

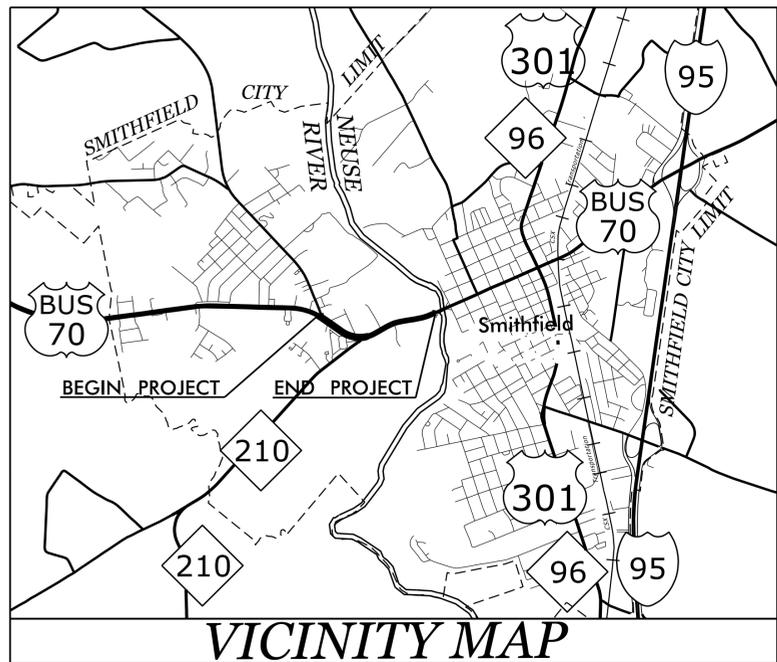
09/08/09

See Sheet 1-A For Index of Sheets

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	3704.3.68	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
3704.3.68	STP-000S(813)	CONSTRUCTION	

PROJECT: 3704.3.68

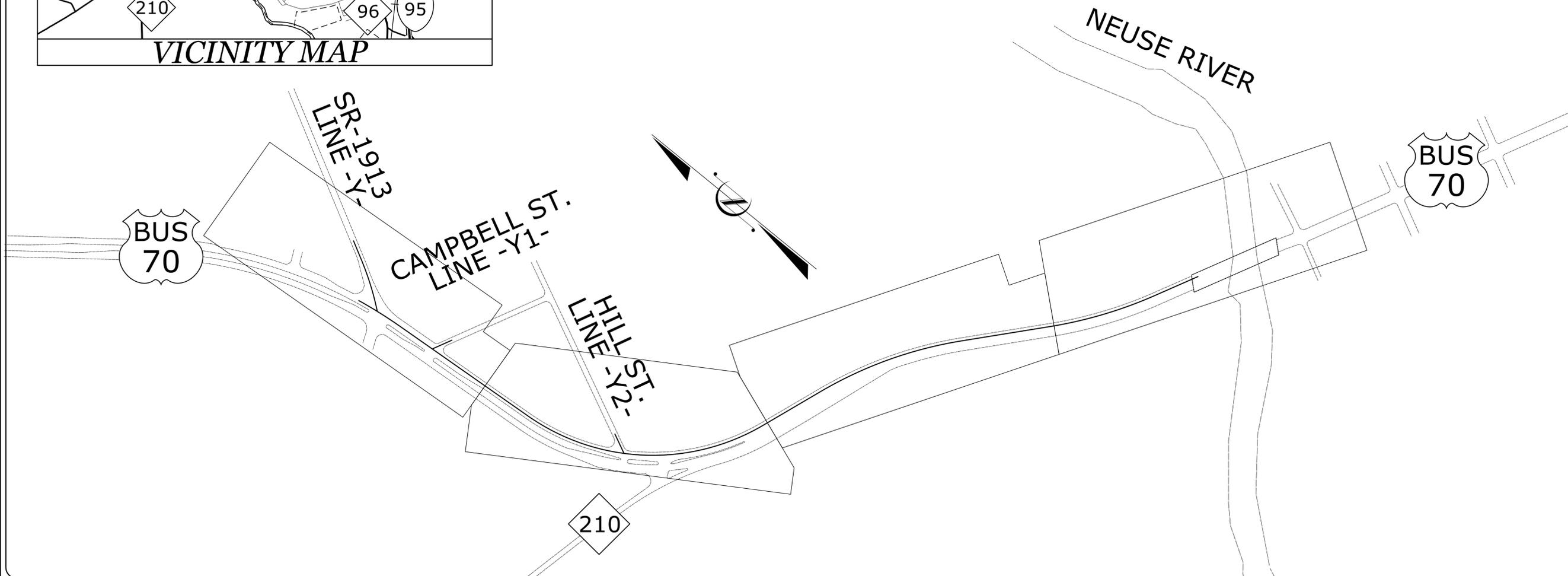


JOHNSTON COUNTY

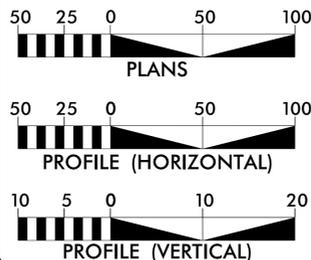
LOCATION: US-70 BUS. FROM SR-1913 TO NEUSE RIVER BRIDGE

TYPE OF WORK: PLANTING

CONTRACT: DD00165



GRAPHIC SCALES



DESIGN DATA

PROJECT LENGTH

Prepared in the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
N/A

LETTING DATE:
NOV. 24 2015

T.M. LITTLE PE
PROJECT ENGINEER

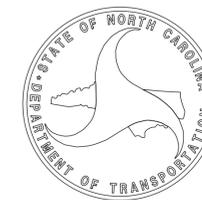
D.R. ETHRIDGE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

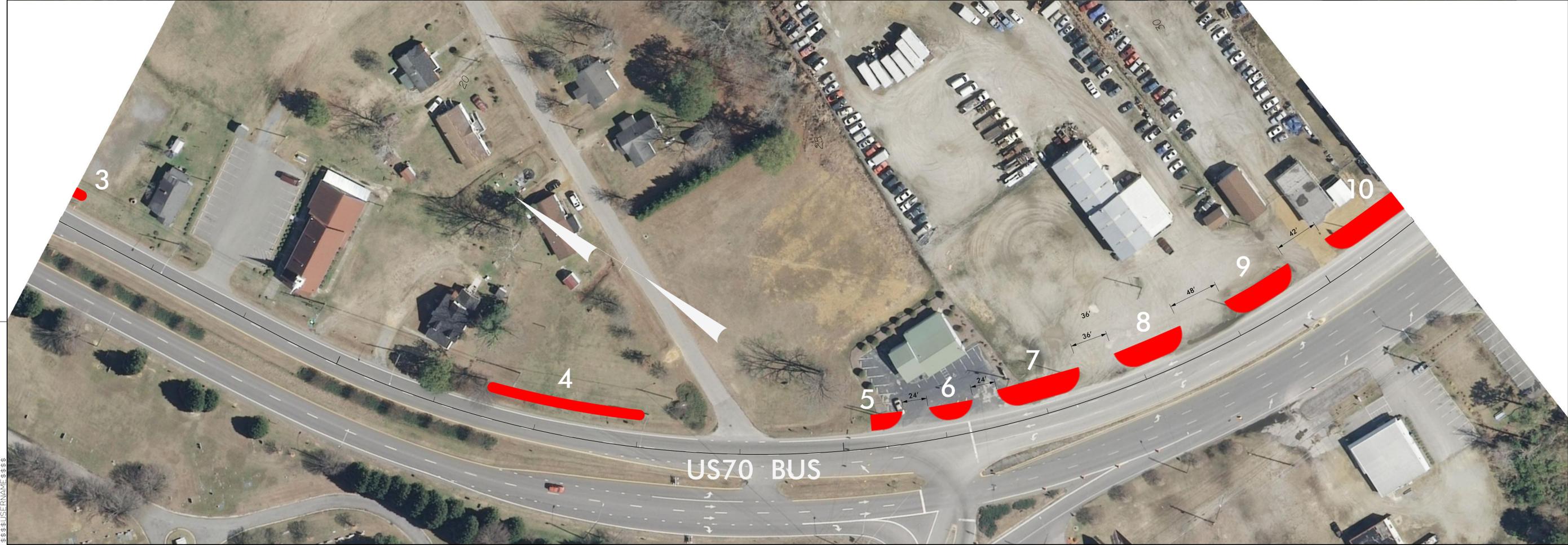
SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



29-OCT-2015 08:06
S:\DDC\us70_bus\TSh.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

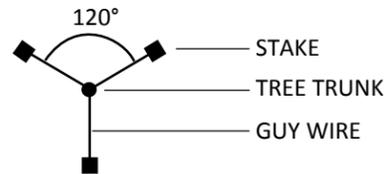


REVISIONS

8/17/99

US TIME SHOWN ON THESE SHEETS IS THE TIME OF THE PHOTOGRAPHY

TREE STAKING DETAIL

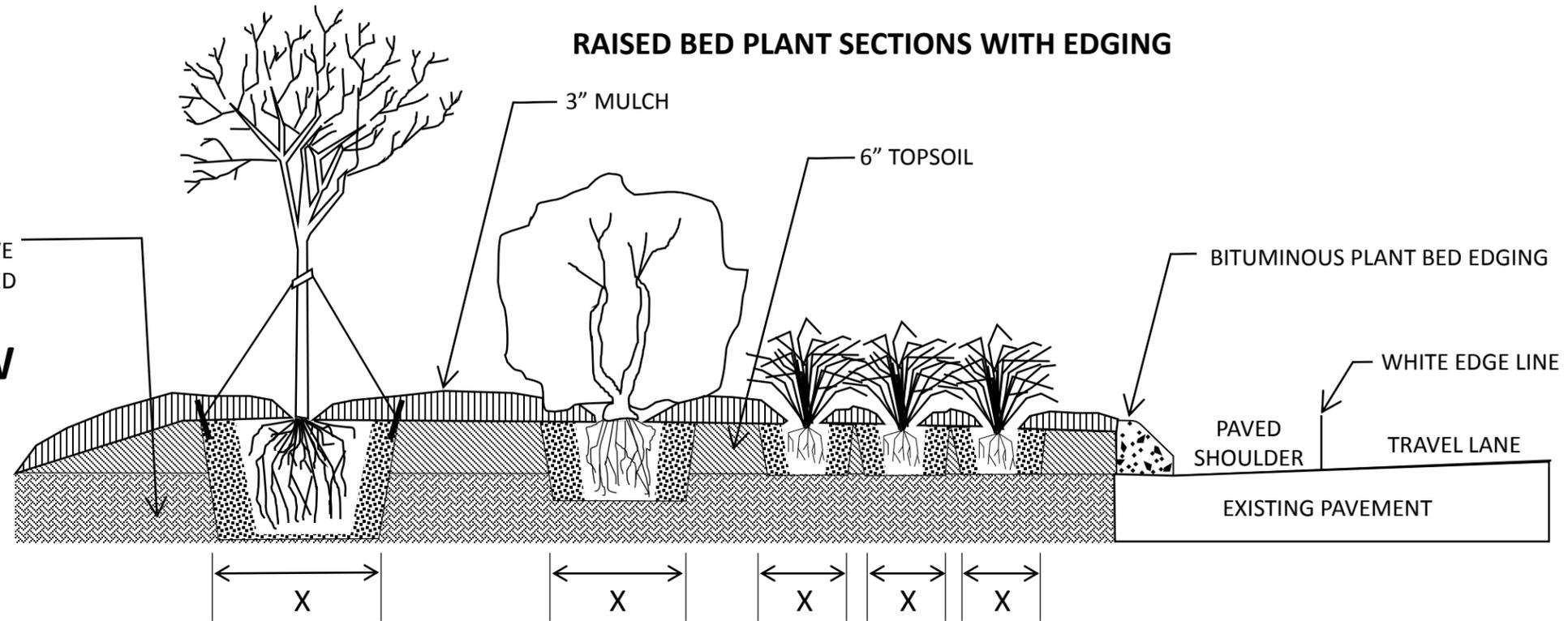


PLANTING DETAILS

RAISED BED PLANT SECTIONS WITH EDGING

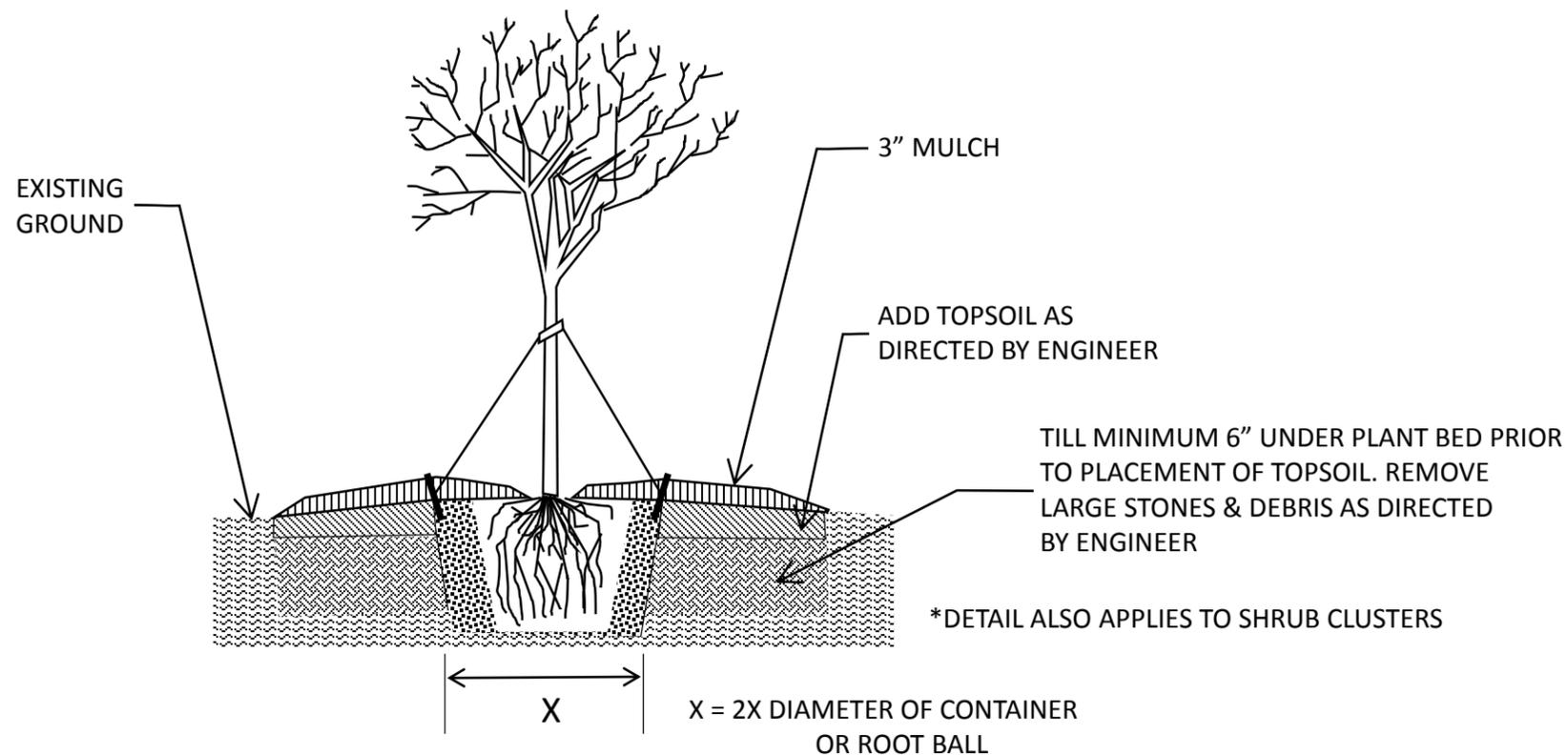
TILL 6" UNDER PLANT BED PRIOR TO PLACEMENT OF TOPSOIL. REMOVE LARGE STONES & DEBRIS AS DIRECTED BY ENGINEER

R/W



X = 2X DIAMETER OF CONTAINER OR ROOT BALL

TREE AND SHRUB RING AND LINEAR BEDS WITHOUT EDGING



*DETAIL ALSO APPLIES TO SHRUB CLUSTERS

X = 2X DIAMETER OF CONTAINER OR ROOT BALL

NOTES

- SEE STANDARD SPECIFICATIONS AND CONTRACT SPECIAL PROVISIONS FOR PLANT BED PREPARATION AND HERBICIDAL PRE AND POST TREATMENTS
- FERTILIZER SHALL BE APPLIED AT TIME OF PLANTING. FERTILIZER SHALL BE A SLOW RELEASE PELLET OR TABLET. FORMULATION SHALL BE APPROVED BY ENGINEER AND APPLIED AT MANUFACTURER'S RECOMMENDED RATE OR AS SPECIFIED BY THE ENGINEER. THOROUGHLY MIX WITH TOPSOIL, BACKFILL OR SCARIFIED SOIL.
- SET ROOT BALL OF PLANTS AT GRADE OR SLIGHTLY ABOVE AS DIRECTED BY THE ENGINEER. PLACEMENT MAY BE DEPENDENT ON SOIL TYPE AT INSTALLATION SITE. DO NOT PLACE MULCH WITHIN 6" OF TREE TRUNK OR WITHIN 4" OF SHRUB OR GROUND COVER
- SEE SUMMARY OF QUANTITIES FOR PLANTING QUANTITIES. THE ENGINEER MAY ALTER LAYOUT AS NEEDED WHEN DETERMINED NECESSARY IN FIELD.
- ANY SOD OR EXISTING VEGETATION SHALL BE REMOVED PRIOR TO TILLING AND ESTABLISHMENT OF PLANT BED

*NOT TO SCALE

PROJECT:		
US 70 BUSINESS – CORRIDOR ENHANCEMENT		
DIVISION: FOUR	COUNTY: JOHNSTON	SHEET: 4

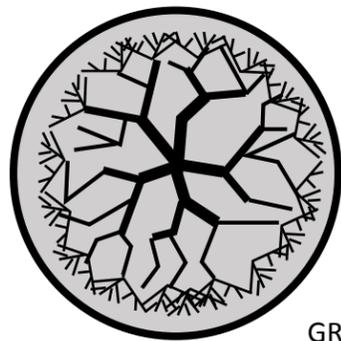


R
W

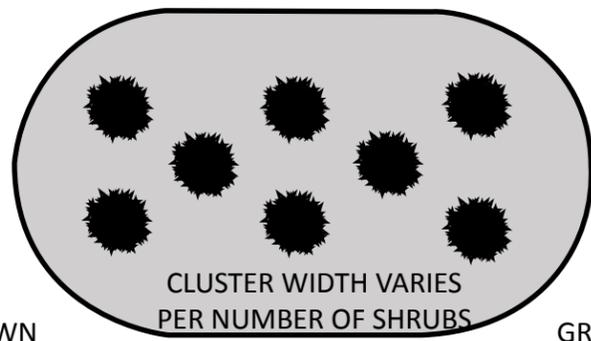
MIN. TREE SPACING

*SEE QUANTITY SUMMARY

PLANTING TYPICAL #1

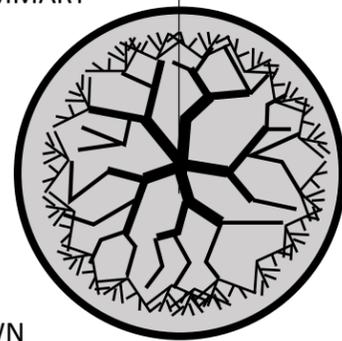


GRASS / LAWN



CLUSTER WIDTH VARIES PER NUMBER OF SHRUBS

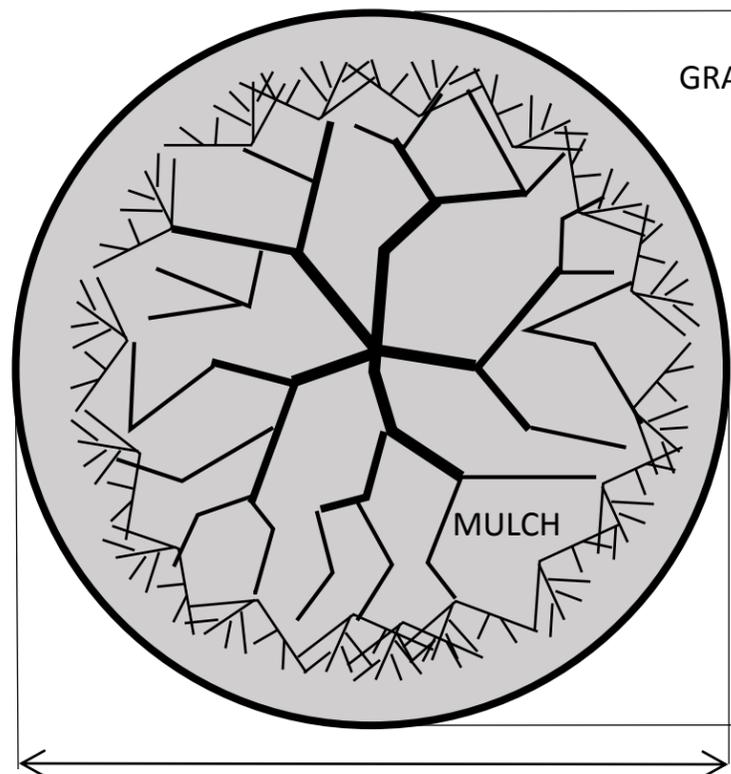
GRASS / LAWN



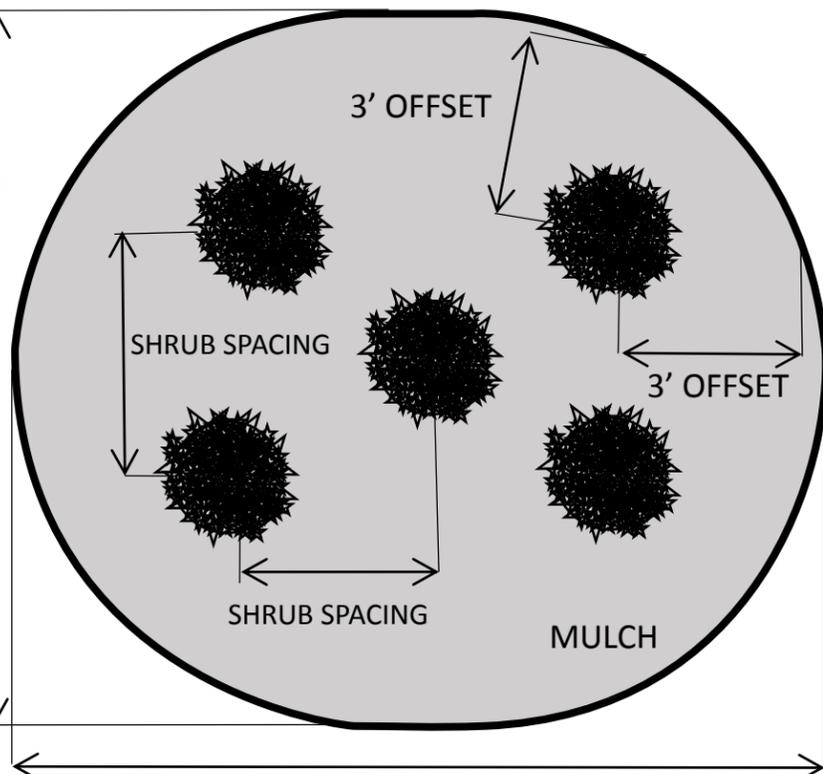
CENTER PLANTINGS BETWEEN ROW AND DITCH / SHOULDER HINGE POINT AS DIRECTED BY ENGINEER



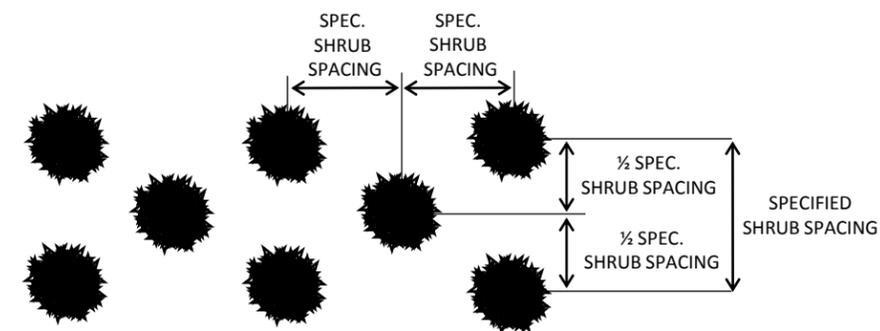
PLANT BED PLACEMENT FOR DITCH SECTIONS – MULCH RING & CLUSTERS



TREE AND MULCH RING DETAIL



SHRUB CLUSTER WITH MULCH RING DETAIL



CLUSTER SPACING DETAIL

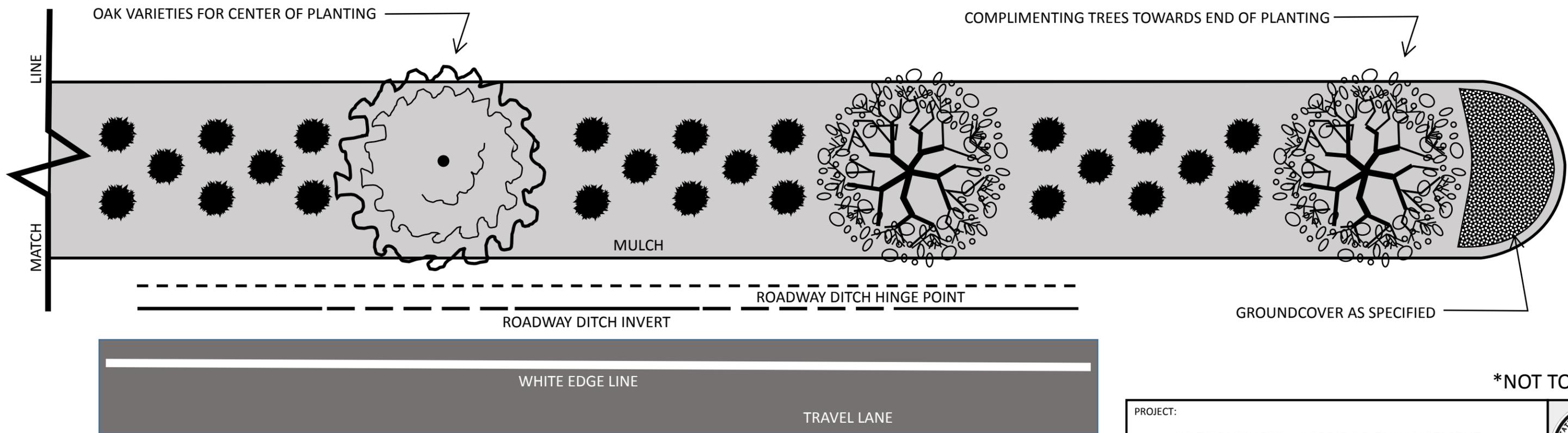
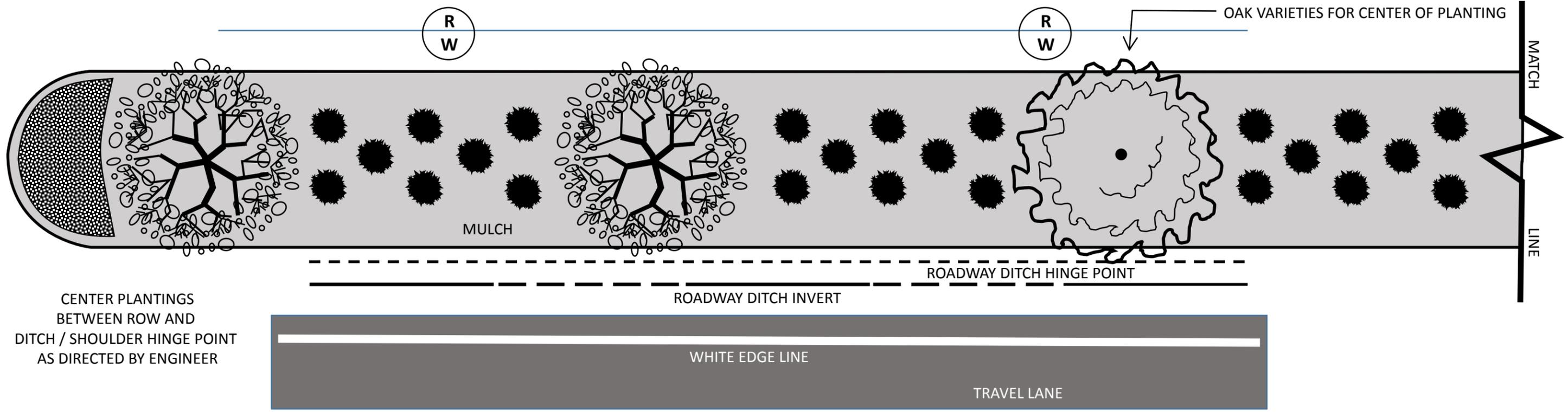
*NOT TO SCALE

PROJECT: US 70 BUSINESS – CORRIDOR ENHANCEMENT		
DIVISION: FOUR	COUNTY: JOHNSTON	SHEET: 5



PLANT BED PLACEMENT FOR DITCH SECTIONS – CONTINUOUS PLANT BED

PLANTING TYPICAL #2



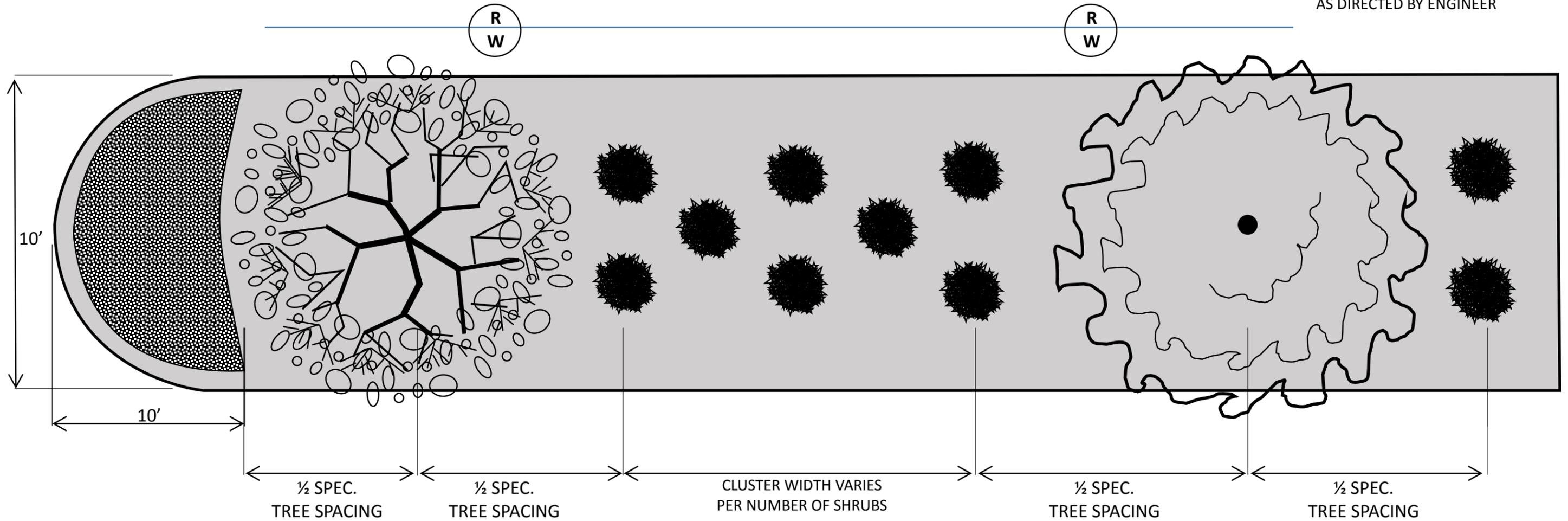
*NOT TO SCALE

PROJECT: US 70 BUSINESS – CORRIDOR ENHANCEMENT		
DIVISION: FOUR	COUNTY: JOHNSTON	SHEET: 6



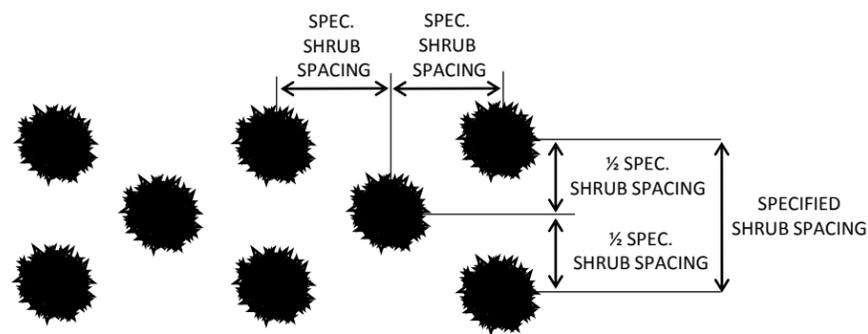
PLANTING TYPICAL #2

CENTER PLANTINGS
BETWEEN ROW AND
DITCH / SHOULDER HINGE POINT
AS DIRECTED BY ENGINEER



SPACING DETAILS

PLANT BED PLACEMENT FOR DITCH SECTIONS – CONTINUOUS PLANT BED



CLUSTER SPACING DETAIL

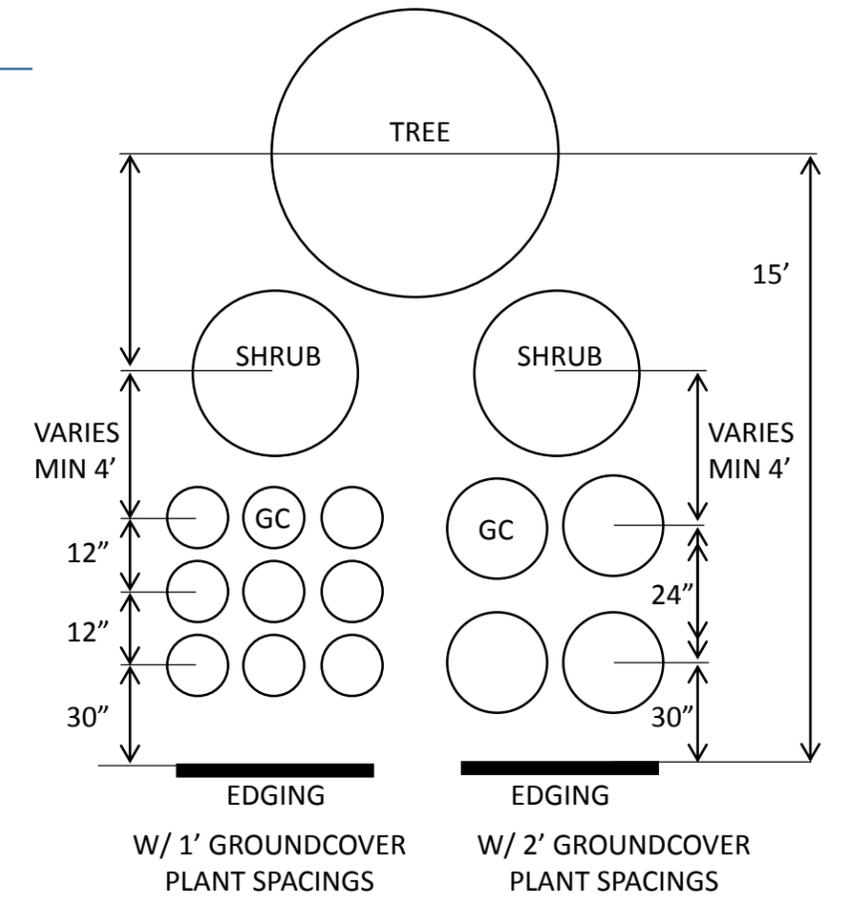
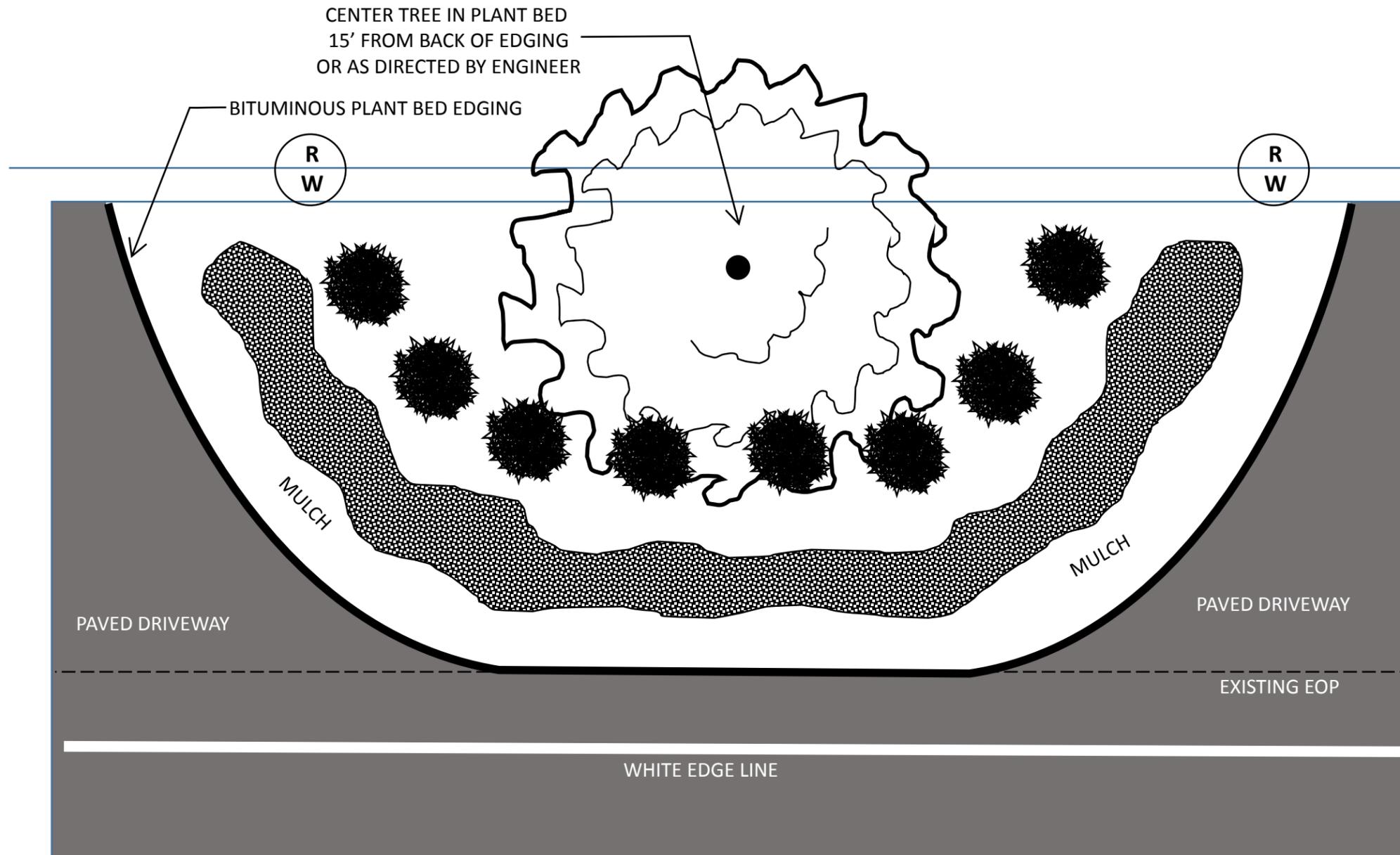
*NOT TO SCALE

PROJECT: US 70 BUSINESS – CORRIDOR ENHANCEMENT		
DIVISION: FOUR	COUNTY: JOHNSTON	SHEET: 7



PLANTING TYPICAL #3

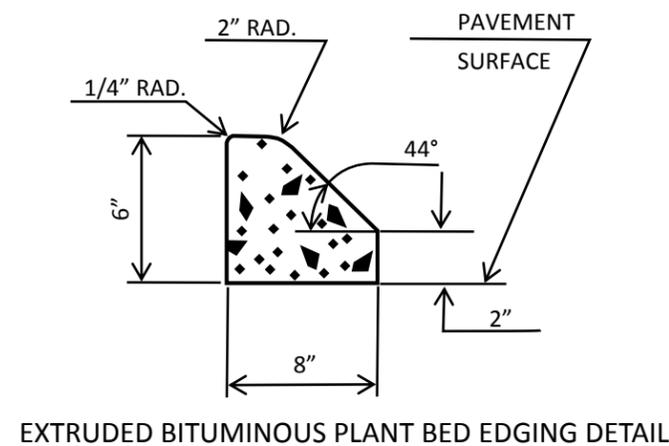
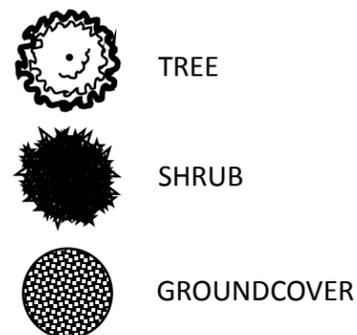
PLANT BEDS W/ EDGING 20' TO 40' LONG



* USE SPECIFIED PLANT SPACINGS FOR LATERAL PLACEMENTS

SPACING DETAILS

PLANT BED LAYOUT – EDGED PLANT BEDS

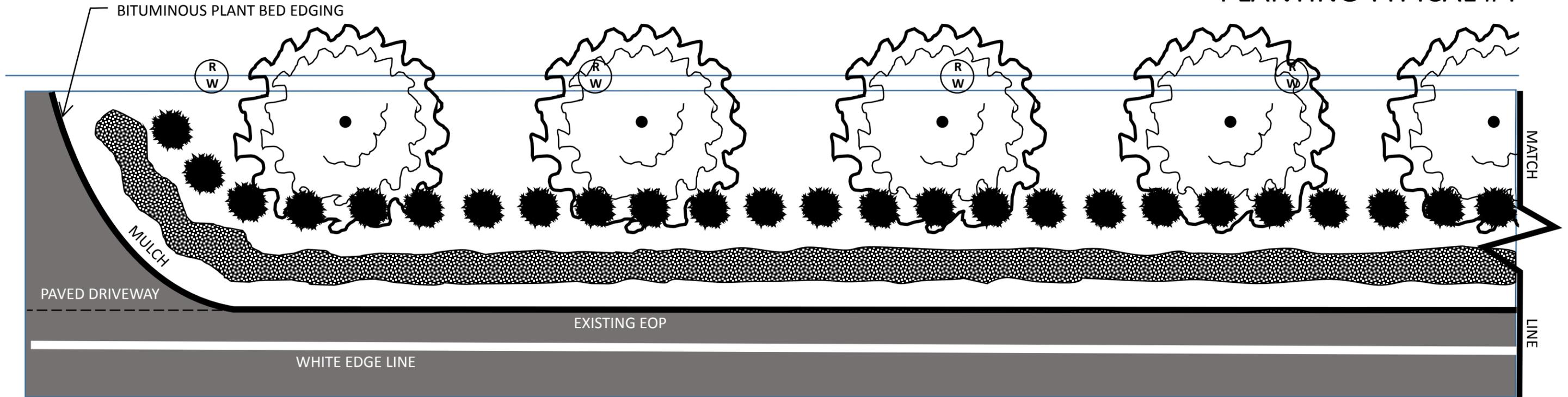


*NOT TO SCALE

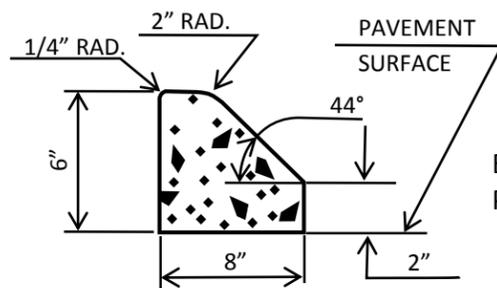
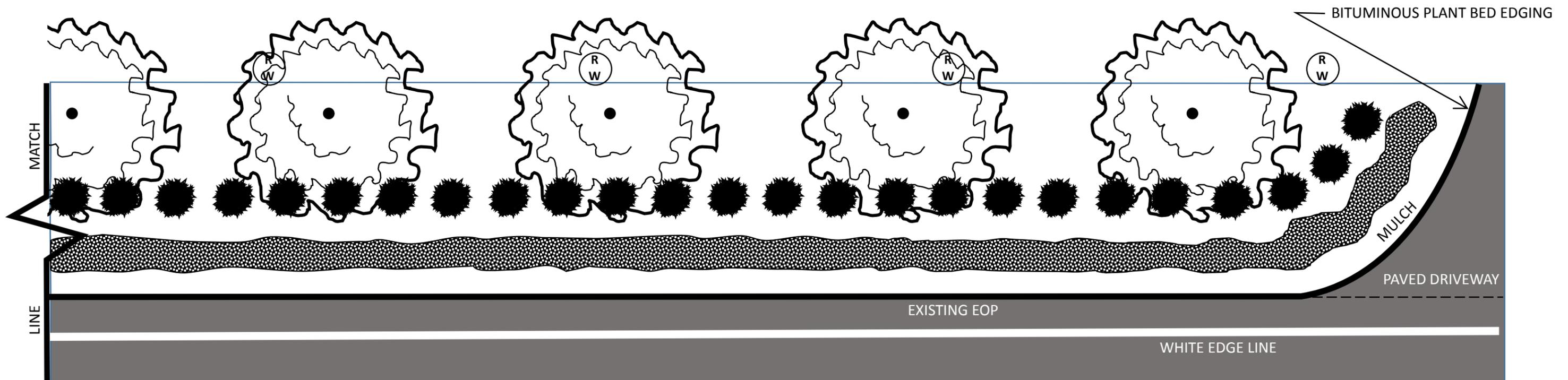
PROJECT:		
US 70 BUSINESS – CORRIDOR ENHANCEMENT		
DIVISION: FOUR	COUNTY: JOHNSTON	SHEET: 8



PLANTING TYPICAL #4



PLANT BED LAYOUT – EDGED PLANT BEDS GREATER THAN 40'



EXTRUDED BITUMINOUS PLANT BED EDGING DETAIL

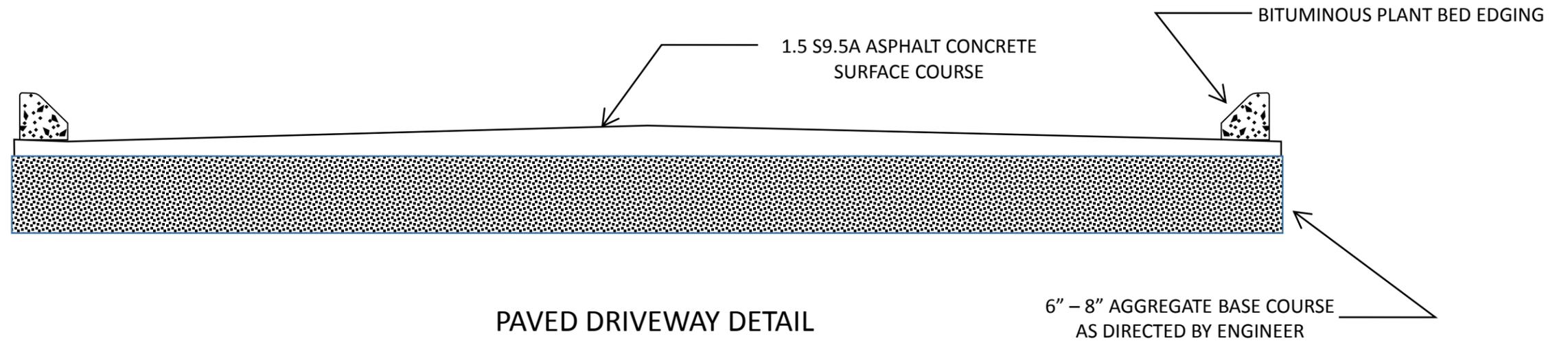
NOTE – SEE TYPICAL #3 FOR SPACING DETAILS FROM BACK OF EDGING



*NOT TO SCALE

PROJECT: US 70 BUSINESS – CORRIDOR ENHANCEMENT		
DIVISION: FOUR	COUNTY: JOHNSTON	SHEET: 9





NOTES

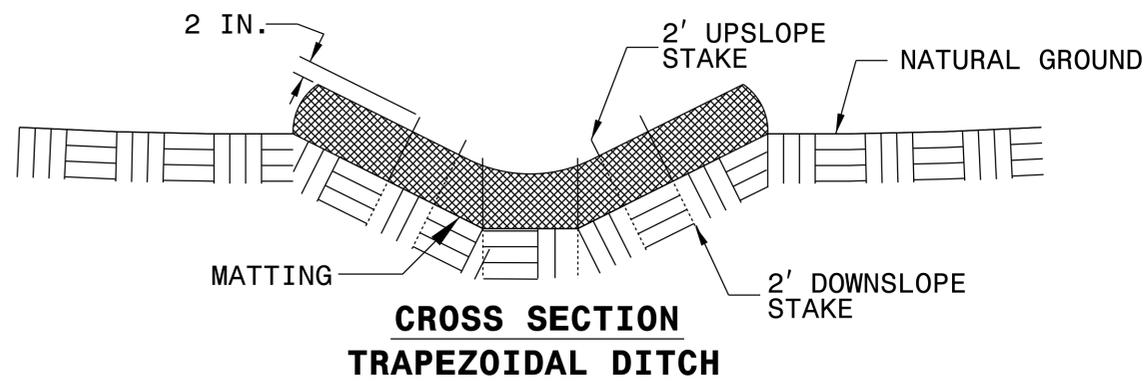
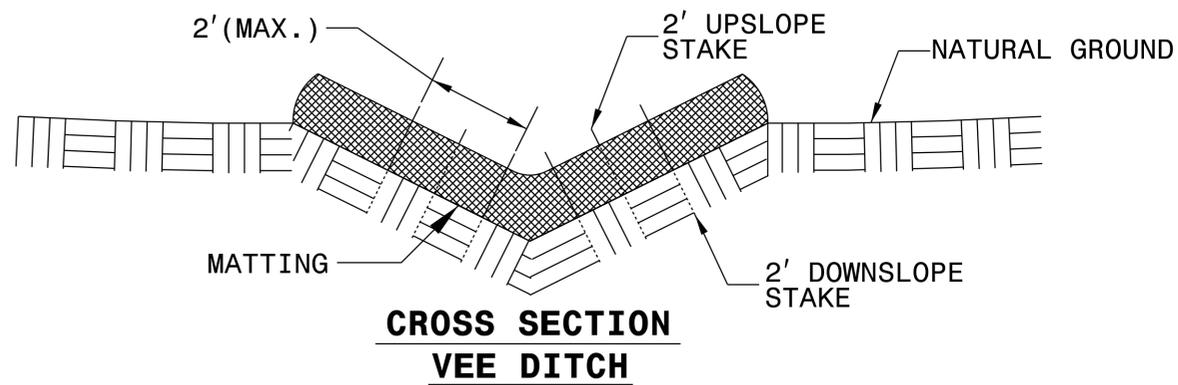
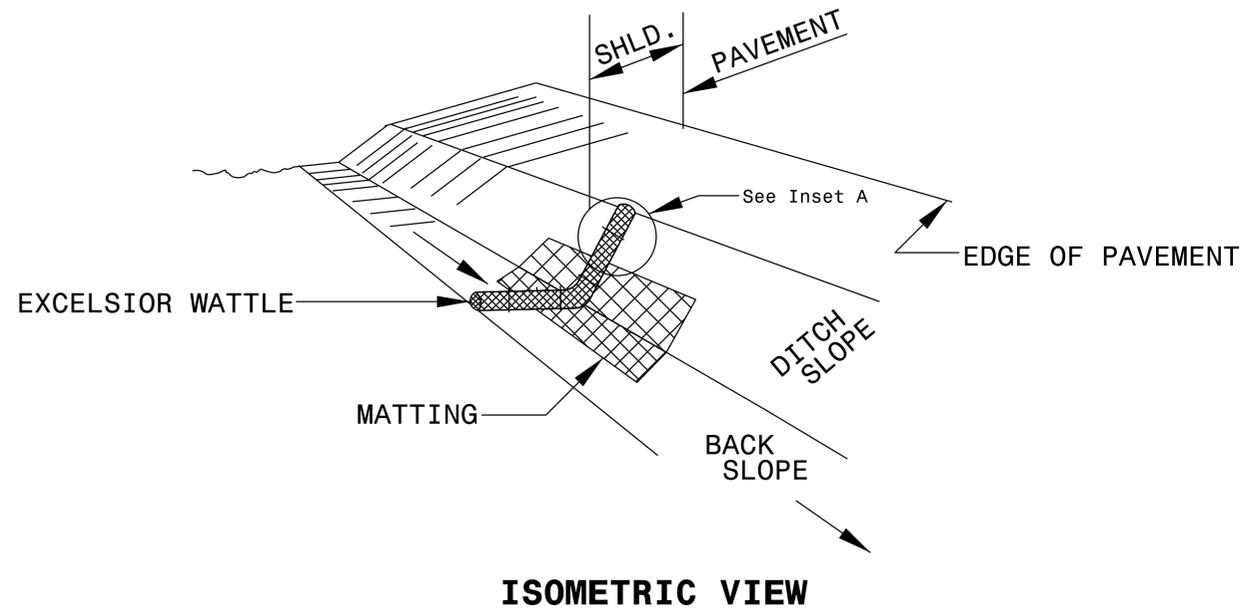
- 6" B25.0B ASPHALT CONCRETE BASE COURSE SHALL BE USED IN LIEU OF AGGREGATE BASE COURSE CENTERED AT THE FOLLOWING DRIVEWAY LOCATIONS OR AS DIRECTED BY THE ENGINEER
 - STA 27+60
 - STA 28+75
 - STA 29+97
 - STA 32+76

*NOT TO SCALE

PROJECT:		
US 70 BUSINESS – CORRIDOR ENHANCEMENT		
DIVISION: FOUR	COUNTY: JOHNSTON	SHEET: 10



WATTLE DETAIL



NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

