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CITY OF SUFFOLK
PORTSMOUTH BOULEVARD
SIDEWALK IMPROVEMENTS

FHWA 534 DATA - 43103

PLAN STATUS

DATE	INITIAL	DESCRIPTION
6/8/2018	APF	60% DESIGN SUBMITTAL

SUFFOLK, VA

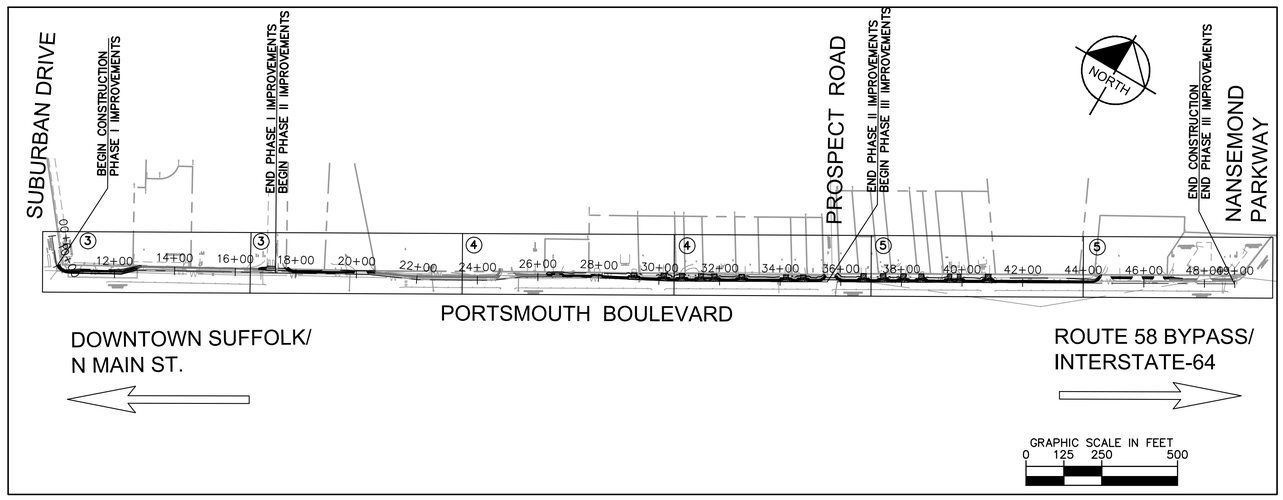
State Project Number: U000-133-522 (UPC 110998) PHASE 1
U000-133-523 (UPC 110999) PHASE 2
U000-133-524 (UPC 111000) PHASE 3

From: SUBURBAN DRIVE/PORTSMOUTH BLVD INTERSECTION
To: NANSEMOND PARKWAY/PORTSMOUTH BLVD INTERSECTION

NOT FOR CONSTRUCTION

ROADWAY DESIGN CRITERIA

PORTSMOUTH BOULEVARD: DESIGN SPEED = 45 MPH



SHEET LAYOUT

UTILITY AND GOVERNING AGENCIES CONTACT LIST

GAS
VIRGINIA NATURAL GAS
544 S. INDEPENDENCE BLVD.
VIRGINIA BEACH, VIRGINIA 23452
(757) 616-7529
CONTACT: KEVIN STARKE

ELECTRIC
DOMINION ENERGY
(252) 331-6148
CONTACT: BOBBY WOOD

TELEPHONE/COMMUNICATIONS
VERIZON
2920 ELMHURST LANE
2ND FLOOR
PORTSMOUTH, VIRGINIA 23701
(757) 663-6721
CONTACT: JIM FULTON

PUBLIC UTILITIES
CITY OF SUFFOLK
442 W. WASHINGTON STREET
SUFFOLK, VIRGINIA 23434
(757) 514-7029
CONTACT: DEAN ADAMS

PUBLIC WORKS
CITY OF SUFFOLK
442 W. WASHINGTON STREET
SUFFOLK, VIRGINIA 23434
(757) 514-7703
CONTACT: SHERRY EARLEY

MISS UTILITY *
MISS UTILITY OF VIRGINIA
204 RIVERS BEND BOULEVARD
CHESTER, VIRGINIA 23831
CONTACT NUMBER: 811

* CONTRACTOR TO NOTIFY MISS UTILITY 72 HOURS PRIOR TO ANY EXCAVATION, AS REQUIRED BY LAW.

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S 2016 ROAD AND BRIDGE SPECIFICATIONS, 2016 ROAD AND BRIDGE STANDARDS, 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION MANUAL AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY.

SURVEYOR:
PRECISION MEASUREMENTS, INC.
629 PHOENIX DRIVE
VIRGINIA BEACH, VIRGINIA 23452
TEL. (757) 368-0945
FAX (757) 368-9375

CONTACT: RICK THOMAS, LS

811 Know what's below. Call before you dig.

ENGINEER:
KIMLEY-HORN AND ASSOCIATES, INC.
4525 MAIN STREET
SUITE 1000
VIRGINIA BEACH, VIRGINIA 23462
TEL. (757) 213-8600
FAX (757) 213-8601

CONTACT: ANDREW FARTHING, P.E.

TIER 1 PROJECT

LOCALLY ADMINISTERED PROJECTS

CITY OF SUFFOLK
NAME OF LOCALITY

(SIGNATURE)
NAME OF RESPONSIBLE LOCAL GOVERNMENT OFFICAL (TYPED)
RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION
DATE | TITLE OF POSITION

(SIGNATURE)
NAME OF RESPONSIBLE LOCAL GOVERNMENT OFFICAL (TYPED)
RECOMMENDED FOR APPROVAL FOR CONSTRUCTION
DATE | TITLE OF POSITION

RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION
DATE | DISTRICT PLANNING AND INVESTMENT MANAGER
DATE | DISTRICT PROJECT DEVELOPMENT ENGINEER

APPROVED FOR RIGHT OF WAY ACQUISITION
DATE | DISTRICT ENGINEER/ADMINISTRATOR

RECOMMENDED FOR APPROVAL FOR CONSTRUCTION
DATE | DISTRICT PLANNING AND INVESTMENT MANAGER
DATE | DISTRICT PROJECT DEVELOPMENT ENGINEER

APPROVED FOR CONSTRUCTION
DATE | DISTRICT ENGINEER/ADMINISTRATOR

No.	REVISIONS	DATE	BY

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LICENSED PROFESSIONAL

60% DESIGN

DATE:

KHA PROJECT 117019046
DATE 06/08/2018
SCALE AS SHOWN
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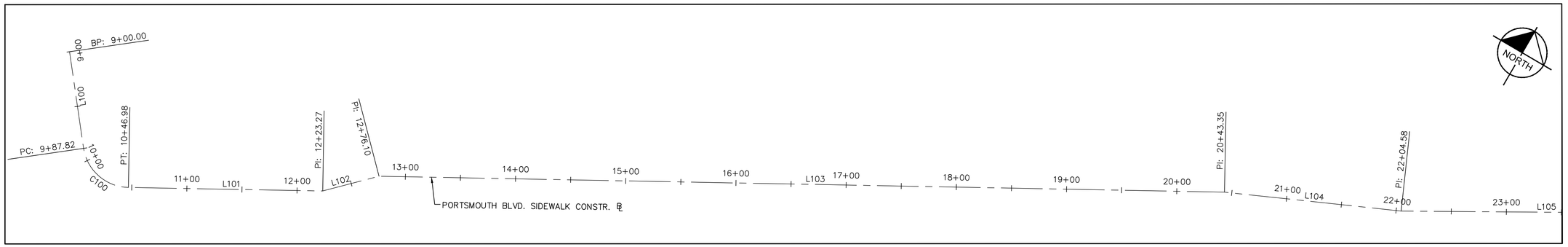
DRAWN BY KMP
CHECKED BY WFM

TITLE SHEET

PORTSMOUTH BOULEVARD SIDEWALK IMPROVEMENTS
PREPARED FOR SUFFOLK
SUFFOLK VIRGINIA

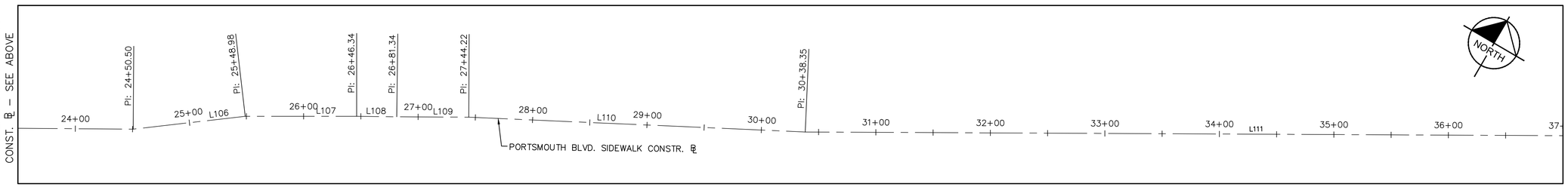
SHEET NUMBER
1

ALIGNMENT DATA



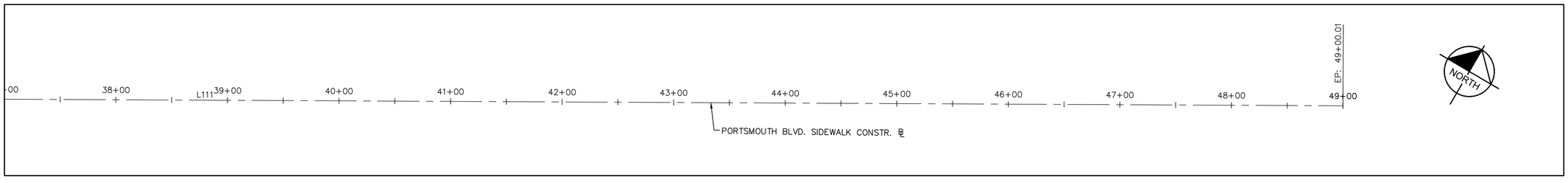
MATCHLINE STATION 23+50 CONST. ℄ – SEE BELOW

MATCHLINE STATION 23+50 CONST. ℄ – SEE ABOVE



MATCHLINE STATION 37+00 CONST. ℄ – SEE BELOW

MATCHLINE STATION 37+00 CONST. ℄ – SEE ABOVE



ALIGNMENT PORTSMOUTH BLVD LAYOUT DATA

NO.	BEGIN STATION	BEGIN NORTHING	BEGIN EASTING	LENGTH	END STATION	END NORTHING	END EASTING	TANGENT BEARING	CHORD BEARING	CHORD LENGTH	PI STATION	DELTA	TANGENT	RADIUS	D
L100	9+00.00	3435713.2913	12053278.4518	87.82'	9+87.82	3435638.1394	12053323.8836	S31° 09' 15.73"E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
C100	9+87.82	3435638.1394	12053323.8836	59.16'	10+46.98	3435620.8877	12053375.4640	N/A	S71° 30' 24.72"E	54.39'	10+23.50	△ 80.7050	35.68	42	0.0000
L101	10+46.98	3435620.8877	12053375.4640	176.29'	12+23.27	3435686.5268	12053539.0817	N68° 08' 26.30"E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
L102	12+23.27	3435686.5268	12053539.0817	52.83'	12+76.10	3435718.7040	12053580.9825	N52° 28' 40.74"E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
L103	12+76.10	3435718.7040	12053580.9825	767.25'	20+43.35	3436003.8910	12054293.2660	N68° 10' 46.64"E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
L104	20+43.35	3436003.8910	12054293.2660	161.22'	22+04.58	3436050.4700	12054447.6120	N73° 12' 25.48"E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
L105	22+04.58	3436050.4700	12054447.6120	245.93'	24+50.50	3436144.4190	12054674.8860	N67° 32' 27.98"E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
L106	24+50.50	3436144.4190	12054674.8860	98.47'	25+48.98	3436192.8380	12054760.6337	N60° 32' 52.72"E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
L107	25+48.98	3436192.8380	12054760.6337	97.36'	26+46.34	3436230.7220	12054850.3256	N67° 06' 06.37"E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
L108	26+46.34	3436230.7220	12054850.3256	35.00'	26+81.34	3436243.9368	12054882.7349	N67° 49' 01.16"E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
L109	26+81.34	3436243.9368	12054882.7349	62.88'	27+44.22	3436268.1010	12054940.7840	N67° 23' 58.00"E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
L110	27+44.22	3436268.1010	12054940.7840	294.13'	30+38.35	3436370.4895	12055216.5226	N69° 37' 43.71"E	N/A	N/A	N/A	N/A	N/A	N/A	N/A
L111	30+38.35	3436370.4895	12055216.5226	1861.66'	49+00.01	3437086.3598	12056935.0399	N67° 23' 06.74"E	N/A	N/A	N/A	N/A	N/A	N/A	N/A

GRAPHIC SCALE IN FEET
0 25 50 100

NO.	REVISIONS	DATE	BY

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LICENSED PROFESSIONAL

DATE:

KHA PROJECT 117019046	DESIGNED BY APF
DATE 06/08/2018	DRAWN BY KMP
SCALE AS SHOWN	CHECKED BY WFM

ALIGNMENT DATA

PORTSMOUTH BOULEVARD SIDEWALK IMPROVEMENTS
PREPARED FOR
SUFFOLK
VIRGINIA
SUFFOLK

SHEET NUMBER
1A

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RIGHT-OF-WAY DATA

PARCEL NO.	LANDOWNER	SHEET NO.	AREA								
			TOTAL	FEE TAKING	FEE REMAINDER	EASEMENTS					
						PERMANENT	DRAINAGE	PERM. SLOPE	TEMP. ENTRANCE	TEMP. CONST.	PROFFERS
			ACRES	ACRES	ACRES	ACRES	ACRES	ACRES	ACRES	ACRES	YES/NO
001	6539C EAST VIRGINIA BEACH BLVD., LLC	3A		0.000		0	0	0	0	0.004	NO
002	FOOD LION, LLC.	3A		0.000		0.005	0	0	0	0	NO
003	58 SUBURBAN, LLC	3A		0.000		0.004	0	0	0	0	NO
004	ANAR, LLC	3A		0.000		0	0.020	0	0	0.009	NO
005	CIVEL I. MAYFIELD ESTATE	4A		0.000		0	0.028	0	0	0	NO
006	ANDRE C. AND JANICE D. SMITH	4A		0.000		0	0.005	0	0	0	NO
007	CHARLES B. LAWRENCE	4A		0.000		0	0.002	0	0	0	NO

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RIGHT OF WAY DATA

PORTSMOUTH BOULEVARD SIDEWALK IMPROVEMENTS
PREPARED FOR SUFFOLK
SUFFOLK VIRGINIA

SHEET NUMBER
1B

LINE AND SYMBOL LEGEND

TRHH	TRHH	TRAFFIC HAND HOLE
EHH	EHH	ELECTRIC HAND HOLE
☼	L/P	LIGHT POLE
		TRAFFIC LIGHT POLE
	GUY	GUY WIRE
Ⓢ	SMH	SEWER MANHOLE
	SCO	SEWER CLEANOUT
		FLAG POLE
	MB/PB	MAIL BOX/PAPER BOX
		SIGN
Ⓓ	SDMH	STORM DRAIN MANHOLE
	CDI	CURB DROP INLET
■	DI	DROP INLET
	P/P	POWER POLE
	TBM	TEMPORARY BENCHMARK
	L/P	LIGHT POLE WITH MAST
T	TPED	TELEPHONE PEDESTAL
		TREE
		SHRUB
		SAPLING
		CITY DISK
		TRAVERSE POINT
	WM	WATER METER
	WV	WATER VALVE
	FH	FIRE HYDRANT
	SFMV	SEWER FORCE MAIN VALVE
	GV	GAS VALVE
		SANITARY SEWER LINE
		BUILDING
X		FENCE
		STORM PIPE
/		OVERHEAD LINES
		UNDERGROUND ELECTRIC
		UNDERGROUND FIBER OPTIC
		UNDERGROUND GAS
		UNDERGROUND COMMUNICATIONS
		UNDERGROUND WATER
TR		UNDERGROUND TRAFFIC
CTV		UNDERGROUND CABLE TV
		ASPHALT
		RIPRAP
EBOX		ELECTRIC BOX
WVAULT		WATER VAULT
TRCAB		TRAFFIC CABINET
24"C&G		SIZE/CURB & GUTTER
6"CC		SIZE/CONCRETE CURB
PVC		POLYVINYL CHLORIDE
CLF		CHAIN LINK FENCE
DI		DUCTILE IRON PIPE
STL		STEEL
CI		CAST IRON
(QL-C)		QUALITY LEVEL C
PL		PLASTIC PIPE

TOPOGRAPHIC SURVEY PORTSMOUTH BOULEVARD SIDEWALK IMPROVEMENTS
SUFFOLK, VIRGINIA
SCALE: 1"=25'
PMI PROJECT #17-470

SURVEY & UTILITY NOTES:

1. THE MERIDIAN SOURCE OF THIS TOPOGRAPHIC SURVEY IS BASED ON THE CITY OF SUFFOLK GEODETIC CONTROL NETWORK, VIRGINIA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM 1983(1994HARN). COORDINATE VALUES SHOWN ARE EXPRESSED IN U.S. SURVEY FEET.
2. ELEVATIONS REFER TO NAVD88 AND WERE ESTABLISHED USING DIFFERENTIAL LEVELING METHODS INITIATED AT CITY OF SUFFOLK CONTROL DISK #136, ELEVATION = 23.0.
3. THIS SURVEY WAS PREPARED TO SHOW EXISTING FEATURES AS OF 3/7/2018 AND DOES NOT CERTIFY TO CHANGES TO SITE CONDITIONS WHICH OCCUR SUBSEQUENT TO THIS DATE AND OR TO PROPOSED IMPROVEMENTS.
4. THIS SURVEY DOES NOT CONSTITUTE A BOUNDARY SURVEY NOR A SUBDIVISION OF LAND.
5. PROPERTY AND RIGHT-OF-WAY LINES WERE ESTABLISHED USING A COMPILATION OF DEEDS OF RECORD, PLATS OF RECORD AND EXISTING FIELD MEASUREMENTS.
6. THIS SURVEY DOES NOT INTEND TO DEPICT ANY WETLANDS, HAZARDOUS WASTE AND ENVIRONMENTAL FEATURES THAT MAY AFFECT SAID PROPERTY EXCEPT AS SHOWN.
7. PIPE MATERIAL TYPES ARE DETERMINED BY FIELD OBSERVATIONS TO THE BEST OF OUR ABILITY. PMI DOES NOT WARRANT THE MATERIAL TYPE OF PIPES LOCATED IN CONFINED OR INACCESSIBLE SPACES.
8. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN DESIGNATED BY PMI USING QUALITY LEVEL B STANDARDS AND WILL BE INCORPORATED AS PART OF THIS SURVEY. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR FURTHER NOTIFIES ALL PARTIES THAT VIRGINIA LAW REQUIRES "VA811" TO BE CONTACTED PRIOR TO ANY EXCAVATION. UTILITY SIZE AND MATERIAL ARE SHOWN FROM RECORD AND HAVE NOT BEEN VERIFIED. ANY UTILITY LABELED (QL-C) IS FROM RECORD ONLY AND IS AN APPROXIMATE LOCATION.
9. THE TOPOGRAPHY AND PHYSICAL FEATURES SHOWN ON THIS MAP WERE OBTAINED UNDER THE DIRECT AND RESPONSIBLE CHARGE AND SUPERVISION OF IVAN R. LINEBERRY, LS. THIS PLAT, MAP, OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
10. THIS TOPOGRAPHIC SURVEY WAS PREPARED/COMPILED BY:

PRECISION MEASUREMENTS, INC.
SURVEYORS – GPS – GIS – MAPPING – 3-D LASER SCANNING
629 PHOENIX DRIVE, SUITE 100
VIRGINIA BEACH, VA. 23452
(757) 368-0945
WWW.PRECISIONMEASUREMENTS.COM
VIRGINIA BEACH – NEWPORT NEWS – RICHMOND, VIRGINIA

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KHA PROJECT 117019046
DATE 06/08/2018
SCALE AS SHOWN
DESIGNED BY APF
DRAWN BY KMP
CHECKED BY WFM

SURVEY NOTES

PORTSMOUTH BOULEVARD SIDEWALK IMPROVEMENTS
PREPARED FOR SUFFOLK
SUFFOLK VIRGINIA

SHEET NUMBER
1C

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CITY OF SUFFOLK NOTES

GENERAL NOTES

1. THE CONTRACTOR SHALL REMOVE ALL REMOVED/DEMOLISHED MATERIAL FROM THE PROJECT SITE AND DISPOSE OF THE SAME IN A LEGAL MANNER AND/OR DELIVER TO THE CITY THOSE ITEMS SO DESIGNATED.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL, REPLACEMENT, AND TEMPORARY RELOCATION OF EXISTING SIGNS UNLESS OTHERWISE INDICATED.

3. UNFORESEEN EXISTING ABANDONED STRUCTURES OR UTILITY LINES THAT ARE ENCOUNTERED DURING CONSTRUCTION SHALL NOT BE REMOVED WITHOUT AUTHORIZATION FROM THE CITY OR THE UTILITY OWNER.

4. AREAS OUTSIDE THE LIMITS OF THE PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITIONS AT THE CONTRACTOR'S EXPENSE. ALL AREAS DISTURBED DURING CONSTRUCTION NOT COVERED WITH BUILDINGS, STRUCTURES, OR PAVEMENTS, SHALL BE TOPSOILED AND SEEDED AS REQUIRED BY THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (VESCH).

5. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE PLANS AND SPECIFICATIONS AND TO ALL CURRENT APPLICABLE CODES AS WELL AS:
   - CITY OF SUFFOLK PUBLIC WORKS PUBLIC FACILITIES MANUAL (2014 EDITION)
   - CITY OF SUFFOLK PUBLIC UTILITIES PUBLIC FACILITIES MANUAL (2016 EDITION)
   - VDOT ROAD AND BRIDGE STANDARDS (2016 EDITION)
   - VDOT ROAD AND BRIDGE SPECIFICATIONS (2016 EDITION)
   - FHWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2009 EDITION)
   - VIRGINIA SUPPLEMENT TO THE MUTCD (2011 EDITION)
   - VIRGINIA WORK AREA PROTECTION MANUAL (2011 EDITION)
   - VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (1992 EDITION)

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT HIS OWN EXPENSE, ANY EXISTING UTILITIES, PAVEMENT, CONCRETE ITEMS, PIPES, LANDSCAPING, AND OTHER ITEMS THAT ARE DAMAGED DURING CONSTRUCTION.

7. PRIOR TO CONSTRUCTION OR EXCAVATION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND AND OVERHEAD UTILITIES (PUBLIC OR PRIVATE) THAT MAY EXIST AND CROSS THROUGH THE AREA OF CONSTRUCTION. A MINIMUM OF 72 HOURS PRIOR TO EXCAVATING, MISS UTILITY OF VIRGINIA (811) MUST BE CONTACTED.

CLEARING & DEMOLITION

1. THE CONTRACTOR SHALL PERFORM CLEARING ACTIVITIES AS NOTED AND SHOWN ON THESE PLANS.

2. INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES AND TREE PROTECTION PRIOR TO BEGINNING CLEARING AND EXCAVATION WORK.

3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO AVOID UNNECESSARY DAMAGE TO EXISTING ROAD SURFACES.

4. ALL EXISTING ITEMS TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE EXPENSE OF THE CONTRACTOR.

5. ALL CLEARING, GRUBBING, AND GRADING SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT VDOT SPECIFICATIONS AND STANDARDS.

DRAINAGE

1. ALL STORM SEWER PIPES, DROP INLETS AND CURB INLETS SHALL BE CLEANED OF DEBRIS AND ERODED MATERIALS AT THE LAST STAGES OF CONSTRUCTION, THE COST OF WHICH SHALL BE INCIDENTAL TO OTHER ITEMS.

2. STORM SEWER PIPES AS SHOWN ON THE PLANS ARE MEASURED FROM THE CENTERLINE OF EACH STRUCTURE AND INVERT ELEVATIONS ARE ESTABLISHED BASED ON THIS CENTER LINE DISTANCE. LENGTH CALL OUTS FOR PIPES WITH FLARED END SECTIONS WILL BE MEASURED TO THE END OF THE END SECTION. CONTRACTOR SHALL LOCATE ALL END SECTIONS TO MATCH THE BANK SLOPE AND THE ACTUAL PIPE LENGTH SHALL BE ADJUSTED AS NECESSARY.

3. ALL DROP INLETS SHALL HAVE VDOT STD. IS-1 SHAPING.

4. POSITIVE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES.

5. PRE-CAST STRUCTURES SHALL BE BUILT AND ASSEMBLED IN ACCORDANCE WITH VDOT STANDARD 103.01 AND .02 AND OTHER APPLICABLE STANDARDS.

6. TEMPORARY DRAINAGE DURING CONSTRUCTION TO BE PROVIDED BY THE CONTRACTOR TO RELIEVE AND PREVENT FLOODING IN AREAS THAT MAY CAUSE DAMAGE TO ROADWAYS OR ADJACENT PROPERTIES.

UTILITIES

1. THIS PLAN DOES NOT GUARANTEE THE EXISTENCE, NON-EXISTENCE, SIZE, TYPE, LOCATION, ALIGNMENT OR DEPTH OF ANY OR ALL UNDERGROUND UTILITIES OR OTHER FACILITIES. WHERE SURFACE FEATURES (MANHOLES, CATCH BASINS, VALVES, ETC.) ARE UNAVAILABLE OR INCONCLUSIVE, INFORMATION SHOWN MAY BE FROM UTILITY OWNER RECORDS AND/OR ELECTRONIC LINE TRACING, THE RELIABILITY OF WHICH IS UNCERTAIN. THE CONTRACTOR SHALL PERFORM WHATEVER TEST EXCAVATION OR OTHER INVESTIGATION IS NECESSARY TO VERIFY TIE-IN INVERTS, LOCATIONS AND CLEARANCES, AND SHALL REPORT IMMEDIATELY ANY DISCREPANCIES TO KIMLEY-HORN AND ASSOCIATES, INC. AT 213-8600. UTILITY COMPANIES SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF ANY EXCAVATION IN THE PROXIMITY OF THEIR UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AT HIS EXPENSE ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.

2. CONTRACTOR SHALL CONFORM TO THE "OVERHEAD HIGH VOLTAGE ACT" (EFFECTIVE JULY 1, 1989) AND SHALL CONTACT THE NECESSARY AUTHORITIES PRIOR TO START OF CONSTRUCTION.

3. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN IN PLACE.

4. ALL CONSTRUCTION METHODS & MATERIALS SHALL BE IN COMPLIANCE WITH THE LATEST VERSION OF THE PUBLIC FACILITIES MANUAL, VOLUME II, WHICH IS AVAILABLE ON THE CITY WEBSITE.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WITH MATCHING MATERIALS ANY PAVEMENT, DRIVEWAYS, WALKS, CURBS, ETC., THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION.

6. THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE BELOW PLAN GRADE ANY MATERIALS WHICH ARE UNSUITABLE FOR FOUNDATIONS, SUB GRADES, PIPE TRENCH BOTTOMS OR OTHER PURPOSES AND BACKFILL THESE AREAS WITH AN APPROVED MATERIAL. THE EXTENT OF UNDERCUTTING AND BACKFILLING SHALL BE DETERMINED BY THE CITY AS TO AREAS WITHIN STREET RIGHT-OF-WAY AND THE ENGINEER IN OTHER AREAS. COMPENSATION SHALL BE AS SET FORTH IN THE CONTRACT DOCUMENTS.

7. SUB-SURFACE UTILITY WARNING TAPE AS MANUFACTURED BY THE GRIFFOLYN COMPANY, OR EQUAL, SHALL BE PLACED AT AN ELEVATION NOT LESS THAN 6-INCHES NOR MORE THAN 12-INCHES BELOW THE PROPOSED FINISHED GRADE ABOVE NON-CONDUCTIVE SEWER, WATER AND SEWER FORCE MAINS IN PUBLIC RIGHTS-OF-WAY OR EASEMENTS. THE TAPE SHALL BE OF A DURABLE, METALIZED, PLASTIC FILM SIMILAR TO "TERRA-TAPE D" FOR IDENTIFICATION BY ELECTRONIC PIPE LOCATING DEVICE AS WELL AS VISUAL IDENTIFICATION. THE TAPE FOR SEWER FORCE MAIN LINE SHALL BE BRIGHT GREEN WITH THE FOLLOWING IMPRINTED LEGEND "CAUTION-SEWER LINE BELOW". THE TAPE FOR WATERLINES SHALL BE BRIGHT BLUE WITH THE FOLLOWING IMPRINTED LEGEND "CAUTION-WATER LINE BELOW." IN ADDITION TO THE DETECTABLE TAPE, 12 GAGE COPPER WIRE SHALL BE INSTALLED ALONG THE PIPE FOR PURPOSES OR POSITIVE IDENTIFICATION AND LOCATION, AS REQUIRED BY THE DEPARTMENT OF PUBLIC UTILITIES.

8. SEE LATEST VERSION OF THE CITY OF SUFFOLK PUBLIC FACILITIES MANUAL, VOLUME II FOR PROPER SEPARATION OF WATER AND SEWER LINES.

UTILITIES (CONTINUED)

9. WATER MAIN SERVICE PIPE.

ALL WATER AND SANITARY SEWER WORK SHALL CONFORM TO LATEST VERSION OF THE PUBLIC FACILITIES MANUAL VOLUME II.

A. DUCTILE IRON PIPE. DUCTILE IRON PIPE SHALL BE CENTRIFUGAL CAST PIPE MANUFACTURED IN ACCORDANCE WITH ANSI SPECIFICATIONS A21.51. DUCTILE IRON PIPE SHALL BE CEMENT-MORTAR LINED INSIDE IN ACCORDANCE WITH ANSI SPECIFICATIONS A21.4-74. CEMENT FOR THE MORTAR SHALL BE TYPE II PORTLAND CEMENT. THE STANDARD SEAL COAT OF BITUMINOUS MATERIAL SHALL BE APPLIED TO THE EXTERIOR OF THE PIPE. DUCTILE IRON PIPE SHALL BE CLASS 50.

B. JOINTS FOR DUCTILE IRON PIPE SHALL BE ONE OF THE FOLLOWING:

(1) RUBBER GASKET (PUSH-ON) TYPE JOINT. RUBBER GASKET TYPE JOINTS SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI SPECIFICATIONS A21.11-72 AND DESIGNED TO LOCK AGAINST DISPLACEMENT WITHOUT CAULKING. THE GASKET SHALL BE A RESILIENT RUBBER OF HEAVY SECTION, HIGH DUROMETER, AND SINGLE MOLDED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS. THE GASKET LUBRICANT SHALL BE A NON-TOXIC, TASTELESS, ODORLESS GREASE THAT WILL NOT SUPPORT BACTERIA. EACH GASKET LUBRICANT CONTAINER SHALL BE LABELED WITH THE TRADE NAME AND THE PIPE MANUFACTURER'S NAME.

(2) MECHANICAL JOINT. STANDARD MECHANICAL JOINTS SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI SPECIFICATIONS A21.11-72 (AWWA SPECIFICATIONS C111-72). THE MECHANICAL JOINT BOLTS SHALL BE A U.S. STANDARD SIZE, HIGH STRENGTH, CORROSION RESISTANT STEEL ALLOY WITH HEXAGON NUTS.

MECHANICAL JOINTS SHALL BE USED FOR THE CONNECTION OF ALL FITTINGS, VALVES, AND HYDRANTS.

FITTINGS SHALL BE MANUFACTURED DUCTILE IRON AND SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI SPECIFICATIONS A21.10-71 (AWWA SPECIFICATIONS C110-71). FITTINGS SHALL BE COMPATIBLE WITH THE PIPE AND SHALL PROVIDE AT LEAST EQUAL RESISTANCE TO INTERNAL AND EXTERNAL LOADS ON THE PIPE, FITTINGS SHALL BE BITUMINOUS COATED ON THE OUTSIDE AND CEMENT MORTAR LINED ON THE INSIDE ACCORDING TO AWWA SPECIFICATIONS A21.4-74 (ANSI SPECIFICATIONS C104-74).

IN LIEU OF THE FITTINGS SPECIFIED ABOVE, AWWA C-153 CLASS 350 DUCTILE IRON COMPACT FITTINGS MAY BE SUBSTITUTED.

C. AWWA POLYVINYL-CHLORIDE PIPE. PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA SPECIFICATIONS C900-81 TO DUCTILE IRON PIPE OUTSIDE DIAMETER DIMENSIONS AND BE APPROVED BY UNDERWRITERS LABORATORIES. CLASS 150 PIPE SHALL MEET THE REQUIREMENTS OF DR 18. JOINTS SHALL CONSIST OF AN INTEGRAL WALL SECTION WITH SOLID CROSS SECTION RUBBER GASKET CONFORMING TO ASTM DESIGNATION D-1869. PIPE SHALL BE CLEARLY MARKED TO SHOW CLASS, SIZE, MANUFACTURER'S NAME. FITTINGS FOR POLYVINYL-CHLORIDE PIPE SHALL BE MANUFACTURED OF CAST OR DUCTILE IRON.

10. GATE VALVES TWO INCHES AND SMALLER SHALL BE INSIDE SCREW, SOLID BRONZE, TAPERED SEAT, AND DOUBLE DISC CONSTRUCTION FOR 250 PSI WORKING PRESSURE. THE VALVES SHALL BE SUITABLE FOR THE SERVICE REQUIRED. LARGER GATE VALVES SHALL CONFORM TO AWWA SPECIFICATION C509 AND SHALL BE IRON BODY, BRONZE MOUNTED, NON-RISING STEM WITH AN OIL RESERVOIR ENCLOSED BETWEEN TWO "O" RINGS, ONE BELOW AND ONE ABOVE THE THRUST COLLAR ON THE OPERATING STEM. GATE VALVES SHALL BE RESILIENT SEATED WEDGE STYLE AND SHALL BE UL AND FM APPROVED, WITH TOTALLY ENCAPSULATED WEDGE, AND SHALL BE KENNEDY 8000 SERIES, M&H VALVE CO. RS SERIES, MUELLER 2360 SERIES, US PIPE MODEL A-USPO, OR APPROVED EQUAL. GATE VALVES SHALL BE FOR USE WITH DUCTILE IRON OR PVC PIPE OR ON FIRE HYDRANT SETTINGS AND SHALL HAVE AWWA C111 MECHANICAL JOINTS. GATE VALVES SHALL BE NUT OPERATED AND SHALL OPEN LEFT.

11. FIRE HYDRANTS SHALL BE KENNEDY K81A, MUELLER A421 OR APPROVED EQUAL. PAINTED WITH ONE COAT ZINC CHROMATE PRIMER, 2 FINISH COATS OF CITY APPR. ALLUM.

12. WATER MAINS SHALL HAVE A MINIMUM COVER OF 36", UNLESS OTHERWISE NOTED ON THE PLANS.

13. THE METHOD OF THRUST RESTRAINT REQUIRED FOR ALL BENDS, TEES, OFFSETS, OR PLUGGED ENDS FOR WATER LINES OR FORCE MAINS ARE THE USE OF MEGA-LUG RETAINER GLANDS (OR APPROVED EQUAL) OR LOCKING RESTRAINED JOINT PIPE. VALVES SHALL BE RESTRAINED IN BOTH DIRECTIONS AS A DEAD END.

14. WATER SERVICE LINES TO BE INSTALLED AS SHOWN, TO ELIMINATE NEED FOR PAVEMENT PATCHING WHEN BUILDING CONNECTION IS MADE.

15. FOR LINES LAID ON CURVES, DEFLECTIONS AT JOINTS SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS.

16. CONTRACTOR SHALL NOTIFY THE CITY OF SUFFOLK DEPARTMENT OF PUBLIC UTILITIES AT (757) 514-7029 AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK ANY SEWER OR WATER MAIN INSTALLATION.

17. HYDRANTS SHALL BE PRECEDED IN LINE BY AN APPROVED VALVE AND VALVE BOX. THE HYDRANTS SHALL HAVE AN EIGHT INCH MECHANICAL JOINT INLET AND MAIN VALVE OPENING OF 5-½ INCHES MINIMUM. HYDRANTS SHALL BE EQUIPPED WITH TWO 2-½ INCH HOSE CONNECTIONS AND ONE 4-½ INCH PUMPER CONNECTION WITH NATIONAL STANDARD THREADS. HOSE NIPPLES SHALL BE BRONZE OR NON-CORROSIVE METAL AND THE NIPPLE CAPS SHALL BE SECURELY CHAINED TO THE BARREL. THE DIRECTION OF OPENING SHALL BE LEFT AND BE CAST ON THE HEAD OF THE HYDRANT.

18. ALL SERVICES SHALL BE METERED FOR THE INDICATION OF WATER CONSUMPTION IN CUBIC FEET. EACH WATER METER INSTALLATION SHALL INCLUDE TAP, CORPORATION STOP, METER BOX, COPPER SETTER AND METER. THE REGISTER SHALL HAVE STRAIGHT READING DIALS AND SHALL BE COMPLETELY ENCASED, HERMETICALLY SEALED, AND OF A FROST-PROTECTIVE DESIGN. EACH METER SHALL HAVE AN ARROW ON IT TO INDICATE THE DIRECTION OF FLOW AND SHALL HAVE THE MANUFACTURER'S SERIAL NUMBER STAMPED ON THE REGISTER LID. METERS SHALL BE SENSUS TECHNOLOGIES, INC. WITH TOUCHREAD PIT LID REGISTER AND REMOTE MODULE. METERS SHALL CONFORM TO AWWA C-700 AND C707, LATEST EDITION. INDIVIDUAL METER SHALL BE PROVIDED TO THE DEPARTMENT OF PUBLIC UTILITIES AT THE CONTRACTOR'S EXPENSE.

19. THE CONTRACTOR WILL BE RESPONSIBLE FOR GRADE AND CONDITION OF THE WATER AND SEWER SETTINGS UNTIL ISSUANCE OF OCCUPANCY PERMITS.

20. BACKFILL MATERIAL SHALL BE PLACED EVENLY AND CAREFULLY AROUND THE PIPE AND SHALL BE SOLIDLY HAND TAMPED IN 6 INCH LAYERS UP TO A LEVEL OF AT LEAST ONE FOOT ABOVE THE TOP OF THE PIPE. THE REMAINDER OF THE TRENCH SHALL BE BACKFILLED AND COMPACTED BY MECHANICAL TAMPERS AND SHALL ACHIEVE A DENSITY OF AT LEAST 95 PERCENT OF THE MAXIMUM DENSITY OR AS SPECIFIED IN SECTION 303 OF THE 2016 VDOT ROAD AND BRIDGE SPECIFICATIONS.

21. LOCKING FIRE DEPARTMENT CONNECTION CAPS SHALL BE REQUIRED ON WATER BASED FIRE PROTECTION SYSTEMS.

22. THE CONTRACTOR SHALL ENSURE THAT ALL EASEMENTS AND/OR FEE SIMPLE LANDS FOR PUBLIC UTILITIES ARE DEDICATED TO THE CITY OF SUFFOLK AND PROPERLY PLATTED AND RECORDED. THE RECORDATION OF EASEMENTS OR FEE SIMPLE LAND APPLIES TO ALL WATER AND SEWER MAINS, FIRE HYDRANTS, DETECTOR CHECKS, METERS, SERVICE CLEANOUTS, AND ANY OTHER PUBLIC WATER AND SEWER INFRASTRUCTURE WHICH IS IDENTIFIED ON THE APPROVED SITE/SUBDIVISION/ ENGINEERING PLAN AS INTENDING TO BE DEDICATED TO THE CITY OF SUFFOLK. EASEMENT OR LAND RECORDING SHALL BE ACCOMPLISHED THROUGH THE FINAL SUBDIVISION PLATTING PROCESS AS PART OF THE CITY'S UNIFIED DEVELOPMENT ORDINANCE PROCESS. ALTERNATIVELY AND WHEN THE WATER AND SEWER SYSTEM IS INTENDED TO BE ACCEPTED BY THE CITY AND BECOME OPERATIONAL PRIOR TO FINAL PLATTING, UTILITY EASEMENTS OR FEE SIMPLE LANDS ARE TO BE PROVIDED BY SEPARATE PLATS IN ACCORDANCE WITH THE DEPARTMENT OF PUBLIC UTILITIES REQUIREMENTS. IN THESE CASES, THE PLAT SHALL BE SUBMITTED DIRECTLY TO THE DEPARTMENT OF PUBLIC UTILITIES ENGINEERING DIVISION FOR REVIEW AND APPROVAL. THE DEPARTMENT OF PUBLIC UTILITIES WILL PROVIDE THE OWNER WITH SAMPLE LANGUAGE FOR THE LEGAL DESCRIPTION. CERTIFICATE OF OCCUPANCY, UTILITY CONNECTIONS AND/OR ACCEPTANCE OF THE UTILITY SYSTEM BY THE CITY MAY PROCEED UPON EVIDENCE OF APPROPRIATE RECORDATION.

23. SEWER INFRASTRUCTURE IS DESIGNED IN ACCORDANCE WITH THE HAMPTON ROADS REGIONAL TECHNICAL STANDARDS, PURSUANT TO THE REGIONAL CONSENT ORDER OF SEPTEMBER 2007.

24. SEWER MAIN SERVICE PIPE:
   A. THE SEWER FORCE MAIN SHALL BE DUCTILE IRON (D.I.) PIPE CAPABLE OF 150 PSI WORKING PRESSURE. ALL FITTINGS SHALL BE DUCTILE IRON PIPE.

   B. EXCEPT WHERE OTHERWISE NOTED, WATER AND SEWER FORCE MAINS SHALL BE LAID WITH A MINIMUM COVER OF 36 INCHES.

   C. FOR DUCTILE IRON PIPE, USE SPECIAL CLASS 50 MINIMUM WALL THICKNESS. FLANGED JOINTS, IF USED, SHALL BE CLASS 125 PER ANSI B16.1. STANDARD FITTINGS IN ACCORDANCE WITH AWWA C110 ARE PREFERRED. APPROVAL FOR THE USE OF FITTINGS MANUFACTURED IN ACCORDANCE WITH AWWA C-153 SHALL BE REVIEWED AND APPROVED BY HRSD PROJECT MANAGER AND/OR ENGINEER.

25. CONTRACTOR SHALL FURNISH THE CITY OF SUFFOLK DEPARTMENT OF UTILITIES A COMPLETE SET OF RECORD DRAWINGS IN ACCORDANCE WITH THE CITY OF SUFFOLK PUBLIC FACILITIES MANUAL VOLUME II.

CITY OF SUFFOLK TRAFFIC ENGINEERING GENERAL NOTES

1. A LAND USE PERMIT MUST BE OBTAINED FROM THE CITY OF SUFFOLK, DEPARTMENT OF PUBLIC WORKS BEFORE ANY CONSTRUCTION IS STARTED WITHIN THE EXISTING CITY RIGHT OF WAY. CONTACT THE CITY FOR THE PERMIT FEE AND BOND AMOUNT. ALL LAND USE PERMIT APPLICATIONS MUST HAVE TWO (2) SETS OF APPROVED PLANS, A CHECK FOR THE PROCESSING FEE MADE PAYABLE TO THE CITY TREASURER, AND SURETY IN THE REQUIRED AMOUNT.

2. THE CONTRACTOR IS RESPONSIBLE FOR THE RELOCATION OF ANY UTILITIES OR PAVEMENT MARKINGS WITHIN THE EXISTING RIGHT OF WAY OR PROPOSED RIGHT OF WAY REQUIRED BY THE DEVELOPMENT OF THE SITE/SUBDIVISION.

3. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF A TRAFFIC SIGNAL OR ANY MODIFICATIONS TO AN EXISTING TRAFFIC SIGNAL THAT ARE DETERMINED TO BE NECESSARY. SOME WORK MAY BE CHARGED UNDER AN OPERATIONAL PROJECT NUMBER AND PERFORMED BY CITY STAFF. CONTACT THE CITY TRAFFIC ENGINEER FOR THE PROPER PROCEDURE TO BE FOLLOWED ON THIS PROJECT.

4. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER TO VERIFY THE FINAL APPROVAL OF THE PLANS, OR ANY REVISED PLANS, BY THE VARIOUS AGENCIES (PUBLIC UTILITIES, PUBLIC WORKS, ETC.).

5. CITY OF SUFFOLK APPROVAL OF THESE PLANS WILL EXPIRE IN FIVE (5) YEARS FROM THE DATE OF APPROVAL.

6. THE TRAFFIC ENGINEER IS TO RECEIVE WRITTEN NOTIFICATION 48 HOURS PRIOR TO THE START OF ANY TRAFFIC ENGINEERING RELATED WORK. A PRE-CONSTRUCTION MEETING WILL BE REQUIRED PRIOR TO ANY TRAFFIC ENGINEERING RELATED WORK ON THE SITE. THE CONTRACTOR SHALL ATTEND THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR SHALL HAVE A PROPOSED PROGRESS SCHEDULE OF WORK TO DISCUSS AT THE MEETING.

7. ANY ERRORS, CONFLICTS, OR DISCREPANCIES FOUND ON THE APPROVED PLANS SHALL BE REPORTED TO THE ENGINEER AND THE CITY TRAFFIC ENGINEER FOR RESOLUTION BEFORE PROCEEDING FURTHER WITH WORK.

8. THE CONTRACTOR (SUB-CONTRACTOR) SHALL VERIFY IN THE FIELD THE ELEVATIONS OF ALL POINTS OF CONNECTION OF PROPOSED WORK TO EXISTING ITEMS, PRIOR TO THE CONSTRUCTION IN THE FIELD.

9. ALL MATERIALS AND CONSTRUCTION WITHIN THE PROPOSED PUBLIC RIGHT OF WAY, SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF SUFFOLK SPECIFICATIONS AND STANDARDS.

10. ANY REQUEST FOR A CHANGE OF SPECIFIED MATERIALS OR DESIGN FROM THE APPROVED PLANS WILL NEED TO BE SUBMITTED TO THE CITY TRAFFIC ENGINEER. A LETTER MUST ACCOMPANY THE PROPOSED CHANGES AND INCLUDE REVISED PLAN SHEETS AND/OR DESIGN CALCULATIONS FOR REVIEW AND APPROVAL BY THE CITY TRAFFIC ENGINEER.

11. A PROFESSIONAL ENGINEER OR PROFESSIONAL GEOLOGIST WILL SUBMIT A COMPLETE REPORT WITH BORING DATA AND RECOMMENDATIONS TO THE CITY FOR APPROVAL OF HIS PROPOSED METHOD OF CONSTRUCTION. THIS REPORT SHALL BE IN CONFORMANCE WITH VDOT ROAD AND BRIDGE SPECIFICATION. THE REPORT WILL SHOW THE BORE LOCATIONS, TYPES OF SOILS ENCOUNTERED, AND ANY RECOMMENDATIONS.

12. WHEN SOILS OCCUR THAT ARE UNSUITABLE FOR FOUNDATIONS, BACKFILL, OR OTHER WORK REQUIREMENT PURPOSES, THE CONTRACTOR SHALL EXCAVATE SAID MATERIAL UNDER DIRECTION OF THE SOILS ENGINEER, BY UNDERCUTTING SUCH MATERIAL BELOW THE PROPOSED GRADES SHOWN ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE CITY TRAFFIC ENGINEER UPON DISCOVERY OF THE UNSUITABLE MATERIAL. CONCURRENCE OF THE ENGINEER SHALL BE OBTAINED BEFORE ADDITIONAL WORK IS UNDERTAKEN.

13. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL EROSION CONTROL MEASURES WILL BE IN PLACE AND REVIEWED BY THE CONTRACTOR DAILY AND AFTER ALL INCLEMENT WEATHER TO ENSURE COMPLIANCE FOR THE CONTROL OF ANY EROSION AND SILTATION. ANY CORRECTIONS OR REPAIRS WILL BE MADE IMMEDIATELY. IN ACCORDANCE WITH CITY OF SUFFOLK PFM, THE CITY REQUIRES A CERTIFIED INDIVIDUAL, HOLDING A RESPONSIBLE LAND DISTURBER CERTIFICATION, TO BE IN CHARGE OF THE LAND DISTURBING ACTIVITY AND ON THE WORK SITE AT ALL TIMES.

14. THE CONTRACTOR AND SUBCONTRACTOR(S) SHALL HAVE A COPY OF THE CURRENT PROJECT STANDARDS AND SPECIFICATIONS AT THE SITE. THE CONTRACTOR SHALL HAVE AT LEAST ONE (1) SET OF APPROVED PLANS WITH ALL APPROVED REVISIONS. THE LAND USE PERMIT WILL BE AT THE SITE AT ALL TIMES.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND AND OVERHEAD UTILITIES, WHETHER OR NOT THEY ARE SHOWN ON THE PLANS. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRS AT HIS OWN EXPENSE OF ANY UTILITIES DAMAGED BY HIS CONSTRUCTION METHODS. MISS UTILITY MUST BE CONTACTED AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

16. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING, WITH MATCHING MATERIALS, ANY PAVEMENT, CURB AND GUTTER, DRIVEWAY PIPE, SIDEWALK, ETC. THAT ARE DAMAGED DURING THE CONSTRUCTION OF THE PROJECT.

17. CERTIFICATION AND SOURCE OF MATERIALS ARE TO BE SUBMITTED TO THE CITY TRAFFIC ENGINEER. ALL MATERIALS MUST MEET CITY OF SUFFOLK SPECIFICATIONS AND STANDARDS.

18. THE GEOTECHNICAL ENGINEER AND/OR HIS CERTIFIED MATERIALS TECHNICIANS WILL PERFORM COMPACTION (DENSITY) TESTS FOR REVIEW BY THE CITY OF SUFFOLK. ALL TESTS WILL BE PERFORMED IN ACCORDANCE WITH THE CURRENT PFM SPECIFICATIONS AND STANDARDS. BACKFILL MATERIAL FOR PIPE, STRUCTURES, AND UTILITIES LOCATED WITHIN THE PROPOSED RIGHT OF WAY WILL BE COMPACTED AND TESTED AS THE FILL MATERIAL IS PLACED IN UNIFORM LIFTS. A MINIMUM OF 95% DENSITY WITH THE SOILS STANDARD PROCTOR WILL BE OBTAINED WITH THE PROPER MOISTURE CONTENT ON EMBANKMENT AND FILLS MATERIAL. FOR THE FINAL 6" OF THE FINISHED SUBGRADE, 100% DENSITY WILL BE OBTAINED. THE TEST RESULTS WILL BE SUBMITTED TO THE CITY OF SUFFOLK FOR REVIEW AND COMPLIANCE OF THE MATERIALS, PRIOR TO THE CONTRACTOR REQUESTING AN INSPECTION FOR A PROOF ROLL ON THE SUBGRADE, AGGREGATE STONE, BASE MIX (ASPHALT) OR THE PLACEMENT OF THE SURFACE MIX.

19. ALL TRAFFIC ENGINEERING EASEMENTS SHALL BE LABELED AS "TRAFFIC CONTROL EASEMENTS" AND SHALL BE DEDICATED TO THE CITY OF SUFFOLK.

20. ALL CONCRETE SHALL BE CLASS A3 (3,500 PSI WITH AIR ENTRAINED ADDITIVE) AND TESTED BY THE OWNER'S GEOTECHNICAL ENGINEER FOR CONFORMANCE TO CITY OF SUFFOLK PFM SPECIFICATIONS AND STANDARDS.

21. THERE SHALL BE A MINIMUM OF 1' OF COMPACTED 21-B AGGREGATE MATERIAL OR STONE DEPTH SHALL MATCH THE EXISTING PAVEMENT TYPICAL UNDER THE CURB AND GUTTER. THIS MATERIAL SHALL EXTEND 1' BEYOND THE BACK OF THE CURB AND GUTTER. DENSITY TESTS SHALL BE TAKEN PRIOR TO A PROOF ROLL OF THE MATERIAL AND PLACEMENT OF THE CURB/CURB AND GUTTER. UNDERDRAINS WILL BE INSTALLED ON RAISED CURB MEDIANS IN ACCORDANCE WITH CURRENT CITY OF SUFFOLK PFM SPECIFICATIONS AND STANDARDS.

22. ALL STREETS WITH CURB AND GUTTER SHALL HAVE A STANDARD CG ENTRANCE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY PFM. THE CURB AND GUTTER PAN SHALL BE REMOVED PRIOR TO THE INSTALLATION OF THE ENTRANCE UNLESS A WIPE-DOWN OF THE CURB WAS MADE DURING THE INSTALLATION OF THE CURB AND GUTTER. THE SAW CUTTING AND REMOVAL OF ONLY THE CURB PORTION IS NOT ALLOWED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL CONCRETE ENTRANCES HAVE BEEN INSTALLED IN ACCORDANCE WITH CITY OF SUFFOLK SPECIFICATIONS AND STANDARDS.

23. ALL UNDERGROUND UTILITIES ARE TO BE IN PLACE PRIOR TO THE PLACEMENT OF THE BASE MATERIAL AND SHALL HAVE A MINIMUM COVERING OF 36". ON CURB AND GUTTER STREETS, THE AREA DIRECTLY BEHIND THE CURB TO THE RIGHT OF WAY LINE SHALL BE RELATIVELY FLAT AT THE PRIVATE ENTRANCE LOCATION. THE CONTRACTOR SHOULD CUT EMBANKMENTS TO THE RIGHT OF WAY LINE PRIOR TO THE INSTALLATION OF ALL UNDERGROUND UTILITIES TO INSURE A MINIMUM 36" OF COVER.

24. ALL HOT MIX (ASPHALT) COURSES SHALL BE PLACED IN ACCORDANCE WITH CITY PFM. THE WEATHER LIMITATIONS OF A 40° F SURFACE TEMPERATURE OR 50° F AND RISING AIR TEMPERATURE SHALL BE FOLLOWED. THE GEOTECHNICAL ENGINEER SHALL TEST THE MATERIAL TO ENSURE COMPLIANCE WITH CURRENT PFM SPECIFICATION AND THE SUPPLIER'S JOB MIX DESIGN. THE GEOTECHNICAL ENGINEER SHALL ALSO PERFORM A ROLLER PATTERN AND A CONTROL STRIP FOR THE THEORETICAL DENSITY (COMPACTION) OF THE MATERIAL IN CONFORMANCE WITH THE CURRENT CITY PFM SPECIFICATIONS.

25. ALL UTILITY CABINETS, PEDESTALS, AND STREETLIGHTS SHALL BE LOCATED IN ACCORDANCE WITH CLEAR ZONE REQUIREMENTS, AS NOTED IN THE CURRENT PFM. THERE SHALL NOT BE ANY CABINETS, PEDESTALS, OR FIRE HYDRANTS LOCATED ON THE SHOULDER.

26. ALL STORM PIPE, DROP INLET STRUCTURES, DITCHES, AND CURB AND GUTTER SHALL BE CLEANED OF DEBRIS AND SILT DURING THE LAST STAGES OF CONSTRUCTION.

27. FLOWERS, SHRUBS, AND TREES SHALL NOT BE PLACED WITHIN THE PROPOSED RIGHT OF WAY BY THE CONTRACTOR OR HOMEOWNER WITHOUT AN APPROVED SET OF PLANS AND AN APPROVED PLANTING AGREEMENT. NO IRRIGATION SPRINKLER SYSTEMS SHALL BE LOCATED WITHIN THE PROPOSED R/W. ANY IRRIGATION SYSTEM FOUND WITHIN THE R/W WILL BE REMOVED PRIOR TO THE ACCEPTANCE OF THE STREETS AND ALL COSTS WILL BE BORNE BY THE OWNER. NO BRICK COLUMNS, ENDWALLS, AND/OR BRICK MAILBOXES WILL BE CONSTRUCTED OR INSTALLED IN THE PROPOSED R/W. ANY OF THE ABOVE ITEMS FOUND IN THE PROPOSED R/W WILL BE REMOVED, AND ALL COSTS OF THE REMOVAL WILL BE BORNE BY THE OWNER AND/OR CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING MAILBOX POSTS.

28. NO EASEMENTS SHALL ENCROACH UPON THE PROPOSED R/W, ANY EASEMENTS LOCATED WITHIN THE PROPOSED R/W MUST BE REMOVED FROM THE PLAT PRIOR TO THE RECORDATION OF THE PLAT. A DEED OF QUIT CLAIM WILL BE REQUIRED ON ANY EASEMENTS LOCATED WITHIN THE PROPOSED R/W PRIOR TO THE ACCEPTANCE OF THE STREETS INTO THE CITY ROAD SYSTEM.

CITY OF SUFFOLK TRAFFIC ENGINEERING GENERAL NOTES (CONTINUED)

29. CONTACT CITY TRAFFIC ENGINEER 72 HOURS IN ADVANCE OF ALL PAVEMENT MARKINGS/SIGN INSTALLATIONS AT (757) 514-7603. FAILURE TO DO SO MAY RESULT IN ADDITIONAL COST TO THE CONTRACTOR.

30. CONTACT THE CITY TRAFFIC ENGINEER AT (757) 514-7603 A MINIMUM OF 48 HOURS IN ADVANCE WHENEVER AN OPEN CUT OR BORING OF A UTILITY LINE ACROSS A ROAD IS WITHIN 400 FEET OF A TRAFFIC SIGNAL, SO THE LINES CAN BE MARKED. FAILURE TO DO SO COULD BE A COSTLY REPAIR FOR THE CONTRACTOR.

31. TRAFFIC ON EXISTING ROADWAYS MUST BE MAINTAINED DURING CONSTRUCTION WHEN ANY WORK IS BEING PERFORMED WITHIN THE EXISTING RIGHT OF WAY. THE MAINTENANCE OF TRAFFIC PLAN FOR THIS WORK MUST BE IN CONFORMANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL AND ANY OTHER SPECIAL PROVISIONS LISTED IN THE CITY LAND USE PACKAGE FOR THIS SITE.

32. DURING THE CONSTRUCTION, THE CONTRACTOR SHALL RECORD ON A SET OF THE PLANS THE AS-BUILT LOCATIONS AND DIMENSIONS OF ALL CONSTRUCTED ITEMS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER AS-BUILT LOCATIONS AND DIMENSIONS SHOWN AS MARK-UPS AND NOTES ON A COMPLETE SET OF PLANS. EACH SHEET SHALL BE MARKED "AS-BUILT" OR "RECORD DRAWINGS" AND DATED. ALL AS-BUILT INFORMATION SHALL BE "BLOCKED' OR "FRAMED" FOR IDENTIFICATION AS FINAL AS-BUILT INFORMATION. TRAFFIC FACILITIES SHALL BE LOCATED BY A DISTANCE MEASURED FROM THE CENTERLINE OF THE STREET, WHERE APPLICABLE, AND A DISTANCE OVER TO THE STRUCTURE, ALSO MEASURED FROM THE CENTERLINE OF THE STREET. A TOLERANCE OF TEN FEET (10') FOR DRAWINGS AT A SCALE OF TWENTY FEET (20') OR MORE AND FIVE FEET (5') FOR A DRAWING AT A SCALE LESS THAN TWENTY FEET (20') WILL BE ALLOWED FOR THE DRAWN LOCATION OF STRUCTURES. WHERE THE AS-BUILT LOCATION OF A STRUCTURE IS AT A GREATER DISTANCE THAN THAT INDICATED ABOVE FROM IT'S PLANNED LOCATION, THE STRUCTURE SHALL BE REDRAWN AT ITS AS-BUILT LOCATION, ERASING OR HATCHING OUT THE STRUCTURE AT ITS PLANNED LOCATION.

VDOT GENERAL NOTES

GRADING

G-1 THE GRADE LINE DENOTES TOP OF FINISHED PAVEMENT UNLESS SHOWN OTHERWISE ON TYPICAL SECTIONS OR PLANS.

G-3 EARTHWORK QUANTITIES ON THIS PROJECT ARE BASED ON ANTICIPATED SETTLEMENT AND MAY REQUIRE ADJUSTING DURING CONSTRUCTION. PAYMENT WILL BE MADE ONLY FOR QUANTITIES ACTUALLY MOVED.

G-6 THE BORROW MATERIAL FOR THIS PROJECT SHALL BE A MINIMUM CBR 15 OR AS APPROVED BY THE MATERIALS ENGINEER.

DRAINAGE

D-1 THE HORIZONTAL LOCATION OF ALL DRAINAGE STRUCTURES SHOWN ON THESE PLANS IS APPROXIMATE ONLY, WITH THE EXCEPTION OF STRUCTURES SHOWING SPECIFIC STATIONS, SPECIAL DESIGN BRIDGES, AND STORM SEWER SYSTEMS.

D-2 THE HORIZONTAL LOCATION AND INVERT ELEVATIONS SHOWN FOR PROPOSED CULVERTS AND STORM SEWER OUTFALL PIPES ARE BASED ON EXISTING SURVEY DATA AND REQUIRED DESIGN CRITERIA. IF, DURING CONSTRUCTION, IT IS FOUND THAT THE HORIZONTAL LOCATION OR INVERT ELEVATIONS SHOWN ON THE PLANS DIFFER SIGNIFICANTLY FROM THE HORIZONTAL LOCATION OR ELEVATIONS OF THE STREAM OR SWALE IN WHICH THE CULVERT OR STORM SEWER OUTFALL PIPE IS TO BE PLACED, THE ENGINEER SHALL CONFER WITH, AND GET APPROVAL FROM, THE APPLICABLE DISTRICT DRAINAGE ENGINEER BEFORE INSTALLING THE CULVERT OR STORM SEWER OUTFALL PIPE.

D-3 THE "H" DIMENSIONS SHOWN ON THE PLANS FOR DROP INLETS AND JUNCTION BOXES AND THE "L.F." DIMENSIONS SHOWN FOR MANHOLES ARE FOR ESTIMATING PURPOSES AND ARE BASED ON THE PROPOSED INVERT ELEVATIONS SHOWN FOR THE STRUCTURE AND THE ANTICIPATED TOP (RIM) ELEVATION BASED ON EXISTING OR PROPOSED FINISH GRADE. THE ACTUAL "H" OR "L.F." DIMENSIONS ARE TO BE DETERMINED BY THE CONTRACTOR FROM FIELD CONDITIONS.

D-12 ALL EXISTING DRAINAGE FACILITIES LABELED "TO BE ABANDONED" SHALL BE LEFT IN PLACE, BACKFILLED AND PLUGGED IN ACCORDANCE WITH THE VDOT ROAD AND BRIDGE STANDARD PP-1. BASIS OF PAYMENT WILL BE C.Y. OF FLOWABLE BACKFILL.

D-13 EXISTING DRAINAGE FACILITIES BEING UTILIZED AS A PART OF THE DRAINAGE SYSTEM, AND DESIGNATED ON THE PLANS "TO BE CLEANED OUT", SHALL BE CLEANED AS DIRECTED BY THE ENGINEER. THE COST INCIDENTAL TO THIS SHALL BE INCLUDED IN THE CONTRACT PRICE FOR OTHER ITEMS.

D-14 PROPOSED DROP INLETS WITH A HEIGHT (H) LESS THAN THE STANDARD MINIMUM SHOWN IN THE VDOT ROAD AND BRIDGE STANDARDS SHALL BE CONSIDERED AND PAID FOR AS STANDARD DROP INLETS FOR THE TYPE SPECIFIED. PIPES WITH LESS THAN STANDARD MINIMUM FINISHED HEIGHT OF COVER SHALL BE NOTED AS SUCH IN THE DRAINAGE DESCRIPTION FOR THE PIPE. SPECIFIC PIPE BEDDING AND COVER REQUIREMENTS ARE PROVIDED IN THE APPLICABLE PB-1 AND PC-1 STANDARD DRAWINGS OF THE VDOT ROAD AND BRIDGE STANDARDS.

D-16 WHEN STANDARD CG-6 OR CG-7 IS SPECIFIED ON A RADIUS (SUCH AS AT A STREET INTERSECTION), THE ENGINEER MAY APPROVE A DECREASE IN THE CROSS SLOPE OF THE GUTTER TO FACILITATE PROPER DRAINAGE.

D-17 ST'D. SL-1 SAFETY SLAB LOCATIONS ARE BASED ON THE ASSUMED USE OF PRECAST STRUCTURES. IF CAST-IN-PLACE STRUCTURES ARE UTILIZED, AND THE INTERIOR CHAMBER DIMENSIONS (LENGTH AND WIDTH, OR DIAMETER) ARE LESS THAN 4 FEET, THE SAFETY SLABS SHALL NOT BE INSTALLED.

PAVEMENT

P-2 THE PAVEMENT MATERIALS ON THIS PROJECT WILL BE PAID FOR ON A TONNAGE BASIS. THE WEIGHT WILL VARY IN ACCORDANCE WITH THE SPECIFIC GRAVITY OF THE AGGREGATES AND THE ASPHALTIC CONTENT OF THE MIX ACTUALLY USED TO SECURE THE DESIGN DEPTH. THE WEIGHT OF THE ASPHALT CONCRETE IS BASED ON 95% OF THEORETICAL MAXIMUM DENSITY. (SEE IIM-LD-158)

INCIDENTAL

I-8A CLEARING AND GRUBBING SHALL BE CONFINED TO THOSE AREAS NEEDED FOR CONSTRUCTION. NO TREES OR SHRUBS IN UNGRADED AREAS SHALL BE CUT WITHOUT THE PERMISSION OF THE ENGINEER.

I-9 WHEN NO CENTERLINE ALIGNMENT IS SHOWN FOR A PROPOSED ENTRANCE, THE ENTRANCE SHALL BE CONSTRUCTED IN THE SAME LOCATION AS THE EXISTING ENTRANCE.

I-16 THE "UNDERGROUND UTILITIES" SURVEY DATA ON THIS PROJECT HAS BEEN PROVIDED BY CONSULTANT AND COPIES ARE AVAILABLE FROM THE DEPARTMENT.

EROSION AND SEDIMENT CONTROL (ESC)

E-2 ROCK FOR CHECK DAMS, INLET PROTECTION, EROSION CONTROL STONE, AND RIPRAP SHALL BE IN ACCORDANCE WITH SECTION 203 AND SECTION 414 OF THE APPLICABLE VDOT ROAD AND BRIDGE SPECIFICATIONS.

No.	REVISIONS	DATE	BY

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LICENSED PROFESSIONAL

DATE:

KHA PROJECT 117019046
DATE 06/08/2018
SCALE AS SHOWN
DESIGNED BY APF
DRAWN BY KMP
CHECKED BY WFM

GENERAL NOTES

PORTSMOUTH BOULEVARD SIDEWALK IMPROVEMENTS
PREPARED FOR
SUFFOLK
SUFFOLK VIRGINIA

SHEET NUMBER
2

Plotted By:Farthing, Andrew Sheet Set:Portsmouth Blvd Sidewalk Layout:2 GENERAL NOTES June 08, 2018 11:34:35am \\kimley-horn.com\AT_VAB\VAB_RDWY\117019046-Portsmouth Blvd Sidewalk\Design\PlanSheets\2-GENERAL_NOTES.dwg
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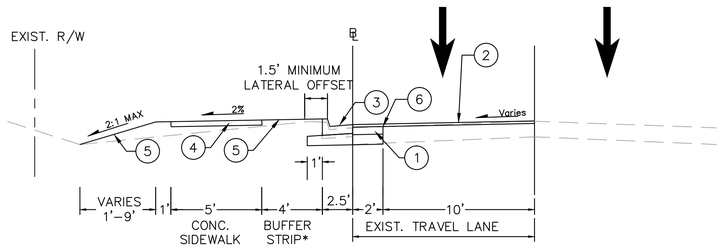
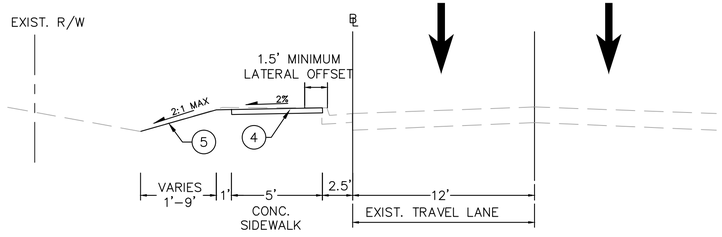
TYPICAL SECTIONS - PHASE I IMPROVEMENTS



PORTSMOUTH BLVD
STA. 10+00 TO STA. 12+90
N.T.S.

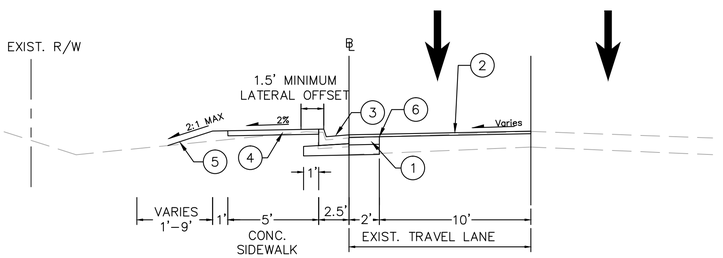
BUFFER WIDTH VARIES 0' TO 4' STA. 10+00 TO STA. 10+96
BUFFER WIDTH VARIES 4' TO 3' STA. 12+23 TO STA. 12+89

TYPICAL SECTIONS - PHASE II IMPROVEMENTS



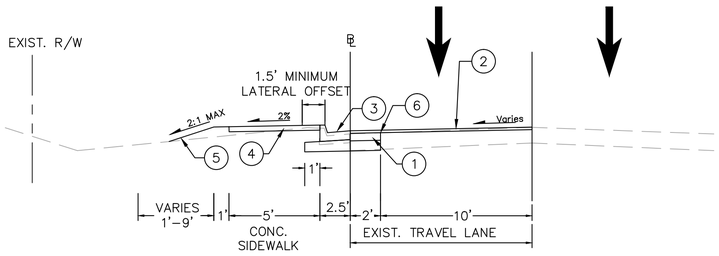
PORTSMOUTH BLVD
STA. 16+77 TO STA. 20+61
STA. 26+28 TO STA. 29+44
N.T.S.

BUFFER WIDTH VARIES 0' TO 3.5' STA. 19+41 TO STA. 20+61

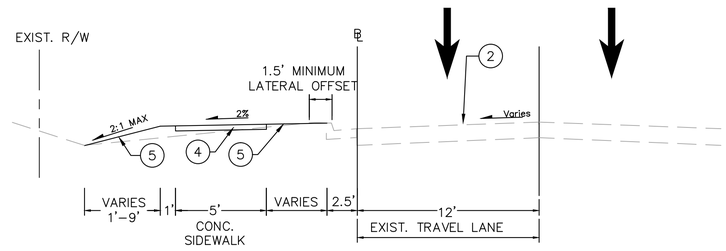


PORTSMOUTH BLVD
STA. 29+44 TO STA. 35+75
N.T.S.

TYPICAL SECTIONS - PHASE III IMPROVEMENTS



PORTSMOUTH BLVD
STA. 35+75 TO STA. 44+50
N.T.S.



PORTSMOUTH BLVD
STA. 45+00 TO STA. 47+48
N.T.S.

BUFFER WIDTH VARIES 7' TO 3.6' STA. 45+00 TO STA. 47+48

1. PROPOSED FULL DEPTH ASPHALT PAVEMENT (PAVEMENT DESIGN TO BE PROVIDED UPON COMPLETION OF GEOTECHNICAL REPORT)
2. PROPOSED 2" MILLING OF EXISTING PAVEMENT AND VARIABLE DEPTH OVERLAY (PAVEMENT DESIGN TO BE PROVIDED UPON COMPLETION OF GEOTECHNICAL REPORT)
3. VDOT STD. CG–6
4. HYDRAULIC CEMENT CONCRETE SIDEWALK, 4"
5. GRADED SLOPE WITH TOPSOIL AND SEED
6. SAWCUT AND PAVEMENT DEMOLITION IN ACCORDANCE WITH VDOT STD. WP–2 DETAIL

No.	REVISIONS	DATE	BY

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LICENSED PROFESSIONAL

DATE:

KHA PROJECT	117019046
DATE	06/08/2018
SCALE	AS SHOWN
DESIGNED BY	APF
DRAWN BY	KMP
CHECKED BY	WFM

TYPICAL SECTIONS

PORTSMOUTH BOULEVARD
SIDEWALK IMPROVEMENTS
PREPARED FOR
SUFFOLK
VIRGINIA
SUFFOLK

SHEET NUMBER
2A

Plotted By:Forthing, Andrew Sheet Set:Portsmouth Blvd Sidewalk Layout:2A TYPICAL SECTIONS June 08, 2018 11:34:51am \\Vkimley-horn.com\AT_VAB\VAB_RDWY\117019046-Portsmouth Blvd Sidewalk\Design\PlanSheets\2A-TYPICAL SECTIONS.dwg
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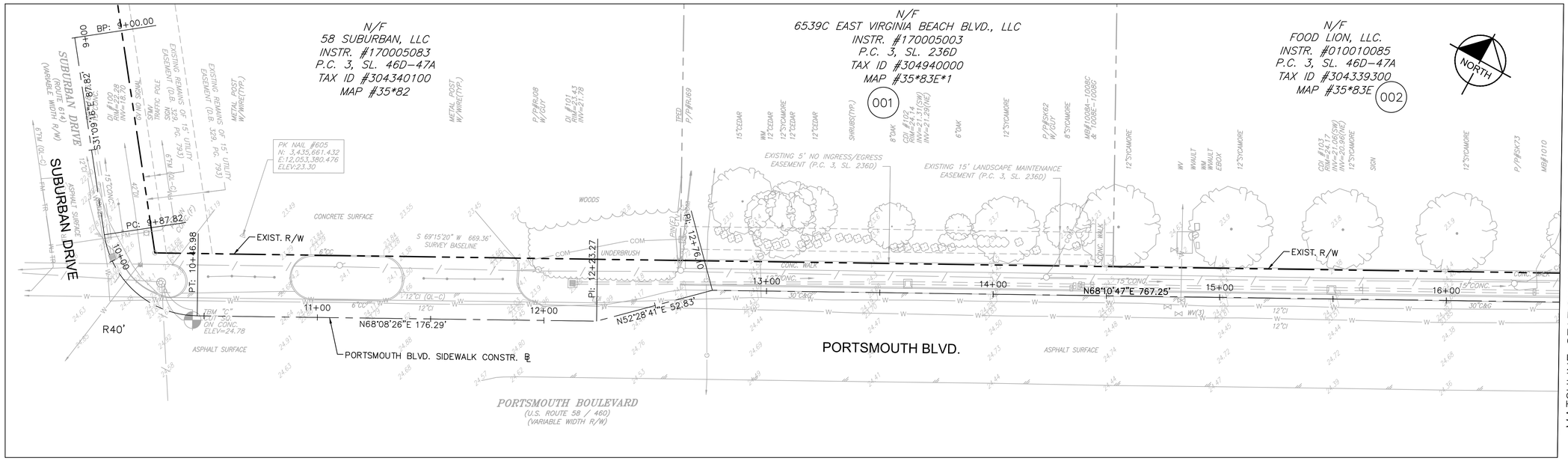

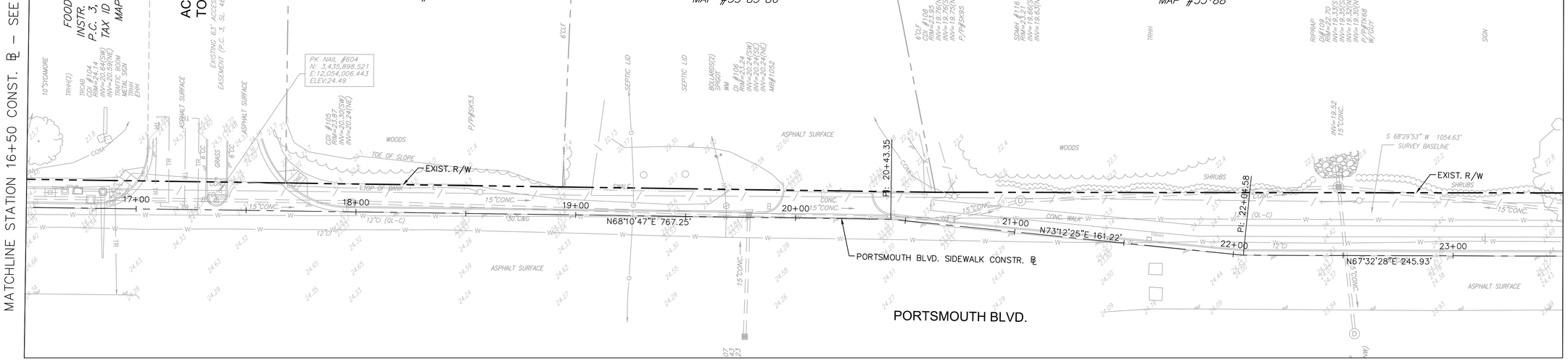

GRAPHIC SCALE IN FEET
0 12.5 25 50

No.	REVISIONS	DATE	BY

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DATE:	

EXISTING CONDITIONS

PORTSMOUTH BOULEVARD
SIDEWALK IMPROVEMENTS
PREPARED FOR
SUFFOLK
VIRGINIA
SUFFOLK

SHEET NUMBER
3

Plotted By: Forthing, Andrew Sheet Set: Portsmouth Blvd Sidewalk Layout 3 EXISTING CONDITIONS June 08, 2018 11:35:08am \\kimley-horn.com\VAT_VAB\VAB_ROWY\117019046-Portsmouth Blvd Sidewalk\Design\PlanSheets\EXISTING CONDITIONS.dwg
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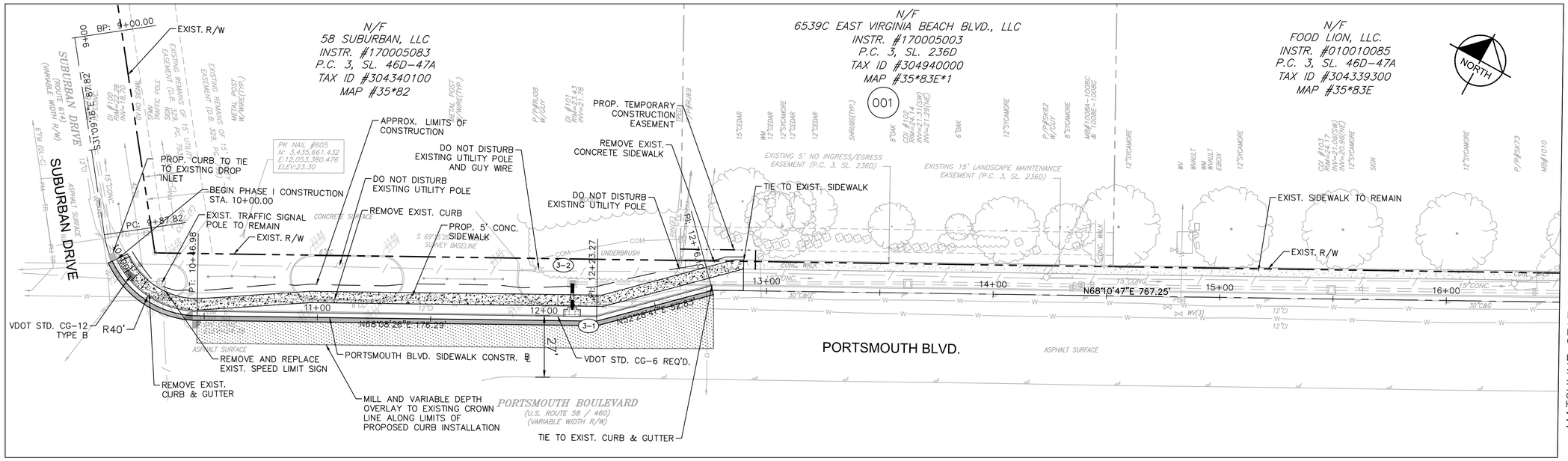

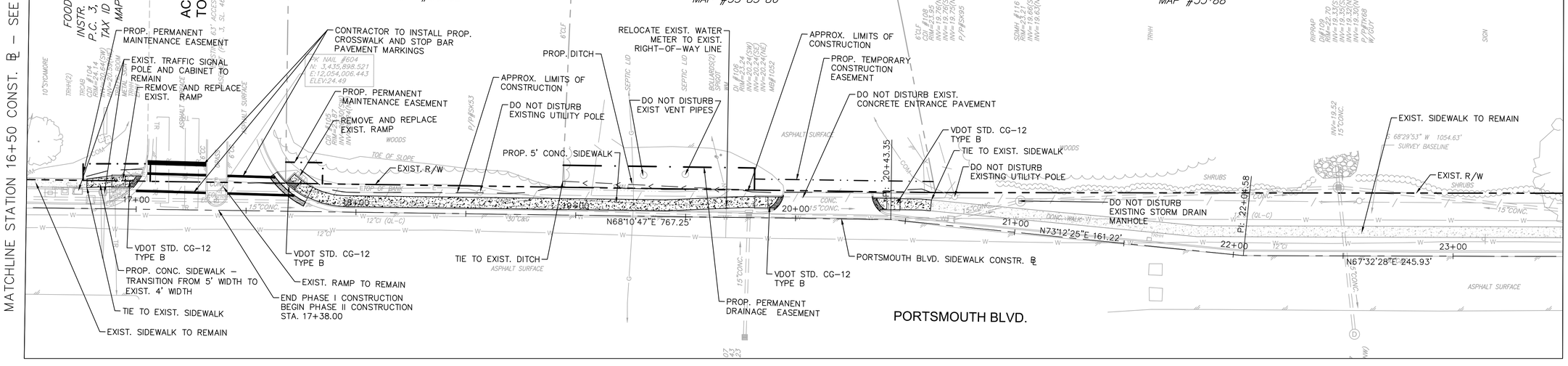

LEGEND

- C — CUT LINE
- F — FILL LINE
- PROP. DITCH
- DENOTES PROP. PERMANENT EASEMENT
- DENOTES PROP. TEMPORARY EASEMENT
- DENOTES PROPOSED CONCRETE SIDEWALK
- DENOTES PROPOSED MILL AND OVERLAY
- DENOTES PROPOSED FULL DEPTH PAVEMENT

GRAPHIC SCALE IN FEET
0 12.5 25 50

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ROADWAY PLAN

PORTSMOUTH BOULEVARD
SIDEWALK IMPROVEMENTS
PREPARED FOR
SUFFOLK
VIRGINIA
SUFFOLK

SHEET NUMBER
3A

Plotted By: Forthing, Andrew Sheet Set: Portsmouth Blvd Sidewalk Layout: 3A ROADWAY PLAN June 08, 2018 11:30:30am \\kimley-horn.com\AT_VAB\VAB_RDWY\117019046_Portsmouth Blvd Sidewalk\Design\PlanSheets\ROADWAY PLANS.dwg
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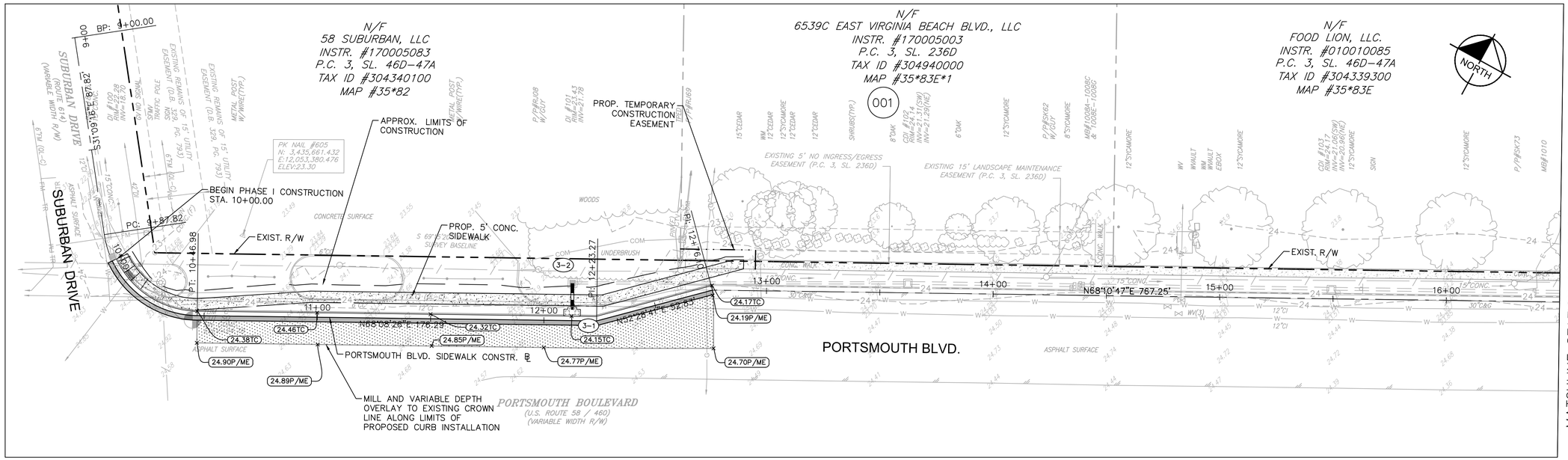

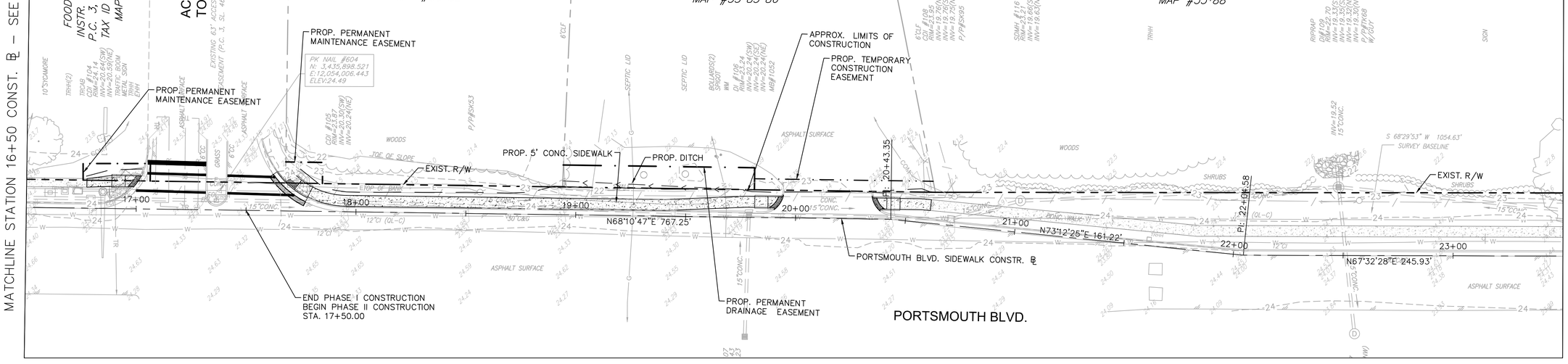

GRAPHIC SCALE IN FEET
0 12.5 25 50

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CHECKED BY WFM
DATE:

GRADING AND DRAINAGE PLAN

PORTSMOUTH BOULEVARD SIDEWALK IMPROVEMENTS
PREPARED FOR SUFFOLK
VIRGINIA
SUFFOLK

SHEET NUMBER
3B

Plotted By: Forthing, Andrew Sheet Set: Portsmouth Blvd Sidewalk Layout 3B GRADING AND DRAINAGE PLAN June 08, 2018 11:35:58am \\vkimley-horn.com\AT_VAB\VAB_RDWY\117019046-Portsmouth Blvd Sidewalk\Design\PlanSheets\GRADING AND DRAINAGE.dwg
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MATCHLINE STATION 23+50 CONST. ℄ – SEE SHEET 3

N/F
EAST END BAPTIST CHURCH
INSTR. #200608230001719800
P.B. 13, PG. 21
TAX ID #300777000
MAP #35*88

EXIST. CHURCH ENTRANCE

N/F
WOODROW WILSON HYMAN, ESTATE
INSTR. #02W000025(WILL PER CITY)
P.B. 13, PG. 21
TAX ID #302037000
MAP #35A*63

005
N/F
CIVEL I. MAYFIELD ESTATE
INSTR. #077100096(WILL)
P.B. 13, PG. 21
TAX ID #302678000
MAP #35A*62

006
N/F
ANDRE C. SMITH
& JANICE D. SMITH
INSTR. #050027410
D.B. 235, PG. 234(PLAT)
TAX ID #302816000
MAP #35A*61A*PT*61

NORTH

EXIST. R/W
PI: 24+50.50
PI: 25+48.98
PI: 26+46.34
PI: 26+81.34
PI: 27+44.22
PI: 30+38.35
24+00
25+00
26+00
27+00
28+00
29+00
30+00
N67°32'28"E 245.93'
N60°32'53"E 98.47'
N67°06'06"E 97.36'
N67°49'01"E 35.00'
N67°23'58"E 62.88'
N69°37'44"E 294.13'
N67°23'07"E
1861.66'
PORTSMOUTH BLVD.
PORTSMOUTH BLVD. SIDEWALK CONSTR. ℄
PORTSMOUTH BOULEVARD
(U.S. ROUTE 58 / 460)
(VARIABLE WIDTH R/W)
EXISTING 7.5' SEWER EASEMENT (P.C. 3, SL. 51A)
PK NAIL #603
N: 3,436,285.079
E:12,054,987.679
ELEV:23.85
TBM "B"
CUT SQ.
ON CONC.
ELEV=23.99
2-STY FRAME
SHRUBS
METAL POST
GATE
SEPTIC LID
SIGN
ASPHALT DRIVE
TOP OF BANK
TOE OF SLOPE
DITCH
GRAVEL
ASPHALT SURFACE
CONC. WALK
CONCRETE DRIVE
TOE OF SLOPE
30'C&G

MATCHLINE STATION 30+50 CONST. ℄ – SEE ABOVE

N/F
MARY BYRUM
INSTR. #170005434
D.B. 235, PG. 234(PLAT)
TAX ID #300946300
MAP #35A*PT*61

N/F
MARY BYRUM
INSTR. #170005434
D.B. 235, PG. 234(PLAT)
TAX ID #300947000
MAP #35A*60

N/F
SANDRA WATKINS
INSTR. #20100329000032660
D.B. 235, PG. 234(PLAT)
TAX ID #300946100
MAP #35A*59

N/F
GWENDOLYN SMITH
INSTR. #400143810(WILL PER CITY)
D.B. 235, PG. 234(PLAT)
TAX ID #300778000
MAP #35A*57

N/F
MICHELLE BAILEY
INSTR. #201306240001325550
D.B. 235, PG. 234(PLAT)
TAX ID #300949000
MAP #35A*56

N/F
EDNA C. HICKS
D.B. 8, PG. 747
D.B. 235, PG. 234(PLAT)
TAX ID #301855500
MAP #35A*55

N/F
SANDRA DELOIS HARRIS WIGGINS
INSTR. #201402240000292330
D.B. 235, PG. 234(PLAT)
TAX ID #301776025
MAP #35A*54

PROSPECT ROAD
PROSPECT ROAD
(VARIABLE WIDTH R/W)

007
N/F
CHARLES B. LAWRENCE
D.B. 232, PG. 315
P.B. 1, PG. 97
TAX ID #302517000
MAP #35A*53

N/F
LEWIS E. PARKER
& JUANITA PARKER
D.B. 131, PG. 753
P.B. 1, PG. 97
TAX ID #302933000
MAP #35A*52

NORTH

EXIST. R/W
R9.5'
31+00
32+00
33+00
34+00
35+00
36+00
37+
S 66°57'38" W 787.10'
SURVEY BASELINE
N67°23'07"E 1861.66'
PORTSMOUTH BLVD. SIDEWALK CONSTR. ℄
PORTSMOUTH BLVD.
PORTSMOUTH BOULEVARD
(U.S. ROUTE 58 / 460)
(VARIABLE WIDTH R/W)
EXISTING 7.5' SEWER EASEMENT (P.C. 3, SL. 51A)
PK NAIL #602
N: 3,436,593.124
E:12,055,712.000
ELEV:23.30
CONC. WALK
CONCRETE DRIVE
GRAVEL DRIVE
TOP OF BANK
DITCH
GRAVEL
ASPHALT SURFACE

MATCHLINE STATION 37+00 CONST. ℄ – SEE SHEET 5

GRAPHIC SCALE IN FEET
0 12.5 25 50

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KHA PROJECT	117019046
DATE	06/08/2018
SCALE	AS SHOWN
DESIGNED BY	APF
DRAWN BY	KMP
CHECKED BY	WFM
DATE:	

EXISTING CONDITIONS

PORTSMOUTH BOULEVARD
SIDEWALK IMPROVEMENTS
PREPARED FOR
SUFFOLK
VIRGINIA

SUFFOLK

SHEET NUMBER
4

Plotted By:Forthing, Andrew Sheet Set:Portsmouth Blvd Sidewalk Layout:4A ROADWAY PLAN June 08, 2018 11:36:36am \\kimley-horn.com\VAT_VAB\VAB_RDWY\117019046-Portsmouth Blvd Sidewalk\Design\PlanSheets\ROADWAY PLANS.dwg
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MATCHLINE STATION 23+50 CONST. ℄ – SEE SHEET 3A

N/F
EAST END BAPTIST CHURCH
INSTR. #20060823000171980
P.B. 13, PG. 21
TAX ID #300777000
MAP #35*88

EXIST. CHURCH ENTRANCE

EXIST. SIDEWALK TO REMAIN

EXIST. R/W

EXIST. RAMP TO REMAIN

TIE TO EXIST. SIDEWALK

EXIST. SIDEWALK TO REMAIN

CONTRACTOR TO ADJUST WATER METER TO GRADE

CONTRACTOR TO RELOCATE EXIST. FIRE HYDRANT

EXIST. CONCRETE ENTRANCE TO REMAIN

N/F
WOODROW WILSON HYMAN, ESTATE
INSTR. #02W000025(WILL PER CITY)
P.B. 13, PG. 21
TAX ID #302037000
MAP #35A*63

005
N/F
CIVEL I. MAYFIELD ESTATE
INSTR. #07100096(WILL)
P.B. 13, PG. 21
TAX ID #302678000
MAP #35A*62

EXISTING 7.5' SEWER EASEMENT (P.C. 3, SL. 51A)

PK NAIL #603
N: 3,436,285.079
E:12,054,987.679
ELEV:23.85

DO NOT DISTURB EXISTING UTILITY POLE

APPROX. TOE OF FILL

PROP. DITCH

PROP. PERMANENT DRAINAGE EASEMENT

PROP. 5' CONC. SIDEWALK

VDOT STD. CG-9D W=16'

006
N/F
ANDRE C. SMITH
& JANICE D. SMITH
INSTR. #050027410
D.B. 235, PG. 234(PLAT)
TAX ID #302816000
MAP #35A*61A*PT*61

DO NOT DISTURB EXISTING UTILITY POLE

TIE TO EXIST. DITCH

PROP. PERMANENT DRAINAGE EASEMENT

DO NOT DISTURB EXISTING WATER METER

VDOT STD. CG-9D W=16'

APPROX. TOE OF FILL

REMOVE AND REPLACE EXIST. SIGN

EXIST. R/W

PORTSMOUTH BLVD.

TIE PROP. SIDEWALK TO EXIST. CONCRETE ENTRANCE

REMOVE EXIST. PIPE

TIE PROP. SIDEWALK TO EXIST. CONCRETE ENTRANCE

PORTSMOUTH BLVD. SIDEWALK CONSTR. ℄

REMOVE EXIST. PIPE

RELOCATE EXIST. MAILBOX

VDOT STD. CG-6 REQ'D.

RELOCATE EXIST. MAILBOX
N67°23'07"E
1861.66'

PROP. DITCH

REMOVE EXIST. PIPE

MILL AND VARIABLE DEPTH OVERLAY TO EXISTING CROWN LINE ALONG LIMITS OF PROPOSED CURB INSTALLATION

PORTSMOUTH BOULEVARD
(U.S. ROUTE 58 / 460)
(VARIABLE WIDTH R/W)

MATCHLINE STATION 30+50 CONST. ℄ – SEE BELOW

MATCHLINE STATION 30+50 CONST. ℄ – SEE ABOVE

N/F
MARY BYRUM
INSTR. #170005434
D.B. 235, PG. 234(PLAT)
TAX ID #300946300
MAP #35A*PT*61

N/F
MARY BYRUM
INSTR. #170005434
D.B. 235, PG. 234(PLAT)
TAX ID #300947000
MAP #35A*60

N/F
SANDRA WATKINS
INSTR. #20100329000032660
D.B. 235, PG. 234(PLAT)
TAX ID #300946100
MAP #35A*59

N/F
GWENDOLYN SMITH
INSTR. #400143810(WILL PER CITY)
D.B. 235, PG. 234(PLAT)
TAX ID #300778000
MAP #35A*57

N/F
MICHELLE BAILEY
INSTR. #20130624000132550
D.B. 235, PG. 234(PLAT)
TAX ID #300949000
MAP #35A*56

N/F
EDNA C. HICKS
D.B. 8, PG. 747
D.B. 235, PG. 234(PLAT)
TAX ID #301855500
MAP #35A*55

N/F
SANDRA DELOIS HARRIS WIGGINS
INSTR. #201402240000292330
D.B. 235, PG. 234(PLAT)
TAX ID #301776025
MAP #35A*54

PROSPECT ROAD
PROSPECT ROAD
(VARIABLE WIDTH R/W)

007
N/F
CHARLES B. LAWRENCE
D.B. 232, PG. 315
P.B. 1, PG. 97
TAX ID #302517000
MAP #35A*53

N/F
LEWIS E. PARKER
& JUANITA PARKER
D.B. 131, PG. 753
P.B. 1, PG. 97
TAX ID #302933000
MAP #35A*52

DO NOT DISTURB EXISTING UTILITY POLE

DO NOT DISTURB EXIST. WATER METER

CONTRACTOR TO RELOCATE EXIST. FIRE HYDRANT

REMOVE EXIST. HEADWALL

CONTRACTOR TO RELOCATE AND ADJUST WATER METER TO GRADE

REMOVE AND REPLACE EXIST. "ONE WAY" SIGN

PROP. PERMANENT DRAINAGE EASEMENT

PK NAIL #602
N: 3,436,593.124
E: 12,055,712.000
ELEV:23.30

DO NOT DISTURB EXISTING UTILITY POLE

EXISTING 7.5' SEWER EASEMENT (P.C. 3, SL. 51A)

CONTRACTOR TO RELOCATE AND ADJUST WATER METER TO GRADE

PROP. DITCH

EXIST. R/W

PROP. 5' CONC. SIDEWALK

VDOT STD. CG-12 TYPE B

RELOCATE EXIST. MAILBOX

VDOT STD. CG-6 REQ'D.

END PHASE II CONSTRUCTION
BEGIN PHASE III CONSTRUCTION
STA. 35+75.00

PORTSMOUTH BOULEVARD
(U.S. ROUTE 58 / 460)
(VARIABLE WIDTH R/W)

PORTSMOUTH BLVD.

LEGEND

- CUT LINE
- FILL LINE
- PROP. DITCH
- DENOTES PROP. PERMANENT EASEMENT
- DENOTES PROP. TEMPORARY EASEMENT
- DENOTES PROPOSED CONCRETE SIDEWALK
- DENOTES PROPOSED MILL AND OVERLAY
- DENOTES PROPOSED FULL DEPTH PAVEMENT

GRAPHIC SCALE IN FEET
0 12.5 25 50

No.	REVISIONS	DATE	BY

Kimley»Horn
4525 MAIN STREET, SUITE 1000, VIRGINIA BEACH, VA 23462
PHONE: 757-213-8600 FAX: 757-213-8601
WWW.KIMLEY-HORN.COM

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LICENSED PROFESSIONAL ENGINEER

KHA PROJECT 117019046	DATE 06/08/2018	SCALE AS SHOWN	DESIGNED BY APF	DRAWN BY KMP	CHECKED BY WFM	DATE:

ROADWAY PLAN

PORTSMOUTH BOULEVARD
SIDEWALK IMPROVEMENTS
PREPARED FOR
SUFFOLK
VIRGINIA

SUFFOLK

SHEET NUMBER
4A

Plotted By:Forthing, Andrew Sheet Set:Portsmouth Blvd Sidewalk Layout:4B GRADING AND DRAINAGE PLAN June 08, 2018 11:37:02am \\kimley-horn.com\VAT_VAB\VAB_ROW\117019046-Portsmouth Blvd Sidewalk\Design\PlanSheets\GRADING AND DRAINAGE.dwg
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MATCHLINE STATION 23+50 CONST. ℄ – SEE SHEET 3B

N/F
EAST END BAPTIST CHURCH
INSTR. #20060823000171980
P.B. 13, PG. 21
TAX ID #300777000
MAP #35*88

EXIST. CHURCH ENTRANCE

N/F
WOODROW WILSON HYMAN, ESTATE
INSTR. #02W000025(WILL PER CITY)
P.B. 13, PG. 21
TAX ID #302037000
MAP #35A*63

005
N/F
CIVEL I. MAYFIELD ESTATE
INSTR. #077100096(WILL)
P.B. 13, PG. 21
TAX ID #302678000
MAP #35A*62

006
N/F
ANDRE C. SMITH
& JANICE D. SMITH
INSTR. #050027410
D.B. 235, PG. 234(PLAT)
TAX ID #302816000
MAP #35A*61A*PT*61

NORTH

EXIST. R/W
PI: 24+50.50
PI: 25+48.98
PI: 26+46.34
PI: 26+81.34
PI: 27+44.22
PI: 38.35
24+00
25+00
26+00
27+00
28+00
29+00
30+00
N67°32'28"E 245.93'
N60°32'53"E 98.47'
N67°06'06"E 97.36'
N67°49'01"E 35.00'
N67°23'58"E 62.88'
N69°37'44"E 294.31'
N67°23'07"E 1861.66'
PORTSMOUTH BLVD.
PORTSMOUTH BOULEVARD
(U.S. ROUTE 58 / 460)
(VARIABLE WIDTH R/W)
PORTSMOUTH BLVD. SIDEWALK CONSTR. ℄
EXISTING 7.5' SEWER EASEMENT (P.C. 3, SL. 51A)
PK NAIL #603
N: 3,436,285.079
E:12,054,987.679
ELEV:23.85
APPROX. TOE OF FILL
PROP. DITCH
PROP. PERMANENT DRAINAGE EASEMENT
PROP. 5' CONC. SIDEWALK
TBM "2" CUT SQ. ON CONC. ELEV=23.99
MILL AND VARIABLE DEPTH OVERLAY TO EXISTING CROWN LINE ALONG LIMITS OF PROPOSED CURB INSTALLATION
24.27P/ME
24.32P/ME
23.92TC
24.14TC

MATCHLINE STATION 30+50 CONST. ℄ – SEE ABOVE

N/F
MARY BYRUM
INSTR. #1700054.34
D.B. 235, PG. 234(PLAT)
TAX ID #3009946300
MAP #35A*PT*61

N/F
MARY BYRUM
INSTR. #1700054.34
D.B. 235, PG. 234(PLAT)
TAX ID #300947000
MAP #35A*60

N/F
SANDRA WATKINS
INSTR. #20100329000032660
D.B. 235, PG. 234(PLAT)
TAX ID #300946100
MAP #35A*59

N/F
GWENDOLYN SMITH
INSTR. #040143810(WILL PER CITY)
D.B. 235, PG. 234(PLAT)
TAX ID #300778000
MAP #35A*57

N/F
MICHELLE BAILEY
INSTR. #201306240000132550
D.B. 235, PG. 234(PLAT)
TAX ID #300949000
MAP #35A*56

N/F
EDNA C. HICKS
D.B. 8, PG. 747
D.B. 235, PG. 234(PLAT)
TAX ID #301855500
MAP #35A*55

N/F
SANDRA DELOIS HARRIS WIGGINS
INSTR. #201402240000029230
D.B. 235, PG. 234(PLAT)
TAX ID #3017760225
MAP #35A*54

PROSPECT ROAD
PROSPECT ROAD (VARIABLE WIDTH R/W)

007
N/F
CHARLES B. LAWRENCE
D.B. 232, PG. 315
P.B. 1, PG. 97
TAX ID #302517000
MAP #35A*53

N/F
LEWIS E. PARKER
& JUANITA PARKER
D.B. 131, PG. 753
P.B. 1, PG. 97
TAX ID #302933000
MAP #35A*52

NORTH

EXIST. R/W
PROP. DITCH
PROP. 5' CONC. SIDEWALK
APPROX. TOE OF FILL
PROP. PERMANENT DRAINAGE EASEMENT
EXISTING 7.5' SEWER EASEMENT (P.C. 3, SL. 51A)
PK NAIL #602
N: 3,436,593.124
E:12,055,712.000
ELEV:23.30
31+00
32+00
33+00
34+00
35+00
36+00
N67°23'07"E 1861.66'
PORTSMOUTH BLVD.
PORTSMOUTH BLVD. SIDEWALK CONSTR. ℄
MILL AND VARIABLE DEPTH OVERLAY TO EXISTING CROWN LINE ALONG LIMITS OF PROPOSED CURB INSTALLATION
END PHASE II CONSTRUCTION
BEGIN PHASE III CONSTRUCTION
STA. 35+75.00
24.33TC
24.60TC
24.39P/ME
24.36TC
24.37P/ME
24.24TC
24.35TC
24.38TC
24.38P/ME
24.52TC
24.46P/ME
24.60TC
24.67TC
24.47P/ME
24.43TC
24.47TC
24.41P/ME

MATCHLINE STATION 37+00 CONST. ℄ – SEE SHEET 5B

GRAPHIC SCALE IN FEET
0 12.5 25 50

No.	REVISIONS	DATE	BY

Kimley»Horn
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LICENSED PROFESSIONAL

KHA PROJECT	117019046
DATE	06/08/2018
SCALE	AS SHOWN
DESIGNED BY	APF
DRAWN BY	KMP
CHECKED BY	WFM
DATE:	

GRADING AND DRAINAGE PLAN

PORTSMOUTH BOULEVARD
SIDEWALK IMPROVEMENTS
PREPARED FOR
SUFFOLK
VIRGINIA

SUFFOLK

SHEET NUMBER
4B

Plotted By: Forthing, Andrew Sheet Set: Portsmouth Blvd Sidewalk Layout: 5 EXISTING CONDITIONS June 08, 2018 11:37:18am \\kimley-horn.com\AT_VAB\VAB_RDWY\117019046-Portsmouth Blvd Sidewalk\Design\PlanSheets\EXISTING CONDITIONS.dwg
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MATCHLINE STATION 37+00 CONST. ℄ – SEE SHEET 4

N/F
JAMES A. HAYES, III
& SHOSHAWNA WANIA HAYES
INSTR. #201502030000172 50
P.B. 1, PG. 97
TAX ID #303350000
MAP #35A*51

N/F
WEBSTER L. PARKER, SR.
& RHONDA B. PARKER
INSTR. #160003321
INSTR. #
P.B. 1, PG. 97
TAX ID #300697000
MAP #35A*52A

N/F
HELEN I. COSTON, ET ALS
INSTR. #400140840(PER CITY)
P.B. 1, PG. 97
TAX ID #304070000
MAP #35A*50A

N/F
AMY MICHELLE LOCKHART
INSTR. #020008305
P.B. 1, PG. 97
TAX ID #300444000
MAP #35A*50

N/F
EVE B. WINIFRED PARKER
INSTR. #150070043
P.B. 1, PG. 97
TAX ID #303016000
MAP #35A*49

N/F
LEON W. TURNER, III
INSTR. #201310170002172 60
P.B. 1, PG. 97
TAX ID #300729000
MAP #35A*48

N/F
HERITAGE ACRES X SUFFOLK
INSTR. #150063498
INSTR. #150062360(PLAT)
TAX ID #306002887
MAP #35*111*A

EXISTING 7.5' SEWER EASEMENT (P.C. 3, SL. 51A)

EXIST. R/W

10"PVC

38+00 39+00 40+00 41+00 42+00 43+00

N67°23'07"E 1861.66'

PORTSMOUTH BLVD. SIDEWALK CONSTR. ℄

PORTSMOUTH BLVD.

S 75°13'53" W 684.41'
SURVEY BASELINE

MATCHLINE STATION 44+00 CONST. ℄ – SEE BELOW

MATCHLINE STATION 44+00 CONST. ℄ – SEE ABOVE

N/F
HERITAGE VA INVESTORS LLC
INSTR. #201208150001577 90
INSTR. #150062360(PLAT)
TAX ID #300629000
MAP #35*111

N/F
C&W LESTER PROPERTIES, LLC
INSTR. #201502190000255 30
D.B. 41, PG. 560(PLAT)
TAX ID #302534290
MAP #35A*1A

N/F
SDW JASON 18 LLC
& SDW DAVID 18 LLC
INSTR. #201504030000518 10
INSTR. #201408210001387 30(PLAT)
INSTR. #201501210000097 50(PLAT)
D.B. 345, PG. 614(PLAT)
TAX ID #301871060
MAP #35A*1

EXISTING VARIABLE WIDTH PUBLIC STORM WATER MANAGEMENT FACILITY MAINTENANCE EASEMENT (INST.# 140138730)

EXISTING VARIABLE WIDTH PUBLIC INGRESS/EGRESS EASEMENT (INST.# 140138730)

PIN & CAP #600
N: 3,437,100.875
E: 12,056,900.831
ELEV=24.02

NANSEMOND PARKWAY
NANSEMOND PARKWAY
(ROUTE 337)
(VARIABLE WIDTH R/W)

EXIST. R/W

45+00 46+00 47+00 48+00 49+00

EP: 49+00.01

N67°23'07"E 1861.66'

PORTSMOUTH BLVD.

PORTSMOUTH BLVD. SIDEWALK CONSTR. ℄

TBM "A"
CUT SQ.
ON CONC.
ELEV=24.03

S 57°41'30" W 623.57'
SURVEY BASELINE

PORTSMOUTH BOULEVARD
(U.S. ROUTE 58 / 460)
(VARIABLE WIDTH R/W)

GRAPHIC SCALE IN FEET
0 12.5 25 50

No.	REVISIONS	DATE	BY

Kimley»Horn
4525 MAIN STREET, SUITE 1000, VIRGINIA BEACH, VA 23462
PHONE: 757-213-8600 FAX: 757-213-8601
WWW.KIMLEY-HORN.COM

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LICENSED PROFESSIONAL

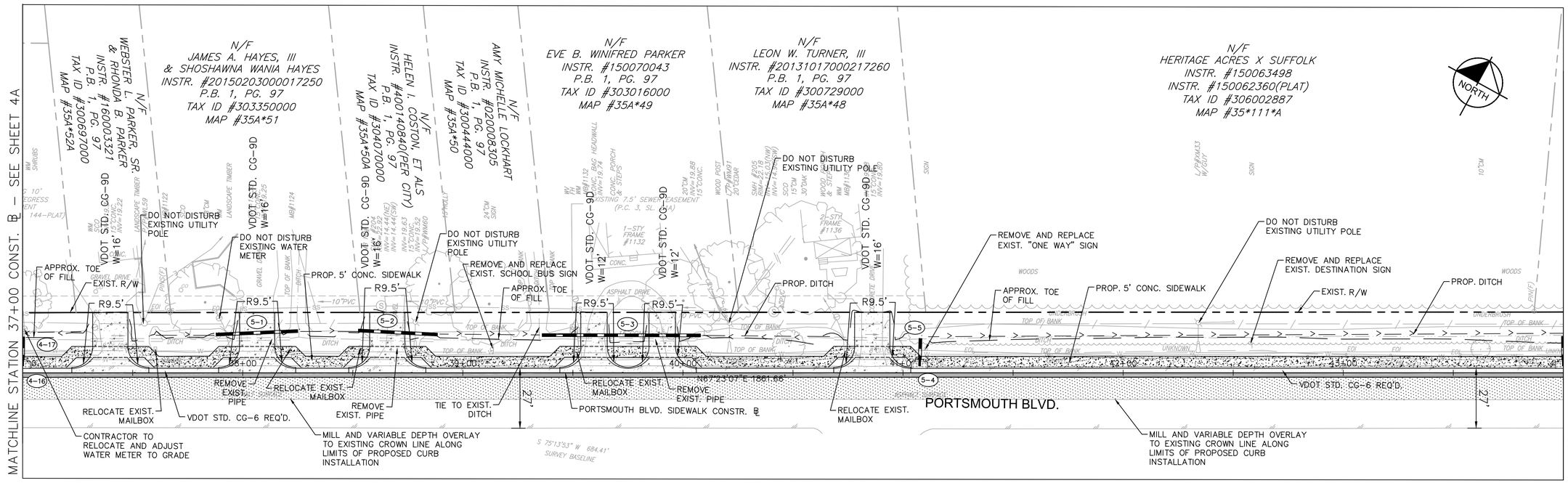
DATE:

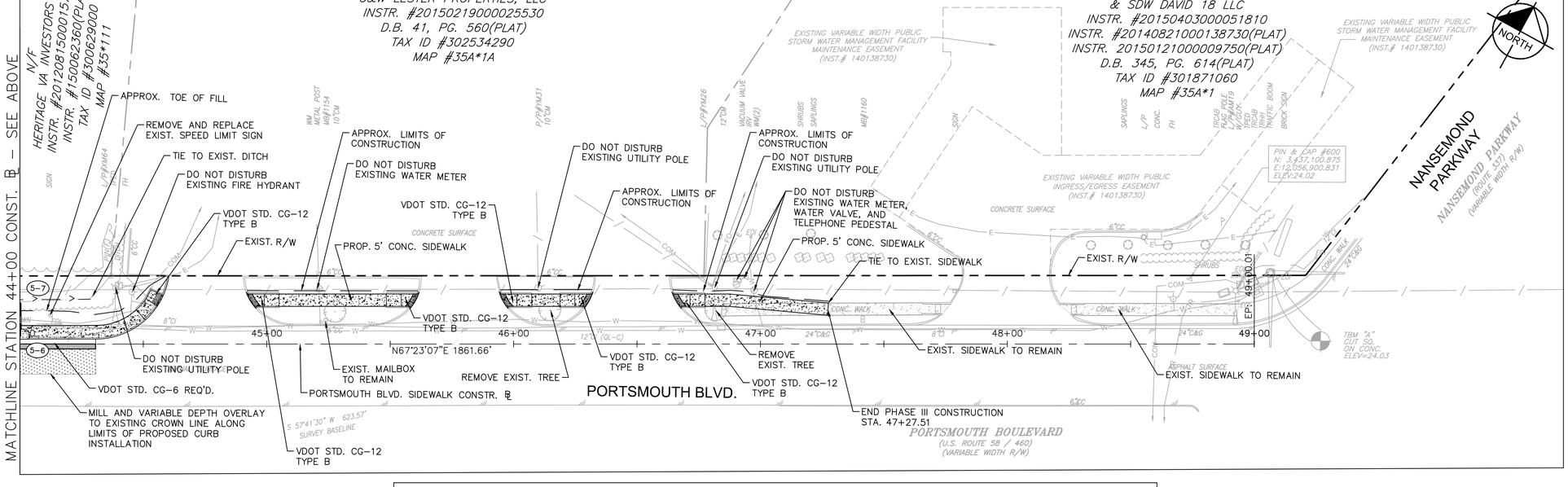
KHA PROJECT 117019046
DATE 06/08/2018
SCALE AS SHOWN
DESIGNED BY APF
DRAWN BY KMP
CHECKED BY WFM

EXISTING CONDITIONS

PORTSMOUTH BOULEVARD
SIDEWALK IMPROVEMENTS
PREPARED FOR
SUFFOLK
VIRGINIA
SUFFOLK

SHEET NUMBER
5





LEGEND

- CUT LINE
- FILL LINE
- PROP. DITCH
- DENOTES PROP. PERMANENT EASEMENT
- DENOTES PROP. TEMPORARY EASEMENT
- DENOTES PROPOSED CONCRETE SIDEWALK
- DENOTES PROPOSED MILL AND OVERLAY
- DENOTES PROPOSED FULL DEPTH PAVEMENT

GRAPHIC SCALE IN FEET
0 12.5 25 50

No.	REVISIONS	DATE	BY

Kimley»Horn
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DATE:

KHA PROJECT 117019046	
DATE	06/08/2018
SCALE	AS SHOWN
DESIGNED BY	APF
DRAWN BY	KMP
CHECKED BY	WFM

ROADWAY PLAN

PORTSMOUTH BOULEVARD
SIDEWALK IMPROVEMENTS
PREPARED FOR
SUFFOLK

SUFFOLK VIRGINIA

SHEET NUMBER
5A

Plotted By:Forthing, Andrew Sheet Set:Portsmouth Blvd Sidewalk Layout:5A ROADWAY PLAN June 08, 2018 11:37:41am \\kimley-horn.com\AT_VAB\VAB_RDWY\117019046-Portsmouth Blvd Sidewalk\Design\PlanSheets\ROADWAY PLANS.dwg
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MATCHLINE STATION 37+00 CONST. ℄ – SEE SHEET 4B

N/F
JAMES A. HAYES, III
& SHOSHAWNA WANIA HAYES
INSTR. #20150203000017250
P.B. 1, PG. 97
TAX ID #303350000
MAP #35A*51

N/F
WEBSTER L. PARKER, SR.
& RHONDA B. PARKER
INSTR. #160003321
P.B. 1, PG. 97
TAX ID #300697000
MAP #35A*52A

N/F
HELEN I. COSTON, ET ALS
INSTR. #400140840(PER CITY)
P.B. 1, PG. 97
TAX ID #304070000
MAP #35A*50A

N/F
AMY MICHELLE LOCKHART
INSTR. #020008305
P.B. 1, PG. 97
TAX ID #304444000
MAP #35A*50

N/F
EVE B. WINIFRED PARKER
INSTR. #150070043
P.B. 1, PG. 97
TAX ID #303016000
MAP #35A*49

N/F
LEON W. TURNER, III
INSTR. #20131017000217260
P.B. 1, PG. 97
TAX ID #300729000
MAP #35A*48

N/F
HERITAGE ACRES X SUFFOLK
INSTR. #150063498
INSTR. #150062360(PLAT)
TAX ID #306002887
MAP #35*111*A

NORTH

APPROX. TOE OF FILL
EXIST. R/W
PROP. 5' CONC. SIDEWALK
APPROX. TOE OF FILL
PROP. DITCH
PROP. 5' CONC. SIDEWALK
EXIST. R/W
PROP. DITCH

36+00 37+00 38+00 39+00 40+00 41+00 42+00 43+00

24.39TC 24.38P/ME 24.43P/ME 24.45P/ME 24.63TC 24.38P/ME 24.42TC 24.37TC 24.42P/ME 24.53P/ME 24.63TC 24.79TC 24.56P/ME 24.69TC 24.48TC 24.49P/ME

N67°23'07"E 1861.66'

PORTSMOUTH BLVD. SIDEWALK CONSTR. ℄

PORTSMOUTH BLVD.

MILL AND VARIABLE DEPTH OVERLAY TO EXISTING CROWN LINE ALONG LIMITS OF PROPOSED CURB INSTALLATION

S 75°13'53" W 684.41'
SURVEY BASELINE

MILL AND VARIABLE DEPTH OVERLAY TO EXISTING CROWN LINE ALONG LIMITS OF PROPOSED CURB INSTALLATION

MATCHLINE STATION 44+00 CONST. ℄ – SEE BELOW

MATCHLINE STATION 44+00 CONST. ℄ – SEE ABOVE

HERITAGE VA INVESTORS LLC
INSTR. #20120815000157790
INSTR. #150062360(PLAT)
TAX ID #300629000
MAP #35*111

N/F
C&W LESTER PROPERTIES, LLC
INSTR. #20150219000025530
D.B. 41, PG. 560(PLAT)
TAX ID #302534290
MAP #35A*1A

N/F
SDW JASON 18 LLC
& SDW DAVID 18 LLC
INSTR. #20150403000051810
INSTR. #20140821000138730(PLAT)
INSTR. 20150121000009750(PLAT)
D.B. 345, PG. 614(PLAT)
TAX ID #301871060
MAP #35A*1

NORTH

APPROX. LIMITS OF CONSTRUCTION
EXIST. R/W
PROP. 5' CONC. SIDEWALK
APPROX. LIMITS OF CONSTRUCTION
PROP. 5' CONC. SIDEWALK
EXIST. R/W

45+00 46+00 47+00 48+00 49+00

N67°23'07"E 1861.66'

PORTSMOUTH BLVD. SIDEWALK CONSTR. ℄

PORTSMOUTH BLVD.

END PHASE III CONSTRUCTION
STA. 47+27.51

MILL AND VARIABLE DEPTH OVERLAY TO EXISTING CROWN LINE ALONG LIMITS OF PROPOSED CURB INSTALLATION

S 57°41'30" W 623.57'
SURVEY BASELINE

NANSEMOND PARKWAY
NANSEMOND PARKWAY (ROUTE 337) (VARIABLE WIDTH R/W)

PORTSMOUTH BOULEVARD
(U.S. ROUTE 58 / 460)
(VARIABLE WIDTH R/W)

PIN & CAP #600
N: 3,437,100.875
E: 12,056,900.831
ELEV: 24.02

TBM "A"
CUT SQ. ON CONC.
ELEV=24.03

GRAPHIC SCALE IN FEET
0 12.5 25 50

No.	REVISIONS	DATE	BY

Kimley»Horn
4525 MAIN STREET, SUITE 1000, VIRGINIA BEACH, VA 23462
PHONE: 757-213-8600 FAX: 757-213-8601
WWW.KIMLEY-HORN.COM

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LICENSED PROFESSIONAL

KHA PROJECT	117019046
DATE	06/08/2018
SCALE	AS SHOWN
DESIGNED BY	APF
DRAWN BY	KMP
CHECKED BY	WFM
DATE:	

GRADING AND DRAINAGE PLAN

PORTSMOUTH BOULEVARD SIDEWALK IMPROVEMENTS
PREPARED FOR SUFFOLK
SUFFOLK VIRGINIA

SHEET NUMBER
5B

Plotted By:Farthing, Andrew Sheet Set:Portsmouth Blvd Sidewalk Layout:XS-1 June 08, 2018 11:38:36am \\kimley-horn.com\AT_VAB\VAB_RDWY\117019046-Portsmouth Blvd Sidewalk\Design\PlanSheets\CROSS SECTIONS.dwg

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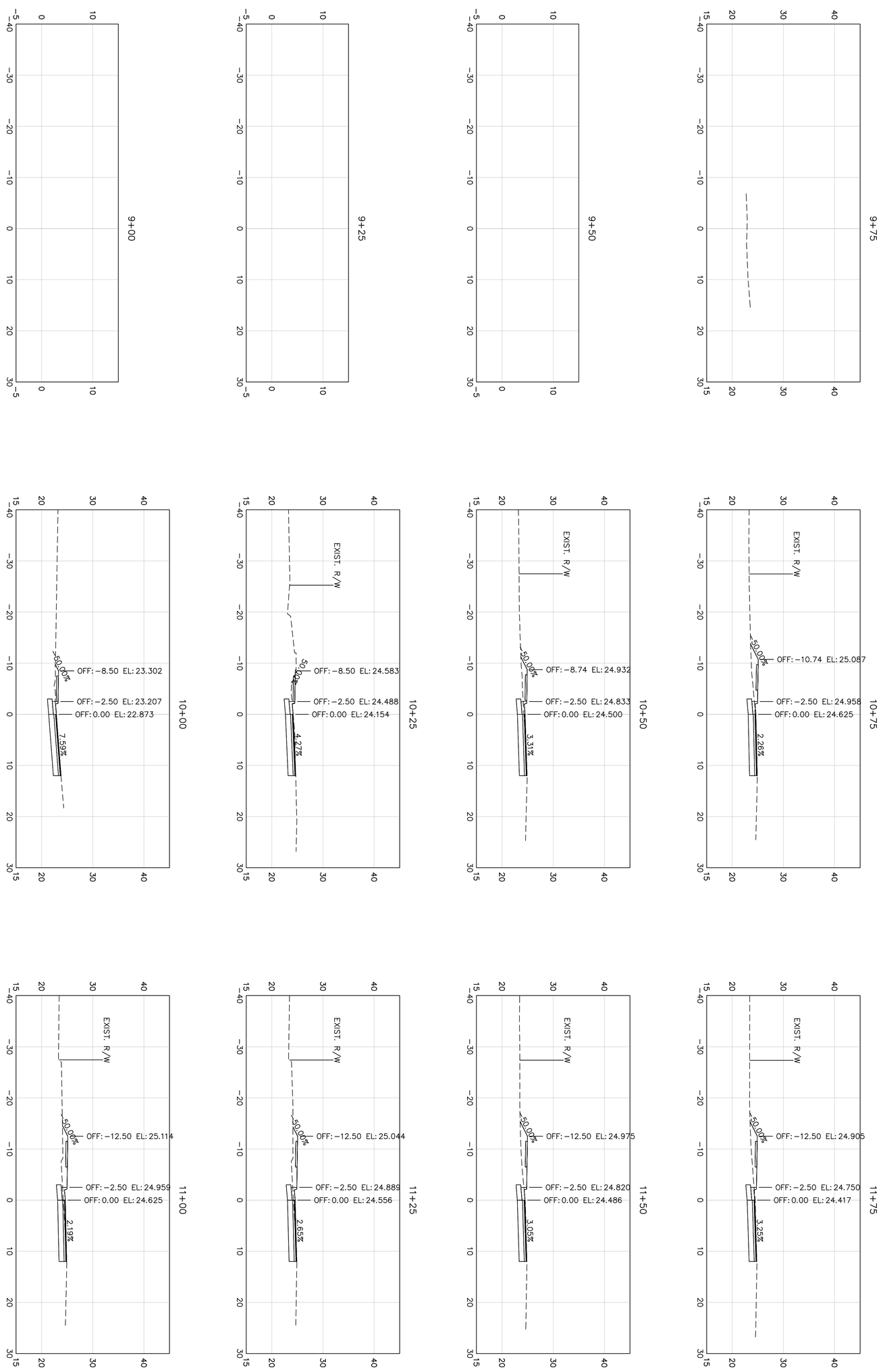

SHEET NUMBER
XS-1

PORTSMOUTH BOULEVARD
SIDEWALK IMPROVEMENTS
PREPARED FOR
SUFFOLK
SUFFOLK VIRGINIA

CROSS SECTIONS

KHA PROJECT	117019046
DATE	06/08/2018
SCALE	AS SHOWN
DESIGNED BY	APF
DRAWN BY	KMP
CHECKED BY	WFM

LICENSED PROFESSIONAL
LIC PROF 1
VIRGINIA LICENSE NUMBER
LIC PROF 1 #
DATE: ———

Kimley»Horn
4525 MAIN STREET, SUITE 1000, VIRGINIA BEACH, VA 23462
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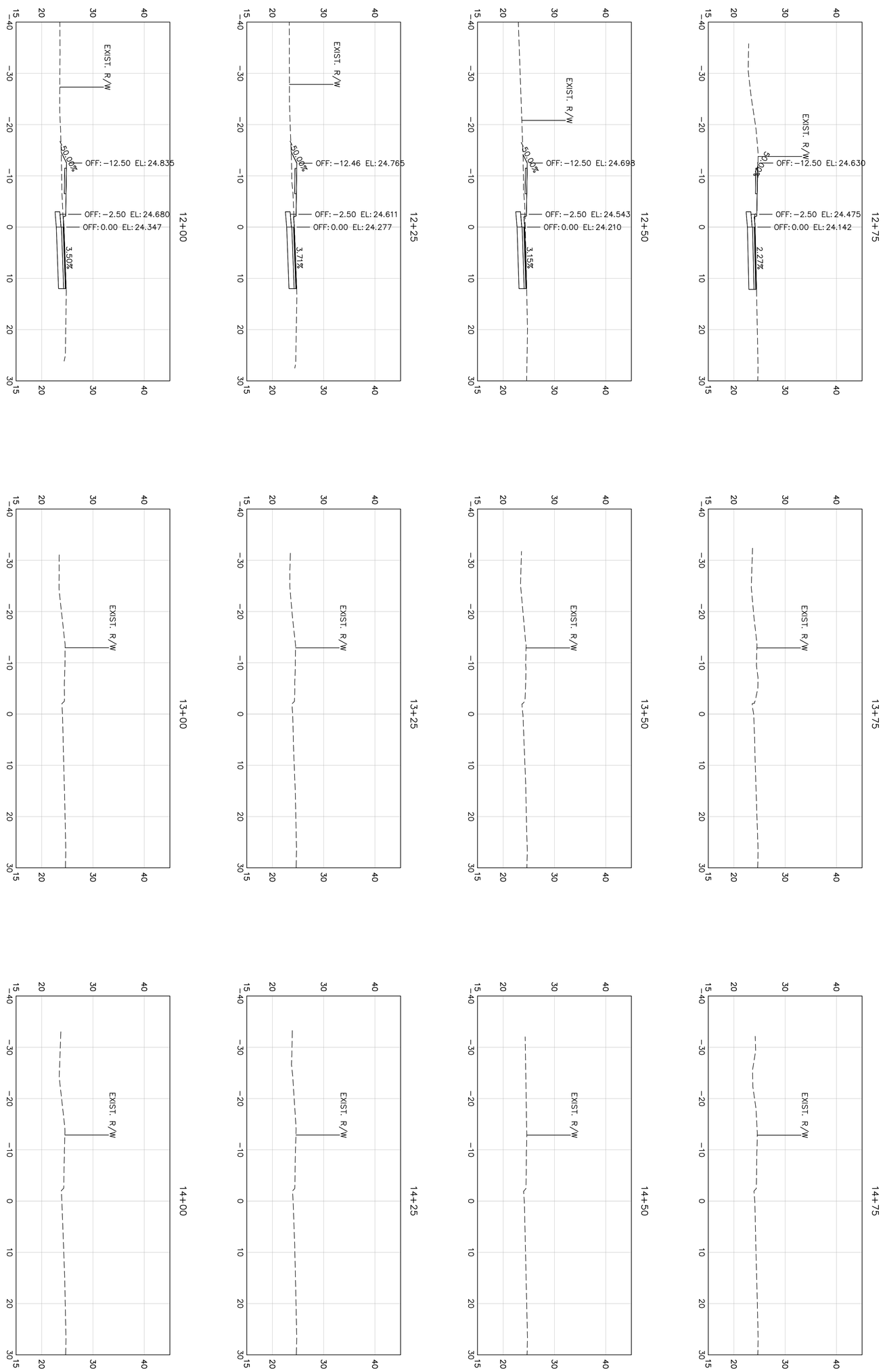

SHEET NUMBER XS-2

PORTSMOUTH BOULEVARD SIDEWALK IMPROVEMENTS
PREPARED FOR
SUFFOLK
SUFFOLK VIRGINIA

CROSS SECTIONS

KHA PROJECT	117019046
DATE	06/08/2018
SCALE	AS SHOWN
DESIGNED BY	APF
DRAWN BY	KMP
CHECKED BY	WFM

LICENSED PROFESSIONAL
LIC PROF 1
VIRGINIA LICENSE NUMBER
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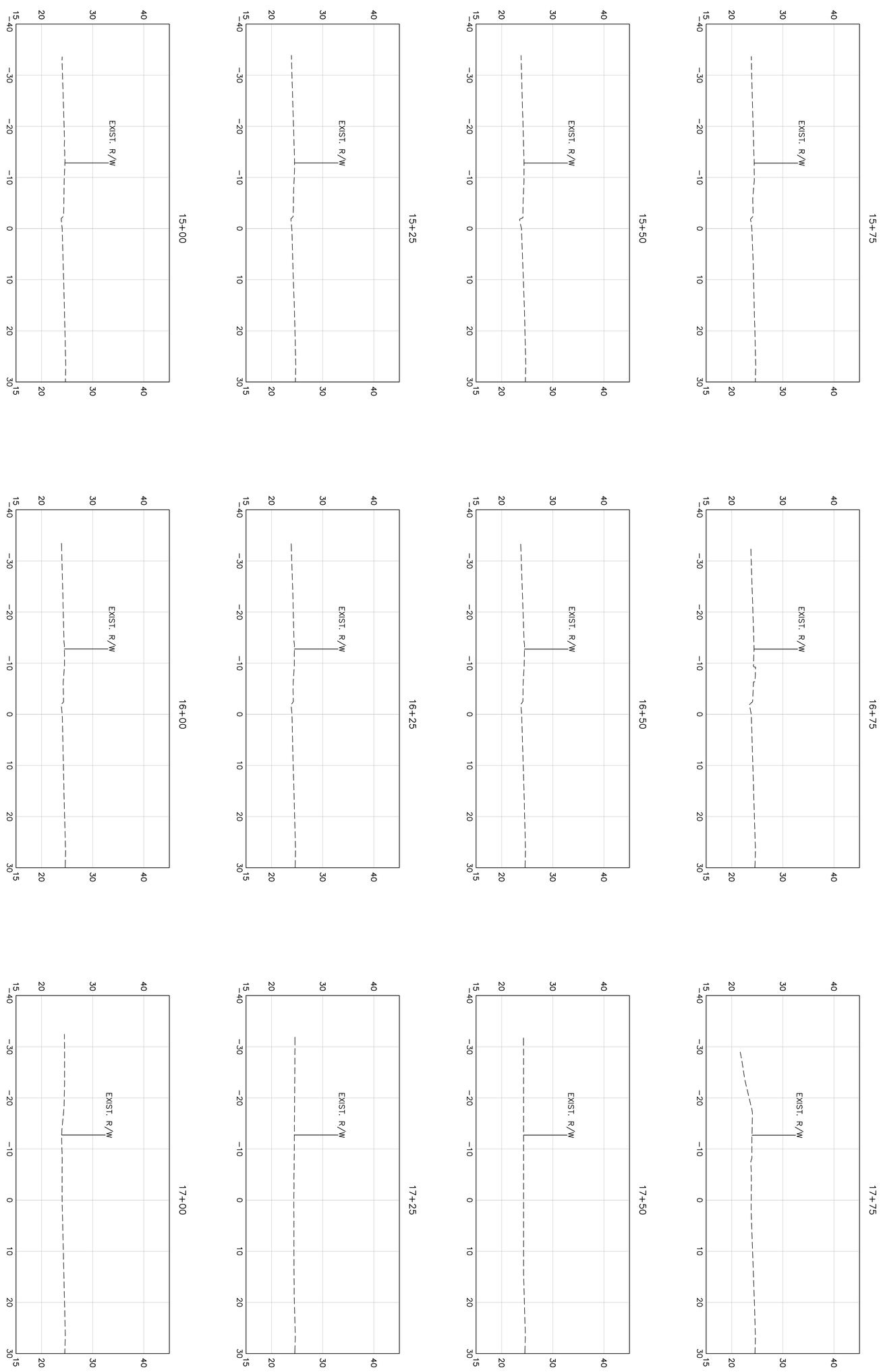

PORTSMOUTH BOULEVARD
SIDEWALK IMPROVEMENTS
PREPARED FOR
SUFFOLK

SUFFOLK VIRGINIA

CROSS SECTIONS

SHEET NUMBER
XS-3

KHA PROJECT	117019046
DATE	06/08/2018
SCALE	AS SHOWN
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DRAWN BY	KMP
CHECKED BY	WFM

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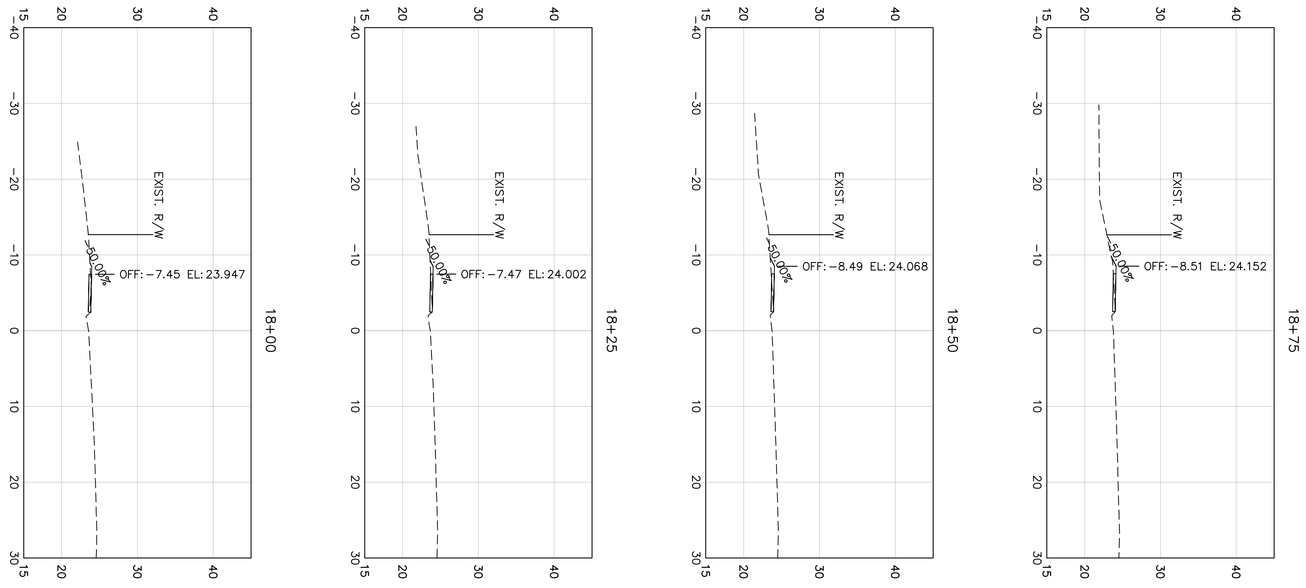

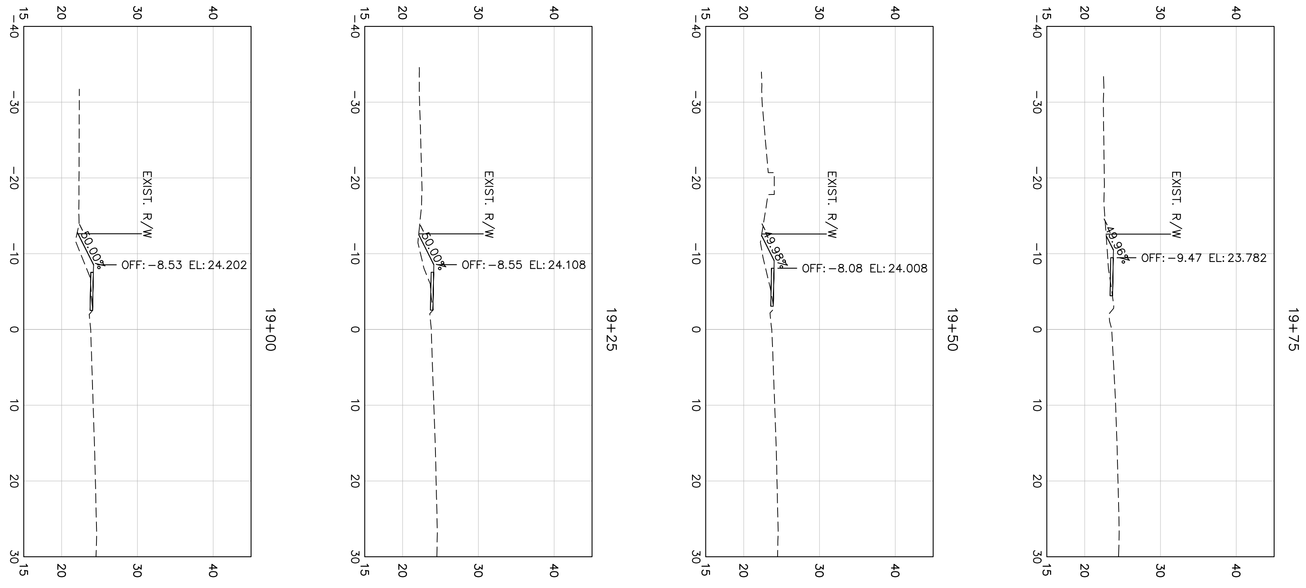

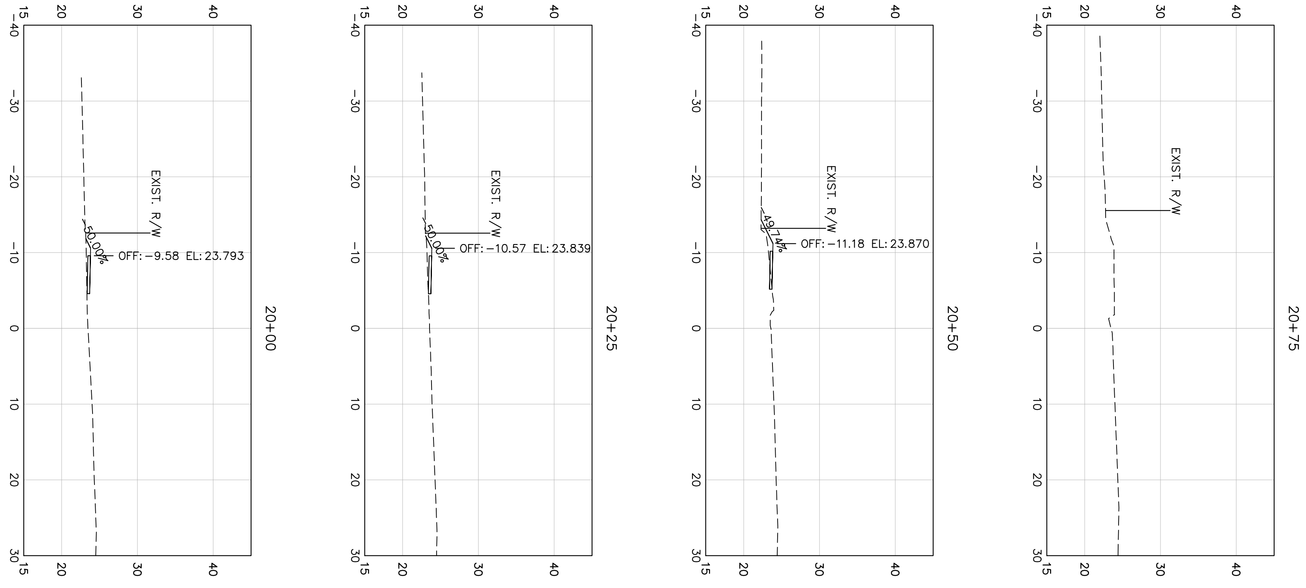

PORTSMOUTH BOULEVARD
SIDEWALK IMPROVEMENTS
PREPARED FOR
SUFFOLK

SUFFOLK VIRGINIA

CROSS SECTIONS

SHEET NUMBER
XS-4

KHA PROJECT	117019046
DATE	06/08/2018
SCALE	AS SHOWN
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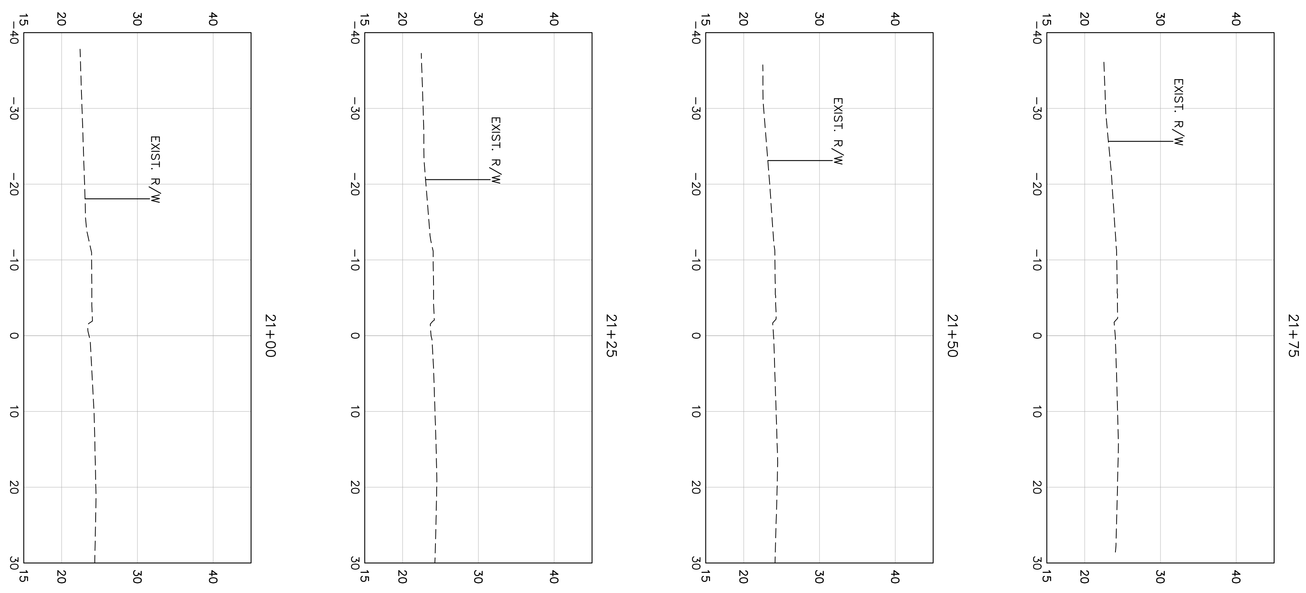

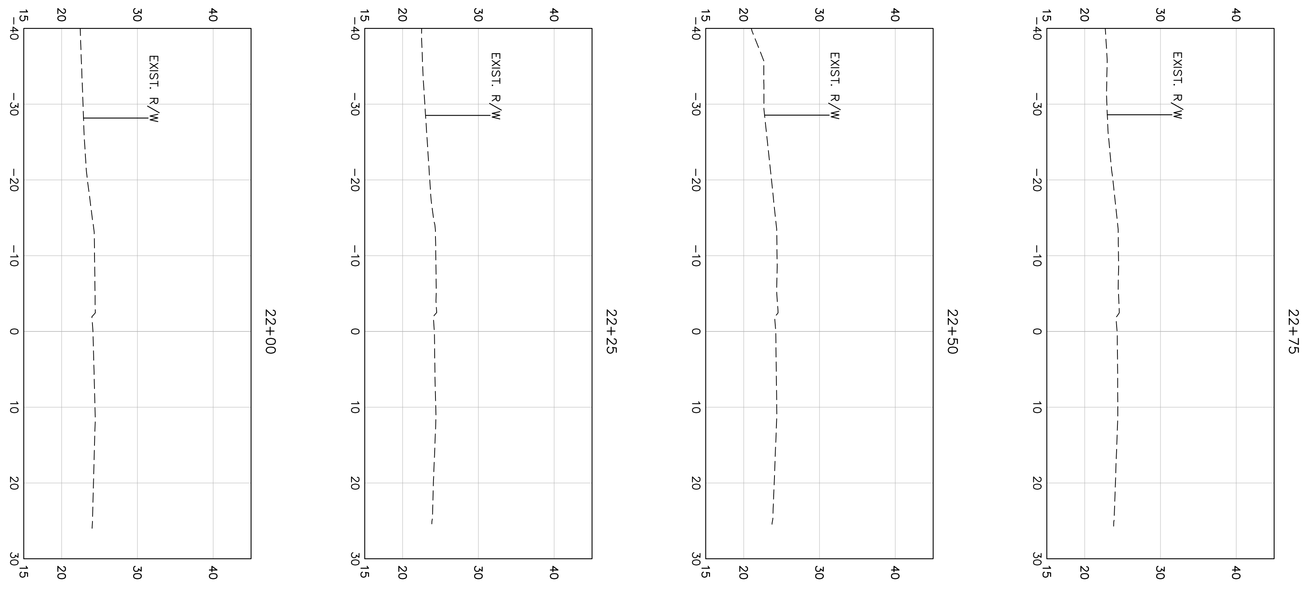

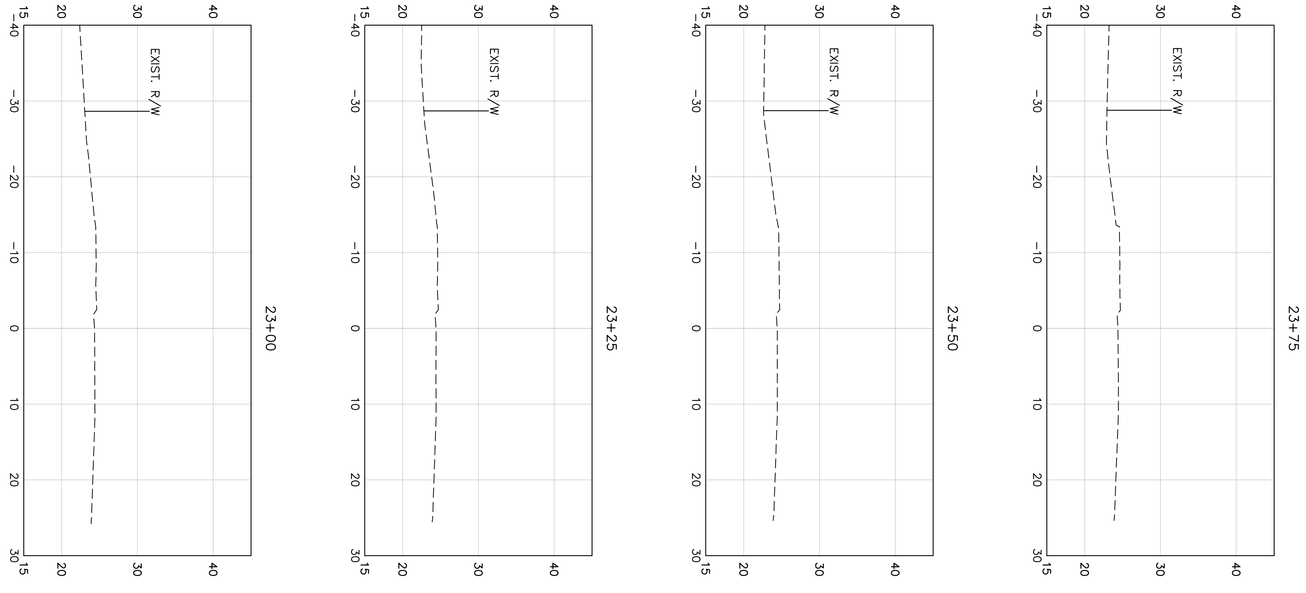

SHEET NUMBER
XS-5

PORTSMOUTH BOULEVARD
SIDEWALK IMPROVEMENTS
PREPARED FOR
SUFFOLK

SUFFOLK VIRGINIA

CROSS SECTIONS

KHA PROJECT 117019046
DATE 06/08/2018
SCALE AS SHOWN
DESIGNED BY APF
DRAWN BY KMP
CHECKED BY WFM

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LIC PROF 1
VIRGINIA LICENSE NUMBER
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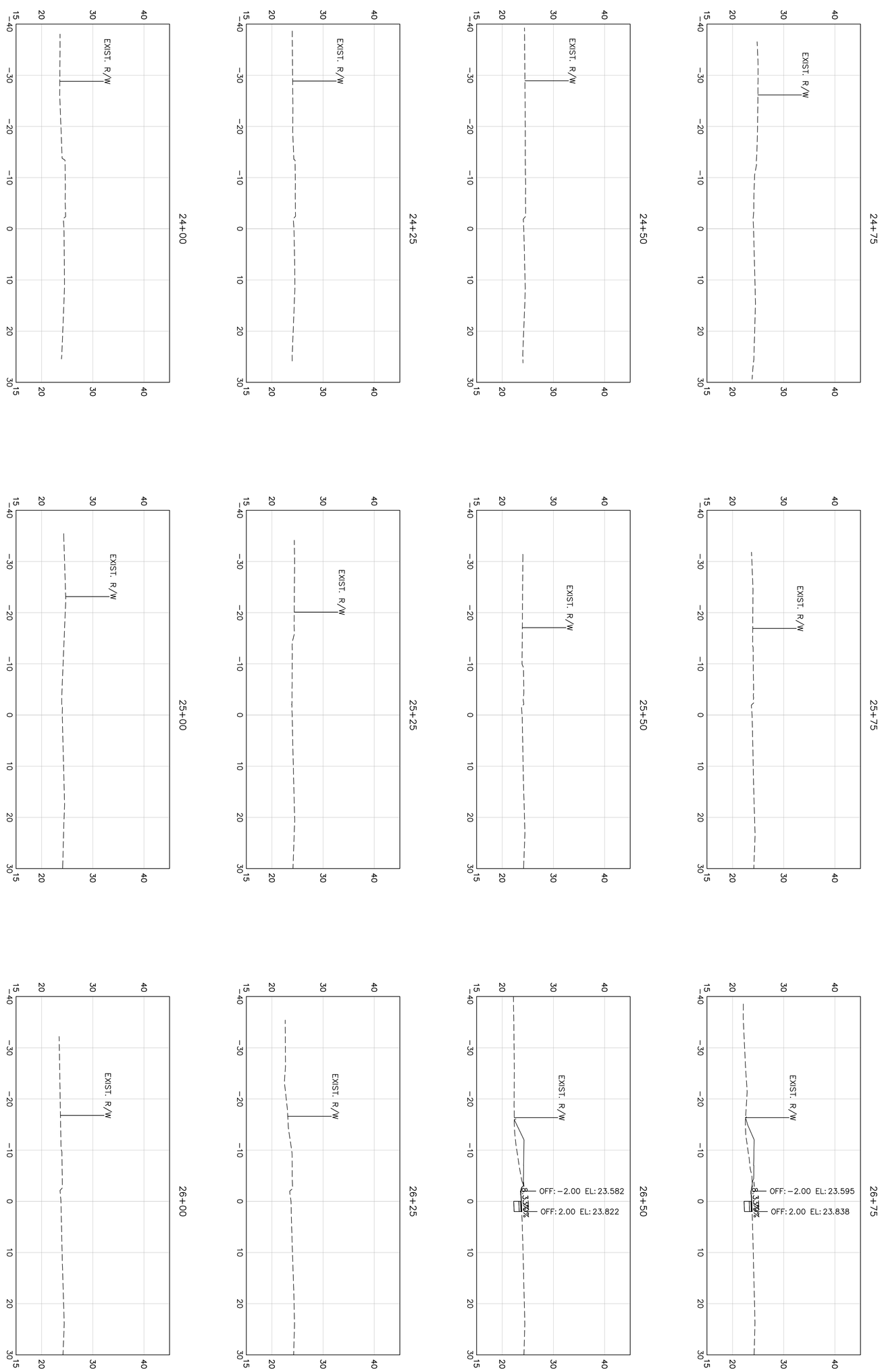

PORTSMOUTH BOULEVARD
SIDEWALK IMPROVEMENTS
PREPARED FOR
SUFFOLK

SUFFOLK VIRGINIA

CROSS SECTIONS

SHEET NUMBER XS-6

KHA PROJECT 117019046
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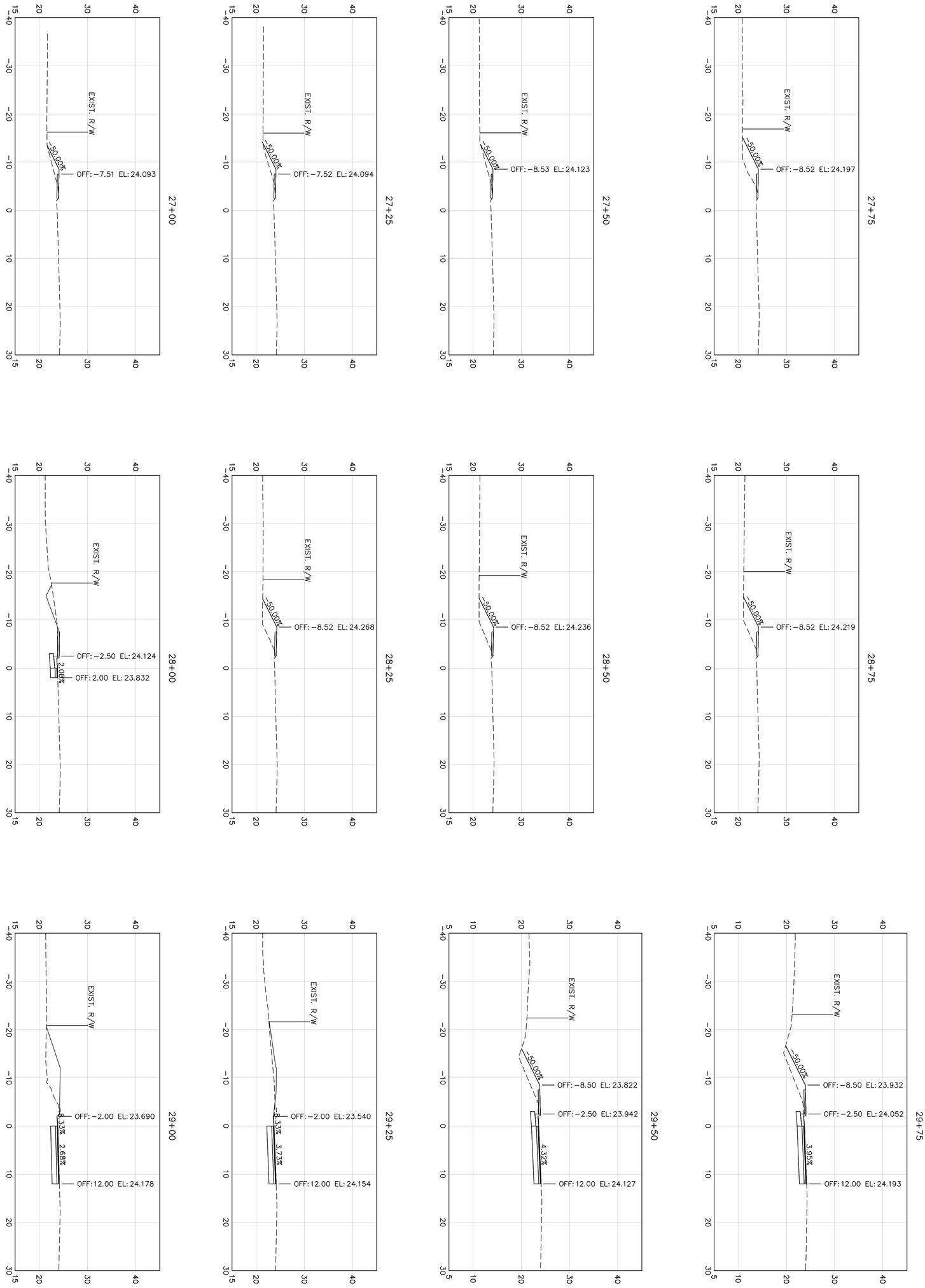

SHEET NUMBER XS-7

PORTSMOUTH BOULEVARD
SIDEWALK IMPROVEMENTS
PREPARED FOR
SUFFOLK

SUFFOLK VIRGINIA

CROSS SECTIONS

KHA PROJECT	117019046
DATE	06/08/2018
SCALE	AS SHOWN
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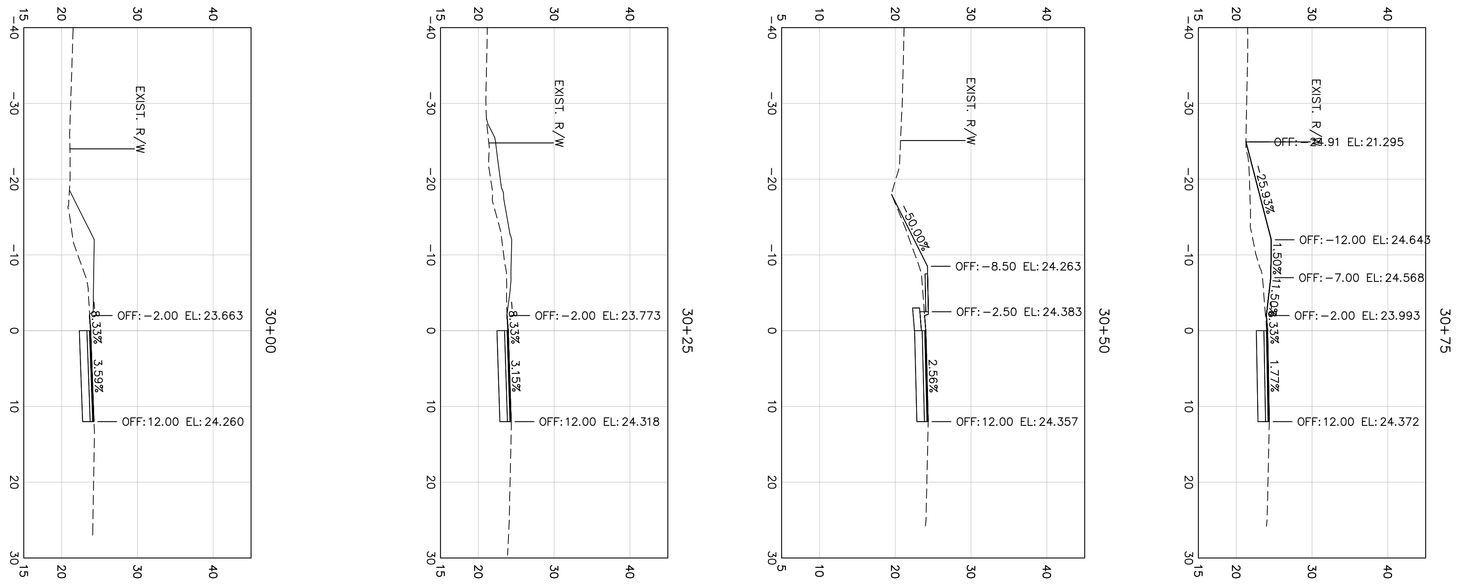

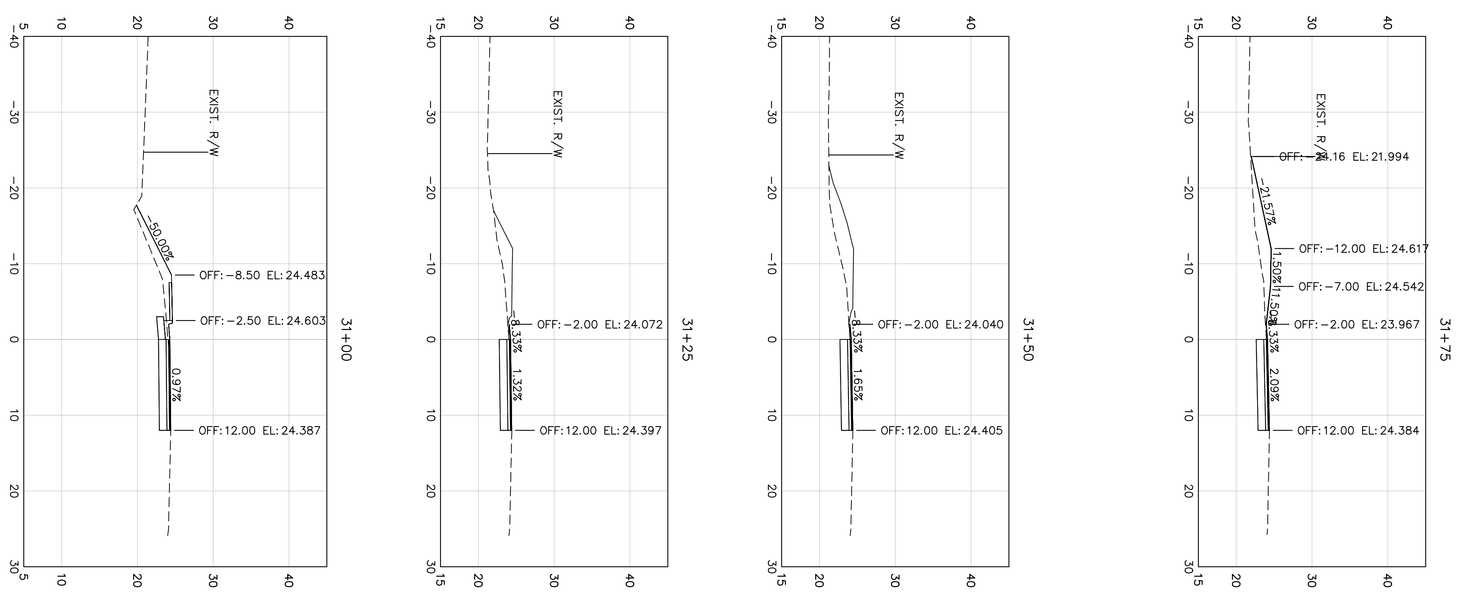

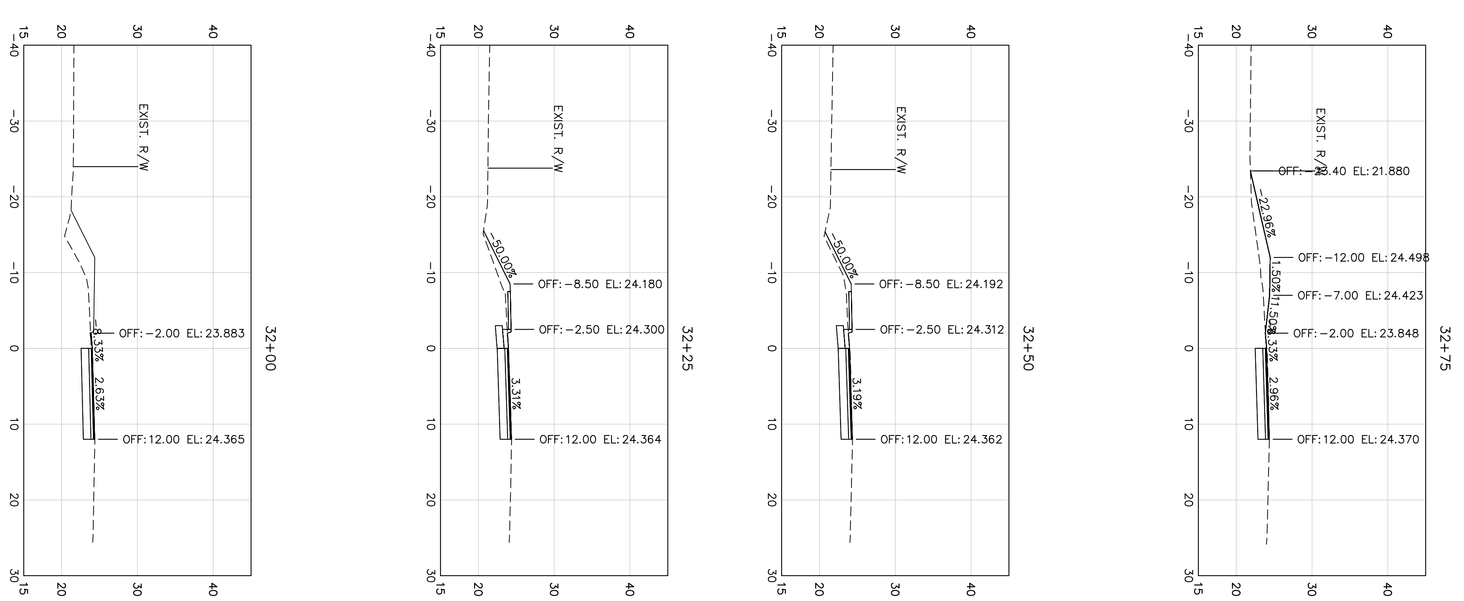

SHEET NUMBER XS-8

PORTSMOUTH BOULEVARD
SIDEWALK IMPROVEMENTS
PREPARED FOR
SUFFOLK

SUFFOLK VIRGINIA

CROSS SECTIONS

KHA PROJECT	117019046
DATE	06/08/2018
SCALE	AS SHOWN
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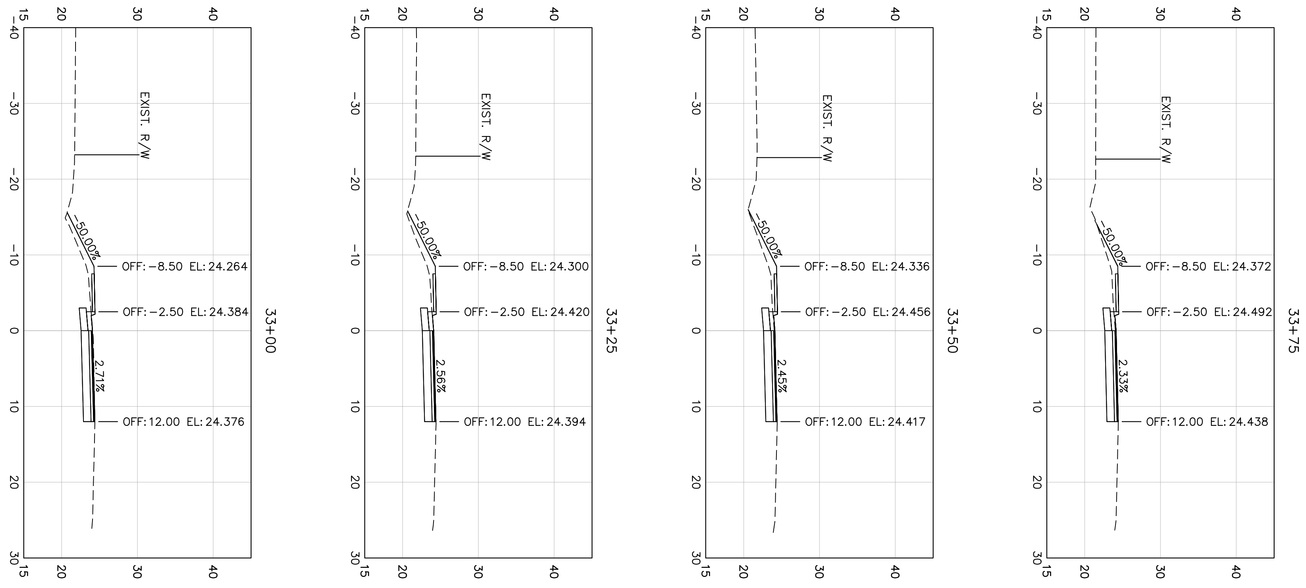

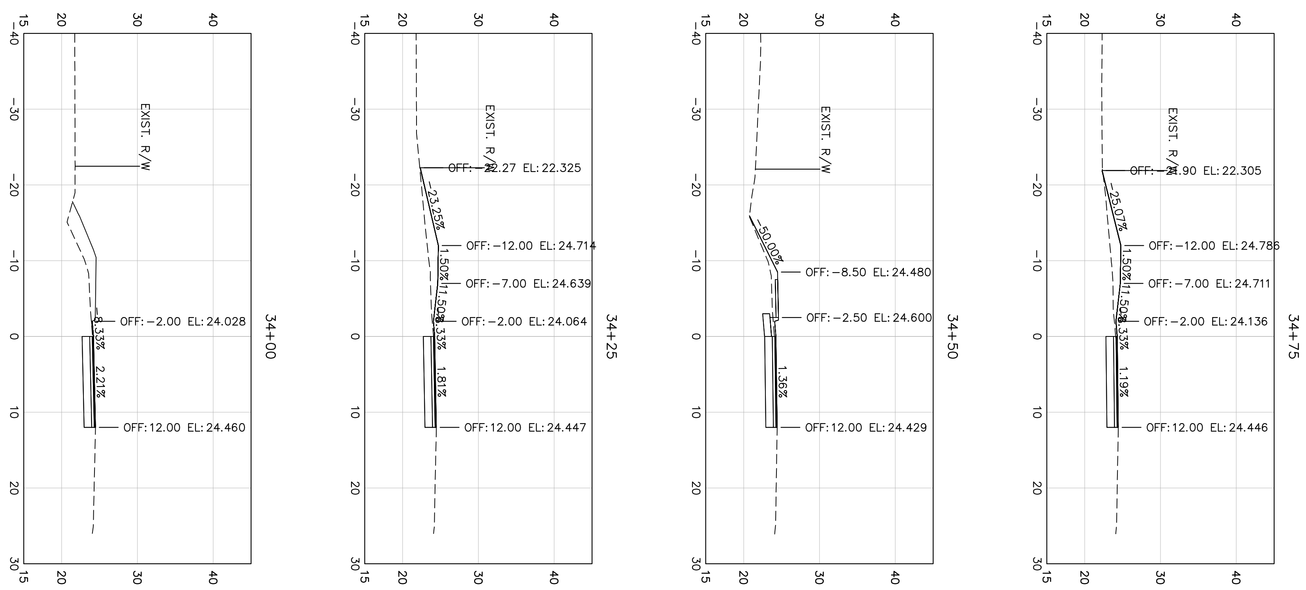

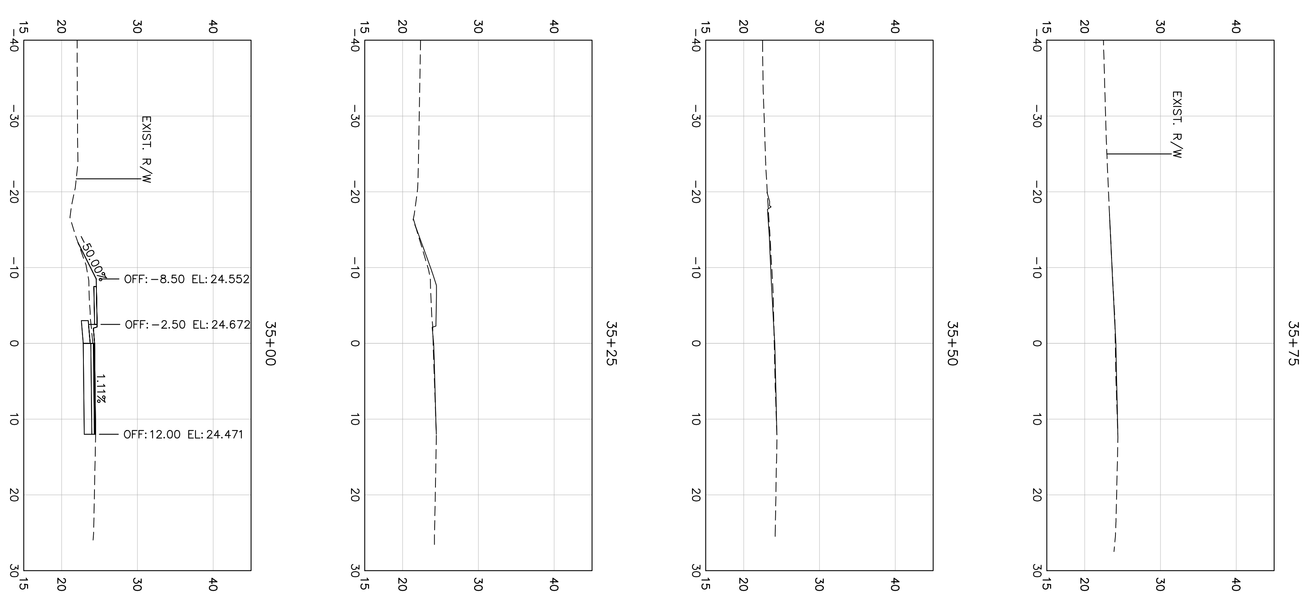

SHEET NUMBER XS-9

PORTSMOUTH BOULEVARD
SIDEWALK IMPROVEMENTS
PREPARED FOR
SUFFOLK
SUFFOLK VIRGINIA

CROSS SECTIONS

KHA PROJECT	117019046
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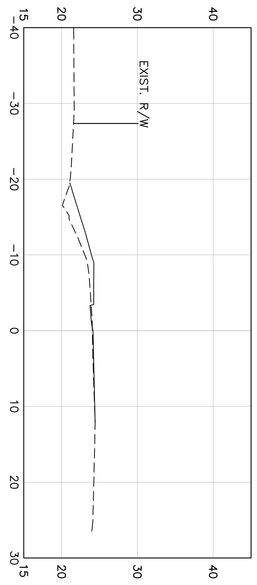

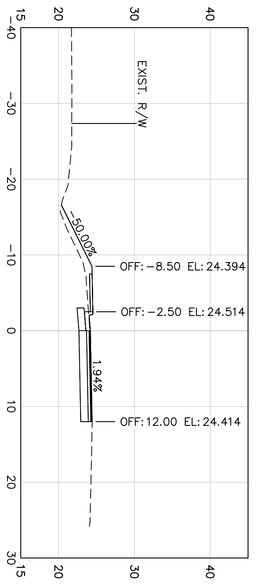

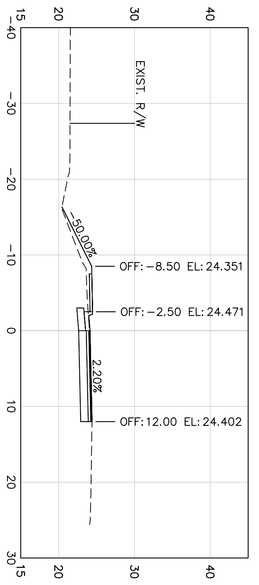

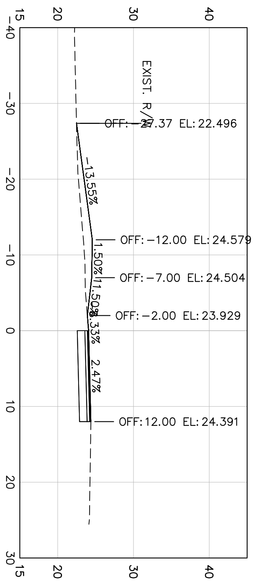

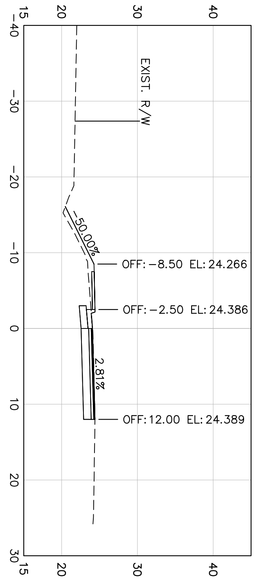

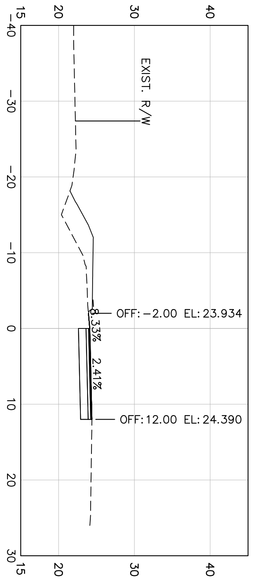

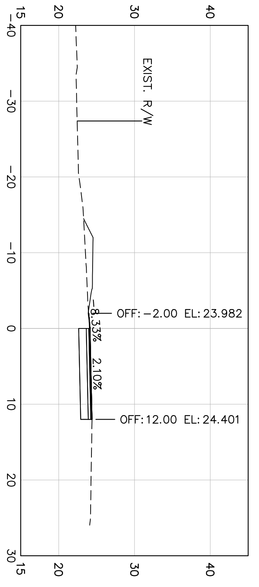

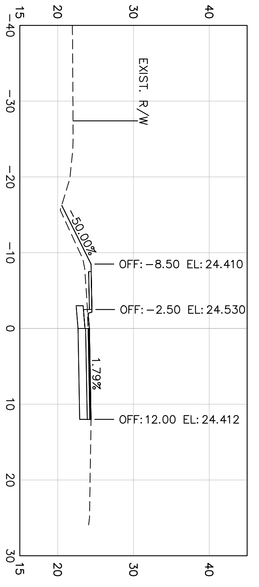

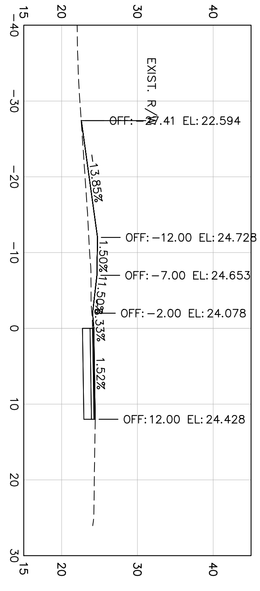

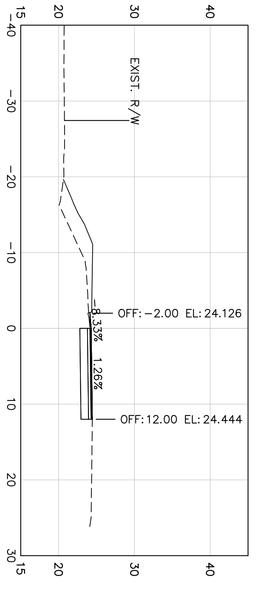

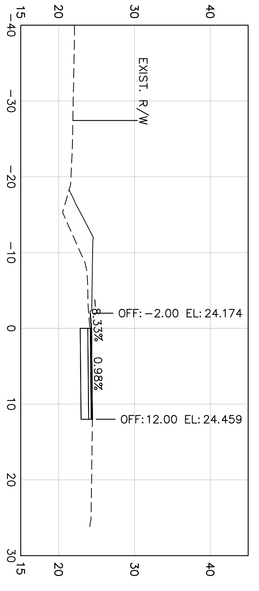

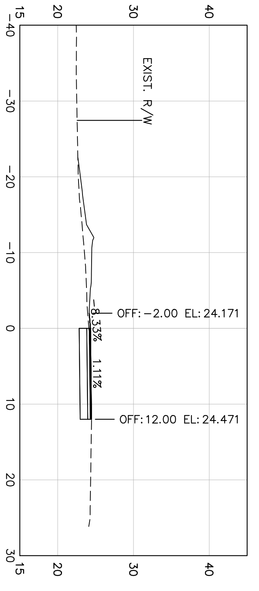

XS-10
SHEET NUMBER

PORTSMOUTH BOULEVARD
SIDEWALK IMPROVEMENTS
PREPARED FOR
SUFFOLK
SUFFOLK VIRGINIA

CROSS SECTIONS

KHA PROJECT	117019046
DATE	06/08/2018
SCALE	AS SHOWN
DESIGNED BY	APF
DRAWN BY	KMP
CHECKED BY	WFM

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LIC PROF 1
VIRGINIA LICENSE NUMBER
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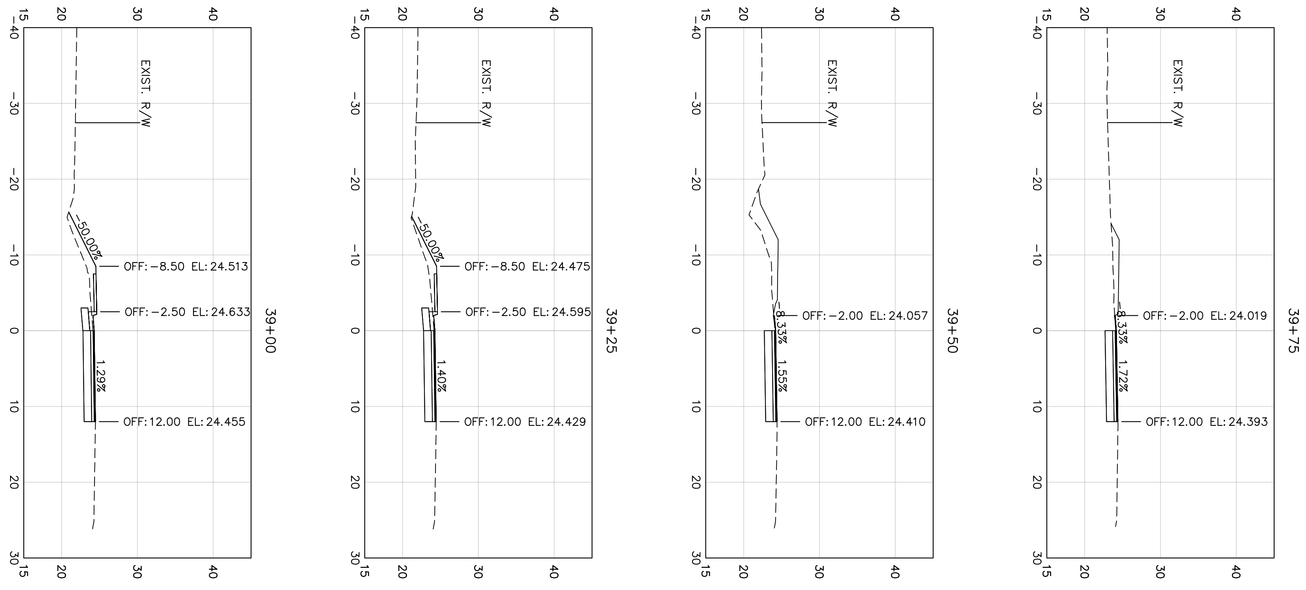

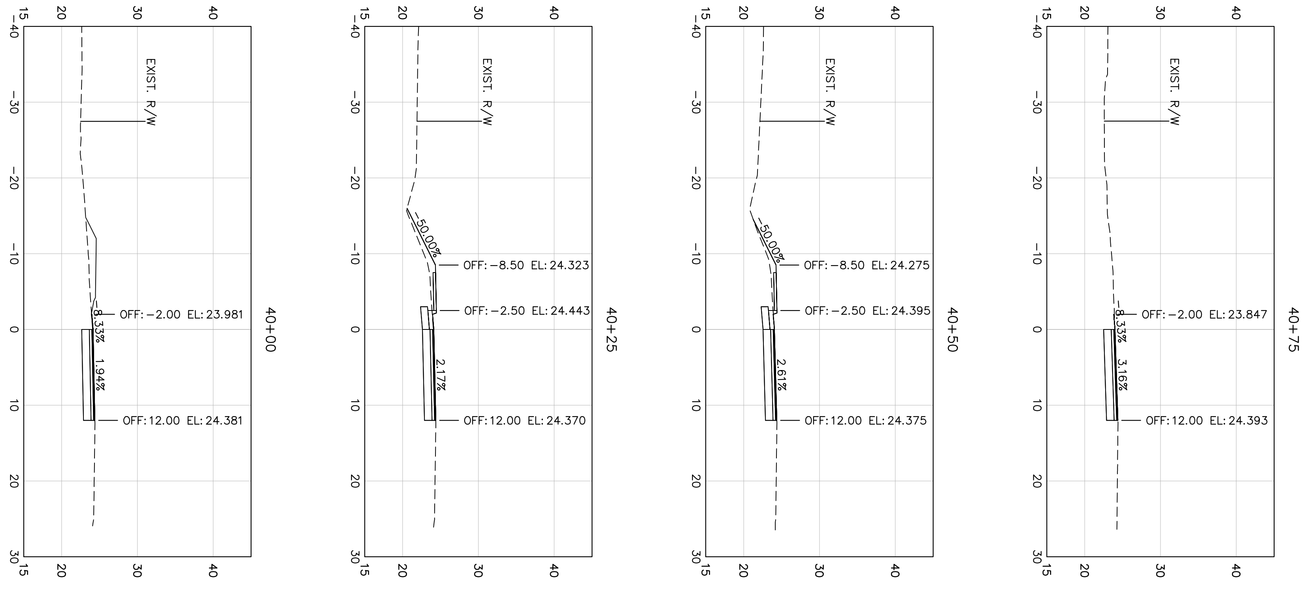

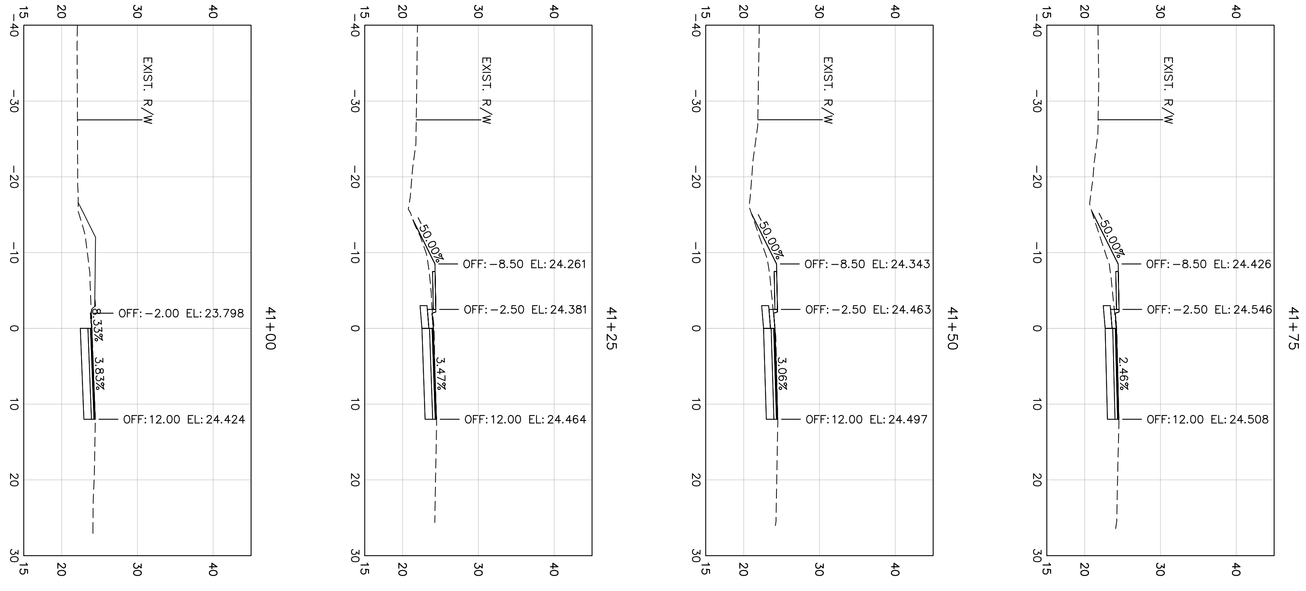

SHEET NUMBER XS-11

PORTSMOUTH BOULEVARD
SIDEWALK IMPROVEMENTS
PREPARED FOR
SUFFOLK
SUFFOLK VIRGINIA

CROSS SECTIONS

KHA PROJECT 117019046
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SCALE AS SHOWN
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DRAWN BY KMP
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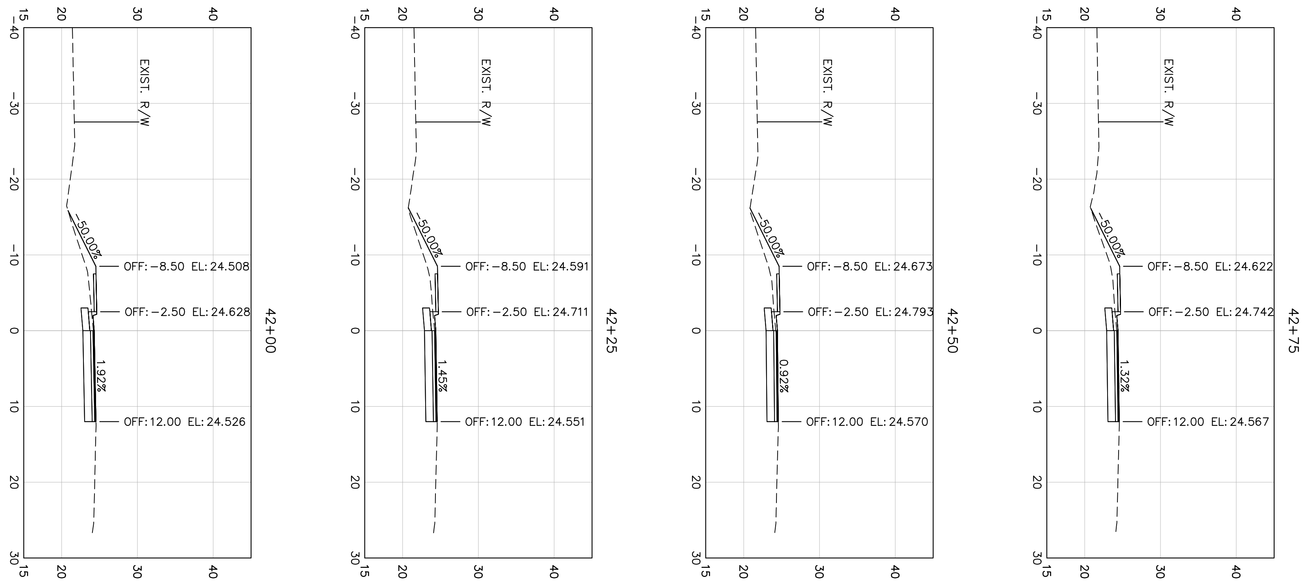

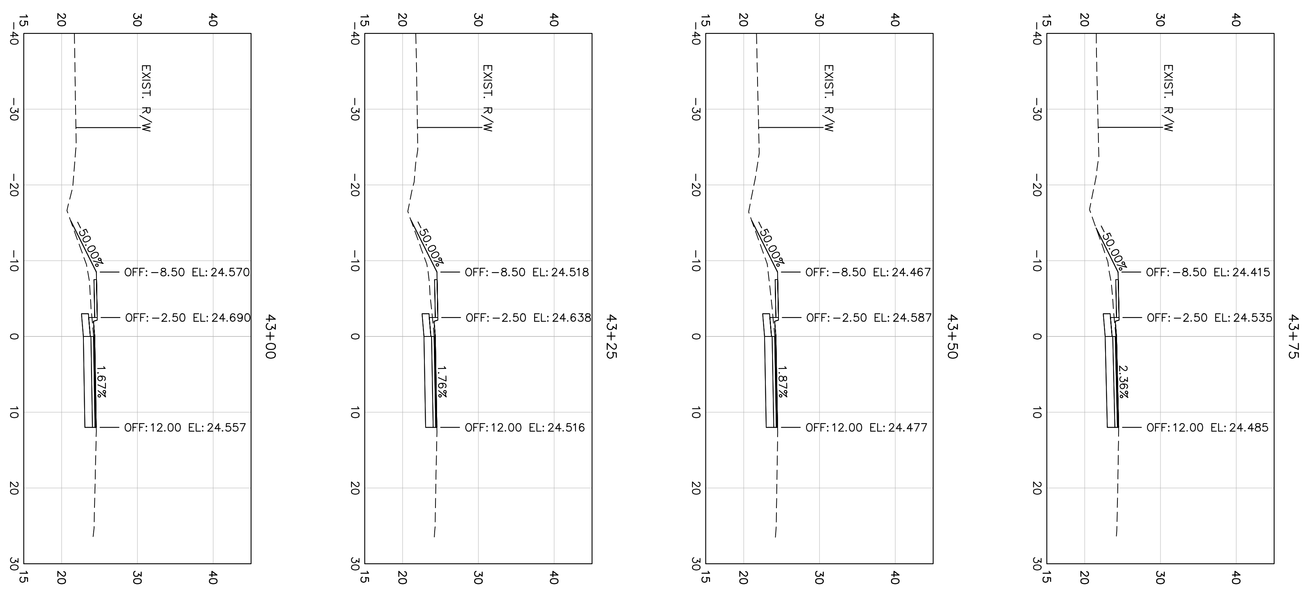

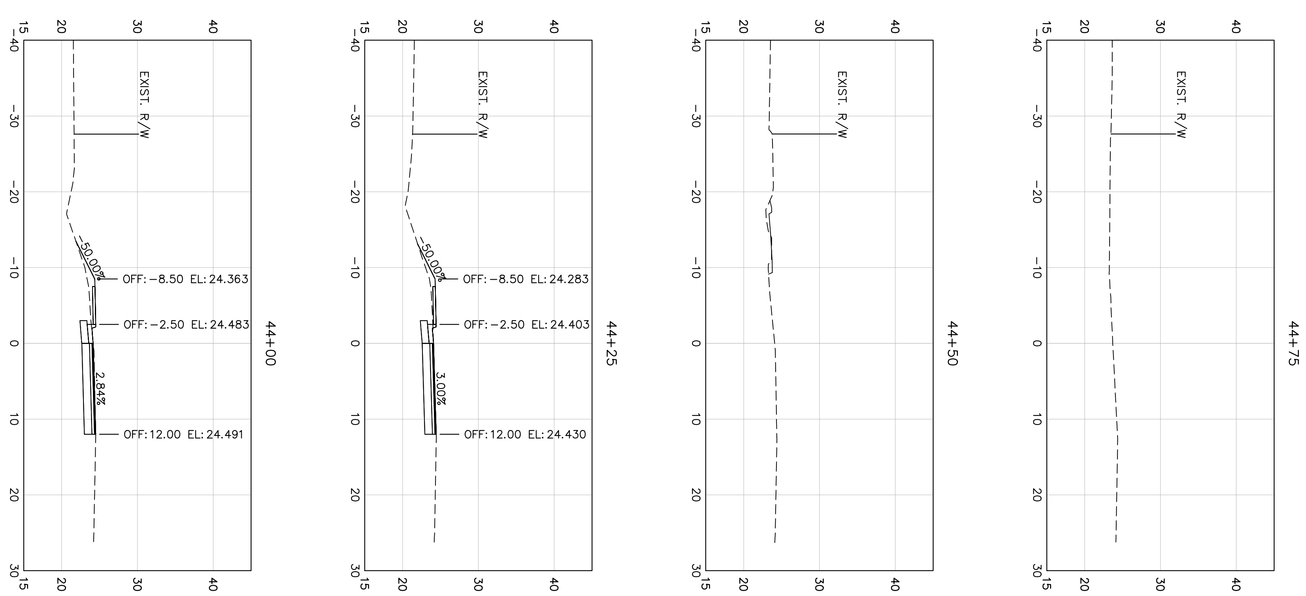

SHEET NUMBER XS-12	PORTSMOUTH BOULEVARD SIDEWALK IMPROVEMENTS PREPARED FOR SUFFOLK SUFFOLK VIRGINIA	CROSS SECTIONS	KHA PROJECT 117019046 DATE 06/08/2018 SCALE AS SHOWN DESIGNED BY APF DRAWN BY KMP CHECKED BY WFM	LICENSED PROFESSIONAL LIC PROF 1 VIRGINIA LICENSE NUMBER LIC PROF 1 # DATE: ———	Kimley»Horn 4525 MAIN STREET, SUITE 1000, VIRGINIA BEACH, VA 23462 PHONE: 757-213-8600 FAX: 757-213-8601 WWW.KIMLEY-HORN.COM © 2018 KIMLEY-HORN AND ASSOCIATES, INC.

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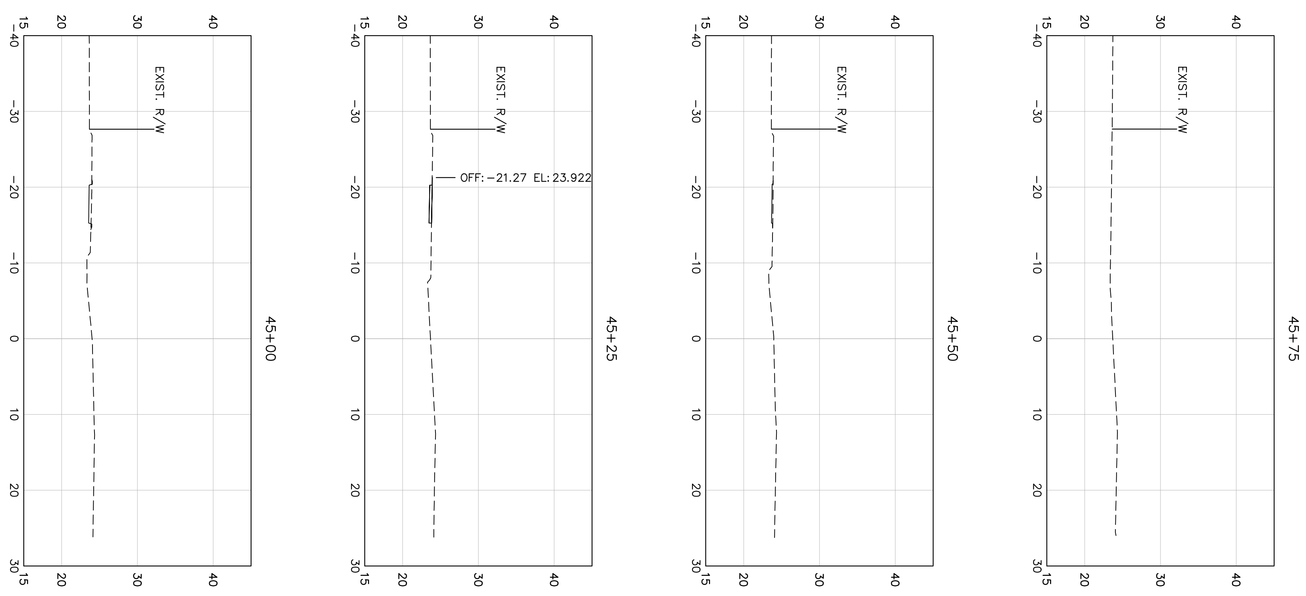

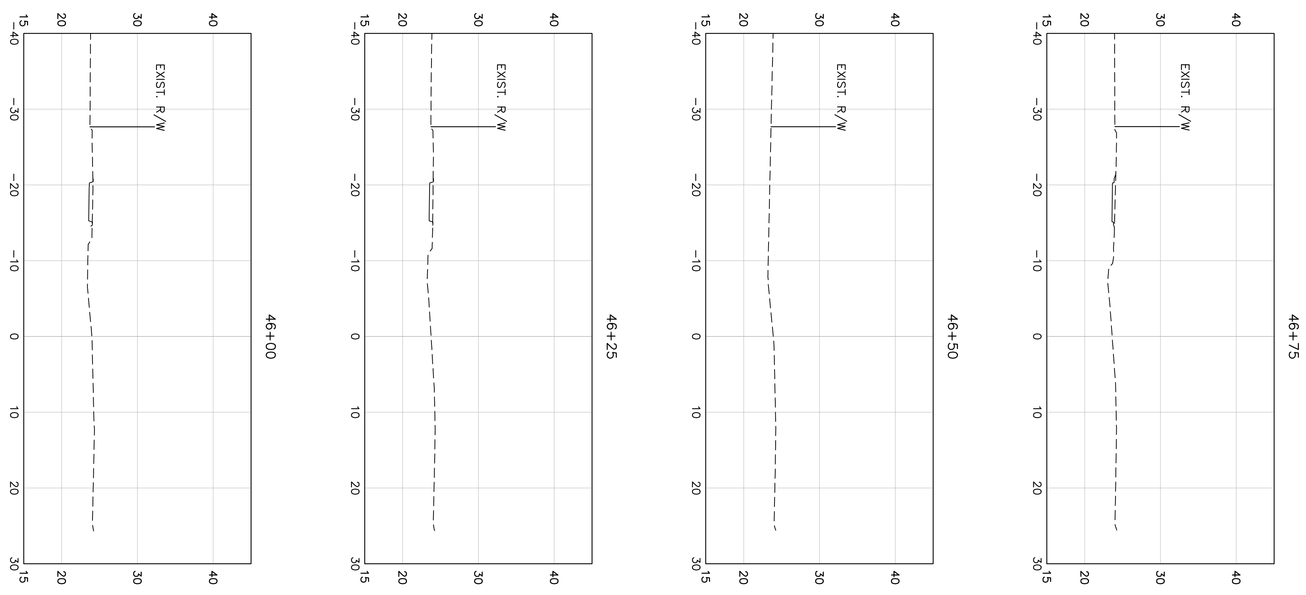

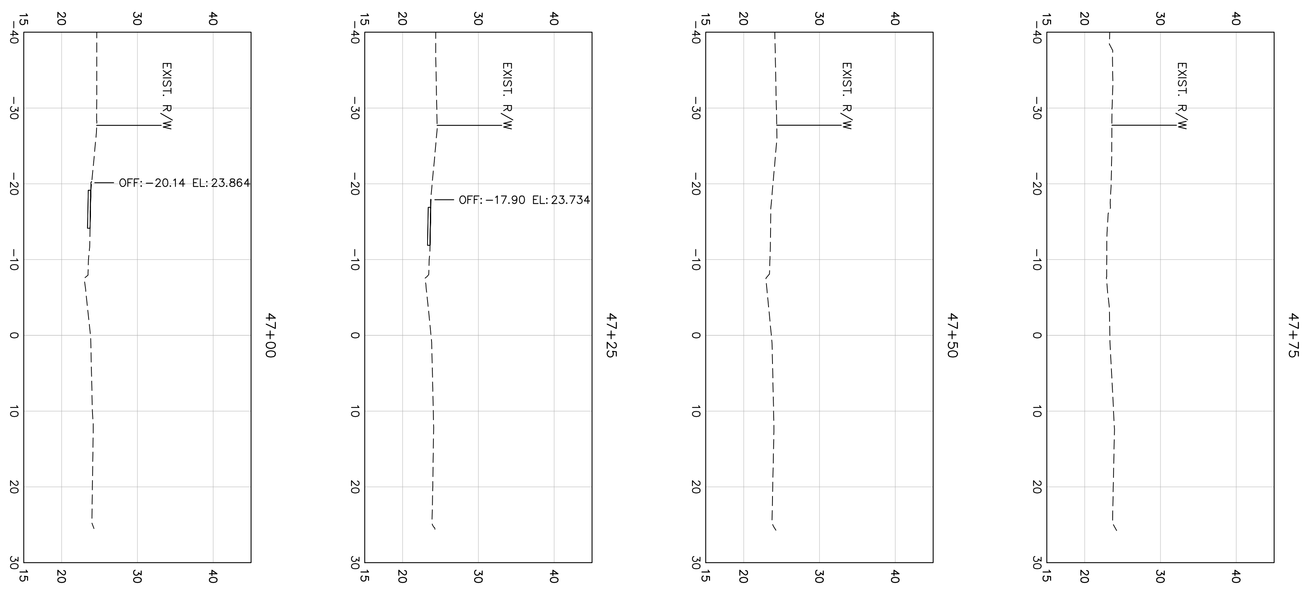

SHEET NUMBER
XS-13

PORTSMOUTH BOULEVARD
SIDEWALK IMPROVEMENTS
PREPARED FOR
SUFFOLK
SUFFOLK VIRGINIA

CROSS SECTIONS

KHA PROJECT	117019046
DATE	06/08/2018
SCALE	AS SHOWN
DESIGNED BY	APF
DRAWN BY	KMP
CHECKED BY	WFM

LICENSED PROFESSIONAL
LIC PROF 1
VIRGINIA LICENSE NUMBER
LIC PROF 1 #
DATE: ———

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