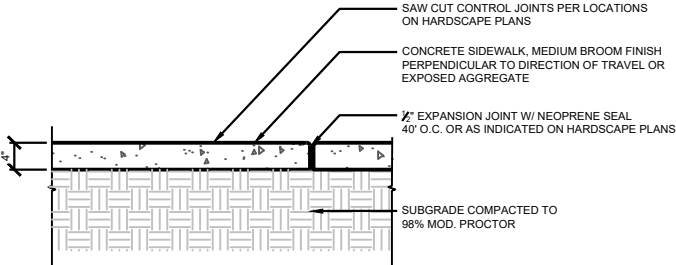
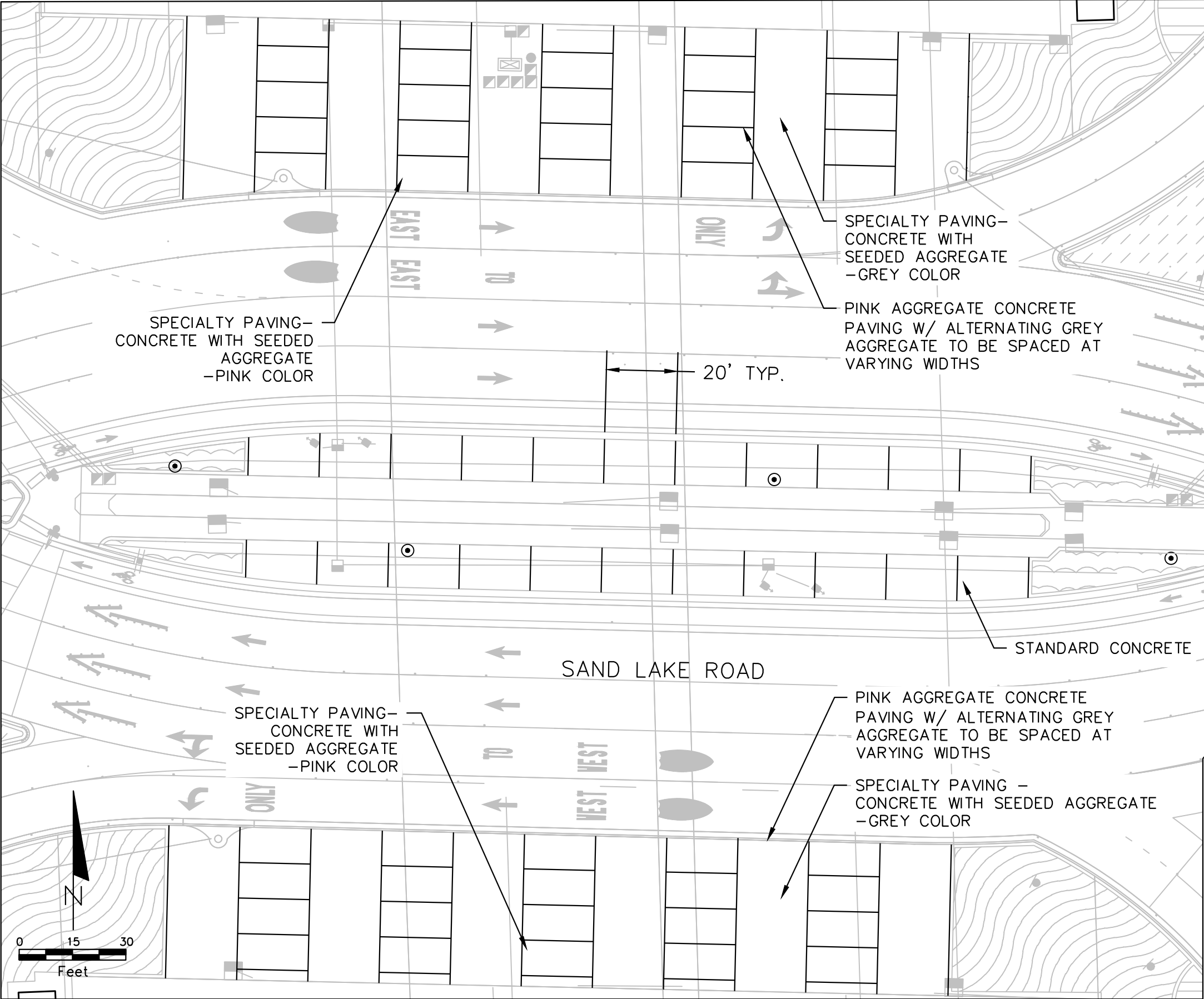
MATCHLINE SHEET HS.01

MATCHLINE SHEET LI.02

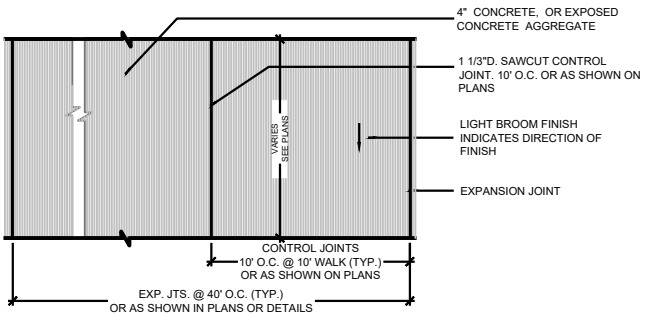
PROJECT LAYOUT KEY

REVISIONS				PREPARED BY: COMMUNITY SOLUTIONS	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			HARDSCAPE PLAN			SHEET NO. HS.07
DATE	DESCRIPTION	DATE	DESCRIPTION								
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					SR 400	ORANGE	444315-1-52-01				





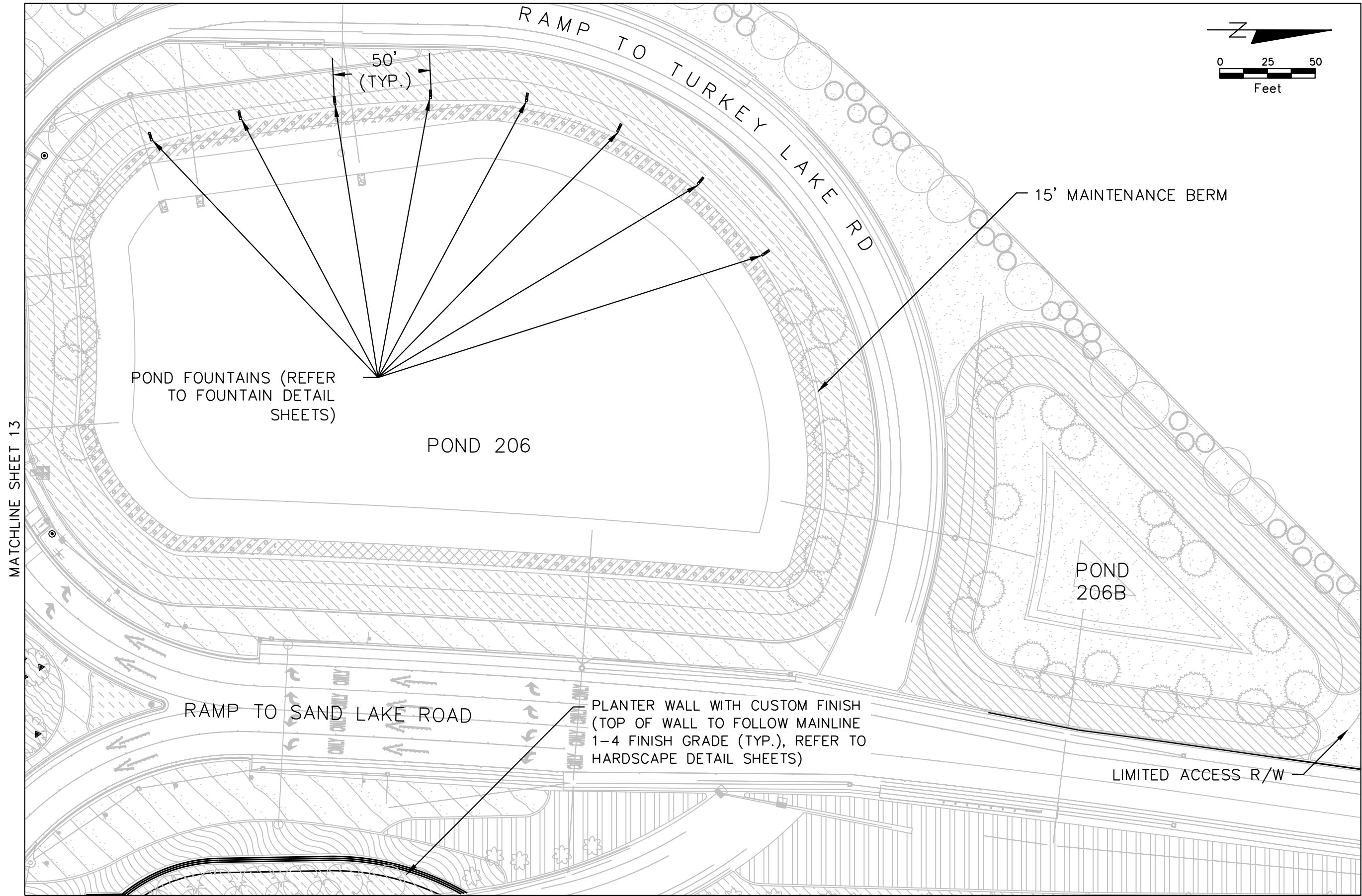
NOTES:
1. ALL RAMPS ARE REQUIRED TO CONFORM TO ALL ADA STANDARDS REGARDING SLOPE, WIDTH, DETECTABLE WARNING STRIP, ETC.
2. CONCRETE TO BE 3000 PSI, MIN.



CONCRETE PAVEMENT JOINTS LAYOUT - TYP, NTS
FILE NAME: CSG Detail - Concrete Sidewalk.dwg

NOTES:
1. Contractor shall execute up to three (3) 5'x5' mock-up panels for review by the Owner and Landscape Architect. If initial mock-ups are unsuccessful, additional mock-ups will be required until a successful solution is confirmed.
2. Mock-ups shall include all materials and processes necessary to achieve the desired finish. Materials include the concrete, surface aggregate, top-surface retarder, and sealant (if applicable).
3. Contractor shall document the varying levels of aggregate and top-surface retarder materials used for each mock-up, so the formula can be replicated on the project once a mock-up is approved.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			DRAFT- NOT FOR CONSTRUCTION		SR 400	ORANGE	444315-1-52-01		HS.09



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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		HS.10
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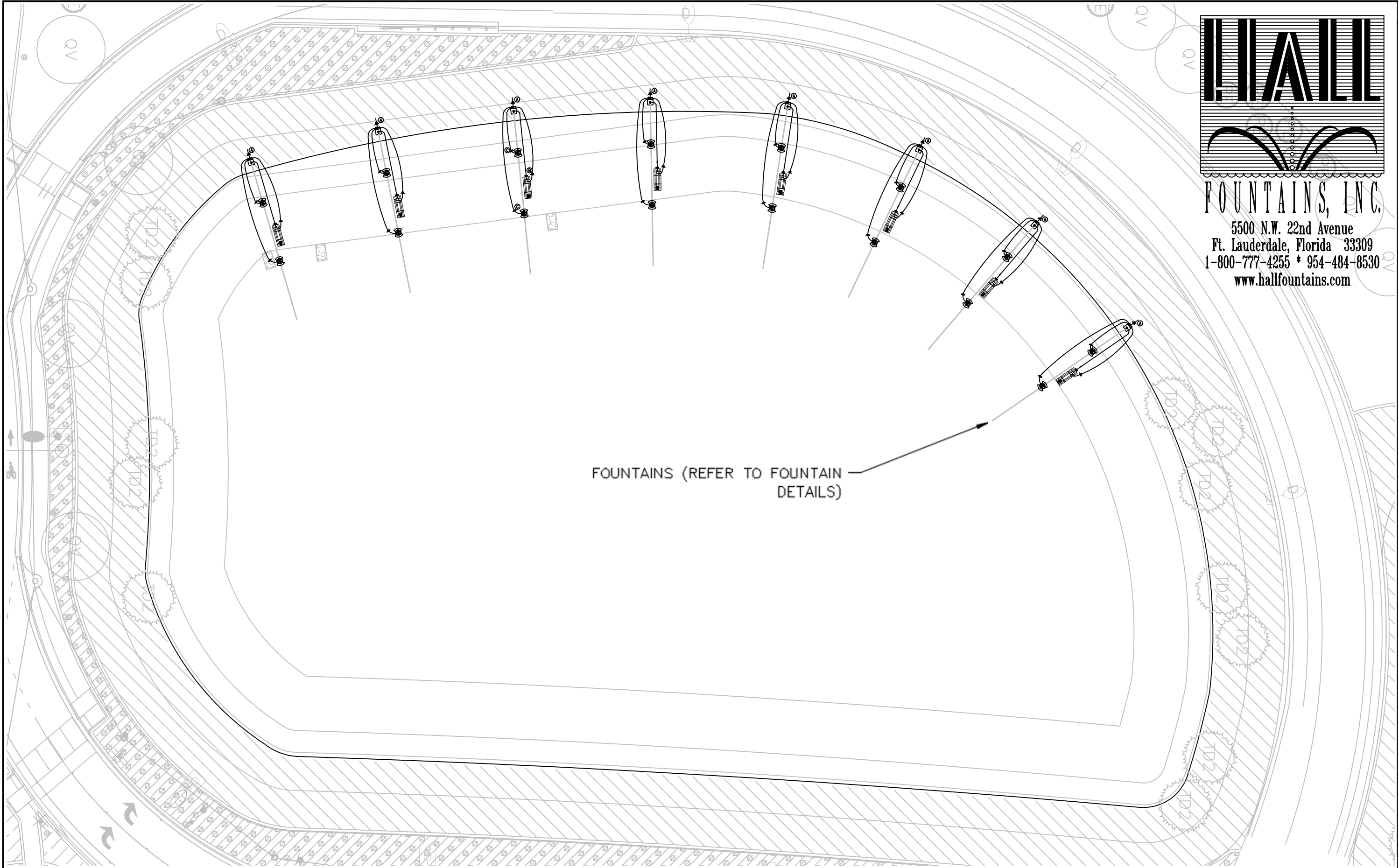


1 PLANTER WALL – PERSPECTIVE VIEW
N.T.S.



2 MSE PLANTER WALL – COMP. IMAGE
N.T.S.

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			DRAFT- NOT FOR CONSTRUCTION		SR 400	ORANGE	444315-1-52-01		HS.11

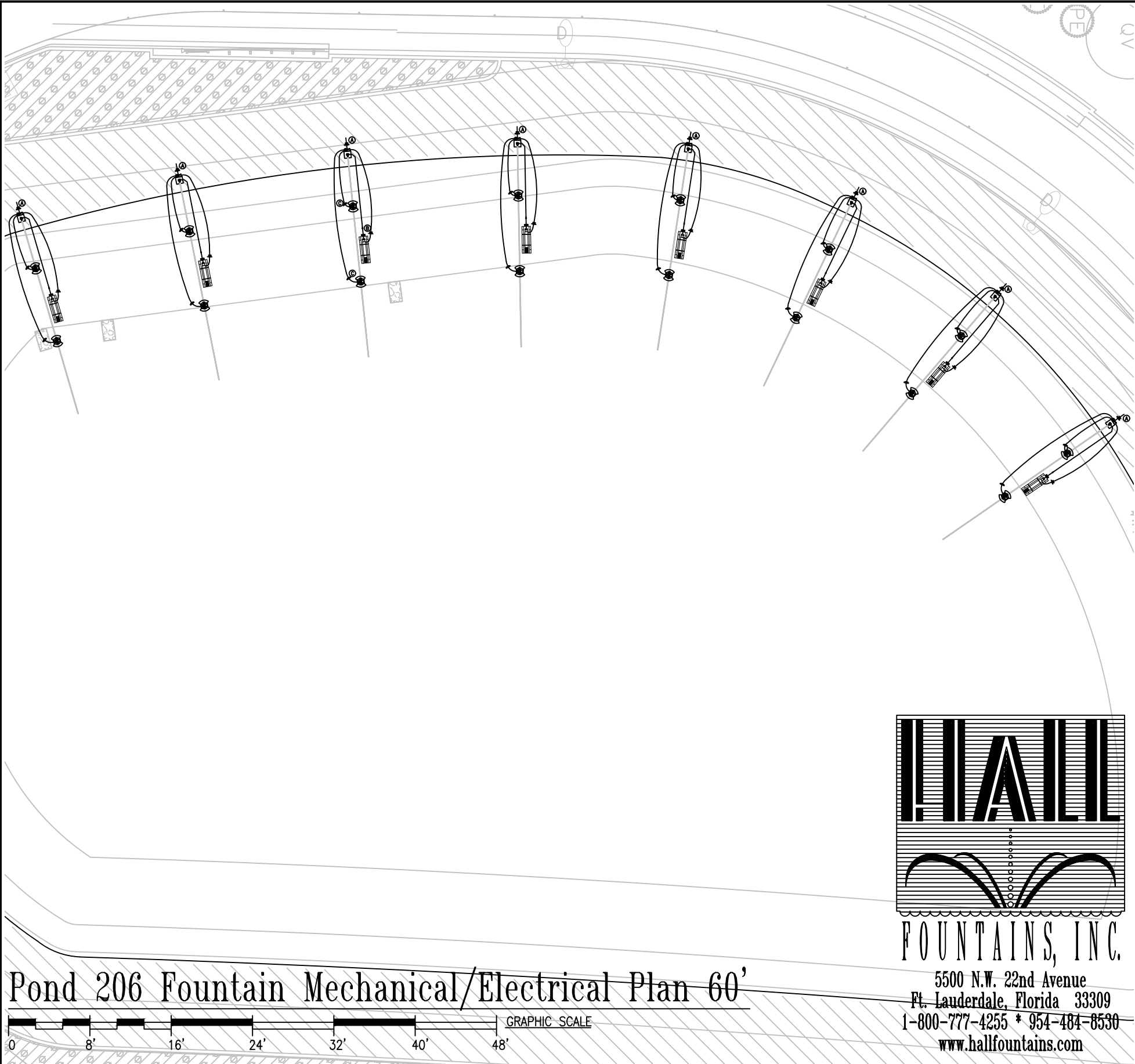


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DETAILS)

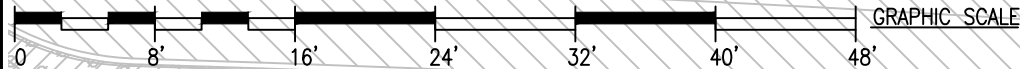
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					ROAD NO.	COUNTY			FN.01
					SR 400	ORANGE			



Equipment by Hall

ITEM	QTY	DESCRIPTION
1	8	JS1500 ADJUSTABLE MACHINED BRONZE SMOOTH BORE JET – features 1-1/2” discharge and 5” flanged inlet with swivel joint. Includes flanged angled SS pour riser.
2	8	10 HP SKID MOUNT SUNMERSIBLE TURBINE PUMP – features cast iron pump head, 10 HP 208 volt three phase 60 Hz. stainless steel motor mounted in 10” PVC suction tube with stainless steel intake screen. Pump is mounted on skid with stainless steel framework. Unit has 6” PVC slip discharge with flex-fitting. Unit is supplied with 100 feet of 6/4 submersible cable to run to controller.
3	8	PUMP SUCTION TUBE AND INTAKE SCREEN – tube is fabricated from 10” schedule 40 PVC pipe, with stainless steel pump support spider. Intake screen is fabricated from perforated stainless steel sheet rolled to fit the tube.
4	8	FEATURE DISCHARGE MANIFOLD – with all valves and fittings shown on drawing. Manifold comes with bolts, nuts, and gaskets ready for PVC piping.
5	8	100’ LENGTH OF 6/4 TYPE ST/SO SUBMERSIBLE POWER CABLE for the submersible pump power supply. Cable features 600 volt insulation and soft annealed copper, and is sized according to National Electric Code section 70-258.
6	32	SL65-LED UL LISTED CAST BRONZE SUBMERSIBLE LED LIGHT – free-standing fixture with thermal protection, swivel base, machined surface with lens clearance for even gasket compression, 4” acrylic clear lens, neoprene gaskets, bronze cord seal, class 2 LED driver and stainless steel fastenings. Includes 58W., 120V. 4000K LED, with 10’ 16/3 type ST cord. Cord entry is encapsulated in epoxy to prevent the entrance of moisture. Air tested, and assembled ready for installation.
7	16	FF4 FLOAT ASSEMBLY – includes two roto-cast molded polyethylene sections each with threaded brass inserts, stainless steel hardware and ballast fill plugs. Assembly is 10” high, 48” outside dia. and 32” inside dia.
8	16	JB1S UL LISTED CAST BRONZE UNDERWATER JUNCTION BOX – features neoprene lid gasket, stainless steel fastenings, four threaded side openings with cord seals and neoprene grommets (for 16/3 type ST cord), delrin plugs (for unused openings), and a FPT bottom for cord seal entrance. Box has lights, cord seal and lighting power cable installed, tested and potted with paraffin as per UL and section 680 of the National Electrical Code.
9	16	CS2 WATERTIGHT CORD SEAL – 3/4” MPT, UL listed seal designed for use with type ST-WA cord used in HALL ”JB series” junction boxes listed above.
10	16	100’ LENGTH OF 12/3 TYPE ST/SO-WA SUBMERSIBLE POWER CABLE – for the fountain lighting power supply. Cable features 600 volt insulation and soft annealed copper. Sized according to the National Electric Code section 70-258.
11	8	FOUNTAIN CONTROLLER – with a main disconnect and door handle, a three phase full-voltage starter, with overload protection, contactors, timers, circuit breakers (standard or GFI), and other controls, pre-wired to a terminal bar through pan-duct wiring trough and mounted on a removable backing plate in a NEMA Type 3R enclosure. Power is supplied from a remote breaker panel (by others).

Pond 206 Fountain Mechanical/Electrical Plan 60'

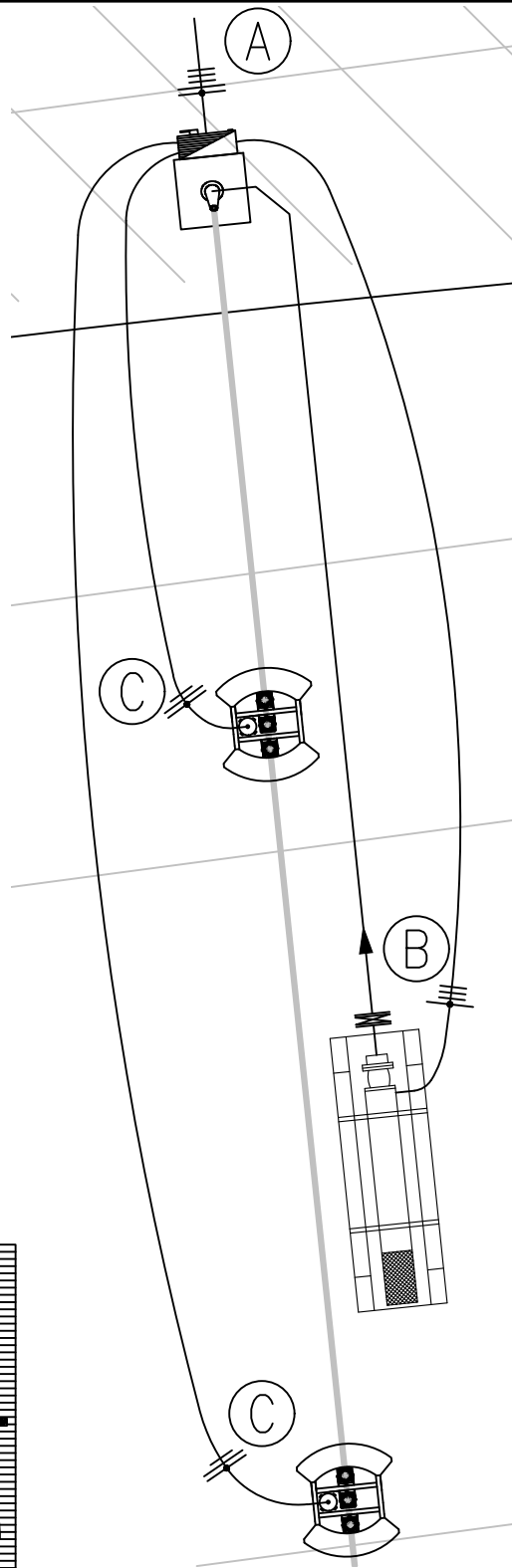


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				PREPARED BY: COMMUNITY SOLUTIONS GROUP 618 South Street Suite 700 Orlando, FL 32801 407.423.8398 Certificate of Authorization: EB9951 Anne G West, P.L.A LA # 6667082	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			FOUNTAIN PLAN		SHEET NO. FN.02
					ROAD NO. SR 400	COUNTY ORANGE				
					\$USER\$	\$DATE\$	\$TIME\$	\$FILE\$		



FOUNTAINS, INC.
5500 N.W. 22nd Avenue
Ft. Lauderdale, Florida 33309
1-800-777-4255 * 954-484-8530
www.hallfountains.com



ELECTRICAL LEGEND

	CONDUIT: 115 VAC, 208 VAC OR 230 VAC, 1PH, 3W
	CONDUIT: 208-230/460 VAC, 3W OR 4W
	CONDUIT: LOW VOLTAGE SENSOR OR CONTROL
	VOLTAGE CONDUCTOR (SHORT STROKE)
	NEUTRAL CONDUCTOR (LONG STROKE)
	GROUNDING CONDUCTOR (LONG STROKE WITH DOT)
	SOLENOID VALVE

CONDUIT LEGEND

- (A) PROVIDE A 70A, 120/208 VAC, 3PH, 4W ELECTRICAL SERVICE TO CONTROLLER (X8)
(B) 100' 6/4 SUBMERSIBLE CABLE, 70A 208VAC, 3PH FEATURE PUMP "P1" (X8)
(C) 100' 12/3 SUBMERSIBLE CABLE, 20A, 120 VAC, GFCI LIGHTING "LTx" (X16)

Equipment by Hall

ITEM	QTY	DESCRIPTION
1	8	JS1500 ADJUSTABLE MACHINED BRONZE SMOOTH BORE JET - features 1-1/2" discharge and 5" flanged inlet with swivel joint. Includes flanged angled SS pour riser.
2	8	10 HP SKID MOUNT SUNMERSIBLE TURBINE PUMP - features cast iron pump head, 10 HP 208 volt three phase 60 Hz. stainless steel motor mounted in 10" PVC suction tube with stainless steel intake screen. Pump is mounted on skid with with stainless steel framework. Unit has 6" PVC slip discharge with flex-fitting. Unit is supplied with 100 feet of 6/4 submersible cable to run to controller.
3	8	PUMP SUCTION TUBE AND INTAKE SCREEN - tube is fabricated from 10" schedule 40 PVC pipe, with stainless steel pump support spider. Intake screen is fabricated from perforated stainless steel sheet rolled to fit the tube.
4	8	FEATURE DISCHARGE MANIFOLD - with all valves and fittings shown on drawing. Manifold comes with bolts, nuts, and gaskets ready for PVC piping.
5	8	100' LENGTH OF 6/4 TYPE ST/SO SUBMERSIBLE POWER CABLE for the submersible pump power supply. Cable features 600 volt insulation and soft annealed copper, and is sized according to National Electric Code section 70-258.
6	32	SL65-LED UL LISTED CAST BRONZE SUBMERSIBLE LED LIGHT - free-standing fixture with thermal protection, swivel base, machined surface with lens clearance for even gasket compression, 4" acrylic clear lens, neoprene gaskets, bronze cord seal, class 2 LED driver and stainless steel fastenings. Includes 58W., 120V. 4000K LED, with 10' 16/3 type ST cord. Cord entry is encapsulated in epoxy to prevent the entrance of moisture. Air tested, and assembled ready for installation.
7	16	FF4 FLOAT ASSEMBLY - includes two roto-cast molded polyethylene sections each with threaded brass inserts, stainless steel hardware and ballast fill plugs. Assembly is 10" high, 48" outside dia. and 32" inside dia.
8	16	JB1S UL LISTED CAST BRONZE UNDERWATER JUNCTION BOX - features neoprene lid gasket, stainless steel fastenings, four threaded side openings with cord seals and neoprene grommets (for 16/3 type ST cord), delrin plugs (for unused openings), and a FPT bottom for cord seal entrance. Box has lights, cord seal and lighting power cable installed, tested and potted with paraffin as per UL and section 680 of the National Electrical Code.
9	16	CS2 WATERTIGHT CORD SEAL - 3/4" MPT, UL listed seal designed for use with type ST-WA cord used in HALL "JB series" junction boxes listed above.
10	16	100' LENGTH OF 12/3 TYPE ST/SO-WA SUBMERSIBLE POWER CABLE - for the fountain lighting power supply. Cable features 600 volt insulation and soft annealed copper. Sized according to the National Electric Code section 70-258.
11	8	FOUNTAIN CONTROLLER - with a main disconnect and door handle, a three phase full-voltage starter, with overload protection, contactors, timers, circuit breakers (standard or GFI), and other controls, pre-wired to a terminal bar through pan-duct wiring trough and mounted on a removable backing plate in a NEMA Type 3R enclosure. Power is supplied from a remote breaker panel (by others).

PREPARED BY:

COMMUNITY SOLUTIONS GROUP

618 South Street
Suite 700
Orlando, FL 32801
407.423.8398
Certificate of Authorization:
EB9951
Anne G West, P.L.A
LA # 6667082

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.

COUNTY

SR 400

ORANGE

\$USER\$

\$DATE\$

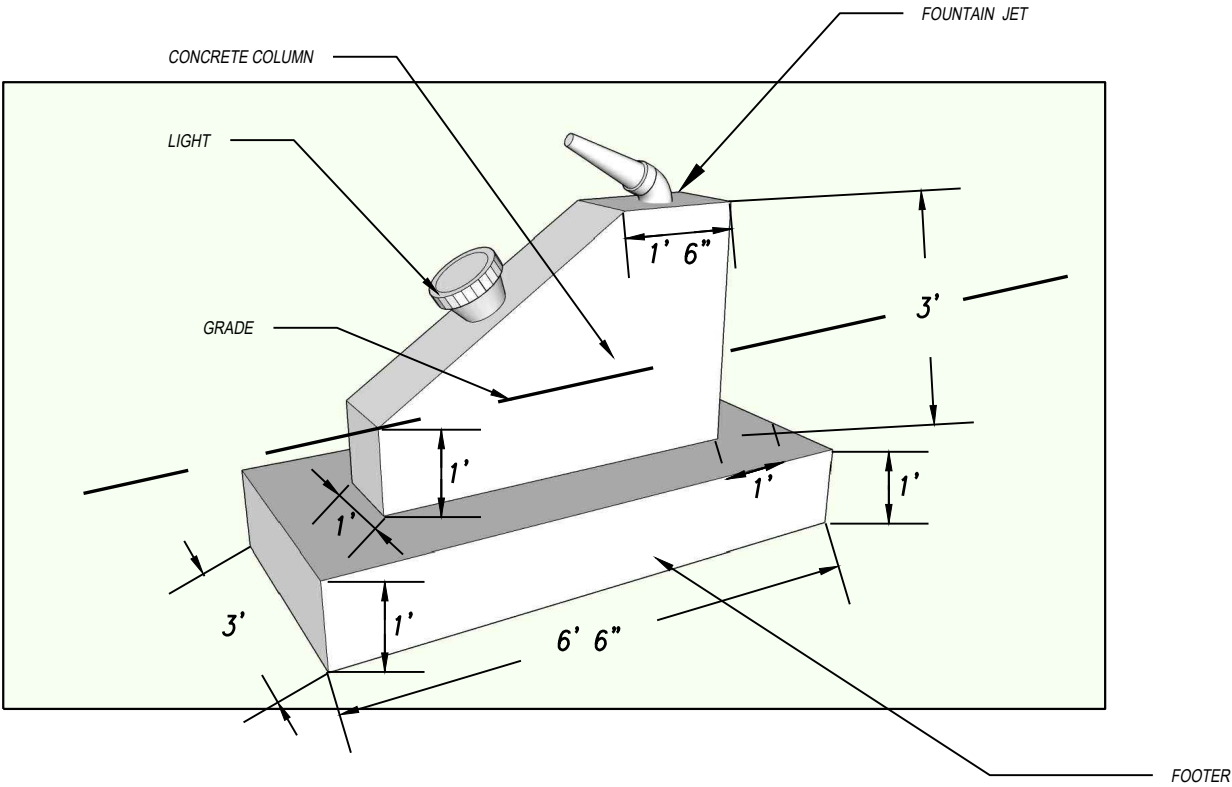
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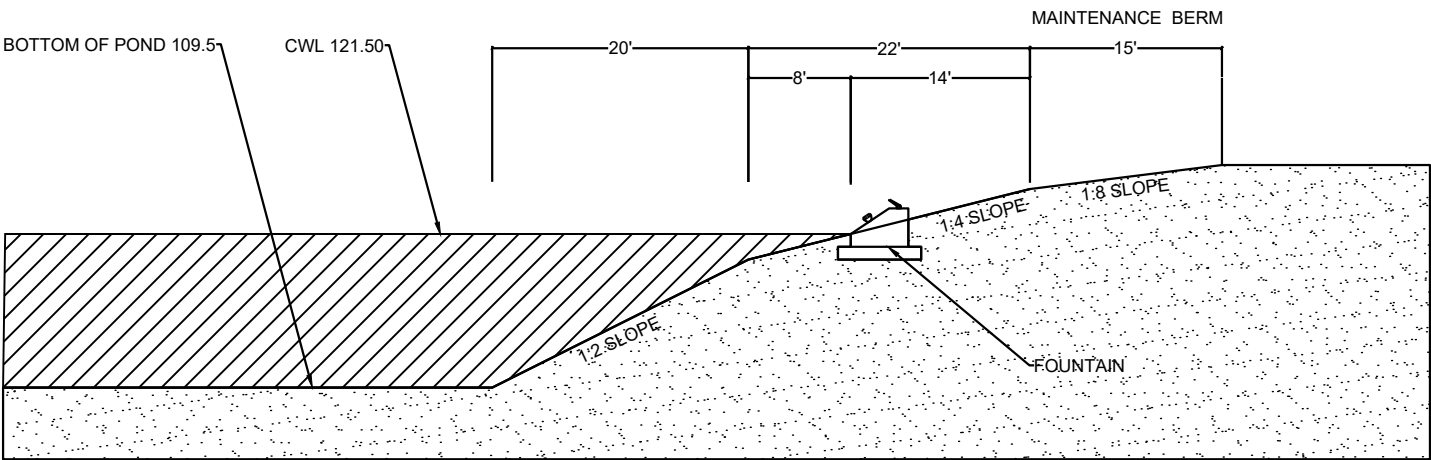
FOUNTAIN DETAILS

SHEET NO.

FN.03



1 FOUNTAIN DETAIL
N.T.S.



2 SECTION AT FOUNTAIN
N.T.S.

REVISIONS				PREPARED BY: COMMUNITY SOLUTIONS 618 South Street Suite 700 Orlando, FL 32801 407.423.8398 Certificate of Authorization: EB9951 Anne G West, P.L.A LA # 6667082	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			HARDSCAPE DETAILS FOUNTAIN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		FN.04
			DRAFT- NOT FOR CONSTRUCTION		SR 400	ORANGE	444315-1-52-01		

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING:
- FLORIDA BUILDING CODE (FBC) 2023 8TH EDITION

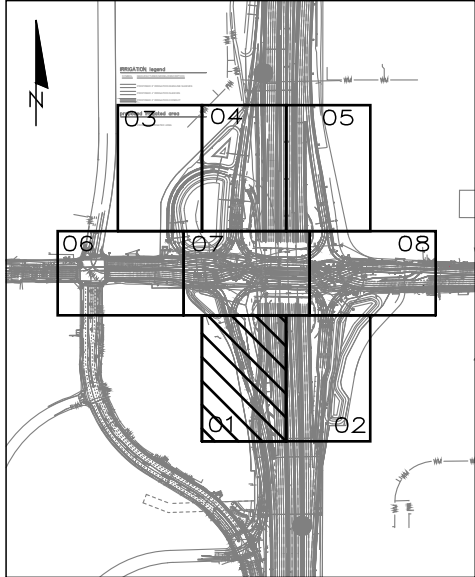
• FLORIDA ENERGY CONSERVATION CODE (FECC) 2023 8TH EDITION

• NFPA 70 NATIONAL ELECTRIC CODE (NEC) 2020
2. IN ANY CASE WHERE TWO CODES DIFFER ON THE SAME TOPIC, THE MORE STRINGENT OF THE TWO SHALL BE APPLIED.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY MATERIALS AND LABOR TO PROVIDE A COMPLETE, OPERATIONAL SYSTEM.
4. CONTRACTOR SHALL VISIT THE EXISTING FACILITY AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.
5. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND CORRECT AS REQUIRED, TO MEET ALL THE CODES, REGULATIONS, AND DISCREPANCIES BETWEEN EXISTING WORK SHOWN ON DRAWINGS AND WHAT IS INSTALLED ON SITE.
6. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING DIMENSIONS PRIOR TO ORDERING MATERIALS AND INSTALLING EQUIPMENT. THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF MECHANICAL AND ELECTRICAL SYSTEMS AND OTHER WORK. MAKE REASONABLE MODIFICATIONS IN LAYOUT AND COMPONENTS TO PREVENT CONFLICT WITH WORK OF OTHER TRADES. SIGNIFICANT MODIFICATIONS IN LAYOUT AND COMPONENTS SHALL RECEIVE PRIOR REVIEW BY A/E. SUCH MODIFICATIONS SHALL NOT BE GROUNDS FOR ADDITIONAL COMPENSATION TO CONTRACTOR.
8. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE LISTED BY AN APPROVED THIRD-PARTY TESTING AGENCY.
9. CONDUIT RUNS SHOWN ARE SCHEMATIC AND DO NOT INDICATE THE NECESSARY FITTINGS AND JUNCTION BOXES THAT ARE INCLUDED IN THE SCOPE OF THE WORK.

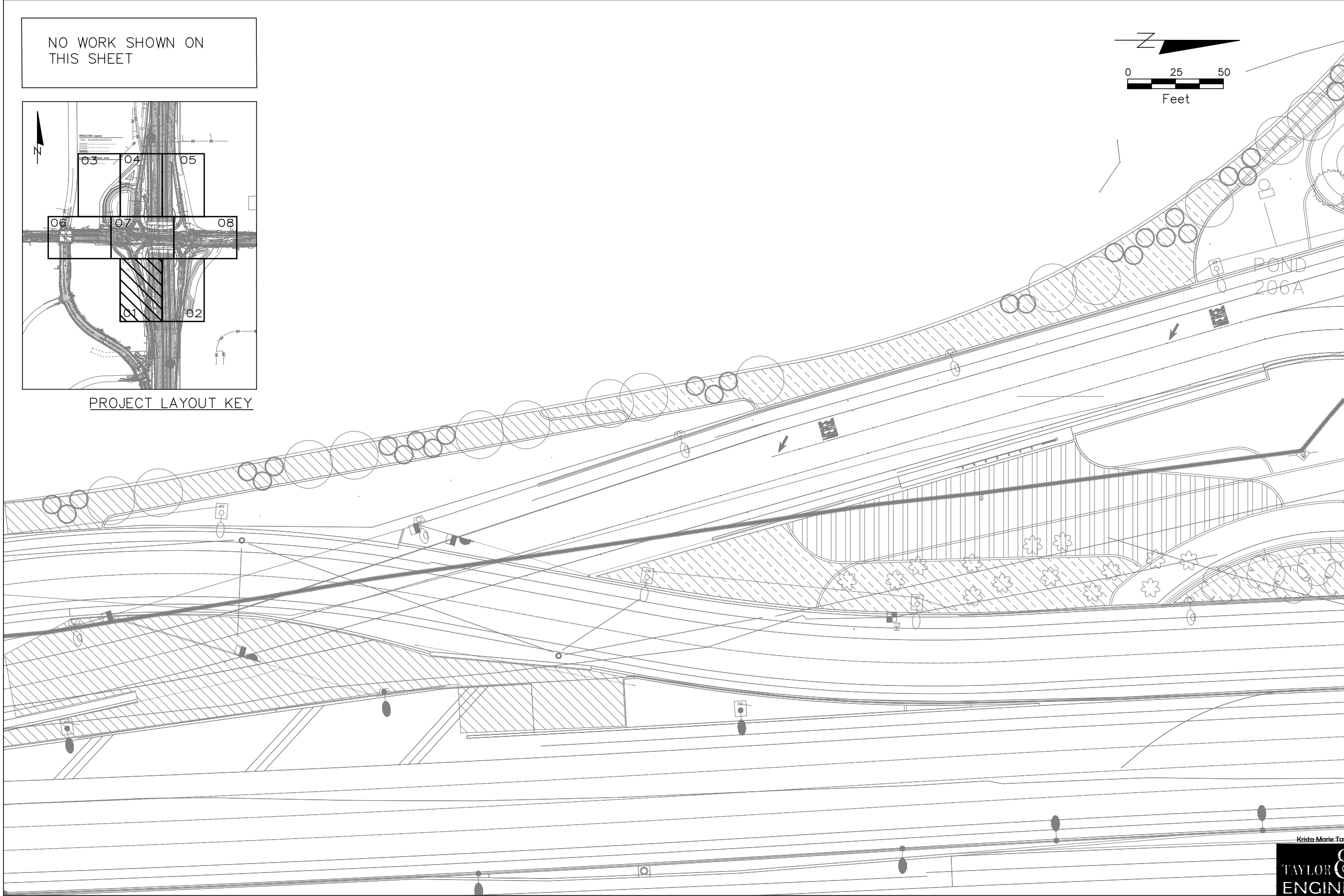
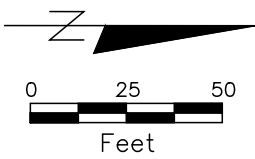
DRAWING INDEX

SHEET #	SHEET NAME	SUBMITTAL	DATE
EL.00	ELECTRICAL SHEET INDEX	SD	8/21/2024
EL.01	NO WORK, PLAN SHOWN FOR REFERENCE	SD	8/21/2024
EL.02	NO WORK, PLAN SHOWN FOR REFERENCE	SD	8/21/2024
EL.03	FOUNTAIN LAYOUT	SD	8/21/2024
EL.04	NO WORK, PLAN SHOWN FOR REFERENCE	SD	8/21/2024
EL.05	NO WORK, PLAN SHOWN FOR REFERENCE	SD	8/21/2024
EL.06	FOUNTAIN AND LIGHTING LAYOUT	SD	8/21/2024
EL.07	LIGHTING LAYOUT	SD	8/21/2024
EL.08	LIGHTING LAYOUT	SD	8/21/2024
EL.09	LIGHTING DETAIL	SD	8/21/2024
EL.10	LIGHTING DETAIL	SD	8/21/2024
EL.11	ELECTRICAL SCHEDULES	SD	8/21/2024
EL.12	RISER DIAGRAM	SD	8/21/2024
EL.13	RISER DIAGRAM	SD	8/21/2024
EL.14	PANEL SCHEDULE	SD	8/21/2024
EL.15	PANEL SCHEDULE	SD	8/21/2024
EL.16	ELECTRICAL DETAILS	SD	8/21/2024
EL.17	ELECTRICAL DETAILS	SD	8/21/2024

NO WORK SHOWN ON THIS SHEET



PROJECT LAYOUT KEY



MATCHLINE SHEET EL.07

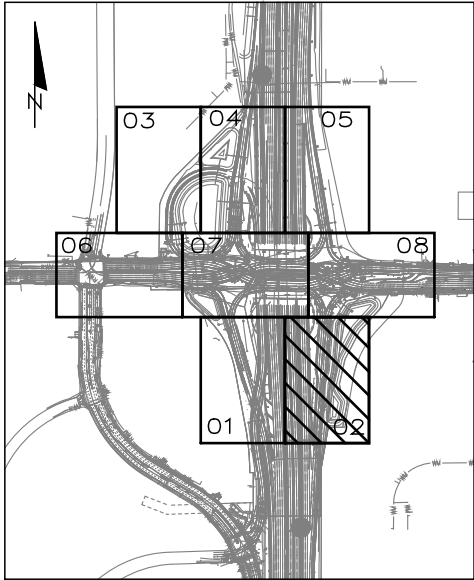
MATCHLINE SHEET EL.02

Krista Marie Taylor, P.E. #93024

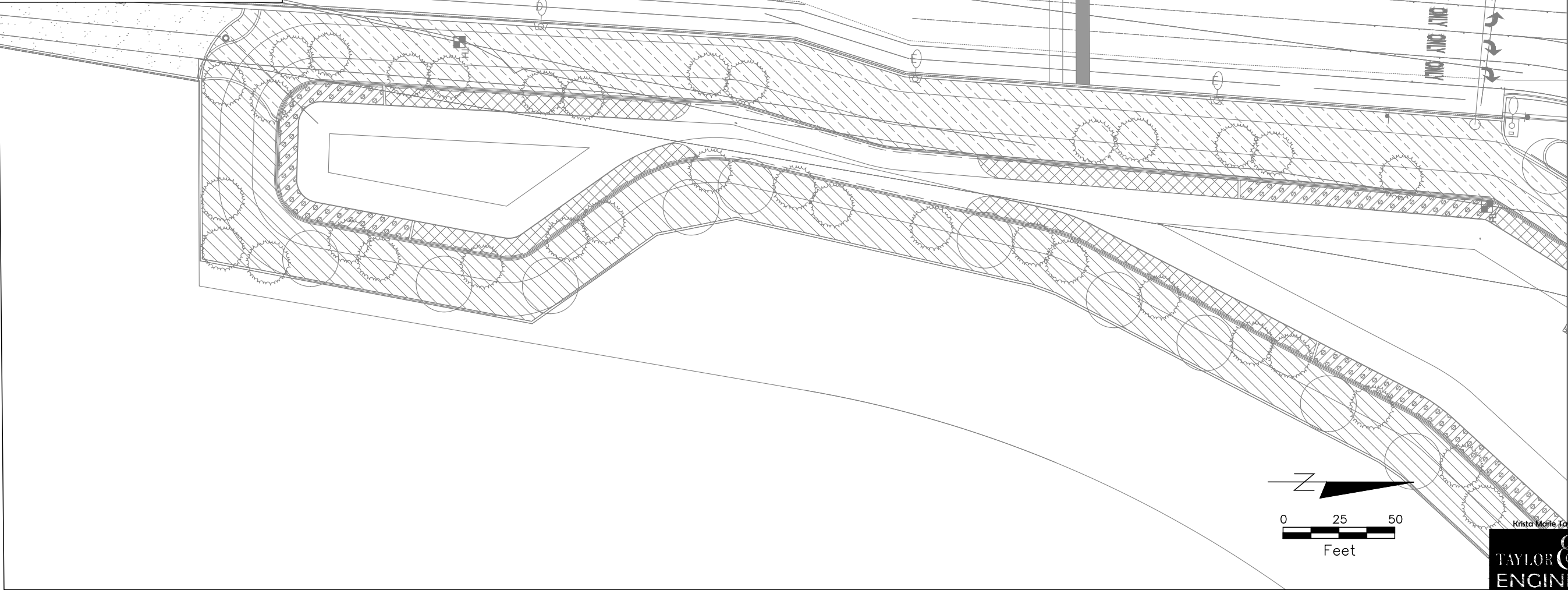
TAYLOR & TAYLOR
ENGINEERING
3664 ROLLING HILLS LANE, APOPKA, FL 32712
407-703-3444 - www.TaylorAndTaylor.net

REVISIONS				PREPARED BY: COMMUNITY SOLUTIONS GROUP	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			AESTHETIC LIGHTING AND ELECTRICAL PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
08/21/24	SCHEMATIC DESIGN – NOT FOR CONSTRUCTION					ROAD NO.	COUNTY		FINANCIAL PROJECT ID
					SR 400	ORANGE	444315–1–52–01		

NO WORK SHOWN ON
THIS SHEET



PROJECT LAYOUT KEY



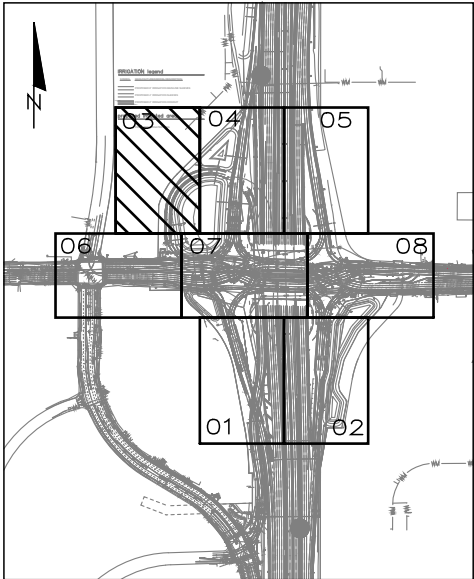
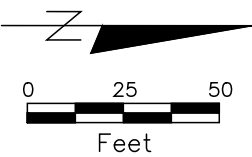
MATCHLINE SHEET EL.08

Krista Marie Taylor, P.E. #93024

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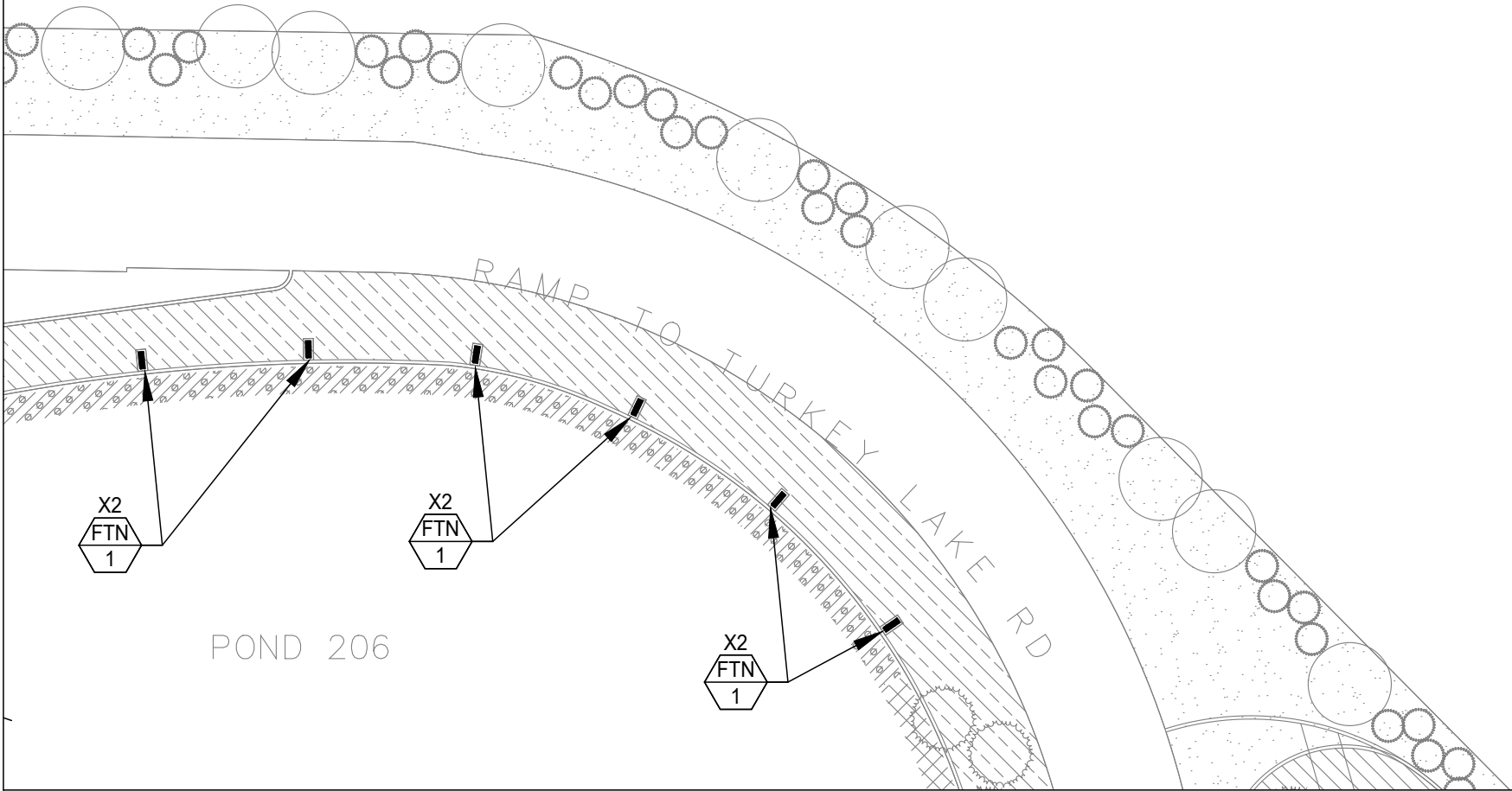
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PROJECT LAYOUT KEY

MATCHLINE SHEET EL.06



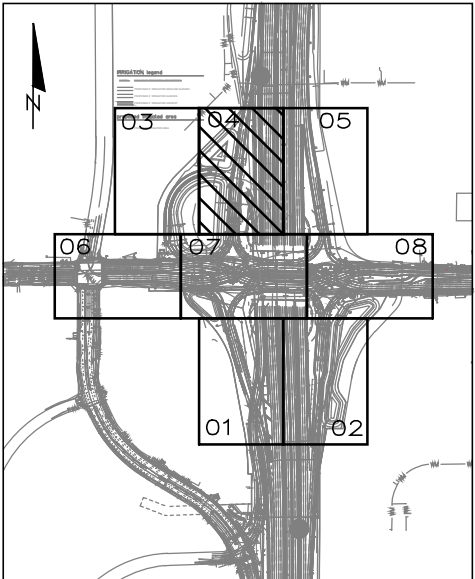
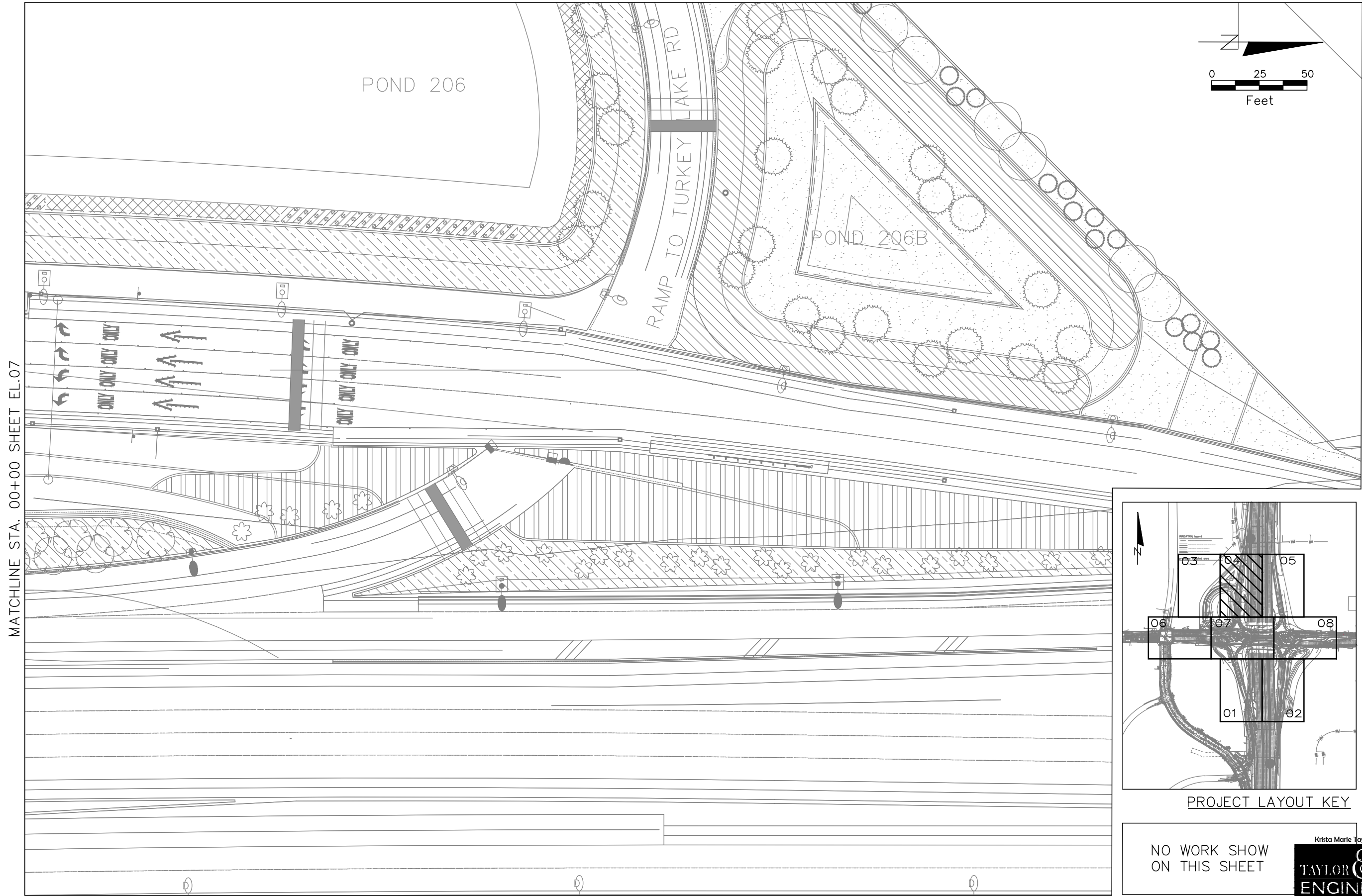
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					SR 400	ORANGE	444315-1-52-01		EL.03



PROJECT LAYOUT KEY

NO WORK SHOW
ON THIS SHEET

Krista Marie Taylor, P.E. #93024

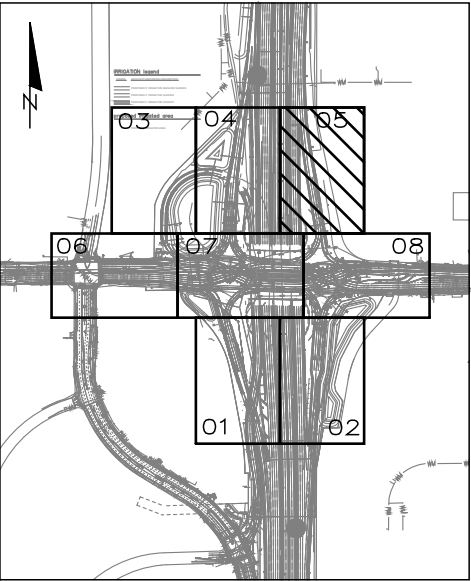
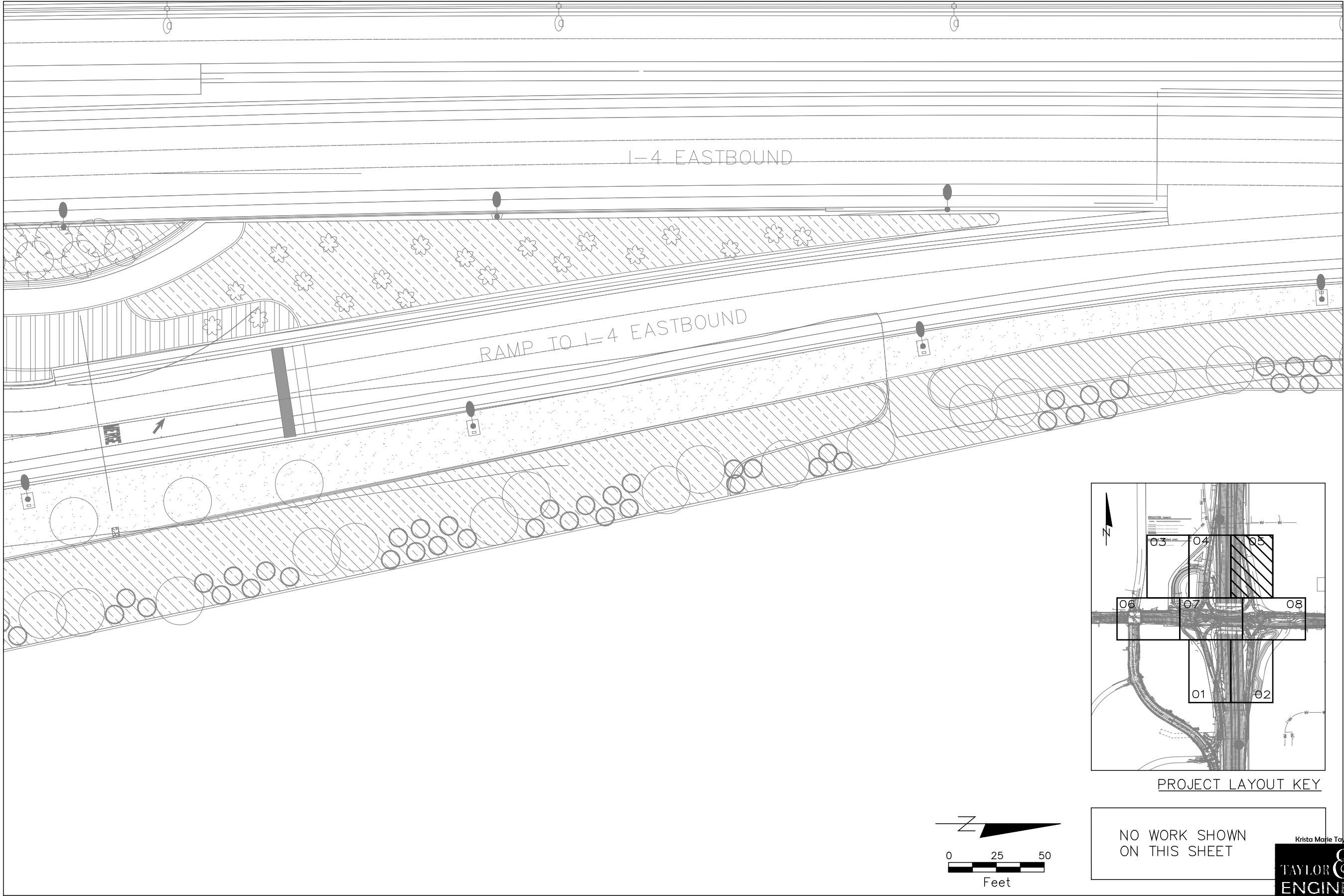
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				618 South Street Suite 700 Orlando, FL 32801 407-423-8398 Certificate of Authorization: EB9951 Anne G West, P.L.A LA # 6667082	ROAD NO. SR 400	COUNTY ORANGE	FINANCIAL PROJECT ID 444315-1-52-01
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MATCHLINE SHEET EL.08



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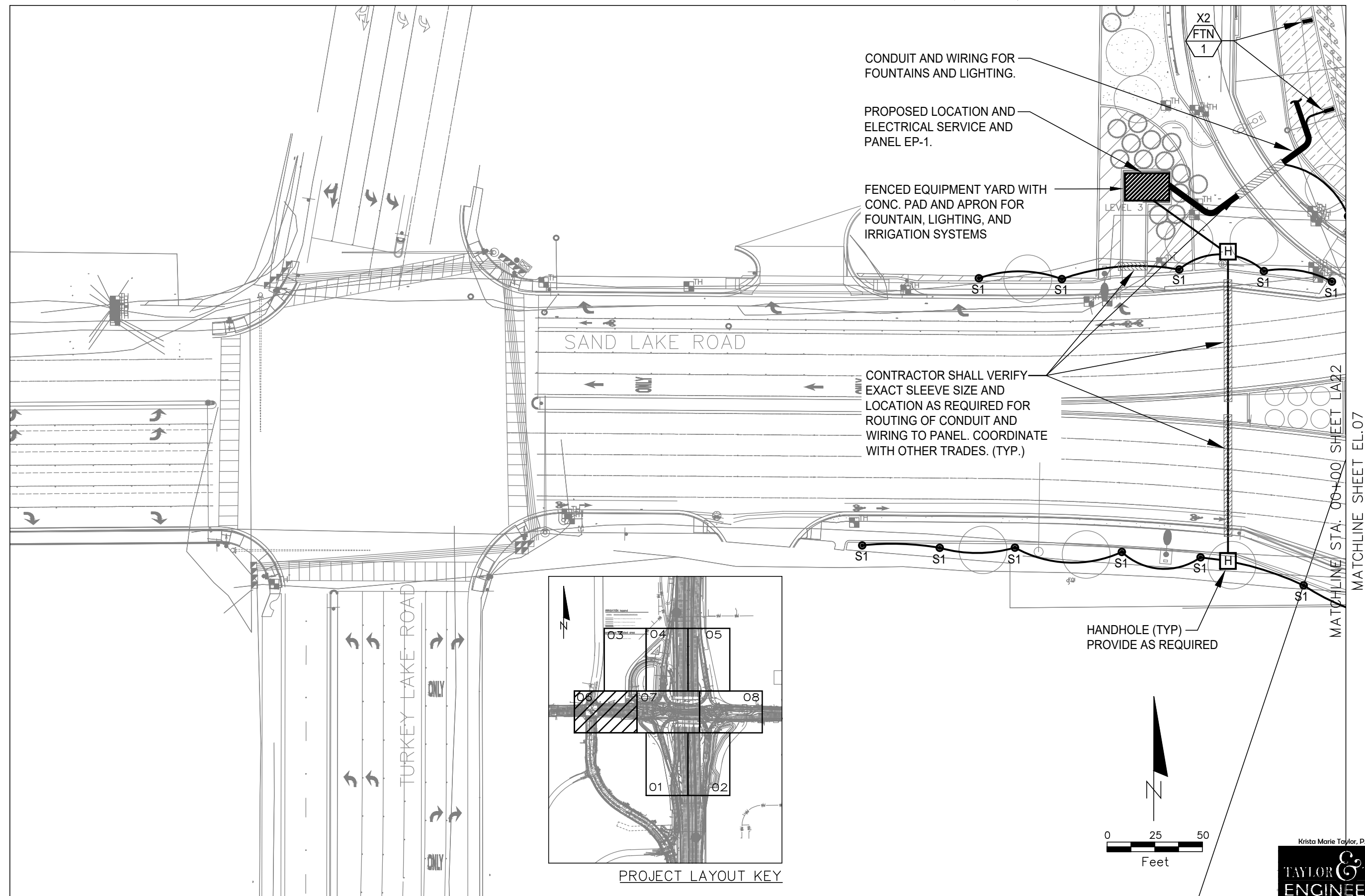
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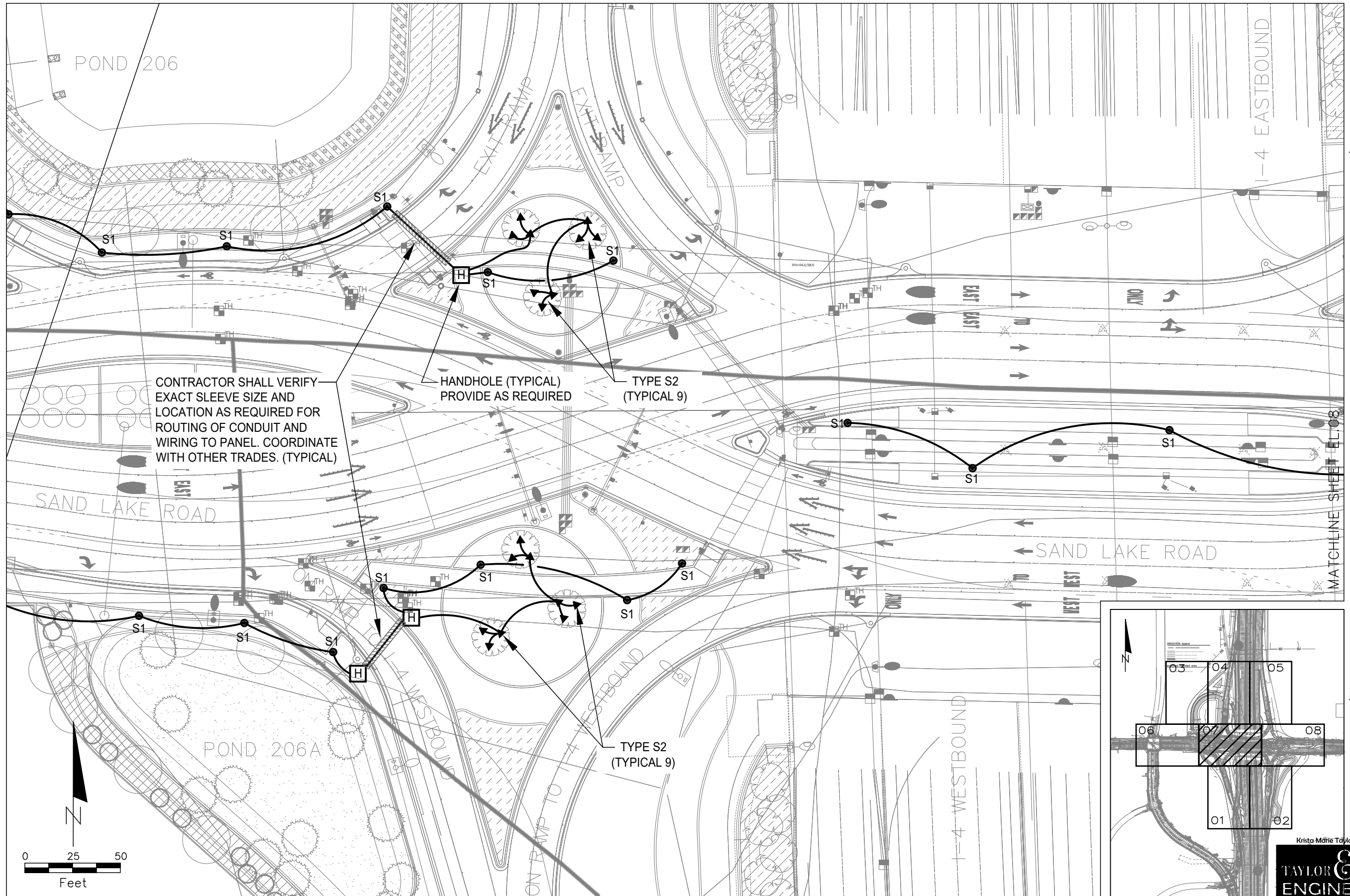
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
08/21/24	SCHEMATIC DESIGN – NOT FOR CONSTRUCTION				SR 400	ORANGE	444315-1-52-01		EL.06

MATCHLINE SHEET EL.06

MATCHLINE SHEET EL.08
(MAINLINE I-4 BRIDGE OVER PEDESTRIAN AREA NOT SHOWN FOR CLARITY)
MATCHLINE SHEET EL.08

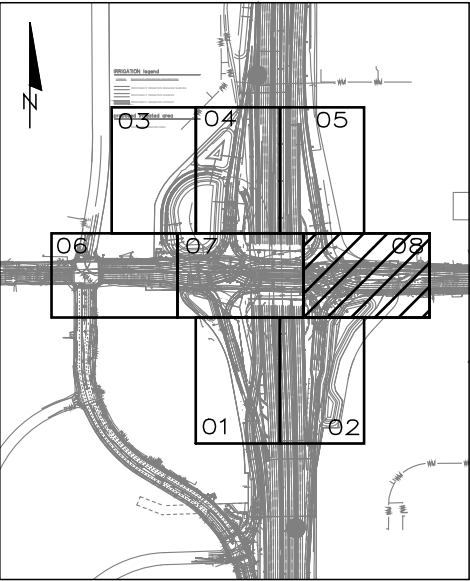
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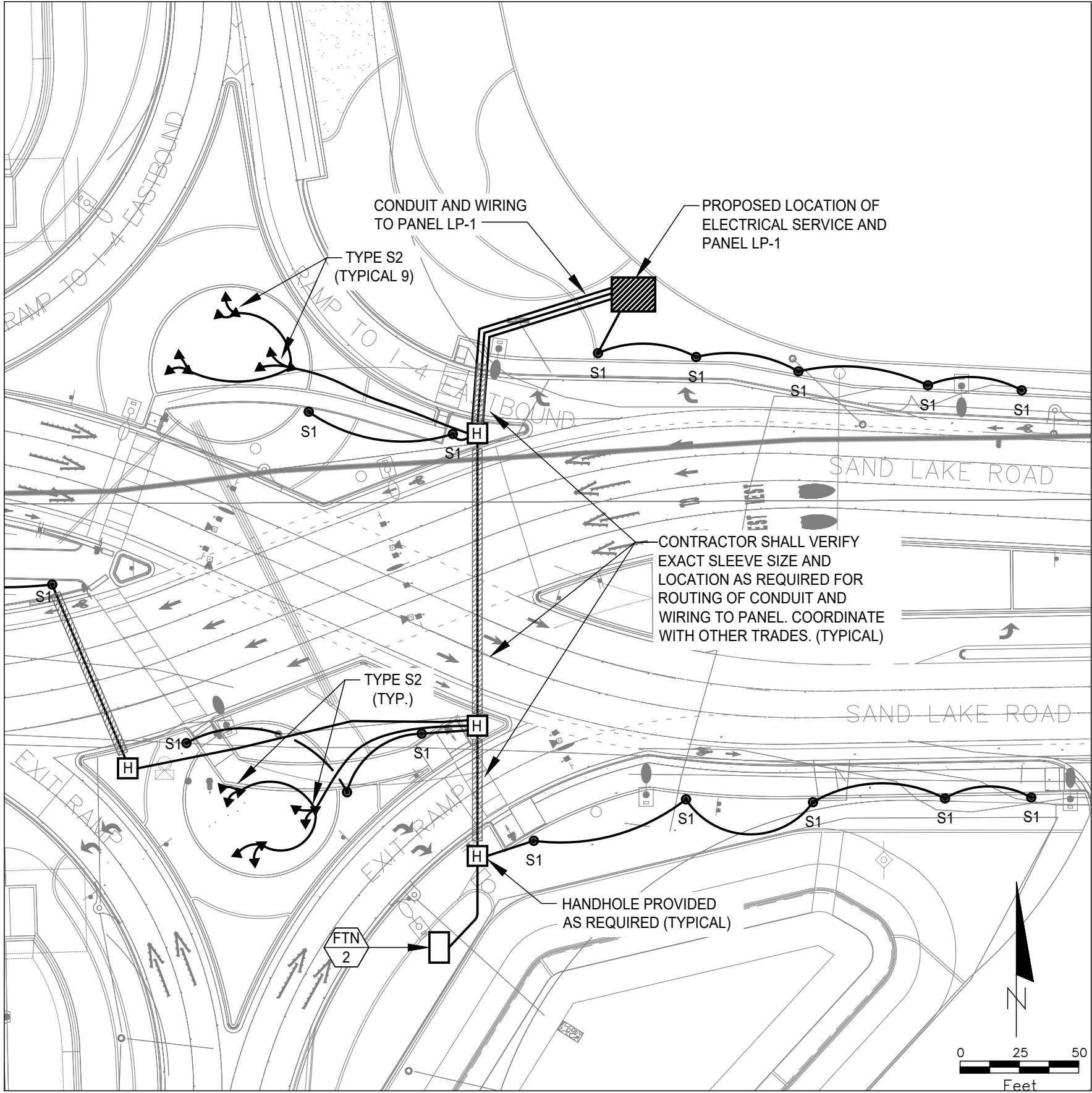
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618 South Street Suite 700 Orlando, FL 32801 407.423.8398 Certificate of Authorization: EB9951 Anne G West, P.L.A LA # 6667082	ROAD NO. SR 400	COUNTY ORANGE	FINANCIAL PROJECT ID 444315-1-52-01
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MATCHLINE SHEET EL.07



MATCHLINE SHEET EL.02

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SLIDE Series

ARCHITECTURAL AREA LUMINAIRE

FEATURES

- Versatile, transitional designed lighting fixture, created to yield the ultimate in flexibility in LED Post Top Lighting
- Classic geometric form of a cylinder offers 3 different top shades, 3 LED wattages, and 5 different full cutoff lighting distributions
- Integral LifeShield thermal regulator insures maximum life and energy efficiency
- Available with a no glare LED indirect system, for use in low mounting height pedestrian walkway lighting applications



CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- One piece optical cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel
- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system
- Two-piece silicone and micro-cellular polyurethane foam gasket ensures a weather-proof seal around each individual LED
- Beacote V polyester powder-coat electrostatically applied and thermocured
- Beacote V finish consists of a five stage pretreatment regimen with a polymer primer sealer and top coated with a thermoset super TGIC polyester powder coat finish
- The finish meets the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds

OPTICS

- 100V through 277V, 347V or 480V input, 50 Hz to 60 Hz (UNV)
- Power factor is .92 at full load
- All electrical components are rated at 50,000 hours at full load and 25°C ambient conditions per MIL- 217F Notice 2

OPTICS (CONTINUED)

- Dimming drivers are standard with connections for external dimming equipment available upon request
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is listed by UL for use at 600VAC at 50°C or higher
- Plug disconnects are listed by UL for use at 600 VAC, 13A or higher. 13A rating applies to primary (AC) side only
- The electrical chamber/fitter shall be an aluminum, decorative fitter designed to accommodate the driver assembly and shall mount to 3" OD x 4" H tenon and be secured by three stainless steel set screws
- The housing is designed for an optional twist lock photo control receptacle
- Ambient operating temperature -40°C to 40°C
- Surge protection -20KA

- Thermal circuit is designed to "fail on", allowing the luminaire to revert to full power in the event of an interruption of its power supply, or faulty wiring connection to the drivers. The device is able to co-exist with other 0–10V control devices (occupancy sensors, external dimmers, etc.)

KEY DATA	
Lumen Range	2,451–10,933
Wattage Range	27–110
Efficacy Range (LPW)	82–97
Reported Life (Hours)	L70>640,000
Weight lbs. (kg)	31 (14.1)



RELATED PRODUCTS

[Cruzer](#) [SETI](#)

DATE: LOCATION: ORLANDO
TYPE: S1 PROJECT: I-4_Sandlake
CATALOG #: SLD-48L-110-5K-T5R-UNV-FTS-BLT

CATALOG PAGE
 COLOR GUIDE
 DIMENSIONS



RSA-B-S Series Poles

ROUND STRAIGHT ALUMINUM

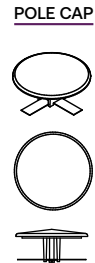
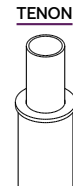
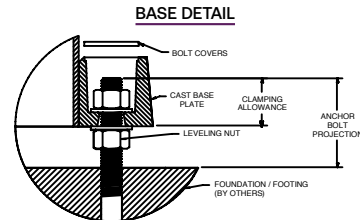
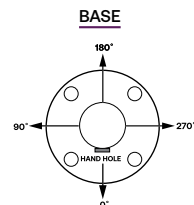
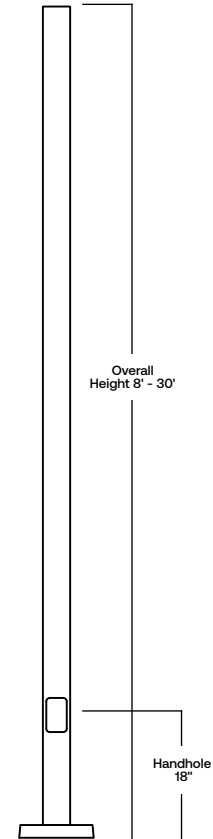
SPECIFICATIONS

CONSTRUCTION

- Shaft: One-piece straight aluminum with round cross section; Extruded shafts of 6061-T6 aluminum in 1/8", 3/16", or 1/4" thickness. Base plate of 356 cast aluminum
- Bolt covers: Four (4) individual bolt covers provided, painted to match pole and base finish
- Pole cap: Cap available for side mounted luminaires. Open top or tenons provided for post top mounted luminaires
- Hand hole: Rectangular 3x5 aluminum hand hole frame (2.28" x 4.38" opening); Mounting provisions for grounding lug located behind gasketed cover
- Anchor bolts: Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling
 - Anchor bolt part numbers: 3/4 x 30 x 3 — TAB-30-M38
- Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness
- Powder paint finish coat available in multiple standard colors; Custom colors available; RAL number preferable

INSTALLATION

- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location



Current @

currentlighting.com/beacon

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Page 1 of 5
(Rev 06/19/24)
BEA_RSA-B-S-Poles_spec_R03

1A

PEDESTRIAN LIGHT – SLIDE BEACON LUMINAIRE TYPE S1
N.T.S.

1B

PEDESTRIAN LIGHT – POLE TYPE S1
N.T.S.

Krista Marie Taylor, P.E. #93024

TAYLOR & TAYLOR
ENGINEERING
3664 ROLLING HILLS LANE, APOPKA, FL 32712
407-703-3444 - www.TaylorAndTaylor.net

REVISIONS				PREPARED BY: 618 South Street Suite 700 Orlando, FL 32801 407.423.8398 Certificate of Authorization: EB9951 Anne G West, P.L.A LA # 6667082	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			AESTHETIC LIGHTING AND ELECTRICAL SPECIFICATIONS		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
08/21/24	SCHEMATIC DESIGN – NOT FOR CONSTRUCTION				SR 400	ORANGE	444315–1–52–01			EL.09



CATALOG NUMBER

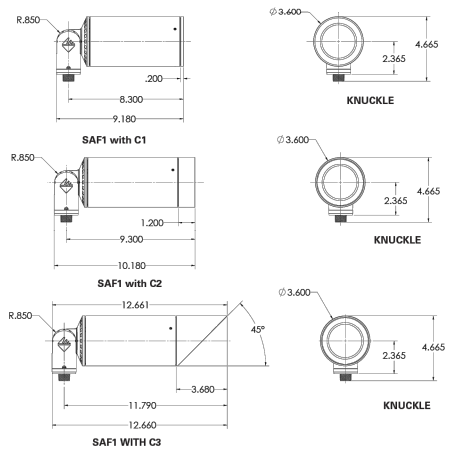
NOTES

TYPE



Specifications	
Weight:	4 lbs.
EPA:	C1: 0.266 Square Feet
	C2: 0.294 Square Feet
	C3: 0.314 Square Feet

DIMENSIONS



SAF1 LED SPECIALTY ARCHITECTURAL FLOOD MVOLT LED

HIGHLIGHTS

- Suitable for a variety of mounting applications including ground, wall, pole, stanchion and tree
- 0-10V, Reverse phase Dimming
- Taper-Lock technology provides full aiming integrity utilizing a rugged knuckle design
- Available in 80CRI
- 1500 lm
- Minimalist design that provides clean and intentional lines and transitions
- Slightly convex watershed lens that evades water build up and staining
- NOM Listed
- 3G vibration rating per ANSI C136.31

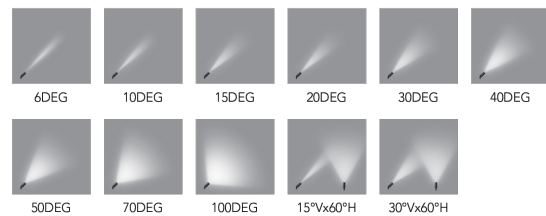


LUMEN PACKAGES

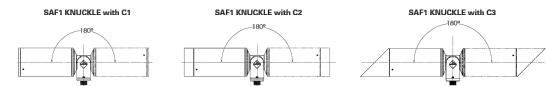
	6DEG	10DEG	15DEG	20DEG	30DEG	40DEG
Delivered Lumens	731	691	1,487	1,479	1,463	1,441
Watts	16	16	21	21	21	21
LPW	46	43	71	70	70	69
Max Candela	48,860	17,042	12,343	10,447	4,191	2,880
	50DEG	70DEG	100DEG	15Vx60H	30Vx60H	
Delivered Lumens	1,386	1,320	1,285	1,468	1,379	
Watts	21	21	21	21	21	
LPW	66	63	62	70	66	
Max Candela	1,442	964	647	2,923	1,897	

Note: Information based on 4000K @ P2, for 6DEG and 10DEG and P3 for 15DEG+ with C1. See page 3 for more information.

STANDARD DISTRIBUTION



AIMING DETAIL



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Phone: 800-705-SERV (7378) • www.hydrel.com

SAF1_LED | Rev. 07/31/24
Page 1 of 8

1A LANDSCAPE UP LIGHT – TYPE S2
N.T.S.



CATALOG NUMBER

NOTES

TYPE



Specifications
Diameter: 2-1/4"

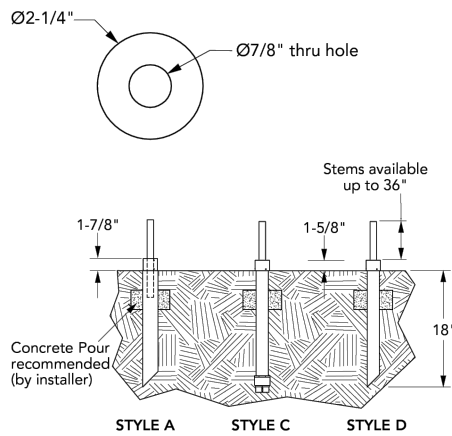
POST MOUNT™ 60

HIGHLIGHTS

- Ground mounting post mount
- Available in aluminum or brass material
- Stems available in lengths from 3" to 36"
- Suitable for fixtures with 1/2" NPT



DIMENSIONS



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PM60A-C-D | Rev. 03/14/24
Page 1 of 2

1B LANDSCAPE UP LIGHT – TYPE S2 MOUNTING
N.T.S.

Krista Marie Taylor, P.E. #93024



REVISIONS				PREPARED BY: COMMUNITY SOLUTIONS GROUP	618 South Street Suite 700 Orlando, FL 32801 407-423-8398 Certificate of Authorization: EB9951 Anne G West, P.L.A LA # 6667082	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			AESTHETIC LIGHTING AND ELECTRICAL SPECIFICATIONS		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
08/21/24	SCHEMATIC DESIGN – NOT FOR CONSTRUCTION					SR 400	ORANGE	444315-1-52-01			EL.10

LIGHTING FIXTURE SCHEDULE								
MARK	DESCRIPTION	MANUFACTURER	MODEL	VOLTS	LAMP QTY	LAMP WATTS	LAMP TYPE	FIXTURE WATTS
S1	POLE MOUNTED LED PEDESTRIAN LIGHT FIXTURE ON 12' HALOPHANE POLE	HUBBELL LIGHTING	SLD/48L/110/5K/T5R/UNV/FTS/BLT POLE #SL-A-12-T2J-T2J-ABG-BK	208	1	110	LED	110
S2	GROUND MOUNTED LED LANDSCAPE UPLIGHT WITH INTEGRAL DRIVER	HYDREL	SAF1 LED	208	1	21	LED	21
NOTES: 1. ALL FIXTURES ARE SELECTED BY OWNER. ALL FINISHES, AND/OR EQUIVALENT SUBSTITUTIONS SHALL BE APPROVED BY ARCHITECT/OWNER PRIOR TO ORDERING. 2. ALL FIXTURES SHALL INCLUDE LAMPS. 3. LIGHTING MANUFACTURER SHALL PROVIDE ALL REQUIRED HARDWARE AND INSTALLATION INSTRUCTIONS. 4. FIXTURES SHALL BE SPECIFICATION GRADE / COMMERCIAL GRADE AND CONSTRUCTED OF NON-CORROSIVE MATERIALS. 5. FIXTURES SHALL BE U.L. LISTED.								

EQUIPMENT CONNECTION SCHEDULE												
MARK	DESCRIPTION	VOLTS	PHASE	MOTOR HP	HEAT (kW)	FLA	MCA (AMPS)	MOCP (AMPS)	SAFETY SWITCH	STARTER/VFD	FEEDER	NOTES
FTN-1 (8)	WATER FEATURE FOUNTAIN	208	3	10.00		32.2		70	BY OTHERS	BY OTHERS	(4) #4, #8G, 1.25"C	1,2
FTN-2 (1)	WATER FEATURE FOUNTAIN	208	3	10.00		32.2		70	BY OTHERS	BY OTHERS	(4) #4, #8G, 1.25"C	1,2
NOTES: 1. COORDINATE ELECTRICAL REQUIREMENTS WITH APPROVED SHOP DRAWINGS PRIOR TO ROUGH-IN. ADJUST CONDUCTOR SIZE, CONDUIT SIZE, AND/OR OVERCURRENT PROTECTIVE DEVICE SIZE (AS REQUIRED). VERIFY EXACT LOCATION WITH OWNER. CONTRACTOR SHALL PROVIDE FEEDER TO FOUNTAIN CONTROL PANEL. ALL OTHER WORK IS BY FOUNTAIN CONTRACTOR. 2. FEEDERS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2% OF MAXIMUM POTENTIAL LOAD. BRANCH CIRCUITS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% OF MAXIMUM POTENTIAL LOAD. WHEN FINAL FEEDER ROUTE IS ESTABLISHED, E.C. SHALL CONFIRM VOLTAGE DROP HAS BEEN ACCOMMODATED BY INCREASING FEEDER SIZES IF OR AS REQUIRED.												

RISER DIAGRAM PLAN NOTES

- 1

UTILITY COMPANY TRANSFORMER. CONTRACTOR SHALL VERIFY EXACT LOCATION WITH OWNER AND ELECTRIC UTILITY.
- 2

COORDINATE INSTALLATION REQUIREMENTS FOR METER/CT'S WITH ELECTRIC UTILITY.
- 3

CONTRACTOR SHALL COORDINATE EXACT SERVICE LOCATION AND REQUIREMENTS WITH UTILITY. PROVIDE TRENCHING, BACKFILL, CONDUIT, SECONDARY CONDUCTORS AND CONNECTION TO UTILITY TRANSFORMER.
- 4

(2) #12, #12 GRD. 3/4" C. FOR CONTACTOR CIRCUIT.
- 5

LIGHTING CONTROL CONTACTOR SHALL BE 120V INPUT, (4) RELAY, ASTRONOMIC, PROGRAMMABLE TIMECLOCK/RELAY PANEL. COORDINATE HOURS OF OPERATION WITH THE OWNER TO SET TIME CLOCK SCHEDULE. PROVIDE IN NEMA 3R ENCLOSURE. CIRCUITRY SHALL BE CONTROLLED VIA PHOTOCELL "ON" / TIMECLOCK "OFF". PROVIDE PHOTOCELL COMPATIBLE WITH LIGHTING CONTACTOR.
- 6

PROVIDE STEEL CHANNEL SUPPORT RACK FOR ELECTRICAL EQUIPMENT. POSTS MUST BE SPACED TO PROVIDE STABLE MOUNTING FOR EQUIPMENT. RACK CROSS-MEMBERS AND HARDWARE MUST BE STAINLESS STEEL FOR MOUNTING OF THE ELECTRICAL ENCLOSURES. EXTERIOR UNITS SHALL BE THOROUGHLY INSPECTED AFTER INSTALLATION.
- 7

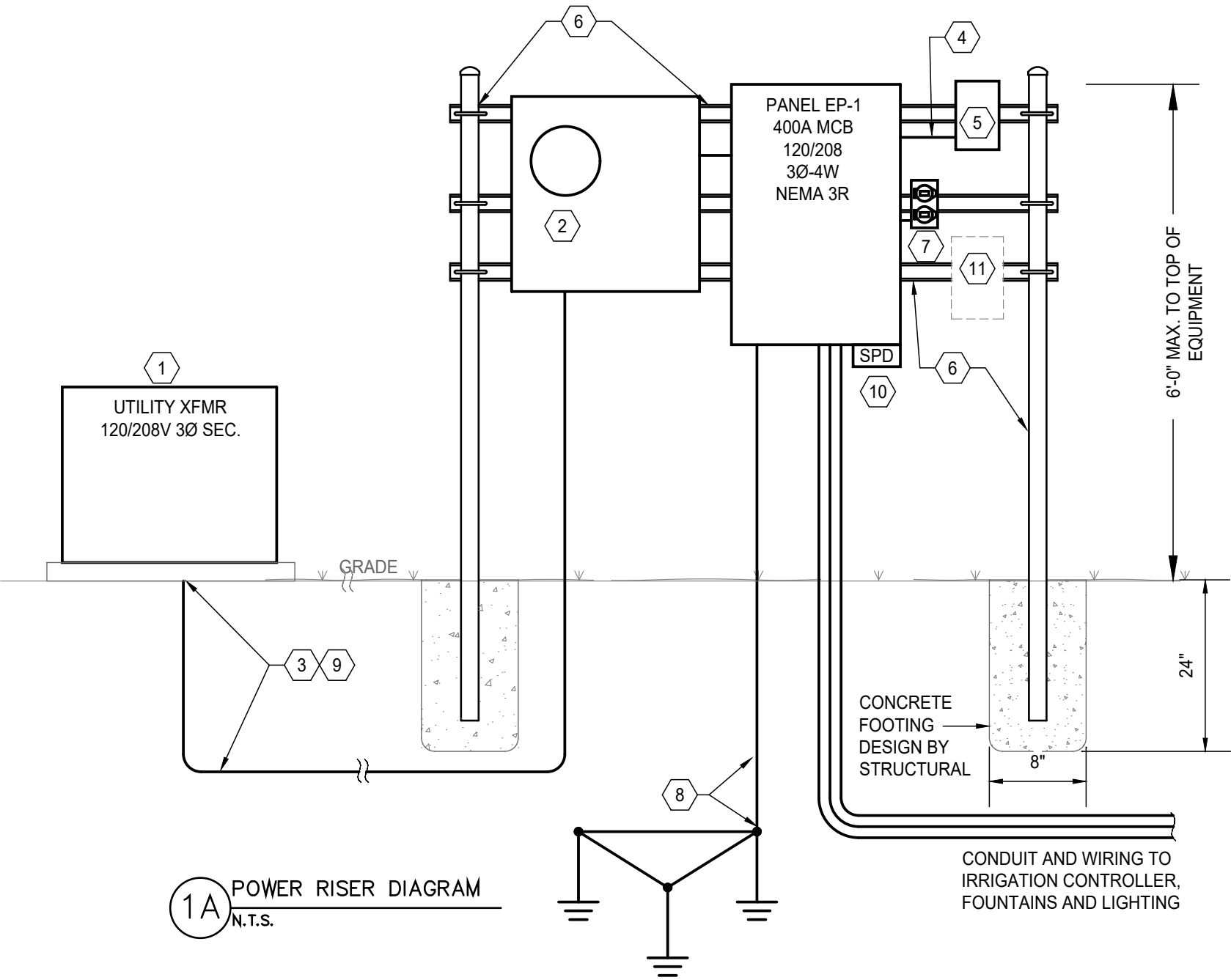
PROVIDE 120V DUPLEX GFCI RECEPTACLE IN WEATHERPROOF ENCLOSURE WITH LOCKABLE IN-USE COVER.
- 8

PROVIDE #1/0 Cu GROUND IN 1" CONDUIT TO 5/8"x30' CU CLAD GROUND THREE POINT GROUND TRIAD.
- 9

PROVIDE (4) #600 Cu IN 1-1/2" SCHEDULE 80 PVC CONDUIT TO NEW SERVICE LOCATION. TRANSITION TO GALVANIZED METAL CONDUIT PRIOR TO GRADE LEVEL PER NEC 300.5. CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH UTILITY PRIOR TO START OF WORK.
- 10

PROVIDE SURGE PROTECTION DEVICE EQUAL TO PQ PROTECTION #PQS300-120/208. INSTALL PER MANUFACTURER'S RECOMMENDATIONS KEEPING LEAD LENGTHS TO A MINIMUM.
- 11

ACCOMMODATIONS FOR FUTURE IRRIGATION CONTROLLER. VERIFY EXACT LOCATION AND CONNECTION REQUIREMENTS.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
08/21/24	SCHEMATIC DESIGN – NOT FOR CONSTRUCTION		

PREPARED BY:

COMMUNITY SOLUTIONS GROUP

618 South Street
Suite 700
Orlando, FL 32801
407.423.8398
Certificate of Authorization:
EB9951
Anne G. West, P.L.A
LA # 6667082

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

Krista Marie Taylor, P.E. #93024

TAYLOR & TAYLOR ENGINEERING

3664 ROLLING HILLS LANE, APOPKA, FL 32712
407-703-3444 - www.TaylorAndTaylor.net

RISER DIAGRAM

SHEET NO.

EL.12

RISER DIAGRAM PLAN NOTES

- 1

UTILITY COMPANY TRANSFORMER. CONTRACTOR SHALL VERIFY EXACT LOCATION WITH OWNER AND ELECTRIC UTILITY.
- 2

COORDINATE INSTALLATION REQUIREMENTS FOR METER/CT'S WITH ELECTRIC UTILITY.
- 3

CONTRACTOR SHALL COORDINATE EXACT SERVICE LOCATION AND REQUIREMENTS WITH UTILITY. PROVIDE TRENCHING, BACKFILL, CONDUIT, SECONDARY CONDUCTORS AND CONNECTION TO UTILITY TRANSFORMER.
- 4

(2) #12, #12 GRD. 3/4" C. FOR CONTACTOR CIRCUIT.
- 5

LIGHTING CONTROL CONTACTOR SHALL BE 120V INPUT, (4) RELAY, ASTRONOMIC, PROGRAMMABLE TIMECLOCK/RELAY PANEL. COORDINATE HOURS OF OPERATION WITH THE OWNER TO SET TIME CLOCK SCHEDULE. PROVIDE IN NEMA 3R ENCLOSURE. CIRCUITRY SHALL BE CONTROLLED VIA PHOTOCELL "ON" / TIMECLOCK "OFF". PROVIDE PHOTOCELL COMPATIBLE WITH LIGHTING CONTACTOR.
- 6

PROVIDE STEEL CHANNEL SUPPORT RACK FOR ELECTRICAL EQUIPMENT. POSTS MUST BE SPACED TO PROVIDE STABLE MOUNTING FOR EQUIPMENT. RACK CROSS-MEMBERS AND HARDWARE MUST BE STAINLESS STEEL FOR MOUNTING OF THE ELECTRICAL ENCLOSURES. EXTERIOR UNITS SHALL BE THOROUGHLY INSPECTED AFTER INSTALLATION.
- 7

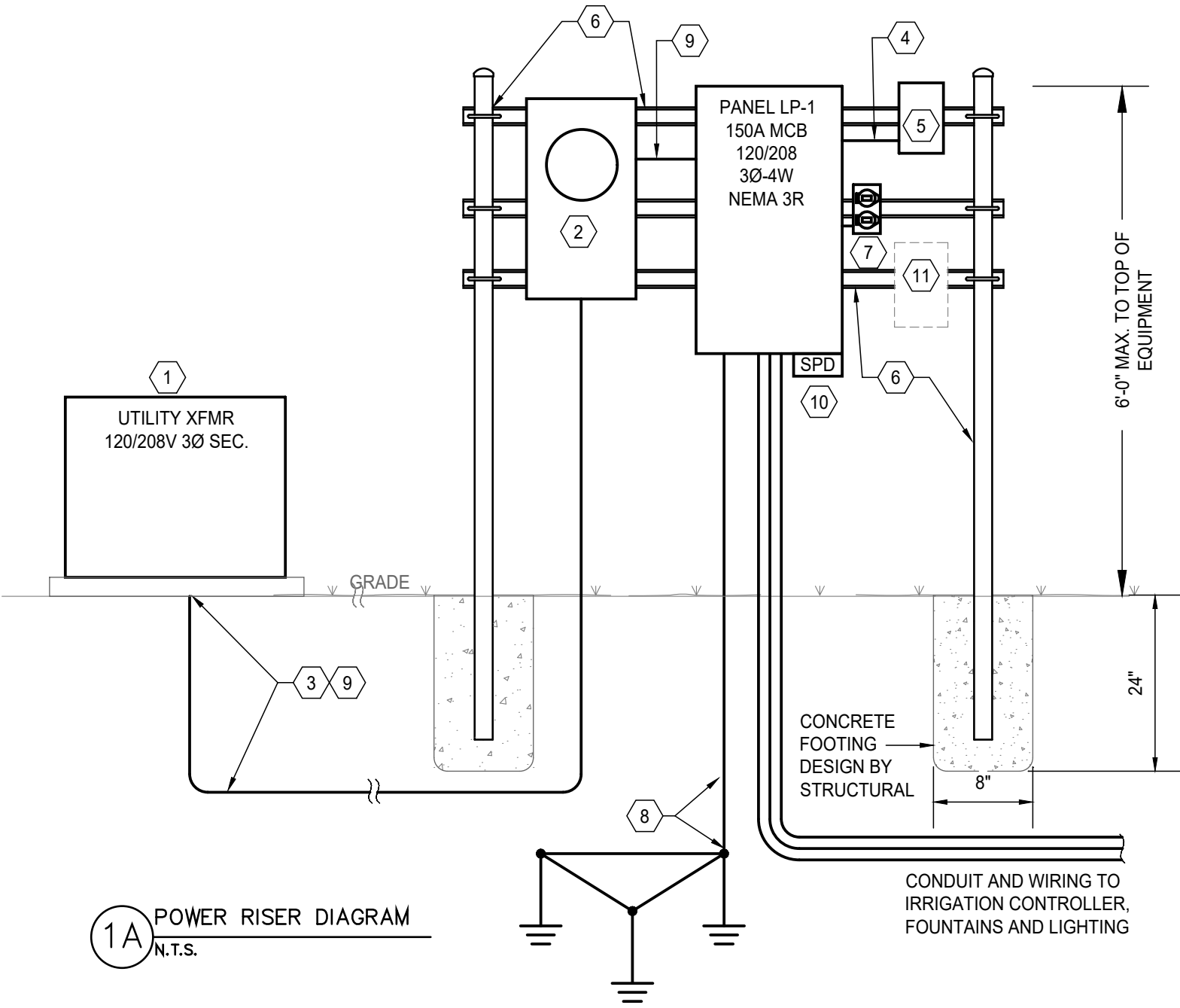
PROVIDE 120V DUPLEX GFCI RECEPTACLE IN WEATHERPROOF ENCLOSURE WITH LOCKABLE IN-USE COVER.
- 8

PROVIDE #6 Cu GROUND IN 1" CONDUIT TO 5/8"x30' CU CLAD GROUND THREE POINT GROUND TRIAD.
- 9

PROVIDE (4) #1/0 Cu IN 1-1/2" SCHEDULE 80 PVC CONDUIT TO NEW SERVICE LOCATION. TRANSITION TO GALVANIZED METAL CONDUIT PRIOR TO GRADE LEVEL PER NEC 300.5. CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH UTILITY PRIOR TO START OF WORK.
- 10

PROVIDE SURGE PROTECTION DEVICE EQUAL TO PQ PROTECTION #PQC300-120/208. INSTALL PER MANUFACTURER'S RECOMMENDATIONS KEEPING LEAD LENGTHS TO A MINIMUM.
- 11

ACCOMMODATIONS FOR FUTURE IRRIGATION CONTROLLER. VERIFY EXACT LOCATION AND CONNECTION REQUIREMENTS.



1A POWER RISER DIAGRAM
N.T.S.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
08/21/24	SCHEMATIC DESIGN – NOT FOR CONSTRUCTION		

PREPARED BY:



618 South Street
Suite 700
Orlando, FL 32801
407.423.8398
Certificate of Authorization:
EB9951
Anne G. West, P.L.A
LA # 6667082

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

RISER DIAGRAM		SHEET NO.
		EL.13

- A. ALL WORK SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF NFPA 70 - THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL, STATE AND LOCAL CODES.
- B. PROVIDE GROUNDING AND BONDING FOR ALL SYSTEMS PER NEC 250.
- C. ALL DISTRIBUTION EQUIPMENT AND EACH OVER CURRENT DEVICE SHALL BE RATED FOR THE AVAILABLE FAULT CURRENT PRESENT AT THE LINE SIDE TERMINALS OF THE DEVICE. SERIES RATED DEVICES AND EQUIPMENT IS NOT ACCEPTABLE.
- D. UNLESS OTHERWISE NOTED, PANELBOARDS AND/OR LOAD CENTERS SHALL BE PROVIDED WITH COPPER BUSES.
- E. FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH-IN.
- F. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
- G. FOR LARGE VOLTAGE DROPS WHERE EQUIPMENT IS UNABLE TO ACCOMMODATE UPSIZED CONDUCTORS, PROVIDE LUG KITS AS REQUIRED. WHERE LUG KITS ARE UNABLE TO ACCOMMODATE UPSIZED CONDUCTORS, SPLICE AND TRANSITION TO A SMALLER CONDUCTOR SIZE AT THE POINT OF TERMINATION VIA AN AUXILIARY GUTTER, PULL BOX, WIREWAY, OR OTHER SUITABLE DEVICE.
- H. CONTRACTOR SHALL PROVIDE "ARC FLASH/SHOCK HAZARD" SIGNAGE FOR ALL PANELBOARDS AS REQUIRED PER ANSI, NEC, OSHA AND NFPA. INCLUDE ALL INFORMATION PER LATEST REQUIREMENTS INCLUDING REQUIRED LEVEL OF PPE, AVAILABLE FAULT CURRENT, APPROACH BOUNDARIES, ETC.
- I. ELECTRICAL CONTRACTOR SHALL PROVIDE NEW, ACCURATELY UPDATED TYPED CIRCUIT INDEX CARDS FOR ALL PANELS/LOAD CENTERS, AND ANY OTHER METHODS OF LABELING CIRCUITS SHALL BE REMOVED.
- J. ELECTRICAL CONTRACTOR SHALL INSTALL FILLERS IN ALL EMPTY BREAKER SPACES. NO PANELS SHALL BE LEFT WITH OPEN SPACES AT AVAILABLE POLE POSITIONS.
- K. DESIGN ATTEMPTS TO BALANCE LOADS SUCH ALL PHASES ARE LOADED WITHIN 10% OF EACH OTHER. ELECTRICAL CONTRACTOR SHALL MAINTAIN THIS BALANCE WHEN ALTERING BREAKER LOCATIONS FROM THE DESIGN.

Krista Marie Taylor, P.E. #93024

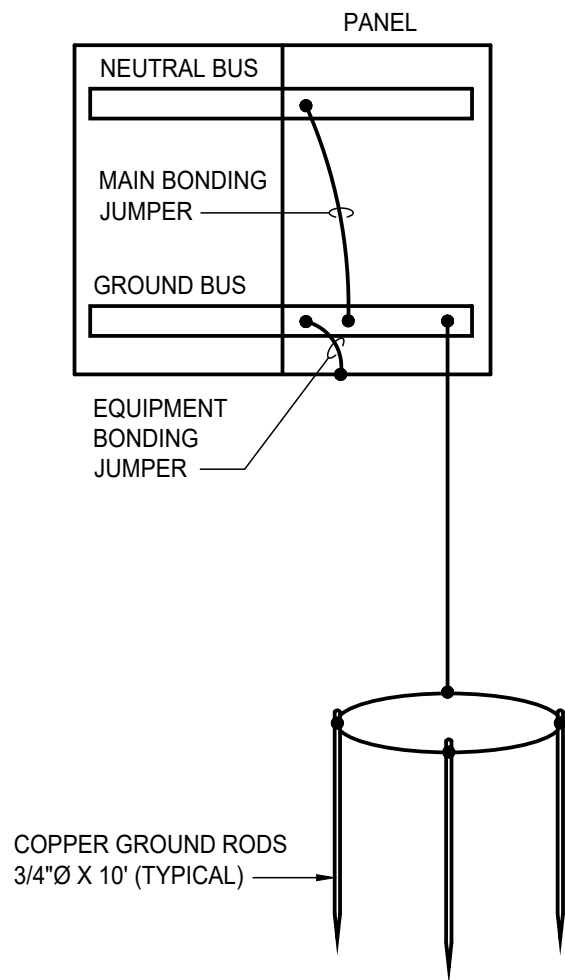
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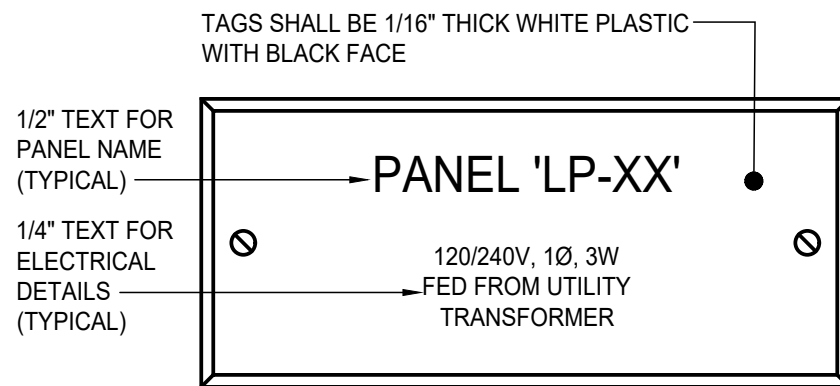
PANEL SCHEDULE

- GENERAL NOTES - PANEL SCHEDULES
- A. ALL WORK SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF NFPA 70 - THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL, STATE AND LOCAL CODES.
- B. PROVIDE GROUNDING AND BONDING FOR ALL SYSTEMS PER NEC 250.
- C. ALL DISTRIBUTION EQUIPMENT AND EACH OVER CURRENT DEVICE SHALL BE RATED FOR THE AVAILABLE FAULT CURRENT PRESENT AT THE LINE SIDE TERMINALS OF THE DEVICE. SERIES RATED DEVICES AND EQUIPMENT IS NOT ACCEPTABLE.
- D. UNLESS OTHERWISE NOTED, PANELBOARDS AND/OR LOAD CENTERS SHALL BE PROVIDED WITH COPPER BUSSES.
- E. FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH-IN.
- F. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
- G. FOR LARGE VOLTAGE DROPS WHERE EQUIPMENT IS UNABLE TO ACCOMMODATE UPSIZED CONDUCTORS, PROVIDE LUG KITS AS REQUIRED. WHERE LUG KITS ARE UNABLE TO ACCOMMODATE UPSIZED CONDUCTORS, SPLICE AND TRANSITION TO A SMALLER CONDUCTOR SIZE AT THE POINT OF TERMINATION VIA AN AUXILIARY GUTTER, PULL BOX, WIREWAY, OR OTHER SUITABLE DEVICE.
- H. CONTRACTOR SHALL PROVIDE "ARC FLASH/SHOCK HAZARD" SIGNAGE FOR ALL PANELBOARDS AS REQUIRED PER ANSI, NEC, OSHA AND NFPA. INCLUDE ALL INFORMATION PER LATEST REQUIREMENTS INCLUDING REQUIRED LEVEL OF PPE, AVAILABLE FAULT CURRENT, APPROACH BOUNDARIES, ETC.
- I. ELECTRICAL CONTRACTOR SHALL PROVIDE NEW, ACCURATELY UPDATED TYPED CIRCUIT INDEX CARDS FOR ALL PANELS/LOAD CENTERS, AND ANY OTHER METHODS OF LABELING CIRCUITS SHALL BE REMOVED.
- J. ELECTRICAL CONTRACTOR SHALL INSTALL FILLERS IN ALL EMPTY BREAKER SPACES. NO PANELS SHALL BE LEFT WITH OPEN SPACES AT AVAILABLE POLE POSITIONS.
- K. DESIGN ATTEMPTS TO BALANCE LOADS SUCH ALL PHASES ARE LOADED WITHIN 10% OF EACH OTHER. ELECTRICAL CONTRACTOR SHALL MAINTAIN THIS BALANCE WHEN ALTERING BREAKER LOCATIONS FROM THE DESIGN.

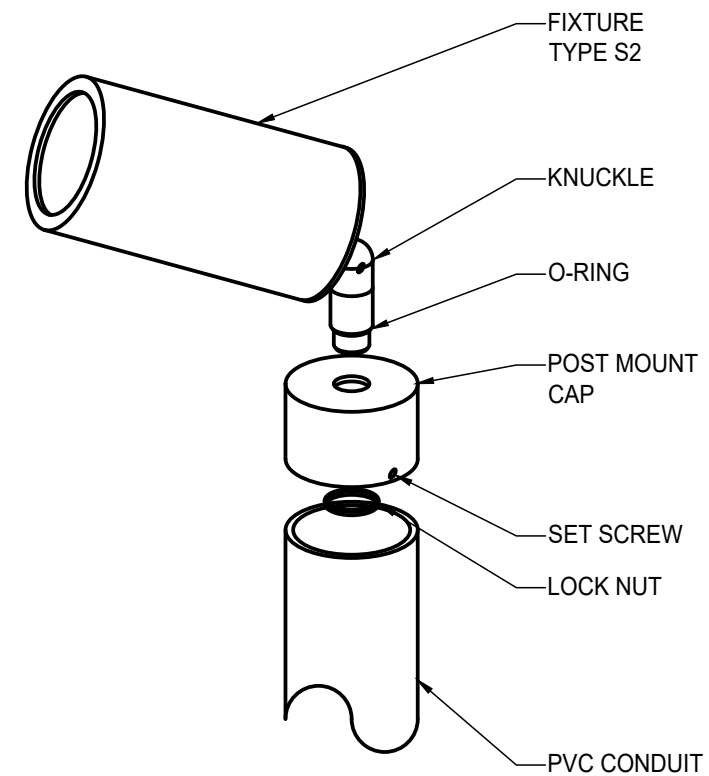
PANEL LP-1																					
LOCATION: EXTERIOR				VOLTAGE: 208/120 V						MIN. AIC RATING: TBD						NOTES: 1. PROVIDE TYPE-WRITTEN DIRECTORY. 2. PROVIDE GROUND & NEUTRAL BUS.					
TYPE: SQUARE D TYPE NQ (OR EQUIV)				OCP: 100A MCB						MOUNTING: SURFACE											
FED FROM: UTILITY				LUGS: SUB-FEED FEED-THRU						ENCLOSURE: NEMA 3R											
CKT.	CIRCUIT DESCRIPTION			NOTES	BRANCH CIRCUIT			BKR	LOAD KVA	PHASE Ø	LOAD KVA	BKR	BRANCH CIRCUIT				NOTES	CIRCUIT DESCRIPTION			CKT.
		Ø	NEUT	GND	COND								Ø	NEUT	GND	COND					
1	LIGHTING	3	12	12	12	0.75	20/2	1.20	A	1.20	20/2	12	12	12	0.75	3	LIGHTING		2		
3			12	-	-			1.20	B	1.20		12								4	
5	LIGHTING	3	12	12	12	0.75	20/2	1.20	C	1.20	20/2	12	12	12	0.75	3	LIGHTING		6		
7			12	-	-			1.20	A	1.20		12								8	
9	LIGHTING	3	12	12	12	0.75	20/2	1.20	B	1.20	20/2	12	12	12	0.75	3	LIGHTING		10		
11			12	-	-			1.20	C	1.20		12								12	
13	SPARE		-	-	-	-	20/2	0.00	A	0.18	20/1	12	12	12	0.75		RECEPT. AT ELECTRICAL SERVICE		14		
15			-	-	-			0.00	B	0.18	20/1	12	12	12	0.75		LIGHTING CONTROL CONTACTOR		16		
17	SPARE		-	-	-	-	20/2	0.00	C	0.00	-	-	-	-	-		SPACE		18		
19			-	-	-			0.00	A	0.00	-	-	-	-	-		SPACE		20		
21	IRRIGATION CONTROLLER		12	12	12	0.75	20/1	0.18	B	0.00	-	-	-	-	-		SPACE		22		
23	SPACE		-	-	-	-	-	0.00	C	0.00	-	-	-	-	-		SPACE		24		
25	FOUNTAIN FTN-2	1,2	4	4	8	1.25	70/3	3.86	A	0.00	30/3	10	10	10	3/4"		SPD		26		
27			4	-	-			3.86	B	0.00		10	10	10					28		
29			4	-	-			3.86	C	0.00		10	10	10					30		
EQUIPMENT SERVED						CONN. LOAD			LF.	D.F.	DEMAND LOAD										
LIGHTING						14.40 KVA				125%	18.00 KVA										
RECEPTACLES - GENERAL						0.18 KVA				100%	0.18 KVA			TOTAL CONNECTED LOAD		26.52 KVA					
EQUIPMENT						0.36 KVA				100%	0.36 KVA			TOTAL DEMAND LOAD		30.12 KVA					
MOTORS (PUMPS)						11.58 KVA				100%	11.58 KVA										
EV CHARGERS						0.00 KVA				125%	0.00 KVA										
NOTES:																					
1. LOADS SHOWN HERE ARE BASED ON PRELIMINARY DATA FOR SCHEMATIC LEVEL DESIGN. CONFIRM ALL FINAL EQUIPMENT AND UTILTIY INFORMATION PRIOR TO ISSUING CONSTRUCTION DOCUMENTS.																					
2. REFER TO EQUIPMENT CONNECTION SCHEDULE FOR FURTHER INFORMATION, INCLUDE NOTE REGARDING VOLTAGE DROP.																					
3. 208V/1PHASE LIGHTING CIRCUIT. BRANCH FEEDER SIZES WILL VARY ACCORDING TO FINAL VOLTAGE DROP CALCULATIONS ONCE FINAL FIXTURE LOCATIONS ARE DETERMINED AND VERIFIED.														TOTAL DEMAND AMPS ==> 83.67 AMPS							



1C TYPICAL DISTRIBUTION SERVICE GROUNDING
N.T.S.



1B ENGRAVED EQUIPMENT LABELING
N.T.S.



1A TYPE S2 LIGHTING DETAIL
N.T.S.
NOTES:
INSTALL LIGHT FIXTURE PER
MANUFACTURER'S RECOMMENDATIONS.

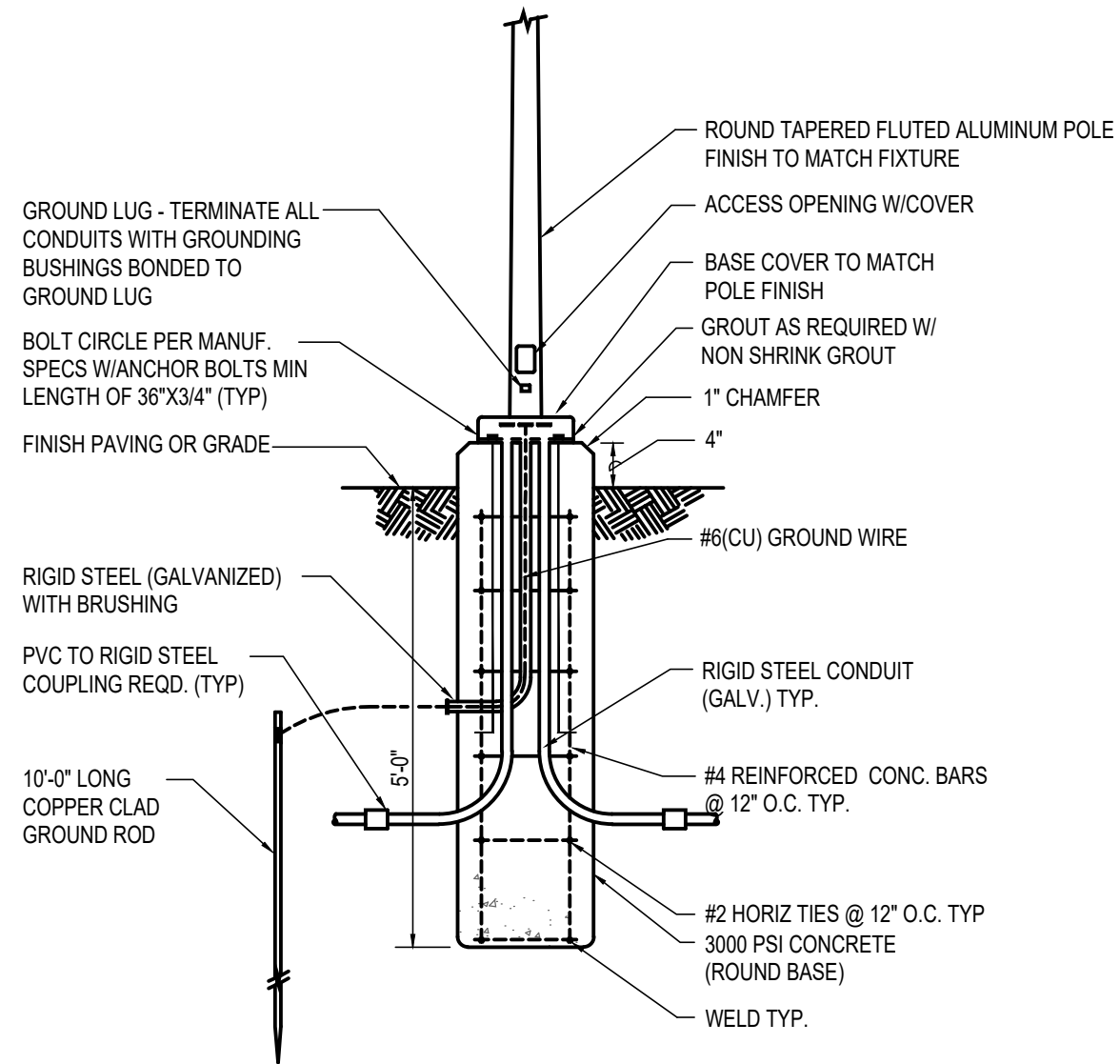
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
08/21/24	SCHEMATIC DESIGN – NOT FOR CONSTRUCTION		

COMMUNITY SOLUTIONS GROUP	PREPARED BY:	618 South Street Suite 700 Orlando, FL 32801 407.423.8398 Certificate of Authorization: EB9951 Anne G West, P.L.A LA # 6667082

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

AESTHETIC LIGHTING AND ELECTRICAL DETAILS	

SHEET NO.
EL.16



1A POLE BASE DETAIL
N.T.S.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
08/21/24	SCHEMATIC DESIGN – NOT FOR CONSTRUCTION		

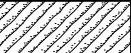
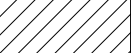
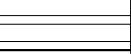
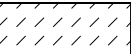
COMMUNITY SOLUTIONS GROUP	PREPARED BY:	618 South Street Suite 700 Orlando, FL 32801 407-423-8398 Certificate of Authorization: EB9951 Anne G. West, P.L.A LA # 6667082

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

AESTHETIC LIGHTING AND ELECTRICAL DETAILS	
EL.17	

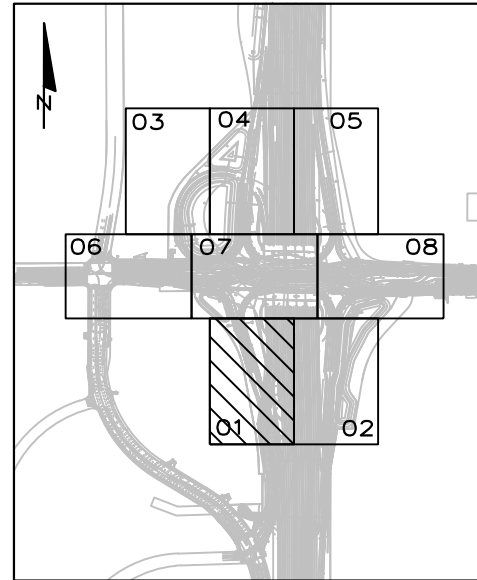
SHEET NO.
EL.17

PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SIZE	NATIVE/NON-NATIVE		REMARKS
TREES								
	LL	42	LAGERSTROEMIA INDICA 'NATCHEZ' / NATCHEZ WHITE CRAPE MYRTLE	FIELD GROWN STD.	14-15' HT. X 7-8' SPRD. 6' CT MIN.	A.S.		
	PC	12	PHOENIX CANARIENSIS / CANARY ISLAND DATE PALM	FIELD GROWN	20' CT. SPECIMENS	A.S.		
	PM	41	PHOENIX DACTYLIFERA 'MEDJOOl' / MEDJOOl DATE PALM	F.G.	30' HT. MATCHED SPECIMENS	A.S.		MATCHED SPECIMENS
	PE	155	PINUS ELLIOTTI 'DENSE' / SOUTH FLORIDA SLASH PINE	F.G.	12'-16' HT.	A.S.		STRAIGHT TRUNK
	QV	95	QUERCUS VIRGINIANA 'HIGHRISE' / LIVE OAK	200 GAL.	18'-20' HT X 10 SPRD. 6' CT.	A.S.		
	SS	83	SABAL PALMETTO / CABBAGE PALMETTO	F.G.	12' X 18' HT., REGENERATED ROOTS	A.S.		WITHOUT BOOTS
	TD2	90	TAXODIUM DISTICHUM / BALD CYPRESS	200 GAL.	7-8" CAL., 16-18' HT.	A.S.		
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	NATIVE/NON-NATIVE		SPACING	REMARKS
SHRUB AREAS								
	DV	2,918	DIETES VEGETA / AFRICAN IRIS	3 GAL	FULL, 1.5' HT		24" o.c.	
	HC	2,533	HAMELIA PATENS 'COMPACTA' / DWARF FIREBUSH	7 GAL.	FULL/ LOW BRANCHED, 24-28' HT. 24-30' SPRD		36" o.c.	
	MC	8,890	MUHLENBERGIA CAPILLARIS / PINK MUHLY GRASS	3 GAL	20-14' HT, 14-18' SPRD		36" o.c.	
	PA	2,416	PLUMBAGO AURICULATA / PLUMBAGO	3 GAL	FULL, 1-2' HT		36" o.c.	50 % 'IMPERIAL BLUE' 50% 'ALBA'
	SB	5,145	SPARTINA BAKERI / SAND CORDGRASS	3 GAL	FULL, 2` HT		48" o.c.	
	TD	9,394	TRIPSACUM DACTYLOIDES / FAKAHATCHEE GRASS	3 GAL	2-3' HT, 1.5' SPRD		48" o.c.	
	TF	4,199	TRIPSACUM FLORIDANUM / FLORIDA GAMAGRASS	3 GAL	1.5-2' HT, 1' SPRD		36" o.c.	
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT.	SIZE		SPACING	REMARKS
GROUND COVERS								
	HD	3,021	HELIANTHUS DEBILIS / DUNE SUNFLOWER	1 GAL.	FULL, .5' HT		24" o.c.	
	PN	103,879 SF	PASPALUM NOTATUM / BAHIA GRASS	SOD				
	PC2	2,482	PONTEDERIA CORDATA / PICKEREL WEED	BARE ROOT			24" o.c.	
	SL	2,534	SAGITTARIA / DUCK POTATO & BROADLEAF ARROWHEAD	1 GAL.	FULL		24" o.c.	50% SAGITTARIA LANCIFOLIA; 50% SAGITTARIA LATIFOLIA

*Medjool Date Palm Maintenance Note: Provide certification that trees are free of Lethal Bronzing Disease (LBD). Provide LBD testing quarterly through establishment period and regular maintenance. Follow current maintenance protocol prescribed by University of Florida Institute of Food and Agricultural Sciences (IFAS). Provide quarterly disease testing. Remove any LBD infected trees and treat adjacent palms with Oxytetracycline HCL (OTC) quarterly for 2 years. Contact the IFAS Orange County Extension office more information 407–254–9200 orange@ifas.ufl.edu

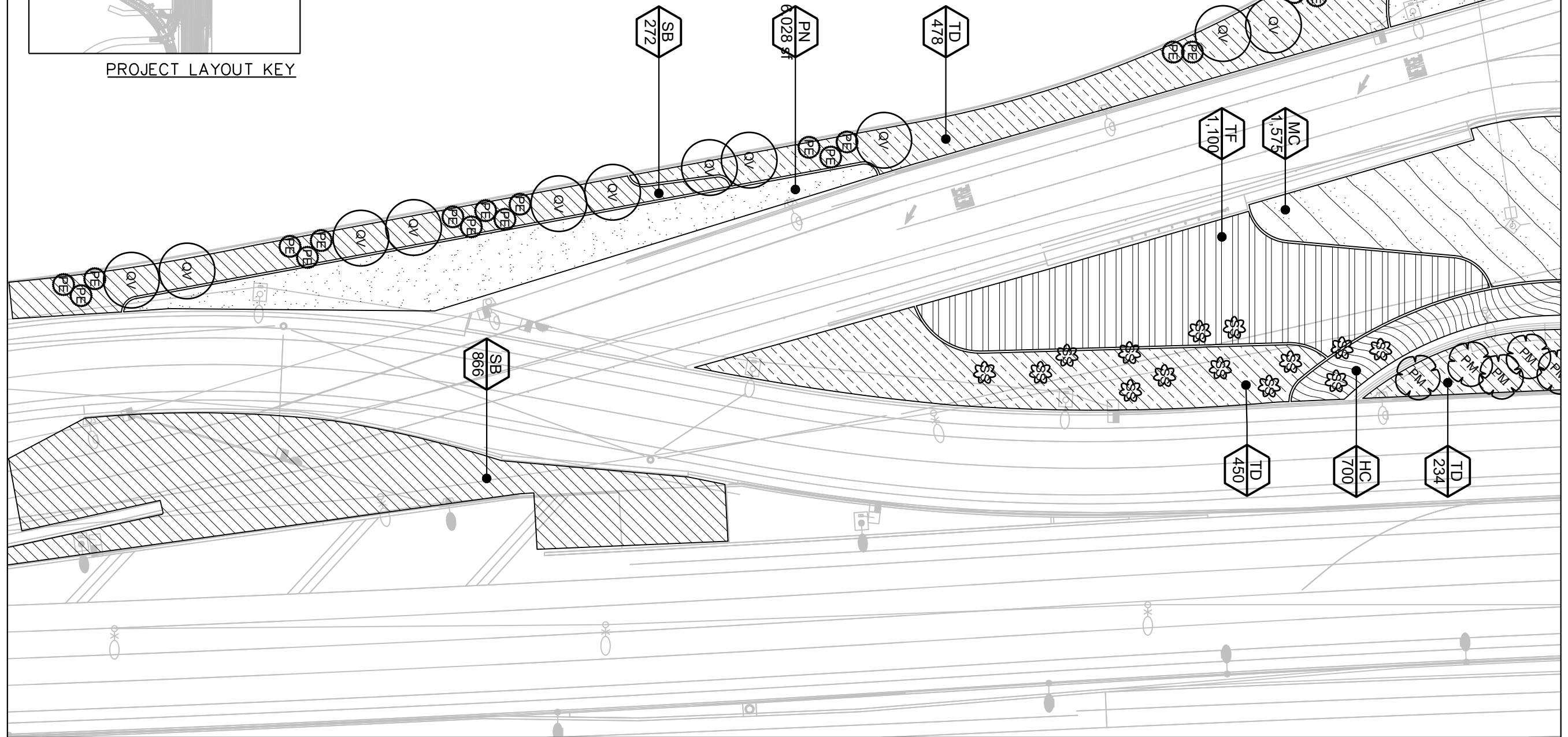
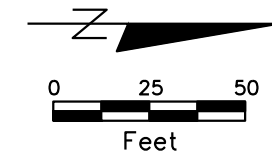
REVISIONS				PREPARED BY:  618 South Street Suite 700 Orlando, FL 32801 407.423.8398 Certificate of Authorization: EB9951 Anne G West, P.L.A LA # 6667082	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLANT SCHEDULE	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LA.00
			DRAFT – NOT FOR CONSTRUCTION						
					SR 400	ORANGE	444315–1–52–01		



PROJECT LAYOUT KEY

NOTES:

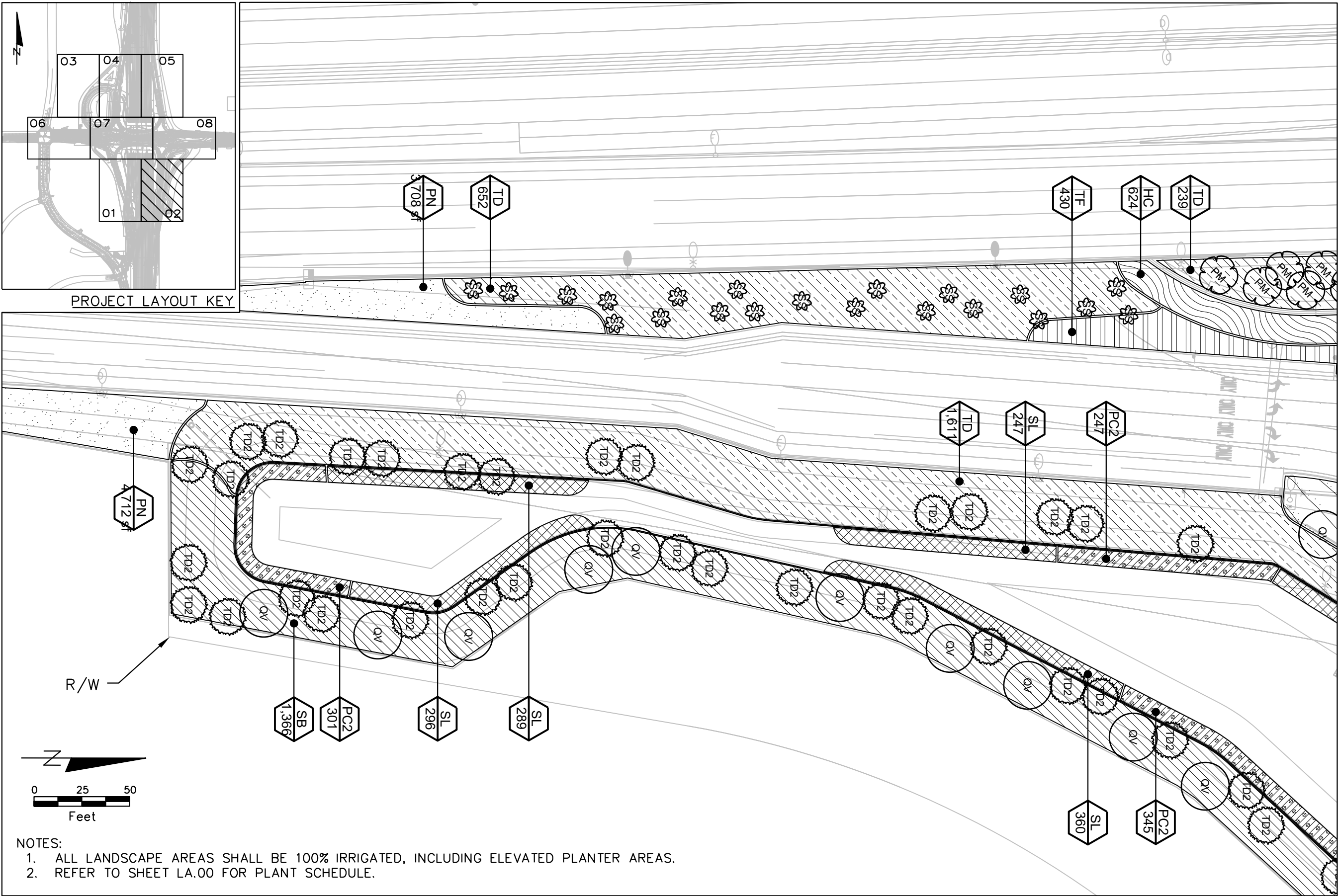
1. ALL LANDSCAPE AREAS SHALL BE 100% IRRIGATED, INCLUDING ELEVATED PLANTER AREAS.
2. REFER TO SHEET LA.00 FOR PLANT SCHEDULE.



MATCHLINE SHEET LA.07

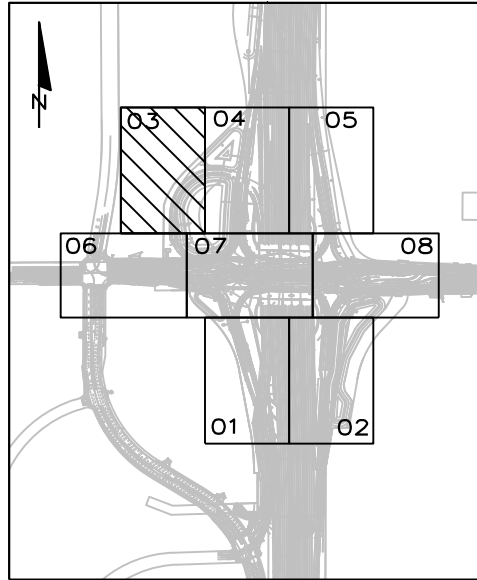
MATCHLINE SHEET LA.02

REVISIONS				PREPARED BY: COMMUNITY SOLUTIONS 618 South Street Suite 700 Orlando, FL 32801 407.423.8398 Certificate of Authorization: EB9951 Anne G. West, P.L.A. LA # 6667082	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			DRAFT - NOT FOR CONSTRUCTION		SR 400	ORANGE	444315-1-52-01		LA.01



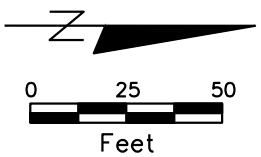
- NOTES:
- 1. ALL LANDSCAPE AREAS SHALL BE 100% IRRIGATED, INCLUDING ELEVATED PLANTER AREAS.
 - 2. REFER TO SHEET LA.00 FOR PLANT SCHEDULE.

REVISIONS				PREPARED BY: COMMUNITY SOLUTIONS 618 South Street Suite 700 Orlando, FL 32801 407.423.8398 Certificate of Authorization: EB9951 Anne G West, P.L.A LA # 6667082	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LA.02
			DRAFT – NOT FOR CONSTRUCTION		SR 400	ORANGE	444315–1–52–01		

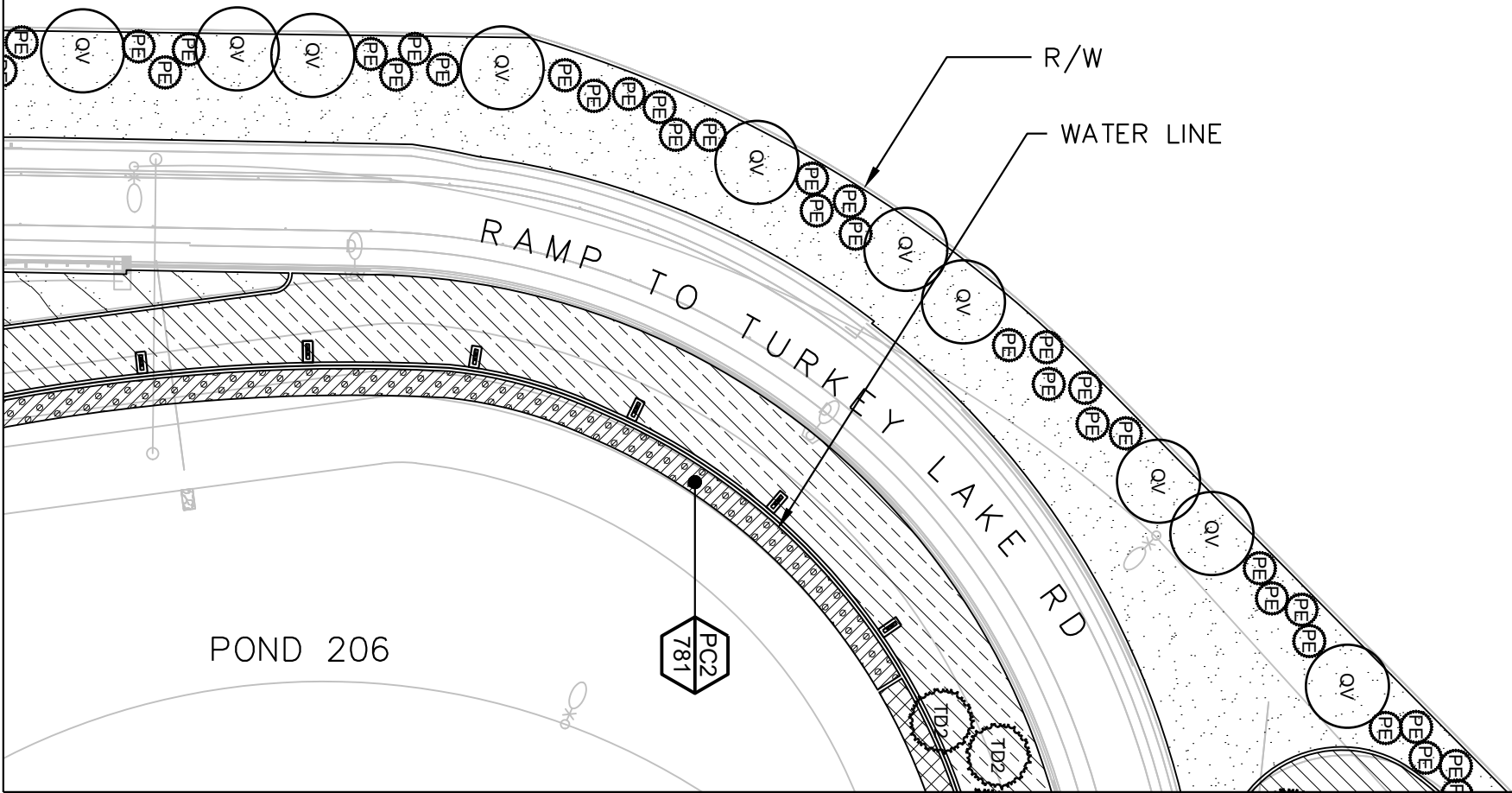


PROJECT LAYOUT KEY

- NOTES:
- 1. ALL LANDSCAPE AREAS SHALL BE 100% IRRIGATED, INCLUDING ELEVATED PLANTER AREAS.
 - 2. REFER TO SHEET LA.00 FOR PLANT SCHEDULE.



MATCHLINE SHEET LA.06



MATCHLINE SHEET LA.04

REVISIONS				PREPARED BY: COMMUNITY SOLUTIONS 618 South Street Suite 700 Orlando, FL 32801 407.423.8398 Certificate of Authorization: EB9951 Anne G. West, P.L.A. LA # 6667082	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			DRAFT - NOT FOR CONSTRUCTION		SR 400	ORANGE	444315-1-52-01		LA.03

MATCHLINE SHEET LA.03

NOTES:

1. ALL LANDSCAPE AREAS SHALL BE 100% IRRIGATED, INCLUDING ELEVATED PLANTER AREAS.
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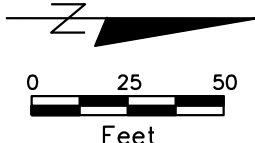
POND 206

RAMP TO TURKEY LAKE RD

LAKE RD

POND 206E

LIMITED ACCESS R/W

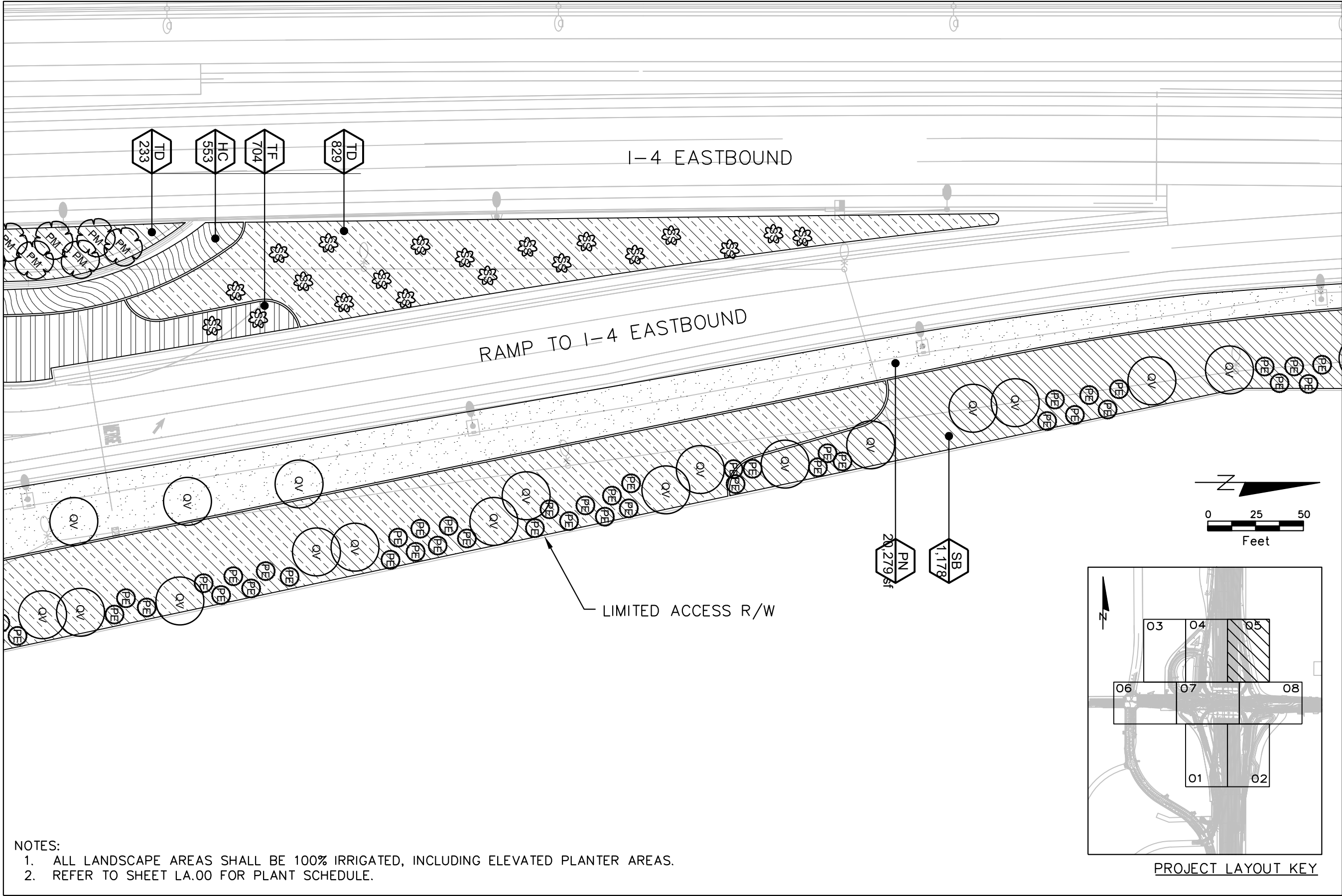


MATCHLINE STA. 00+00 SHEET LA.07

MATCHLINE SHEET LA.05

REVISIONS				PREPARED BY: COMMUNITY SOLUTIONS 618 South Street Suite 700 Orlando, FL 32801 407-423-8398 Certificate of Authorization: EB9951 Anne G West, P.L.A LA # 6667082	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LA.04
			DRAFT – NOT FOR CONSTRUCTION		SR 400	ORANGE	444315–1–52–01		

MATCHLINE SHEET LA.08



REVISIONS				PREPARED BY: COMMUNITY SOLUTIONS 618 South Street Suite 700 Orlando, FL 32801 407.423.8398 Certificate of Authorization: EB9951 Anne G. West, P.L.A. LA # 6667082	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO. LA.05
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			DRAFT - NOT FOR CONSTRUCTION		SR 400	ORANGE	444315-1-52-01		

NOTES:

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2. REFER TO SHEET LA.00 FOR PLANT SCHEDULE.

LIMITED ACCESS R/W

FENCED EQUIPMENT YARD WITH CONC.
PAD AND APRON FOR FOUNTAIN,
LIGHTING, AND IRRIGATION SYSTEMS

R/W

SAND LAKE ROAD

TURKEY LAKE ROAD

PROJECT LAYOUT KEY

A scale bar with markings at 0, 25, and 50 feet. The bar is divided into four equal segments, each representing 12.5 feet. The first segment is white, the second is black, the third is white, and the fourth is black.

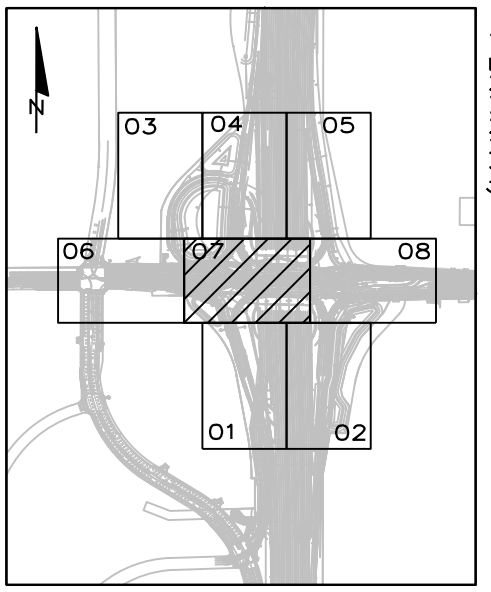
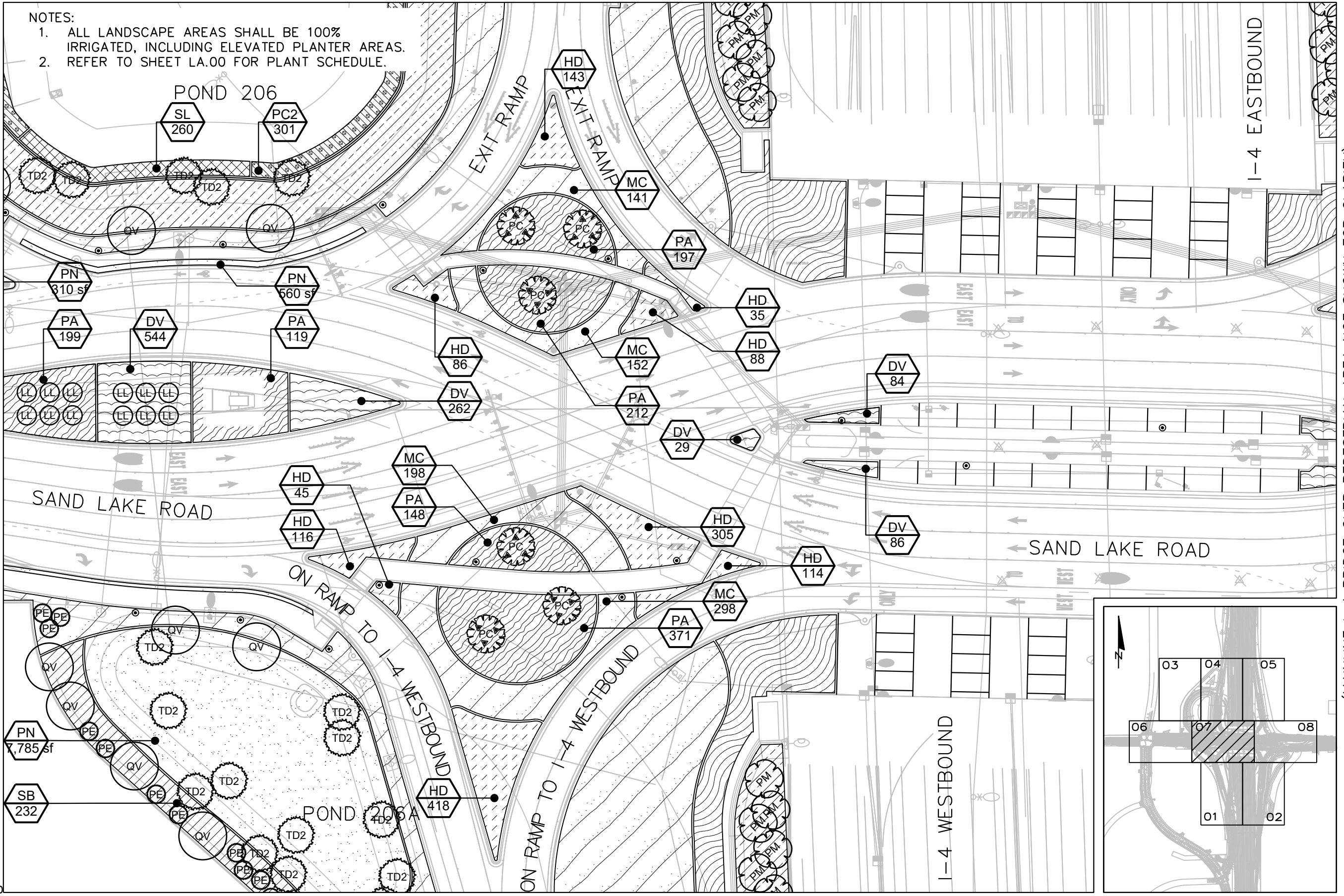
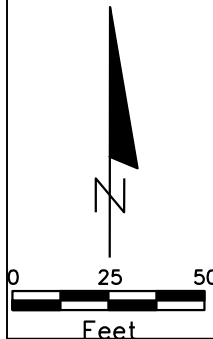
MATCHLINE SHEET LA.01

REVISIONS				PREPARED BY: COMMUNITY SOLUTIONS 618 South Street Suite 700 Orlando, FL 32801 407.423.8398 Certificate of Authorization: EB9951 Anne G West, P.L.A LA # 6667082	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			DRAFT – NOT FOR CONSTRUCTION		SR 400	ORANGE	444315–1–52–01		LA.06

- NOTES:
- 1. ALL LANDSCAPE AREAS SHALL BE 100% IRRIGATED, INCLUDING ELEVATED PLANTER AREAS.
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MATCHLINE STA. 00+00 SHEET LA.06

(MAINLINE I-4 BRIDGE OVER PEDESTRIAN AREA NOT SHOWN FOR CLARITY)
MATCHLINE SHEET LA2.08



MATCHLINE SHEET LA.01

MATCHLINE SHEET LA.02

PROJECT LAYOUT KEY

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
			DRAFT - NOT FOR CONSTRUCTION

PREPARED BY:
COMMUNITY SOLUTIONS

618 South Street
Suite 700
Orlando, FL 32801
407.423.8398
Certificate of Authorization:
EB9951
Anne G West, P.L.A
LA # 6667082

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

LANDSCAPE PLAN

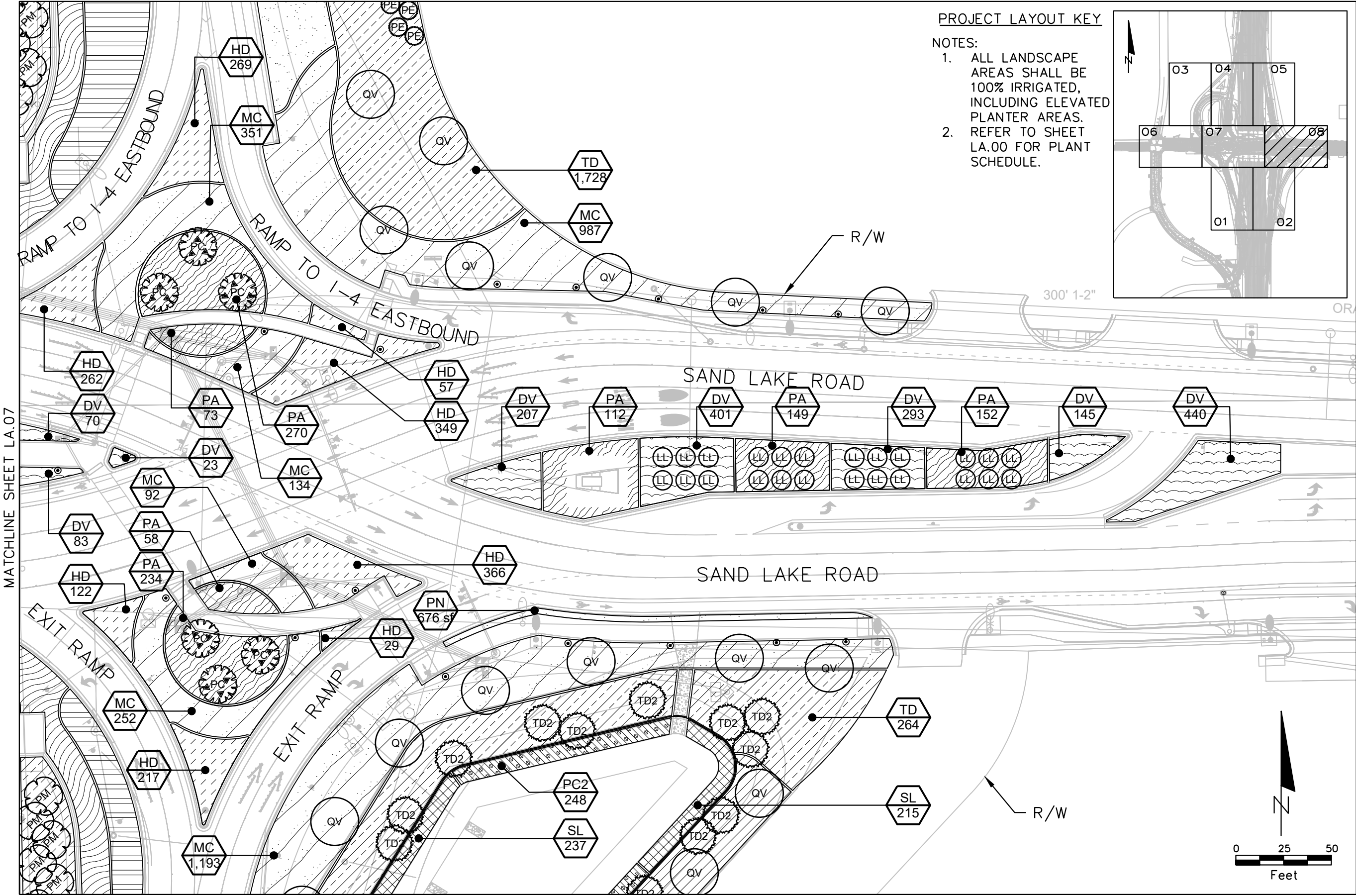
\$USERS\$

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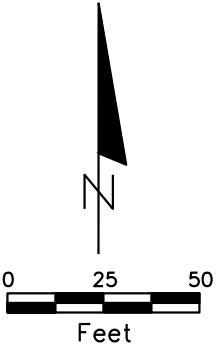
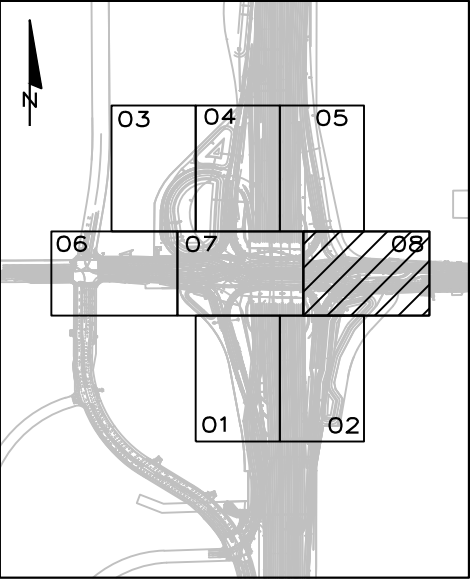
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SHEET NO.
LA.07



PROJECT LAYOUT KEY

- NOTES:
1. ALL LANDSCAPE AREAS SHALL BE 100% IRRIGATED, INCLUDING ELEVATED PLANTER AREAS.
 2. REFER TO SHEET LA.00 FOR PLANT SCHEDULE.

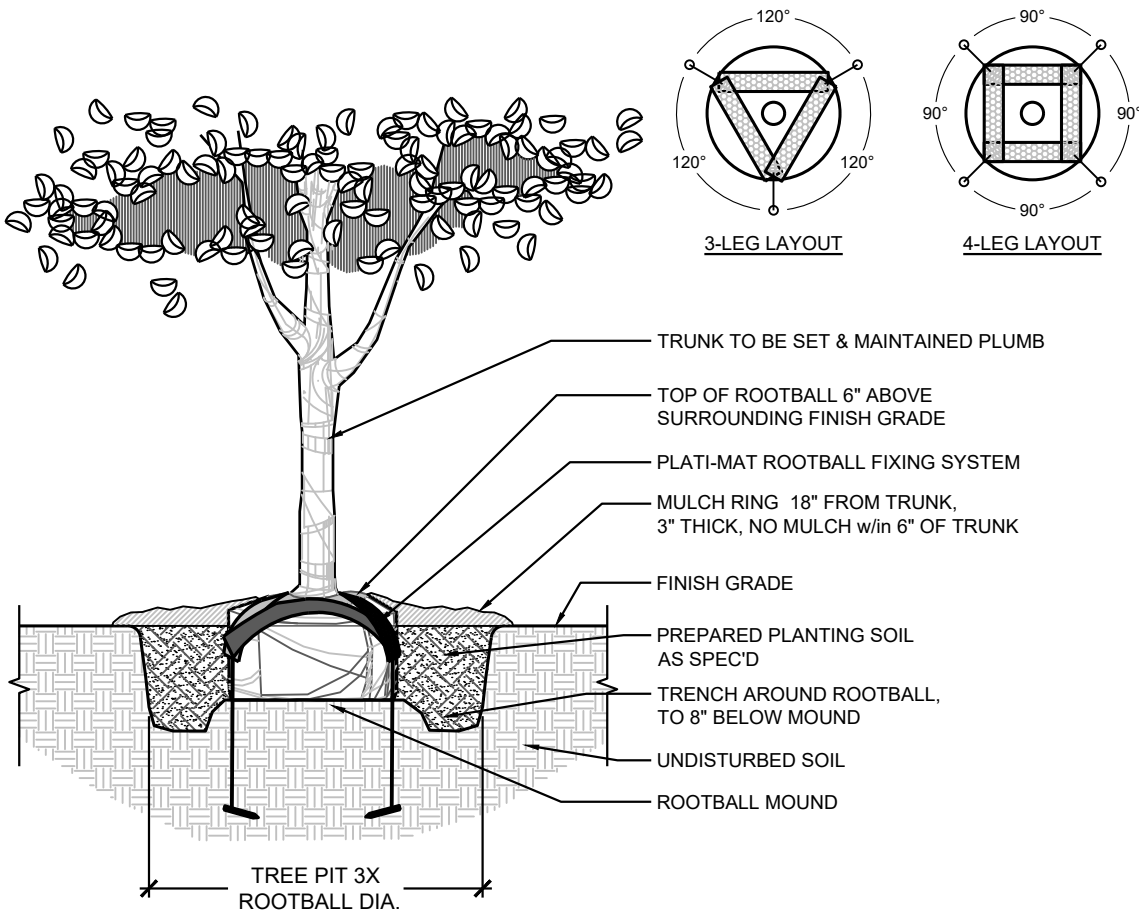


MATCHLINE SHEET LA.02

REVISIONS				PREPARED BY: COMMUNITY SOLUTIONS 618 South Street Suite 700 Orlando, FL 32801 407.423.8398 Certificate of Authorization: EB9951 Anne G. West, P.L.A. LA # 6667082	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE PLAN	SHEET NO. LA.01
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			DRAFT - NOT FOR CONSTRUCTION		SR 400	ORANGE	444315-1-52-01		

NOTES:

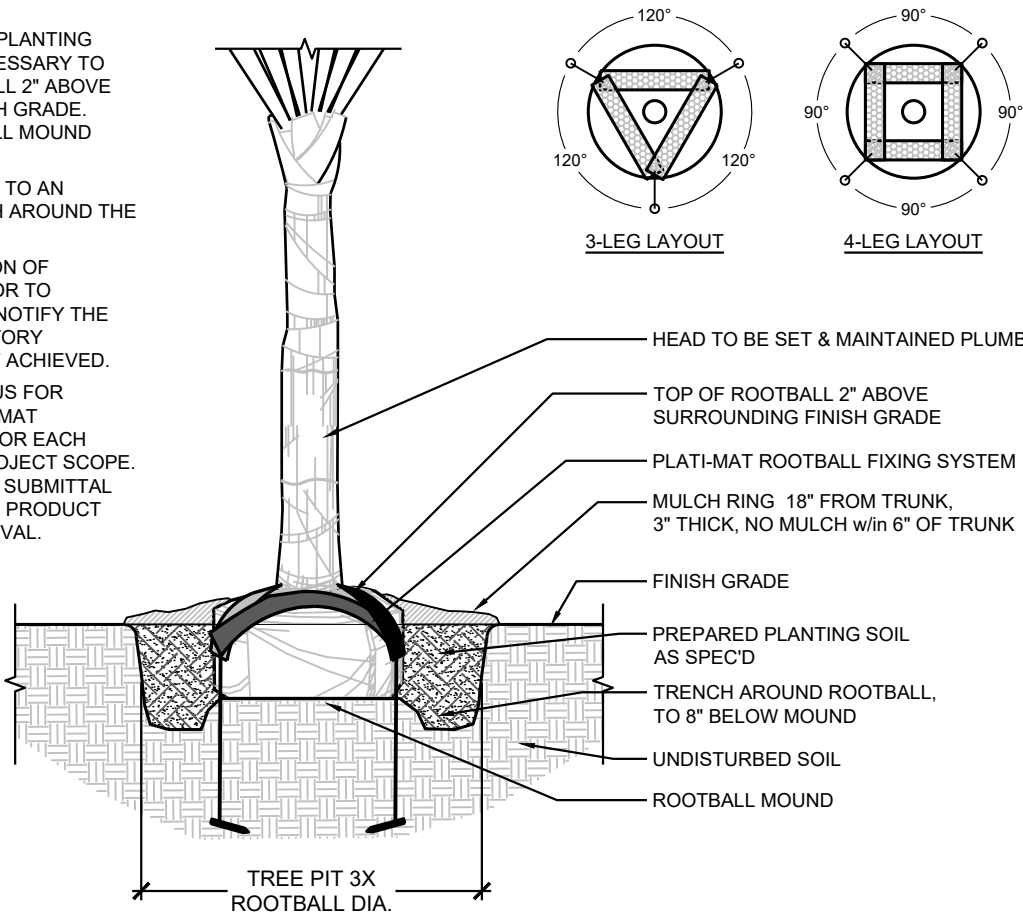
- 1. EXCAVATE OVERALL PLANTING HOLE TO DEPTH NECESSARY TO SET TOP OF ROOTBALL 6" ABOVE SURROUNDING FINISH GRADE. THIS IS THE ROOTBALL MOUND ELEVATION.
- 2. EXCAVATE A TRENCH TO AN ADDITIONAL 8" DEPTH AROUND THE ROOTBALL MOUND.
- 3. ASSURE PERCOLATION OF PLANTING HOLE PRIOR TO SETTING THE TREE. NOTIFY THE OWNER IN WRITING IF SATISFACTORY PERCOLATION IS NOT ACHIEVED.
- 4. CONSULT PLATIPUS-US FOR APPROPRIATE PLATI-MAT PRODUCT SPEC/KIT FOR EACH TREE SIZE IN THE PROJECT SCOPE. PROVIDE A PRODUCT SUBMITTAL FOR EACH SEPARATE PRODUCT SPEC/KIT FOR APPROVAL.



1 LARGE TREE PLANTING DETAIL
N.T.S.

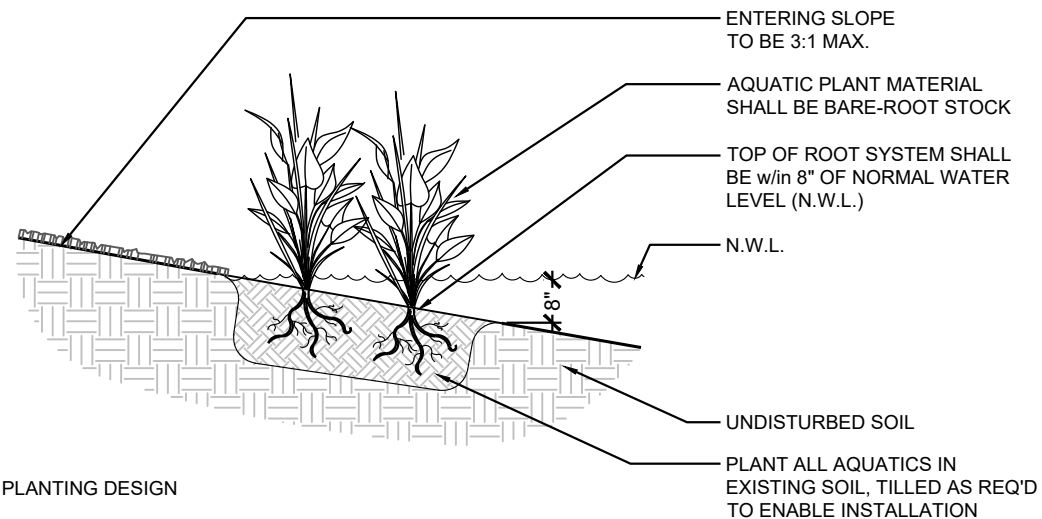
NOTES:

- 1. EXCAVATE OVERALL PLANTING HOLE TO DEPTH NECESSARY TO SET TOP OF ROOTBALL 2" ABOVE SURROUNDING FINISH GRADE. THIS IS THE ROOTBALL MOUND ELEVATION.
- 2. EXCAVATE A TRENCH TO AN ADDITIONAL 8" DEPTH AROUND THE ROOTBALL MOUND.
- 3. ASSURE PERCOLATION OF PLANTING HOLE PRIOR TO SETTING THE TREE. NOTIFY THE OWNER IF SATISFACTORY PERCOLATION IS NOT ACHIEVED.
- 4. CONSULT PLATIPUS-US FOR APPROPRIATE PLATI-MAT PRODUCT SPEC/KIT FOR EACH TREE SIZE IN THE PROJECT SCOPE. PROVIDE A PRODUCT SUBMITTAL FOR EACH SEPARATE PRODUCT SPEC/KIT FOR APPROVAL.



2 PALM TREE PLANTING DETAIL
N.T.S.

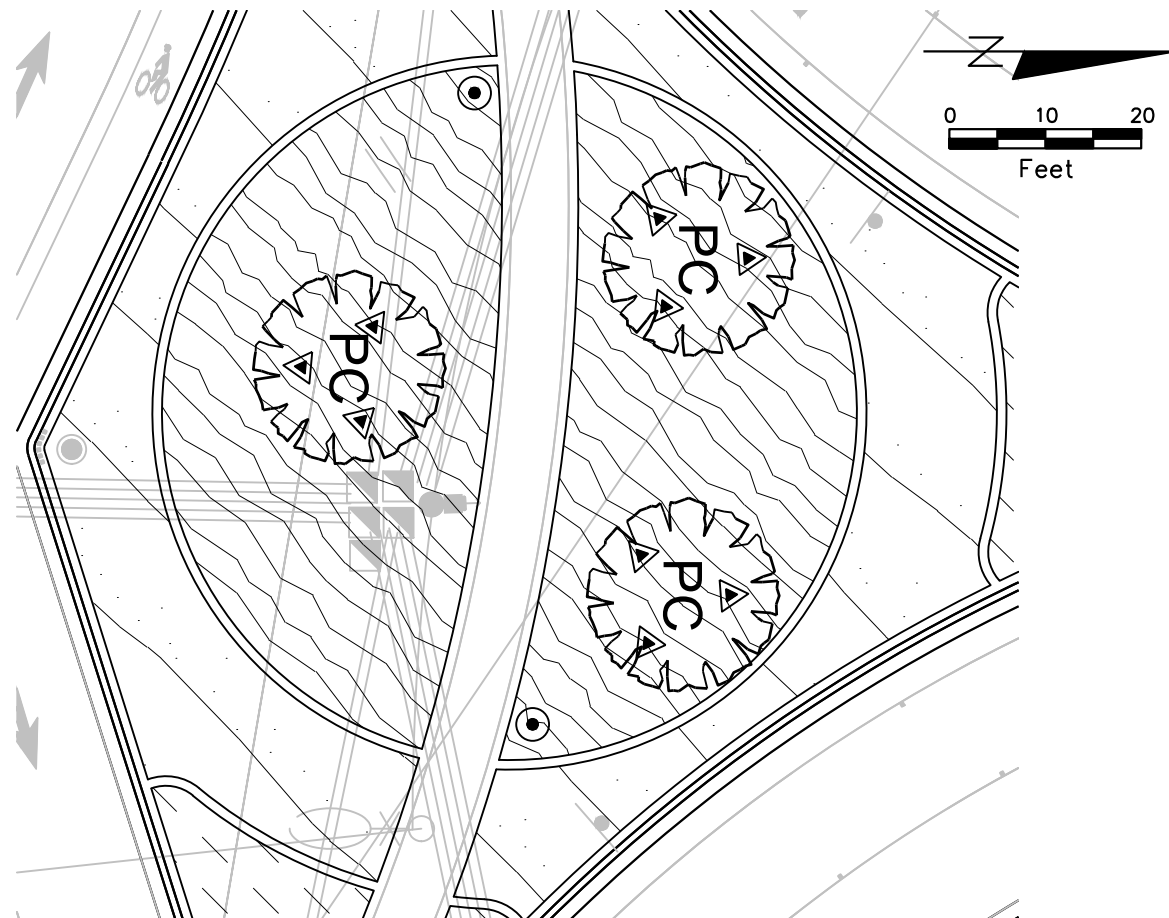
REVISIONS				PREPARED BY: COMMUNITY SOLUTIONS 618 South Street Suite 700 Orlando, FL 32801 407.423.8398 Certificate of Authorization: EB9951 Anne G. West, P.L.A LA # 6667082	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			DRAFT - NOT FOR CONSTRUCTION		SR 400	ORANGE	444315-1-52-01		LA.09



NOTES:

1. SEE PLANS FOR PLANTING DESIGN AND LAYOUT.
2. SEE PLANS FOR GRADING AND DRAINAGE.

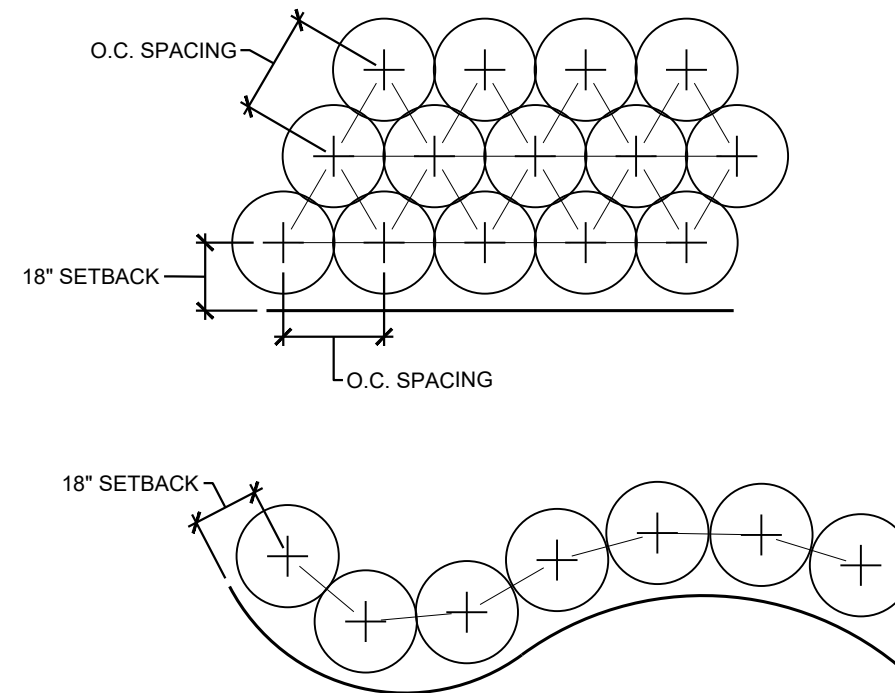
1 AQUATIC PLANT DETAIL
N.T.S.



3 CANARY ISLAND DATE PALM PLANTING ENLARGEMENT
N.T.S.

NOTES:

1. THE PERIMETER OF ALL CURVED PLANTING BEDS SHALL BE PLANTED AT WITH A ROW OF PLANTS AS SHOWN IN THIS DETAIL, AT THE O.C. SPACING SHOWN IN THE PLANT LIST.
2. INTERIOR PORTIONS OF EACH BED SHALL BE PLANTED IN A TRIANGULAR PATTERN AS SHOWN IN THIS DETAIL, AT THE O.C. SPACING SHOWN IN THE PLANT LIST.
3. SETBACKS ARE APPLICABLE AGAINST ALL HARDSCAPE SURFACES AND SOD EDGES.



2 TRIANGULAR PLANT SPACING DETAIL (AT MEDIAN)
N.T.S.

REVISIONS				PREPARED BY: COMMUNITY SOLUTIONS 618 South Street Suite 700 Orlando, FL 32801 407.423.8398 Certificate of Authorization: EB9951 Anne G West, P.L.A LA # 6667082	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LANDSCAPE DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						LA.10
			DRAFT – NOT FOR CONSTRUCTION			SR 400	ORANGE		444315–1–52–01

TREES



Natchez Crape Myrtle



Canary Date Palm



Medjool Date Palm



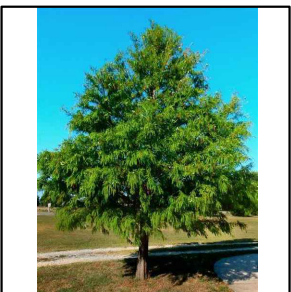
Slash Pine



Live Oak



Cabbage Palm



Bald Cypress

SHRUBS AND GROUNDCOVER



White African Iris



Dwarf Firebush



Blue Plumbago



White Plumbago



Pink Muhly Grass



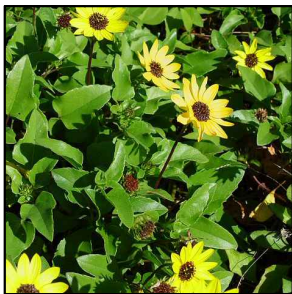
Sand Cord Grass



Fakahatchee Grass



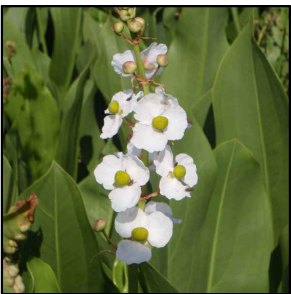
Florida Gamagrass



Beach Sunflower



Pickerel Weed

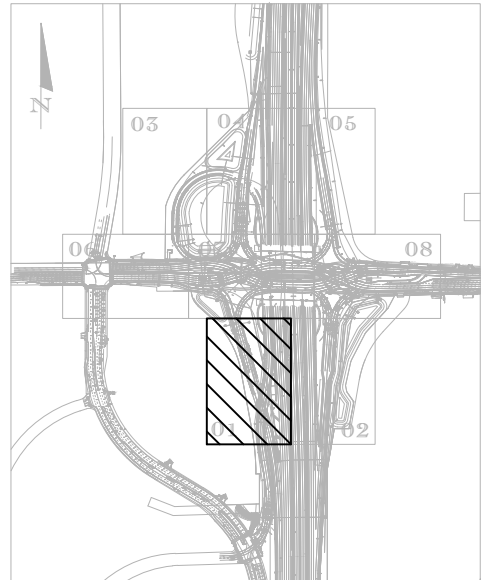


Duck Potato

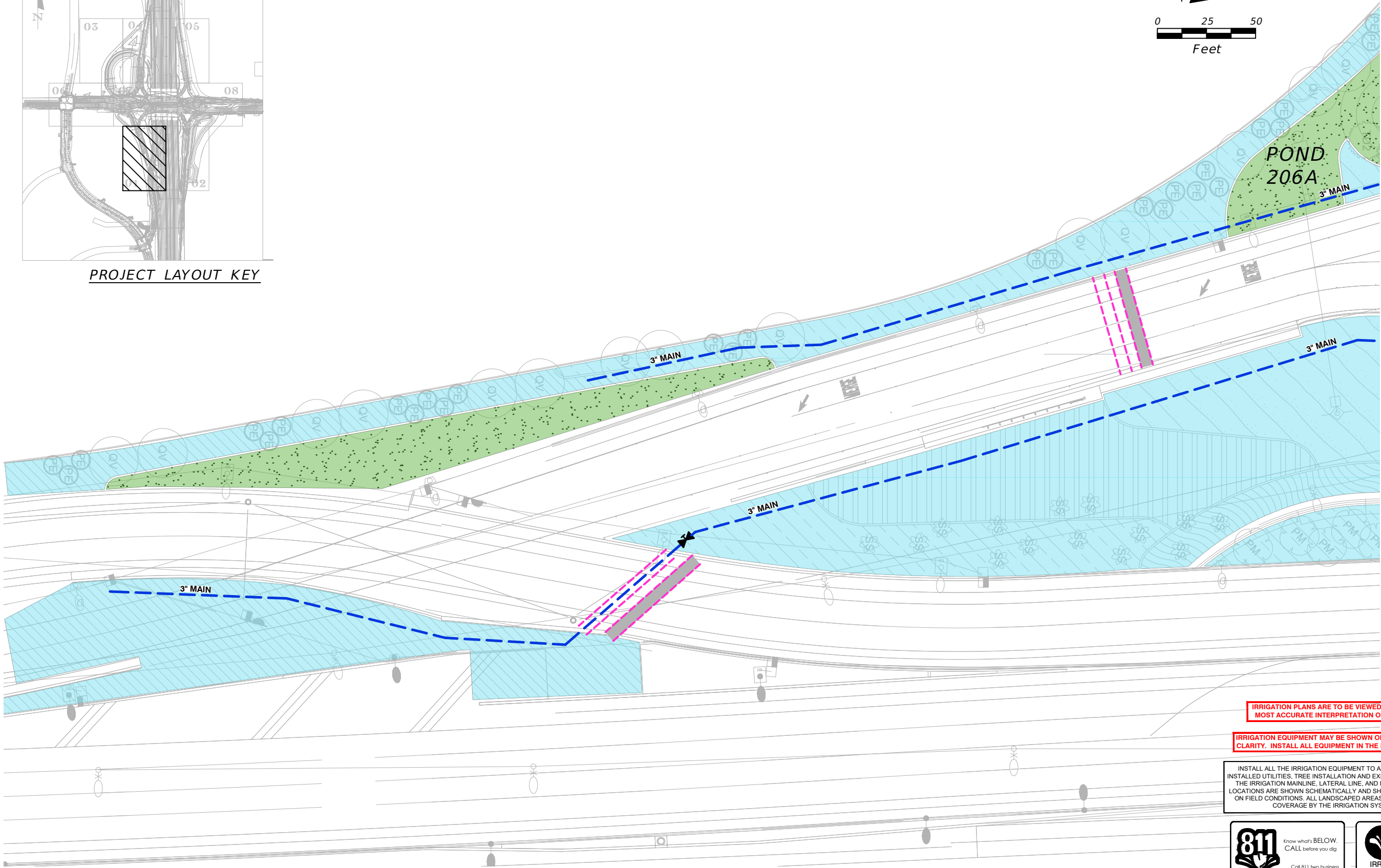
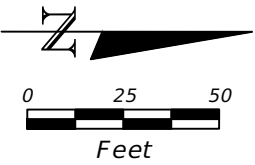


Broadleaf Arrowhead

REVISIONS				PREPARED BY:  618 South Street Suite 700 Orlando, FL 32801 407.423.8398 Certificate of Authorization: EB9951 Anne G West, P.L.A LA # 6667082	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLANT IMAGES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
			DRAFT – NOT FOR CONSTRUCTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	444315–1–52–01		
					\$USERS\$	\$DATES\$	\$TIMES\$	\$FILES\$	LA.11



PROJECT LAYOUT KEY



MATCHLINE SHEET IR.07

IRRIGATION PLANS ARE TO BE VIEWED IN COLOR FOR MOST ACCURATE INTERPRETATION OF THE DESIGN.

IRRIGATION EQUIPMENT MAY BE SHOWN OFFSET FOR GRAPHIC CLARITY. INSTALL ALL EQUIPMENT IN THE LANDSCAPED AREA.

INSTALL ALL THE IRRIGATION EQUIPMENT TO AVOID CONFLICTS WITH INSTALLED UTILITIES, TREE INSTALLATION AND EXISTING TREES TO REMAIN. THE IRRIGATION MAINLINE, LATERAL LINE, AND IRRIGATION SPRINKLER LOCATIONS ARE SHOWN SCHEMATICALLY AND SHALL BE ADJUSTED BASED ON FIELD CONDITIONS. ALL LANDSCAPED AREAS ARE TO RECEIVE 100% COVERAGE BY THE IRRIGATION SYSTEM (TYP.)



MATCHLINE SHEET IR.02

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



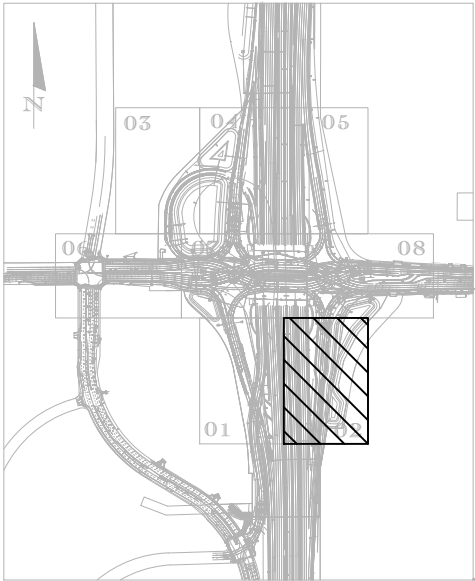
PREPARED BY:
618 South Street
Suite 700
Orlando, FL 32801
407.423.8398
Certificate of Authorization:
EB9951
Anne G West, P.L.A
LA # 6667082

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

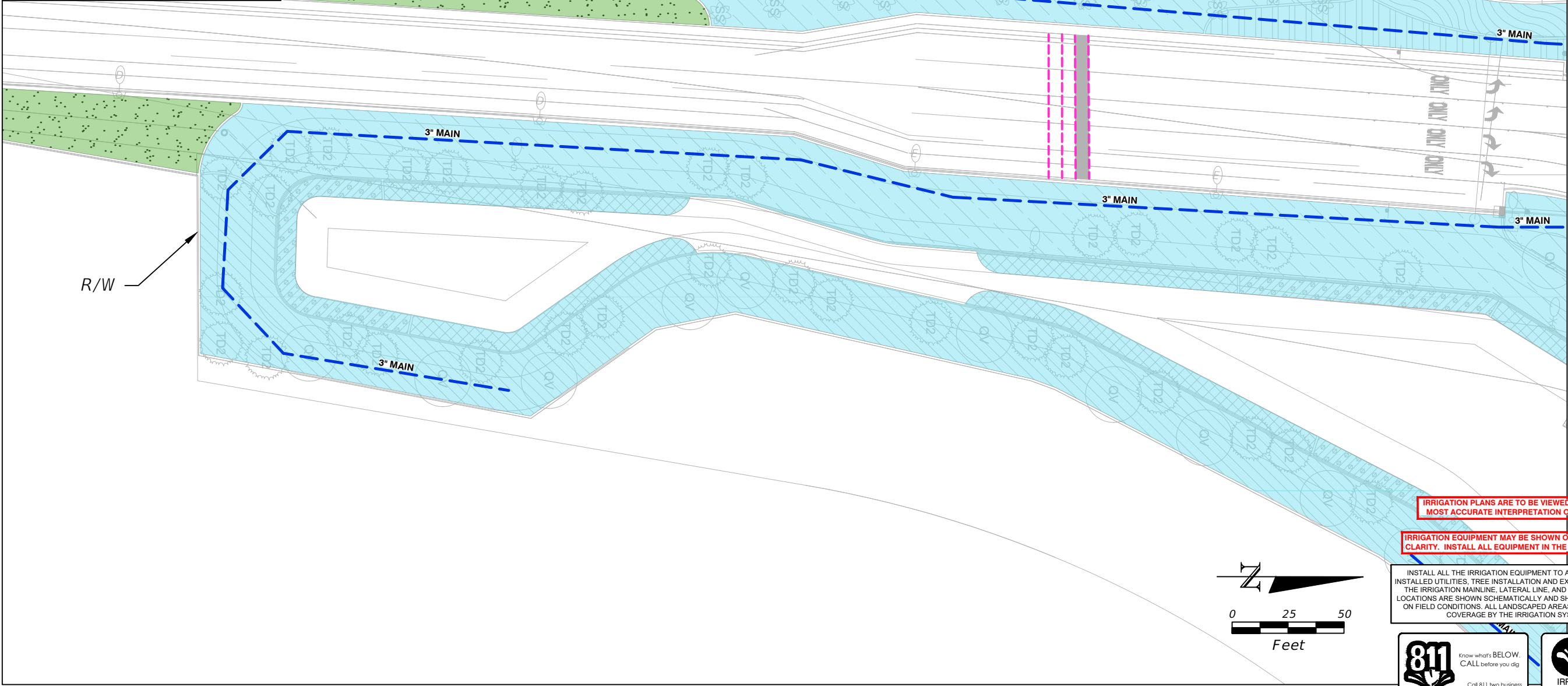
IRRIGATION PLAN

SHEET NO.

IR.01



PROJECT LAYOUT KEY



IRRIGATION PLANS ARE TO BE VIEWED IN COLOR FOR MOST ACCURATE INTERPRETATION OF THE DESIGN.

IRRIGATION EQUIPMENT MAY BE SHOWN OFFSET FOR GRAPHIC CLARITY. INSTALL ALL EQUIPMENT IN THE LANDSCAPED AREA.

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

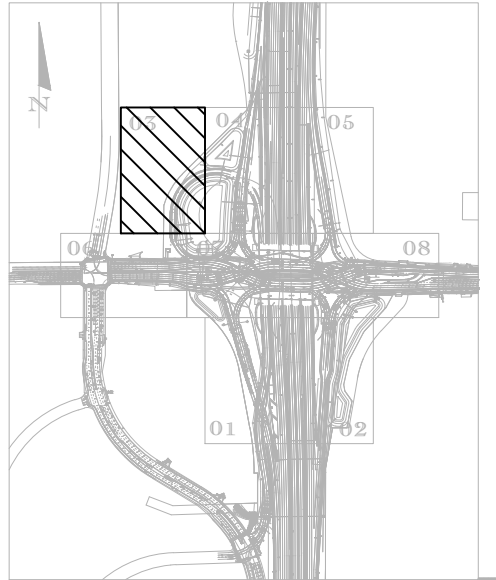
PREPARED BY:
COMMUNITY SOLUTIONS

618 South Street
Suite 700
Orlando, FL 32801
407.423.8398
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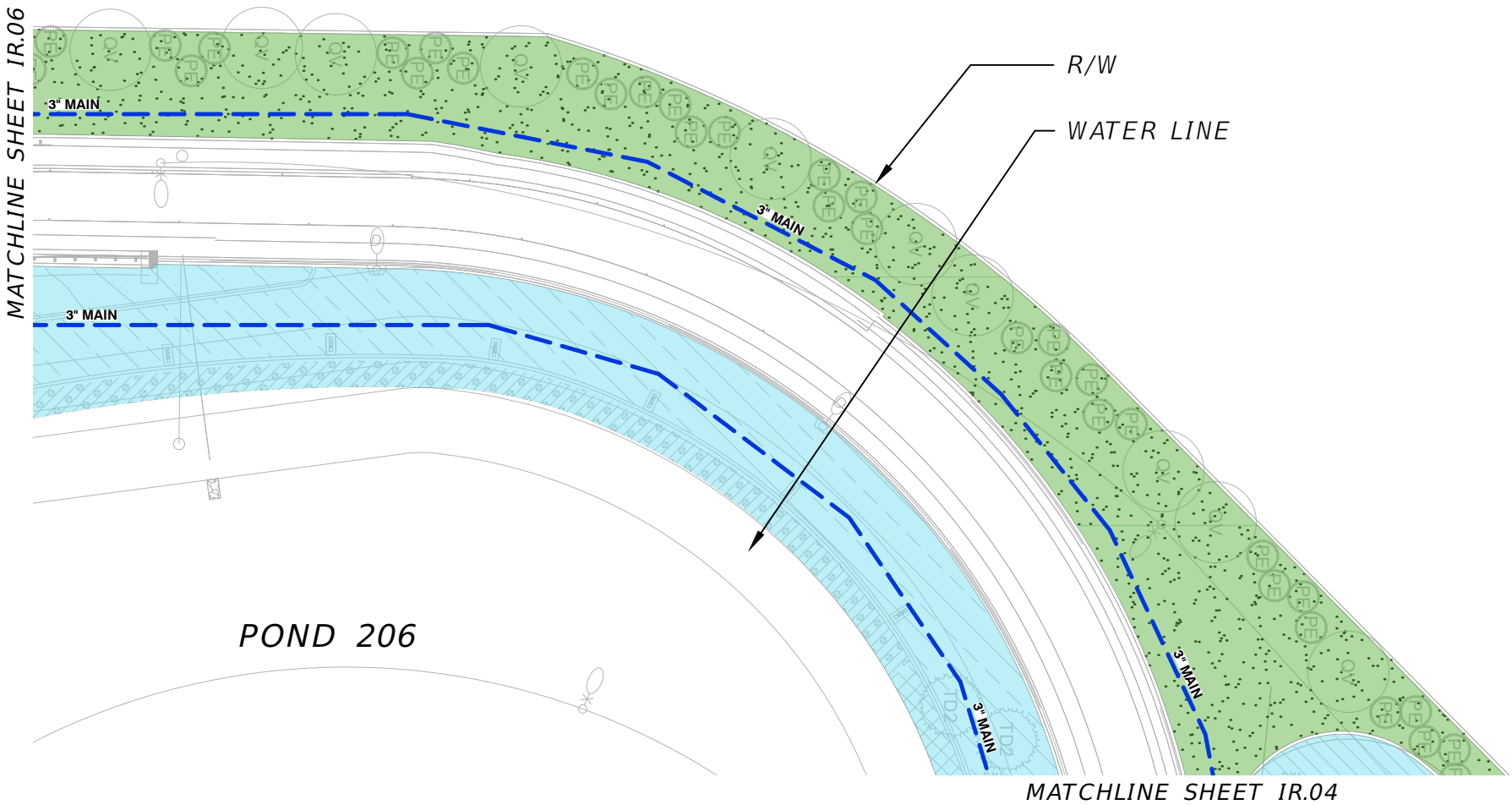
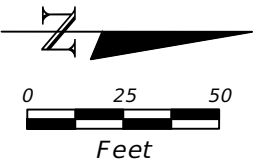
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

IRRIGATION PLAN

SHEET NO.
IR.02



PROJECT LAYOUT KEY



IRRIGATION PLANS ARE TO BE VIEWED IN COLOR FOR MOST ACCURATE INTERPRETATION OF THE DESIGN.

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PREPARED BY:

COMMUNITY SOLUTIONS

618 South Street
Suite 700
Orlando, FL 32801
407.423.8398
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Anne G West, P.L.A
LA # 6667082

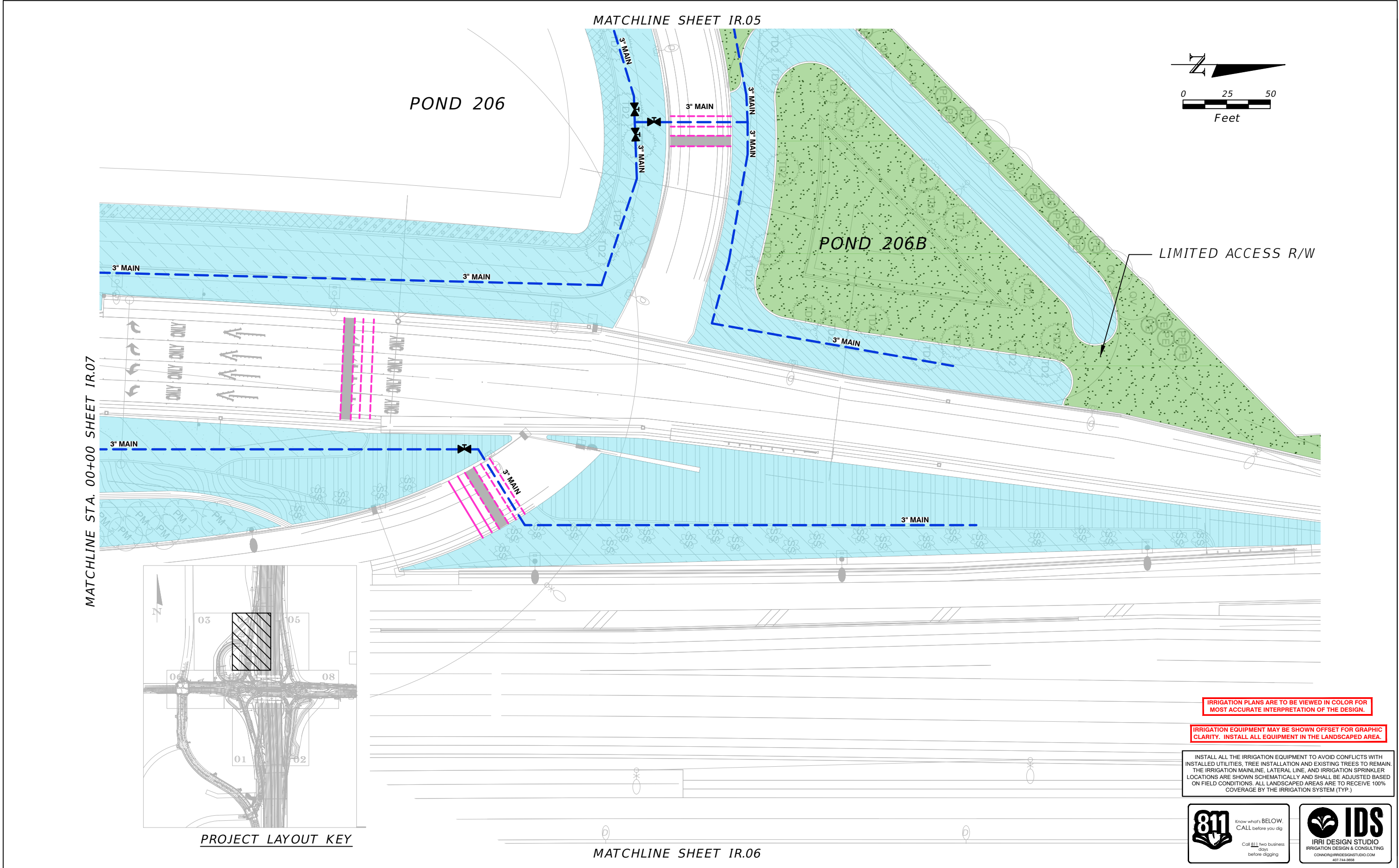
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

IRRIGATION PLAN

SHEET
NO.

IR.03



IRRIGATION PLANS ARE TO BE VIEWED IN COLOR FOR MOST ACCURATE INTERPRETATION OF THE DESIGN.

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PREPARED BY:
COMMUNITY SOLUTIONS

618 South Street
Suite 700
Orlando, FL 32801
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Certificate of Authorization:
EB9951
Anne G West, P.L.A
LA # 6667082

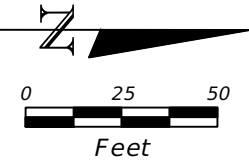
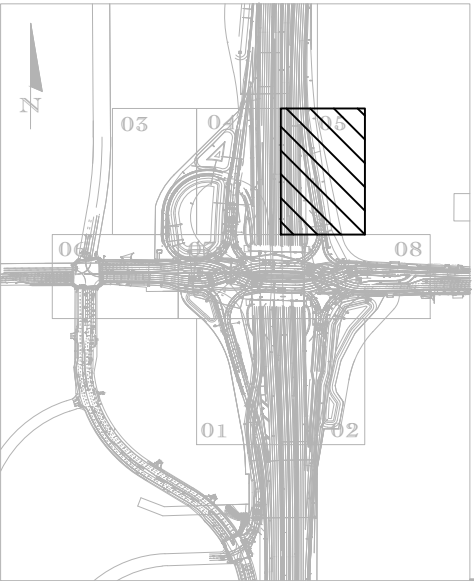
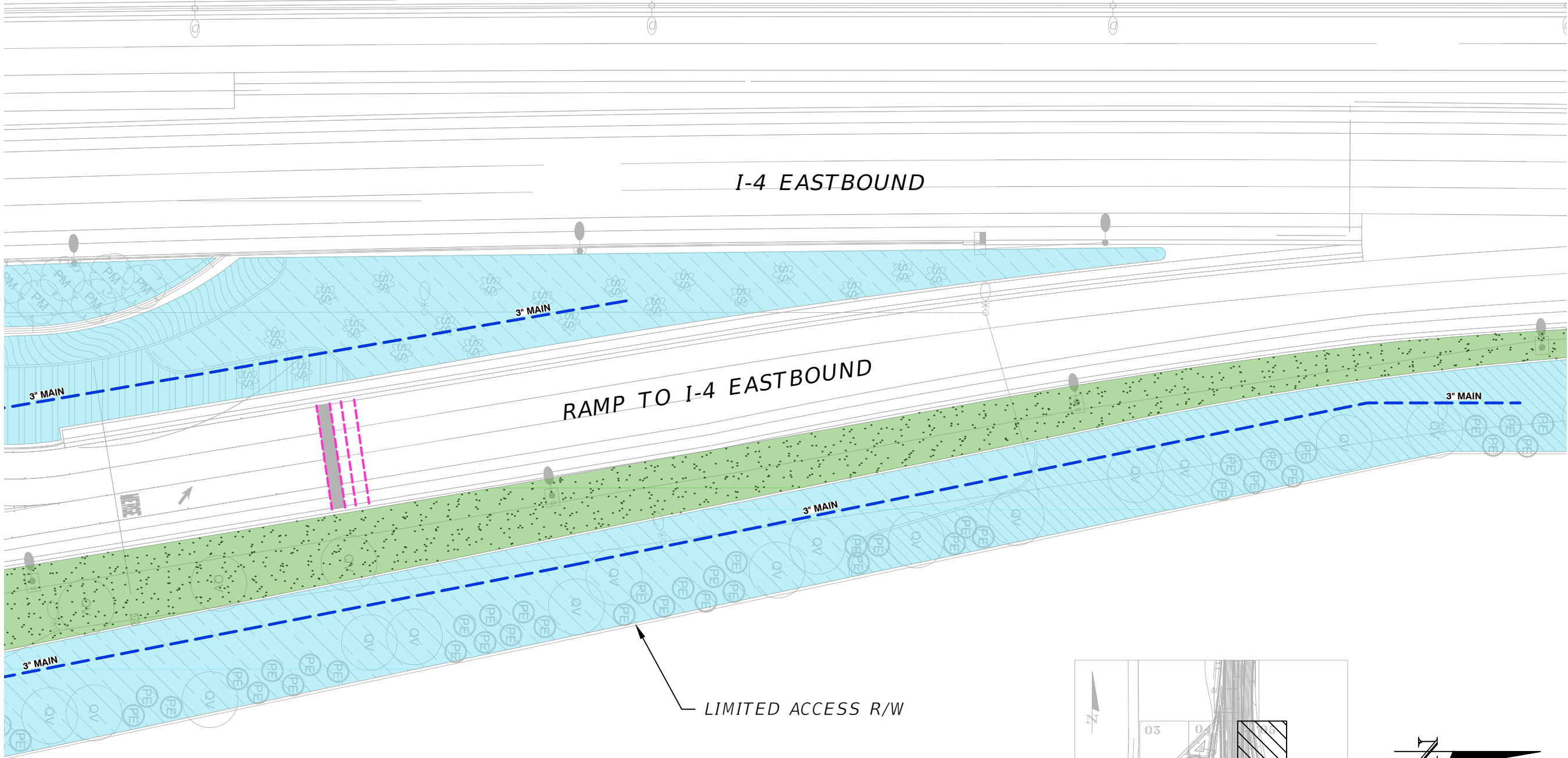
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

IRRIGATION PLAN

SHEET NO.

IR.04

MATCHLINE SHEET IR.08



IRRIGATION PLANS ARE TO BE VIEWED IN COLOR FOR MOST ACCURATE INTERPRETATION OF THE DESIGN.

IRRIGATION EQUIPMENT MAY BE SHOWN OFFSET FOR GRAPHIC CLARITY. INSTALL ALL EQUIPMENT IN THE LANDSCAPED AREA.

INSTALL ALL THE IRRIGATION EQUIPMENT TO AVOID CONFLICTS WITH INSTALLED UTILITIES, TREE INSTALLATION AND EXISTING TREES TO REMAIN. THE IRRIGATION MAINLINE, LATERAL LINE, AND IRRIGATION SPRINKLER LOCATIONS ARE SHOWN SCHEMATICALLY AND SHALL BE ADJUSTED BASED ON FIELD CONDITIONS. ALL LANDSCAPED AREAS ARE TO RECEIVE 100% COVERAGE BY THE IRRIGATION SYSTEM (TYP.)



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

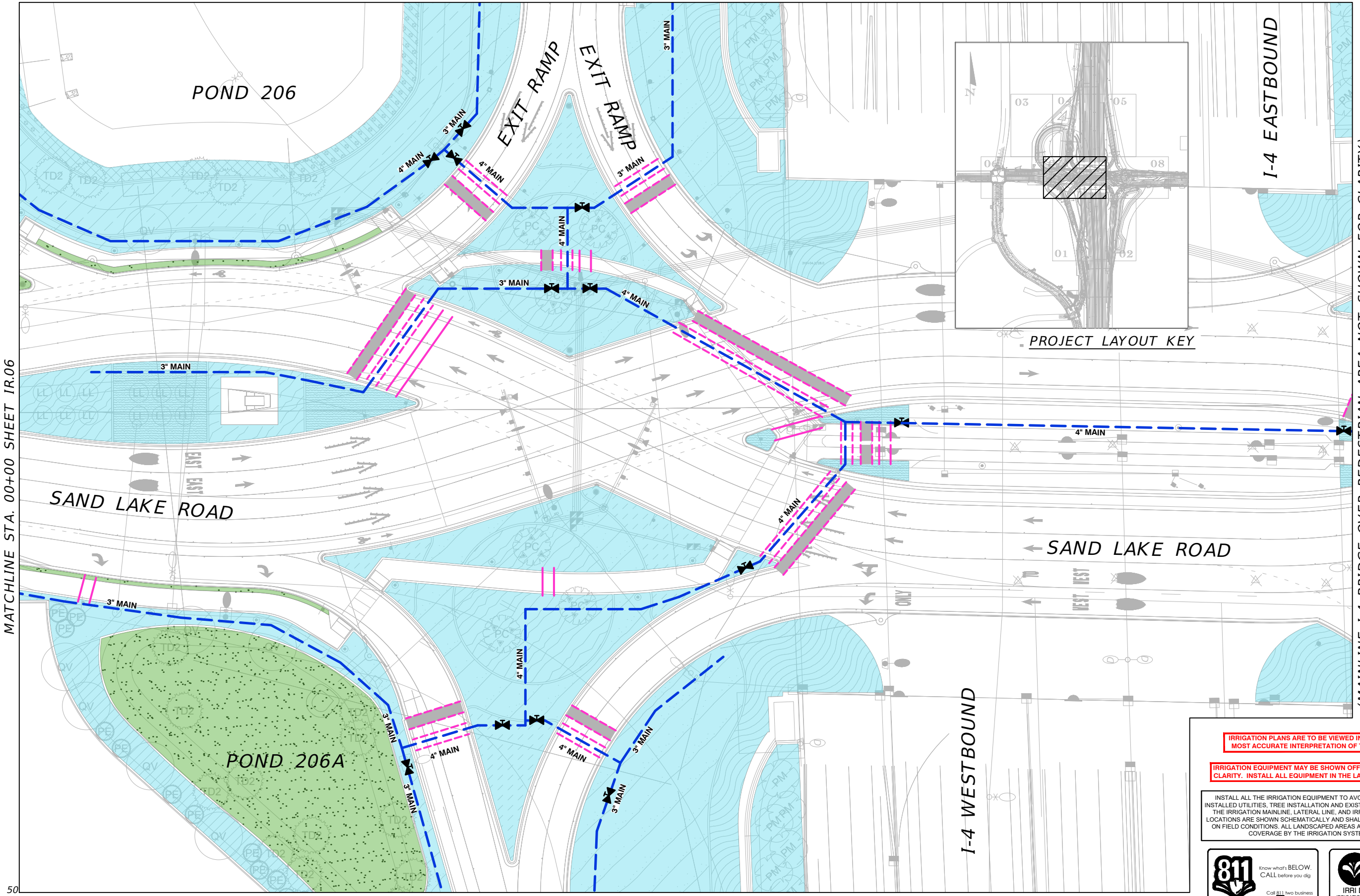
PREPARED BY:
COMMUNITY SOLUTIONS

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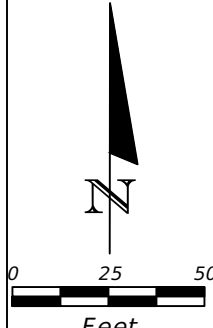
IRRIGATION PLAN

SHEET NO.
IR.05



MATCHLINE STA. 00+00 SHEET IR.06

(MAINLINE I-4 BRIDGE OVER PEDESTRIAN AREA NOT SHOWN FOR CLARITY) MATCHLINE SHEET IR.08



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INSTALL ALL THE IRRIGATION EQUIPMENT TO AVOID CONFLICTS WITH INSTALLED UTILITIES, TREE INSTALLATION AND EXISTING TREES TO REMAIN. THE IRRIGATION MAINLINE, LATERAL LINE, AND IRRIGATION SPRINKLER LOCATIONS ARE SHOWN SCHEMATICALLY AND SHALL BE ADJUSTED BASED ON FIELD CONDITIONS. ALL LANDSCAPED AREAS ARE TO RECEIVE 100% COVERAGE BY THE IRRIGATION SYSTEM (TYP.)

Know what's BELOW. CALL before you dig. Call 811 two business days before digging.

IRRI DESIGN STUDIO IRRIGATION DESIGN & CONSULTING CONNOR@IRRIDESIGNSTUDIO.COM 407.744.3658

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PREPARED BY:

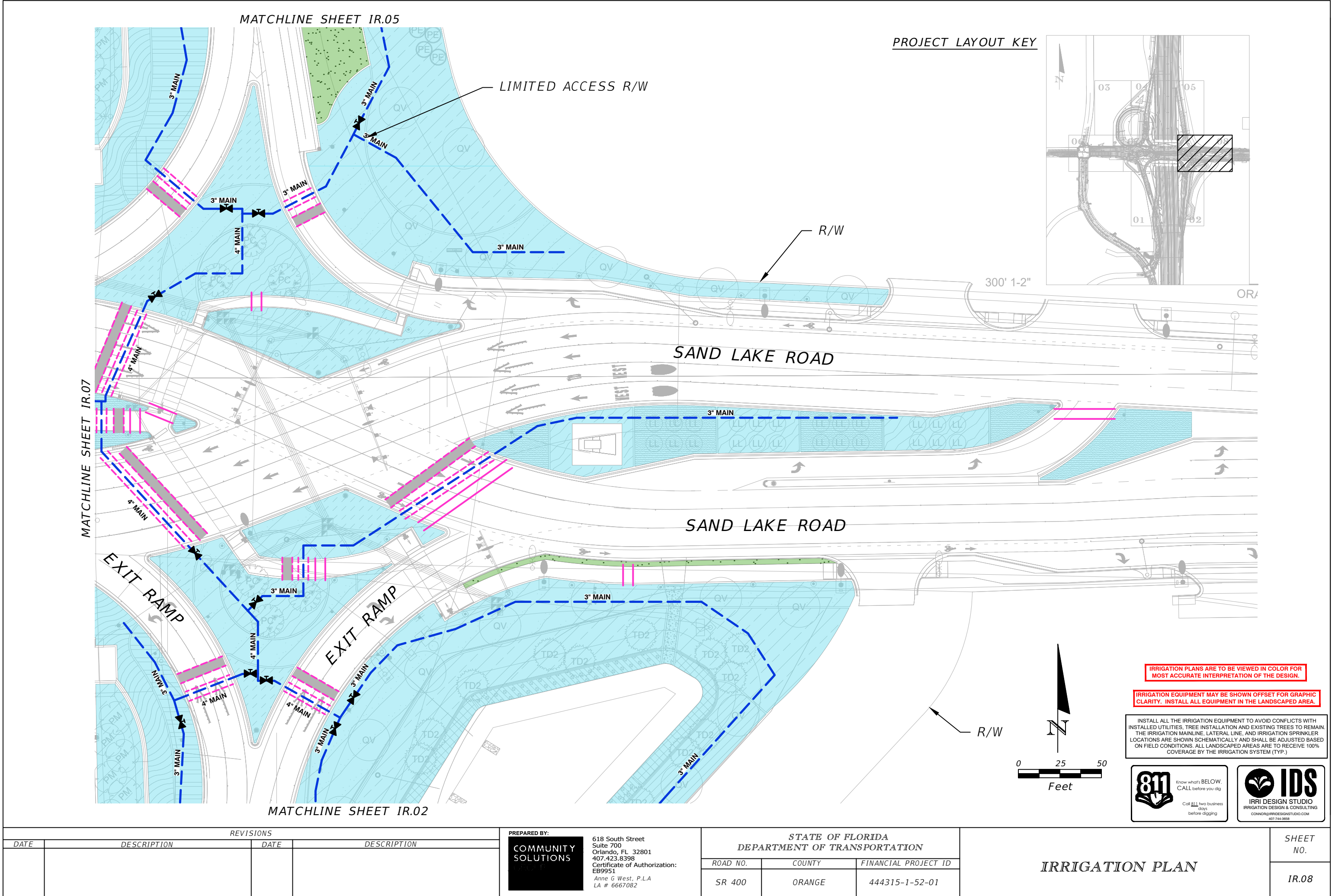
COMMUNITY SOLUTIONS

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

IRRIGATION PLAN

SHEET NO.	IR.07
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IRRIGATION NOTES

1. THE PLANS AND DRAWINGS ARE DIAGRAMMATIC OF THE WORK TO BE PERFORMED. SOME COMPONENTS MAY BE SHOWN OUTSIDE THE WORK AREA FOR CLARITY. THE WORK SHALL BE EXECUTED IN A MANNER TO AVOID CONFLICTS WITH UTILITIES AND OTHER ELEMENTS OF CONSTRUCTION, INCLUDING LANDSCAPE MATERIALS. ALL DEVIATIONS FROM THE PLANS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE BEING INSTALLED.
2. THE IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS, IRRIGATION SYSTEM SPECIFICATIONS AND ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL COMPLY WITH ALL CURRENT LOCAL CODES, ORDINANCES, AND REGULATIONS.
3. ALL IRRIGATION MAINLINE AND LATERAL LINES ARE TO NOT EXCEED A VELOCITY OF 5FPS.
4. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY ASPECT OF THE IRRIGATION SYSTEM AS SHOWN ON THE PLANS AND DRAWINGS, WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES, OR DISCREPANCIES EXIST THAT MIGHT NOT HAVE BEEN KNOWN DURING THE DESIGN OF THE IRRIGATION SYSTEM. IN THE EVENT THAT NOTIFICATION OF THE CONFLICT IS NOT APPROVED BY THE OWNER'S REPRESENTATIVE, THE CONTRACTOR WILL ASSUME FULL RESPONSIBILITY FOR ALL REVISIONS.
5. REFER TO THE LANDSCAPE PLANS WHEN TRENCHING TO AVOID TREE ROOT BALLS WHEN INSTALLING IRRIGATION EQUIPMENT. CALL 811 AND REFER TO UTILITY PLANS PRIOR TO TRENCHING.
6. IRRIGATION CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS, INCLUDING UTILITY LOCATIONS BEFORE INSTALLATION OF THE IRRIGATION SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION WITH ALL OTHER CONSTRUCTION ON SITE, ESPECIALLY LANDSCAPE INSTALLATION. THE IRRIGATION SYSTEM SHALL BE RELOCATED AT NO ADDITIONAL COST FOR ANY CONFLICT WITH LANDSCAPE INSTALLATION OR ANY OTHER SITE CONSTRUCTION OR EXISTING CONDITIONS.
7. VERIFY THE REQUIRED MINIMUM STATIC WATER PRESSURE IS AVAILABLE AT THE PROJECT SITE PRIOR TO BEGINNING THE IRRIGATION INSTALLATION. NOTIFY THE IRRIGATION DESIGN CONSULTANT AND LANDSCAPE ARCHITECT IN WRITING IF THE MINIMUM STATIC WATER PRESSURE OR WATER VOLUME IS NOT AVAILABLE. SEE PLAN SHEET FOR REQUIREMENTS.
8. WHERE EXISTING OR NEW TREES, LIGHT FIXTURES, SIGNS, ELECTRONIC CONTROLLERS AND/OR OTHER OBJECTS ARE AN OBSTRUCTION TO AN IRRIGATION SPRINKLER'S PATTERN, THE COMPONENT AND PIPING SHALL BE RELOCATED AS NECESSARY TO OBTAIN PROPER COVERAGE OF AN IRRIGATION SPRINKLER'S PATTERN. THE COMPONENT AND PIPING SHALL BE RELOCATED AS NECESSARY TO OBTAIN THE PROPER COVERAGE WITHOUT DAMAGING THE OBSTRUCTION.
9. 100% HEAD TO HEAD COVERAGE IS REQUIRED. ASSURE THAT ANY MODIFIED SPACING DOES NOT EXCEED THE SPACING SHOWN IN THE PLANS.
10. IRRIGATION CONTRACTOR SHALL ADJUST ALL SPRINKLERS TO AVOID OVER SPRAY ONTO IMPERVIOUS AREAS.
11. ALL MATERIALS AND EQUIPMENT SHOWN SHALL BE NEW AND INSTALLED AS SHOWN ON THE PLANS. IF THE DRAWINGS DO NOT THOROUGHLY DESCRIBE THE TECHNIQUES TO BE USED, THE INSTALLER SHALL FOLLOW THE INSTALLATION METHODS AND INSTRUCTIONS RECOMMENDED BY THE PRODUCT MANUFACTURER.
12. THE LOCATION OF THE IRRIGATION MAINLINE SHALL BE IDENTIFIED IN THE FIELD AND APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE INSTALLATION.
13. CONTRACTOR IS TO SUBMIT PRODUCT SPECIFICATION SHEETS FOR ALL IRRIGATION EQUIPMENT TO BE USED FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
14. THE QUANTITIES SHOWN IN THE LEGEND SHEETS SHALL NOT BE USED FOR BIDDING PURPOSES. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONDUCTING A COMPREHENSIVE MATERIALS TAKEOFF TO DETERMINE THE ACTUAL QUANTITIES OF MATERIAL NECESSARY TO EXECUTE THE WORK DESCRIBED IN THE DOCUMENTS.
15. ALL TRENCHES SHALL BE BACKFILLED WITH CLEAN DEBRIS-FREE MATERIALS.
16. IRRIGATION CONTRACTOR IS TO INSTALL CHRISTY ZONE TAGS WITH THE CORRESPONDING CONTROLLER ZONE NUMBER AT EACH CONTROL VALVE.
17. WHEN THE IRRIGATION MAINLINE IS 3" OR LARGER, ALL CHANGES OF DIRECTION SHALL BE ACCOMPLISHED WITH THE USE OF DUCTILE IRON ELBOWS AND TEES W/ PROPER THRUST BLOCKING.
18. AS BUILT DOCUMENTS ARE TO BE PROVIDED TO THE OWNER UPON COMPLETION OF THE PROJECT. THE MAINLINE, CONTROL VALVES, ISOLATION VALVES, GROUND RODS AND SPLICE BOXES SHALL BE LOCATED WITH A MEASUREMENT FROM TWO FIXED POINTS.
19. IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF ON-SITE OPERATIONS.
20. A MAINLINE PRESSURE TEST IS TO BE CONDUCTED BEFORE BACKFILLING. ALL FINDINGS ARE TO BE REPORTED TO THE LANDSCAPE ARCHITECT WITHIN TWENTY FOUR HOURS POST TEST.
21. ALL SLEEVES ARE TO BE TWO TIMES THE SIZE OF THE PIPE.
22. ROUTE A 2" ELECTRICAL CONDUIT FROM THE CONTROLLER TO THE MAINLINE TRENCH FOR THE CONTROL WIRES. RUN THE CONDUIT AND CONTROL WIRES PARALLEL TO THE MAINLINE.
23. THE IRRIGATION SYSTEM IS TO BE INSPECTED AND APPROVED BY THE PROJECT OWNER PRIOR TO RECEIVING CERTIFICATION.
24. ANY PRODUCT SUBSTITUTIONS MADE BY THE IRRIGATION CONTRACTOR ARE TO BE REVIEWED AND APPROVED BY THE OWNER PRIOR TO INSTALLATION.

TWO-WIRE NOTES

DECODERS
CONTROLLER SHALL INTERFACE WITH HUNTER ICD DECODERS, EACH CAPABLE OF CONTROLLING 1, 2, 4, OR 6 VALVES (ICD-100, ICD-200, ICD-400, AND ICD-600).
PROVIDE AN ICD-SEN SENSOR DECODER FOR FLOW SENSOR(S) AND/OR CLIK SENSOR(S) ON TWO WIRE PATH.
WIRE CONNECTIONS FROM DECODER OUTPUT TO SOLENOID SHALL BE 14 AWG, TYPE PE
WIRE DISTANCE FROM DECODER OUTPUT TO SOLENOID UNDER NORMAL CONDITIONS SHALL NOT EXCEED 150-FT [45-M].
INSTALL IN VALVE BOX ON DECODER STAKE KIT (DECSTAKE-10) WITH BOTTOM OF DECODER FACING UP.
CONTRACTOR SHALL INDICATE ASSOCIATED VALVE NUMBER(S) ON MANUFACTURER PROVIDED LABEL ON DECODER WITH PERMANENT MARKER.

WIRES
WIRE FOR TWO-WIRE PATH SHALL BE TWISTED AND JACKETED HUNTER IDWIRE, OR APPROVED EQUAL (PAIGE ELECTRIC P7354D); COATED WIRE SHALL NOT BE ACCEPTED AS AN EQUAL: ACCEPTABLE EQUAL PRODUCTS MUST CONSIST OF TWO SEPARATELY PE JACKETED WIRE TWISTED INSIDE OF A PE JACKET.
CONTRACTOR SHALL INSTALL IDWIRE1 (14 AWG) FOR WIRE PATH LENGTH UP TO 10,000-FT [3,048-M] AND IDWIRE2 (12 AWG) FOR WIRE PATH LENGTH UP TO 15,000-FT [4,572-M], WIRE PATH LENGHTS DECREASE WITH SUBSTITUTED WIRE.
WIRE JACKET COLORS SHALL BE SUCH TO FACILITATE THE IDENTIFICATION OF VARIOUS WIRE PATH ZONES; SEE WIRE JACKET CHART FOR WIRE TYPE, COLOR AND ASSOCIATED VALVES.
THE CONTROLLER ALLOWS UP TO THREE (3) TWO-WIRE PATHS PER OUTPUT MODULE, CONTRACTOR SHALL NOT CONNECT ANY TWO-WIRE PATH FROM ONE OUTPUT MODULE TO ANOTHER OUTPUT MODULE.
WIRE CONNECTION FROM DECODER OUTPUT TO SOLENOID SHALL BE COLORED TO MATCH THE ASSOCIATED DECODER OUTPUT STATION COLOR; RED AND BLUE COLORED WIRES SHALL NOT BE USED FOR CONNECTION BETWEEN DECODER OUTPUT AND SOLENOID.

SPLICES
ALL CONNECTIONS AND SPLICES IN THE RED/BLUE TWO-WIRE PATH MUST BE MADE WITH 3M DBR/Y-6 WATERPROOF CONNECTORS INSTALLED PER MANUFACTURERS INSTRUCTIONS IN VALVE BOX WITH OPEN END OF CONNECTOR FACING DOWN.
CONTRACTOR SHALL PROVIDE 36-IN [1-M] LOOP OF SLACK WIRE, MEASURED FROM TOP OF VALVE BOX, NEATLY COILED INSIDE ALL SPLICE BOXES AND VALVE BOXES.
ANY SPLICES IN THE TWO-WIRE PATH NOT ASSOCIATED WITH A DECODER SHALL BE HOUSED IN SEPARATE VALVE BOXES WITH 36-IN [1-M] LOOP OF SLACK WIRE.
CONTRACTOR SHALL INDICATE TWO-WIRE PATH DIRECTIONS IN PERMANENT MARKER WITHIN 6-IN [2.5-CM] OF TWO-WIRE SPLICE ON WIRE JACKET OR ID TAG ZIP TIED TO WIRE: INCOMING WIRE SHALL BE MARKED "CONTROLLER" ON WIRE JACKET OR ID TAG AND MUST INCLUDE ZIP-TIE ATTACHED TO WIRE JACKET EACH OUTGOING TWO-WIRE PATH SHALL BE MARKED WITH CONNECTED VALVES ON WIRE JACKET.
CONTRACTOR SHALL ENSURE ALL CONNECTIONS TO BE WATERTIGHT WITH NO ELECTRICAL LEAKAGE TO GROUND OR SHORTING BETWEEN CONDUCTORS.

GROUNDING
ALL GROUNDING AND INSTALLATION OF EQUIPMENT SPECIFIED SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
BOTH THE CONTROLLER AND THE DECODERS SHALL BE GROUNDED TO GROUND RODS OR PLATES WITH LESS THAN 10 OHMS RESISTANCE.
IRRIGATION CONTROLLER AND PAD SHALL NOT FALL WITHIN THE SPHERE OF INFLUENCE OF A GROUND ROD OR PLATE.
AT A MINIMUM, EARTH GROUND SHALL BE CONNECTED AT THE FIRST DECODER OF EACH WIRE PATH LEAVING THE CONTROLLER, AND EVERY 12TH VALVE/DECODER OR 1,000-FT [304-M] OF TWO-WIRE RUN (WHICHEVER IS SHORTER), AND AT THE LAST VALVE/DECODER IN ANY WIRE RUN EXCEEDING 50' FROM MAIN WIRE PATH.
FOR USE OF GROUNDING PLATE:
SOLID COPPER GROUNDING PLATE SHALL HAVE A PRE-WELDED #6 AWG INSULATED GREEN-YELLOW WIRE GROUND PLATES ARE TO BE INSTALLED TO A MINIMUM DEPTH OF 30-IN [76-CM] GROUND PLATES SHALL BE MADE OF A COPPER ALLOY INTENDED FOR GROUNDING APPLICATIONS AND HAVE MINIMUM DIMENSIONS AS FOLLOWS:
A. FOR GROUNDING CONTROLLERS - 4-IN [10-CM] X 8-FT [1.2-M] X 0.0625-IN [1.5-MM] SOLID COPPER GROUNDING PLATE, WITH 25-FT [7.6-M] CONTINUOUS LENGTH OF 6 AWG, GREEN INSULATED, WITH EXTRUDED YELLOW STRIPE, SOLID BARE COPPER WIRE WELDED TO THE PLATE (PAIGE ELECTRIC 182199IC) AND TWO 50-LB [22.6-KG] BAGS OF POWERSET EARTH CONTACT MATERIAL (PAIGE ELECTRIC 1820058) FOR POROUS SOILS OR TWO 50-LB [22.6-KG] BAGS OF POWERFILL EARTH CONTACT MATERIAL (PAIGE ELECTRIC 1820059) FOR NON-POROUS SOILS.
B. FOR GROUNDING DECODERS - 4-IN [10-CM] X 3-FT [1-M] X 0.0625-IN [1.5-MM] SOLID COPPER GROUNDING PLATE, WITH 15-FT [4.5-M] CONTINUOUS LENGTH OF 10 AWG, GREEN INSULATED, WITH EXTRUDED YELLOW STRIPE, SOLID BARE COPPER WIRE IS WELDED TO THE PLATE (PAIGE ELECTRIC 182201IC) AND ONE 50-LB [22.6-KG] BAG OF POWERSET EARTH CONTACT MATERIAL (PAIGE ELECTRIC 1820058) FOR POROUS SOILS OR ONE 50-LB [22.6-KG] BAG OF POWERFILL EARTH CONTACT MATERIAL (PAIGE ELECTRIC 1820059) FOR NON-POROUS SOILS FOR USE OF GROUNDING ROD: GROUND ROD SHALL BE 5/8-IN [15-MM] DIAMETER X 8-FT [1.2-M] LONG COPPER CLAD STEEL GROUND RODS WITH 15-FT [4.5-M] PRE-WELDED #6 AWG INSULATED GREEN-YELLOW WIRE (PAIGE ELECTRIC PART # 182000IC6).
GROUND ROD SHALL BE DRIVEN INTO THE GROUND IN A VERTICAL POSITION OR AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES AT A LOCATION 10-FT [3-M] FROM THE ELECTRONIC EQUIPMENT, THE GROUND PLATE, OR THE WIRES AND CABLES CONNECTED TO EQUIPMENT BEING GROUNDED.
ADDITIONAL GROUND ROD IN DAISY CHAIN INSTALLATION SHALL BE 5/8-IN [15-MM] DIAMETER X 8-FT [1.2-M] LONG COPPER CLAD STEEL GROUND RODS WITH 25-FT [4.5-M] PRE-WELDED #6 AWG INSULATED GREEN-YELLOW WIRE (PAIGE ELECTRIC PART # 182007IC6) GROUND RODS SHALL BE COVERED BY A VALVE BOX. ALL CIRCUIT COMPONENTS SHALL BE INSTALLED IN STRAIGHT LINES.

GROUND ROD AND PLATE LOCATION
CONTRACTOR SHALL LOCATE AND INSTALL GROUND ROD AND/OR PLATE IN AREA OF MOIST SOIL TO MAXIMIZE ELECTRICAL CONDUCTIVITY.

SURGE PROTECTION (LIGHTING ARRESTOR)
CONTRACTOR SHALL INSTALL PAIGE ELECTRIC 250090LED LIGHTENING ARRESTOR PER MANUFACTURERS SPECIFICATIONS AS CLOSE TO CONTROLLER POWER SOURCE AS POSSIBLE TO PROTECT THE IRRIGATION CONTROLLER FROM SURGES THROUGH 120 OR 240 VAC WIRES.

TURN OVER ITEMS
CONTRACTOR SHALL PROVIDE PROJECT OWNER WITH THE FOLLOWING AT PROJECT COMPLETION AND TURN OVER: A2C-D SD CARD WITH SAVED STATION AND IRRIGATION PROGRAM INFORMATION.
PRODUCT MANUALS.
IN ADDITION TO IRRIGATION AS-BUILT REQUIREMENTS, THE CONTRACTOR SHALL INCLUDE IN THE AS-BUILT DRAWINGS OF IRRIGATION SYSTEM GRAPHICALLY DEPICTING LOCATION OF TWO-WIRE PATH(S), GROUNDING LOCATION AND TYPE, DECODERS, NON-DECODER WIRE SPLICES, INDICATION OF TWO-WIRE SPLICE TYPES (1-WAY, 2-WAY, 3-WAY, ETC), AND TERMINATION OF TWO-WIRE PATHS ICD-HP HANDHELD PROGRAMMER AND DIAGNOSTIC TOOL ROAM XL HANDHELD REMOTE AND RECEIVER.

MANUFACTURER TRAINING
PRIOR TO INSTALLATION THE CONTRACTOR SHALL HAVE COMPLETED AND RECEIVED CERTIFICATION FOR THE FOLLOWING TRAINING MODULES PROVIDED BY HUNTER INDUSTRIES:
DECODER SPECIALIST PROGRAM
MULTIMETER BASICS COURSE
EXPERT PROGRAM
PRE-CONSTRUCTION MEETING
PRIOR TO INSTALLATION OF TWO-WIRE IRRIGATION SYSTEM, A PRE-CONSTRUCTION MEETING SHALL BE CONDUCTED WITH PROJECT OWNER'S REPRESENTATIVE, INSTALLING CONTRACTOR, AND IRRIGATION TWO-WIRE MANUFACTURER AT NO ADDITIONAL COST FROM MANUFACTURER.

TECHNICAL SUPPORT
HUNTER INDUSTRIES (800) 733-2823

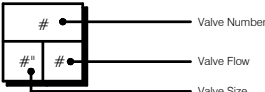
REVISIONS				PREPARED BY: COMMUNITY SOLUTIONS 618 South Street Suite 700 Orlando, FL 32801 407.423.8398 Certificate of Authorization: EB9951 Anne G West, P.L.A LA # 6667082	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			IRRIGATION NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						IR.09
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				SR 400	ORANGE	444315-1-52-01			



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	NIBCO P-619-RW 2IN. TO 12IN. CAST IRON GATE VALVE. SAME SIZE AS MAINLINE PIPE WHERE LOCATED. RESILIENT WEDGE NON-RISING STEM FLOW CONTROL WITH IPS PUSH-ON ENDS.	32
	HUNTER ICV-G (MASTER VALVE) 2" 1IN., 1-1/2IN., 2IN., AND 3IN. PLASTIC ELECTRIC MASTER VALVE, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.	1
	ZURN 975XL 2" REDUCED PRESSURE BACKFLOW DEVICE	1
	HUNTER A2C-150D-M 150-STATION DECODER CONTROLLER WITH ONE (1) A2C-D75 MODULE IN AN OUTDOOR METAL WALL MOUNT ENCLOSURE.	1
	HUNTER ICD-HP WIRELESS HANDHELD DECODER PROGRAMMER, INCLUDES ALL TEST AND POWER LEADS, PROGRAMMING CUP, AND RUGGED CARRYING CASE. FOR COMMERCIAL USE.	1
	HUNTER ICD-SEN 2-INPUT SENSOR DECODER WITH SURGE SUPPRESSION AND GROUND WIRE. TO BE INSTALLED ON UNIVERSAL DECODER STAKE KIT (DECSTAKE10).	1
	HUNTER MWS WEATHER STATION WITH RAIN SENSOR, WIND SENSOR, 120 VAC, 5 AMP. 5 YEAR WARRANTY.	1
	HUNTER ROAMXL-KIT TRANSMITTER AND RECEIVER. ROAM REMOTE ALLOWS FOR CONTROLLER OPERATION UP TO 2 MILES. CONTRACTOR, LARGE-SCALE SITES. WORKS WITH HUNTER ACC, I-CORE, PRO-C, PCC, AND X-CORE CONTROLLERS. SMARTPORT WIRING HARNESS INCLUDED.	1
	HUNTER HFS-200 FLOW SENSOR FOR USE WITH ACC CONTROLLER, 2IN. SCHEDULE 40 SENSOR BODY, 24 VAC, 2 AMP.	1
	POINT OF CONNECTION RECORDALL BADGER DISC METER OR EQUAL PROVIDED BY OTHERS	1
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21	10,072 L.F.

Valve Callout



THE QUANTITIES SHOWN IN THE LEGEND SHEETS SHALL NOT BE USED FOR BIDDING PURPOSES. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONDUCTING A COMPREHENSIVE MATERIALS TAKEOFF TO DETERMINE THE ACTUAL QUANTITIES OF MATERIAL NECESSARY TO EXECUTE THE WORK DESCRIBED IN THE DOCUMENTS.

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CONCEPT GRAPHICS SCHEDULE

	TURF NO IRRIGATION NEEDED FOR BAHIA GRASSES. TREES AND SHRUBS IN BAHIA TO BE IRRIGATED WITH BUBBLERS. TAKEOFF: 103,878 SF
	PLANTING BEDS PLANTING/GROUND COVER TO BE IRRIGATED USING 12" HIGH-POP SPRAY HEADS. TREES IN PLANTING BEDS TO BE IRRIGATED WITH BUBBLERS. TAKEOFF: 154,856 SF

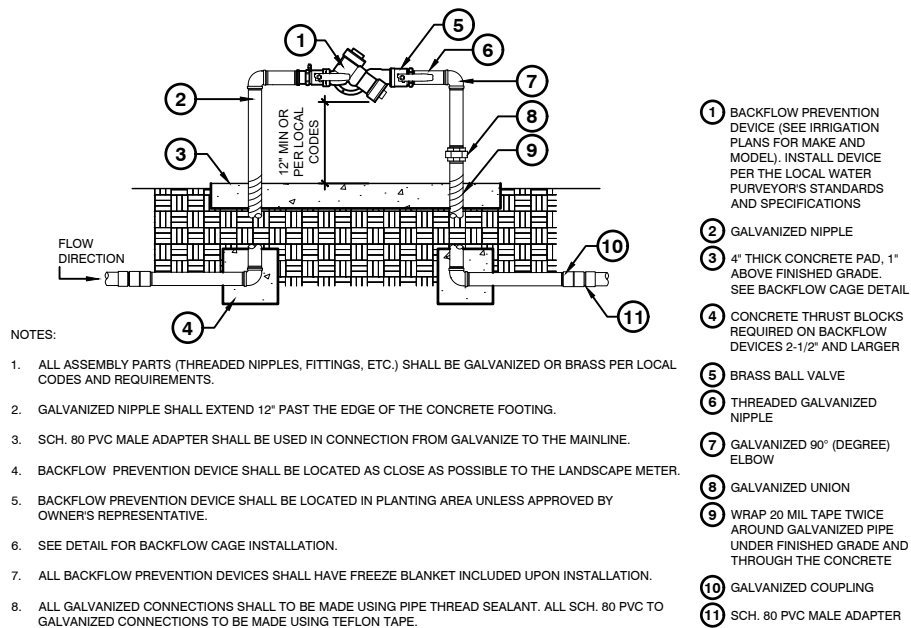
SLEEVE LEGEND

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	PROPOSED 6" IRRIGATION MAINLINE SLEEVES - 1,100FT
	PROPOSED 4" IRRIGATION SLEEVES - 340FT
	PROPOSED 2" IRRIGATION CONDUIT - 1,100FT

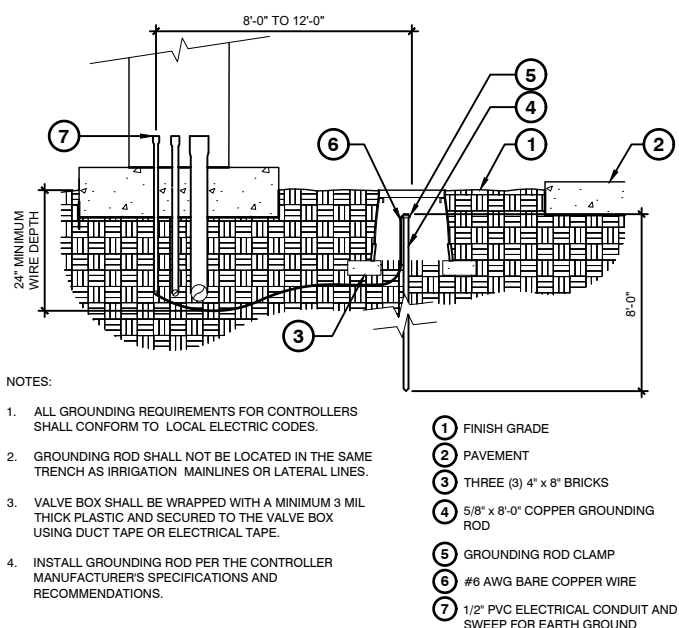
CRITICAL ANALYSIS

P.O.C. NUMBER: 01	
Water Source Information:	RECORDALL BADGER DISC METER OR EQUAL PROVIDED BY OTHERS
FLOW AVAILABLE	
Custom Max Flow:	110 GPM
Flow Available	110 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	60 PSI
Pressure Available:	60 PSI
DESIGN ANALYSIS	
Maximum Multi-valve Flow:	100 GPM
Flow Available at POC:	110 GPM
Residual Flow Available:	10 GPM
Pressure Req. at Critical Station:	35 PSI
Loss for Fittings:	0.61 PSI
Loss for Main Line:	6.14 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	13.6 PSI
Loss for Master Valve:	4.2 PSI
Critical Station Pressure at POC:	59.6 PSI
Pressure Available:	60 PSI
Residual Pressure Available:	0.44 PSI

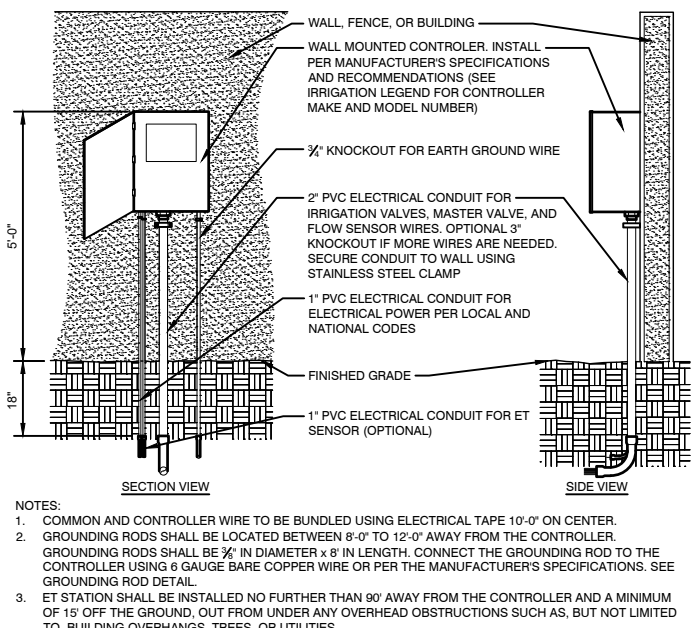




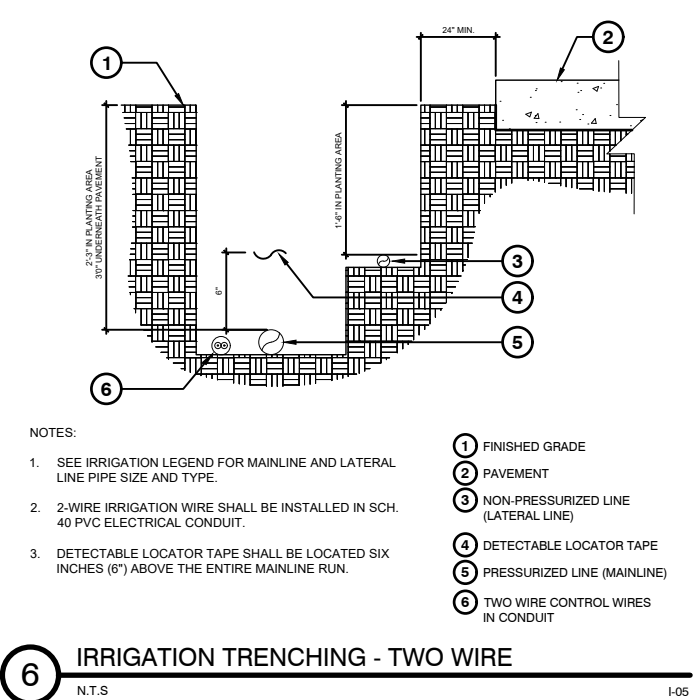
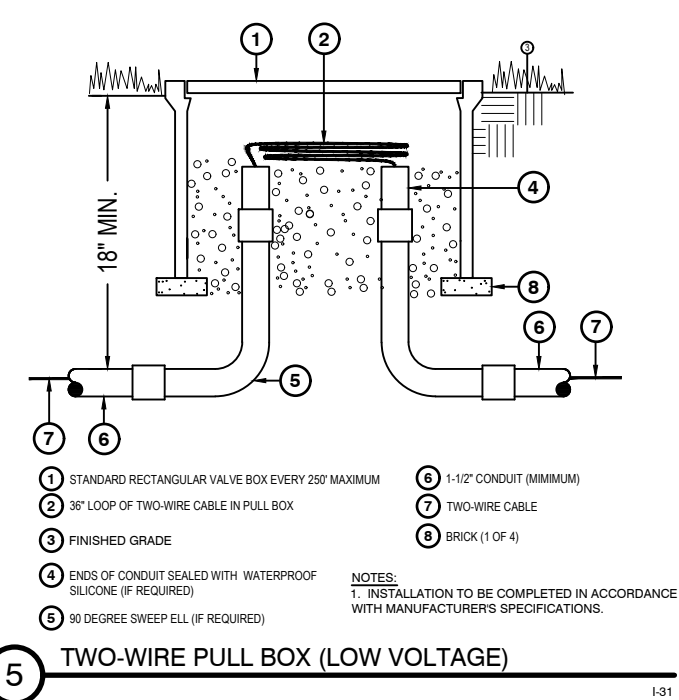
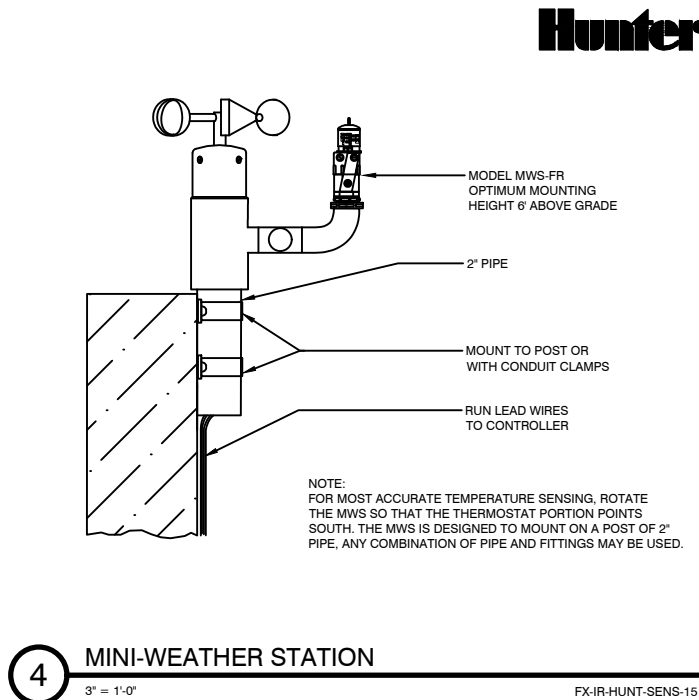
1 BACKFLOW PREVENTION DEVICE
3/4" = 1'-0"
FX-IR-FX-BACK-02



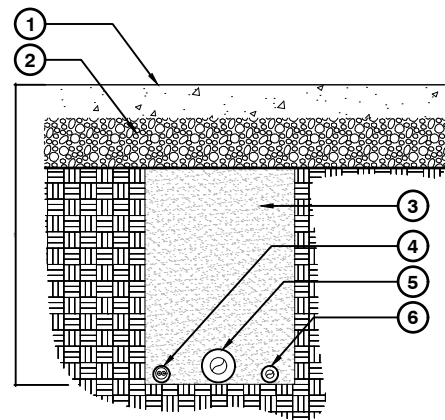
2 GROUNDING ROD
1" = 1'-0"
FX-IR-FX-AUXEQ-01



3 WALL MOUNTED CONTROLLER
1/2" = 1'-0"
FX-IR-FX-CONT-05



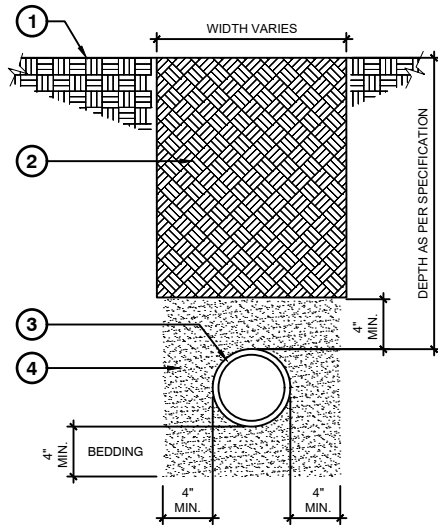
REVISIONS				PREPARED BY: COMMUNITY SOLUTIONS	618 South Street Suite 700 Orlando, FL 32801 407.423.8398 Certificate of Authorization: EB9951 Anne G West, P.L.A LA # 6667082	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. IRRIGATION DETAILS IR.11
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 400	ORANGE	444315-1-52-01	



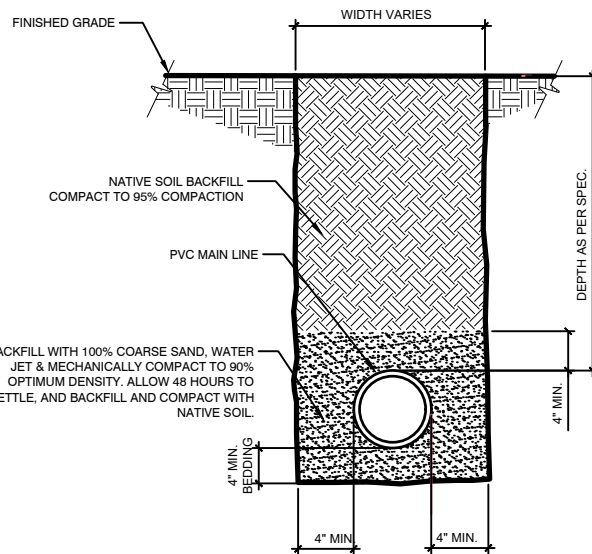
- 1 PAVEMENT
- 2 BASE ROCK
- 3 CLEAN BACKFILL, 95% RELATIVE COMPACTION UNDER PAVING OR PER CIVIL ENGINEER'S PLANS
- 4 TWO-WIRE CONTROL WIRES IN CONDUIT, SLEEVE UNDER PAVING. INSTALL ADJACENT TO PRESSURIZED MAINLINE. BUNDLE SHALL BE NO MORE THAN 50% OF PIPE DIAMETER
- 5 MAINLINE, SLEEVE UNDER PAVING TO BE TWO TIMES THE DIAMETER OF THE PRESSURIZED MAINLINE PIPE
- 6 NON-PRESSURIZED LINE, SLEEVE UNDER PAVING TO BE TWO TIMES THE DIAMETER OF THE LATERAL LINE

NOTES:

1. SEE IRRIGATION LEGEND FOR MAINLINE SIZE AND TYPE.
2. ALL SLEEVES SHALL BE SCH. 40 PVC PIPE.
3. ALL SLEEVES SHALL EXTEND 12" BEYOND THE EDGE OF PAVEMENT.
4. END OF SLEEVES SHALL BE LOCATED WITH A WOODEN STAKE OR PVC PIPE. LOCATORS SHALL RUN CONTINUOUSLY FROM THE END OF THE SLEEVE TO FINISHED GRADE.



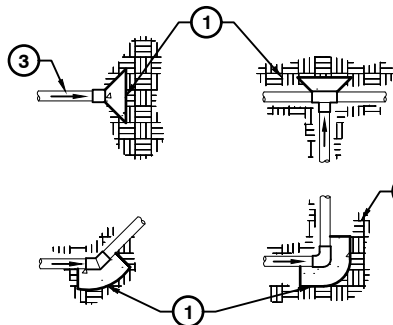
- 1 FINISHED GRADE
- 2 NATIVE SOIL BACKFILL COMPACT TO 95% COMPACTION
- 3 PVC MAINLINE
- 4 BACKFILL WITH 100% COARSE SAND, WATER JET AND MECHANICALLY COMPACT TO 90% OPTIMUM DENSITY. ALLOW 48 HOURS TO SETTLE, AND BACKFILL AND COMPACT WITH NATIVE SOIL



1 PIPE BENEATH PAVEMENT - TWO WIRE
N.T.S. 1-04

2 MAINLINE WITH SAND BEDDING
1 1/2" = 1'-0" FX-IR-FX-AUXEQ-13

3 SLEEVE AT ROAD
1 1/2" = 1'-0" FX-IR-FX-AUXEQ-15



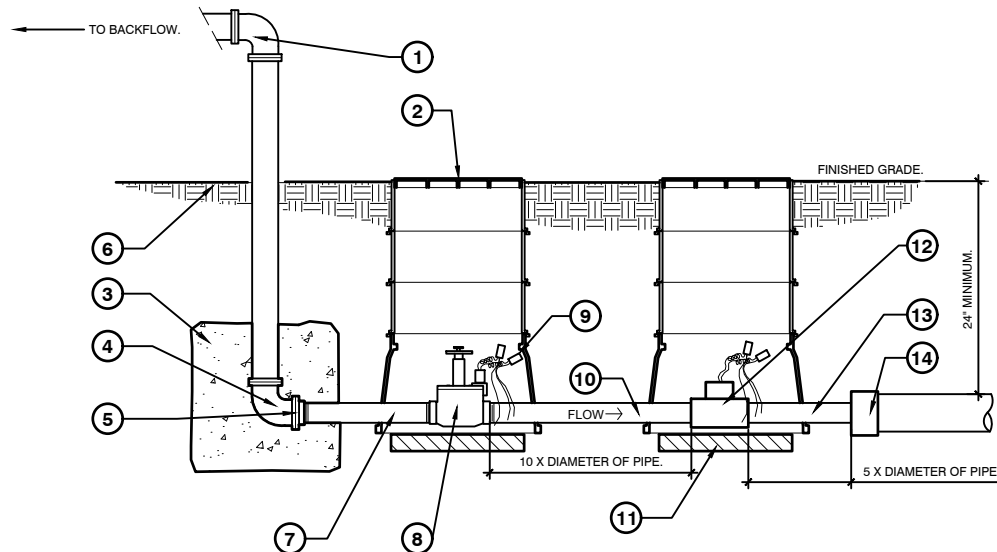
- 1 BEARING SURFACE
- 2 EXISTING OR MODIFIED SOIL (SEE SPECIFICATION FOR SOIL MODIFICATION)
- 3 FLOW DIRECTION

NOTES:

1. SIZE THRUST BLOCKS SHALL BE SPECIFIED AS SHOW IN THE TABLE.
2. CONTROL WIRES SHALL NOT BE ENCASED IN CONCRETE.
3. ALL FITTINGS SHALL BE WRAPPED WITH POLYETHYLENE TO PREVENT CONCRETE FROM ADHERING TO PIPE, FITTINGS OR BOLTS.
4. JOINTS AND BOLTS SHALL BE ACCESSIBLE FOR REPAIRS.
5. THRUST BLOCKS SHALL BE A MINIMUM OF 6" THICK.
6. ONE 80 LBS. SACK OF CONCRETE SHALL COVER .6 FT.³

PIPE SIZE	TEE AND PLUG	90° BEND	45° BEND
1-1/2"	0.45 FEET ²	0.63 FEET ²	0.34 FEET ²
2"	0.69 FEET ²	0.97 FEET ²	0.53 FEET ²
2-1/2"	1.0 FEET ²	1.41 FEET ²	0.77 FEET ²
3"	1.48 FEET ²	2.10 FEET ²	1.14 FEET ²
4"	2.43 FEET ²	3.45 FEET ²	1.87 FEET ²
6"	5.25 FEET ²	7.41 FEET ²	4.02 FEET ²
8"	9.08 FEET ²	12.83 FEET ²	6.96 FEET ²
10"	14.93 FEET ²	21.07 FEET ²	11.44 FEET ²

4 THRUST BLOCK
1:10 FX-IR-FX-AUXEQ-07



- 1 4" FLANGE ELBOW P.O.C.
- 2 SPECIFIED RECTANGULAR VALVE BOXES WITH EXTENSIONS AS NEEDED.
- 3 18"X18"X18" CONCRETE SUPPORT BLOCK.
- 4 4" FLANGED ELL.
- 5 2"X4" FLANGED REDUCER.
- 6 SOIL.
- 7 PVC SCH 80 2"X8" NIPPLE.
- 8 MASTER VALVE AS SPECIFIED.
- 9 WATER PROOF CONNECTORS.
- 10 2X24 PVC SCH 80 TOE PIPING.
- 11 2X6X16 CONCRETE WALL CAPS, TWO PER BOX, ONE EACH SIDE.
- 12 FLOW METER AS SPECIFIED (2 WIRES TO CONTROLLER).
- 13 2X12 PVC SCH 80 PIPING.
- 14 4" PVC MAIN LINE WITH 2" REDUCING BUSHING.

5 MASTER CONTROL VALVE AND FLOW SENSOR ASSEMBLY - NO REDUCER FROM BACKFLOW
1" = 1'-0" I-13

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PREPARED BY:

COMMUNITY SOLUTIONS

618 South Street
Suite 700
Orlando, FL 32801
407.423.8398
Certificate of Authorization:
EB9951
Anne G West, P.L.A
LA # 6667082

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

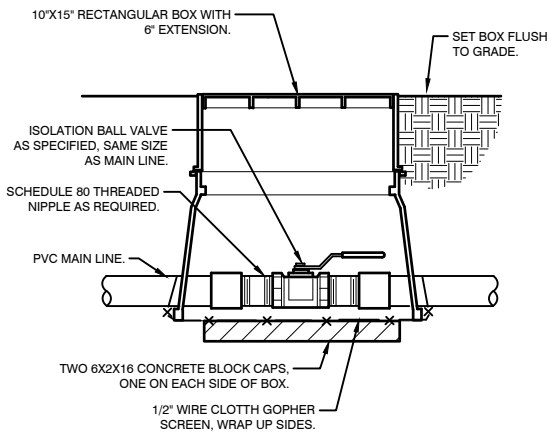
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IRRIGATION DETAILS

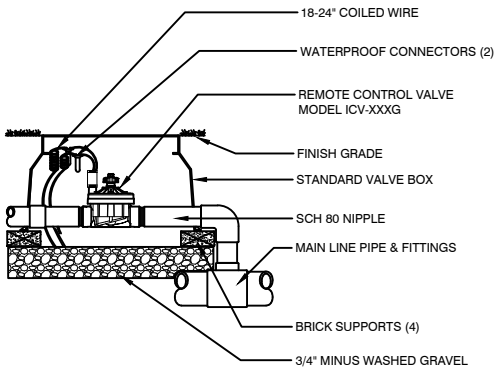
SHEET
NO.

IR.12

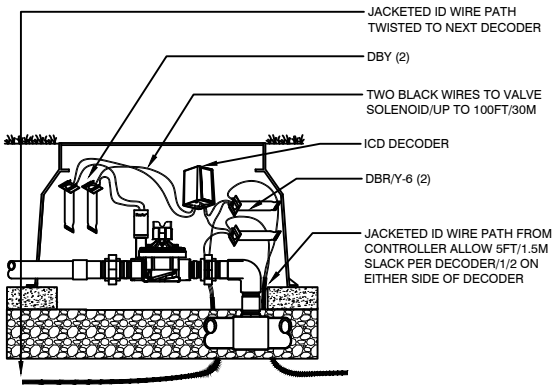




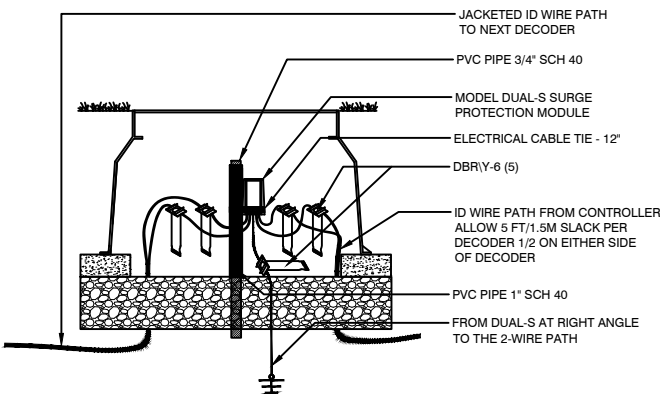
1 BRASS BALL ISOLATION VALVE
1 1/2" = 1'-0" FX-IR-FX-ISOV-02



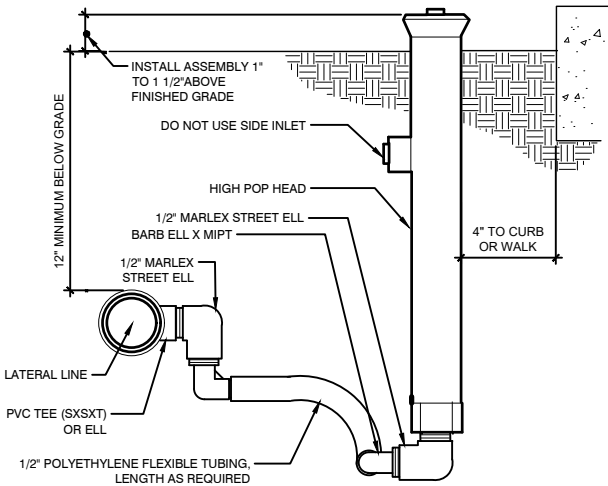
2 ICV GLOBE VALVE
1" = 1'-0" FX-IR-HUNT-VALV-20



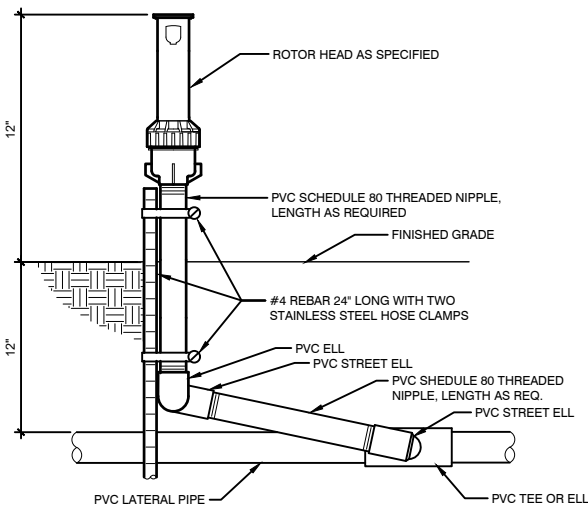
3 ICD-100 DECODER
1 1/2" = 1'-0" FX-IR-HUNT-CONT-11



4 SURGE DEVICE
1 1/2" = 1'-0" FX-IR-HUNT-CONT-15



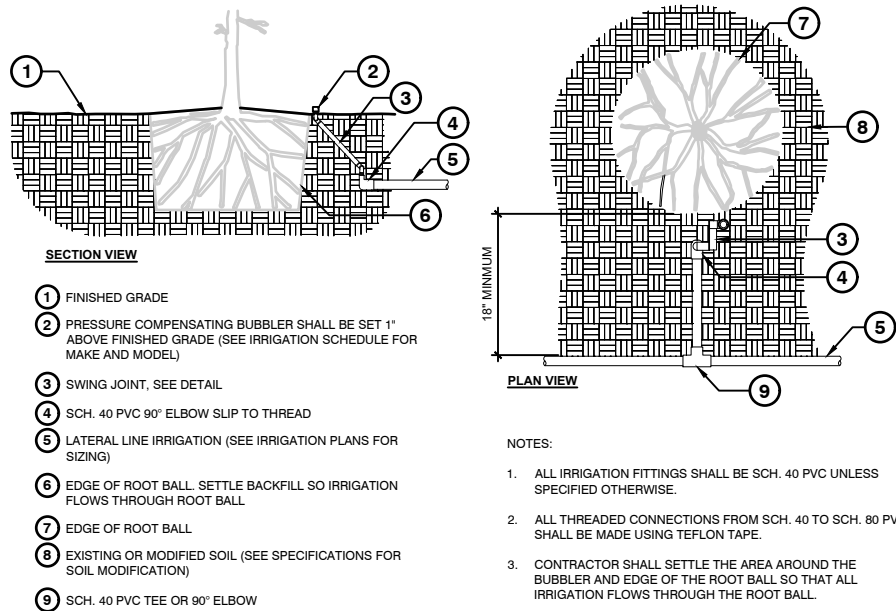
5 SHRUB SPRAY HIGHPOP W/FLEX ASSEMBLY
3" = 1'-0" FX-IR-FX-HEAD-08



6 SHRUB ROTOR ON FIXED RISER
3" = 1'-0" FX-IR-FX-HEAD-11

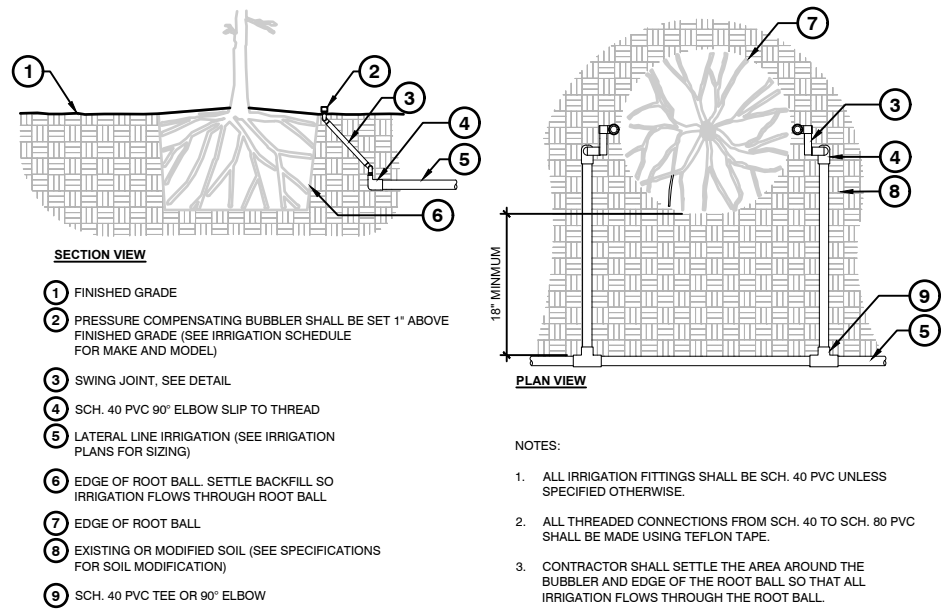


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1 IRRIGATION BUBBLER W/ LAYOUT
3/4" = 1'-0"

FX-IR-FX-BUBB-04



2 IRRIGATION BUBBLER (2) W/ LAYOUT
3/4" = 1'-0"

FX-IR-FX-BUBB-01

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