DERBYSHIRE SIDEWALKS

PHASE 2

CITY OF DAYTONA BEACH – VOLUSIA COUNTY, FL

90% ENGINEERING PLANS

FPID: 443236-2-58-01 FAN: TBD

CITY OF DAYTONA BEACH
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ANDREW J. HOLMES, P.E., PUBLIC WORKS DIRECTOR
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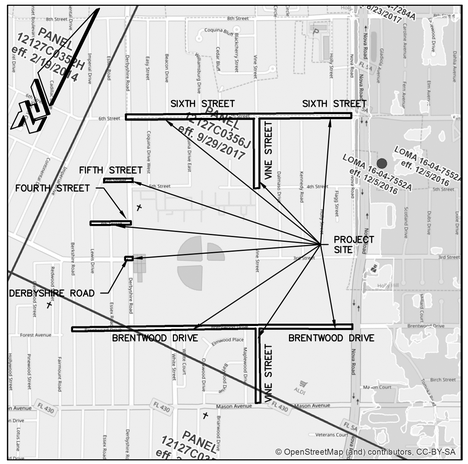
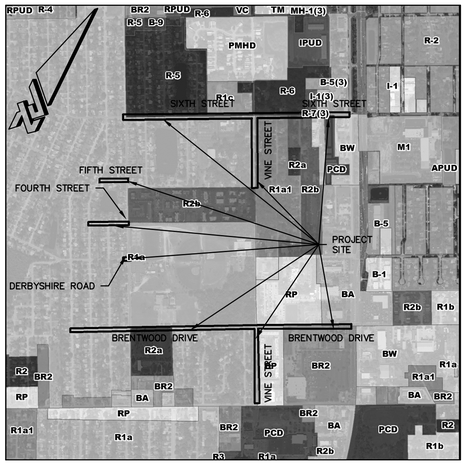
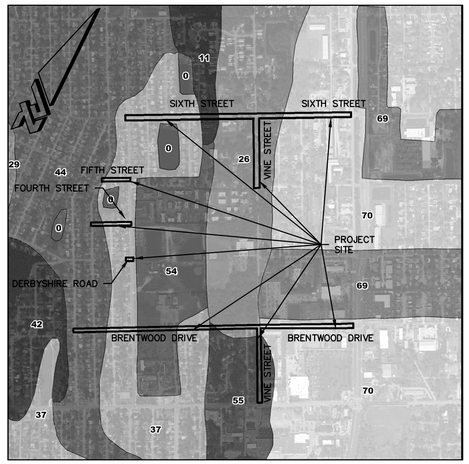


FLOOD MAP
SCALE: 1" = 1000'

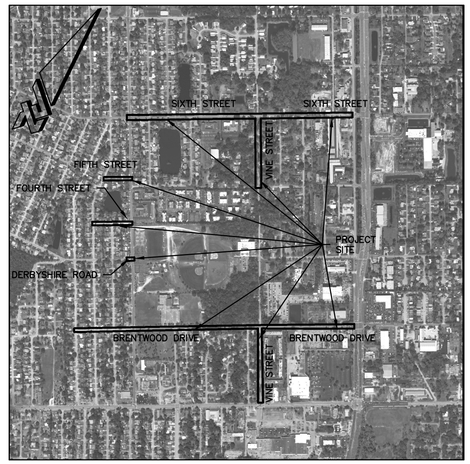


LAND USE MAP
SCALE: 1" = 1000'



SOILS MAP
SCALE: 1" = 1000'

SOILS KEY
0 – WATER | 11 – BULOW SAND; 0 – 5 % SLOPES | 26 – HOLOPAW SAND; | 29 – IMMOKALEE SAND;
37 – ORSINO FINE SAND; 0 – 5 % SLOPES | 42 – PAOLA FINE SAND; 0 – 8 % SLOPES
44 – PAOLA-URBAN LAND COMPLEX; 0 – 8 % SLOPES | 54 – QUARTZIPSAMMENTS; GENTLY SLOPING
55 – RIVERA FINE SAND | 69 – TUSCAWILLA FINE SAND | 70 – TUSCAWILLA-URBAN LAND COMPLEX



VICINITY MAP
SCALE: 1" = 1000'

SITE DATA:

PROJECT INFORMATION

PARCEL ID #
44-14-32-01-19-0040
SECTION 31, TOWNSHIP 14 SOUTH, RANGE 32 EAST, DAYTONA BEACH, VOLUSIA COUNTY, FLORIDA

SITE AREA

TOTAL SITE AREA:	34.32 ACRES
PROJECT AREA CONSTRUCTION LIMITS (AREA WITHIN LIMITS OF CONSTRUCTION):	1.60 ACRES
BRENTWOOD DRIVE SIDEWALK LENGTH:	3689 LF
VINE STREET SIDEWALK LENGTH:	1919 LF
FOURTH STREET SIDEWALK LENGTH:	499 LF
SIXTH STREET SIDEWALK LENGTH:	2987 LF
DERBYSHIRE ROAD SIDEWALK LENGTH:	7 LF
FIFTH STREET SIDEWALK LENGTH:	352 LF
TOTAL PROJECT LENGTH:	9453 LF

NOTES:

1. ALL CONSTRUCTION SHALL MEET CURRENT ADA REQUIREMENTS, ALL CONSTRUCTION NOT ADA COMPLIANT WILL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.
2. ALL PROPOSED IMPROVEMENTS SHOWN HEREIN SHALL BE CONSTRUCTED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
3. THE SCALE OF THE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

GOVERNING STANDARDS AND SPECIFICATIONS:

Florida Department of Transportation Standard Specifications for Road and Bridge Construction, FY 2019-2020
Florida Department of Transportation Development Design Standards, FY 2019-2020
City of Daytona Beach Engineering Standards for Design and Construction
City of Daytona Beach Utilities Department Standard Details, 2018-2019
Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (Florida Greenbook), 2016 Florida Greenbook.

SHEET INDEX:

SHEET NO.	DESCRIPTION
C1	COVER SHEET
C2	CONSTRUCTION NOTES
C2A	SUMMARY OF PAY ITEMS
C3	OVERALL DEMOLITION AND EROSION CONTROL PLAN
C4-C12	DEMOLITION AND EROSION CONTROL PLAN
C13	OVERALL SIDEWALK GRADING & DRAINAGE PLAN
C14-C22	SIDEWALK GRADING & DRAINAGE PLAN
C23	TYPICAL SECTIONS
C24-C28	STREET SIDEWALK SECTIONS SECTIONS
C29-C30	CONSTRUCTION DETAILS

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CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION
(LC-642) (EB 4516)

NO	DATE	REVISIONS	BY

DERBYSHIRE SIDEWALKS
PHASE 2
90% ENGINEERING PLANS
COVER SHEET
CITY OF DAYTONA BEACH VOLUSIA COUNTY, FL

PROJECT NO: ZC17045
ISSUE DATE: 03-26-2018
DESIGNED BY: KR
DRAFTED BY: TL
CHECKED BY: BWS
DRAWING FILE: 01_17045PH2_COV
XREFS: 17045PH2-TIB.dwg
XREFS:

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

SCALE: AS NOTED
SHEET: C1 OF 31

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GENERAL NOTES:

1. ALL DISTURBED AREAS SHALL BE SODDED OR SEEDED AND MULCHED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING ALL ELEVATIONS OF EXISTING UTILITIES SHOWN OR NOT SHOWN PRIOR TO CONSTRUCTION AND FOR NOTIFYING THE VARIOUS UTILITY COMPANIES TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION, DISRUPTION OF SERVICE OR CLARIFICATION OF ACTIVITY REGARDING SAID UTILITY. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN CROSSING AN UNDERGROUND UTILITY, WHETHER SHOWN ON THESE PLANS OR FIELD LOCATED. UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY DURING RELOCATION OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF DAMAGES TO EXISTING UTILITIES.
3. ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION FY 2018–2019 STANDARD PLANS.
4. THE LENGTH OF ALL DRAINAGE PIPES AND LOCATION OF ALL DRAINAGE STRUCTURES ARE APPROXIMATE. THE LOCATION OF THE DRAINAGE STRUCTURES SHALL DETERMINE THE LENGTH OF PIPE.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AN "AS–BUILT" SURVEY OF THE COMPLETED CONSTRUCTION. THE "AS–BUILT" SURVEY SHALL BE PREPARED IN ACCORDANCE WITH APPROPRIATE GOVERNMENTAL REGULATIONS AND SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL LAND SURVEYOR.
6. THE CONTRACTOR SHALL MAINTAIN, AT THE JOB SITE, A RECORD COPY OF ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS ON WHICH ALL FIELD CHANGES ARE TO BE SHOWN. THESE CHANGES ARE TO BE INCORPORATED IN THE "AS–BUILT" SURVEY FURNISHED TO THE ENGINEER.
7. CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL REQUIRED PERMITS. THE CONTRACTOR SHALL MAINTAIN COPIES OF ALL RELEVANT PERMITS AVAILABLE ON THE JOB SITE AT ALL TIMES.
8. PRIOR TO COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE ELECTRIC, TELEPHONE, GAS AND CABLE TELEVISION COMPANIES TO DETERMINE THE TYPE AND LOCATION OF ALL UNDERGROUND FACILITIES IN THE AREA OF CONSTRUCTION.
9. OPERATION AND MAINTENANCE OF THE STORMWATER SYSTEM WILL BE PROVIDED BY THE OWNER OF PROPERTY.
10. MAINTENANCE IS TO INCLUDE:
    A. BI–WEEKLY MOWING OF SIDESLOPES FOR VEGETATION CONTROL.
    B. QUARTERLY INSPECTION AND/OR CLEANING OF CATCH BASINS TO KEEP FREE OF SAND AND DEBRIS.
12. ALL DISTURBED AREAS SHALL HAVE GRASS/ VEGETATION ESTABLISHED PRIOR TO THE INSPECTION FOR THE CERTIFICATE OF OCCUPANCY TO THE SATISFACTION OF THE OWNER, THE GOVERNMENTAL AGENCY AND THE ENGINEER OF RECORD.
13. CONTACT THE TECHNICAL SERVICES BUREAU TO DETERMINE THE INSPECTIONS NEEDED FOR THIS FACILITY.
14. ALL REQUIRED FIRE LINES AND FIRE HYDRANTS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO THE START OF CONSTRUCTION.
15. DURING CONSTRUCTION, AN ALL–WEATHER ACCESSIBLE ROADWAY SHALL BE MAINTAINED AT ALL TIMES FOR FIRE APPARATUS.
16. NOTIFY CITY OF DAYTONA BEACH 48 HOURS PRIOR TO THE START OF CONSTRUCTION AT 386–671–8157. PLEASE SEND COPIES OF ALL TESTING REPORTS EXCEPT STRUCTURAL TO THE ENGINEERING DIVISION.

EROSION & SEDIMENT CONTROL NOTES

1. ALL CONSTRUCTION ACTIVITIES SHALL INCORPORATE BEST MANAGEMENT PRACTICES (BMP'S) TO CONTROL EROSION, SEDIMENTATION, AND THE POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
2. CONTRACTOR SHALL MINIMIZE DISTURBANCE OF EXISTING VEGETATION, (PARTICULARLY AROUND THE PROJECT PERIMETER) AND ADJACENT EXISTING DRAINAGE PATTERNS TO THE MAXIMUM EXTENT PRACTICAL DURING THE CONSTRUCTION PROCESS.
3. SILT FENCES AND TURBIDITY BARRIERS SHALL BE INSTALLED ON SITE AND APPROVED BY THE CITY PRIOR TO CONSTRUCTION, AND SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AND CORRECTIVE ACTION TAKEN AS NECESSARY.
4. STORMWATER RETENTION, DETENTION, STORAGE AND CONVEYANCE SYSTEMS MUST BE EXCAVATED TO ROUGH GRADE PRIOR TO BUILDING CONSTRUCTION OR PLACEMENT OF IMPERVIOUS SURFACE WITHIN THE AREA SERVED BY THOSE SYSTEMS. ADEQUATE MEASURES MUST BE TAKEN TO PREVENT SILTATION OF THESE TREATMENT SYSTEMS AND CONTROL STRUCTURES DURING CONSTRUCTION. SILTATION MUST BE REMOVED FROM THE STORMWATER SYSTEM WHEN HALF FULL AND IMMEDIATELY PRIOR TO FINAL GRADING AND GRASSING OF THE PROJECT. CONTRACTOR SHALL SOD ALL SWALES AND STORMWATER FACILITIES IN ACCORDANCE WITH TEMPORARY BMP'S WITHIN 14 DAYS AFTER CONSTRUCTION. THIS IS REQUIRED TO STABILIZE THE SLOPES AND MINIMIZE EROSION.
5. DURING ALL CONSTRUCTION OF THE PERMITTED SYSTEM INCLUDING STABILIZATION AND REVEGETATION OF DISTURBED SURFACES, CONTRACTOR IS RESPONSIBLE FOR THE SELECTION, IMPLEMENTATION, AND OPERATION OF ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN ALL SEDIMENT ONSITE AND PREVENT VIOLATIONS OF THE WATER QUALITY STANDARDS IN ACCORDANCE WITH THE FLORIDA ADMINISTRATIVE CODE AND PROJECT PERMIT REQUIREMENTS.
6. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN A PROTECTIVE COVER (VEGETATIVE OR SUITABLE ALTERNATIVE) FOR EROSION AND SEDIMENT CONTROL ON ALL LAND SURFACES EXPOSED OR DISTURBED BY CONSTRUCTION OF THE PERMITTED PROJECT, UNLESS MODIFIED BY ANOTHER CONDITION OF THE PERMIT OR OTHERWISE SPECIFIED ON A DISTRICT APPROVED EROSION AND SEDIMENT CONTROL PLAN.
7. THE PROTECTIVE COVER MUST BE INSTALLED WITHIN FOURTEEN (14) DAYS AFTER FINAL GRADING OF THE AFFECTED LAND SURFACE. A PERMANENT VEGETATIVE COVER MUST BE ESTABLISHED WITHIN 60 DAYS OF IT'S INSTALLATION. THE PERMITTEE'S REQUIREMENT TO MAINTAIN COVER ON OFFSITE AND ONSITE SURFACES SHALL NOT BE COMPLETE UNTIL AFTER THE WATER MANAGEMENT DISTRICT RECEIVES THE PERMITTEE'S STATEMENT OF COMPLIANCE.
8. AT A MINIMUM, SILT FENCES AND TURBIDITY BARRIERS SHALL BE INSTALLED PER PLAN. ADDITIONAL BMP MEASURES MUST BE TAKEN TO MINIMIZE IMPACTS OF RECEIVING WATERS SUCH AS THE USE OF APPROVED BARRIERS AT INLETS, ADDITIONAL SILT FENCING, SOIL ANTI–TRACKING DEVICES AND SODDING.
9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE PROJECT LIMITS IN COMPLIANCE WITH ALL JURISDICTIONAL PERMIT AND CITY REQUIREMENTS.
10. ANY TIME THE CONTRACTOR NEEDS TO SUBMIT A NOTICE OF INTENT TO USE A GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES, A COPY OF THE PERMIT SHALL ALSO BE SUBMITTED TO THE CITY OF DAYTONA BEACH UTILITIES DEPARTMENT.
11. THE CONTRACTOR SHALL AS A MINIMUM PREPARE AND IMPLEMENT AN EROSION AND SEDIMENT CONTROL PLAN IN ACCORDANCE WITH FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) GUIDELINES
12. DEWATERING ACTIVITIES SHALL BE APPROVED BY THE UTILITIES DEPARTMENT BEFORE DISCHARGING INTO THE CITY'S MS4 SYSTEM (ST–1A NOTE 3).

TRAFFIC CONTROL NOTES:

1. CONTRACTOR SHALL PERFORM ALL PROJECT WORK IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION FY 2018–2019 STANDARD PLANS. NO LANE CLOSURES ARE PERMITTED BETWEEN THE HOURS OF 7 A.M. AND 7 P.M. NIGHT WORK IS NOT PERMITTED.
2. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL OF HIS MAINTENANCE OF TRAFFIC (MOT) PLANS FOR ANY LANE CLOSURES FROM THE CITY TRAFFIC ENGINEERING DIVISION AT LEAST TWO (2) WEEKS IN ADVANCE OF ANY LANE CLOSURE.
3. EXISTING SIGNING AND PAVEMENT MARKINGS TO BE MAINTAINED UNLESS SHOWN OTHERWISE IN THESE PLANS.
4. TWO (2) WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT ENTIRE LENGTH OF PROJECT, UNLESS APPROVED BY THE CITY.
5. TWO (2) WAY ACCESS TO BUSINESSES AND PRIVATE DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. TEMPORARY DRIVEWAY CLOSURES MAY BE ALLOWED IF SHARED ACCESS IS AVAILABLE OR IF WRITTEN AUTHORIZATION FROM THE PROPERTY OWNER IS PROVIDED TO CITY PRIOR TO COMMENCEMENT OF WORK ACTIVITIES.
6. VARIABLE MESSAGE BOARDS SHALL BE INSTALLED 48 HOURS PRIOR TO LANE CLOSURES. CONTRACTOR IS RESPONSIBLE FOR ADEQUATE NUMBER OF BOARDS AND LOCATIONS, TO BE VERIFIED PRIOR TO COMMENCEMENT OF WORK.
7. ALL TRAFFIC CONTROL SIGN AND PAVEMENT MARKINGS SHALL COMPLY WITH THE F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2018–2019 EDITION.
8. CONTRACTOR TO MAINTAIN TRAFFIC AND PROPER DROP OFF CRITERIA PER INDEX 102–600. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING PROPER DEVICES WHEN A DROP OFF CONDITION CANNOT BE AVOIDED.
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE GENERAL PUBLIC AND PUBLIC AGENCIES OF ROAD CLOSURES AT LEAST 48 HOURS IN ADVANCE.
10. AFFECTED ROADWAYS SHALL BE RESTORED AND NO LANE CLOSURES WILL BE PERMITTED DURING THE CITY OF DAYTONA BEACH SPECIAL EVENT PERIOD UNLESS PRIOR WRITTEN NOTIFICATION IS OBTAINED FROM CITY OF DAYTONA BEACH TRAFFIC ENGINEERING DIVISION.

SITE CLEARING AND GRADING NOTES

THE FOLLOWING REPRESENTS MINIMUM STANDARDS TO BE ADHERED TO BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION OF A PROJECT. THE CITY RESERVES THE RIGHT TO REQUIRE ADDITIONAL MEASURES TO BE EMPLOYED WHEN WARRANTED BY EXTREME CONDITIONS AND/OR THE FAILURE OF THE CONTRACTOR TO EMPLOY THE APPROPRIATE EROSION CONTROL BEST MANAGEMENT PRACTICES. FAILURE TO COMPLY WITH THESE PROVISIONS SHALL RESULT IN THE ISSUANCE OF A "STOP WORK ORDER".

1. NO DISTURBANCE OF EXISTING OR PROPOSED CONSERVATION EASEMENTS, NATURAL BUFFERS, OR WATER BODIES IS PERMITTED WITHOUT PRIOR APPROVAL FROM THE CITY ENGINEER OR DESIGNEE. THE CONTRACTOR SHALL LOCATE THESE AREAS ON SITE AND BARRICADE THEM TO AVOID ANY UNAUTHORIZED CLEARING. BARRICADES AND OTHER PROTECTIVE FENCING ARE TO BE LOCATED AT THE DRIP LINE OF EXISTING NATIVE TREES OR AT THE EDGE OF THE NATIVE UNDER–STORY HABITAT, WHICHEVER IS NEAREST TO THE CONSTRUCTION ACTIVITY.
2. SPECIMEN AND HISTORIC TREES, CONSERVATION EASEMENTS, NATURAL VEGETATION BUFFERS, AND SIMILAR AREAS MUST BE PROTECTED BY BARRICADES OR FENCING PRIOR TO CLEARING. BARRICADES ARE TO BE SET AT THE DRIP LINE OF THE TREES AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. BARBED WIRE IS NOT PERMITTED AS A PROTECTIVE BARRIER.
3. WHERE A CHANGE OF GRADE OCCURS AT THE DRIP LINE OF A SPECIMEN TREE, SILT FENCE WILL BE REQUIRED DURING CONSTRUCTION AND RETAINING WALLS MUST BE INSTALLED PRIOR TO FINAL ACCEPTANCE BY THE CITY.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL PROTECTIVE VEGETATION BARRICADES AND EROSION CONTROL STRUCTURES AND MEASURES IN PLACE PRIOR TO THE COMMENCEMENT OF ANY EARTHWORK, INCLUDING PRELIMINARY GRUBBING. THESE MEASURES INCLUDE, BUT ARE NOT LIMITED TO, TEMPORARY CONSTRUCTION FENCES, SYNTHETIC JUTE BALES, SILT FENCES, AND FLOATING TURBIDITY BARRIERS. FURTHER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL EROSION CONTROL DEVICES THROUGHOUT THE DURATION OF THE ENTIRE PROJECT. MAINTENANCE SHALL INCLUDE PERIODIC INSPECTION AND REMOVAL OF DEBRIS ABUTTING EROSION CONTROL DEVICES IN ACCORDANCE WITH THE CITY'S UTILITY DEPARTMENT STANDARDS.

SITE CLEARING AND GRADING NOTES (CONT.)

5. PRIOR TO THE INSTALLATION OF ANY FILL MATERIAL ON SUBJECT SITE, SILT FENCE SHALL BE INSTALLED:
    a. ALONG SUBJECT SITE BOUNDARY AND PROPERTY LINES.
    b. AT THE EDGE OF CONSERVATION EASEMENTS AND WETLANDS.
    c. ADJACENT TO NATURAL LANDSCAPE BUFFERS.
    d. AROUND THE PERIMETER OF EXISTING STORM WATER TREATMENT FACILITIES.
    e. AT ANY ADDITIONAL AREAS THAT THE CITY DEEMS NECESSARY TO BE PROTECTED FROM POTENTIAL EROSION IMPACTS DURING CONSTRUCTION. THESE CONDITIONS SHALL APPLY IN ALL INSTANCES WHERE FILL MATERIAL IS BEING INSTALLED WITHIN 25 FEET OF ANY OF THE AFOREMENTIONED LOCATIONS. WHILE THESE ITEMS REPRESENT THE MINIMUM REQUIREMENTS, THE CITY RESERVES THE RIGHT TO IMPOSE ADDITIONAL PROTECTIVE MEASURES, AS DETERMINED DURING ACTUAL SITE VISITS CONDUCTED AS PART OF THE STANDARD REVIEW OF THE SITE–SPECIFIC CLEARING PERMIT AND THROUGHOUT PROJECT CONSTRUCTION.
6. WHERE FILL MATERIAL IS INTENDED TO BE INSTALLED ADJACENT TO EXISTING VEGETATION WHICH IS INTENDED TO REMAIN NATURAL, THE CONTRACTOR MAY INSTALL SILT FENCING AS A TREE PROTECTION MEASURE, IN LIEU OF INSTALLING EITHER WOOD BRACING OR ORANGE MESH FENCING. THIS PRACTICE IS ENCOURAGED BY THE CITY. IF THE SILT FENCE FAILS TO PROVIDE ADEQUATE PROTECTION FROM IMPACT DUE TO CONSTRUCTION, THEN ADDITIONAL CONSTRUCTION FENCING OR WOOD BRACING SHALL BE REQUIRED.
7. AT A MINIMUM, THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS. GRASS COVERAGE IS TO BE ESTABLISHED WITHIN THIRTY DAYS.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THROUGH SCHEDULING, TO MINIMIZE THE DISTURBANCE OF SITE AREAS THAT HAVE BEEN BROUGHT TO THEIR PROPOSED FINAL GRADE. WITHIN TWENTY DAYS OF BRINGING A SUBJECT AREA TO ITS FINAL GRADE, THE CONTRACTOR SHALL INSTALL SEED AND MULCH OR SOD AND WATERING, AS REQUIRED.
9. FOR INDIVIDUAL CONSTRUCTION PROJECTS INVOLVING MULTIPLE PHASES, UPON COMPLETION OF EACH PHASE OF THE PROJECT, SEEDING AND MULCHING AND OR/ SODDING IS TO BE PERFORMED PRIOR TO COMMENCING THE NEXT PHASE OF CONSTRUCTION.
10. ONCE AN AREA IS SEEDED OR SODDED, IT MUST BE MAINTAINED, INCLUDING WATERING AND TRIMMING BY THE CONTRACTOR TO ALLOW THE GRASS TO BECOME ESTABLISHED.
11. ALL BURNING OF CLEARED MATERIALS MUST BE APPROVED AND PERMITTED THROUGH THE FL FOREST SERVICE, BUNNELL OFFICE.
12. ABSOLUTELY NO BURYING OF CLEARED & GRUBBED MATERIALS IS PERMITTED.
13. THE REMOVAL OF ALL VEGETATION AND TOPSOIL ON THE FUTURE ROADWAY, PARKING AND BUILDING LOT AREAS IS REQUIRED TO BE COMPLETED PRIOR TO THE PLACEMENT OF FILL ON THOSE AREAS. THE TOPSOIL MAY BE TEMPORARILY STOCKPILED AND USED AS TOPSOIL OVER PROPOSED GREEN AREAS SUCH AS PLANT BEDS, SODDED AREAS, AND WHERE TREES ARE TO BE INSTALLED OR RELOCATED. TEMPORARY STOCKPILE SLOPES SHALL NOT EXCEED 4:1 (H:V).
14. A SIGNED, DATED, AND SEALED LETTER FROM A SOILS ENGINEER OR THE ENGINEER OF RECORD CERTIFYING THAT THE AREAS TO BE FILLED HAVE BEEN STRIPPED OF ORGANIC MATERIALS, MUST BE SUBMITTED TO THE CITY PRIOR TO FILLING.
15. IF ANY MUCK OR ANY UNSUITABLE MATERIAL IS DISCOVERED, IT SHALL BE REMOVED AND REPLACED WITH A SUITABLE MATERIAL THAT IS PROPERLY BACKFILLED, COMPACTED AND TESTED USING AASHTO T–180 MODIFIED PROCTOR METHOD.
16. STOCKPILING IS NOT GENERALLY PERMITTED BY THE CITY. WHEN ALLOWED, STOCKPILES SHALL NOT EXCEED SIX FEET IN HEIGHT MEASURED FROM THE ORIGINAL GRADE. AT A MINIMUM, STOCK PILES THAT WILL REMAIN IN PLACE IN EXCESS OF FIVE DAYS SHALL BE COVERED OR WATERED TO MINIMIZE THE ADVERSE IMPACT ON ADJACENT PROPERTY OWNERS AT NO ADDITIONAL COST TO THE CITY OR OWNER. SEED AND MULCH IMMEDIATELY UPON PLACEMENT OF THE FINAL LIFT.
17. SOILS ARE TO BE STABILIZED BY WATER OR OTHER MEANS DURING CONSTRUCTION. THIS IS INTENDED TO REDUCE SOIL EROSION AND THE IMPACT TO NEIGHBORING COMMUNITIES. ADEQUATE WATERING METHODS SHOULD BE EMPLOYED TO ALLOW DAILY COVERAGE OF THE ENTIRE LIMITS OF ALL AREAS THAT DO NOT HAVE AN ESTABLISHED VEGETATIVE COVER. METHODS TO BE EMPLOYED INCLUDE, BUT ARE NOT LIMITED TO, WATER TRUCKS, PERMANENT IRRIGATION SYSTEMS, TEMPORARY SPRINKLER SYSTEMS OPERATED BY PUMPING UNITS CONNECTED TO WET RETENTION PONDS, WATER CANNONS, TEMPORARY IRRIGATION SYSTEMS MOUNTED ATOP STOCKPILE AREAS, AND OTHER METHODS AS DEEMED NECESSARY BY THE CITY.
18. ALL FILL MATERIALS LOCATED BENEATH STRUCTURES AND PAVEMENT SHALL CONSIST OF CLEAN GRANULAR SAND FREE FROM ORGANICS AND SIMILAR MATERIAL THAT COULD DECOMPOSE.
19. ALL FILL TO BE PLACED IN LANDSCAPED AREAS SHALL HAVE A Ph RANGE BETWEEN 5.5 AND 7.5, BE ORGANIC IN NATURE, FREE OF ROCKS AND DEBRIS, OR MATCH NATIVE EXISTING SOILS.

FDOT GENERAL NOTES

1. MAINTENANCE OF TRAFFIC TO BE SUPERVISED BY ADVANCED TRAFFIC CONTROL CERTIFICATION.
2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT A MINIMUM OF TWO BUSINESS DAYS PRIOR TO ANY LANE CLOSURES OR BEGINNING ANY CONSTRUCTION WITHIN THE FDOT RIGHT–OF–WAY.
3. ALL WORK PERFORMED WITHIN THE FDOT RIGHT–OF–WAY SHALL BE IN ACCORDANCE WITH THE FY 2018–2019 STANDARD PLANS FOR FOR ROAD AND BRIDGE CONSTRUCTION, AND THE UTILITY ACCOMMODATION MANUAL.
4. IF THE DEPARTMENT DETERMINES THAT AS–BUILT CONDITIONS VARY SIGNIFICANTLY FROM THE APPROVED PLANS, THE PERMITTEE SHALL PROVIDE AS–BUILT PLANS, ALONG WITH A RECORD DRAWINGS REPORT BY PERMITTEE'S PROFESSIONAL ENGINEER, FORM 850–040–19, WITHIN 30 DAYS.
5. IT WILL BE THE RESPONSIBILITY OF THE PERMITTEE TO REPAIR ANY DAMAGE TO FDOT FACILITIES CAUSED BY CONSTRUCTION OF THE PROJECT.
6. TEST RESULTS OF ANY TESTS TAKEN FOR OR DURING CONSTRUCTION OF THE PERMITTED WORK SHALL BE PROVIDED TO THE FDOT UPON REQUEST.
7. ALL CONCRETE TO BE REMOVED SHALL BE SAW CUT AT THE NEAREST JOINT IN GOOD CONDITION, SO AS TO PRODUCE A CONNECTION WITH NEW CONCRETE THAT IS FREE OF CRACKS, DEFORMITY IN SHAPE, NOTICEABLE VOIDS, SURFACE IRREGULARITIES, AND OTHER DEFECTS.
8. ALL MATERIALS INSTALLED WITHIN FDOT RIGHT OF WAY SHALL BE LIMITED TO THOSE ON THE FDOT'S QUALIFIED PRODUCTS LIST OR APPROVED PRODUCT LIST OF TRAFFIC CONTROL SIGNALS AND DEVICES.

AS–BUILT DRAWING REQUIREMENTS

IN ORDER TO ENSURE THAT NEW SUBDIVISIONS AND SITE PLANS ARE CONSTRUCTED SUBSTANTIALLY IN ACCORDANCE WITH CITY REGULATIONS AND THE APPROVED DRAWINGS, THE FOLLOWING INFORMATION IS REQUIRED ON ALL AS–BUILT DRAWINGS.

1. PAVEMENT AND CURB WIDTHS SHALL BE VERIFIED AND DIMENSIONED FOR EACH STREET AT EACH BLOCK. (FOR SUBDIVISIONS) AND AS APPROPRIATE TO CONFIRM PAVING LIMITS (ON SITE PLANS).
2. ALL RADII AT INTERSECTIONS SHALL BE VERIFIED AND DIMENSIONED. THIS INFORMATION IS TO BE CLEARLY INDICATED ON THE AS–BUILT.
3. ALL APPLICABLE TOPOGRAPHIC INFORMATION PERTINENT TO THE ON–SITE DRAINAGE SYSTEM, SUCH AS DITCHES, SWALES, LAKES, CANALS, ETC. THAT ARE DEEMED NECESSARY BY THE CITY TO VERIFY THE FUNCTIONAL PERFORMANCE OF THE STORM WATER SYSTEM, SHALL BE NOTED. NORMALLY, RECORDING ELEVATIONS EVERY 100 FEET AT THE TOP OF BANK AND TOE OF SLOPE WILL BE REQUIRED. MEASUREMENTS SHALL BE TAKEN AND RECORDED IN ORDER TO ACCURATELY TIE DOWN THESE FEATURES TO THE ROADWAY CENTERLINES AND TO PLAT LINES. WHENEVER POSSIBLE, CONTOUR LINES SHALL BE UTILIZED TO GRAPHICALLY DESCRIBE THESE TOPOGRAPHIC FEATURES.
4. RETENTION AREAS SHALL HAVE THEIR TOP–OF–BANK AND BOTTOM ELEVATIONS RECORDED. ACTUAL MEASUREMENTS SHALL BE TAKEN AND DIMENSIONS RECORDED OF THE SIZE OF ALL RETENTION AREAS. MEASUREMENTS SHALL BE DONE FROM TOP–OF–BANK TO TOP–OF–BANK WITH SIDE SLOPES INDICATED. SEPARATE CALCULATIONS SHALL BE SUBMITTED TO INDICATE REQUIRED AND PROVIDED RETENTION VOLUMES.
5. ACTUAL MATERIALS USED AND ELEVATIONS AND DIMENSIONS OF OVERFLOW WEIR STRUCTURES AND SKIMMERS SHALL BE NOTED ON THE AS–BUILT.
6. STORM DRAINAGE SWALE CENTERLINES SHALL BE LOCATED AND ELEVATIONS OF FLOW LINE AND TOP OF BANK SHALL BE RECORDED EVERY 100 FEET OR CHANGE IN GRADE. SIDE SLOPES SHALL ALSO BE INDICATED.
7. FOR SUBDIVISIONS, PROPOSED DESIGN FINISHED FLOOR ELEVATIONS SHALL APPEAR ON ALL SUBDIVISION LOTS ON THE APPROPRIATE PLAN AND PROFILE SHEET AS WELL AS ON THE MASTER DRAINAGE PLAN.
8. ANY SPECIAL FEATURES SUCH AS, CONCRETE FLUMES, LAKE BANKS, WALLS, FENCING, ETC., WHICH WERE A PART OF THE APPROVED CONSTRUCTION DRAWINGS SHOULD ALSO BE LOCATED AND DIMENSIONED.
9. IF AN APPROVED SUBDIVISION PLAT OR SITE PLAN SHOWS A CONSERVATION EASEMENT, THE PROJECT SURVEYOR SHOULD PROVIDE THE EXACT LOCATION OF THE SPECIMEN TREE(S) FROM THE RIGHT–OF–WAY OR PROPERTY LINES AND PROPOSED EASEMENT BOUNDARIES ON THE AS–BUILT DRAWING. THE AS–BUILT LOCATION OF THESE TREES WILL HELP VERIFY THE SUFFICIENCY OF THE CONSERVATION EASEMENT PRIOR TO PLAT RECORDING OR CERTIFICATE OF OCCUPANCY.
10. AS BUILT DRAWINGS ARE TO BE PREPARED BY A FLORIDA LICENSED SURVEYOR AND SHALL INCLUDE A SIGNED CERTIFICATION STATEMENT BY THE FLORIDA LICENSED ENGINEER OF RECORD. TWO (2) SIGNED & SEALED PAPER SETS OF AS–BUILT RECORD DRAWINGS SHALL BE PROVIDED ALONG WITH A DIGITAL COPY IN BOTH, A COMPATIBLE AutoCAD FORMAT & PDF FORMAT.

STORMWATER CONSTRUCTION NOTES

1. ALL MATERIALS AND INSTALLATION AND SEDIMENT AND EROSION CONTROL METHODS USED FOR LAND DEVELOPMENT CODE REQUIRED IMPROVEMENTS FOR SUBDIVISIONS AND SITE PLANS SHALL BE IN CONFORMANCE WITH THE CITY, FDEP, FLORIDA DEPARTMENT OF TRANSPORTATION FY 2018–2019 STANDARD PLANS. THE USE OF BEST MANAGEMENT PRACTICES (BMP'S) IS REQUIRED.
2. SITE SPECIFIC PERMITS SHALL REQUIRE THE PAYMENT OF A PER ACRE FEE BASED ON THE SIZE OF THE BEST MANAGEMENT PRACTICES (BMP'S) FOR EROSION AND SEDIMENT CONTROL SHALL BE PLANNED, DESIGNED AND IMPLEMENTED THROUGHOUT THE SITE DEVELOPMENT ENGINEERING AND CONSTRUCTION PHASES.
3. ALL DEWATERING ACTIVITIES EITHER DIRECTLY DISCHARGED OR THAT SUBSEQUENTLY USE THE CITY'S STORMWATER SYSTEM TO CONVEY GROUND OR SURFACE WATER FROM A SITE SHALL REQUIRE A STANDARD OR GENERAL USE PERMIT AS PER ARTICLE 7 SECTION 7 OF THE LAND DEVELOPMENT CODE. A PERMIT SHALL BE REQUIRED PRIOR TO ENGAGING IN ANY DEWATERING ACTIVITIES, OR IN ANY CON–STRUCTION ACTIVITIES. DEWATERING ACTIVITIES INCLUDE THE REMOVAL OF GROUND WATER FROM A CONSTRUCTION SITE, INCLUDED VAULT, COFFERDAM, OR TRENCHES ALLOWING CONSTRUCTION OR MAINTENANCE TO BE DONE IN THE DRY, OR ANY ACTIVITY WHICH CHANGES THE IMPERVIOUS AREA OF LAND DEVELOPMENT. GENERAL PURPOSE PERMITS SHALL REQUIRE THE PAYMENT OF AN ANNUAL FEE BASED ON ROUTINE SCHEDULE OF MAINTENANCE ACTIVITIES DISCHARGING DIRECTLY OR SUBSEQUENTLY INTO THE CITY'S MS4. DEWATERING PERMIT APPLICATIONS ARE FOUND AT http://www.codb.us/index.aspx?NID=262. FEES ARE SUBJECT TO ARTICLE 20 SECTION 3.1 OF THE LAND DEVELOPMENT CODE AND MUST BE SUBMITTED TO THE CITY OF DAYTONA BEACH UTILITY DEPARTMENT AT 125 BASIN STREET SUITE 130, DAYTONA BEACH FL 32114 BEFORE ANY USE OF THE MS4 WILL BE ALLOWED. FAILURE TO COMPLY WILL RESULT IN THE TERMINATION OF ACCESS TO THE CITY'S MS4 SYSTEM.
4. CONTRACTOR SHALL FOLLOW REQUIRED EROSION AND SEDIMENT CONTROL PRACTICES AND INCLUDE AN EROSION CONTROL PLAN FOR REVIEW AND APPROVAL BY THE CITY PRIOR TO CONSTRUCTION. ALL CONSTRUCTION ACTIVITIES SHALL CONFORM TO THE CITY'S EROSION AND SEDIMENT CONTROL STANDARD DETAILS ST–5.
5. CONTRACTOR WILL FOLLOW ALL OF THE CITY'S REQUIRED WASTE MANAGEMENT PRACTICES. ALL CONSTRUCTION, RENOVATION, AND DEMOLITION SITES ARE TO BE KEPT CLEAN AND FREE OF REFUSE, DEBRIS, AND LITTER DURING THE CONSTRUCTION, RENOVATION, OR DEMOLITION PROCESS. A CERTIFICATE OF OCCUPANCY FOR A NEWLY CONSTRUCTED OR RENOVATED BUILDING SHALL NOT BE ISSUED UNTIL ALL REFUSE AND LITTER CAUSED BY THE CONSTRUCTION OR REMODELING IS REMOVED FROM THE SITE AS PER THE DAYTONA BEACH CODE OF ORDINANCES CHAPTER 28 SECTION 78–5 AND 78–8.
6. ALL DEVELOPMENT PLANS SHALL BE CONSISTENT WITH THE DAYTONA BEACH LAND DEVELOPMENT CODE ARTICLE 1 PURPOSE ADMINISTRATION AND ENFORCEMENT, ARTICLE 5 SECTION 2 STORMWATER MANAGEMENT, ARTICLE 4 LAND DEVELOPMENT ORDERS AND PROCEDURES, ARTICLE 5 SUBDIVISION AND SITE PLANS SECTION AND ARTICLE 7 SECTION 4 FLOOD PLAIN MANAGEMENT.
7. PIPED STORMWATER SYSTEMS SHALL HAVE A MINIMUM DRAINAGE MAINTENANCE EASEMENT AND ACCESS WIDTH OF 20 FEET, AND MAY BE INCREASED DEPENDING UPON THE SIZE AND DEPTH OF PIPE.
8. CONCRETE EROSION CONTROL BMP'S MUST BE PROVIDED WHERE SWALES OR CULVERTS INTERCEPT DRAINAGE DITCHES.
9. SOIL EROSION AND SEDIMENT CONTROL BMP MEASURES, SATISFACTORY TO THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, FDEP AND THE CITY, SHALL BE EMPLOYED DURING CONSTRUCTION.
10. IN GENERAL, ALL RETENTION/DETENTION SITES MUST BE CONSTRUCTED AND VEGETATED AS NECESSARY ON ALL PROJECTS PRIOR TO ANY ROAD, PARKING LOT, OR BUILDING CONSTRUCTION COMMENCING OR AS CURRENT PERMIT CONDITIONS DICTATE. SEWER AND WATER MAINS MAY BE INSTALLED PRIOR TO RETENTION/DETENTION SITE CONSTRUCTION IF DEWATERING IS NOT REQUIRED. HOWEVER BMP'S FOR EROSION AND SEDIMENT CONTROL WILL BE IMPLEMENTED AS NECESSARY.
11. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ANY AND ALL DEWATERING PERMITS THAT MAY BE REQUIRED (SEE ST–1 NOTE 3).
12. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND MAINTAIN A COPY OF THE SJRWMD, NPDES, AND ALL OTHER JURISDICTIONAL PERMITS AT THE CONSTRUCTION SITE, AND ABIDE BY ALL CONDITIONS OF THOSE PERMITS.
13. LANDSCAPE PLANS SHALL CLEARLY DEPICT THE DESIGN LOCATION OF TEMPORARY AND PERMANENT PLANTINGS RELATIVE TO THE LOCATION OF PUBLIC UTILITIES AND STORMWATER INFRASTRUCTURE IN ORDER TO EVALUATE POTENTIAL CONFLICTS.
14. THE MAXIMUM PERMISSIBLE SLOPE OF ANY NEW SITE GRADING IS 1:3 (VERTICAL:HORIZONTAL). THIS LIMIT SHALL BE APPLIED TO ALL AREAS EXCEPT STORMWATER CONVEYANCE AND TREATMENT SYSTEMS WHICH HAVE A MAXIMUM SIDE SLOPE OF 1:4 (EXCEPT BELOW THE WATER TABLE

BASE BID

PAY ITEM	DESCRIPTION	UNIT	QTY
I. BASE BID			
0101-1	Mobilization (10%)	LS	1
0102-1	Maintenance of Traffic (6%)	LS	1
0104-10-3	Sediment Barrier	LF	13,855
0104-18	Inlet Protection (Per Inlet)	EA	13
0110-1-1	General Clearing and Grubbing	LS	1
0110-4-10	Removal of Existing Concrete Pavement	SY	2,234
0110-7-1	Mailbox, F&I Single	EA	8
0120-6	Embankment	CY	312
0160-4	Type B Stablization	SY	5,785
0285-706	Optional Base, Base Group 06, Recycled Concrete Aggregate, LBR	SY	635
0334-1-12	Superpave Asphaltic Concrete, Traffic	TN	83
0425-1521	Inlet, DT Bottom, Type C, <10'	EA	5
0425-1523	Inlet, DT Bottom, Type C, J Bott <10'	EA	3
0425-2-71	Manholes, J Bottom <10'	EA	6
0425-14-1	Grate for Exist. Drainage Structure,	EA	1
0430174115	Pipe Culvert, RCP, 15" SD	LF	23
0430174130	Pipe Culvert, RCP, 30" SD	LF	51
0520-2-4	Concrete Type D Curb	LF	73
0522-1	Concrete Sidewalk and Driveways, 4" Thick	SY	4,735
0522-2	Concrete Sidewalk and Driveways, 6" Thick	SY	515
0527-2	Detectable Warnings	SF	770
0570-1-2	Performance Turf, Sod (Bahia)	SY	4,035
0639-1410	Electrical Power Service, REL	AS	4
0700-1-50	Single Post Sign, Relocate	AS	21
0711-11123	Thermoplast, Standard, White Solid	LF	2,305
0711-11125	Thermoplast, Standard, White Solid	LF	96
0711-17	Thermoplastic, Remove Existing Thermoplastic Markings: Non-Conflicting Only	SF	484
1080-15	Utility Fixtures, Adjust & Modify	EA	9
550-10418	Fencing, Wood Fence, 0.0-5.0', Reset Existing	LF	142
550-10918	Fencing, Wire, 0.0-5.0', Reset Existing	LF	293

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DERBYSHIRE SIDEWALKS
PHASE 2
90% ENGINEERING PLANS
SUMMARY OF PAY ITEMS
CITY OF DAYTONA BEACH
VOLUSIA COUNTY, FL

PROJECT NO: ZC17045
ISSUE DATE: 03-26-2018
DESIGNED BY: KR
DRAFTED BY: TL
CHECKED BY: BWS
DRAWING FILE: 02A_17045PH2_SPI
XREFS: 17045PH2-TIB.dwg
XREF'S:

KRISTOPHER ROWLEY, P.E. NO. 84263
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SCALE: AS NOTED

SHEET: C2A OF 31

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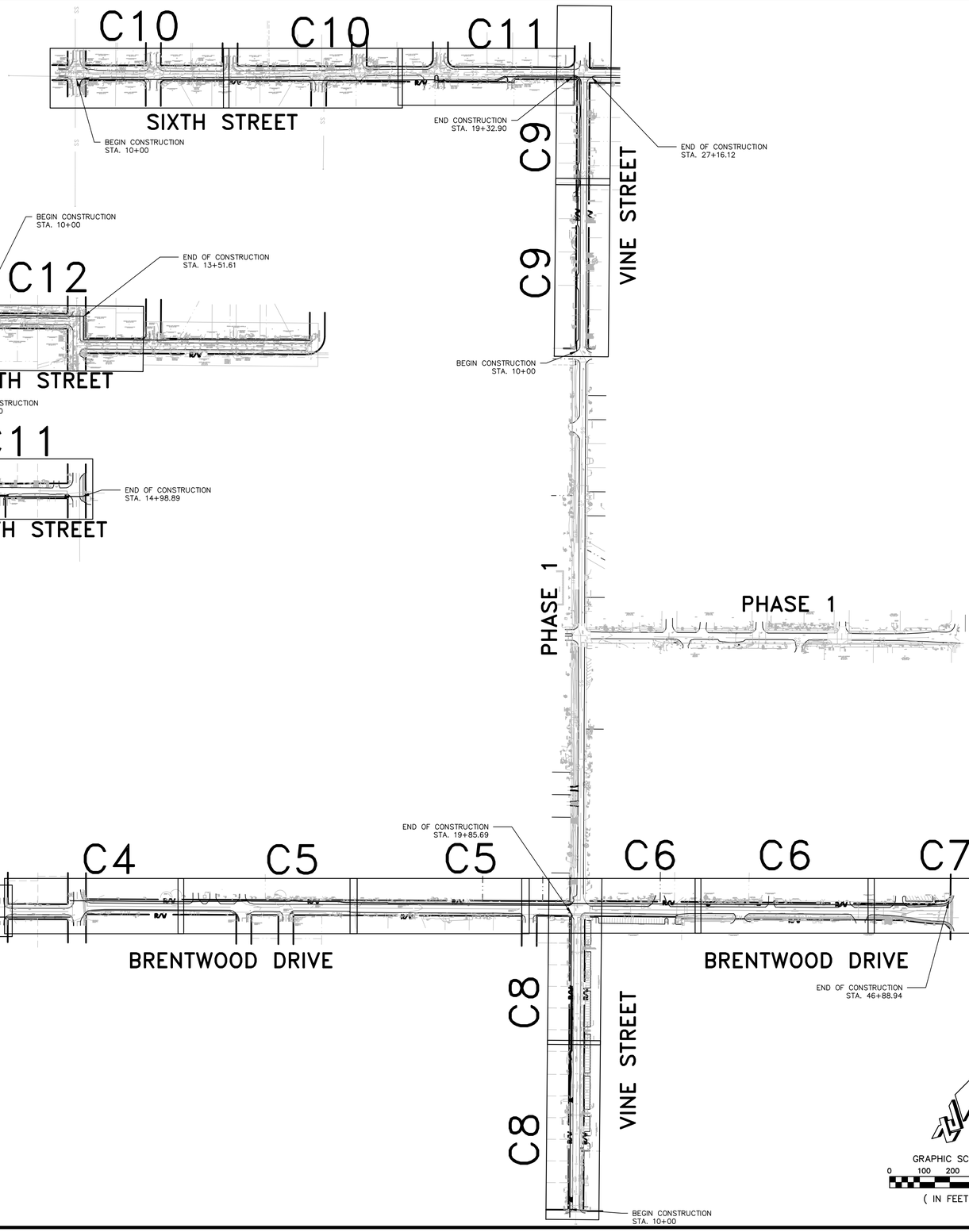
SURVEYORS LEGEND IS FOR REFERENCE ONLY

SYMBOL LEGEND

HVAC	ELM TREE	METAL LIGHT POLE	STORM SEWER FLAG
AIR RELEASE VALVE	ELECTRIC MANHOLE	METAL UTILITY POLE	STORM SEWER MANHOLE
ANTENNA	EUCALYPTUS TREE	METAL UTILITY POLE WITH TRANSMISSION	STORM SEWER PUMP STATION
APPLE TREE	FIBER OPTIC FLAG	MITERED END SECTION	STORM SEWER MARKER
BACKFLOW PREVENTER	FIBER OPTIC MARKER	MONITORING WELL	STORM SEWER VAULT
BANYAN TREE	FIRE HYDRANT	NAIL AND TAB FOUND	STUMP
BAY TREE	FLAG POLE	NAIL AND TAB SET	SWEETGUM TREE
BEECH TREE	FORCEMAIN FLAG	NAIL FOUND	SYCAMORE TREE
BENCHMARK FOUND	FORCEMAIN MARKER	NAIL SET	TELECOM CABINET
BENCHMARK SET	FORCEMAIN VALVE	NGS MONUMENT	TELECOM FLAG
BIRCH	GAS BLOWOFF	OAK TREE	TELECOM JUNCTION BOX
BOLLARD	GAS FLAG	OLEANDER BUSH	TELECOM MANHOLE
BUSH	GAS MARKER	PALM TREE	TELECOM MARKER
CABLE TELEVISION RISER	GAS METER	PARK BENCH	TELECOM RISER
CACTUS	GAS VALVE	PEDESTRIAN SIGNAL POLE	TELECOM VAULT
CAMPHOR	GAS VENT	PINE TREE	TRAFFIC MAST ARM
CATCH BASIN ROUND	GAS WELL	PK NAIL FOUND	TRAFFIC SIGNAL BOX
CATCH BASIN SQUARE	GENERATOR	PK NAIL SET	TRAFFIC SIGNAL CABINET
CEDAR	GOLDEN RAIN TREE	POST	TRAFFIC SIGNAL POLE
CHINABERRY	GREASE MANHOLE	RR CROSSING GATE	TRANSFORMER
CITRUS	GUY ANCHOR	RR CROSSING SYMBOL	TREE CLUSTER
CLEANOUT	HANDICAP SYMBOL	RECLAIMED WATER FLAG	UNKNOWN TREE
CONCRETE LIGHT POLE	HICKORY TREE	RECLAIMED WATER MANHOLE	VENT
CONCRETE MONUMENT FOUND	HOLLY	RECLAIMED WATER VAULT	WATER BLOWOFF
CONCRETE MONUMENT SET	HOSE BIB	RECLAIMED WATER MARKER	WATER FLAG
CONCRETE UTILITY POLE	IRON PIPE FOUND	RECLAIMED WATER METER	WATER MANHOLE
CONCRETE UTILITY POLE WITH TRANSFORMER	IRON PIPE SET	RECLAIMED WATER VALVE	WATER MARKER
CREPE MYRTLE	IRON ROD FOUND	ROCK	WATER METER
CURB INLET	IRON ROD SET	ROOF DRAIN	WATER VALVE
CURB INLET P-TOP	IRRIGATION CONTROL VALVE	SANITARY SEWER FLAG	WATER VAULT
CYPRESS	IRRIGATION FLAG	SANITARY SEWER LIFT STATION	WELL
ELECTRIC CABINET	IRRIGATION WELL	SANITARY SEWER MANHOLE	WILLOW TREE
ELECTRIC FLAG	JUNIPER TREE	SANITARY SEWER MARKER	WOOD LIGHT POLE
ELECTRIC JUNCTION BOX	LEFT TURN SYMBOL	SANITARY SEWER VALVE	WOOD UTILITY POLE
ELECTRIC MARKER	LIGHT	SANITARY SEWER VAULT	WOOD UTILITY POLE W/TRANSMISSION
ELECTRIC METER	MAGNOLIA TREE	SATELLITE DISH	X-CUT FOUND
ELECTRIC OUTLET	MAILBOX	SIGN	X-CUT SET
ELECTRIC PANEL	MANGROVE TREE	SPRINKLER	
ELECTRIC VAULT	MAPLE TREE	STORM CONTROL STRUCTURE	



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DERBYSHIRE SIDEWALKS PHASE 2

90% ENGINEERING PLANS OVERALL DEMOLITION AND EROSION CONTROL PLAN

CITY OF DAYTONA BEACH
VOLUSIA COUNTY, FL

PROJECT NO:	ZC17045
ISSUE DATE:	03-26-2018
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XREF'S:	17045PH2-TIB.dwg

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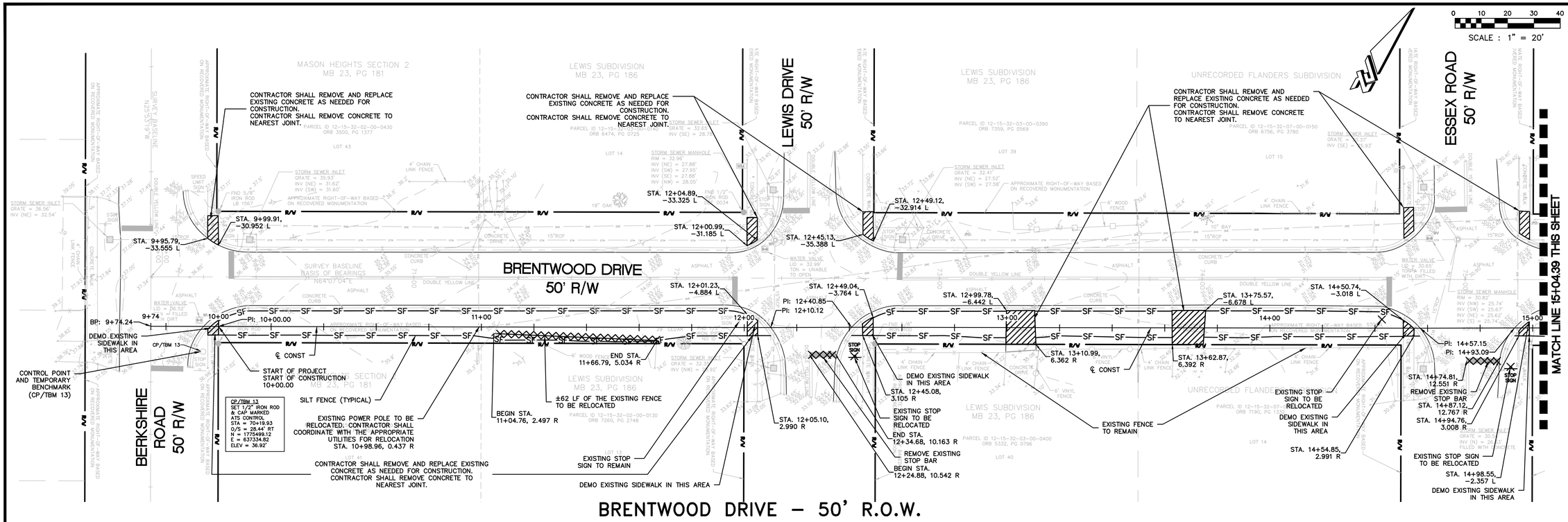

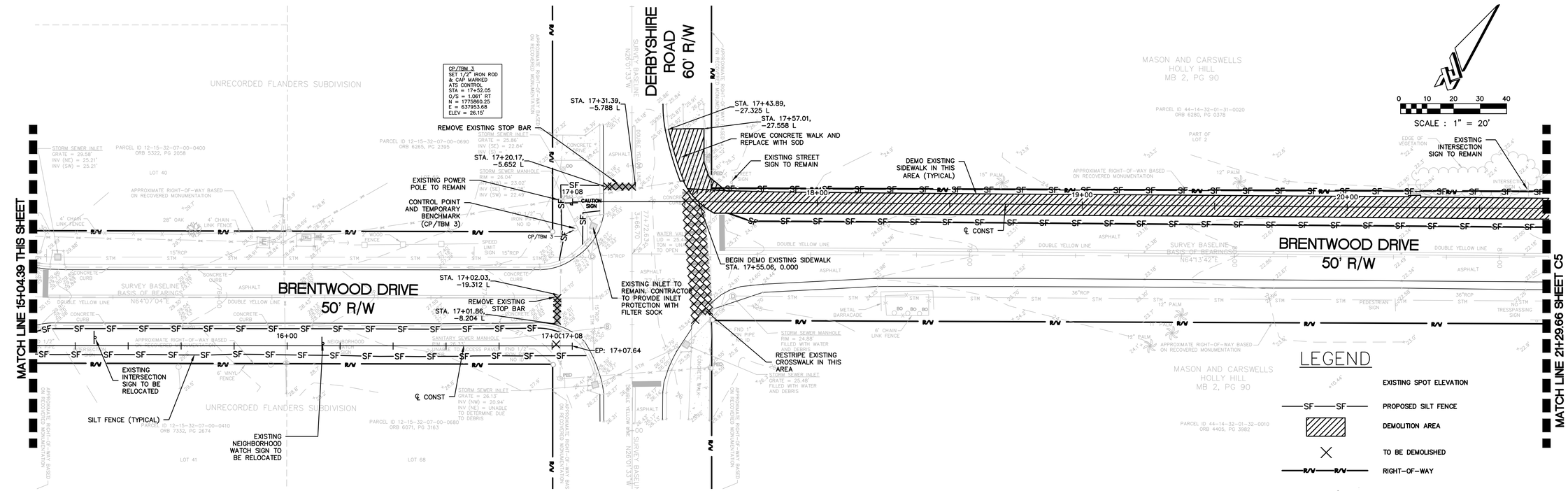

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CITY OF DAYTONA BEACH

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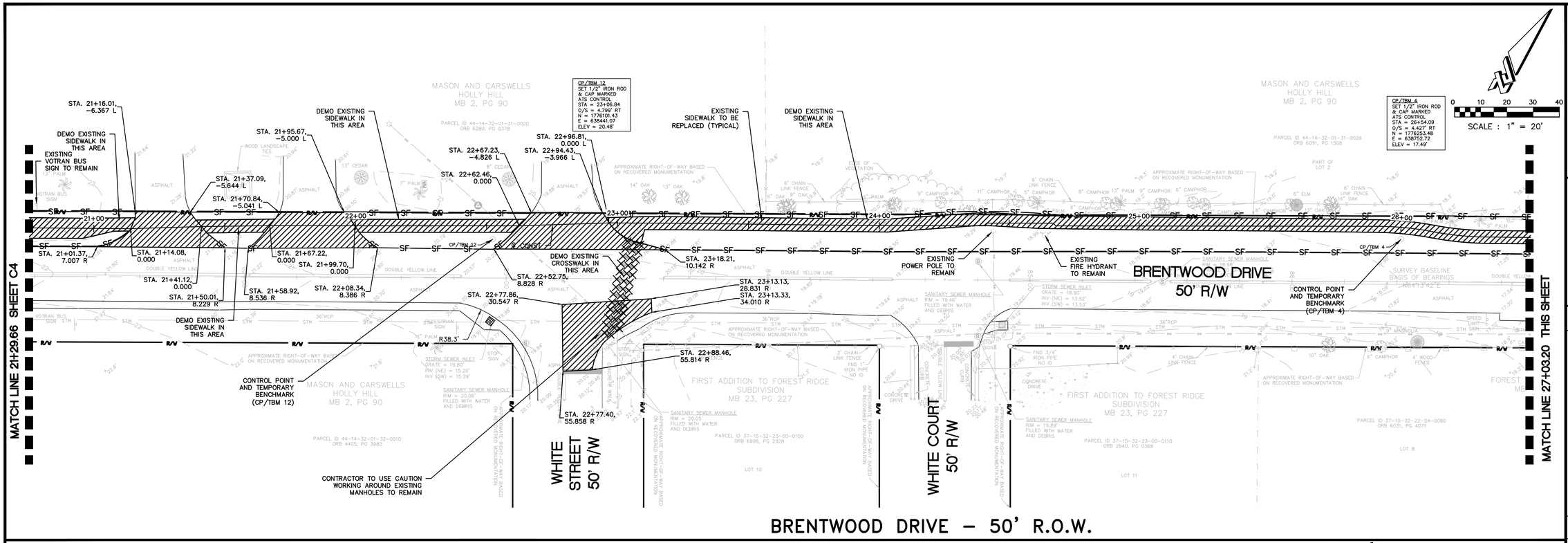

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VOLUSIA COUNTY, FL
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SCALE: 1"=20'

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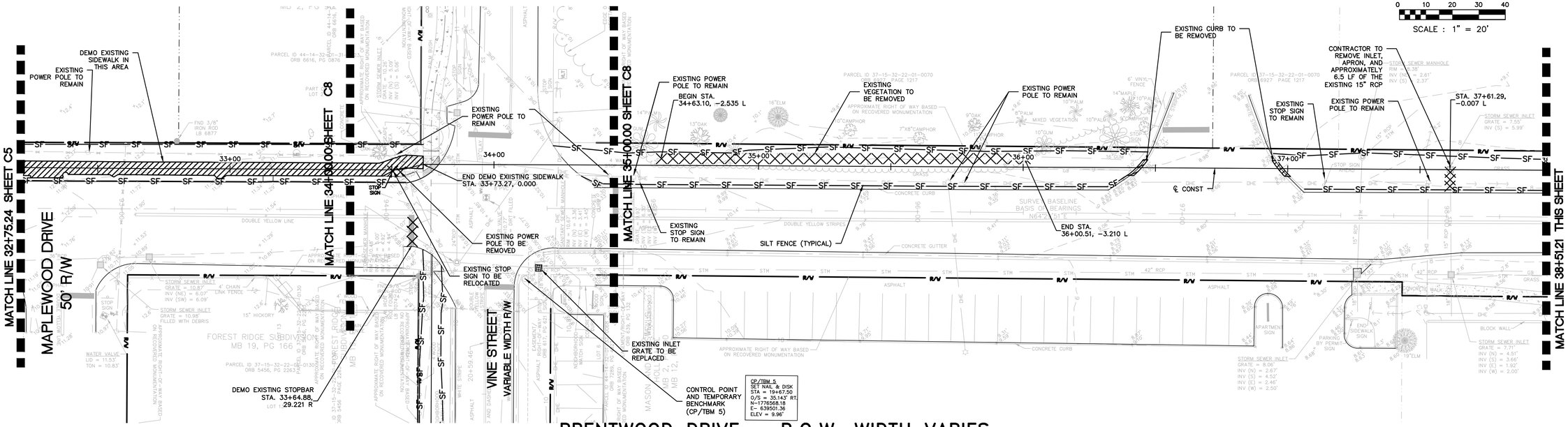
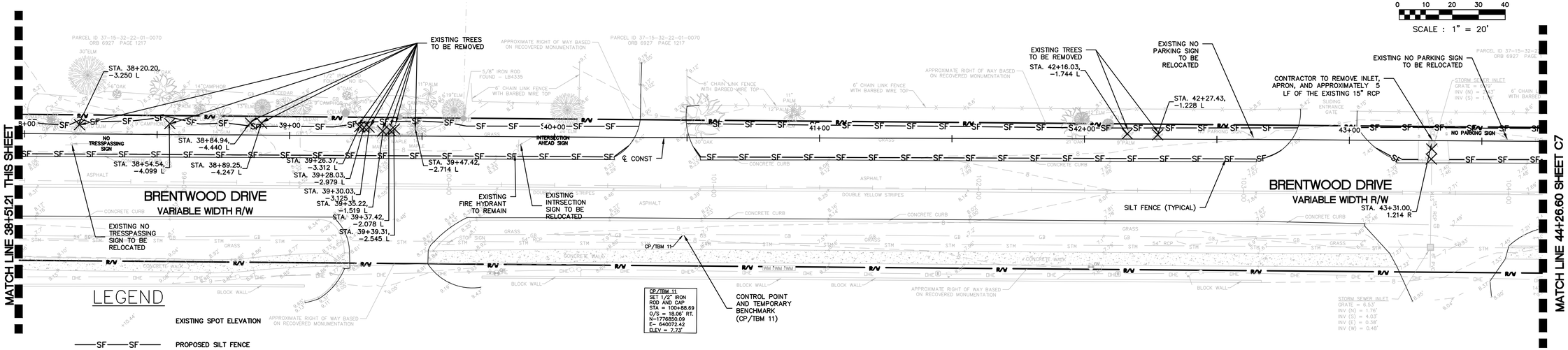


BRENTWOOD DRIVE – R.O.W. WIDTH VARIES



BRENTWOOD DRIVE – R.O.W. WIDTH VARIES

LEGEND

- EXISTING SPOT ELEVATION
- PROPOSED SILT FENCE
- DEMOLITION AREA
- TO BE DEMOLISHED
- RIGHT-OF-WAY
- PROJECT BASELINE
- PHASE 1 SIDEWALK

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VOLUSIA COUNTY, FL

CITY OF DAYTONA BEACH

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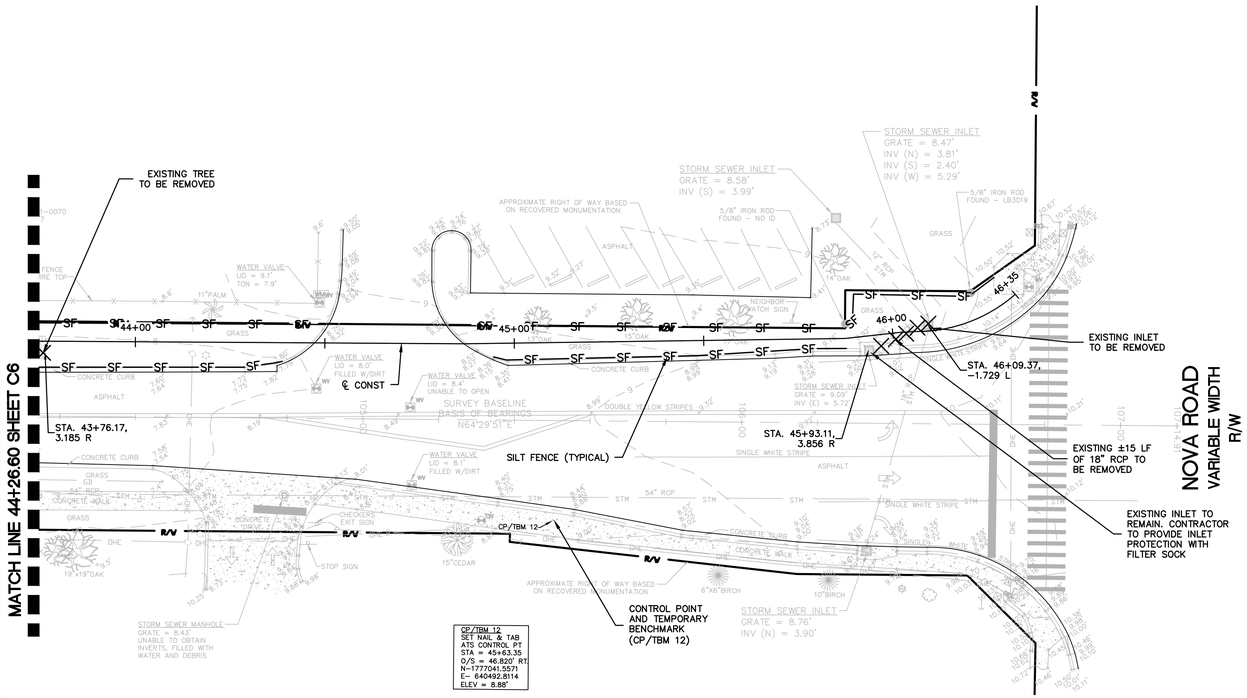

BRENTWOOD DRIVE – R.O.W. WIDTH VARIES

0 10 20 30 40

SCALE : 1" = 20'

LEGEND

- EXISTING SPOT ELEVATION
- SF — SF — PROPOSED SILT FENCE
- DEMOLITION AREA
- TO BE DEMOLISHED
- R/W — R/W — RIGHT-OF-WAY
- PROJECT BASELINE

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90% ENGINEERING PLANS

DEMOLITION AND EROSION CONTROL PLAN

CITY OF DAYTONA BEACH — VOLUSIA COUNTY, FL.

PROJECT NO: ZC17045

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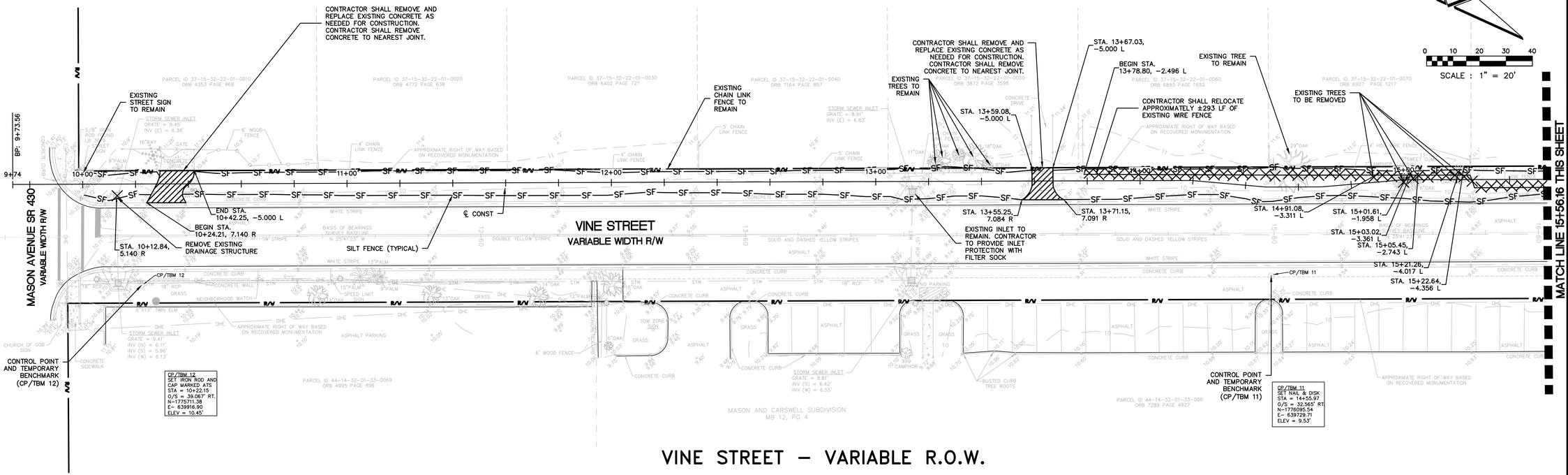
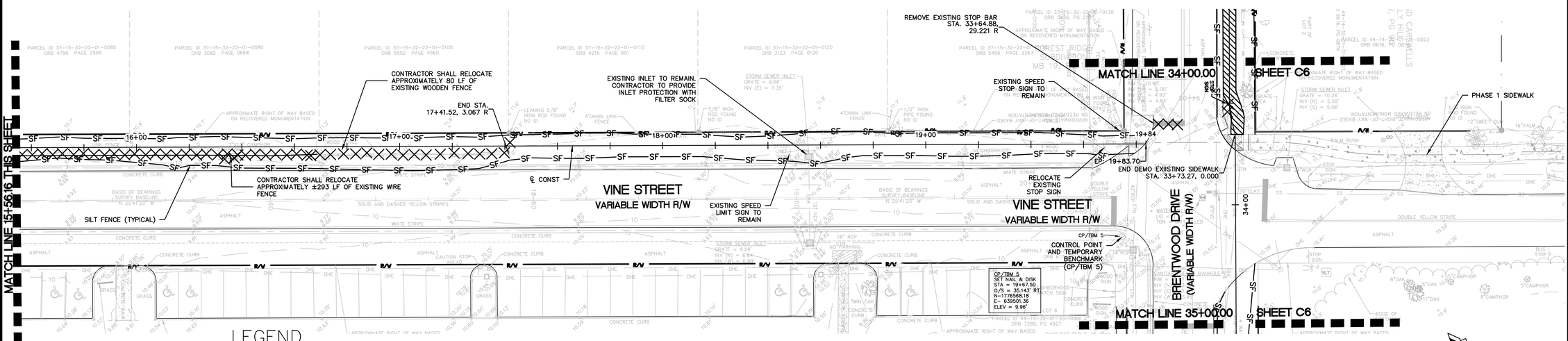


VINE STREET – VARIABLE R.O.W.



VINE STREET – VARIABLE R.O.W.

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DERBYSHIRE SIDEWALKS PHASE 2
90% ENGINEERING PLANS
DEMOLITION AND EROSION CONTROL PLAN

CITY OF DAYTONA BEACH — VOLUSIA COUNTY, FL

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SCALE: 1"=20'

SHEET: C8 OF 31

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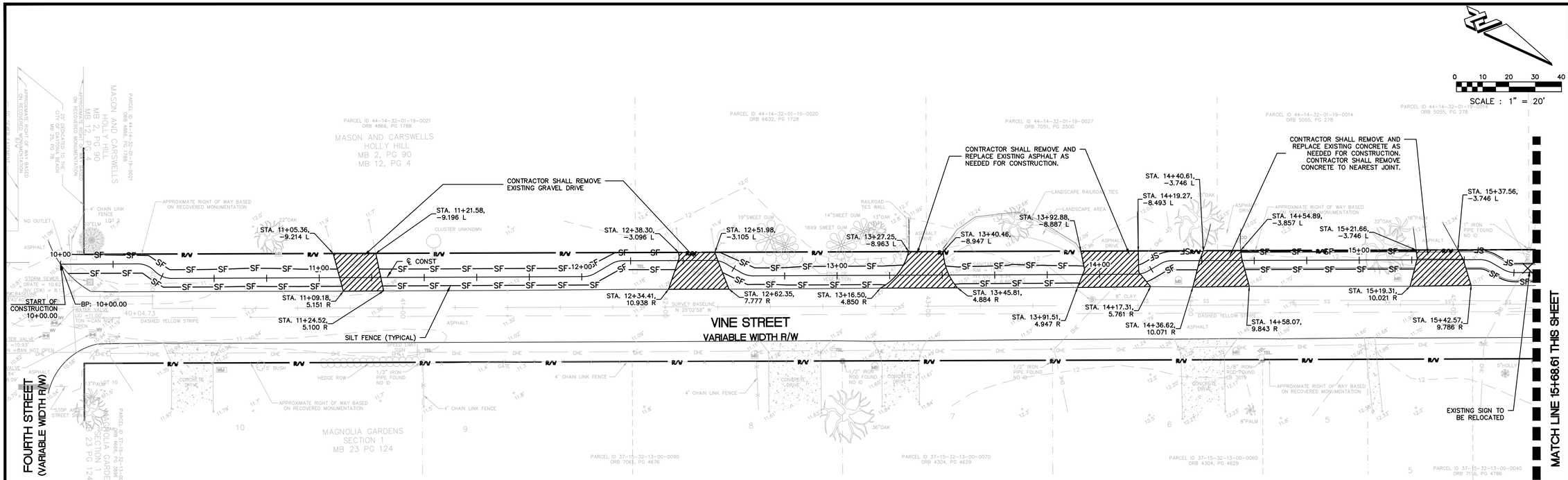
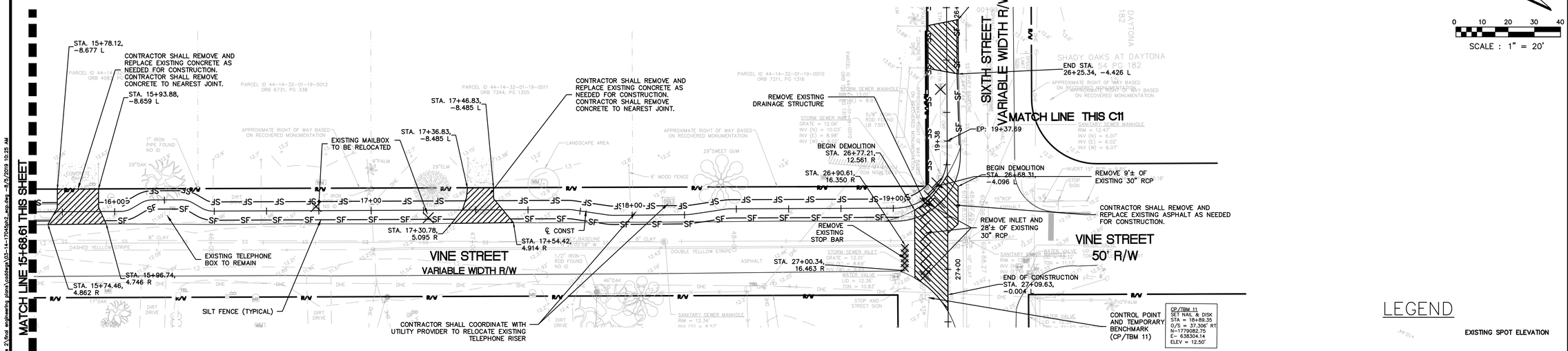


VINE STREET – VARIABLE R.O.W.



VINE STREET – VARIABLE R.O.W.

LEGEND

- EXISTING SPOT ELEVATION
- SF—SF PROPOSED SILT FENCE
- DEMOLITION AREA
- TO BE DEMOLISHED
- R/W—R/W RIGHT-OF-WAY
- PROJECT BASELINE

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PLANNING
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NO	DATE	REVISIONS	BY

DERBYSHIRE SIDEWALKS PHASE 2
90% ENGINEERING PLANS
DEMOLITION AND EROSION CONTROL PLAN

VOLUSIA COUNTY, FL.
CITY OF DAYTONA BEACH

PROJECT NO:	ZC17045
ISSUE DATE:	03-26-2018
DESIGNED BY:	KR
DRAFTED BY:	TL
CHECKED BY:	BWS

DRAWING FILE: 03-14-17045PH2_ECP
XREFS: 17045PH2_BAS.dwg
XREFS: 17045PH2-TIB.dwg

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

SCALE: 1"=20'

SHEET: C9 OF 31

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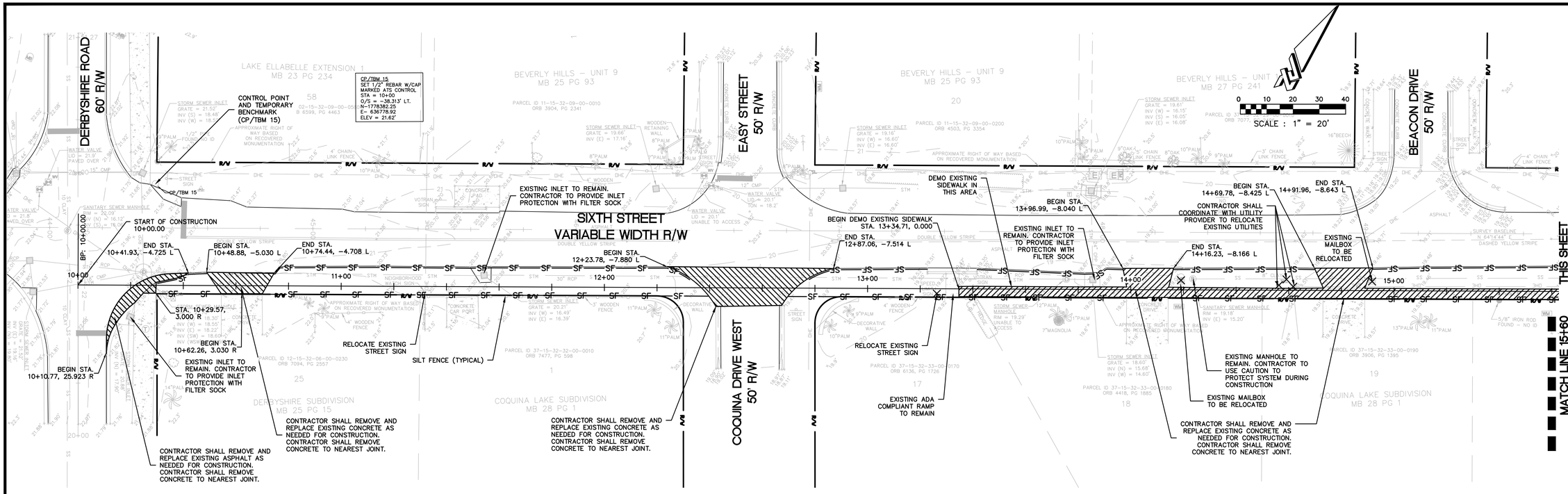
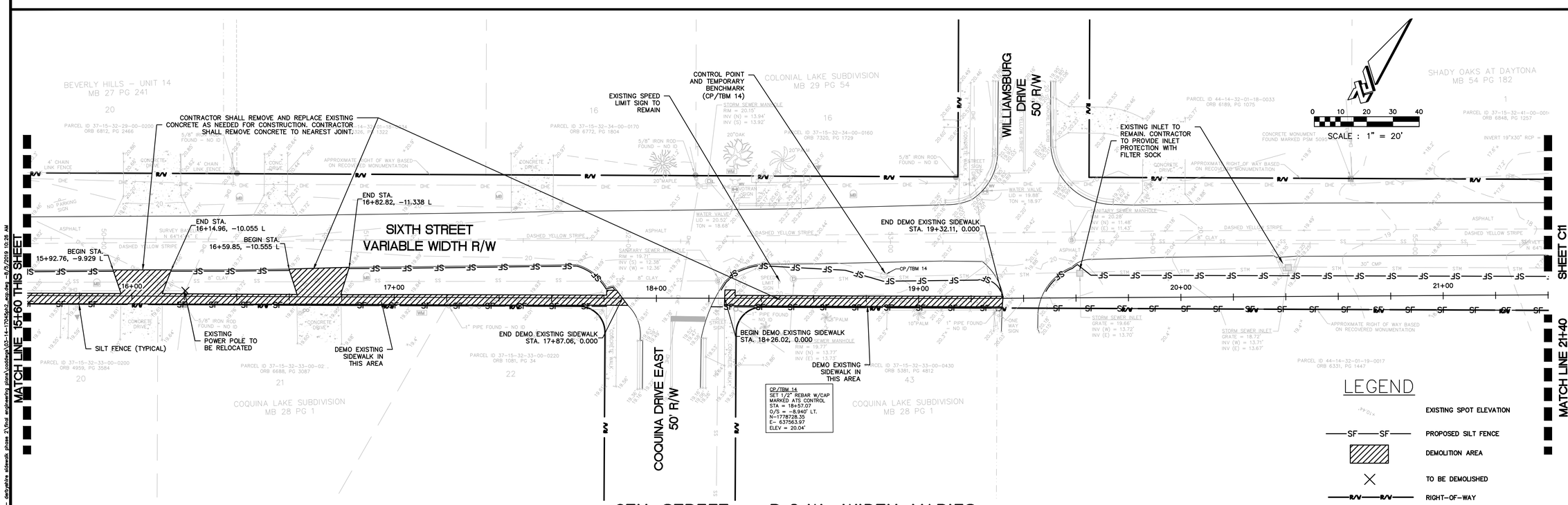


6TH STREET – R.O.W. WIDTH VARIES



6TH STREET – R.O.W. WIDTH VARIES

LEGEND

- EXISTING SPOT ELEVATION
- PROPOSED SILT FENCE
- DEMOLITION AREA
- TO BE DEMOLISHED
- RIGHT-OF-WAY
- PROJECT BASELINE

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ENVIRONMENTAL
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(LC 682)
(EB 4516)

NO	DATE	REVISIONS	BY

DERBYSHIRE SIDEWALKS PHASE 2
90% ENGINEERING PLANS
DEMOLITION AND EROSION CONTROL PLAN

VOLUSIA COUNTY, FL.
CITY OF DAYTONA BEACH

PROJECT NO:	ZC17045
ISSUE DATE:	03-26-2018
DESIGNED BY:	KR
DRAFTED BY:	TL
CHECKED BY:	BWS
DRAWING FILE:	03-14-17045PH2_ECP
XREFS:	17045PH2_BAS.dwg
XREFS:	17045PH2-TIB.dwg

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

SCALE: 1"=20'

SHEET: C10 OF 31

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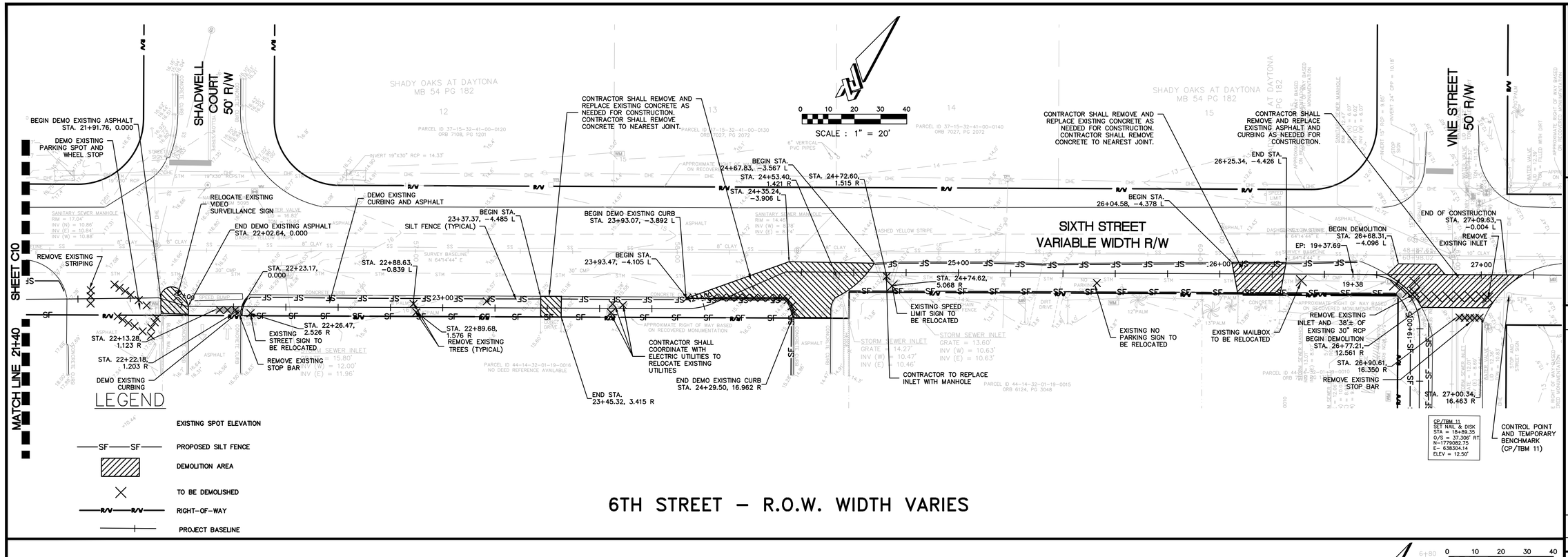
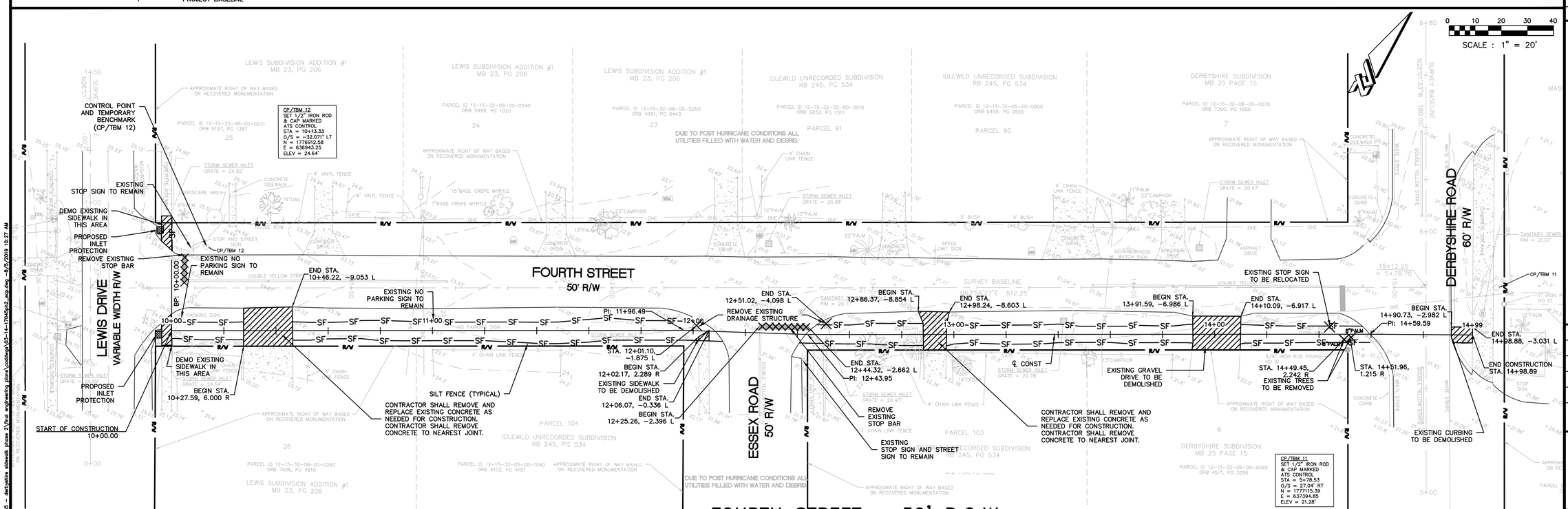


6TH STREET – R.O.W. WIDTH VARIES



FOURTH STREET – 50' R.O.W.

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TRANSPORTATION

(LC 682) (EB 4516)

NO	DATE	REVISIONS	BY

DERBYSHIRE SIDEWALKS PHASE 2
90% ENGINEERING PLANS
DEMOLITION AND EROSION CONTROL PLAN

VOLUSIA COUNTY, FL
CITY OF DAYTONA BEACH

PROJECT NO: ZC17045
ISSUE DATE: 03-26-2018
DESIGNED BY: KR
DRAFTED BY: TL
CHECKED BY: BWS

DRAWING FILE: 03-14-17045PH2_ECP
XREFS: 17045PH2_BAS.dwg
XREFS: 17045PH2-TIB.dwg

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

SCALE: 1"=20'

SHEET: C11 OF 31

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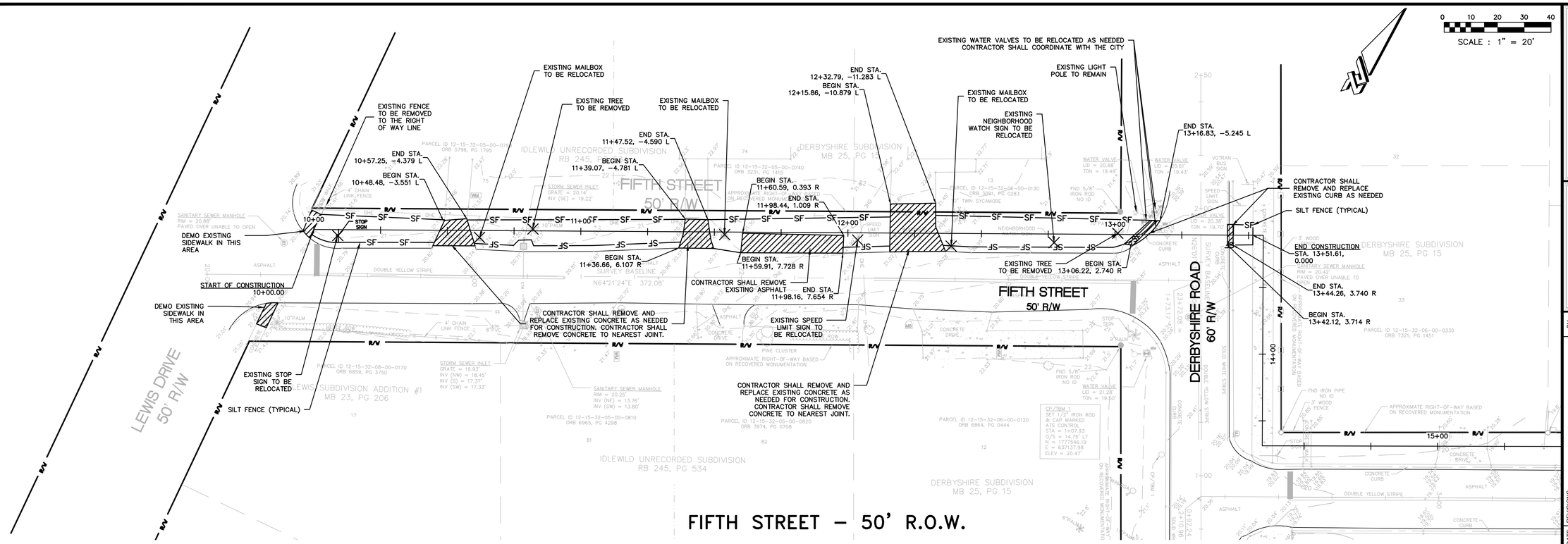

LEGEND

- EXISTING SPOT ELEVATION
- SF—SF PROPOSED SILT FENCE
- DEMOLITION AREA
- TO BE DEMOLISHED
- R/W—R/W RIGHT-OF-WAY
- PROJECT BASELINE

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ENVIRONMENTAL
PLANNING
TRANSPORTATION
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(EB 4516)

NO	DATE	REVISIONS	BY

DERBYSHIRE SIDEWALKS PHASE 2
90% ENGINEERING PLANS
DEMOLITION AND EROSION CONTROL PLAN

CITY OF DAYTONA BEACH — VOLUSIA COUNTY, FL.

PROJECT NO: ZC17045
ISSUE DATE: 03-26-2018
DESIGNED BY: KR
DRAFTED BY: TL
CHECKED BY: BWS
DRAWING FILE: 03-14-17045PH2_ECP
XREFS: 17045PH2_BAS.dwg
XREFS: 17045PH2-TIB.dwg

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

SCALE: 1"=20'

SHEET: C12 OF 31

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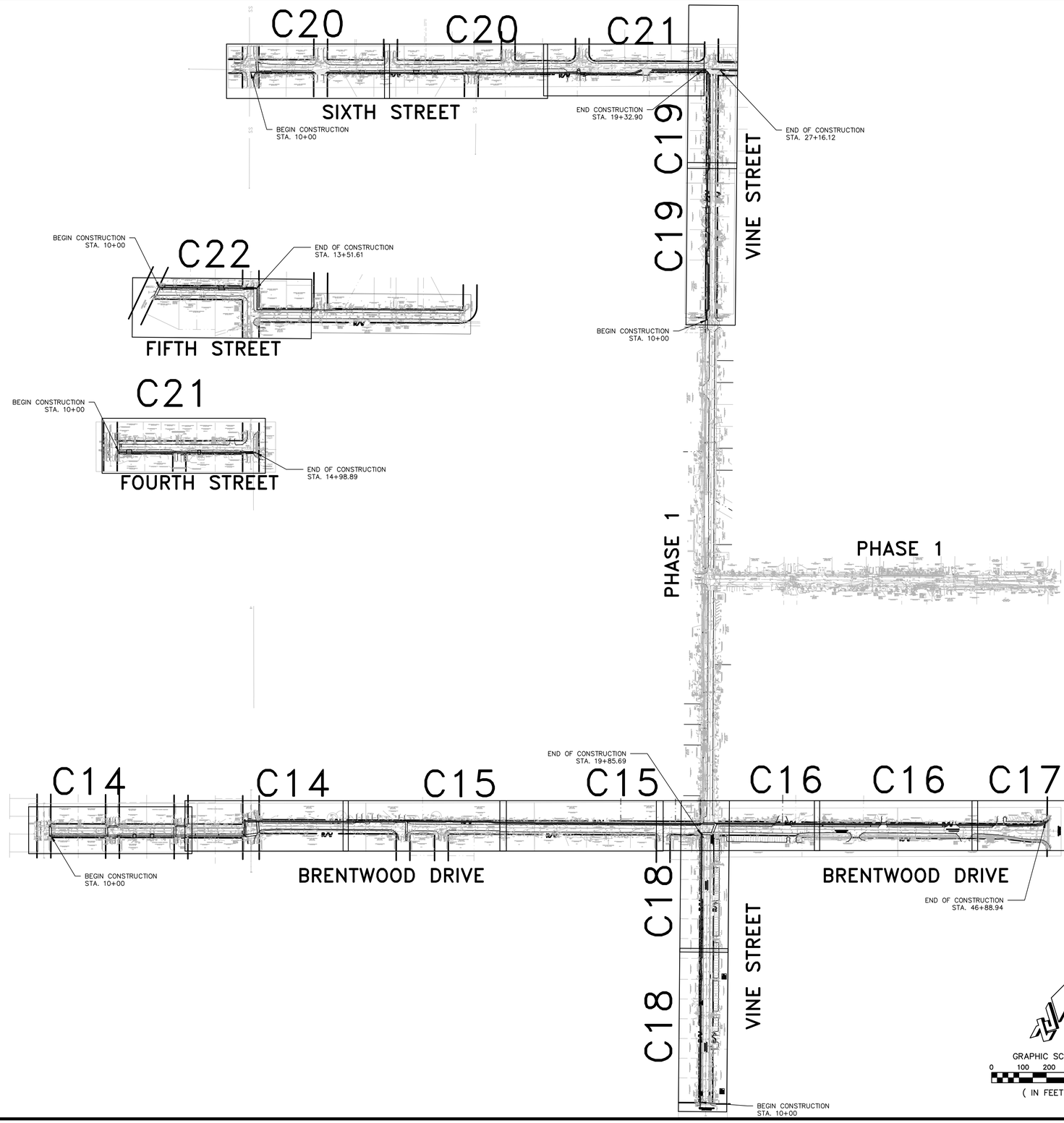

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(EB 4516)

NO	DATE	REVISIONS	BY

DERBYSHIRE SIDEWALKS
PHASE 2
90% ENGINEERING PLANS
OVERALL SIDEWALK LOCATION PLAN

CITY OF DAYTONA BEACH
VOLUSIA COUNTY, FL

PROJECT NO:	ZC17045
ISSUE DATE:	03-26-2018
DESIGNED BY:	KR
DRAFTED BY:	TL
CHECKED BY:	BWS
DRAWING FILE:	15-26-17045PH2_PGD
XREFS:	17045PH2_BAS.dwg
XREF'S:	17045PH2-TIB.dwg

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

SCALE: AS NOTED

SHEET: C13 OF 31

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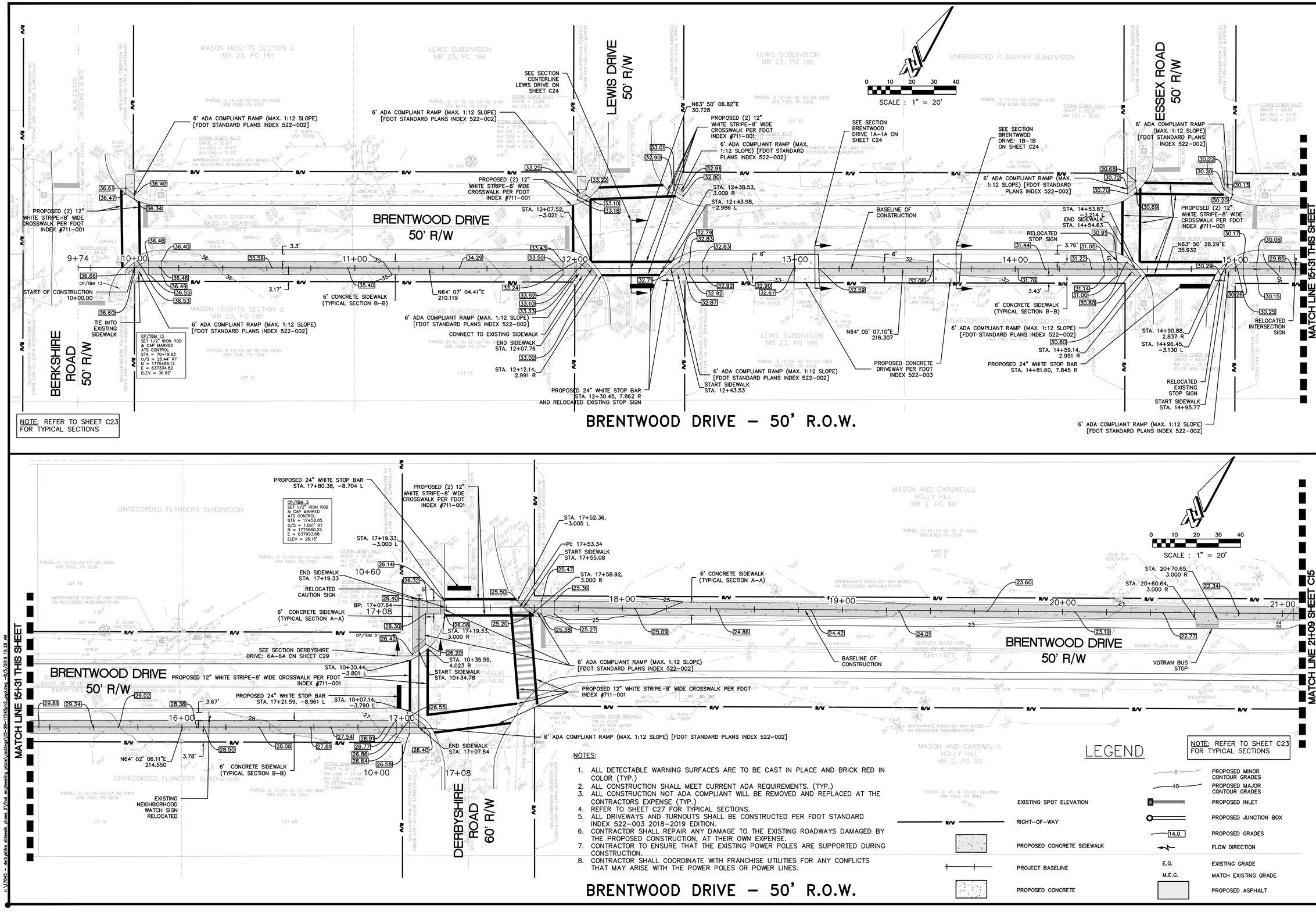

NOTES:

1. ALL DETECTABLE WARNING SURFACES ARE TO BE CAST IN PLACE AND BRICK RED IN COLOR (TYP.)
2. ALL CONSTRUCTION SHALL MEET CURRENT ADA REQUIREMENTS. (TYP.)
3. ALL CONSTRUCTION NOT ADA COMPLIANT WILL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE (TYP.)
4. REFER TO SHEET C27 FOR TYPICAL SECTIONS.
5. ALL DRIVEWAYS AND TURNOUTS SHALL BE CONSTRUCTED PER FDOT STANDARD INDEX 522–003 2018–2019 EDITION.
6. CONTRACTOR SHALL REPAIR ANY DAMAGE TO THE EXISTING ROADWAYS DAMAGED BY THE PROPOSED CONSTRUCTION, AT THEIR OWN EXPENSE.
7. CONTRACTOR TO ENSURE THAT THE EXISTING POWER POLES ARE SUPPORTED DURING CONSTRUCTION.
8. CONTRACTOR SHALL COORDINATE WITH FRANCHISE UTILITIES FOR ANY CONFLICTS THAT MAY ARISE WITH THE POWER POLES OR POWER LINES.

LEGEND

- EXISTING SPOT ELEVATION
- RIGHT–OF–WAY
- PROPOSED CONCRETE SIDEWALK
- PROJECT BASELINE
- PROPOSED CONCRETE
- PROPOSED MINOR CONTOUR GRADES
- PROPOSED MAJOR CONTOUR GRADES
- PROPOSED INLET
- PROPOSED JUNCTION BOX
- PROPOSED GRADES
- FLOW DIRECTION
- E.G. EXISTING GRADE
- M.E.G. MATCH EXISTING GRADE
- PROPOSED ASPHALT

NOTE; REFER TO SHEET C23 FOR TYPICAL SECTIONS

BRENTWOOD DRIVE – 50' R.O.W.

ZEV COHEN & ASSOCIATES, INC.
1000 BEVILLE ROAD, SUITE C
DAYTONA BEACH, FL 32114
WWW.ZEVCOHEN.COM

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(LC 682)
(EB 4516)

NO	DATE	REVISIONS	BY

DERBYSHIRE SIDEWALKS PHASE 2

90% ENGINEERING PLANS

SIDEWALK GRADING & DRAINAGE PLAN BRENTWOOD DRIVE-50' R.O.W.

CITY OF DAYTONA BEACH — VOLUSIA COUNTY, FL

PROJECT NO: ZC17045
ISSUE DATE: 03-26-2018
DESIGNED BY: KR
DRAFTED BY: TL
CHECKED BY: BWS
DRAWING FILE: 15-26-17045PH2_PGD
XREFS: 17045PH2_BAS.dwg
XREFS: 17045PH2-TIB.dwg

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

SCALE: 1"=20'

SHEET: C14 OF 31

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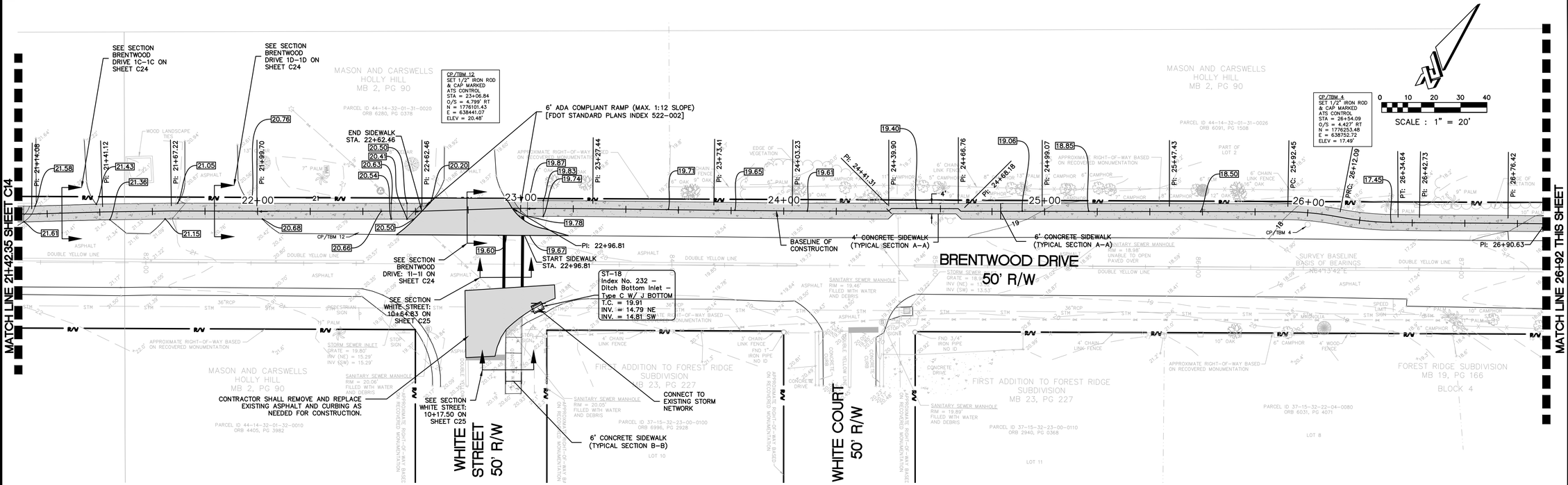
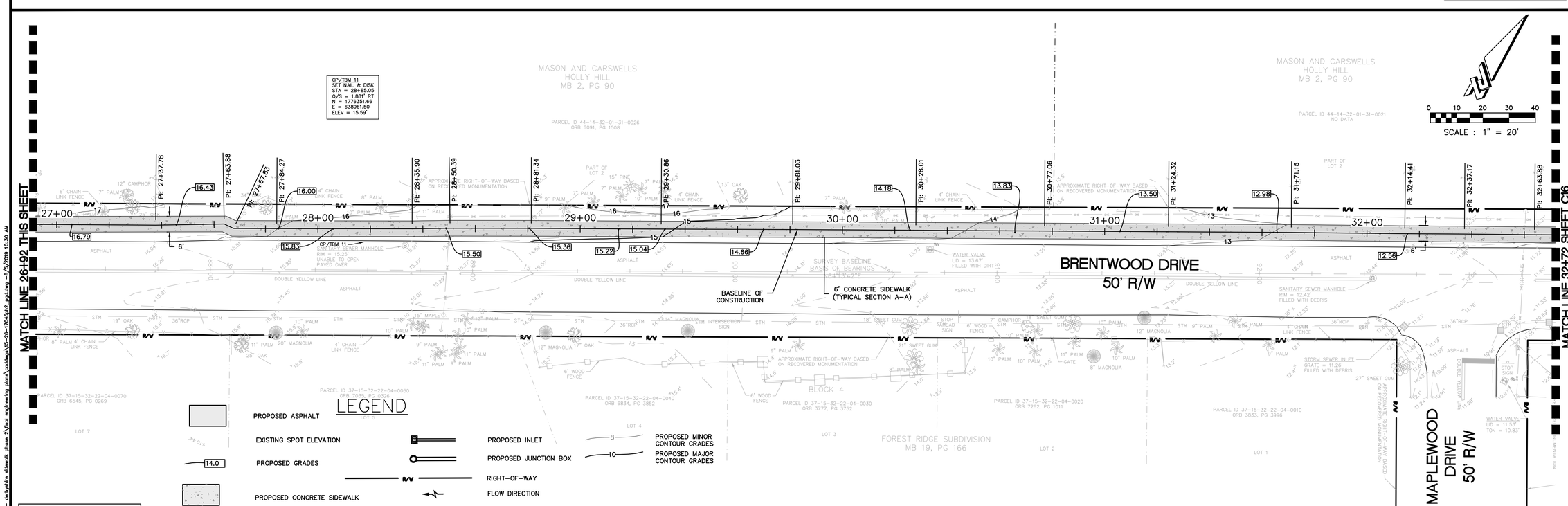


NOTE: REFER TO SHEET C23 FOR TYPICAL SECTIONS

BRENTWOOD DRIVE – 50' R.O.W.



LEGEND

- PROPOSED ASPHALT
- EXISTING SPOT ELEVATION
- PROPOSED GRADES (14.0)
- PROPOSED CONCRETE SIDEWALK
- PROJECT BASELINE
- PROPOSED INLET
- PROPOSED JUNCTION BOX
- RIGHT–OF–WAY
- FLOW DIRECTION
- E.G. EXISTING GRADE
- M.E.G. MATCH EXISTING GRADE
- PROPOSED MINOR CONTOUR GRADES
- PROPOSED MAJOR CONTOUR GRADES

NOTE: REFER TO SHEET C23 FOR TYPICAL SECTIONS

BRENTWOOD DRIVE – 50' R.O.W.

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NO	DATE	REVISIONS	BY

DERBYSHIRE SIDEWALKS PHASE 2

90% ENGINEERING PLANS

SIDEWALK GRADING & DRAINAGE PLAN BRENTWOOD DRIVE-50' R.O.W.

CITY OF DAYTONA BEACH — VOLUSIA COUNTY, FL

PROJECT NO: ZC17045

ISSUE DATE: 03-26-2018

DESIGNED BY: KR

DRAFTED BY: TL

CHECKED BY: BWS

DRAWING FILE: 15-26-17045PH2_PGD
XREFS: 17045PH2_BAS.dwg
XREFS: 17045PH2-TIB.dwg

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

SCALE: 1"=20'

SHEET: C15 OF 31

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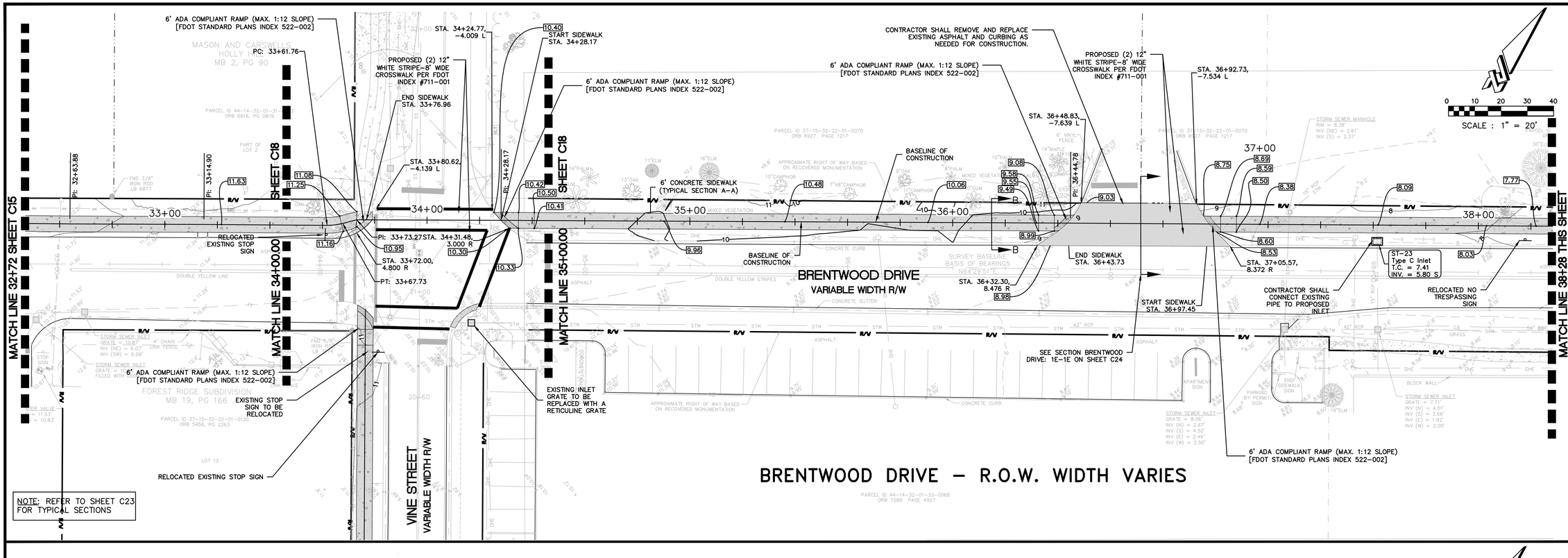

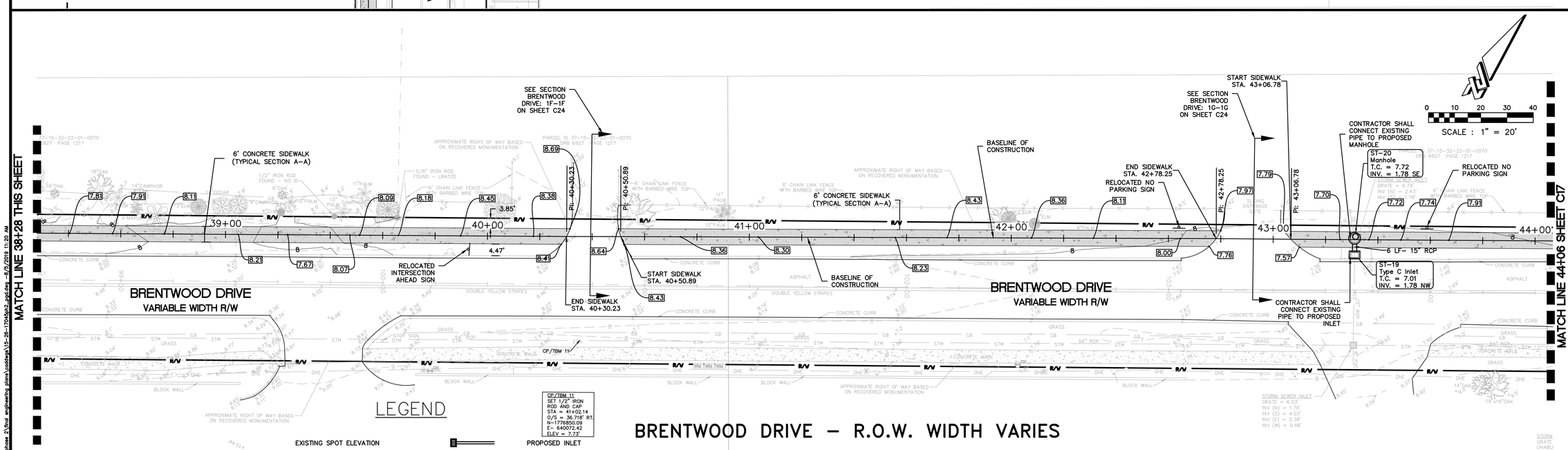

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NO	DATE	REVISIONS	BY

DERBYSHIRE SIDEWALKS PHASE 2
90% ENGINEERING PLANS
SIDEWALK GRADING & DRAINAGE PLAN BRENTWOOD DRIVE-R.O.W. WIDTH VARIES

CITY OF DAYTONA BEACH — VOLUSIA COUNTY, FL

PROJECT NO: ZC17045
ISSUE DATE: 03-26-2018
DESIGNED BY: KR
DRAFTED BY: TL
CHECKED BY: BWS
DRAWING FILE: 15-26-17045PH2_PGD
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XREFS: 17045PH2-TIB.dwg

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

SCALE: 1"=20'

SHEET: C16 OF 31

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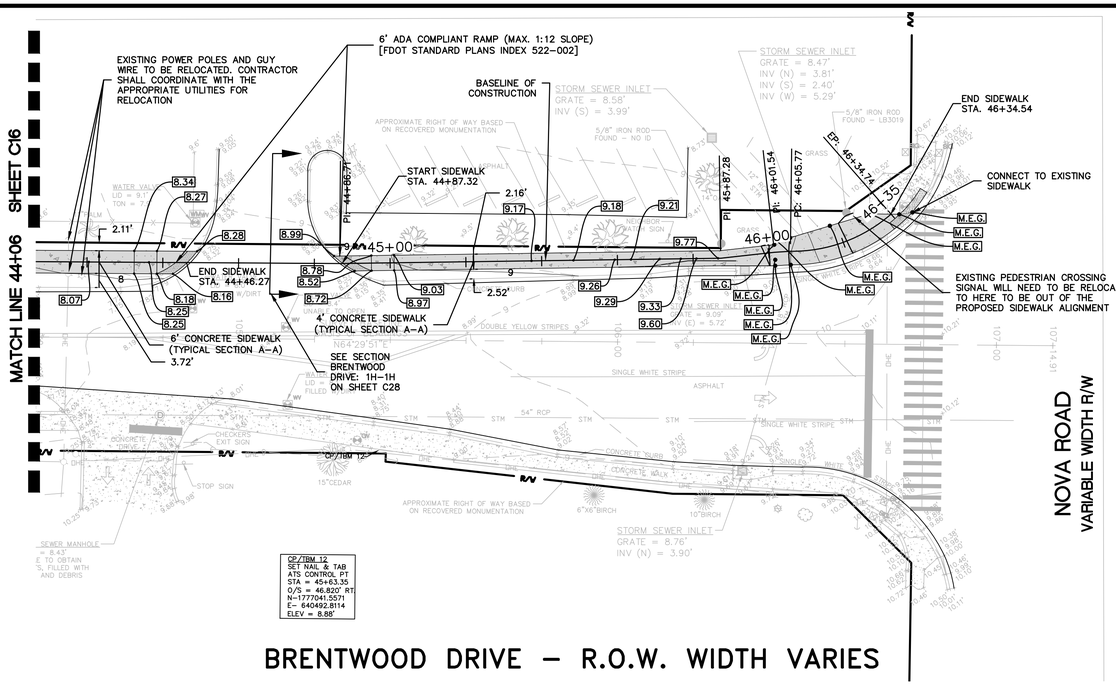
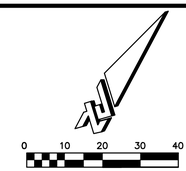


BRENTWOOD DRIVE – R.O.W. WIDTH VARIES

NOTE: REFER TO SHEET C23 FOR TYPICAL SECTIONS



LEGEND

- EXISTING SPOT ELEVATION
- PROPOSED GRADES (14.0)
- PROPOSED CONCRETE SIDEWALK
- PROJECT BASELINE
- PROPOSED INLET
- PROPOSED JUNCTION BOX
- RIGHT-OF-WAY
- FLOW DIRECTION
- E.G. EXISTING GRADE
- M.E.G. MATCH EXISTING GRADE
- PROPOSED MINOR CONTOUR GRADES (8)
- PROPOSED MAJOR CONTOUR GRADES (10)
- PROPOSED ASPHALT

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1800 WEST HILLCREST STREET, SUITE C
ORMOND BEACH, FL 32174
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TRANSPORTATION
(LC 682)
(EB 4516)

NO	DATE	REVISIONS	BY

DERBYSHIRE SIDEWALKS PHASE 2
90% ENGINEERING PLANS
SIDEWALK GRADING & DRAINAGE PLAN BRENTWOOD DRIVE-R.O.W. WIDTH VARIES

CITY OF DAYTONA BEACH — VOLUSIA COUNTY, FL

PROJECT NO: ZC17045
ISSUE DATE: 03-26-2018
DESIGNED BY: KR
DRAFTED BY: TL
CHECKED BY: BWS
DRAWING FILE: 15-26-17045PH2_PGD
XREFS: 17045PH2_BAS.dwg
XREFS: 17045PH2-TIB.dwg

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

SCALE: 1"=20'

SHEET: C17 OF 31

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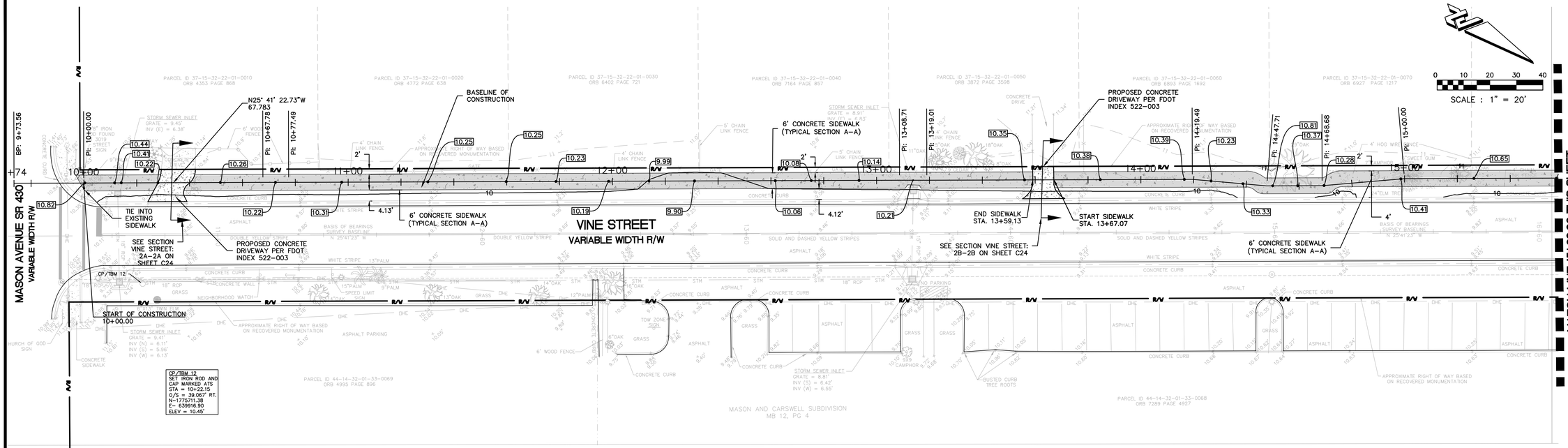
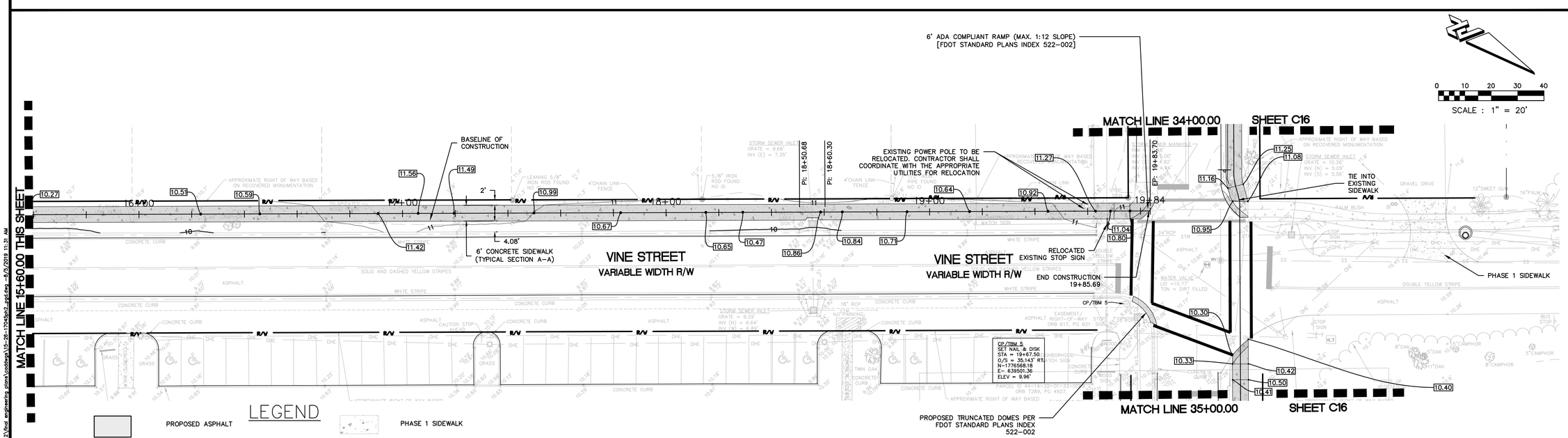


NOTE: REFER TO SHEET C23 FOR TYPICAL SECTIONS

VINE STREET (MASON AVE. TO BRENTWOOD DRIVE)– R.O.W. WIDTH VARIES



LEGEND

- PROPOSED ASPHALT
- EXISTING SPOT ELEVATION
- RIGHT-OF-WAY
- PROPOSED CONCRETE SIDEWALK
- PROJECT BASELINE
- PROPOSED CONCRETE
- PHASE 1 SIDEWALK
- PROPOSED INLET
- PROPOSED JUNCTION BOX
- PROPOSED GRADES
- FLOW DIRECTION
- E.G. EXISTING GRADE
- M.E.G. MATCH EXISTING GRADE
- PROPOSED MINOR CONTOUR GRADES
- PROPOSED MAJOR CONTOUR GRADES

VINE STREET (MASON AVE. TO BRENTWOOD DRIVE) – R.O.W. WIDTH VARIES

NOTE: REFER TO SHEET C23 FOR TYPICAL SECTIONS

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ORMOND BEACH, FL 32174
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(EB 4516)

NO	DATE	REVISIONS	BY

DERBYSHIRE SIDEWALKS PHASE 2

90% ENGINEERING PLANS

SIDEWALK GRADING & DRAINAGE PLAN VINE STREET-R.O.W. WIDTH VARIES

CITY OF DAYTONA BEACH — VOLUSIA COUNTY, FL

PROJECT NO: ZC17045
ISSUE DATE: 03-26-2018
DESIGNED BY: KR
DRAFTED BY: TL
CHECKED BY: BWS
DRAWING FILE: 15-26-17045PH2_PGD
XREFS: 17045PH2_BAS.dwg
XREFS: 17045PH2-TIB.dwg

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

SCALE: 1"=20'

SHEET: C18 OF 31

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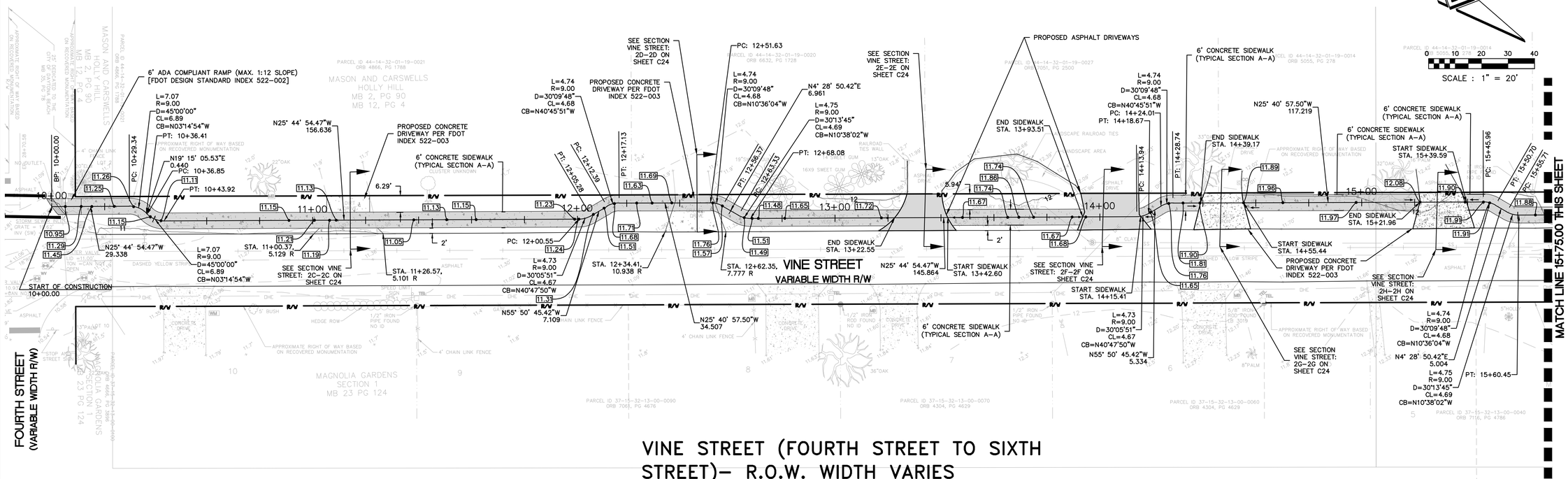
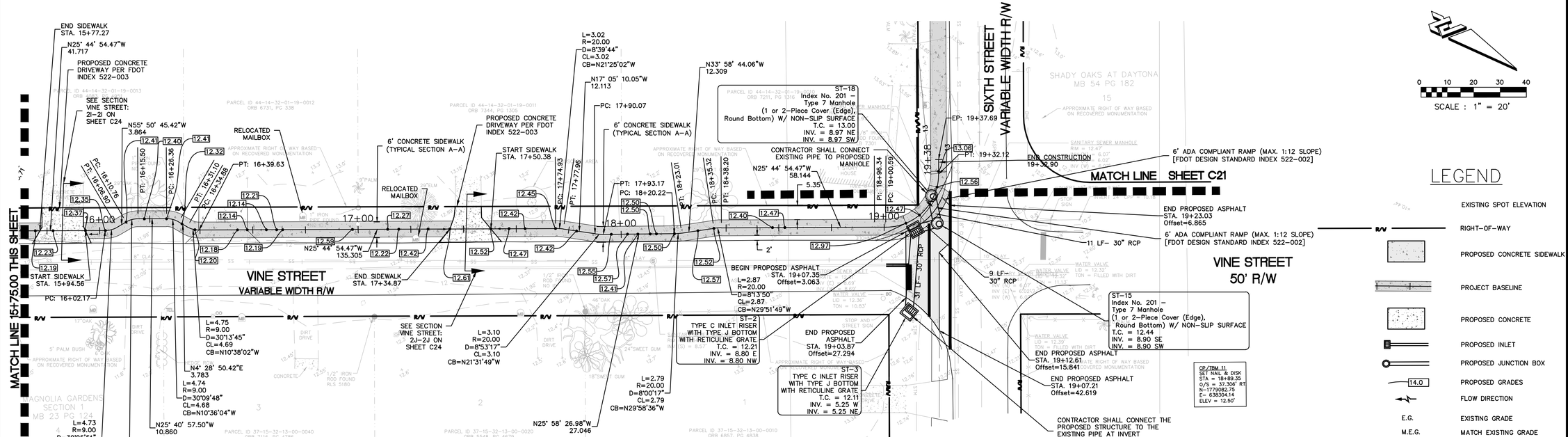


VINE STREET (FOURTH STREET TO SIXTH STREET)– R.O.W. WIDTH VARIES



VINE STREET (FOURTH STREET TO SIXTH STREET) – R.O.W. WIDTH VARIES

LEGEND

- EXISTING SPOT ELEVATION
- RIGHT–OF–WAY
- PROPOSED CONCRETE SIDEWALK
- PROJECT BASELINE
- PROPOSED CONCRETE
- PROPOSED INLET
- PROPOSED JUNCTION BOX
- PROPOSED GRADES (14.0)
- FLOW DIRECTION
- E.G. EXISTING GRADE
- M.E.G. MATCH EXISTING GRADE
- PROPOSED ASPHALT
- PROPOSED MINOR CONTOUR GRADES (8)
- PROPOSED MAJOR CONTOUR GRADES (10)

ZEV COHEN & ASSOCIATES, INC.
1768 CLYDE MORRIS BLVD., SUITE C
ORMOND BEACH, FL 32174
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ENVIRONMENTAL
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(EB 4516)

NO	DATE	REVISIONS	BY

DERBYSHIRE SIDEWALKS PHASE 2
90% ENGINEERING PLANS
SIDEWALK GRADING & DRAINAGE PLAN
VINE STREET-R.O.W. WIDTH VARIES

VOLUSIA COUNTY, FL
CITY OF DAYTONA BEACH

PROJECT NO: ZC17045
ISSUE DATE: 03-26-2018
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CHECKED BY: BWS

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XREFS: 17045PH2_BAS.dwg
XREFS: 17045PH2-TIB.dwg

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

SCALE: 1"=20'

SHEET: C19 OF 31

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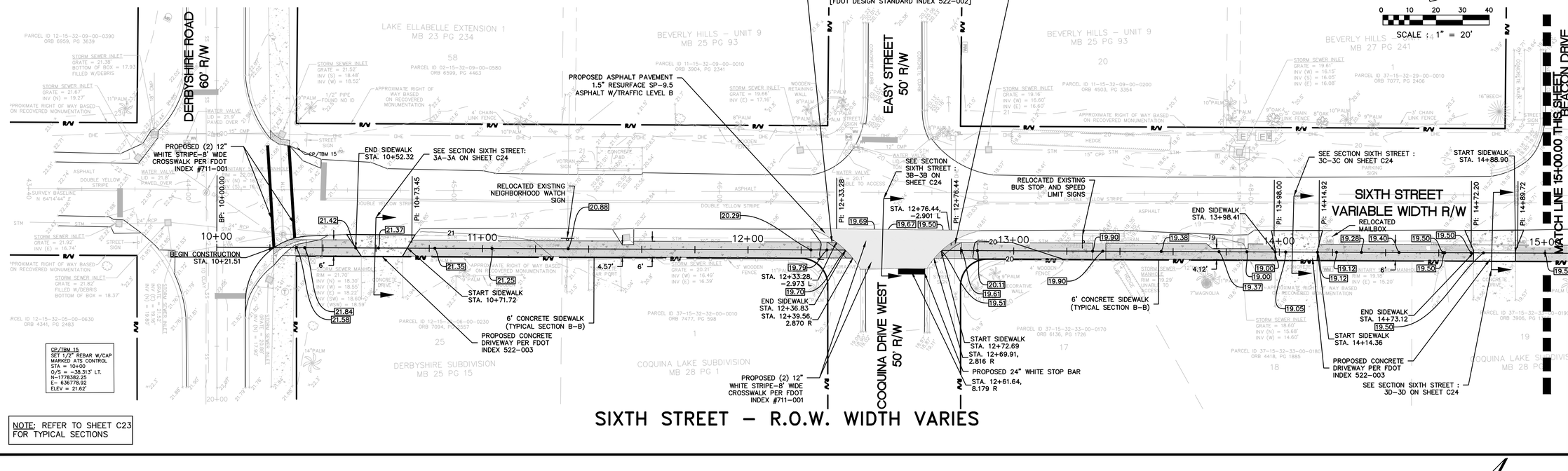

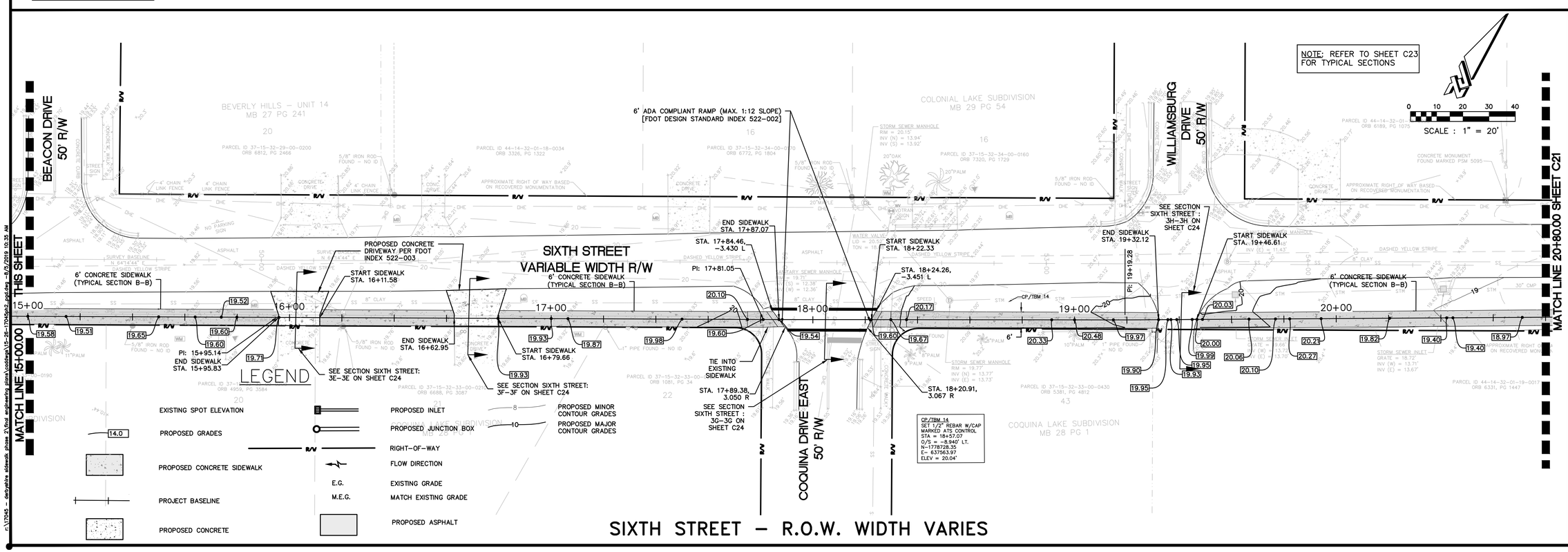

ZEV COHEN & ASSOCIATES, INC.
1565 CHENNAULT DRIVE, SUITE C
OSPREY BEACH, FL 32174
WWW.ZEVCOHEN.COM

CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION
(LC 682)
(EB 4516)

NO	DATE	REVISIONS	BY

DERBYSHIRE SIDEWALKS PHASE 2
90% ENGINEERING PLANS
SIDEWALK GRADING & DRAINAGE PLAN SIXTH STREET-R.O.W. WIDTH VARIES

VOLUSIA COUNTY, FL
CITY OF DAYTONA BEACH

PROJECT NO: ZC17045
ISSUE DATE: 03-26-2018
DESIGNED BY: KR
DRAFTED BY: TL
CHECKED BY: BWS

DRAWING FILE: 15-26-17045PH2_PGD
XREFS: 17045PH2_BAS.dwg
XREFS: 17045PH2-TIB.dwg

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

SCALE: 1"=20'

SHEET: C20 OF 31

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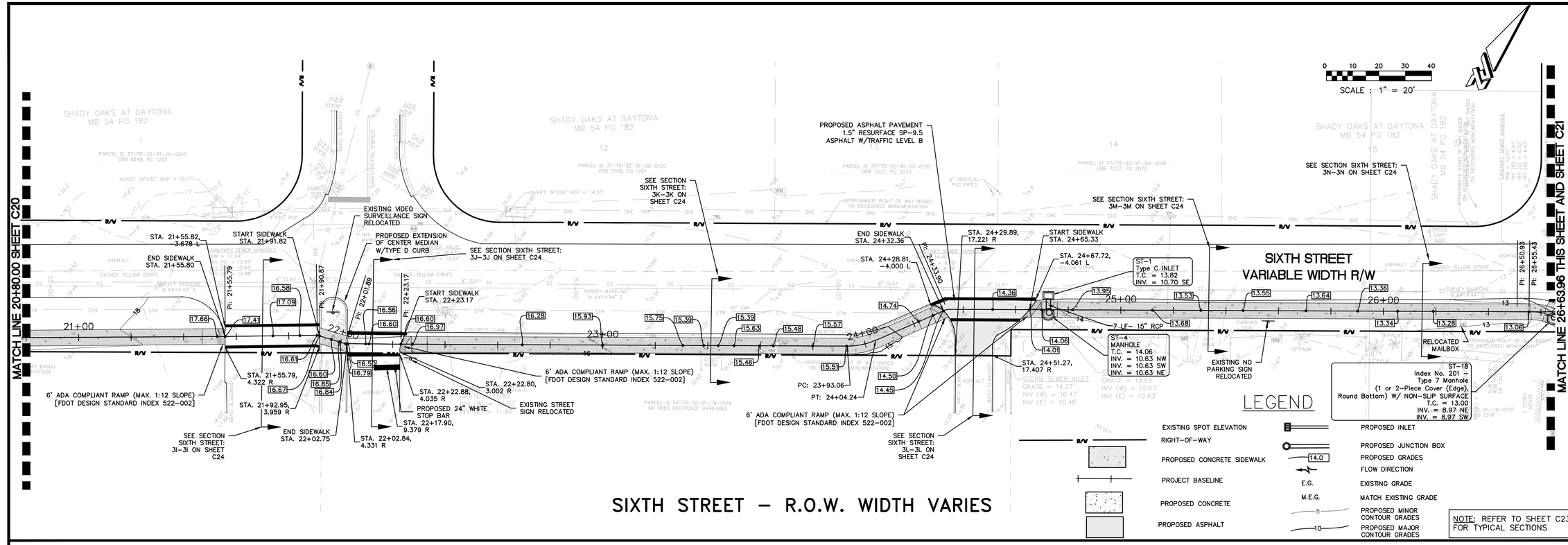
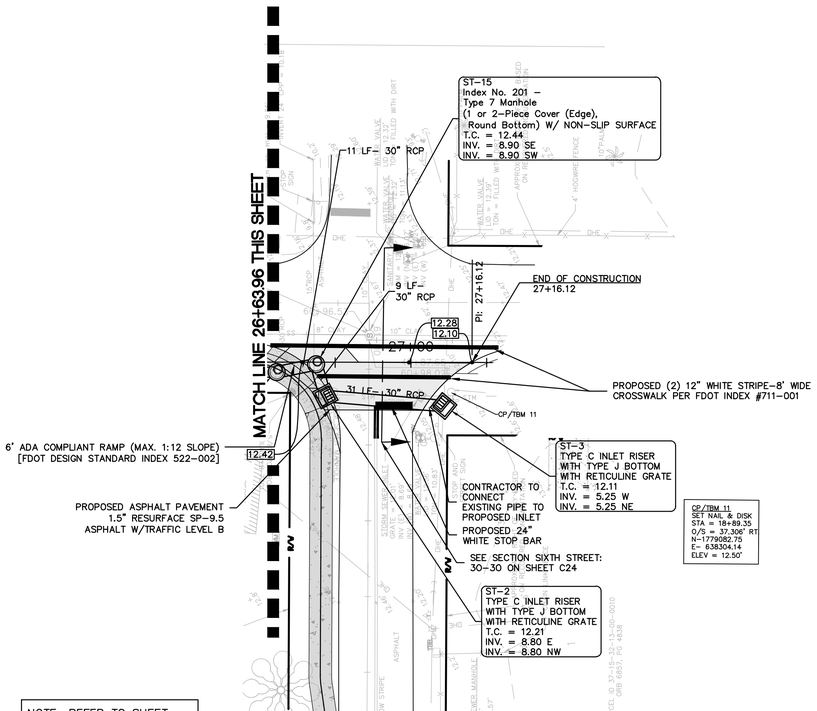
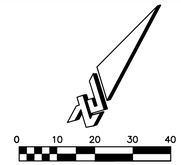


SIXTH STREET – R.O.W. WIDTH VARIES





SIXTH STREET – R.O.W. WIDTH VARIES

ZEV COHEN & ASSOCIATES, INC.
1800 PENNSYLVANIA AVE., SUITE C
ORMOND BEACH, FL 32174
WWW.ZEVCOHEN.COM

CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION
(LC-C-60)
(EB 4516)

NO	DATE	REVISIONS	BY

DERBYSHIRE SIDEWALKS PHASE 2
90% ENGINEERING PLANS
SIDEWALK GRADING & DRAINAGE PLAN SIXTH STREET-R.O.W. WIDTH VARIES
CITY OF DAYTONA BEACH — VOLUSIA COUNTY, FL

PROJECT NO: ZC17045
ISSUE DATE: 03-26-2018
DESIGNED BY: KR
DRAFTED BY: TL
CHECKED BY: BWS
DRAWING FILE: 15-26-17045PH2_PGD
XREFS: 17045PH2_BAS.dwg
XREFS: 17045PH2-TIB.dwg

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

SCALE: 1"=20'

SHEET: C21 OF 31

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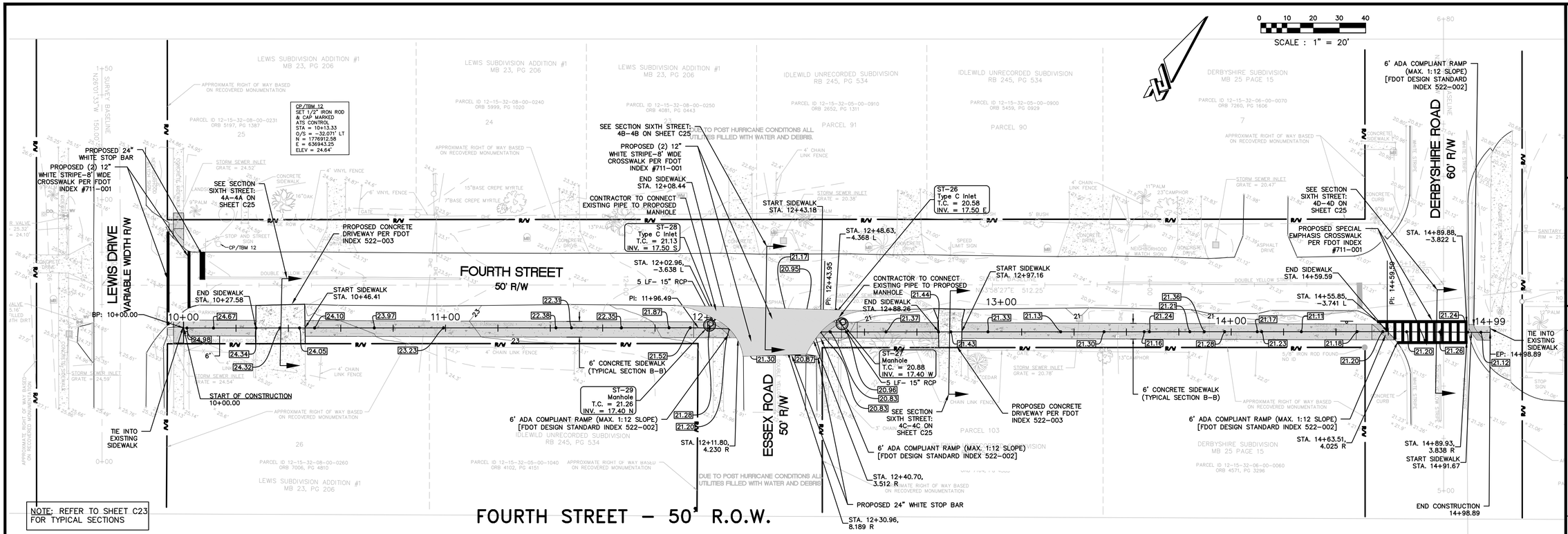

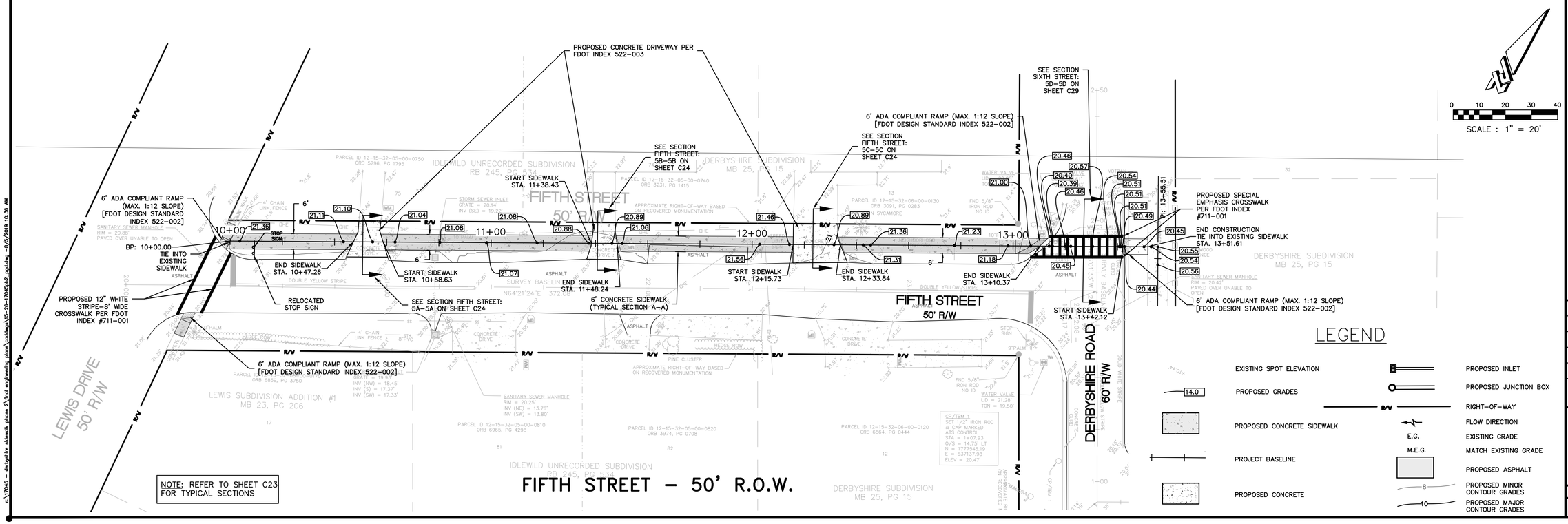

ZEV COHEN & ASSOCIATES, INC.
CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION
(LC 66)
(EB 4516)
WWW.ZEVCOHEN.COM

NO	DATE	REVISIONS	BY

DERBYSHIRE SIDEWALKS PHASE 2
90% ENGINEERING PLANS
SIDEWALK GRADING & DRAINAGE PLAN FOURTH & FIFTH STREET-50' R.O.W.
VOLUSIA COUNTY, FL
CITY OF DAYTONA BEACH

PROJECT NO:	ZC17045
ISSUE DATE:	03-26-2018
DESIGNED BY:	KR
DRAFTED BY:	TL
CHECKED BY:	BWS

DRAWING FILE: 15-26-17045PH2_PGD
XREFS: 17045PH2_BAS.dwg
XREFS: 17045PH2-TIB.dwg

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

SCALE: 1"=20'

SHEET: C22 OF 31

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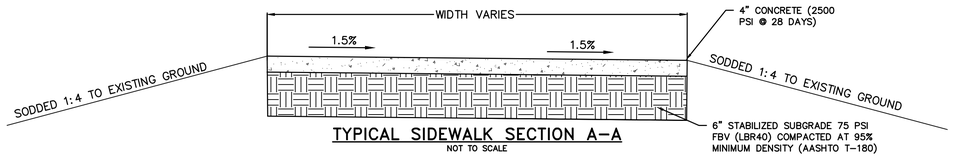


TYPICAL SIDEWALK SECTION A-A

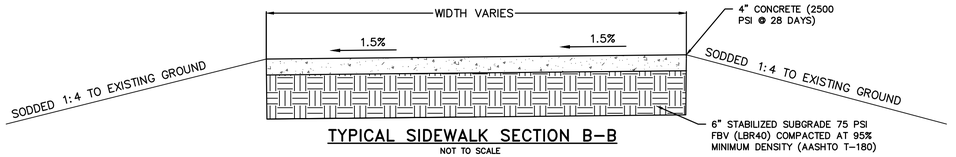
NOT TO SCALE

BRENTWOOD DRIVE
17+42.42-17+73.73, 18+09.46-46+88.74

VINE STREET - MASON AVENUE TO BRENTWOOD DRIVE
10+00-19+85.69

VINE STREET - FOURTH STREET TO SIXTH STREET
10+00-19+16.40

FIFTH STREET
10+00-13+51.61



TYPICAL SIDEWALK SECTION B-B

NOT TO SCALE

BRENTWOOD DRIVE
10+00-17+10.54

SIXTH STREET
10+29.57-39+85.26

FOURTH STREET
10+00-14+99

WHITE STREET
10+00-

NOTES:

1. ALL DETECTABLE WARNING SURFACES ARE TO BE CAST IN PLACE. (TYP.)
2. ALL CONSTRUCTION SHALL MEET CURRENT ADA REQUIREMENTS. (TYP.)
3. ALL CONSTRUCTION NOT ADA COMPLIANT WILL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE (TYP.)
4. REFER TO SHEET C27 FOR TYPICAL SECTIONS.
5. ALL DRIVEWAYS AND TURNOUTS SHALL BE CONSTRUCTED PER FDOT STANDARD INDEX 522-003 2018-2019 EDITION.
6. CONTRACTOR SHALL REPAIR ANY DAMAGE TO THE EXISTING ROADWAYS DAMAGED BY THE PROPOSED CONSTRUCTION, AT THEIR OWN EXPENSE.
7. CONTRACTOR TO ENSURE THAT THE EXISTING POWER POLES ARE SUPPORTED DURING CONSTRUCTION.
8. CONTRACTOR SHALL COORDINATE WITH FRANCHISE UTILITIES FOR ANY CONFLICTS THAT MAY ARISE WITH THE POWER POLES OR POWER LINES.

ZEV COHEN & ASSOCIATES, INC.
6500 CYPRESS ROAD, SUITE C
DUNWOODY, GA 30328
ORMOND BEACH, FL 32174
WWW.ZEVCOHEN.COM

CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION
(LC 662)
(EB 4516)

NO	DATE	REVISIONS	BY

DERBYSHIRE SIDEWALKS PHASE 2
90% ENGINEERING PLANS
TYPICAL SECTION DETAILS

CITY OF DAYTONA BEACH
VOLUSIA COUNTY, FL

PROJECT NO: ZC17045

ISSUE DATE: 03-26-2018

DESIGNED BY: KR

DRAFTED BY: TL

CHECKED BY: BWS

DRAWING FILE: 27-34-17045PH2_SECTIONS
XREFS: 17045PH2_BAS.dwg
XREFS: 17045PH2-TIB.dwg

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

SCALE: 1"=20'

SHEET: C23 OF 31

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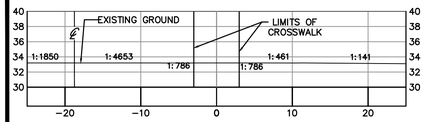
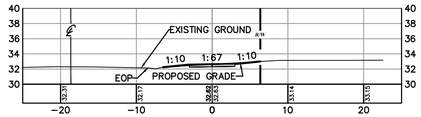
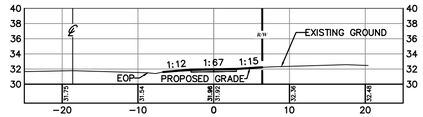


CENTER LINE LEWIS DRIVE:12+25.13



BRENTWOOD DRIVE: 1A–1A



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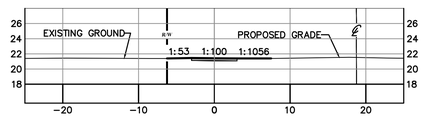
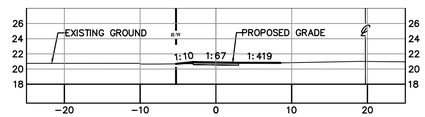
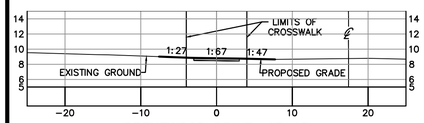


BRENTWOOD DRIVE: 1C–1C



BRENTWOOD DRIVE: 1D–1D (1)



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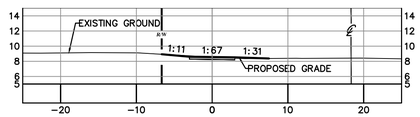

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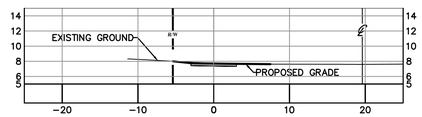

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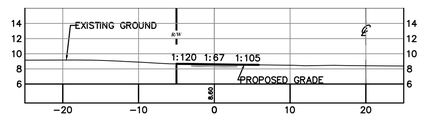

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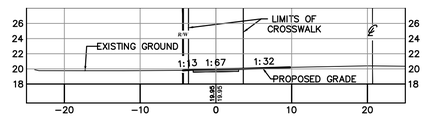

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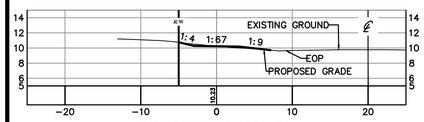
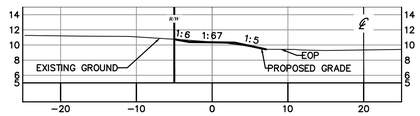


VINE STREET: 2A–2A



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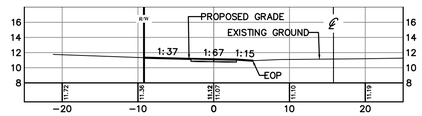

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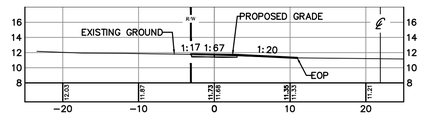

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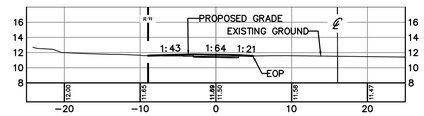

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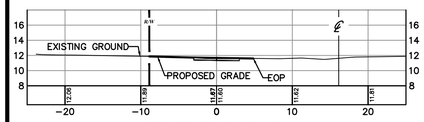

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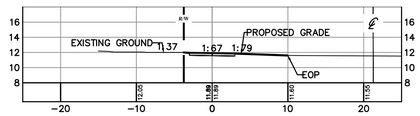

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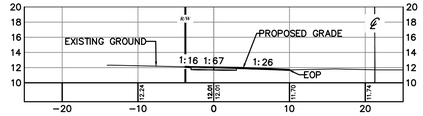

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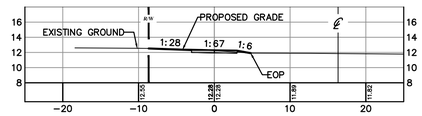

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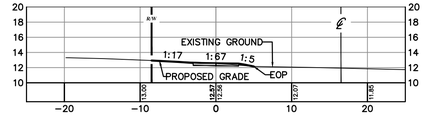

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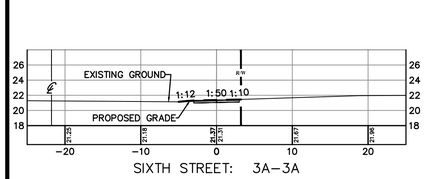

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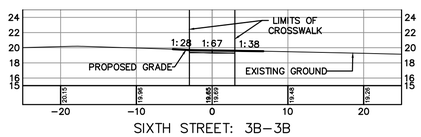

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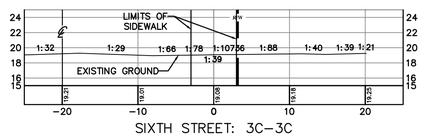

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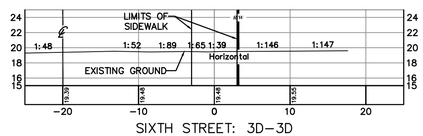

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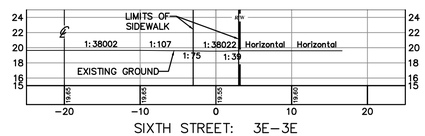

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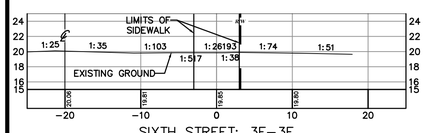

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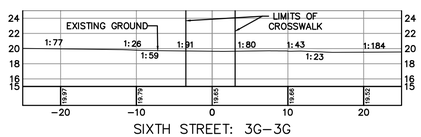

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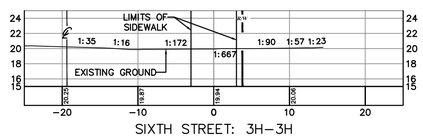

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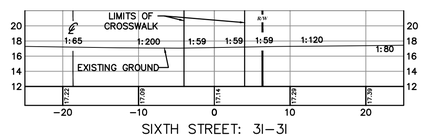

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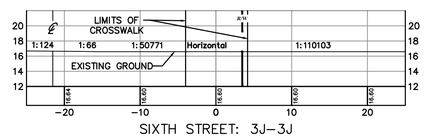

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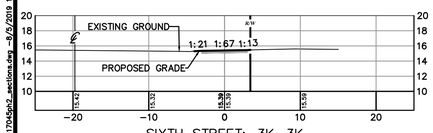
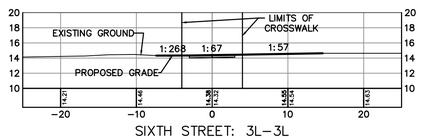
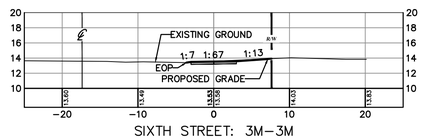


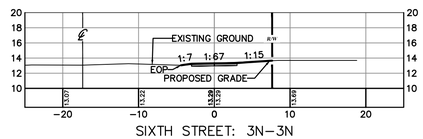
SIXTH STREET: 3K–3K



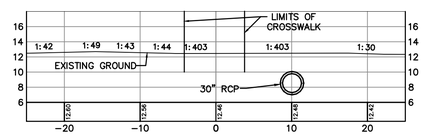
SIXTH STREET: 3L–3L



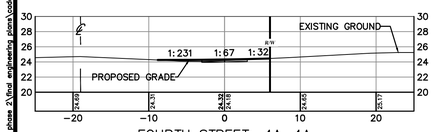
SIXTH STREET: 3M–3M



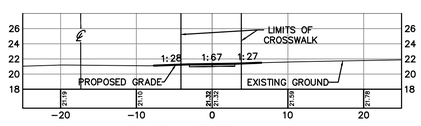
SIXTH STREET: 3N–3N



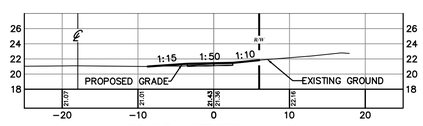
SIXTH STREET: 3O–3O



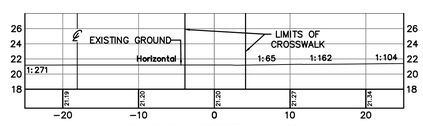
FOURTH STREET: 4A–4A



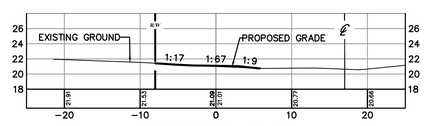
FOURTH STREET: 4B–4B



FOURTH STREET: 4C–4C



FOURTH STREET: 4D–4D



FIFTH STREET: 5A–5A

LEGEND

RIGHT OF WAY LINE

CENTERLINE OF RIGHT OF WAY

EOP	EDGE OF PAVEMENT
1:4	PROPOSED SLOPE
	PROPOSED GRADE
— — —	EXISTING GRADE

ZEV COHEN & ASSOCIATES, INC.
1000 WILLIAMSON BLVD, STE C
ORMOND BEACH, FL 32174
WWW.ZEVCOHEN.COM

CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION
(LC 682)
(EB 4516)

NO	DATE	REVISIONS	BY

DERBYSHIRE SIDEWALKS PHASE 2
90% ENGINEERING PLANS
STREET SIDEWALK SECTIONS

VOLUSIA COUNTY, FL
CITY OF DAYTONA BEACH

PROJECT NO: ZC17045
ISSUE DATE: 03-26-2018
DESIGNED BY: KR
DRAFTED BY: TL
CHECKED BY: BWS

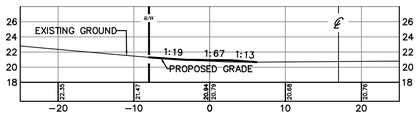
DRAWING FILE: 27-34-17045PH2_SECTIONS
XREFS: 17045PH2_BAS.dwg
XREFS: 17045PH2-TIB.dwg

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

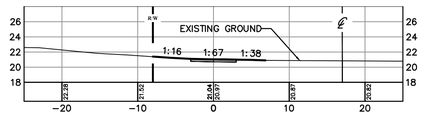
SCALE: 1"=20'

SHEET: C24 OF 31

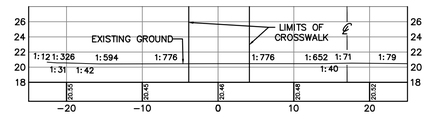
c:\17045 - derbyshire sidewalk phase 2\final engineering plans\coddwgs\27-34-17045ph2_sections.dwg -9/5/2019 10:38 AM



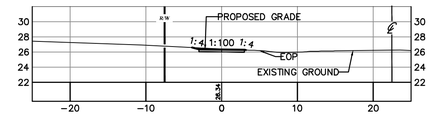
FIFTH STREET: 5B–5B



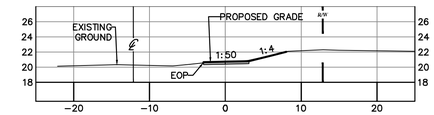
FIFTH STREET: 5C–5C



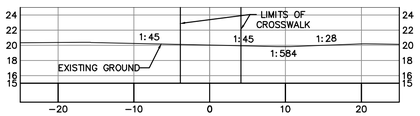
FIFTH STREET: 5D–5D



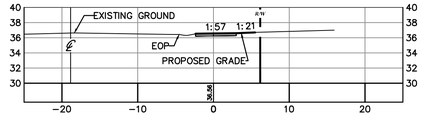
DERBYSHIRE ROAD: 6A–6A



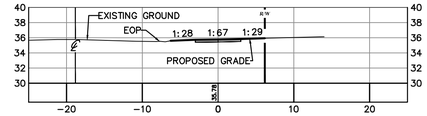
WHITE STREET: 7A–7A



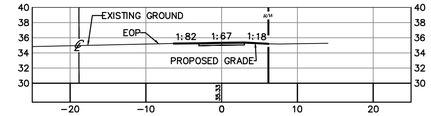
WHITE STREET: 7B–7B



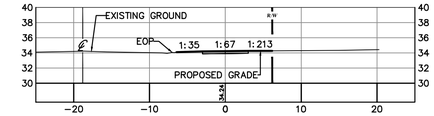
BRENTWOOD DRIVE: 10+00.00



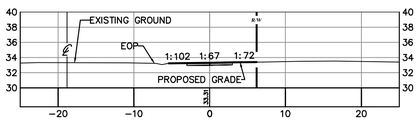
BRENTWOOD DRIVE: 10+50.00



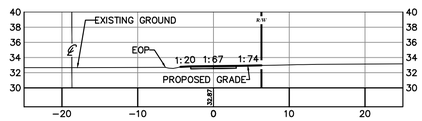
BRENTWOOD DRIVE: 11+00.00



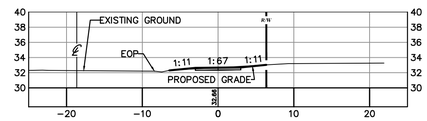
BRENTWOOD DRIVE: 11+50.00



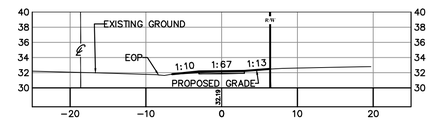
BRENTWOOD DRIVE: 12+00.00



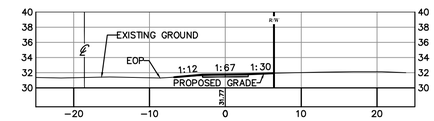
BRENTWOOD DRIVE: 12+50.00



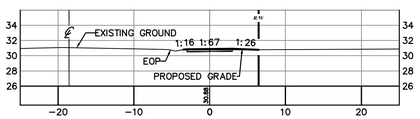
BRENTWOOD DRIVE: 13+00.00



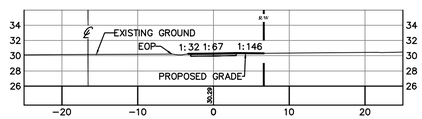
BRENTWOOD DRIVE: 13+50.00



BRENTWOOD DRIVE: 14+00.00



BRENTWOOD DRIVE: 14+50.00



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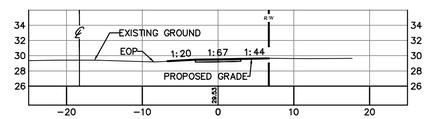
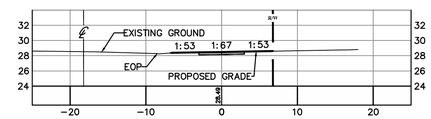
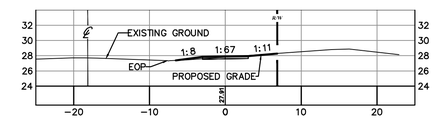


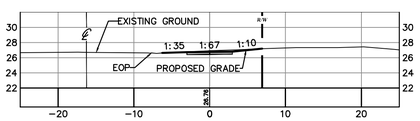
BRENTWOOD DRIVE: 15+50.00



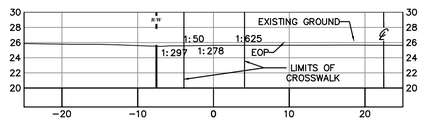
BRENTWOOD DRIVE: 16+00.00



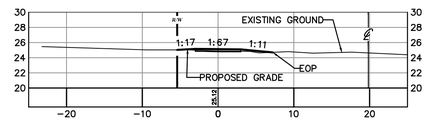
BRENTWOOD DRIVE: 16+50.00



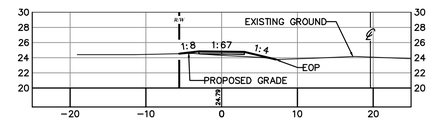
BRENTWOOD DRIVE: 17+00.00



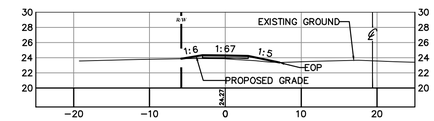
BRENTWOOD DRIVE: 17+50.00



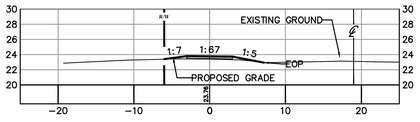
BRENTWOOD DRIVE: 18+00.00



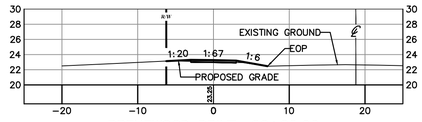
BRENTWOOD DRIVE: 18+50.00



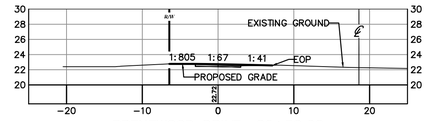
BRENTWOOD DRIVE: 19+00.00



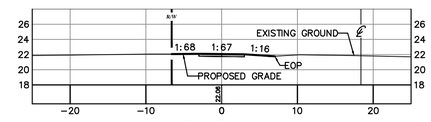
BRENTWOOD DRIVE: 19+50.00



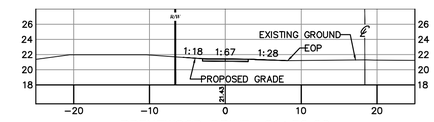
BRENTWOOD DRIVE: 20+00.00



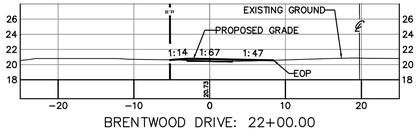
BRENTWOOD DRIVE: 20+50.00



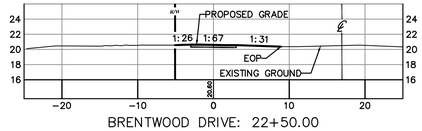
BRENTWOOD DRIVE: 21+00.00



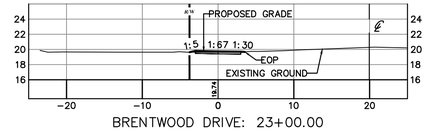
BRENTWOOD DRIVE: 21+50.00



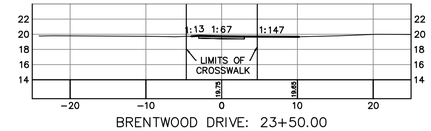
BRENTWOOD DRIVE: 22+00.00



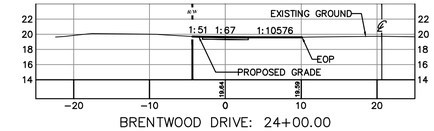
BRENTWOOD DRIVE: 22+50.00



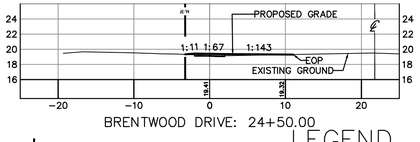
BRENTWOOD DRIVE: 23+00.00



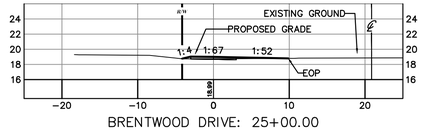
BRENTWOOD DRIVE: 23+50.00



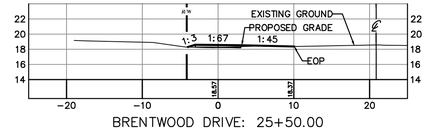
BRENTWOOD DRIVE: 24+00.00



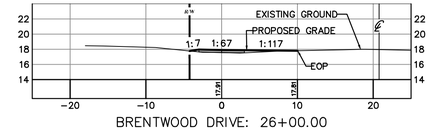
BRENTWOOD DRIVE: 24+50.00



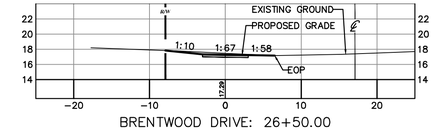
BRENTWOOD DRIVE: 25+00.00



BRENTWOOD DRIVE: 25+50.00



BRENTWOOD DRIVE: 26+00.00



BRENTWOOD DRIVE: 26+50.00

LEGEND

RIGHT OF WAY LINE

CENTERLINE OF RIGHT OF WAY

EOP EDGE OF PAVEMENT

1:4 PROPOSED SLOPE

PROPOSED GRADE

EXISTING GRADE

ZEV COHEN & ASSOCIATES, INC.
1000 WILLIAMSON BLVD., STE. C
ORMOND BEACH, FL 32174
WWW.ZEVCOHEN.COM

CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION
(LC-642)
(EB 4516)

NO	DATE	REVISIONS	BY

DERBYSHIRE SIDEWALKS PHASE 2
90% ENGINEERING PLANS
STREET SIDEWALK SECTIONS

VOLUSIA COUNTY, FL
CITY OF DAYTONA BEACH

PROJECT NO: ZC17045
ISSUE DATE: 03-26-2018
DESIGNED BY: KR
DRAFTED BY: TL
CHECKED BY: BWS

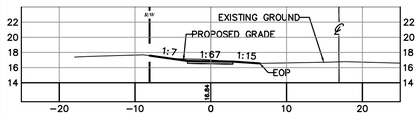
DRAWING FILE: 27-34-17045PH2_SECTIONS
XREFS: 17045PH2_BAS.dwg
XREFS: 17045PH2-TIB.dwg

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

SCALE: 1"=20'

SHEET: C25 OF 31

n:\17045 - derbyshire sidewalk phase 2\final engineering plans\roadway\27-34-17045ph2_sections.dwg -8/9/2019 12:02 PM



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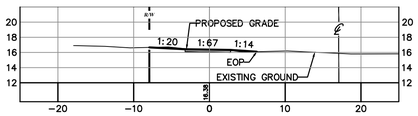

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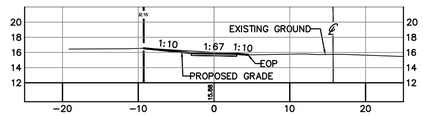

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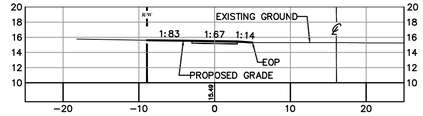

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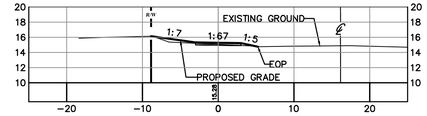

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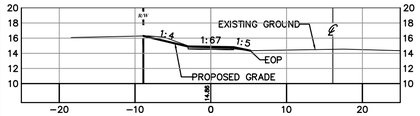

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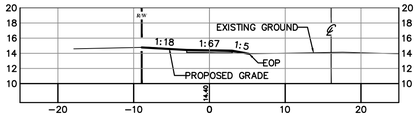

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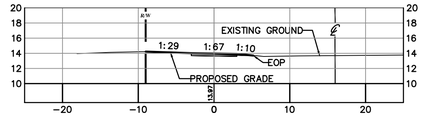

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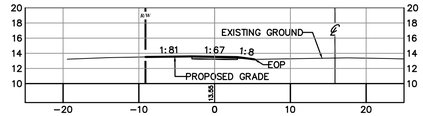

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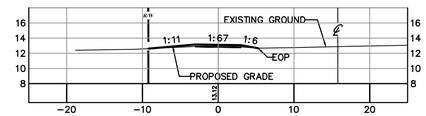

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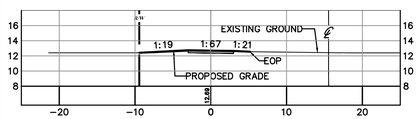

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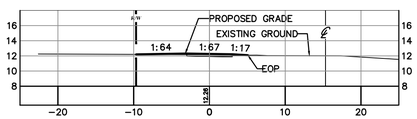

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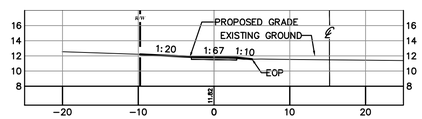

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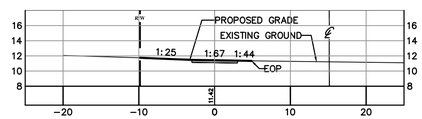

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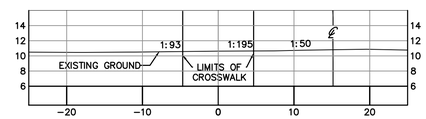

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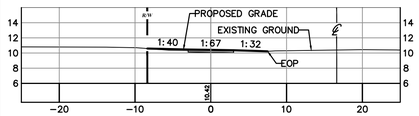

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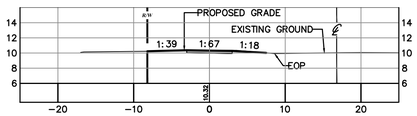

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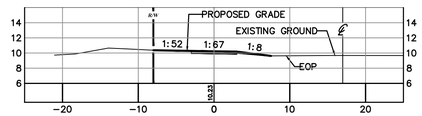

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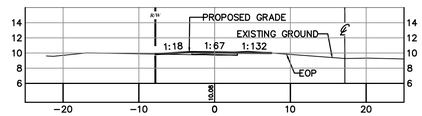

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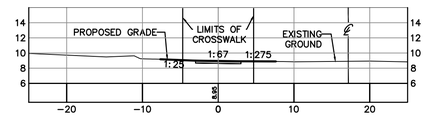

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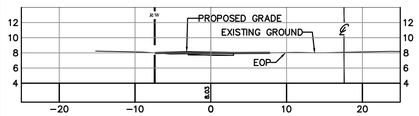

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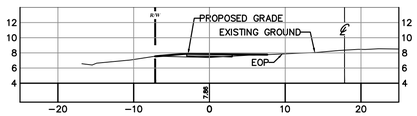

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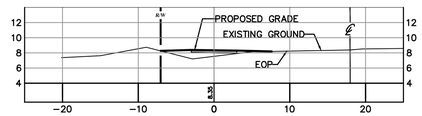

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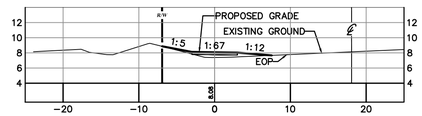

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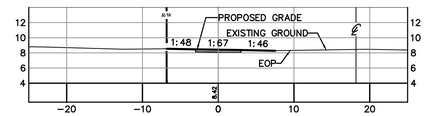

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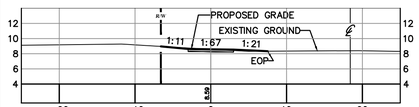

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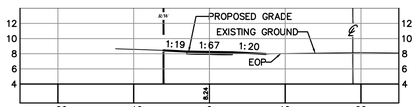

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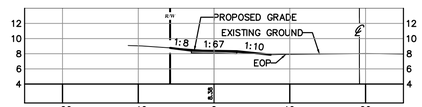

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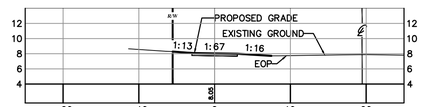

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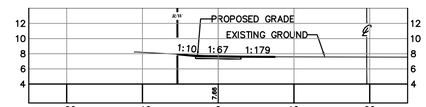

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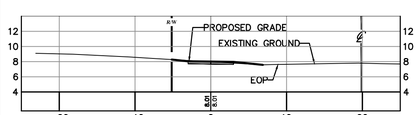

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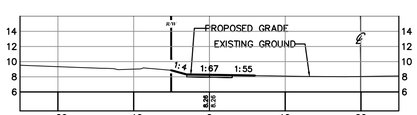

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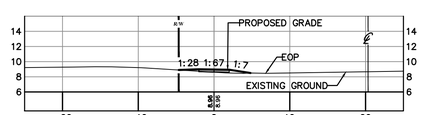

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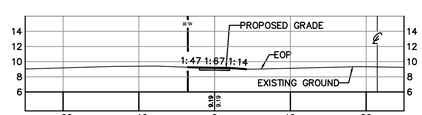

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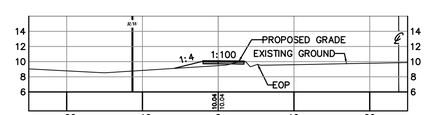

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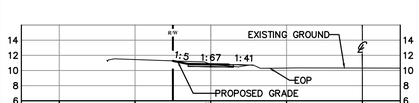
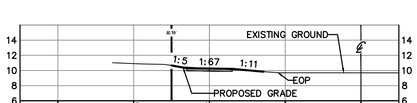


VINE STREET SOUTH 10+00.00



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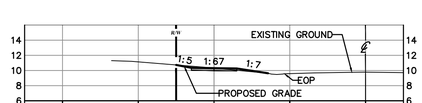

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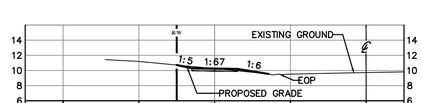

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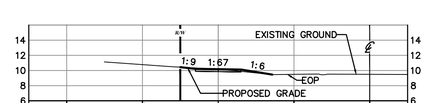

VINE STREET SOUTH 12+00.00

LEGEND

RIGHT OF WAY LINE

CENTERLINE OF RIGHT OF WAY

EOP	EDGE OF PAVEMENT
1:4	PROPOSED SLOPE
———	PROPOSED GRADE
— — —	EXISTING GRADE

ZEV COHEN & ASSOCIATES, INC.
1800 WEST ISLAND BLVD., SUITE C
ORMOND BEACH, FL 32174
WWW.ZEVCOHEN.COM

CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION
(LC 682)
(EB 4516)

NO	DATE	REVISIONS	BY

DERBYSHIRE SIDEWALKS PHASE 2
90% ENGINEERING PLANS
STREET SIDEWALK SECTIONS

VOLUSIA COUNTY, FL
CITY OF DAYTONA BEACH

PROJECT NO: ZC17045
ISSUE DATE: 03-26-2018
DESIGNED BY: KR
DRAFTED BY: TL
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DRAWING FILE: 27-34-17045PH2_SECTIONS
XREFS: 17045PH2_BAS.dwg
XREFS: 17045PH2-TIB.dwg

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

SCALE: 1"=20'

SHEET: C26 OF 31

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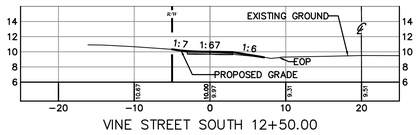

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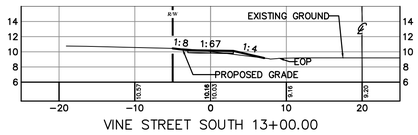

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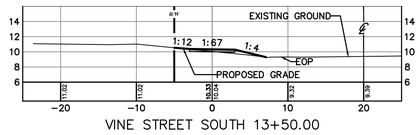

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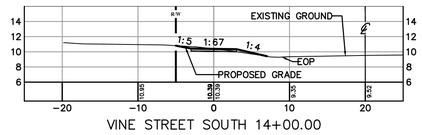

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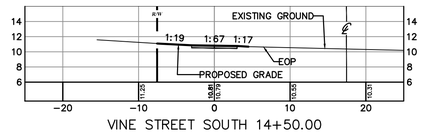
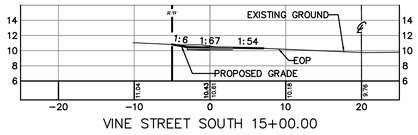


VINE STREET SOUTH 14+50.00



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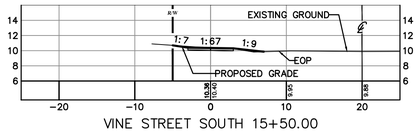

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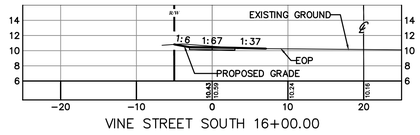

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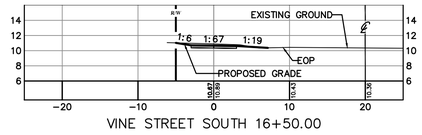
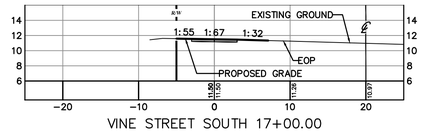


VINE STREET SOUTH 16+50.00



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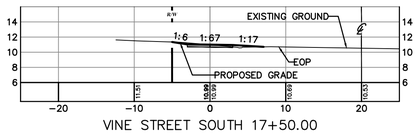

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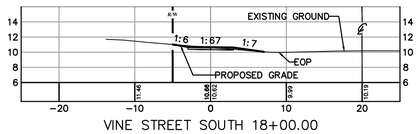

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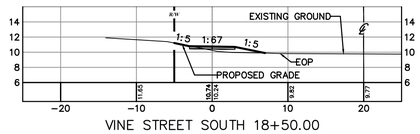

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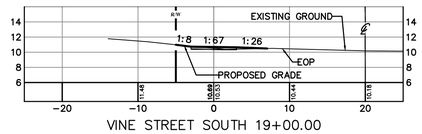

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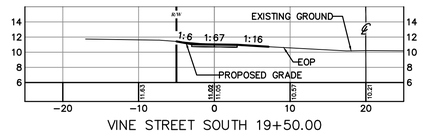

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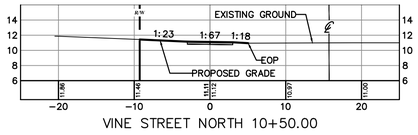
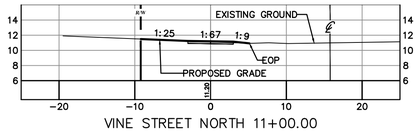


VINE STREET NORTH 10+50.00



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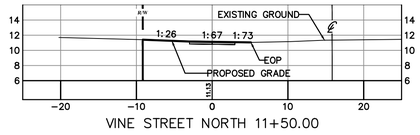

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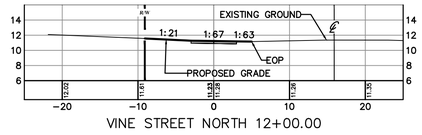

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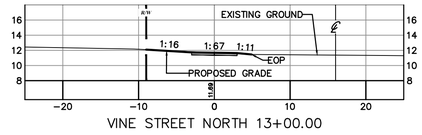

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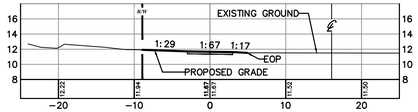

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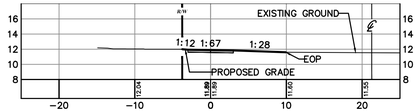

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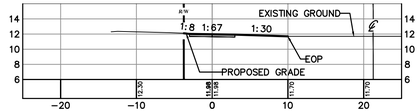

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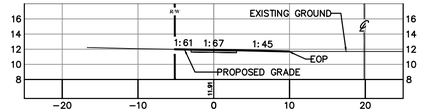

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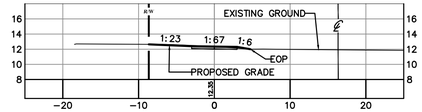

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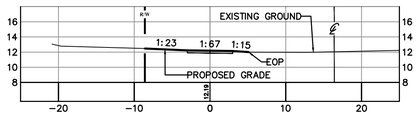

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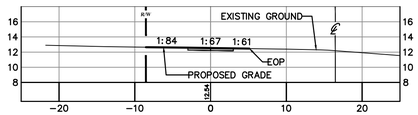

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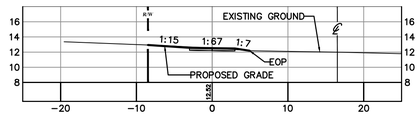

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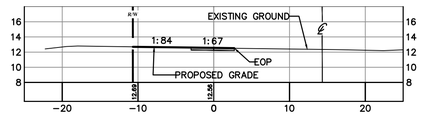

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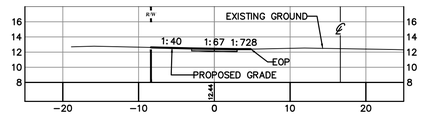

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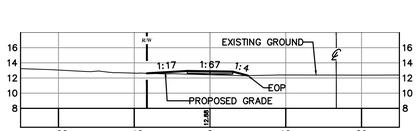

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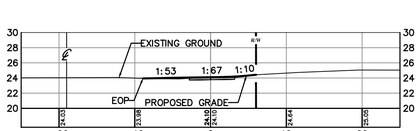
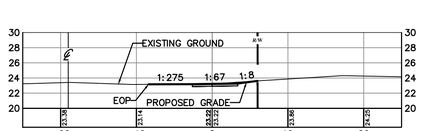
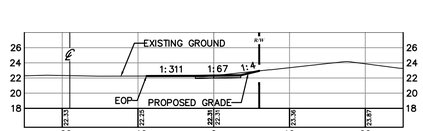


FOURTH STREET 10+50.00



FOURTH STREET 11+00.00



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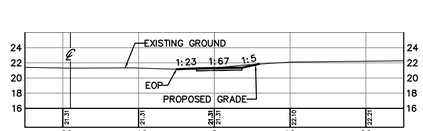
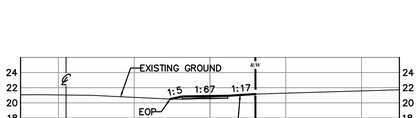


FOURTH STREET 12+00.00



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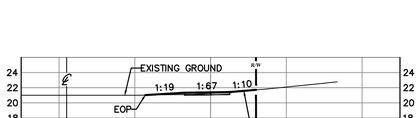

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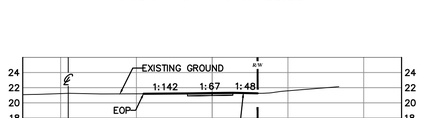
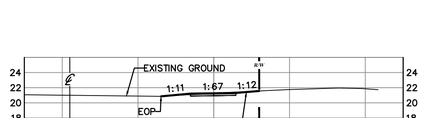
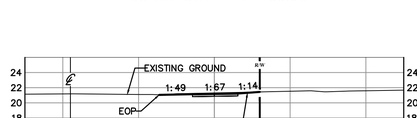


FOURTH STREET 13+50.00



FOURTH STREET 14+00.00



FOURTH STREET 14+50.00

LEGEND

RIGHT OF WAY LINE

CENTERLINE OF RIGHT OF WAY

EOP	EDGE OF PAVEMENT
1:4	PROPOSED SLOPE
———	PROPOSED GRADE
— — —	EXISTING GRADE

ZEV COHEN & ASSOCIATES, INC.
1000 HAND AVENUE, SUITE C
ORMOND BEACH, FL 32174
WWW.ZEVCOHEN.COM

CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION
(LC 682)
(EB 4516)

NO	DATE	REVISIONS	BY

DERBYSHIRE SIDEWALKS PHASE 2
90% ENGINEERING PLANS
STREET SIDEWALK SECTIONS

VOLUSIA COUNTY, FL
CITY OF DAYTONA BEACH

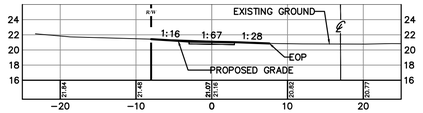
PROJECT NO: ZC17045
ISSUE DATE: 03-26-2018
DESIGNED BY: KR
DRAFTED BY: TL
CHECKED BY: BWS
DRAWING FILE: 27-34-17045PH2_SECTIONS
XREFS: 17045PH2_BAS.dwg
XREFS: 17045PH2-TIB.dwg

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

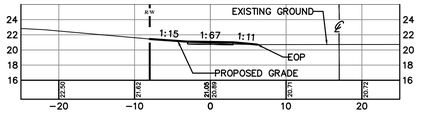
SCALE: 1"=20'

SHEET: C27 OF 31

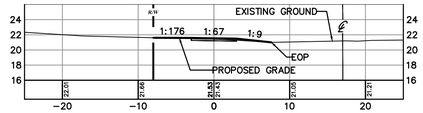
r:\17045 - derbyshire sidewalk phase 2\final engineering plans\roadway\27-34-17045ph2_sections.dwg -9/5/2019 10:39 AM



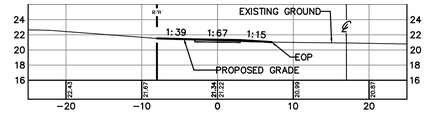
FIFTH STREET 11+00.00



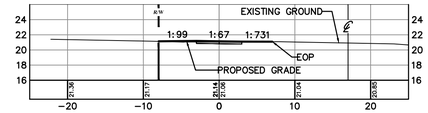
FIFTH STREET 11+50.00



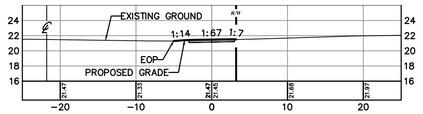
FIFTH STREET 12+00.00



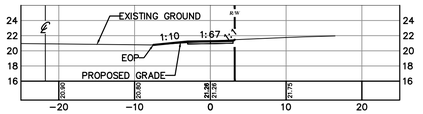
FIFTH STREET 12+50.00



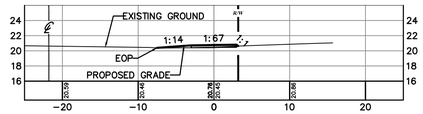
FIFTH STREET 13+00.00



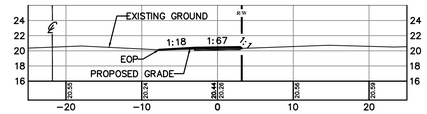
SIXTH STREET 10+50.00



SIXTH STREET 11+00.00



SIXTH STREET 11+50.00



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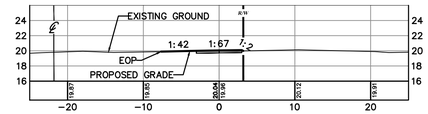

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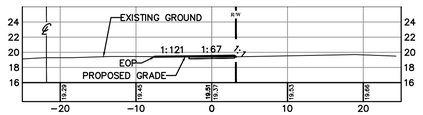

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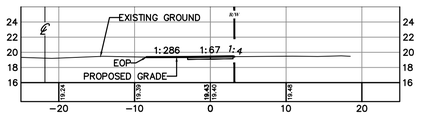
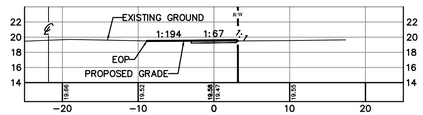
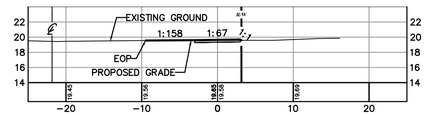


SIXTH STREET 14+50.00



SIXTH STREET 15+00.00



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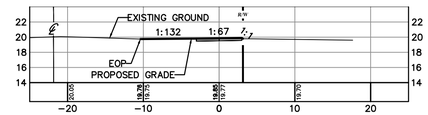
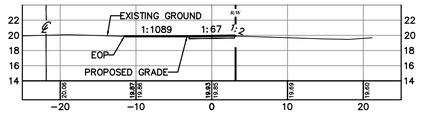


SIXTH STREET 16+50.00



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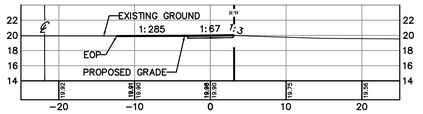

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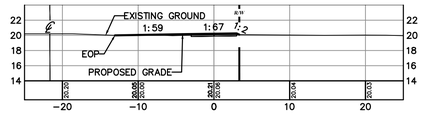
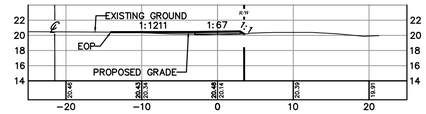
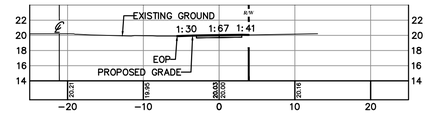


SIXTH STREET 18+50.00



SIXTH STREET 19+00.00



SIXTH STREET 19+50.00

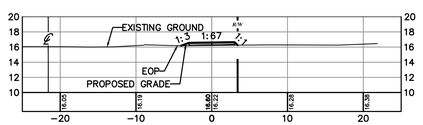
SIXTH STREET 20+00.00

SIXTH STREET 20+50.00

SIXTH STREET 21+00.00

SIXTH STREET 21+50.00

SIXTH STREET 22+00.00



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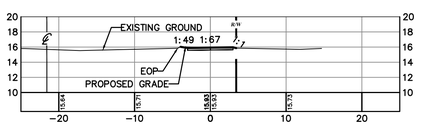

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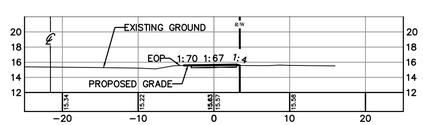

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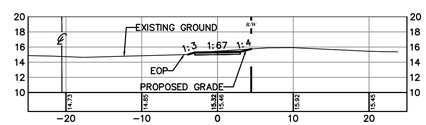
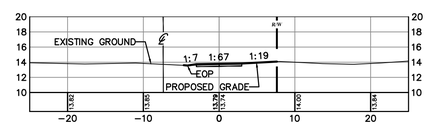
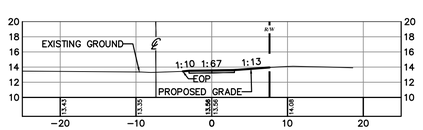


SIXTH STREET 24+00.00



SIXTH STREET 25+00.00



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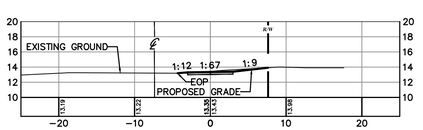
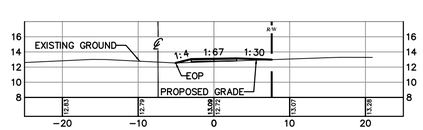


SIXTH STREET 26+00.00



SIXTH STREET 26+50.00

LEGEND

R/W — RIGHT OF WAY LINE	
℄ — CENTERLINE OF RIGHT OF WAY	
EOP	EDGE OF PAVEMENT
1:4	PROPOSED SLOPE
———	PROPOSED GRADE
— — —	EXISTING GRADE

ZEV COHEN & ASSOCIATES, INC.
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WWW.ZEVCOHEN.COM

CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION
(LC 682)
(EB 4516)

NO	DATE	REVISIONS	BY

DERBYSHIRE SIDEWALKS PHASE 2
90% ENGINEERING PLANS
STREET SIDEWALK SECTIONS

VOLUSIA COUNTY, FL.
CITY OF DAYTONA BEACH

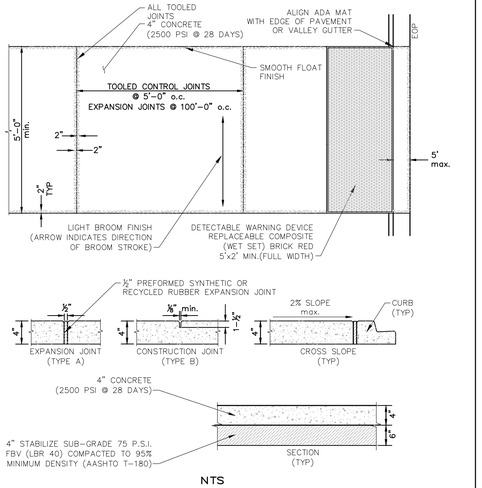
PROJECT NO: ZC17045
ISSUE DATE: 03-26-2018
DESIGNED BY: KR
DRAFTED BY: TL
CHECKED BY: BWS
DRAWING FILE: 27-34-17045PH2_SECTIONS
XREFS: 17045PH2_BAS.dwg
XREFS: 17045PH2-TIB.dwg

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

SCALE: 1"=20'

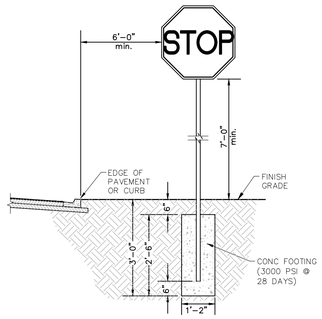
SHEET: C28 OF 31

c:\17045 - derbyshire sidewalk phase 2\final engineering plans\coddwgs\27-34-17045ph2_sections.dwg -9/5/2019 10:39 AM



NTS

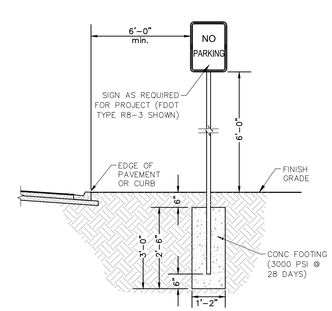
THE CITY OF DAYTONA BEACH ENGINEERING DIVISION	SIDEWALK CONSTRUCTION DETAIL C-1	Drawing Date: 11/2000 Drawn By: PFT Checked By: Scale: NTS Revision Date: 08/2015 File Name: dc-1



NOTES:

1. STOP SIGN SHALL CONFORM WITH CURRENT FEDERAL, STATE & LOCAL CODES & REGULATIONS, LATEST EDITION.
2. STOP SIGN (FDOT R1-1) WILL BE FABRICATED BY USING A WHITE REFLECTIVE COATING IN THE TEXT & BORDER W/ A RED REFLECTIVE BACK GROUND APPLIED TO A SHEET ALUMINUM BACKING 30" OCTAGONAL SHAPE (0.80" THK).
3. MESSAGE LETTERING SHALL BE UPPER CASE (SERIES B) 10" HIGH W/ ¾" WHITE REFLECTIVE BORDER IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
4. ALUMINUM SIGN POSTS TO BE 2-½"ø. ALL BOLTS, NUTS, WASHERS AND SCREWS MUST BE 316 STAINLESS STEEL.
5. CONCRETE FOOTING SHALL BE OF PORTLAND CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I.
6. SIGN POST SHALL BE MINIMUM 6'-0" CLEAR FROM BACK OF CURB OR EDGE OF PAVEMENT.
7. SIGN POST SHALL BE DESIGNED TO WITHSTAND 120 M.P.H. WIND LOAD.

THE CITY OF DAYTONA BEACH ENGINEERING DIVISION	STOP SIGN INSTALLATION DETAIL (FDOT TYPE R1-1) T-1	Drawing Date: 12/2003 Drawn By: PFT Checked By: Scale: NTS Revision Date: 10/2011 File Name: st-1



NTS

NOTES:

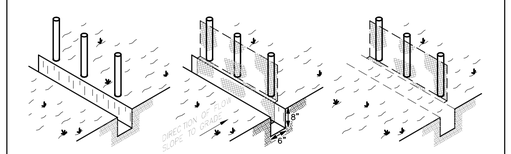
1. STOP SIGN SHALL CONFORM WITH CURRENT FEDERAL, STATE & LOCAL CODES & REGULATIONS, LATEST EDITION.
2. SIGNS WILL BE FABRICATED BY USING A REFLECTING COATING IN THE TEXT & BORDER APPLIED TO A SHEET ALUMINUM BACKING (0.80" IN THICKNESS).
3. MESSAGE LETTERING SHALL BE UPPER CASE (SERIES B) 2" HIGH IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
4. METAL SIGN POSTS TO BE GALVANIZED U-IRON. ALL BOLTS, NUTS, WASHERS AND SCREWS MUST BE 316 STAINLESS STEEL.
5. CONCRETE FOOTING SHALL BE OF PORTLAND CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I.
6. SIGN POST SHALL BE MINIMUM 6'-0" CLEAR FROM BACK OF CURB OR EDGE OF PAVEMENT.
7. SIGN POST SHALL BE DESIGNED TO WITHSTAND 120 M.P.H. WIND LOAD.

THE CITY OF DAYTONA BEACH ENGINEERING DIVISION	STANDARD SIGN INSTALLATION DETAIL (FDOT TYPE R11-1) T-2	Drawing Date: 12/2003 Drawn By: PFT Checked By: Scale: NTS Revision Date: 10/2011 File Name: st-7

EROSION & SEDIMENT CONTROL NOTES

1. ALL CONSTRUCTION ACTIVITIES SHALL INCORPORATE BEST MANAGEMENT PRACTICES (BMP'S) TO CONTROL EROSION, SEDIMENTATION, AND THE POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
2. CONTRACTOR SHALL MINIMIZE DISTURBANCE OF EXISTING VEGETATION, (PARTICULARLY AROUND THE PROJECT PERIMETER) AND ADJACENT EXISTING DRAINAGE PATTERNS TO THE MAXIMUM EXTENT PRACTICAL DURING THE CONSTRUCTION PROCESS.
3. SILT FENCES AND TURBIDITY BARRIERS SHALL BE INSTALLED ON SITE AND APPROVED BY THE CITY PRIOR TO CONSTRUCTION, AND SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AND CORRECTIVE ACTION TAKEN AS NECESSARY.
4. STORMWATER RETENTION, DETENTION, STORAGE AND CONVEYANCE SYSTEMS MUST BE EXCAVATED TO ROUGH GRADE PRIOR TO BUILDING CONSTRUCTION OR PLACEMENT OF IMPERVIOUS SURFACE WITHIN THE AREA SERVED BY THOSE SYSTEMS. ADEQUATE MEASURES MUST BE TAKEN TO PREVENT SILTATION OF THESE TREATMENT SYSTEMS AND CONTROL STRUCTURES DURING CONSTRUCTION. SILTATION MUST BE REMOVED FROM THE STORMWATER SYSTEM WHEN HALF FULL AND IMMEDIATELY PRIOR TO FINAL GRADING AND GRASSING OF THE PROJECT.
5. CONTRACTOR SHALL SOD ALL SWALES AND STORMWATER FACILITIES IN ACCORDANCE WITH TEMPORARY BMP'S WITHIN 14 DAYS AFTER CONSTRUCTION. THIS IS REQUIRED TO STABILIZE THE SLOPES AND MINIMIZE EROSION.
6. DURING ALL CONSTRUCTION OF THE PERMITTED SYSTEM INCLUDING STABILIZATION AND REVEGETATION OF DISTURBED SURFACES, CONTRACTOR IS RESPONSIBLE FOR THE SELECTION, IMPLEMENTATION, AND OPERATION OF ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN ALL SEDIMENT ONSITE AND PREVENT VIOLATIONS OF THE WATER QUALITY STANDARDS IN ACCORDANCE WITH THE FLORIDA ADMINISTRATIVE CODE AND PROJECT PERMIT REQUIREMENTS.
7. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN A PROTECTIVE COVER (VEGETATIVE OR SUITABLE ALTERNATIVE) FOR EROSION AND SEDIMENT CONTROL ON ALL LAND SURFACES EXPOSED OR DISTURBED BY CONSTRUCTION OF THE PERMITTED PROJECT, UNLESS MODIFIED BY ANOTHER CONDITION OF THE PERMIT OR OTHERWISE SPECIFIED ON A DISTRICT APPROVED EROSION AND SEDIMENT CONTROL PLAN. THE PROTECTIVE COVER MUST BE INSTALLED WITHIN FOURTEEN (14) DAYS AFTER FINAL GRADING OF THE AFFECTED LAND SURFACE. A PERMANENT VEGETATIVE COVER MUST BE ESTABLISHED WITHIN 60 DAYS OF IT'S INSTALLATION. THE PERMITTEE'S REQUIREMENT TO MAINTAIN COVER ON OFFSITE AND ONSITE SURFACES SHALL NOT BE COMPLETE UNTIL AFTER THE WATER MANAGEMENT DISTRICT RECEIVES THE PERMITTEE'S STATEMENT OF COMPLIANCE.
8. AT A MINIMUM, SILT FENCES AND TURBIDITY BARRIERS SHALL BE INSTALLED PER PLAN. ADDITIONAL BMP MEASURES MUST BE TAKEN TO MINIMIZE IMPACTS OF RECEIVING WATERS SUCH AS THE USE OF APPROVED BARRIERS AT INLETS, ADDITIONAL SILT FENCING, SOIL ANTI-TRACKING DEVICES AND SODDING.
9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE PROJECT LIMITS IN COMPLIANCE WITH ALL JURISDICTIONAL PERMIT AND CITY REQUIREMENTS.
10. ANY TIME THE CONTRACTOR NEEDS TO SUBMIT A NOTICE OF INTENT TO USE A GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES, A COPY OF THE PERMIT SHALL ALSO BE SUBMITTED TO THE CITY OF DAYTONA BEACH UTILITIES DEPARTMENT.
11. THE CONTRACTOR SHALL AS A MINIMUM PREPARE AND IMPLEMENT AN EROSION AND SEDIMENT CONTROL PLAN IN ACCORDANCE WITH FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) GUIDELINES.
12. DEWATERING ACTIVITIES SHALL BE APPROVED BY THE UTILITIES DEPARTMENT BEFORE DISCHARGING INTO THE CITY'S MS4 SYSTEM (STORMWATER CONSTRUCTION NOTES – NOTE 3).

THE CITY OF DAYTONA BEACH ENGINEERING DIVISION	EROSION AND SEDIMENT CONTROL NOTES ST-5	FY-18/19 Drawing Date: 01/08 Drawn By: KLH Checked By: JMP Scale: N/A Revision Date: File Name: Erosion Notes ST-5 Page 119

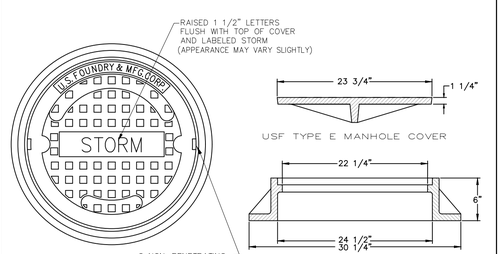


NTS

NOTES:

1. MATERIALS, CONSTRUCTION METHODS AND MAINTENANCE SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND DESIGN STANDARDS CURRENT EDITION.
2. CONTRACTOR SHALL PROVIDE SILT FENCES, TURBIDITY BARRIERS OR APPROVED BARRIERS AT ALL STORMWATER DISCHARGE POINTS FOR EROSION CONTROL AND SEDIMENT CONTROL DURING CONSTRUCTION. DEPENDING UPON FLOW VELOCITIES AND VOLUME, REDUNDANT (MULITPLE) PARALLEL FENCES MAY BE NEEDED.
3. CONTRACTOR SHALL ROUGH GRADE STORMWATER SWALES AND RETENTION AREAS VEGETATING IN COMPLIANCE WITH BEST MANAGEMENT PRACTICES PRIOR TO CONSTRUCTION OF SITE IMPROVEMENTS.
4. CONTRACTOR SHALL MEET ALL PERMIT CONDITIONS AS ESTABLISHED BY THE CITY OF DAYTONA BEACH AND ALL OTHER APPLICABLE AGENCIES, INCLUDING BUT NOT LIMITED TO COUNTY, FDOT, STATE, FEDERAL, AND THE SJRWMD.

THE CITY OF DAYTONA BEACH ENGINEERING DIVISION	STAKED SILT FENCE DETAIL ST-14	FY- 18/19 Drawing Date: 01/08 Drawn By: KLH Checked By: JMP Scale: NTS Revision Date: File Name: Silt Fence ST-14 Page 124



NOTES:

1. MORTAR TO CONTAIN "HYDRATITE", OR APPROVED EQUAL, TO PREVENT SHRINKAGE.
2. SUB-GRADE BENEATH MANHOLES SHALL BE FIRM UNDISTURBED GRANULAR UNSATURATED SOIL. No. 57 AGGREGATE STONE SHALL BE USED IN WET CONDITIONS AND/OR WHERE UNSUITABLE MATERIAL IS ENCOUNTERED.
3. UNLESS DETAILED PLANS SHOW OTHERWISE, ALL MANHOLE RING AND COVER CASTINGS IN PAVED AREAS ARE TO BE ADJUSTED TO FINAL GRADE, SEALED AND SECURED IN PLACE WITH A CONCRETE COLLAR AFTER THE ROAD BASE IS PLACED AND JUST PRIOR TO PLACEMENT OF ASHPALT WEARING SURFACE.
4. CONTRACTOR SHALL PROVIDE THICKER MANHOLE WALLS AND BASES AS REQUIRED TO PREVENT FLOTATION BASED ON HISTORIC HIGH GROUND WATER TABLE ELEVATIONS AS DETERMINED USING ACCEPTED ENGINEERING PRACTICES AND/OR APPROVED BY THE UTILITIES DEPARTMENT.
5. CONCRETE COLLAR AROUND MANHOLE FRAME IS REQUIRED IN PAVED AREAS ONLY.
6. SHOP DRAWINGS FOR ALL STRUCTURES SHALL BE SUBMITTED TO AND APPROVED BY THE DESIGN ENGINEER PRIOR TO INSTALLATION.
7. NO BUG HOLES OR HONEYCOMB WILL BE ACCEPTED.
8. ENDS OF SECTION SHALL FIT FLUSH TOGETHER
9. MANHOLES SHALL BE CLEARED OF ALL DEBRIS PRIOR TO CITY ACCEPTANCE AND SYSTEM USE.

THE CITY OF DAYTONA BEACH ENGINEERING DIVISION	STORM-SEWER COVER DETAIL & MH GENERAL NOTES ST-21	FY- 18/19 Drawing Date: 01/08 Drawn By: KLH Checked By: JMP Scale: NTS Revision Date: File Name: Storm Cover ST-21 Page 131

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ORMOND BEACH, FL 32174
WWW.ZEVCOHEN.COM

CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION
(LC 62)
(EB 4516)

NO	DATE	REVISIONS	BY

DERBYSHIRE SIDEWALKS PHASE 2
90% ENGINEERING PLANS
CONSTRUCTION DETAILS
VOLUSIA COUNTY, FL.
CITY OF DAYTONA BEACH

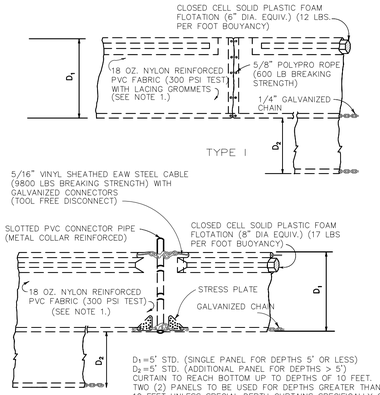
PROJECT NO: ZC17045
ISSUE DATE: 03-26-2018
DESIGNED BY: KR
DRAFTED BY: TL
CHECKED BY: BWS
DRAWING FILE: 35-36_17045PH2_DET
XREFS: 17045PH2_BAS.dwg
XREFS: 17045PH2-TIB.dwg

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

SCALE: AS NOTED

SHEET: C29 OF 31

c:\17045 - derbyshire sidewalk phase 2\final engineering plans\cadd\xrefs\35-36_17045ph2_det.dwg - 8/5/2019 10:39 AM



D_1=5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS)
D_2=5' STD. (ADDITIONAL PANEL FOR DEPTHS > 5')
CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET.
TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

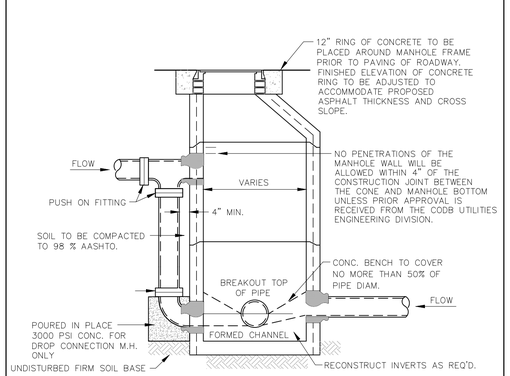
NOTE:
1. USE 18 OZ. NYLON REINFORCED PVC FABRIC FOR STANDING WATER. USE FILTER FABRIC FOR FLOWING WATER.

NOTICE:
COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE CITY.

THE CITY OF DAYTONA BEACH
ENGINEERING DIVISION

FLOATING TURBIDITY BARRIER DETAIL
ST-14

FY-19/20 | Drawing Date: 01/08 | Drawn By: RLH | Checked By: JMP | Scale: N.T.S. | Revision Date: 01/19 | File Name: Barrier_St-14 | Page 113



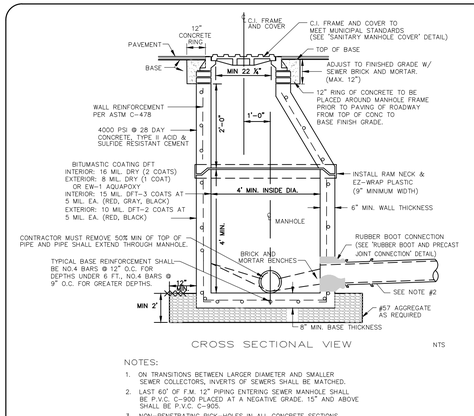
NOTE:
GENERAL NOTES ON 'SANITARY SEWER MANHOLE AND GENERAL NOTES' DETAIL APPLY HERE

1. DROPS OF MORE THAN THREE FEET SHALL REQUIRE AN OUTSIDE DROP
2. NO RISER RINGS SHALL BE USED FOR NEW CONSTRUCTION.
3. ALL CONCRETE INSIDE THE MANHOLE SHALL BE PAINTED.

THE CITY OF DAYTONA BEACH
UTILITIES DEPARTMENT

OUTSIDE DROP SANITARY MANHOLE DETAIL
S-12

FY-19/20 | Drawing Date: 01/08 | Drawn By: RLH | Checked By: JMP | Scale: N.T.S. | Revision Date: 01/19 | File Name: Outside Drop Manhole S-12 | Page 74



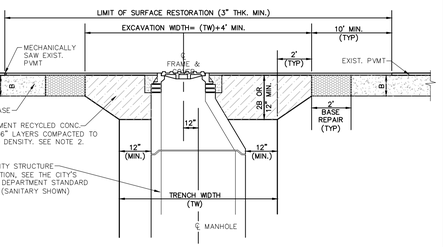
CROSS SECTIONAL VIEW NTS

NOTES:
1. ON TRANSITIONS BETWEEN LARGER DIAMETER AND SMALLER SEWER COLLECTORS, INVERTS OF SEWERS SHALL BE MATCHED.
2. LAST 60' OF F.M. 12" PIPING ENTERING SEWER MANHOLE SHALL BE P.V.C. C-900 PLACED AT A NEGATIVE GRADE 15" AND ABOVE SHALL BE P.V.C. C-905.
3. NON-PENETRATING PICK-HOLES IN ALL CONCRETE SECTIONS.
4. DFT = DRY FILM THICKNESS
5. 0.1' – DROP ACROSS MANHOLE TYP. (MEASURED DIA. OF CONCRETE RING)
6. MANHOLES 8' DEEP OR GREATER SHALL HAVE A MIN. 4' HIGH WALL BASE.
7. ANY PIPE ENTERING MANHOLE MUST HAVE A RUBBER BOOT CONNECTION.
8. MORTAR TO CONTAIN "HYDRATITE", OR APPROVED EQUAL, TO PREVENT SHRINKAGE.
9. SUB-GRADE BENEATH MANHOLES SHALL BE UNDISTURBED GRANULAR UNSATURATED SOIL. No. 57 AGGREGATE STONE SHALL BE USED IN WET CONDITIONS AND/OR WHERE UNSUITABLE MATERIAL IS ENCOUNTERED.
10. CONTRACTOR SHALL PROVIDE THICKER MANHOLE WALLS AND BASES AS REQUIRED TO PREVENT FLOTATION BASED ON HISTORIC HIGH GROUND WATER TABLE ELEVATIONS AS DETERMINED USING ACCEPTED ENGINEERING PRACTICES AND/OR APPROVED BY UTILITIES DEPARTMENT.
11. SHOP DRAWINGS FOR ALL STRUCTURES SHALL BE SUBMITTED TO AND APPROVED BY THE DESIGN ENGINEER PRIOR TO INSTALLATION.
12. NO IRREGULAVITIES OR HONEYCOMB WILL BE ACCEPTED.
13. ENDS OF THE TOP AND BOTTOM SECTIONS OF THE MANHOLE SHALL FIT FLUSH TOGETHER.

THE CITY OF DAYTONA BEACH
UTILITIES DEPARTMENT

SANITARY SEWER MANHOLE AND GENERAL NOTES
S-11

FY-19/20 | Drawing Date: 01/08 | Drawn By: RLH | Checked By: JMP | Scale: NTS | Revision Date: 01/19 | File Name: Manhole S-11 | Page 73



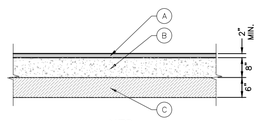
NTS

NOTES:
1. THIS DETAIL PERTAINS TO ALL UTILITY SANITARY AND STORM STRUCTURES WITHIN THE CITY OF DAYTONA BEACH RIGHTS-OF-WAY.
2. ALL MATERIALS ARE TO BE APPROVED BY THE CITY ENGINEER AND THE PROJECT'S LICENSED SOILS ENGINEER PRIOR TO PLACEMENT.
3. COMPACTION, STABILITY & DENSITY TESTING ARE TO BE DONE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROADWAY & BRIDGE CONSTRUCTION, LATEST EDITION.
4. WHERE SOIL CONDITIONS CAN NOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE APPROVED METHOD OF CONSTRUCTION.
5. SHEETING WILL BE REQUIRED AS DETERMINED BY FIELD CONDITIONS.
6. NEW SURFACING MATERIALS SHALL BE CONSISTENT WITH EXISTING AND SHALL HAVE LAPPED & FEATHERED JOINTS (3" MIN. THK.)
7. CONTRACTOR MAY USE FLOWABLE FILL IN LIEU OF RECYCLED CONC. UNDER THE APPROVAL FROM THE CITY ENGINEER OR DESIGNEE.
8. TRENCH WIDTH (TW)= STRUCTURE WIDTH (CENTERED) + 24" (MINIMUM).
9. (B)= EXISTING BASE DEPTH
10. TEMPORARY PATCH MAY BE RECYCLED ASPHALT, FDOT APPROVED COLD PATCH OR APROVED EQUAL.
11. FINAL PATCH TO BE 3" MIN. SP 9.5
12. PATCH SHALL BE TOTAL ROADWAY WIDTH UNLESS DIRECTED BY CITY ENGINEER.

THE CITY OF DAYTONA BEACH
ENGINEERING DIVISION

PAVEMENT CUT & PATCH OVER UTILITY STRUCTURE DETAIL
R-8

Drawing Date: 07/2013 | Drawn By: PRT | Checked By: | Scale: NTS | Revision Date: 07/2013 | File Name: dst-8



NTS

(A) ASPHALT PAVEMENT:
2" MIN. ASPHALT BITUMINOUS CONCRETE TYPE SP-9.5 SEE NOTE 2

(B) BASE:
8" RECYCLED CONCRETE BASE (LBR 130). SEE NOTE 2

ALTERNATE 1:
6" ASPHALT BASE MINIMUM BEARING (LBR 100). SEE NOTE 2

ALTERNATE 2:
8" LIMEROCK BASE (LBR 100). SEE NOTE 2
TO BE USED ONLY WHEN BOTTOM OF BASE LAYER IS 24" ABOVE ANNUAL GROUND WATER MAXIMUM ELEVATION AND UPON APPROVAL OF THE CITY ENGINEER.

(C) SUB-GRADE:
6" SUB-BASE. SEE NOTE 2

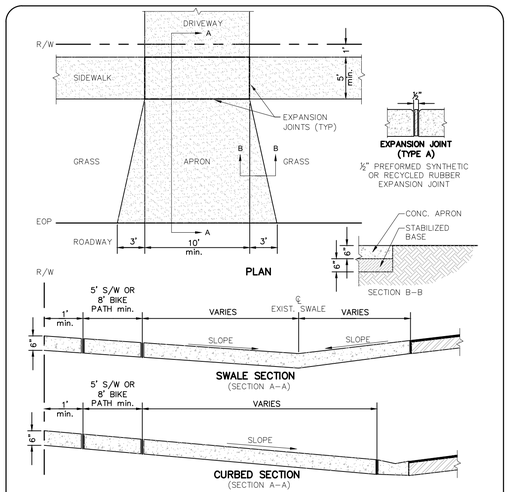
NOTES:
1. ALL MATERIALS ARE TO BE APPROVED BY THE CITY ENGINEER AND THE PROJECT'S LICENSED SOILS ENGINEER PRIOR TO PLACEMENT.
2. ASPHALT PAVEMENT TESTING IS TO BE DONE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, LATEST EDITION.
3.

GRADED AGGREGATE BASE	
SIEVE SIZE	PERCENT BY WEIGHT PASSING
2" (50mm)	100
1-1/2" (37.5mm)	95 to 100
3/4" (19mm)	65 to 95
3/8" (9.5mm)	45 to 75
No.4 (4.75mm)	35 to 60
No.10 (2mm)	25 to 45
No.50 (300um)	5 to 25
No.200 (75um)	0 to 10

THE CITY OF DAYTONA BEACH
ENGINEERING DIVISION

TYPICAL ASPHALT PAVEMENT SECTION DETAIL
R-9

Drawing Date: 06/2006 | Drawn By: PRT | Checked By: | Scale: NTS | Revision Date: 10/2001 | File Name: dst-9



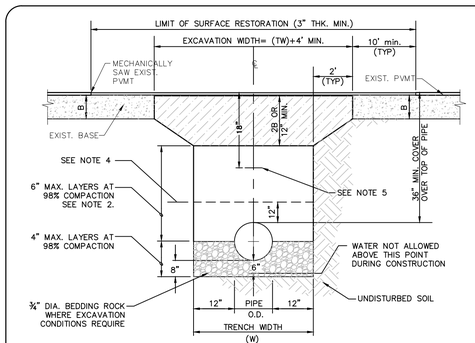
NTS

NOTES:
1. DRIVEWAY APRON SHALL BE CONSTRUCTED OF PLAIN PORTLAND CEMENT CONCRETE WITH A MAXIMUM SLUMP OF 3". A MINIMUM DEVELOPMENT COMPRESSIVE STRENGTH OF 3400 P.S.I. @ 28 DAY.
2. CONCRETE DRIVEWAY APRON WITHIN CITY RIGHT OF WAY SHALL BE MINIMUM UNIFORM THICKNESS OF 6".
3. DRIVEWAY APRON BASE SHALL BE COMPACTED AND TESTED TO 98% DENSITY WITH MINIMUM L.B.R. 40 BASED ON AASHTO T-180 MODIFIED PROCTOR TEST.
4. NO PAVER BRICK TO BE USED WITHIN CITY RIGHT OF WAY.
5. CONCRETE APRON TO HAVE LIGHT BROOM FINISH.

THE CITY OF DAYTONA BEACH
ENGINEERING DIVISION

CONCRETE DRIVEWAY APRON DETAIL
C-8

Drawing Date: 05/2003 | Drawn By: PRT | Checked By: | Scale: NTS | Revision Date: 02/2014 | File Name: dc-8



NTS

NOTES:
1. ALL MATERIALS ARE TO BE APPROVED BY THE CITY ENGINEER AND THE PROJECT'S LICENSED SOILS ENGINEER PRIOR TO PLACEMENT.
2. COMPACTION, STABILITY & DENSITY TESTING ARE TO BE DONE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROADWAY & BRIDGE CONSTRUCTION, LATEST EDITION.
3. WHERE SOIL CONDITIONS CAN NOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE APPROVED METHOD OF CONSTRUCTION.
4. MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL.
5. FOR PVC PIPE ONLY – INSTALL METALLIC TAPE AND UF #12 INSULATED SINGLE STRAND COPPER WIRE OVER FULL LENGTH OF PIPE.
6. SHEETING WILL BE REQUIRED AS DETERMINED BY FIELD CONDITIONS.
7. NEW SURFACING MATERIALS SHALL BE CONSISTENT WITH EXISTING AND SHALL HAVE LAPPED & FEATHERED JOINTS (3" MIN. THK.).
8. CONTRACTOR MAY USE FLOWABLE FILL IN LIEU OF RECYCLED CONC. UNDER THE APPROVAL FROM THE CITY ENGINEER OR DESIGNEE.
9. TRENCH WIDTH (TW)= PIPE OD (CENTERED)+24" (MINIMUM).
10. (B)= EXISTING BASE DEPTH.
11. TEMPORARY PATCH MAY BE RECYCLED ASPHALT, FDOT APPROVED COLD PATCH OR APPROVED EQUAL.
12. FINAL PATCH TO BE 3" MIN. SP 9.5
13. PATCH SHALL BE TOTAL ROADWAY WIDTH.

THE CITY OF DAYTONA BEACH
ENGINEERING DIVISION

PAVEMENT CUT & PATCH OVER PIPE TRENCH DETAIL
R-7

Drawing Date: 05/2003 | Drawn By: PRT | Checked By: | Scale: NTS | Revision Date: 10/2011 | File Name: dst-7

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CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION
(LC 62)
(EB 4516)

NO	DATE	REVISIONS	BY

DERBYSHIRE SIDEWALKS PHASE 2
90% ENGINEERING PLANS
CONSTRUCTION DETAILS

VOLUSIA COUNTY, FL
CITY OF DAYTONA BEACH

PROJECT NO: ZC17045
ISSUE DATE: 03-26-2018
DESIGNED BY: KR
DRAFTED BY: TL
CHECKED BY: BWS

DRAWING FILE: 35-36_17045PH2_DET
XREFS: 17045PH2_BAS.dwg
XREFS: 17045PH2-TIB.dwg

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

SCALE: AS NOTED

SHEET: C30 OF 31

c:\17045 - derbyshire sidewalk phase 2\final engineering plans\ccddwgs\35-36_17045ph2_det.dwg – 8/5/2019 10:40 AM