

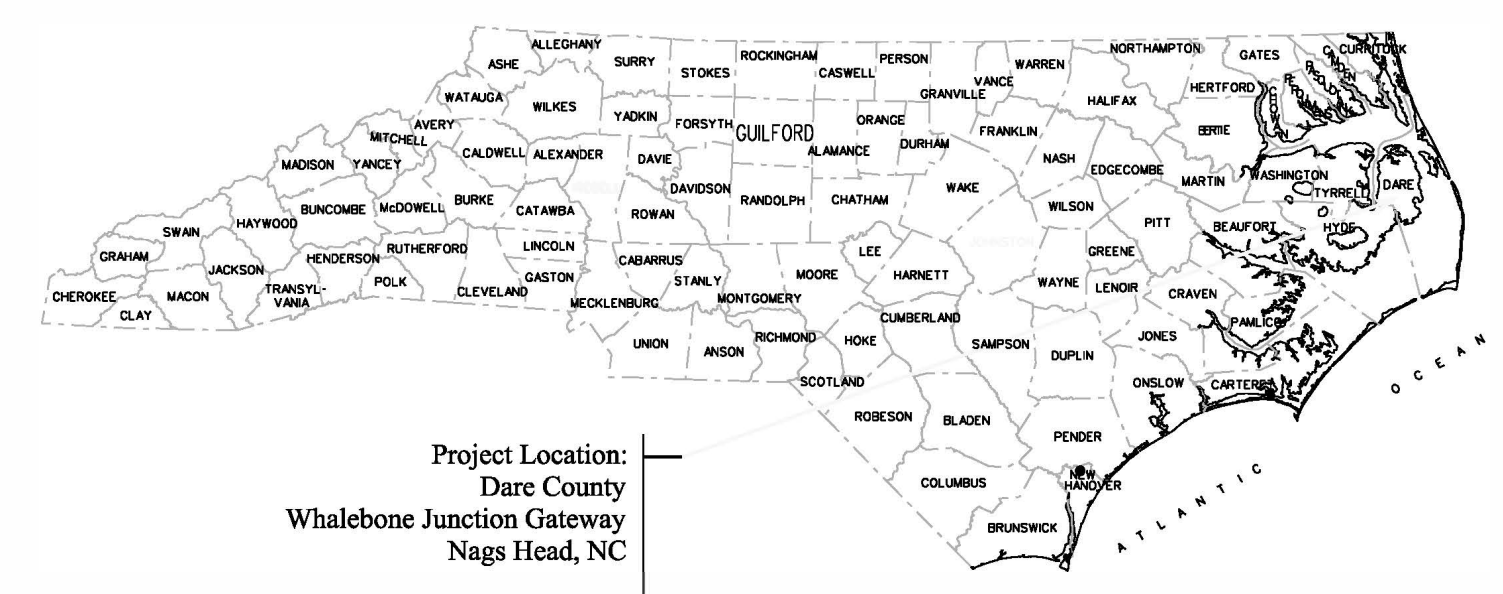
CORRIDOR ENHANCEMENT & AESTHETICS
SUSTAINABLE LANDSCAPE DESIGN & DEVELOPMENT
WHALEBONE JUNCTION, NAGS HEAD, NC



PROJECT:
Whalebone Junction Gateway

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PROPOSED ROADSIDE ENVIRONMENTAL SUSTAINABLE DESIGN & AESTHETICS PROJECT



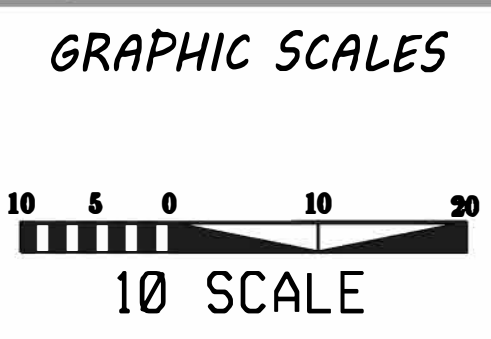
Project Location:
Dare County
Whalebone Junction Gateway
Nags Head, NC

CONVENTIONAL SYMBOLS

County Line.....	---
City or Town Line.....	---
Exist. Right of Way Line Marker.....	---
Prop. Right of Way Line Marker (By Others).....	---
Prop. Right of Way Line Marker (By Contract).....	---
Exist. Control of Access Line.....	---
Prop. Control of Access Line.....	---
Property Line.....	---
Easement Line.....	---
Slope Stake Line.....	---
Exist. Fence.....	---
Prop. Woven Wire Fence.....	---
Prop. Chain Link Fence.....	---
Exist. Road.....	---
Prop. Road.....	---
Guardrail.....	---
Survey Line.....	---
Denotes Line Equality.....	---
Bridge.....	---
Culvert.....	---
Railroad.....	---
Woods.....	---
Exist. Telephone Pole.....	---
Prop. Telephone Pole.....	---
Tower Pole and Line.....	---
Exist. Power Pole.....	---
Prop. Power Pole.....	---
Sanitary Sewer Line.....	---
Water Line.....	---
Gas Line.....	---
Picnic Shelter.....	---
Regeneration.....	---
Reforestation.....	---
Large Deciduous Tree.....	---
Evergreen Tree.....	---
Small or Flowering Tree.....	---
Shrubs.....	---
Planting Bed.....	---

Summary of Quantities

Grasses/Groundcovers/Perennials									
L	1670	44	ea	PV	Panicum virgatum 'Heavy Metal'	Heavy Metal Switchgrass	6-12"; 1 gal.	2' O.C.	13.4
L	1670	3	tray	SS	Schizanthium scoparium 'Blaze'	Blaze Little Bluestem	2 per tray, 2.5" line	2' O.C.	13.4
L	1670	8	ea	YF	Yucca filamentosa	Yucca	6-12"; 3 gal.	2' O.C.	13.1.1
L	1670	12	ea	LC	Lantana camara	Lantana	6-12"; 1 gal.	2' O.C.	13.1.1
L	1670	88	ea	MC	Muhlenbergia capillaris	Pink Muhly Grass	18-24"; 1 gal.	2' O.C.	13.4
Other Vegetation Costs									
L	sp	0.2	acre		Selective Vegetation Removal			beds with stumps and Daylily bed	
L	1670	12	ea		Monthly Establishment				
L	1670	130	cy		Mulch for Planting			Depth of 4"	
L	1670	1070	sy		Pre emergence Herbicidal Treatment				
L	1670	1070	sy		Post emergence Herbicidal Treatment				
L	sp		ls		Glass Plus CMU Columns (6)				
L	sp		ls		Spectra Glaze Cap (6)				
L	sp		ls		Metal Post				
L	sp		ls		Concrete Footing and Slab				
L	sp		ls		Core Drilled Post Hole				
L	sp		ls		Powder Coating				
L	876	11	ton		Rip Rap			Class B; 5-12"	
L	1664	1,452	sq. yd.		Sodding (Tifway 419 Bermuda) (10' x 16' x 1/2")				
L	1670	18	mg		Water for Planting				



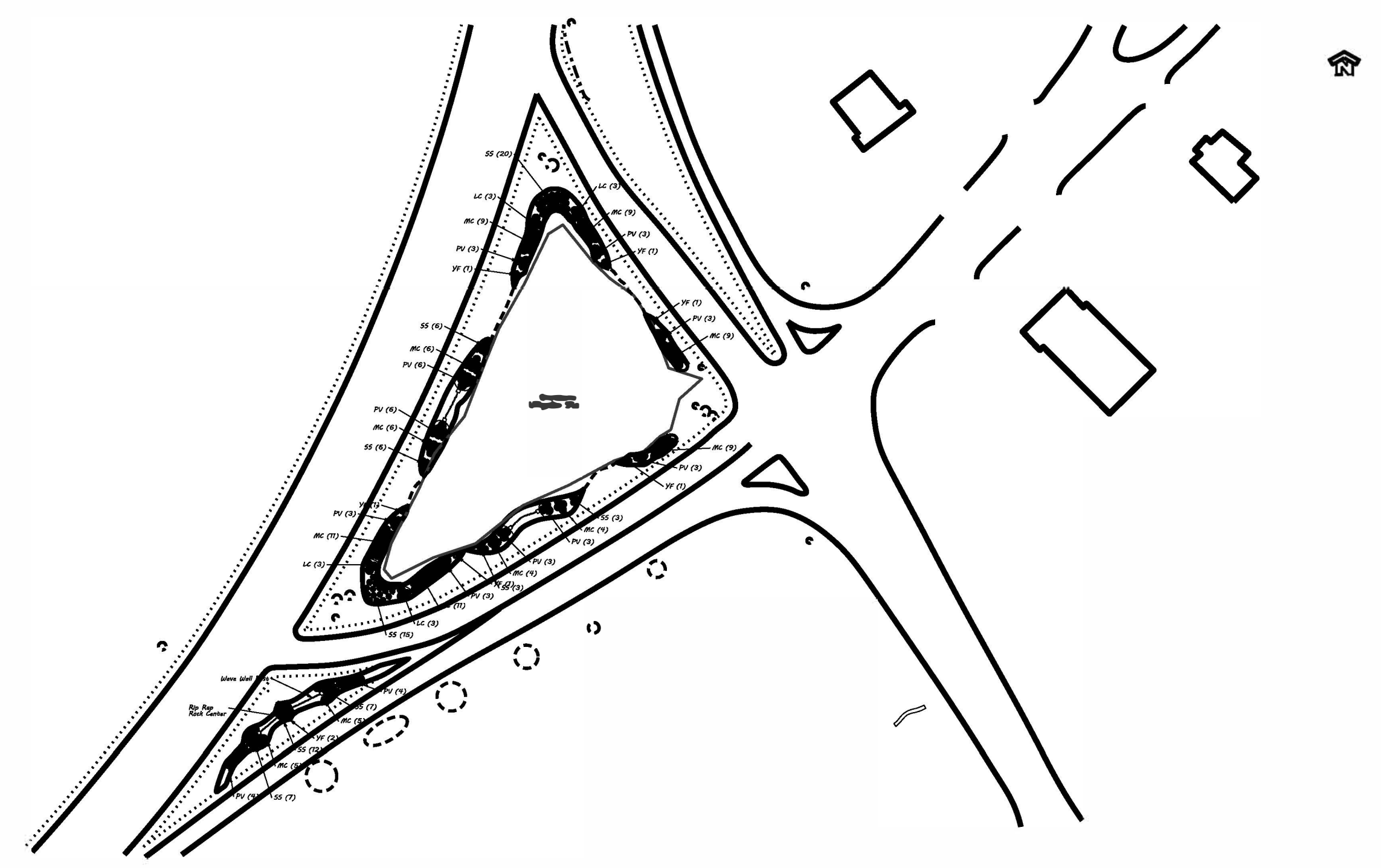
Designed By: Tony Sumter 3/2023

Revisions By:

DATE	DESCRIPTION
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INDEX OF (L) SHEETS:

- L1 - TITLE SHEET
- L2 - PLANTING DETAILS
- L3 - WALL DETAILS
- L4 - LANDSCAPE PLANTING PLAN VIEW A
- L5 - LANDSCAPE PLANTING PLAN VIEW B AND WALL VIEW 1
- L6 - LANDSCAPE PLANTING PLAN VIEW C
- L7 - LANDSCAPE PLANTING PLAN VIEW D
- L8 - LANDSCAPE PLANTING WALL VIEW 2



STATE OF
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

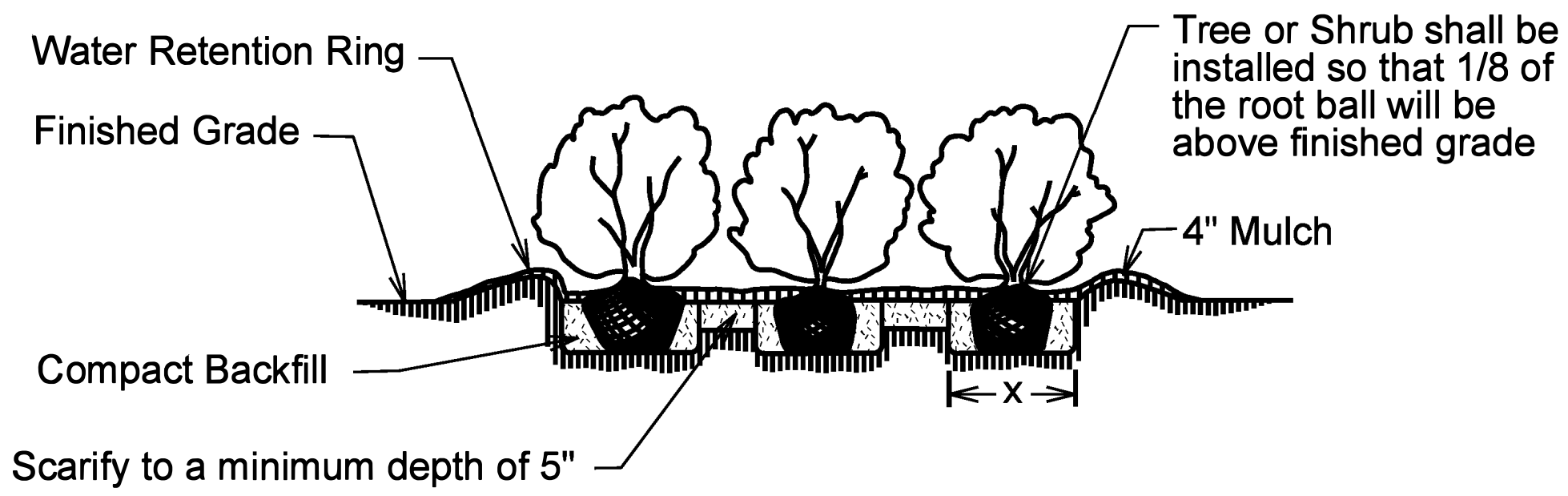
LOCATION: Nags Head, NC (Whalebone Junction)

TYPE of WORK: Enhancement Design

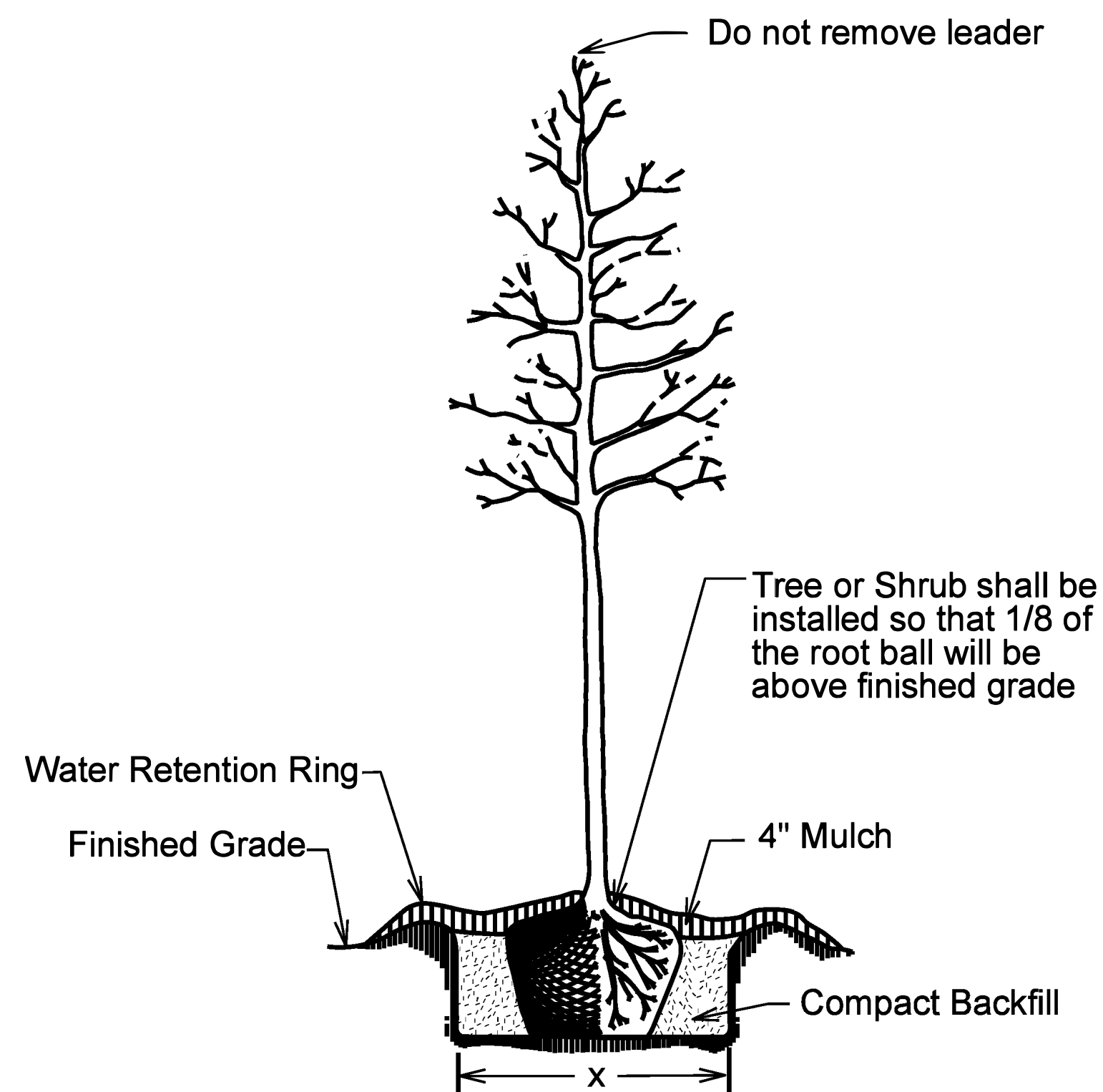
COUNTY: Dare County

2024 STANDARD SPECIFICATIONS

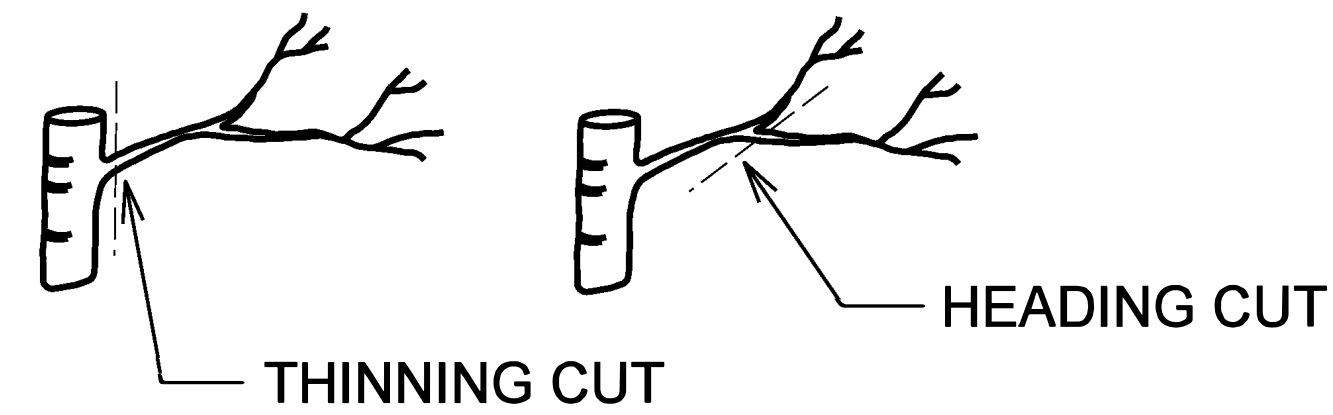
PREPARED IN THE OFFICE OF:
NCDOT- ROADSIDE ENVIRONMENTAL UNIT
DESIGN & DEVELOPMENT SECTION
1557 MAIL SERVICE CENTER
RALEIGH NC 27699 919-707-2920



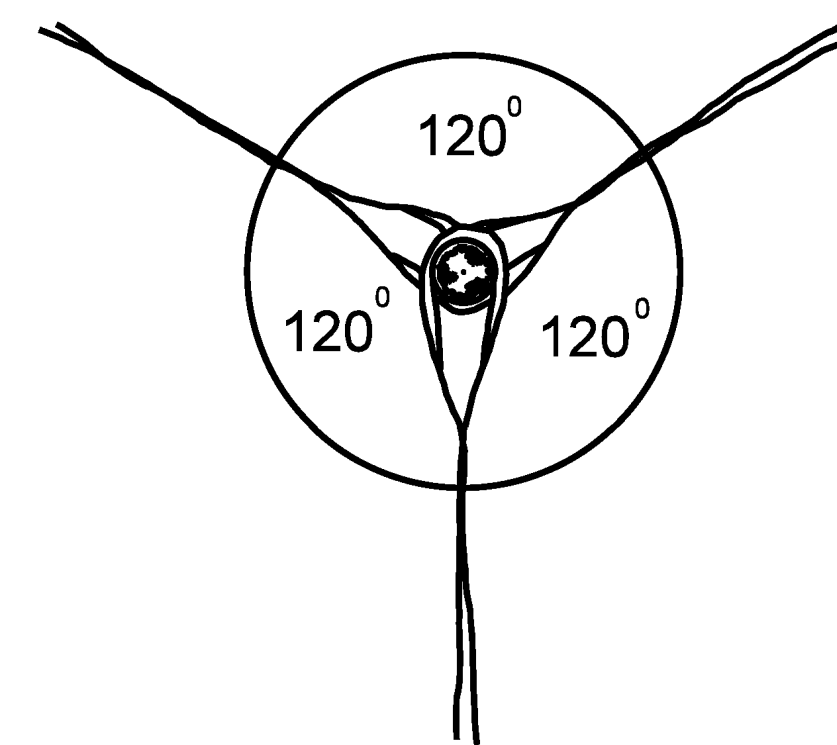
Shrub Bed Planting Detail



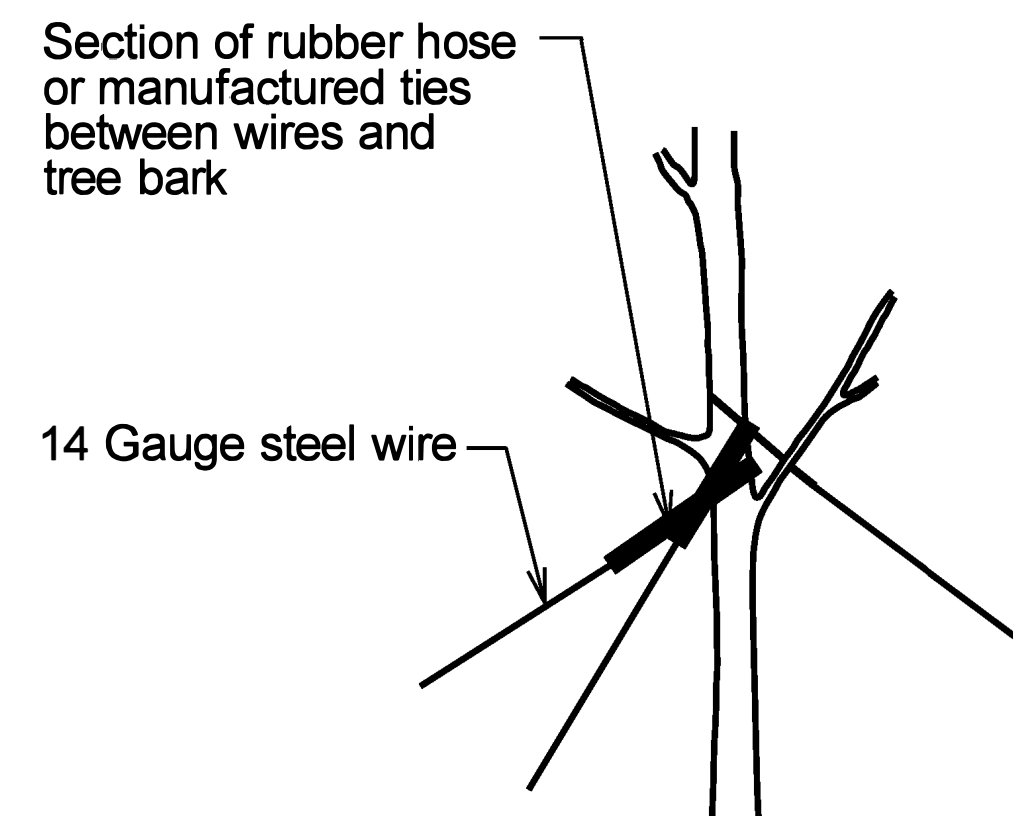
TREE OR SHRUB PLANTING DETAIL
(LEVEL GROUND)



PRUNING CUTS



GUY SPACING DETAIL



GUY TYING DETAIL

NOTES:

SCHEDULE FOR PLANT HOLE SIZE:
CONTAINER OR ROOT BALL SIZE

$X = 2$ TIMES THE DIAMETER OF THE CONTAINER
OR THE ROOT BALL DIAMETER

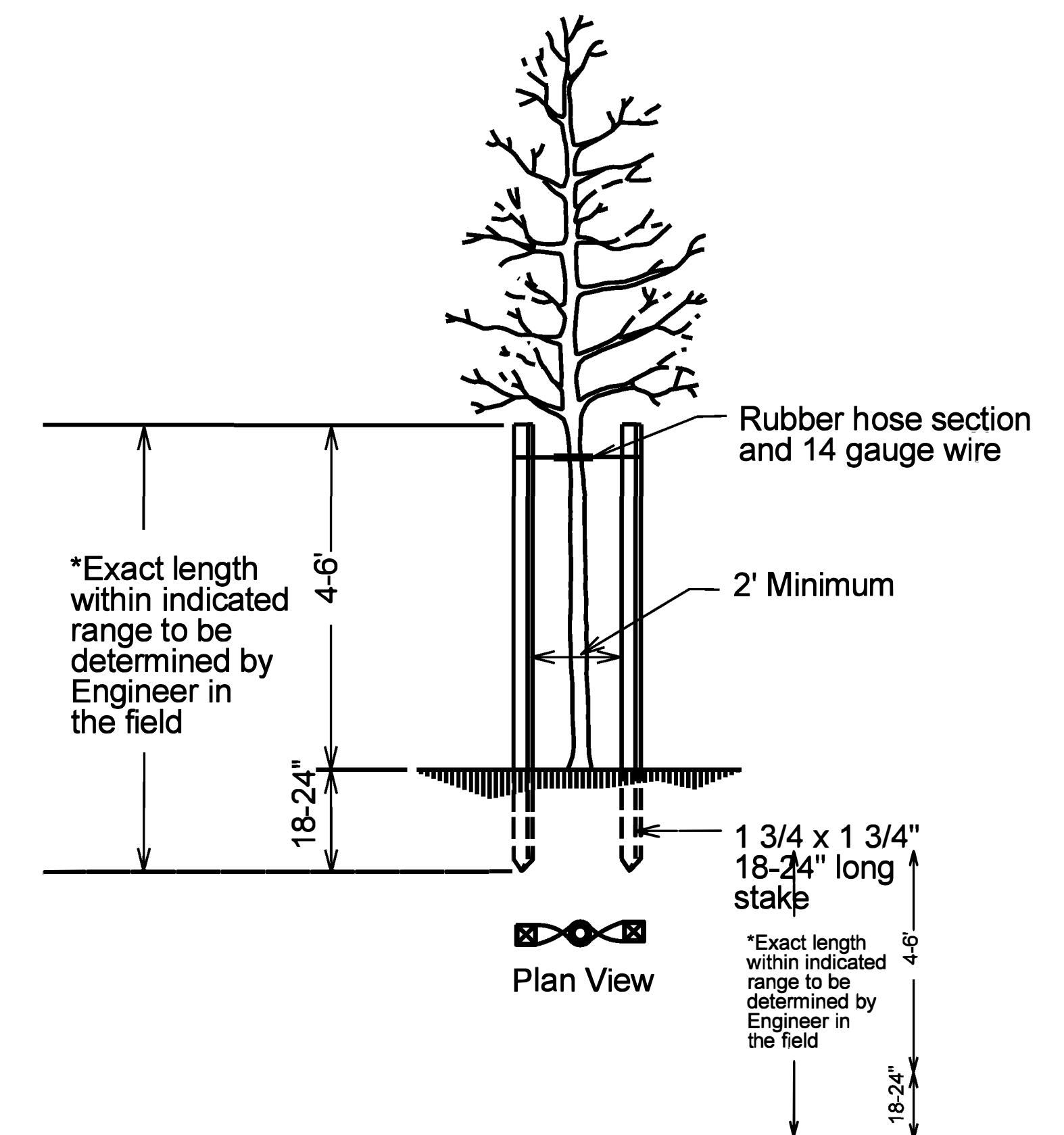
FERTILIZER SHALL BE APPLIED AT TIME OF PLANTING..
FERTILIZER SHALL BE A SLOW RELEASE PELLET OR
TABLET. FORMULATION SHALL BE APPROVED BY ENGINEER
IN THE FIELD.

RATES SHALL BE PER MANUFACTURERS RECOMMENDATIONS
AND APPROVED BY THE ENGINEER IN THE FIELD.
THOROUGHLY MIX WITH TOPSOIL, BACKFILL OR
SCARIFIED SOIL.

REMOVE BURLAP FROM TOP OF BALL BEFORE
BACKFILLING AROUND BALL IS COMPLETE

SEE STANDARD SPECIFICATIONS FOR PLANT
BED HERBICIDE TREATMENT

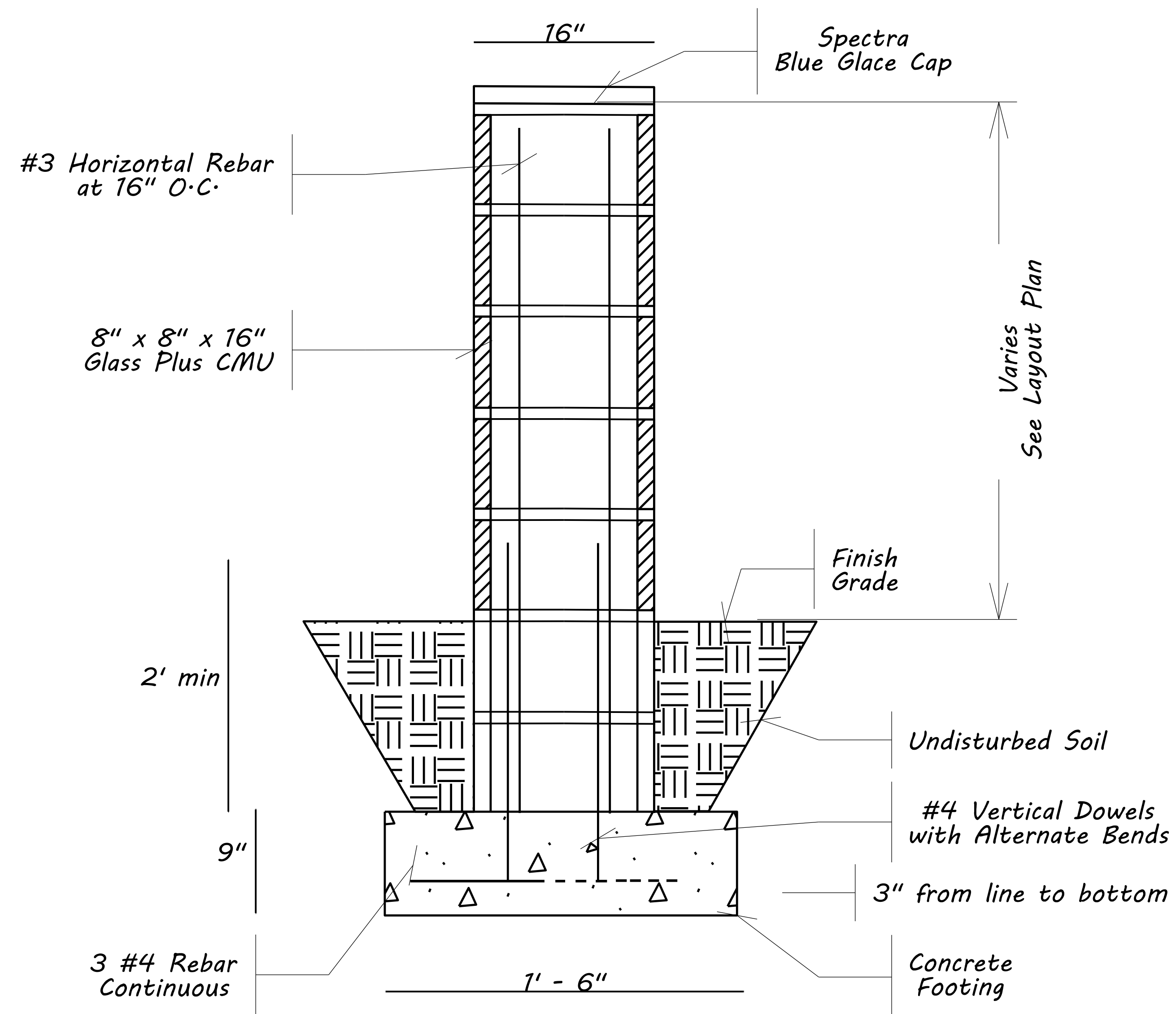
When mulched bed is adjacent to guard rail run
mulch to front edge of guard rail - see detail



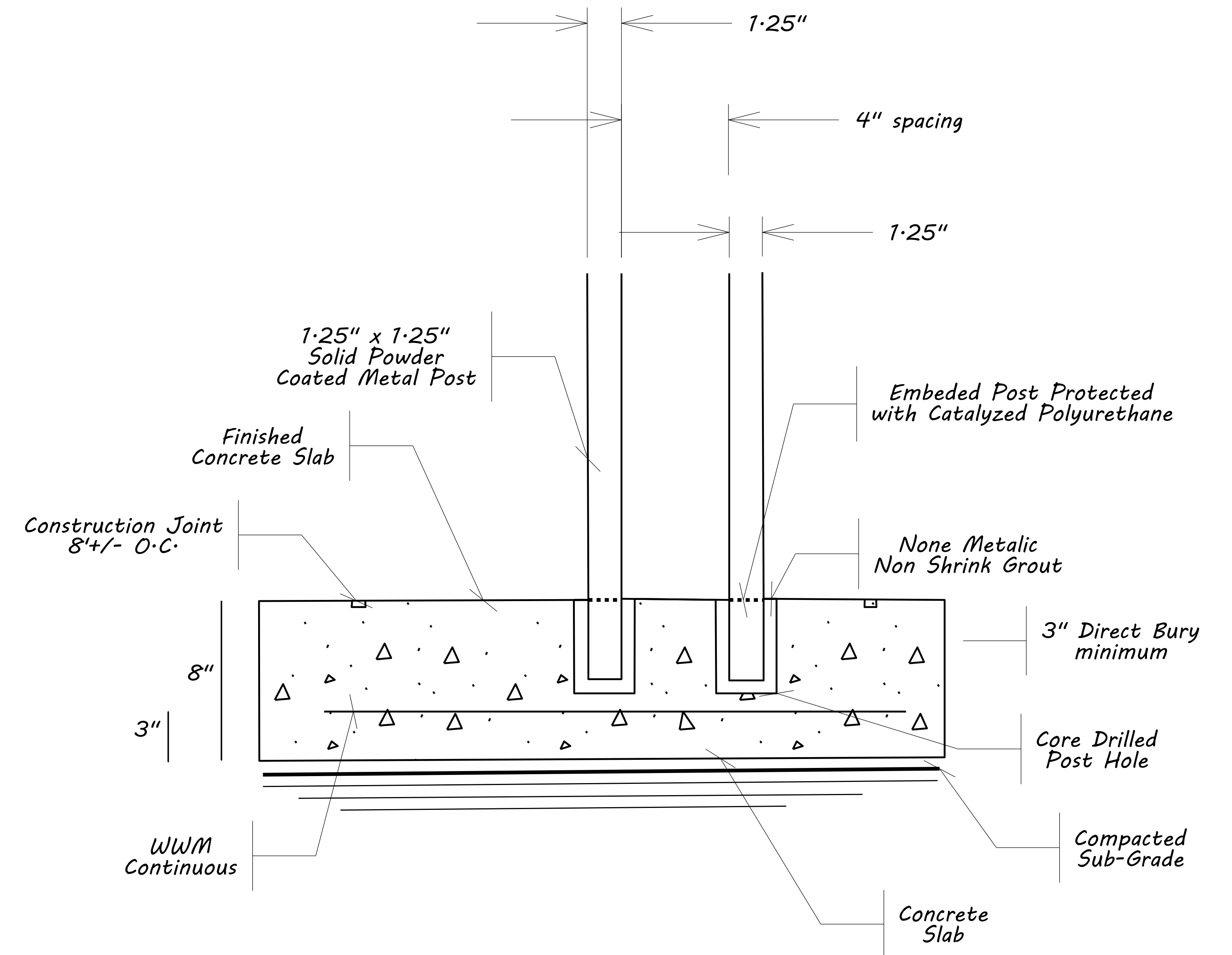
STAKING DETAIL

(FOR TREES 6' TO 10')

* Utilize staking detail only if requested by the Engineer.



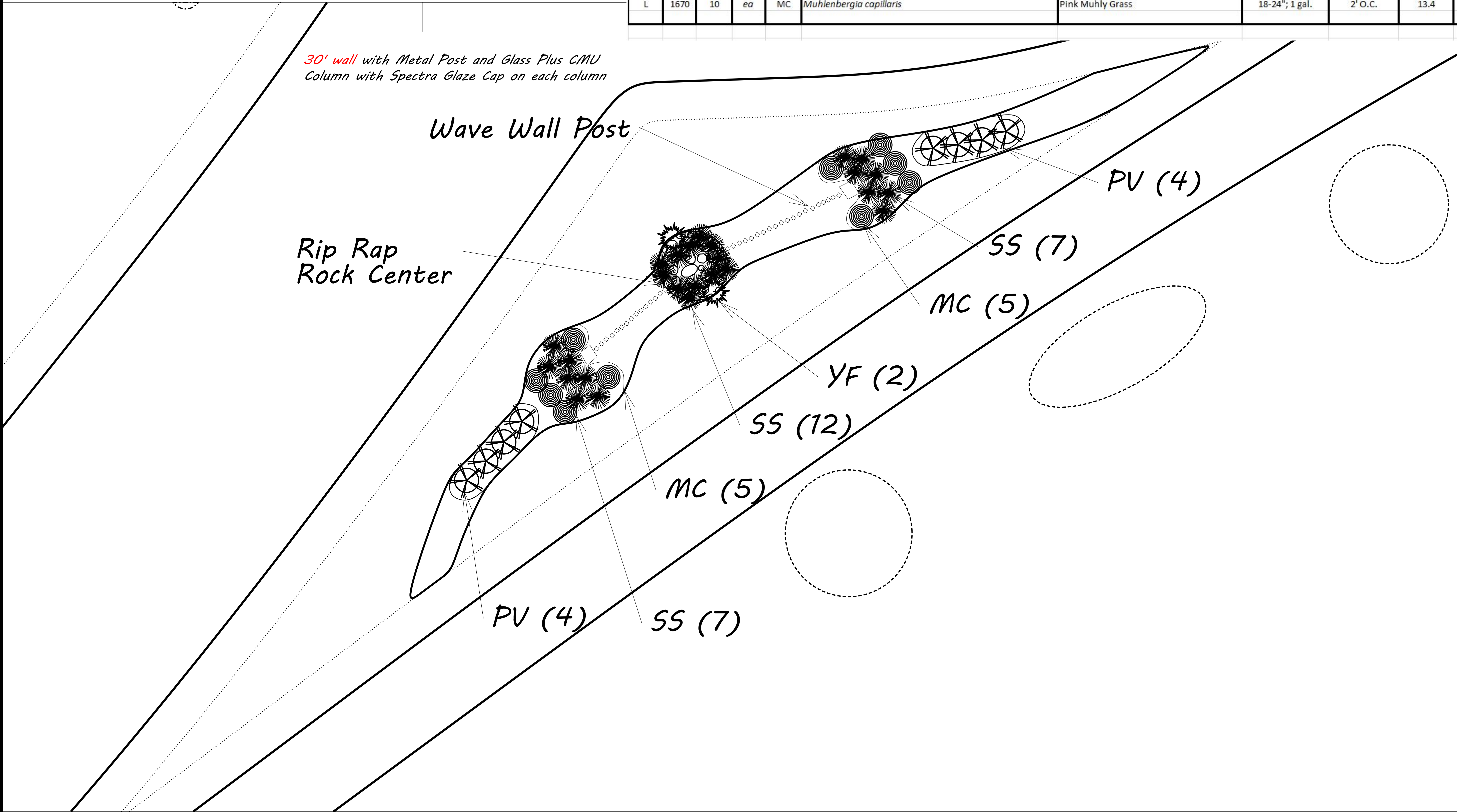
CONCRETE FOOTING DETAIL



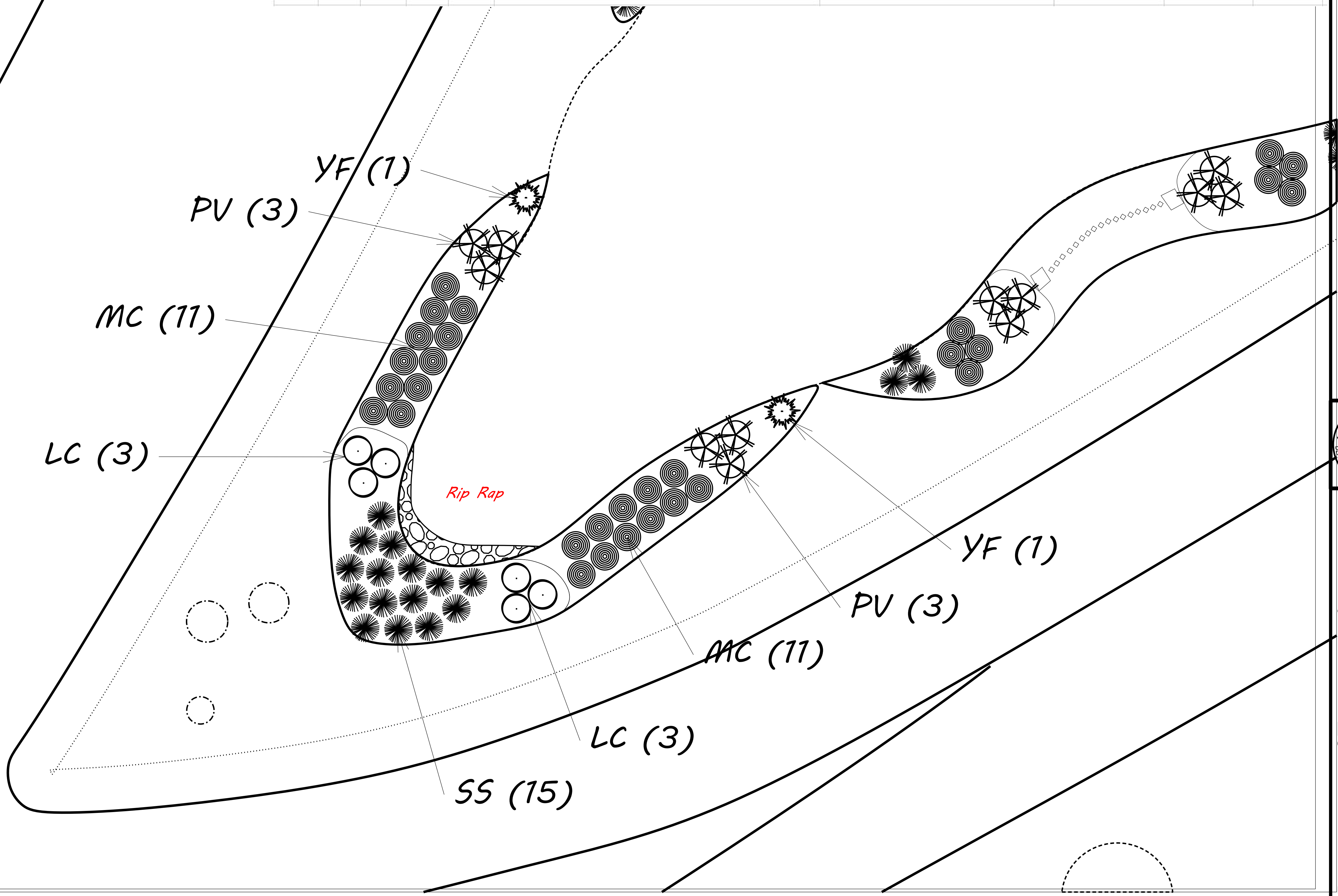
METAL RAILING DETAIL



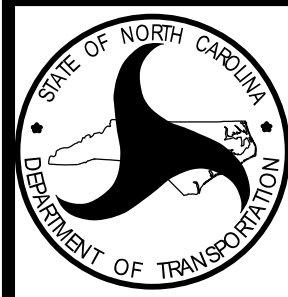
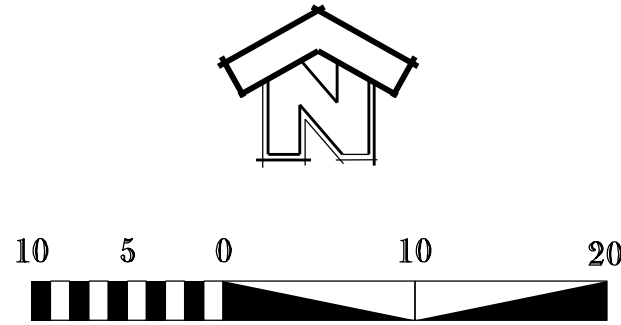
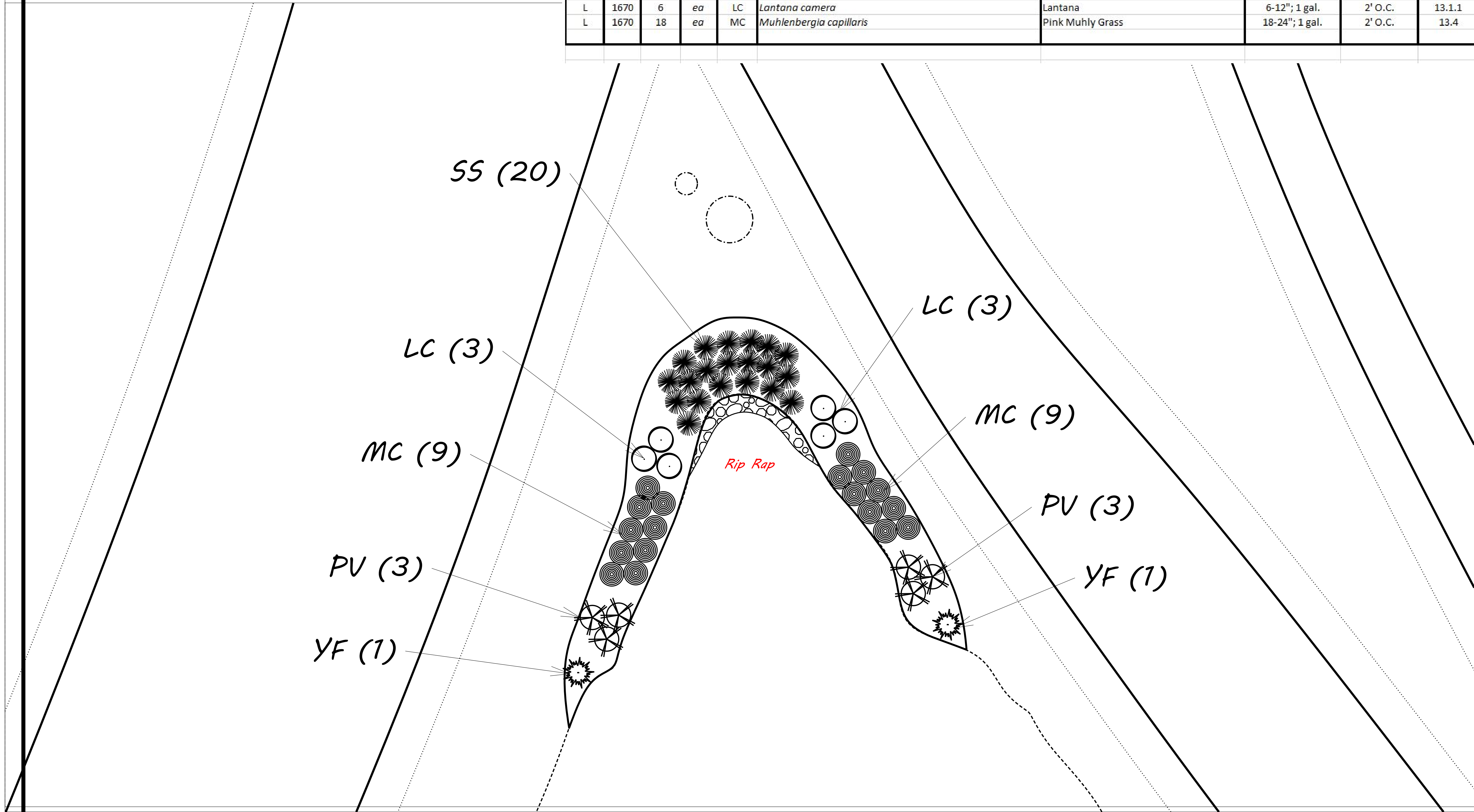
					Grasses/Groundcovers/Perennials				
L	1670	8	ea	PV	<i>Panicum virgatum</i> 'Heavy Metal'	Heavy Metal Switchgrass	6-12"; 1 gal.	2' O.C.	13.4
L	1670	26	ea	SS	<i>Schizachyrium scoparium</i> 'Blaze'	Blaze Little Bluestem	32 per tray, 2.5" line	2' O.C.	13.4
L	1670	2	ea	YF	<i>Yucca filamentosa</i>	Yucca	6-12"; 1 gal.	2' O.C.	13.1.1
L	1670		ea	LC	<i>Lantana camera</i>	Lantana	6-12"; 1 gal.	2' O.C.	13.1.1
L	1670	10	ea	MC	<i>Muhlenbergia capillaris</i>	Pink Muhly Grass	18-24"; 1 gal.	2' O.C.	13.4



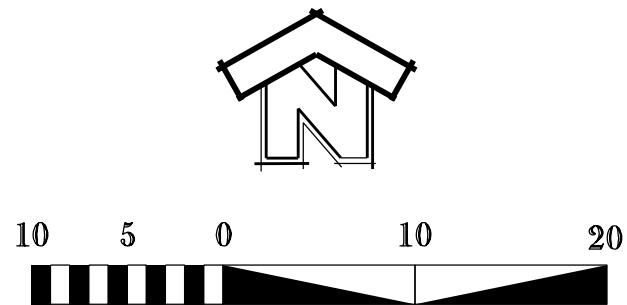
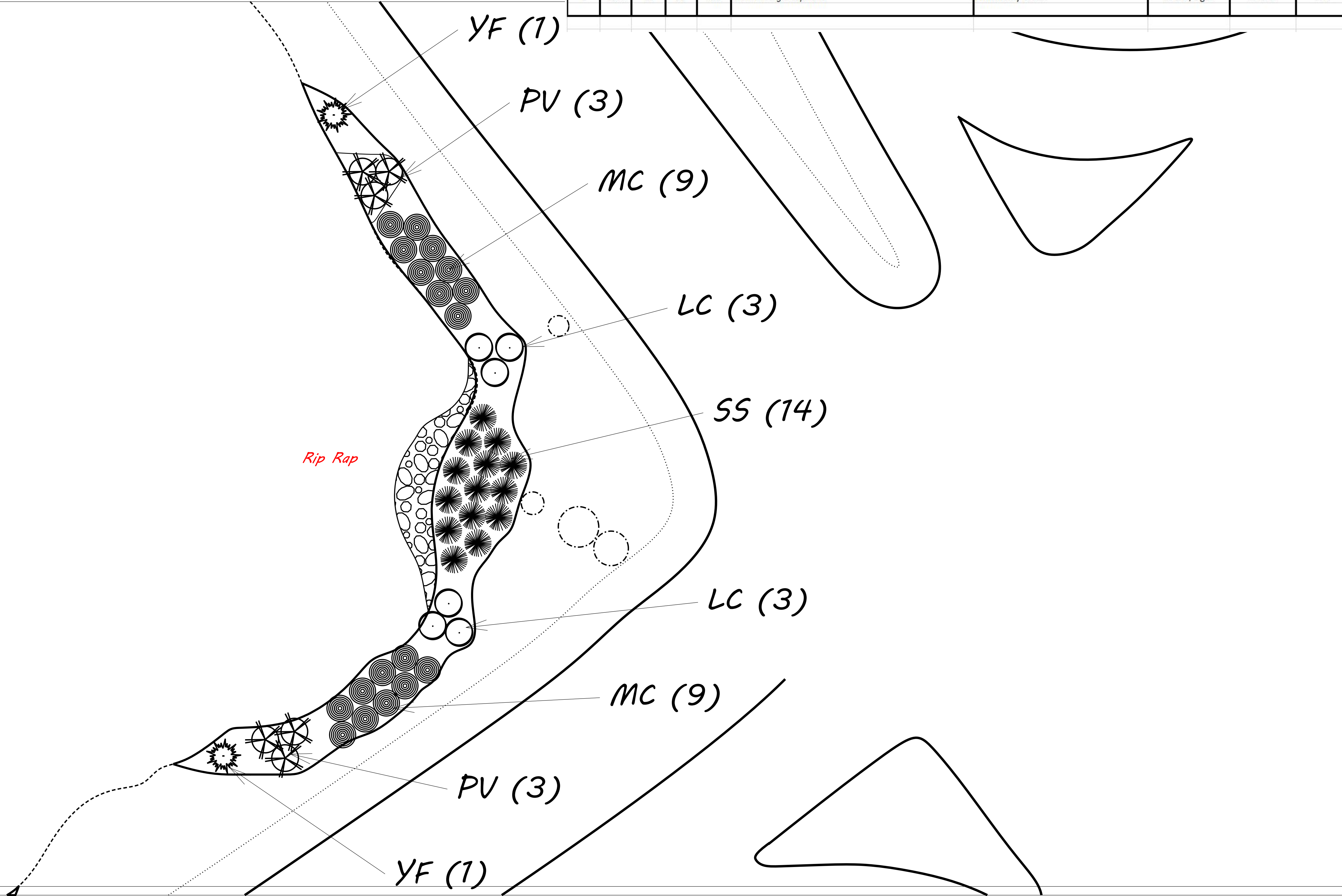
Grasses/Groundcovers/Perennials									
L	1670	6	ea	PV	<i>Panicum virgatum</i> 'Heavy Metal'	Heavy Metal Switchgrass	6-12"; 1 gal.	2' O.C.	13.4
L	1670	15	ea	SS	<i>Schizachyrium scoparium</i> 'Blaze'	Blaze Little Bluestem	32 per tray, 2.5" line	2' O.C.	13.4
L	1670	2	ea	YF	<i>Yucca filamentosa</i>	Yucca	6-12"; 1 gal.	2' O.C.	13.1.1
L	1670	6	ea	LC	<i>Lantana camera</i>	Lantana	6-12"; 1 gal.	2' O.C.	13.1.1
L	1670	22	ea	MC	<i>Muhlenbergia capillaris</i>	Pink Muhly Grass	18-24"; 1 gal.	2' O.C.	13.4



					Grasses/Groundcovers/Perennials				
L	1670	6	ea	PV	<i>Panicum virgatum</i> 'Heavy Metal'	Heavy Metal Switchgrass	6-12"; 1 gal.	2' O.C.	13.4
L	1670	20	ea	SS	<i>Schizachyrium scoparium</i> 'Blaze'	Blaze Little Bluestem	32 per tray, 2.5" line	2' O.C.	13.4
L	1670	2	ea	YF	<i>Yucca filamentosa</i>	Yucca	6-12"; 1 gal.	2' O.C.	13.1.1
L	1670	6	ea	LC	<i>Lantana camera</i>	Lantana	6-12"; 1 gal.	2' O.C.	13.1.1
L	1670	18	ea	MC	<i>Muhlenbergia capillaris</i>	Pink Muhly Grass	18-24"; 1 gal.	2' O.C.	13.4



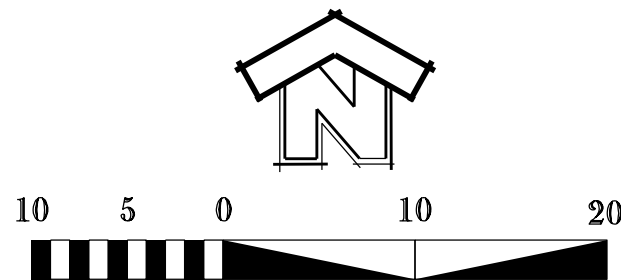
Grasses/Groundcovers/Perennials									
L	1670	6	ea	PV	<i>Panicum virgatum</i> 'Heavy Metal'	Heavy Metal Switchgrass	6-12"; 1 gal.	2' O.C.	13.4
L	1670	14	ea	SS	<i>Schizachyrium scoparium</i> 'Blaze'	Blaze Little Bluestem	32 per tray, 2.5" line	2' O.C.	13.4
L	1670	2	ea	YF	<i>Yucca filamentosa</i>	Yucca	6-12"; 1 gal.	2' O.C.	13.1.1
L	1670	6	ea	LC	<i>Lantana camera</i>	Lantana	6-12"; 1 gal.	2' O.C.	13.1.1
L	1670	18	ea	MC	<i>Muhlenbergia capillaris</i>	Pink Muhly Grass	18-24"; 1 gal.	2' O.C.	13.4

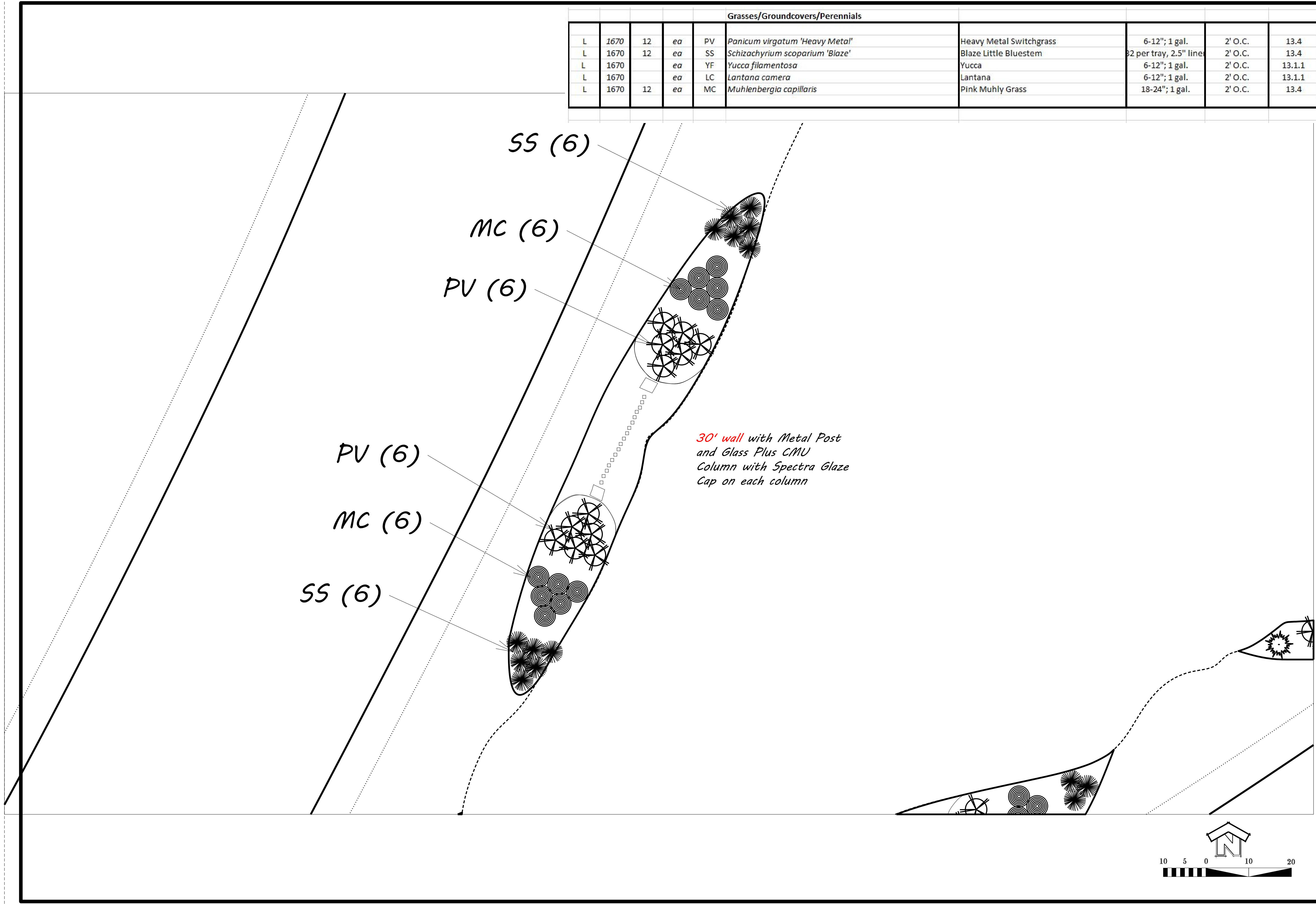


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L	1670	6	ea	PV	<i>Panicum virgatum</i> 'Heavy Metal'	Heavy Metal Switchgrass	6-12"; 1 gal.	2' O.C.	13.4
L	1670	6	ea	SS	<i>Schizachyrium scoparium</i> 'Blaze'	Blaze Little Bluestem	32 per tray, 2.5" line	2' O.C.	13.4
L	1670		ea	YF	<i>Yucca filamentosa</i>	Yucca	6-12"; 1 gal.	2' O.C.	13.1.1
L	1670		ea	LC	<i>Lantana camera</i>	Lantana	6-12"; 1 gal.	2' O.C.	13.1.1
L	1670	8	ea	MC	<i>Muhlenbergia capillaris</i>	Pink Muhly Grass	18-24"; 1 gal.	2' O.C.	13.4

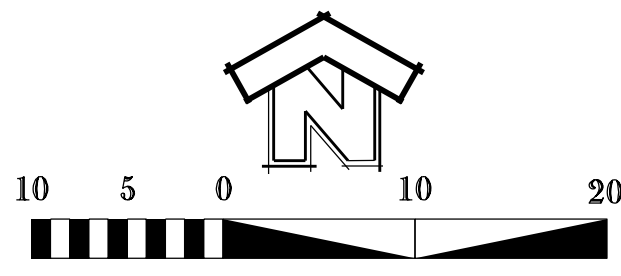
30' wall with Metal Post and Glass Plus CMU Column with Spectra Glaze Cap on each column

SS (3)
MC (4)
PV (3)
PV (3)
MC (4)
SS (3)



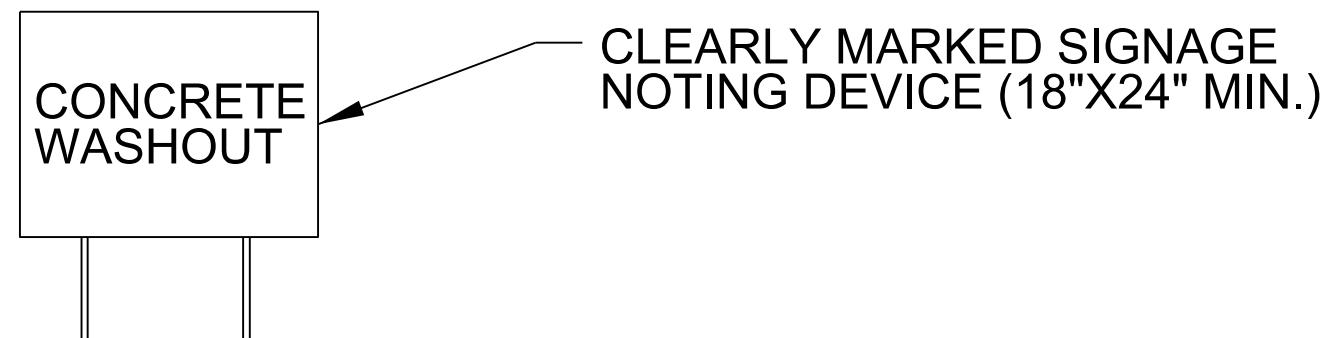
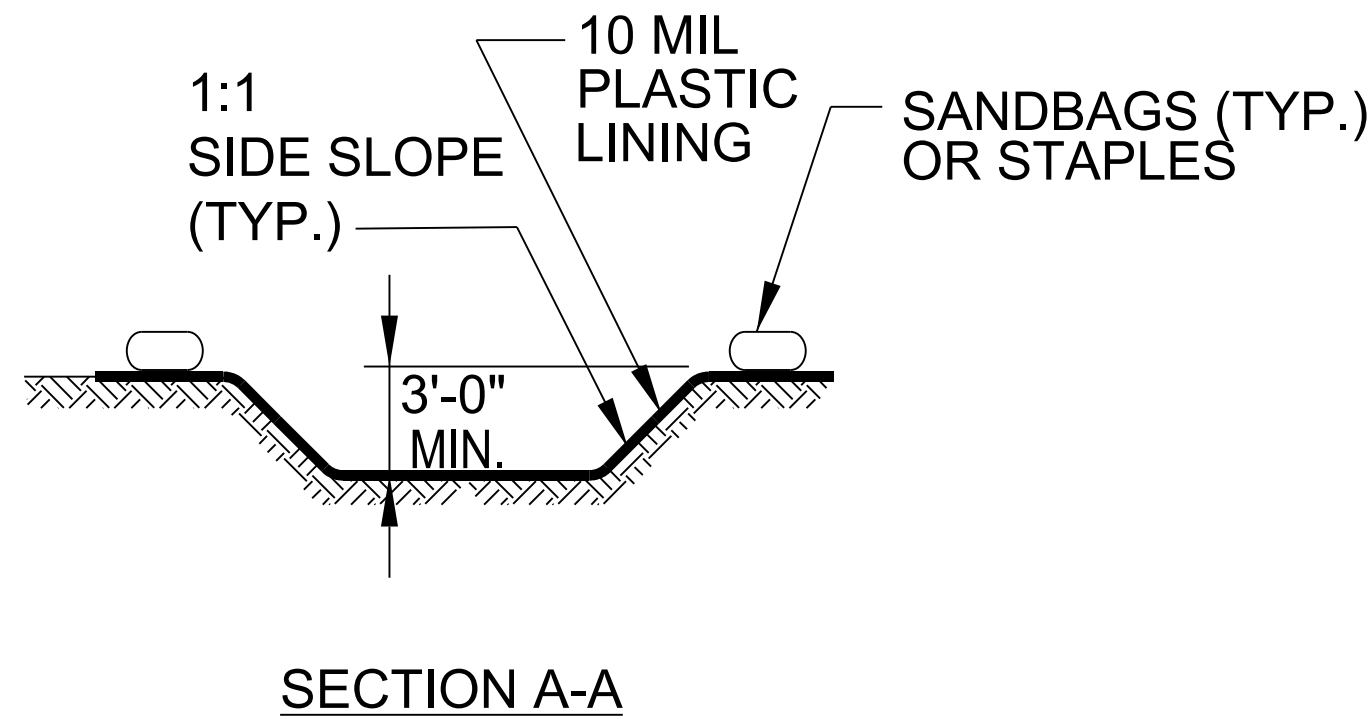
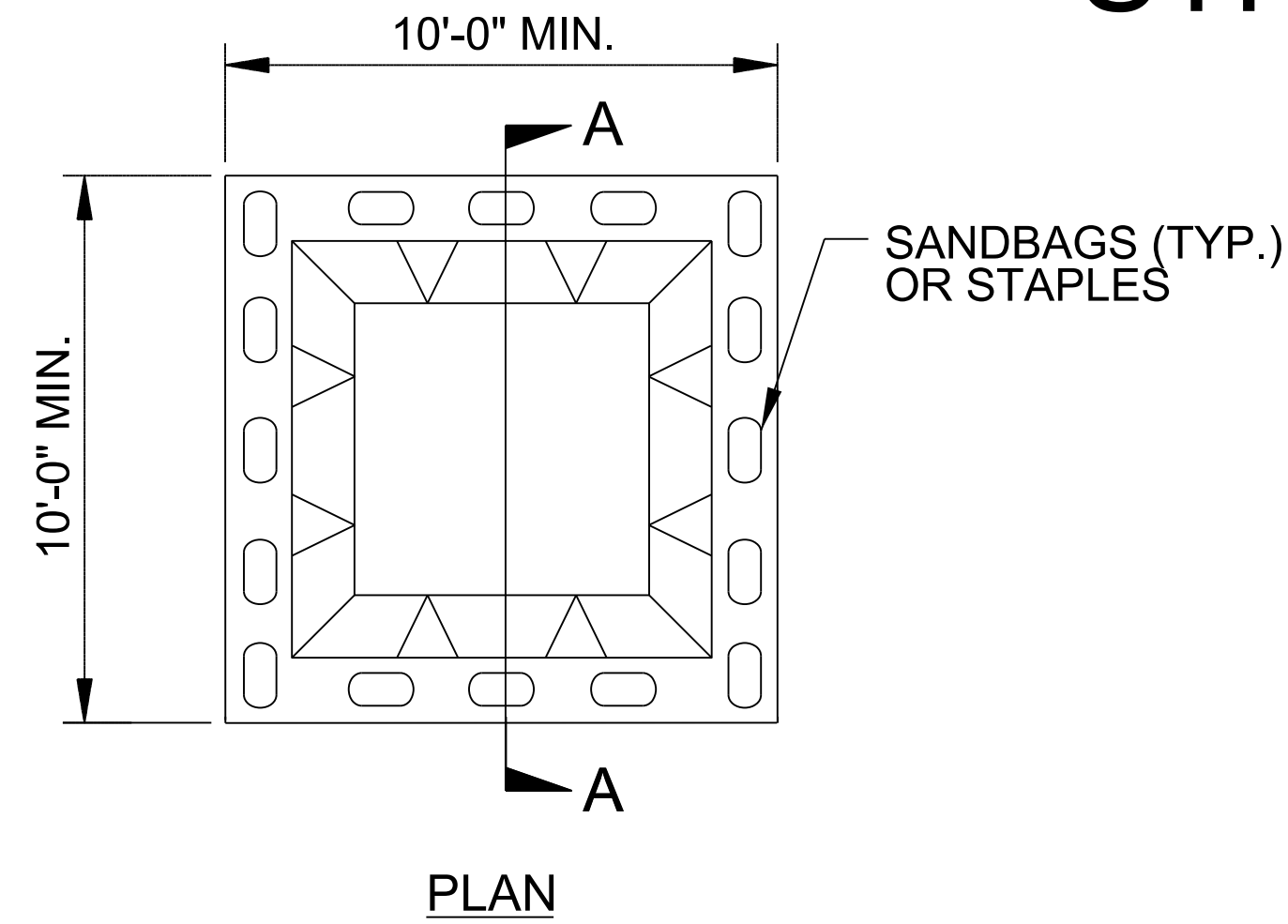


					Grasses/Groundcovers/Perennials				
L	1670	12	ea	PV	<i>Panicum virgatum</i> 'Heavy Metal'	Heavy Metal Switchgrass	6-12"; 1 gal.	2' O.C.	13.4
L	1670	12	ea	SS	<i>Schizachyrium scoparium</i> 'Blaze'	Blaze Little Bluestem	32 per tray, 2.5" line	2' O.C.	13.4
L	1670		ea	YF	<i>Yucca filamentosa</i>	Yucca	6-12"; 1 gal.	2' O.C.	13.1.1
L	1670		ea	LC	<i>Lantana camera</i>	Lantana	6-12"; 1 gal.	2' O.C.	13.1.1
L	1670	12	ea	MC	<i>Muhlenbergia capillaris</i>	Pink Muhly Grass	18-24"; 1 gal.	2' O.C.	13.4



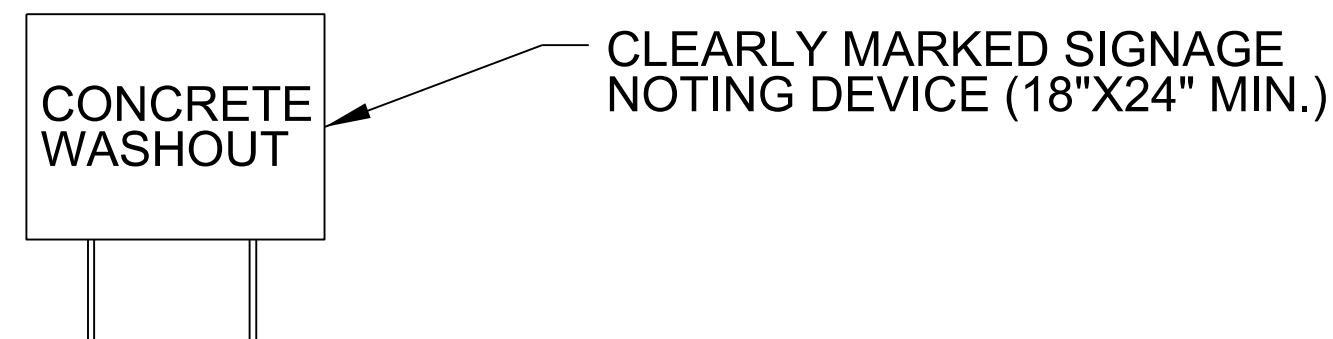
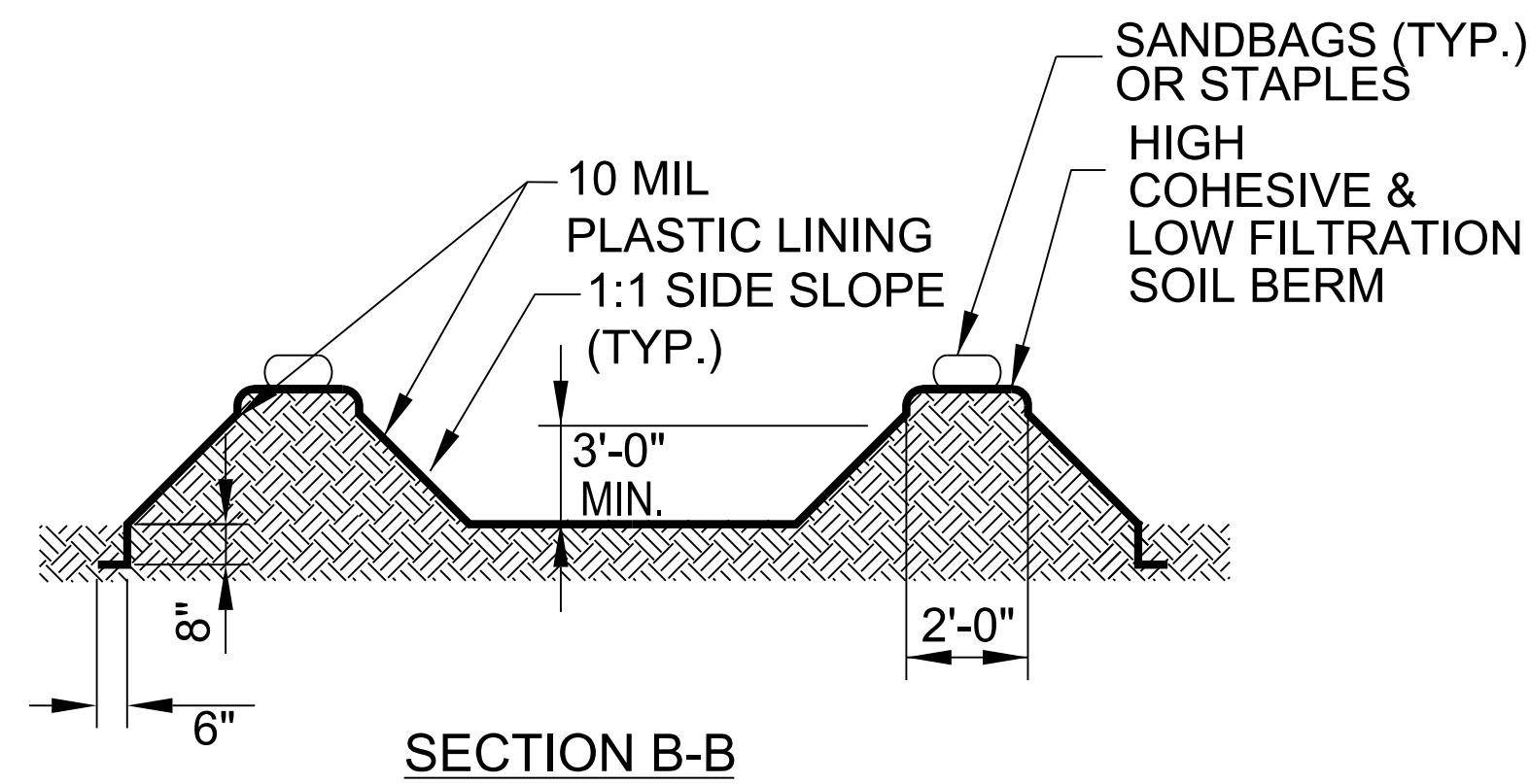
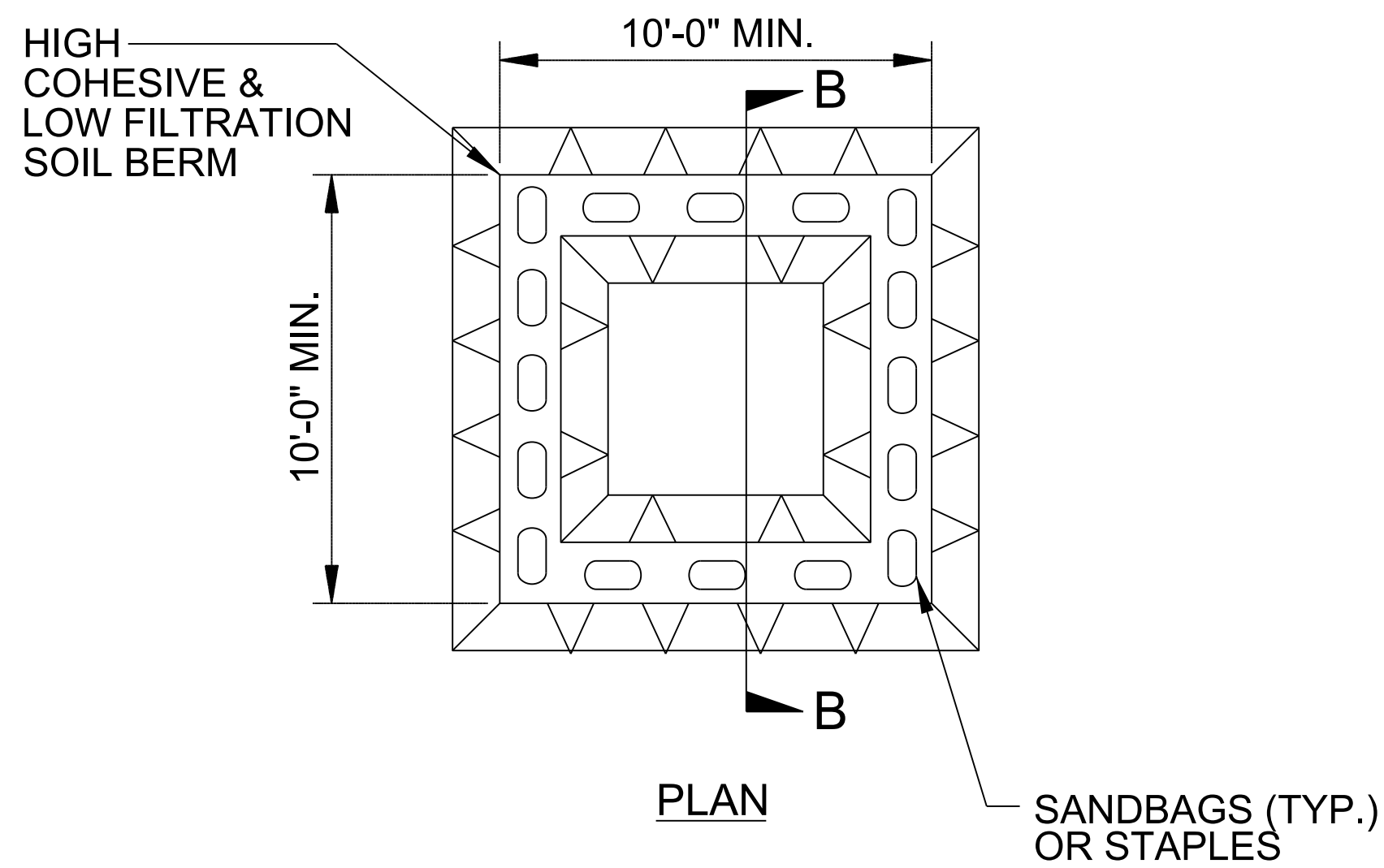
ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER

PROJECT REFERENCE NO.		SHEET NO.
X-XXXX		EC-XX
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER



BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.