

CURVE DATA

C1 (NEALS LANDING RD) P.I. 96+23.95 N 622,862.683 E 2,625,765.523 A 17° 43' 09" (LT) D 13° 01' 18" R 440.000 L 136.073 T 68.584	C2 (NEALS LANDING RD) P.I. 101+96.29 N 623,332.603 E 2,625,436.891 A 19° 09' 29" (RT) D 11° 27' 33" R 500.000 L 167.186 T 84.380	C3 (ROAD "C") P.I. 67+40.11 N 623,289.433 E 2,625,126.795 A 22° 48' 08" (RT) D 11° 27' 33" R 500.000 L 198.987 T 100.828
C4 (ROAD "C") P.I. 70+76.11 N 623,617.987 E 2,625,044.642 A 55° 33' 21" (LT) D 57° 17' 45" R 100.000 L 96.963 T 52.675	C5 (ROAD "C") P.I. 72+00.29 N 623,664.210 E 2,624,920.391 A 61° 56' 38" (RT) D 57° 17' 45" R 100.000 L 108.112 T 60.019	
C6 (ROAD "A" NORTH) P.I. 22+57.24 N 622,972.772 E 2,625,992.124 A 38° 49' 37" (LT) D 38° 11' 50" R 150.000 L 248.256 T 163.201	C7 (ROAD "A" SOUTH) P.I. 55+63.05 N 622,832.013 E 2,625,704.417 A 22° 33' 22" (LT) D 38° 11' 50" R 150.000 L 59.052 T 29.913	C8 (ROAD "A" SOUTH) P.I. 56+82.26 N 622,741.787 E 2,625,625.328 A 9° 33' 59" (RT) D 19° 05' 55" R 300.000 L 50.089 T 25.103
C9 (VISTA VIEW LN) P.I. 116+47.75 N 623,341.088 E 2,626,105.823 A 31° 04' 31" (RT) D 11° 27' 33" R 500.000 L 79.197 T 39.682	C10 (VISTA VIEW LN) P.I. 118+91.08 N 623,572.513 E 2,626,030.132 A 85° 00' 01" (LT) D 45° 06' 53" R 127.000 L 188.409 T 116.374	
C11 (ROAD "B-1") P.I. 81+24.26 N 623,668.284 E 2,625,146.162 A 20° 52' 32" (RT) D 11° 27' 33" R 500.000 L 182.173 T 92.108	C12 (ROAD "B-1") P.I. 87+28.57 N 623,906.157 E 2,625,736.490 A 4° 43' 19" (RT) D 7° 09' 43" R 800.000 L 65.932 T 32.984	

NOTES FOR ALTERNATIVE DESIGN VARIANCE REQUEST:

1) HORIZONTAL CURVES:

CURVE C4:  
REQUIRED LENGTH: 250' MIN.  
CURRENT LENGTH: 100'

CURVE C5:  
REQUIRED LENGTH: 250' MIN.  
CURRENT LENGTH: 100'

CURVE C6:  
REQUIRED LENGTH: 250' MIN.  
CURRENT LENGTH: 150'

CURVE C10:  
REQUIRED LENGTH: 250' MIN.  
CURRENT LENGTH: 127'

2) SITE DISTANCE EASEMENTS:

CURVE C6:  
REQUIRED SITE DISTANCE: 250' MIN.  
CURRENT SITE DISTANCE: 210'

CURVE C10:  
REQUIRED SITE DISTANCE: 250' MIN.  
CURRENT SITE DISTANCE: 200'

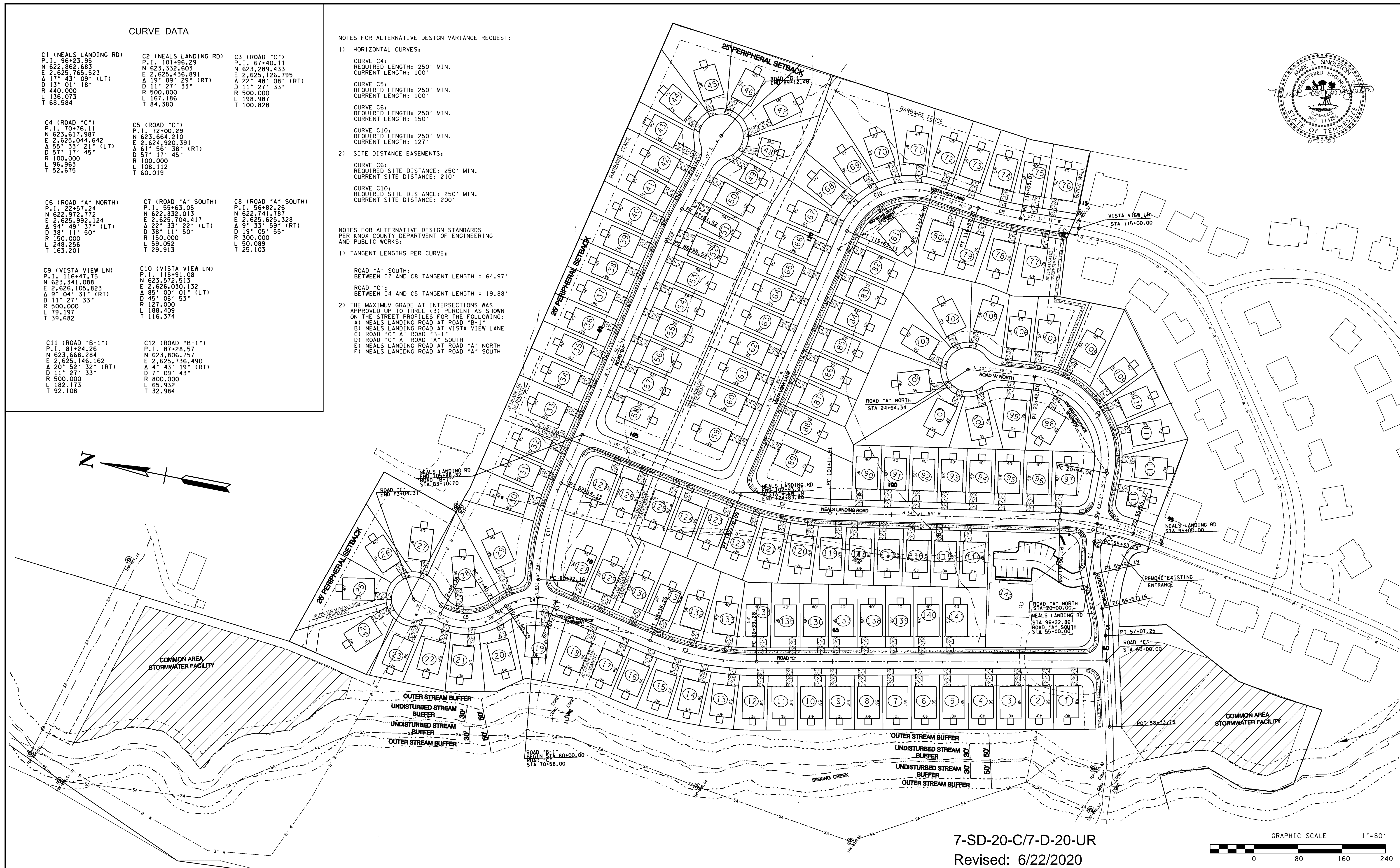
NOTES FOR ALTERNATIVE DESIGN STANDARDS  
PER KNOX COUNTY DEPARTMENT OF ENGINEERING  
AND PUBLIC WORKS:

1) TANGENT LENGTHS PER CURVE:

ROAD "A" SOUTH:  
BETWEEN C7 AND C8 TANGENT LENGTH = 64.97'

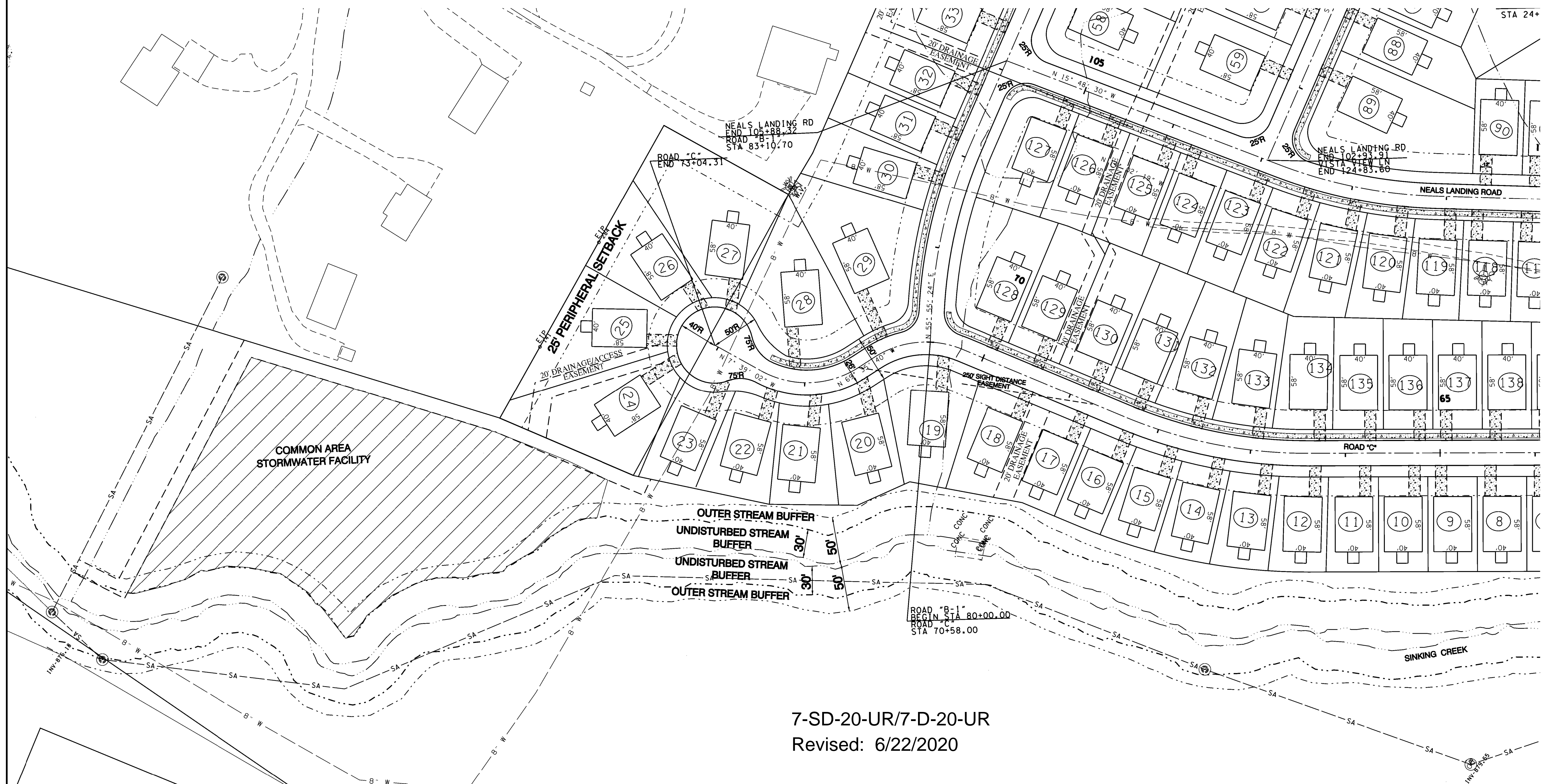
ROAD "C":  
BETWEEN C4 AND C5 TANGENT LENGTH = 19.88'

2) THE MAXIMUM GRADE AT INTERSECTIONS WAS  
APPROVED UP TO THREE (3) PERCENT AS SHOWN  
ON THE STREET PROFILES FOR THE FOLLOWING:  
A) NEALS LANDING ROAD AT ROAD "B-1"  
B) NEALS LANDING ROAD AT VISTA VIEW LANE  
C) ROAD "C" AT ROAD "B-1"  
D) ROAD "C" AT ROAD "A" SOUTH  
E) NEALS LANDING ROAD AT ROAD "A" NORTH  
F) NEALS LANDING ROAD AT ROAD "A" SOUTH



						ROBERT G. CAMPBELL & ASSOC., L.P. CONSULTING ENGINEERS KNOXVILLE, TENNESSEE		NEALS LANDING - UNIT 3		ENLARGED SITE LAYOUT		DESIGNED BY MAS	CHECKED BY RGC	SCALE 1" = 80'	SHEET NO. <b>1A</b>
NO.	DATE	DESCRIPTION REVISIONS		BY	CKD.							DRAWN BY MAS	DATE 6-22-20	FILE NO. 18131	





7-SD-20-UR/7-D-20-UR  
Revised: 6/22/2020

NO.	DATE	DESCRIPTION	BY	CKD.
REVISIONS				

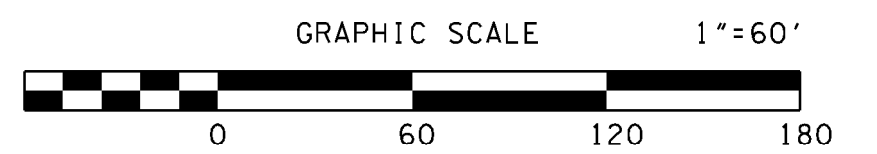
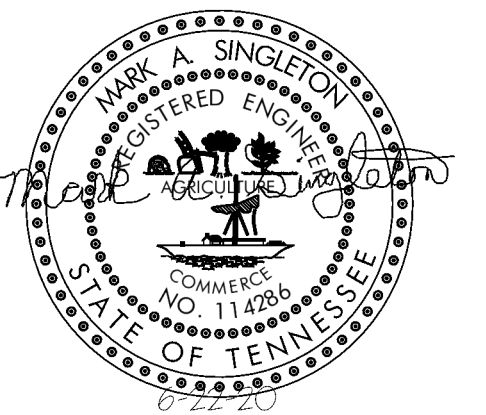
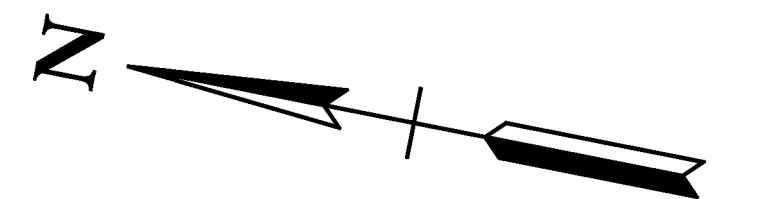
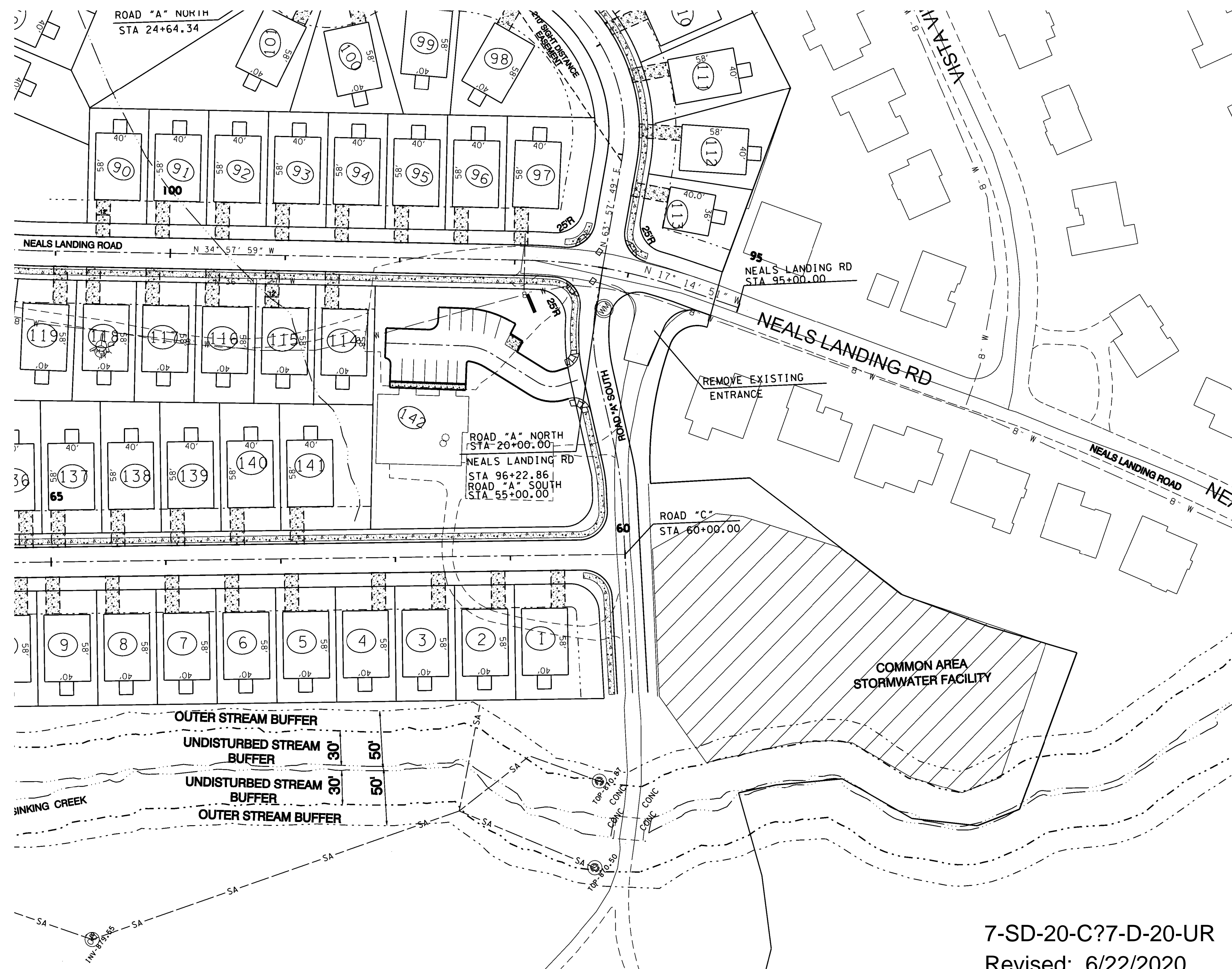


**ROBERT G. CAMPBELL & ASSOC., L.P.**  
CONSULTING ENGINEERS  
KNOXVILLE, TENNESSEE

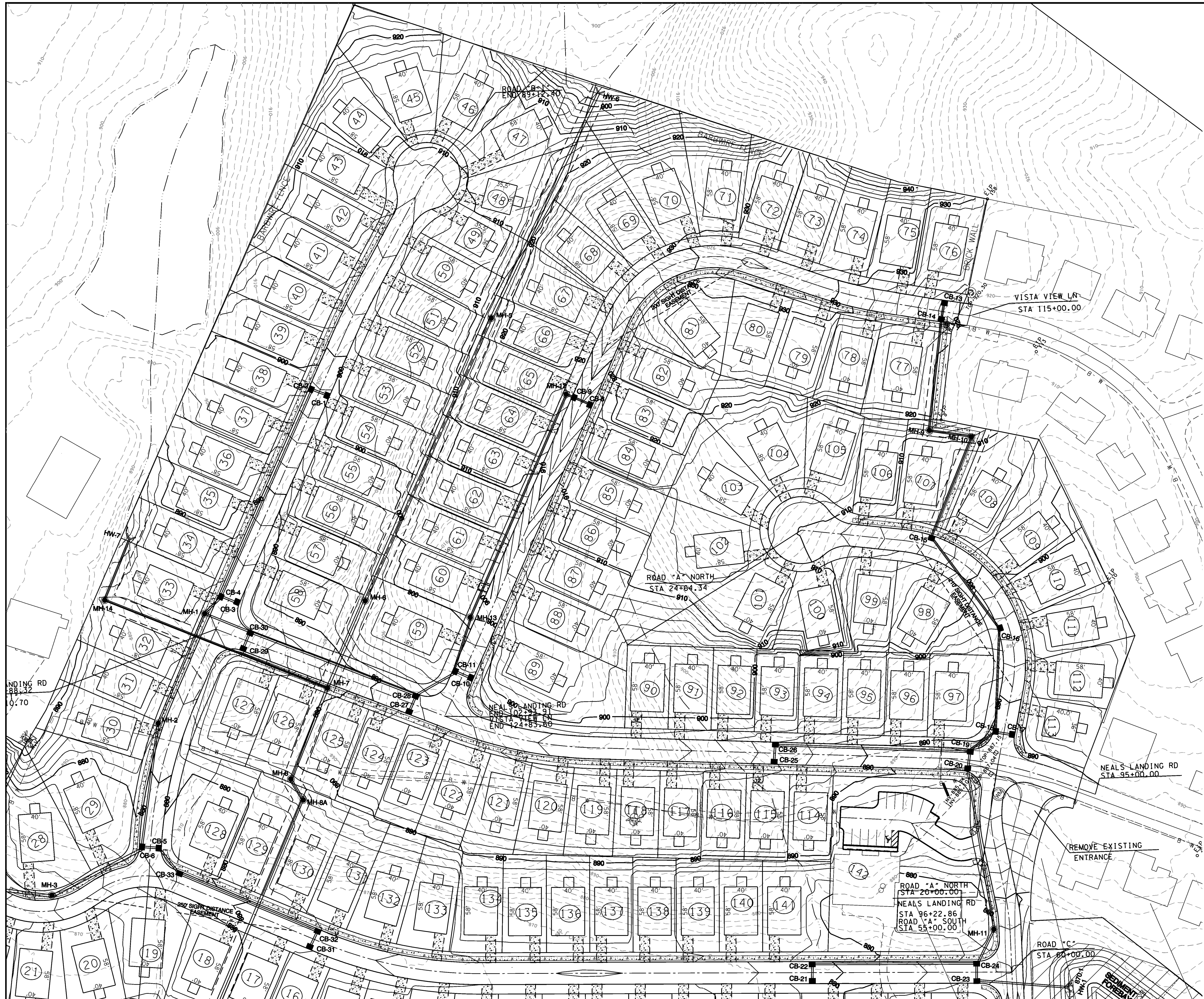
# NEALS LANDING - UNIT 3

# SITE LAYOUT

DESIGNED BY MAS	CHECKED BY RGC	SCALE 1" = 60'	SHEET NO. <b>5</b>
DRAWN BY MAS	DATE 6-22-20	FILE NO. 18131	



NO.	DATE	DESCRIPTION REVISIONS	BY	CKD.	 <b>ROBERT G. CAMPBELL &amp; ASSOC., L.P.</b> CONSULTING ENGINEERS KNOXVILLE, TENNESSEE	<b>NEALS LANDING - UNIT 3</b>	<b>SITE LAYOUT</b>	DESIGNED BY MAS	CHECKED BY RGC	SCALE 1" = 60'	SHEET NO. <b>5A</b>
								DRAWN BY MAS	DATE 6-22-20	FILE NO. 18131	

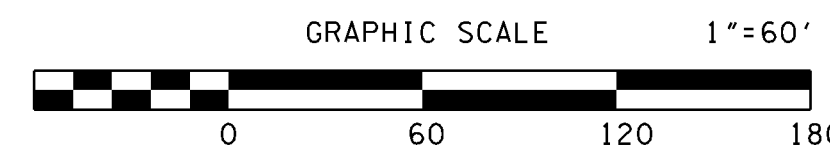
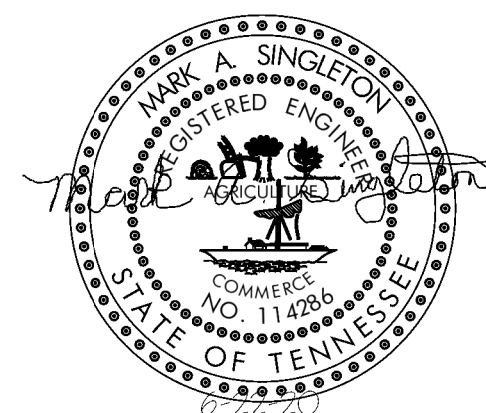
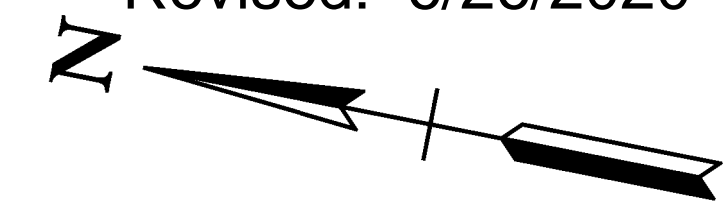


- NOTES:
- 1) EXCAVATE PERMANENT STORMWATER DETENTION POND IN ADVANCE OF CONSTRUCTION, AND USE AS SEDIMENT BASIN DURING CONSTRUCTION. REMOVE ACCUMULATED SEDIMENT AND INSTALL PERMANENT OUTLET STRUCTURE WHEN THE UPSTREAM DRAINAGE AREA IS STABILIZED.
  - 2) EXISTING CONTOURS BASED ON KGIS PROVIDED BY LYNCH SURVEYS.
  - 3) LOCATIONS OF UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THERE MAY BE OTHER UTILITIES NOT SHOWN. PRIOR TO ANY EXCAVATION, THE OWNER AND/OR CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE LOCAL UTILITY AUTHORITIES FOR EXACT LOCATIONS AND DEPTHS.
  - 4) CONTRACTOR IS RESPONSIBLE FOR ALL TRENCH SAFETY PRACTICES.
  - 5) APPLY TEMPORARY SEEDING WHENEVER GRADING OPERATIONS ARE TEMPORARILY HALTED FOR OVER 14 DAYS AND FINAL GRADING OF EXPOSED SURFACES IS TO BE COMPLETED WITHIN ONE YEAR. APPLY TEMPORARY SEEDING TO SOIL STOCKPILES.
  - 6) APPLY PERMANENT SEEDING WHENEVER GRADING OPERATIONS ARE COMPLETED AND ALL CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA. APPLY PERMANENT SEEDING TO ALL NON- CONSTRUCTION AREAS WHICH SHOW SIGNS OF EXCESSIVE EROSION.
  - 7) ACCESS TO ALL UNITS FROM INTERNAL ROAD SYSTEM ONLY.
  - 8) A 15' SANITARY SEWER EASEMENT EXISTS ALONG SANITARY SEWER LINE, 7.5' EACH SIDE AS INSTALLED.
  - 9) LANDSCAPING SHALL COMPLY WITH ALL ASPECTS OF THE KNOX COUNTY ENGINEERING, TREE PROTECTION ORDINANCE.
  - 10) PRIOR TO LAND DISTURBANCE, A SITE DEVELOPMENT PERMIT TO BE OBTAINED FROM KNOX COUNTY. ADDITIONAL ENGINEERING ANALYSIS, AND OTHER DOCUMENTS WILL BE REQUIRED FOR ISSUANCE OF THE SITE PERMIT. ADDITIONAL STORMWATER EASEMENTS AND FACILITIES MAY BE REQUIRED.
  - 11) THE OWNER IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF CONSTRUCTION SITE POLLUTION PREVENTION CONTROLS THROUGHOUT THE LIFE OF THE PROJECT.
  - 12) ROADWAYS TO BE PUBLIC RIGHT OF WAYS.
  - 13) EASEMENTS TO BE PROVIDED FOR SWALES AND STORMWATER PIPES AS PART OF SITE DEVELOPMENT PLAN AND FINAL PLATTING.
  - 14) SINGAGE SHALL BE PLACED BASED ON 25 MPH DESIGN SPEED.
  - 15) LOCATIONS OF MAIL KIOSKS TO BE APPROVED BY THE U.S. POSTAL SERVICE.
  - 16) MAXIMUM DRIVEWAY WIDTH TO BE 18 FEET.

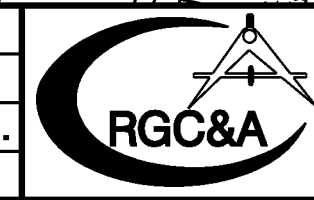
LEGEND

- PROPOSED SIDEWALK
- PROPOSED STORMDRAIN
- PROPOSED CATCH BASIN
- PROPOSED HEADWALL
- EXISTING ROADS
- PROPOSED MAJOR CONTOURS
- PROPOSED MINOR CONTOURS
- EXISTING TREE LINE

7-SD-20-C / 7-D-20-UR  
Revised: 6/26/2020



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REVISIONS				



ROBERT G. CAMPBELL & ASSOC., L.P.  
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KNOXVILLE, TENNESSEE

NEALS LANDING - UNIT 3

GRADING AND DRAINAGE LAYOUT

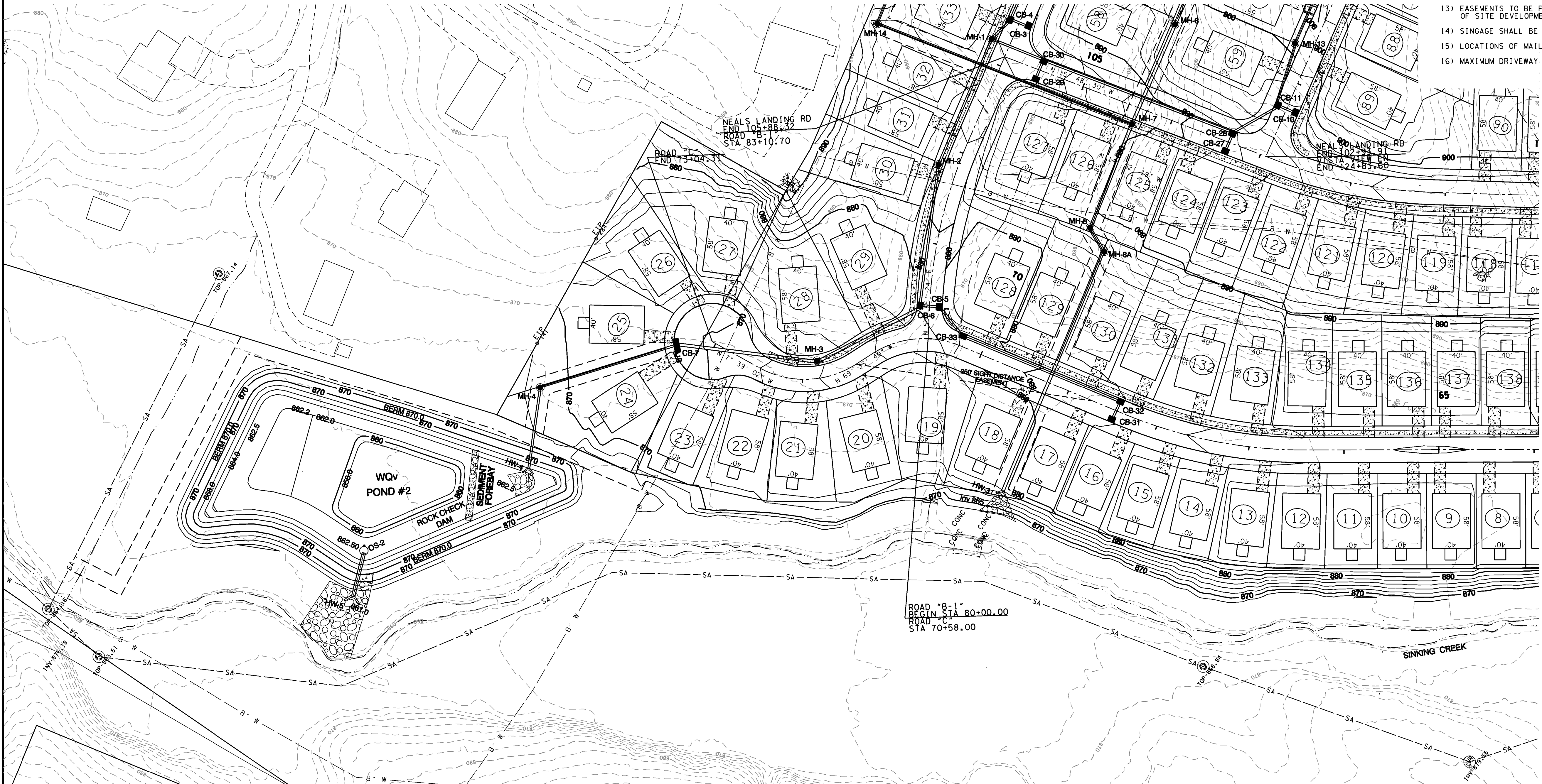
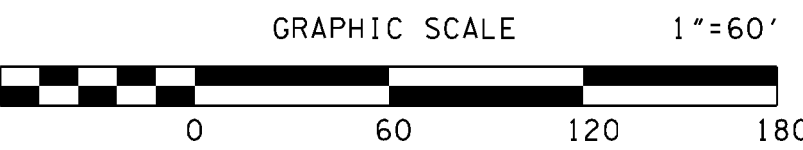
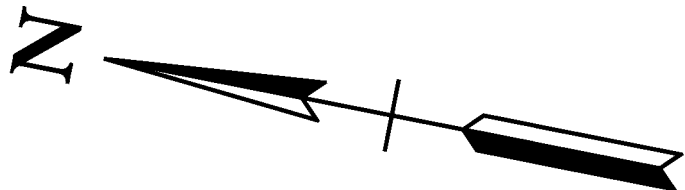
DESIGNED BY MAS	CHECKED BY RGC	SCALE 1" = 60'	SHEET NO. <b>6</b>
DRAWN BY MAS	DATE 6-22-20	FILE NO. 18131	

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  - 11) THE OWNER IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF CONSTRUCTION SITE POLLUTION PREVENTION CONTROLS THROUGHOUT THE LIFE OF THE PROJECT.
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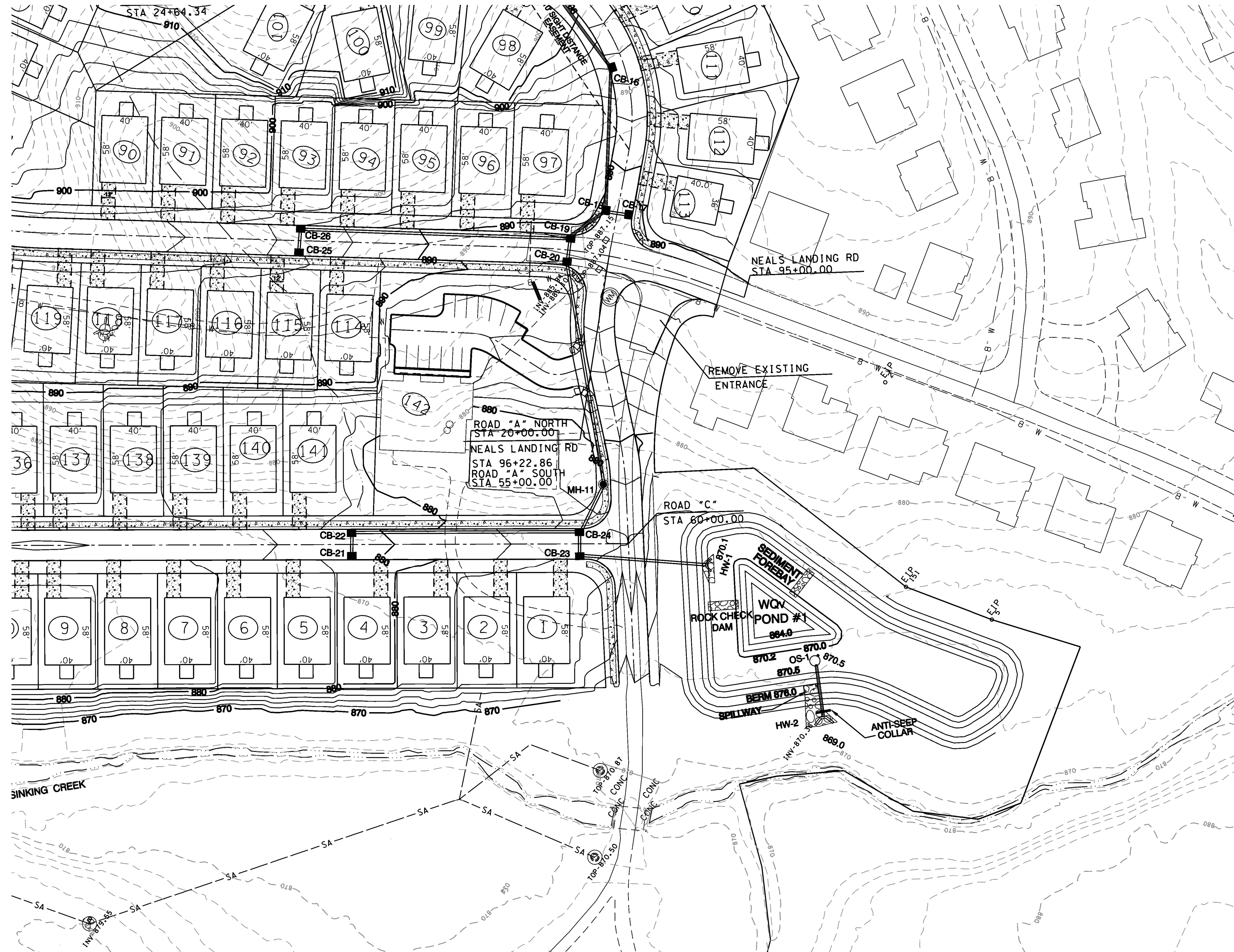
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Revised: 6/26/2020

LEGEND

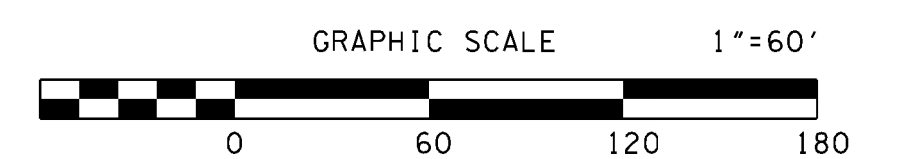
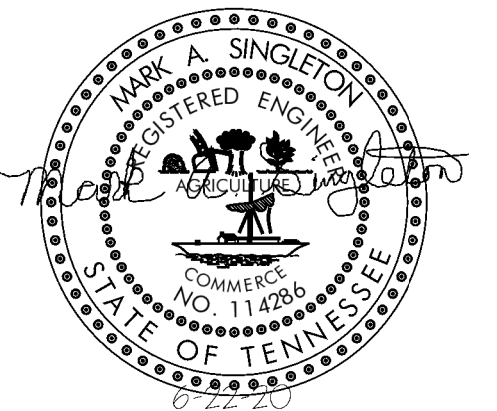
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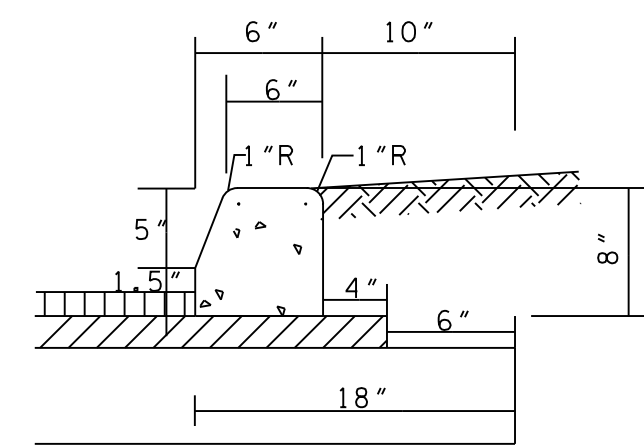
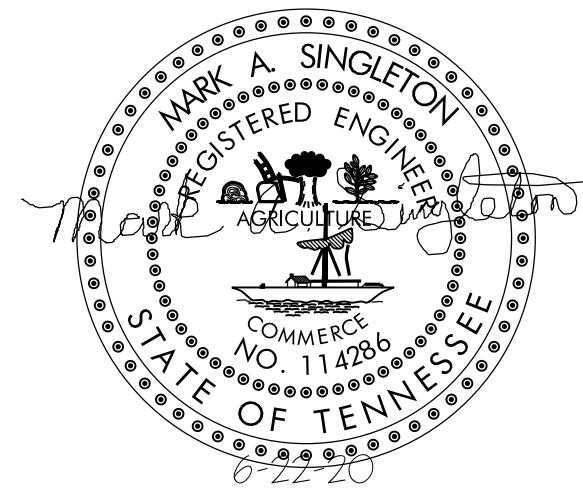
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NO.	DATE	DESCRIPTION REVISIONS	BY	CKD.				DRAWN BY MAS	DATE 6-22-20	FILE NO. 18131	



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Revised: 6/22/20200

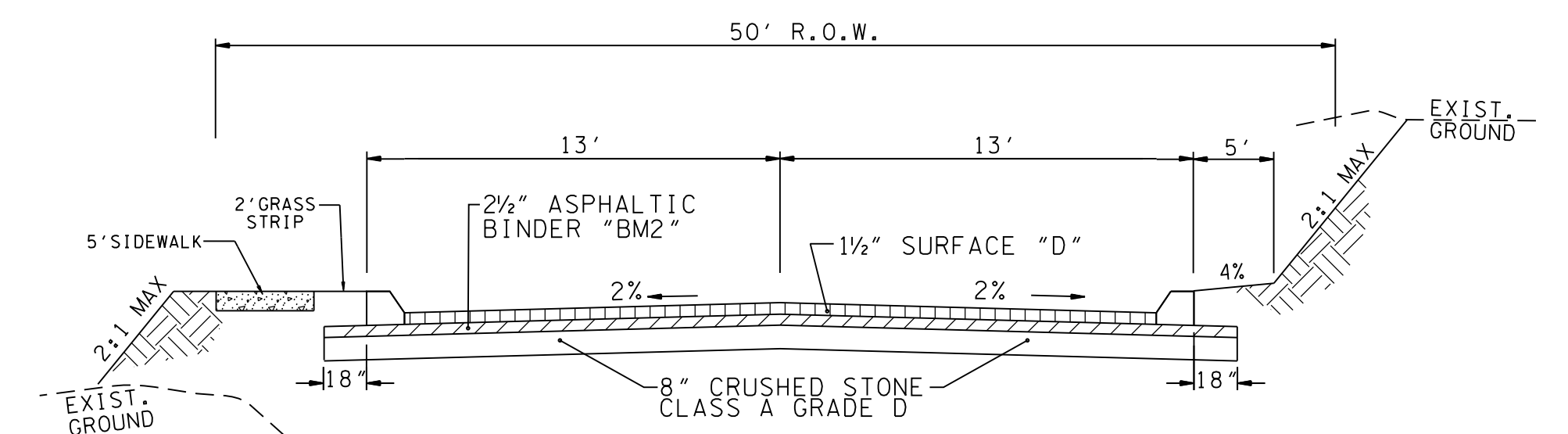


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STANDARD DETAIL 6" EXTRUDED CURB

NOTE: INSTALL CONTRACTION JOINTS AT MAXIMUM SPACING OF 10 FEET.  
INSTALL EXPANSION JOINTS AT MAXIMUM SPACING OF 25 FEET.



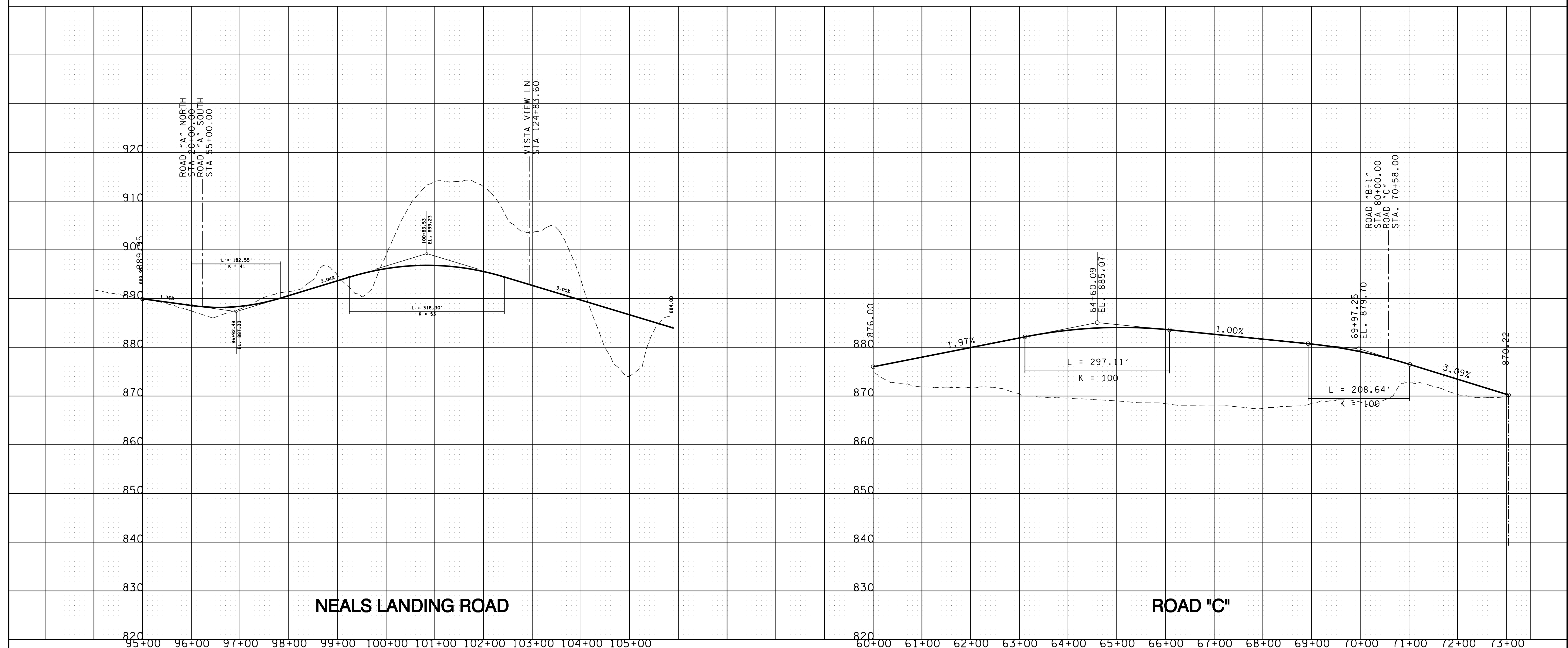
TYPICAL 2 LANE STREET

BORROW MATERIALS TO BE USED FOR FILL SHALL BE TESTED FOR MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT (STANDARD PROCTOR ASTM D698) PRIOR TO PLACEMENT OF FILL.

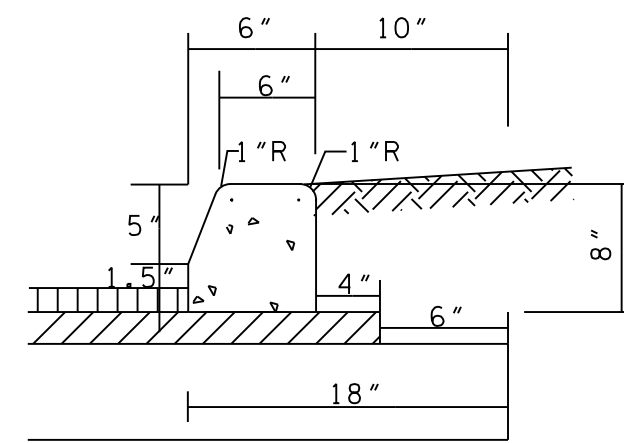
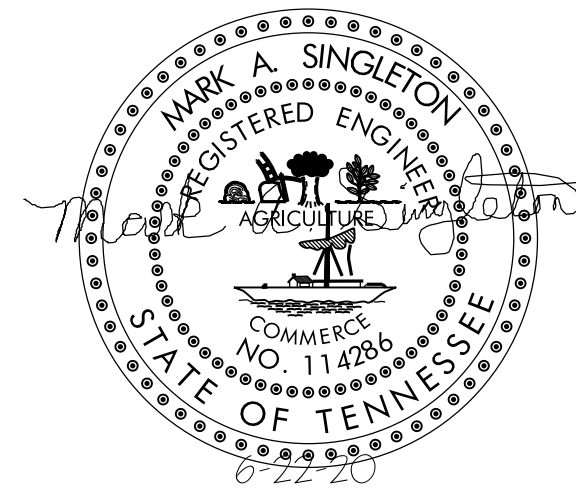
FILL SOILS SHALL BE COMPACTED IN LAYERS 8 INCHES OR LESS IN THICKNESS TO A MINIMUM OF 98 PERCENT STANDARD PROCTOR MAXIMUM DRY DENSITY AND WITHIN PLUS OR MINUS 3 PERCENT OPTIMUM MOISTURE CONTENT. NO LESS THAN SIX (6) DENSITY TESTS SHALL BE PERFORMED IN EVERY 10,000 SQUARE FEET OF AREA PER 8 INCH LIFT. (APPROX. 1 TEST PER EVERY 50 SQ. FT.)

7-SD-20-C / 7-D-20-UR

Revised: 6/26/2020

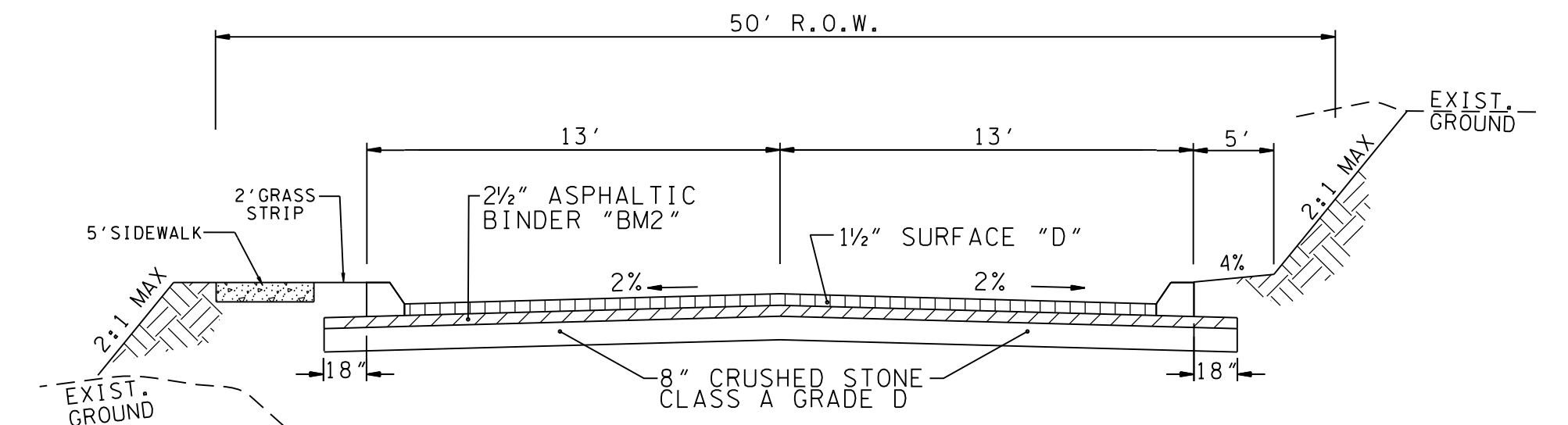


NO.		DATE	DESCRIPTION	BY	CHKD.	 <b>ROBERT G. CAMPBELL &amp; ASSOC., L.P.</b> CONSULTING ENGINEERS KNOXVILLE, TENNESSEE		<b>NEALS LANDING - UNIT 3</b>		<b>ROAD PROFILES</b>		DESIGNED BY	CHECKED BY	SCALE	SHEET NO. <b>10</b>
			REVISIONS									MAS	RGC	1"=100' HORZ. 1"=10' VERT.	
												DRAWN BY	DATE	FILE NO.	
												MAS	6-22-20	18131	



STANDARD DETAIL 6' EXTRUDED CURB

NOTE: INSTALL CONTRACTION JOINTS AT MAXIMUM SPACING OF 10 FEET.  
INSTALL EXPANSION JOINTS AT MAXIMUM SPACING OF 25 FEET.



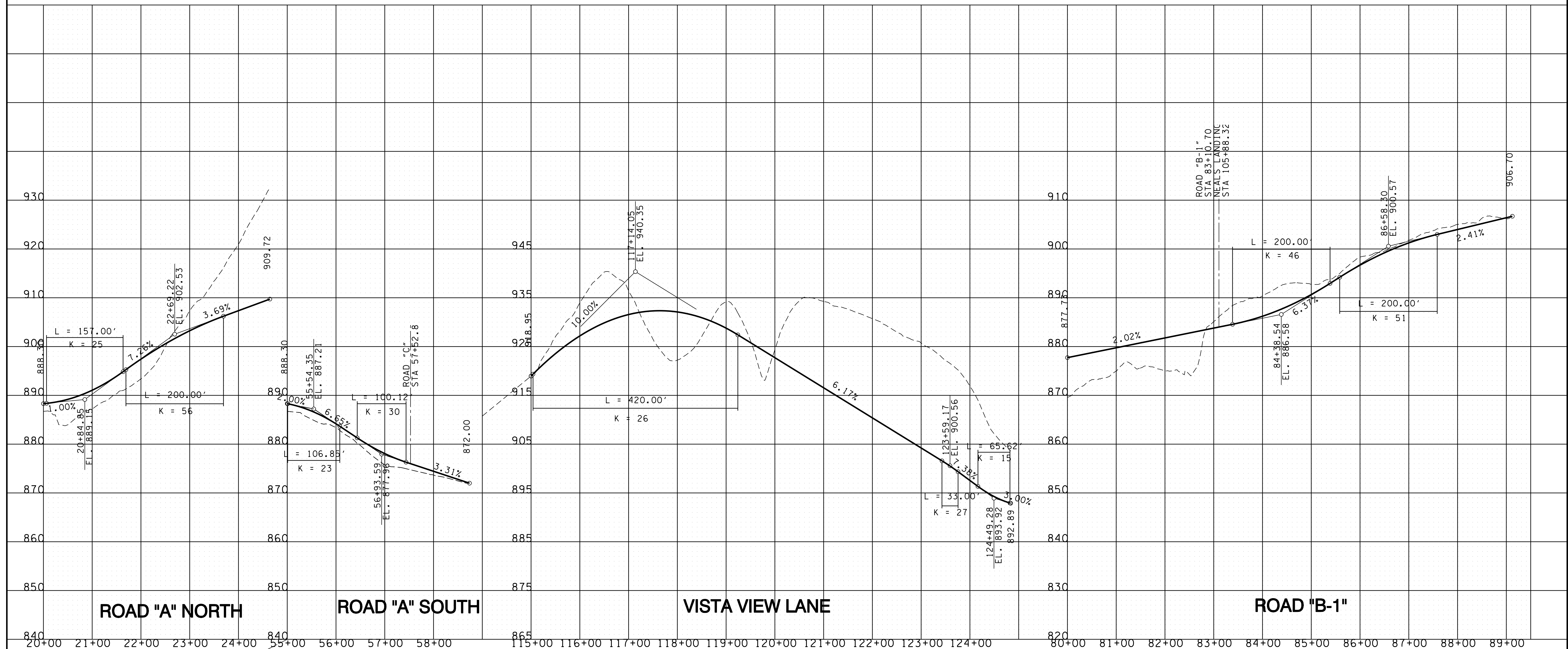
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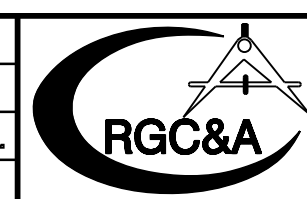
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7-SD-20-C / 7-D-20-UR

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NO.	DATE	DESCRIPTION	BY	CHKD.



ROBERT G. CAMPBELL & ASSOC., L.P.  
CONSULTING ENGINEERS  
KNOXVILLE, TENNESSEE

NEALS LANDING - UNIT 3

ROAD PROFILES

DESIGNED BY MAS	CHECKED BY RGC	SCALE 1"=100' HORIZ. 1"=10' VERT.	SHEET NO. 11
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