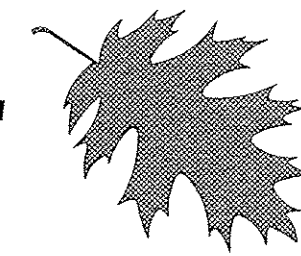
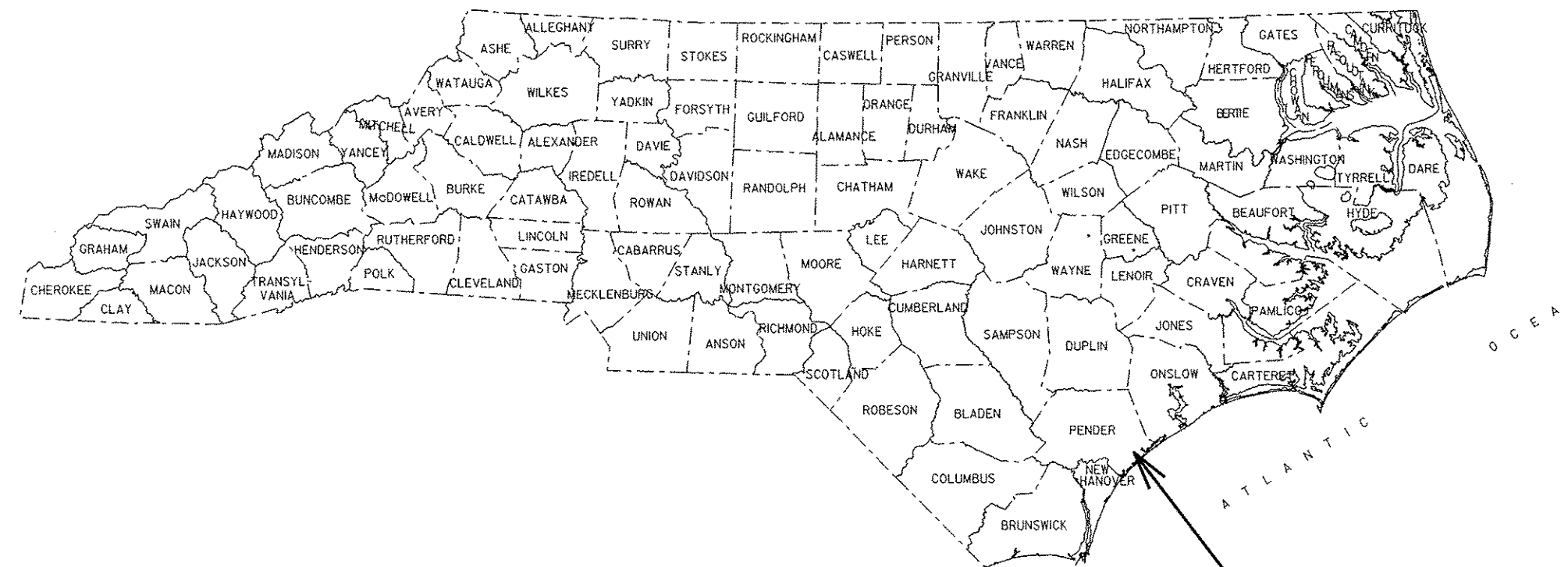


PROPOSED HIGHWAY LANDSCAPE DEVELOPMENT PROJECT

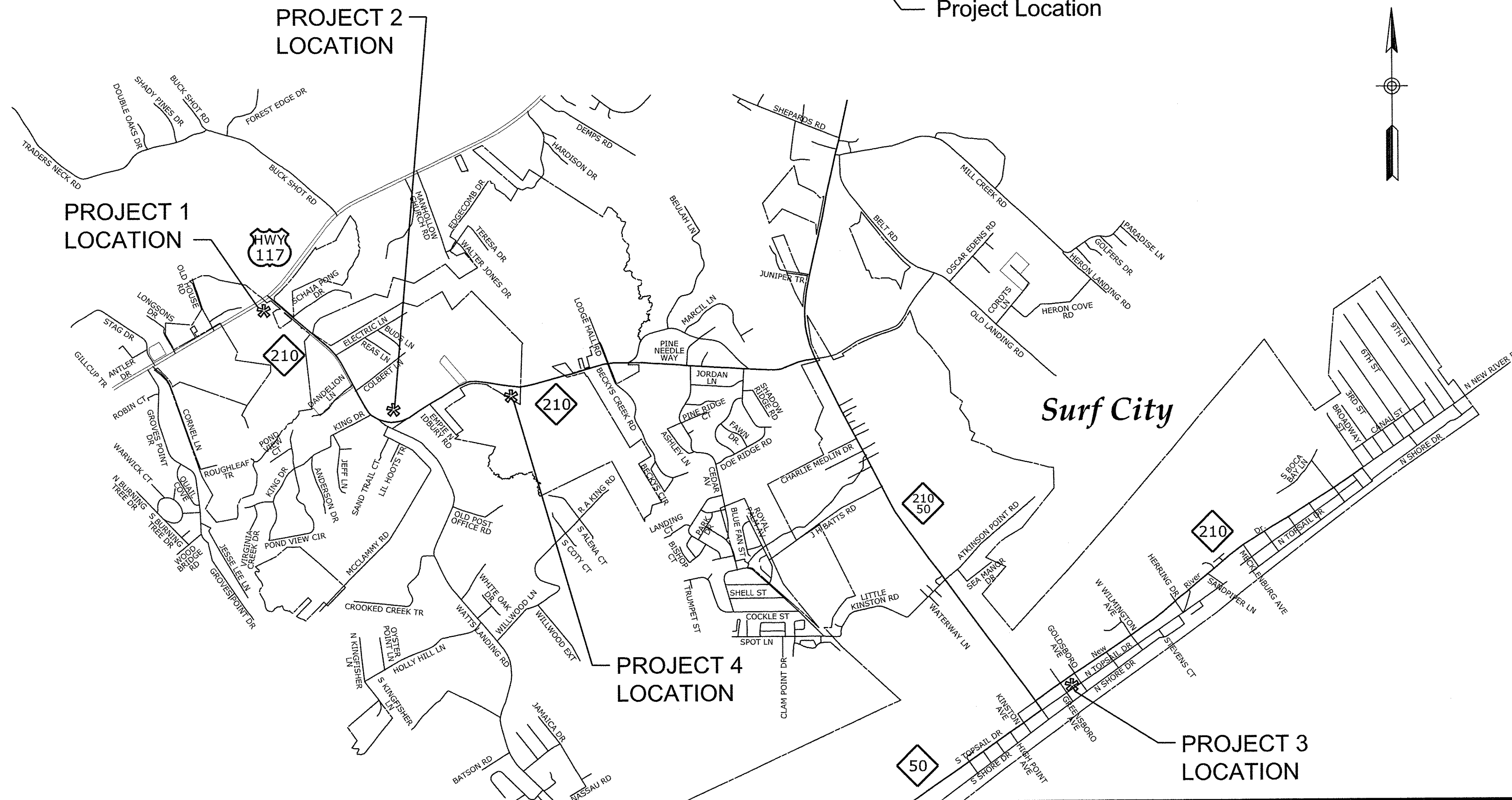


T.I.P. #	STATE PROJECT W.B.S. #	SHEET #	SHEET # TOTAL
	3703.3.21	L1	7
FED. PROJ. #	DESCRIPTION	DIVISION	
	landscape	3	

PROJECT: Landscape Enhancement Projects, Surf City, North Carolina



Project Location



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	-----

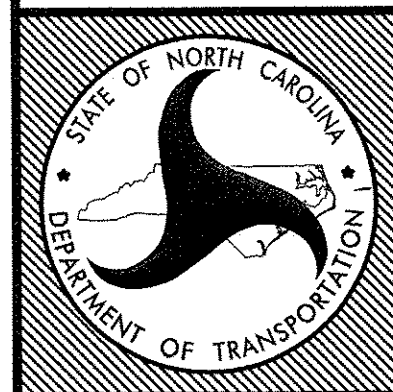
INDEX OF SHEETS:

- L1 ... TITLE SHEET
- L2 ... PROJECT 1
- L3 ... PROJECT 2
- L4 ... PROJECT 3
- L5 ... PROJECT 4
- L6 ... DETAILS
- L7 ... DETAILS
- L8 ... IRRIGATION SPECIFICATIONS

PREPARED BY: NN DATE: DEC/2012

REVISIONS

DATE	DESCRIPTION

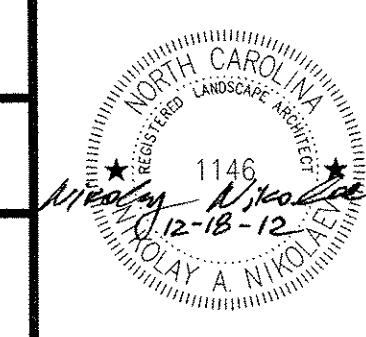


STATE OF
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

LOCATION: Surf City, North Carolina

TYPE of WORK: Landscape Enhancement Projects

COUNTY: Pender



2004 American Standard for Nursery Stock
2012 NCDOT STANDARD SPECIFICATIONS
PREPARED IN THE OFFICE OF:



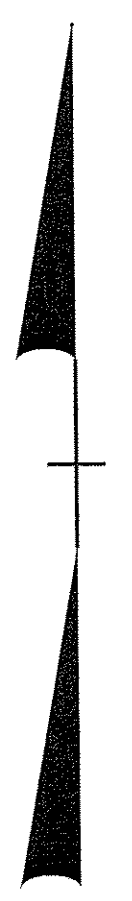
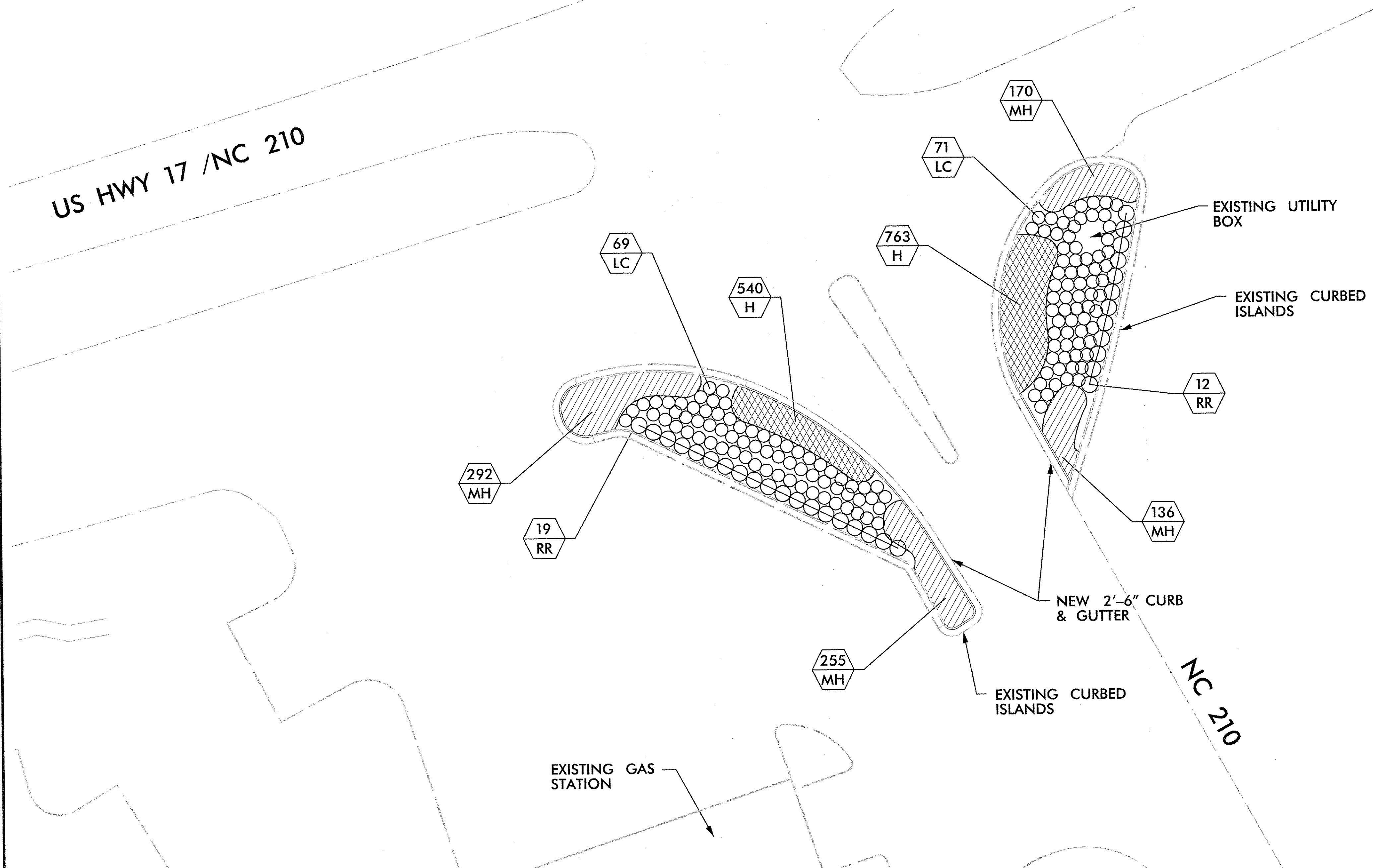
801 Corporate Center Drive, Suite 300
Raleigh, NC 27607-5073
Tel: 919/854-1282 Fax: 919/854-5448 NC License No. C-1869

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DGN\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

SUMMARY OF PROJECT QUANTITIES

TYPE	QUANTITY	UNIT	SEC	SYMBOL	BOTANICAL NAME	COMMON NAME	CALIPER	HEIGHT	SPREAD	ROOT	COMMENTS
SHRUBS	31	EA	1670	RR	<i>Rosa x red 'Double Knock out'</i>	Red Knock-out Roses				CONT. 3 GAL.	48" O.C. SPACING
	140	EA	1670	LC	<i>Lantana camara 'Miss Huff'</i>	Miss Huff Lantana		15" - 18"	18" - 24"	CONT.	48" O.C. SPACING
GROUND COVER / ORNAMENTAL GRASSES	853	EA	1670	MH	<i>Muhlenbergia capillaris</i>	Pink Muhly				1 GAL.	18" O.C. SPACING
	1300	EA	1670	H	<i>Hemerocallis</i>	DayLily				1 GAL.	12" O.C. SPACING
					DESCRIPTION						
	190	LF	846		2'-6" CONCRETE CURB & GUTTER						

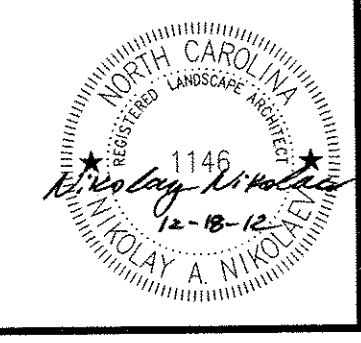
NOTE: CONTRACTOR TO PROVIDE AND INSTALL IRRIGATION SYSTEM. SEE SHEET L-8 FOR GENERAL NOTES. COORDINATE WITH SURF CITY AND OR LOCAL WATER AUTHORITY FOR CONNECTION TO THE CITY WATER SUPPLY.



NCDOT - Division 3 - Roadside
 Environmental Unit
 803 Penderlea Highway Burgaw, NC 28425
 Ph: 910-259-4919 Fax: 910-259-2781
 Contact: Joe Chance

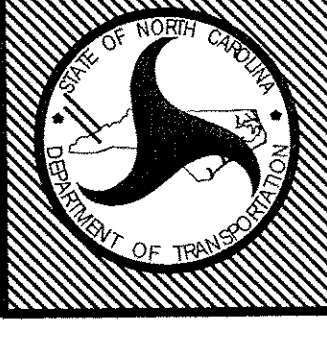
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 WWW.ARCADIS-US.COM
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 Raleigh, NC 27607-5073
 Tel: 919/854-1282 Fax: 919/854-5448
 NC License No. C-1869
 Contact: Nick Nikolaev

Project 1
 US HWY 17 & NC 210
 Surf City, NC
 contract #:



sheet description:
 prel. design date : December/2012
 checked by & date :
 final design date :

Planting Plan
 Scale: 1" = 20'

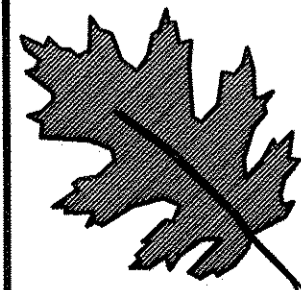
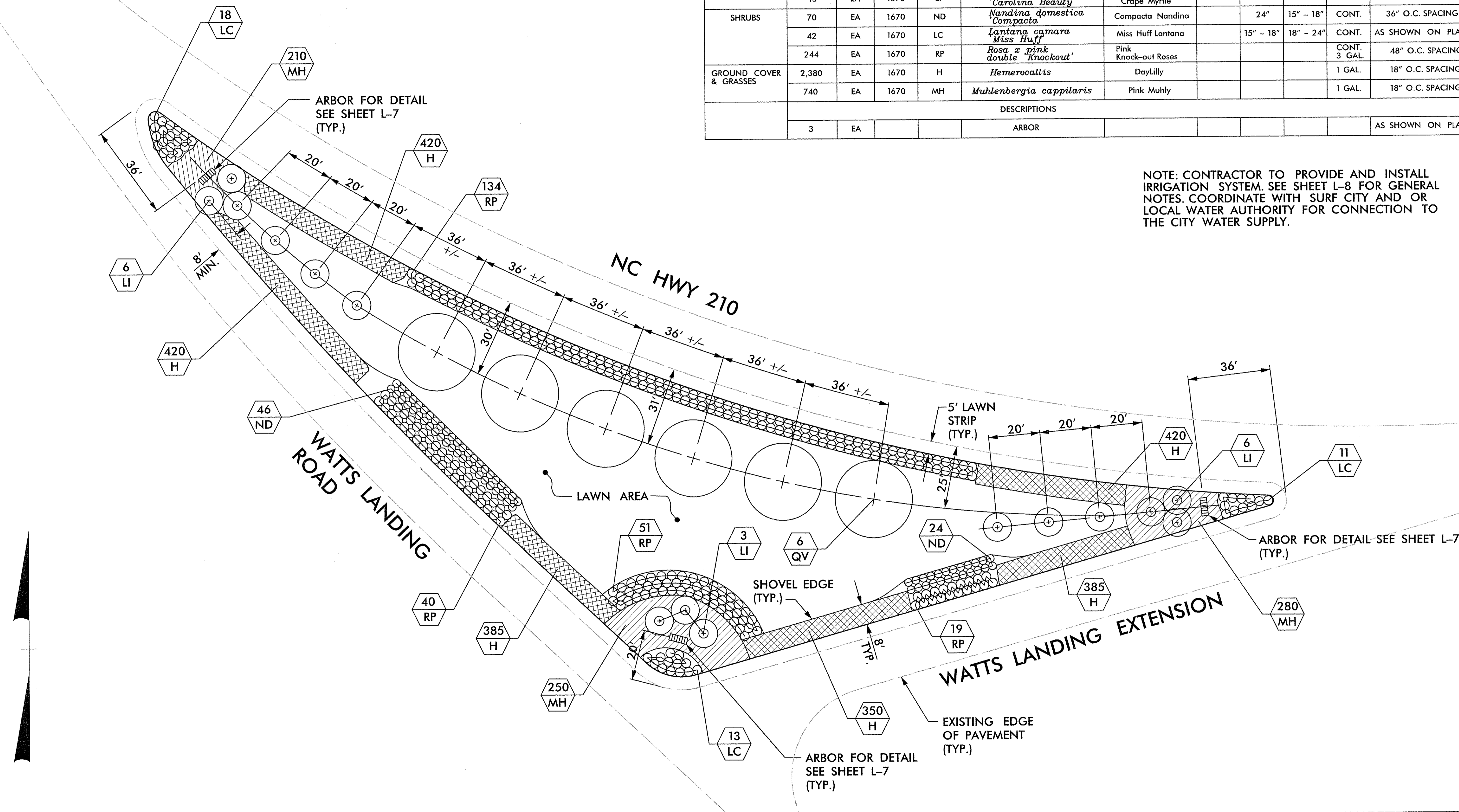


T.I.P. #
 WBS # 3703.3.21
 FED I.D. #
 sheet no : L2 total sheet no : 8

SUMMARY OF PROJECT QUANTITIES

TYPE	QUANTITY	UNIT	SEC	SYMBOL	BOTANICAL NAME	COMMON NAME	CALIPER	HEIGHT	SPREAD	ROOT	COMMENTS
TREES	6	EA	1670	QV	<i>Quercus virginiana</i>	Live Oak	3"			B & B	
	15	EA	1670	LI	<i>Lagerstroemia indica</i> <i>Carolina Beauty</i>	Carolina Beauty Crape Myrtle		12' - 14'		B & B	
SHRUBS	70	EA	1670	ND	<i>Nandina domestica</i> <i>Compacta</i>	Compacta Nandina		24"	15" - 18"	CONT.	36" O.C. SPACING
	42	EA	1670	LC	<i>Lantana camara</i> <i>Miss Huff</i>	Miss Huff Lantana		15" - 18"	18" - 24"	CONT.	AS SHOWN ON PLANS
	244	EA	1670	RP	<i>Rosa x pink</i> <i>double Knockout</i>	Pink Knock-out Roses				CONT. 3 GAL.	48" O.C. SPACING
GROUND COVER & GRASSES	2,380	EA	1670	H	<i>Hemerocallis</i>	DayLilly				1 GAL.	18" O.C. SPACING
	740	EA	1670	MH	<i>Muhlenbergia capparis</i>	Pink Muhly				1 GAL.	18" O.C. SPACING
DESCRIPTIONS											
	3	EA			ARBOR						AS SHOWN ON PLANS

NOTE: CONTRACTOR TO PROVIDE AND INSTALL IRRIGATION SYSTEM. SEE SHEET L-8 FOR GENERAL NOTES. COORDINATE WITH SURF CITY AND OR LOCAL WATER AUTHORITY FOR CONNECTION TO THE CITY WATER SUPPLY.



NCDOT - Division 3 - Roadside
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803 Penderlea Highway Burgaw, NC 28425
Ph: 910-259-4919 Fax: 910-259-2781
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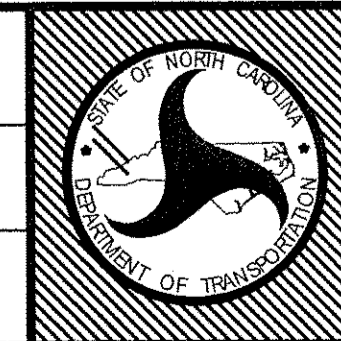
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WWW.ARCADIS-US.COM
801 Corporate Center Drive, Suite 300
Raleigh, NC 27607-5073
Tel: 919/854-1282 Fax: 919/854-5448
NC License No. C-1869
Contact: Nick Nikolae

Project 2
NC 210 and Watts Landing Road
Surf City, NC
contract #:



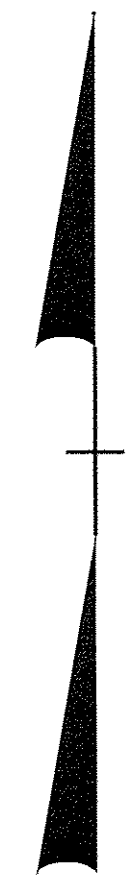
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checked by & date :
final design date :

Planting Plan
Scale: 1" = 20'



T.I.P. #
WBS # 3703.3.21
FED I.D. #
sheet no : L3
total sheet no : 7

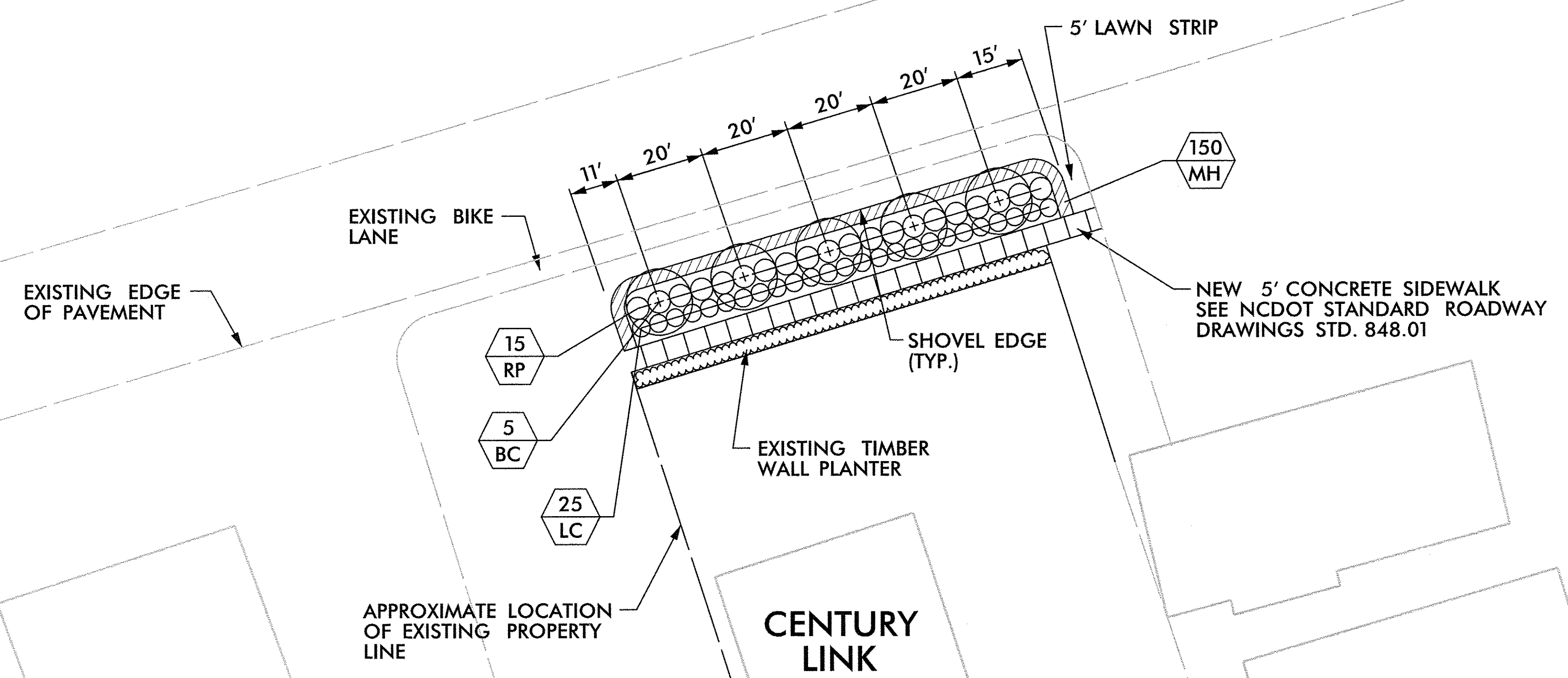
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NEW RIVER DRIVE (NC 210)

GREENSBORO AVE.

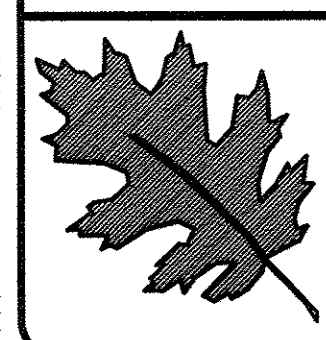
N. TOPSAIL DR.



SUMMARY OF PROJECT QUANTITIES

TYPE	QUANTITY	UNIT	SEC	SYMBOL	BOTANICAL NAME	COMMON NAME	CALIPER	HEIGHT	SPREAD	ROOT	COMMENTS
PALM TREES	5	EA	1670	BC	<i>Butia capitata</i>	Pindo Palm		6'		B&B	
SHRUBS	25	EA	1670	LC	<i>Lantana camara</i> <i>Miss Huff</i>	Miss Huff Lantana		15" - 18"	18" - 24"	CONT.	
	15	EA	1670	RP	<i>Rosa x red</i> <i>'Double Knock out'</i>	Red Knock-out Roses				CONT. 3 GAL.	
GROUND COVER / ORNAMENTAL GRASSES	150	EA	1670	MH	<i>Muhlenbergia capillaris</i>	Pink Muhly				1 GAL.	18" O.C. SPACING
					DESCRIPTION						
	65	SY.	848		4" CONCRETE SIDEWALK						

\$\$\$\$\$SYTIME\$\$\$\$\$
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\$\$\$\$\$ISS\$\$\$\$\$



NCDOT - Division 3 - Roadside
Environmental Unit
803 Penderlea Highway Burgaw, NC 28425
Ph: 910-259-4919 Fax: 910-259-2781
Contact: Joe Chance

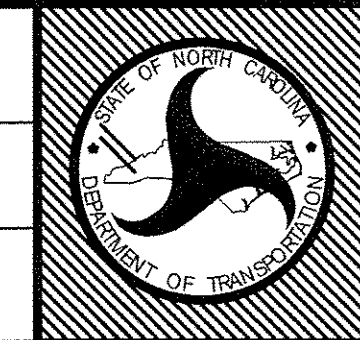
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WWW.ARCADIS-US.COM
801 Corporate Center Drive, Suite 300
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Tel: 919/854-1282 Fax: 919/854-5448
NC License No. C-1869
Contact: Nick Nikolae

Project 3
NC 210 (New River Drive)
Surf City, NC
contract #:



prel. design date : December/2012
checked by & date :
final design date :

Planting Plan
Scale: 1" = 20'

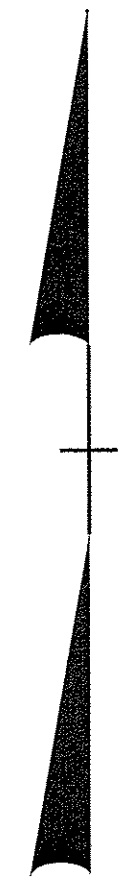
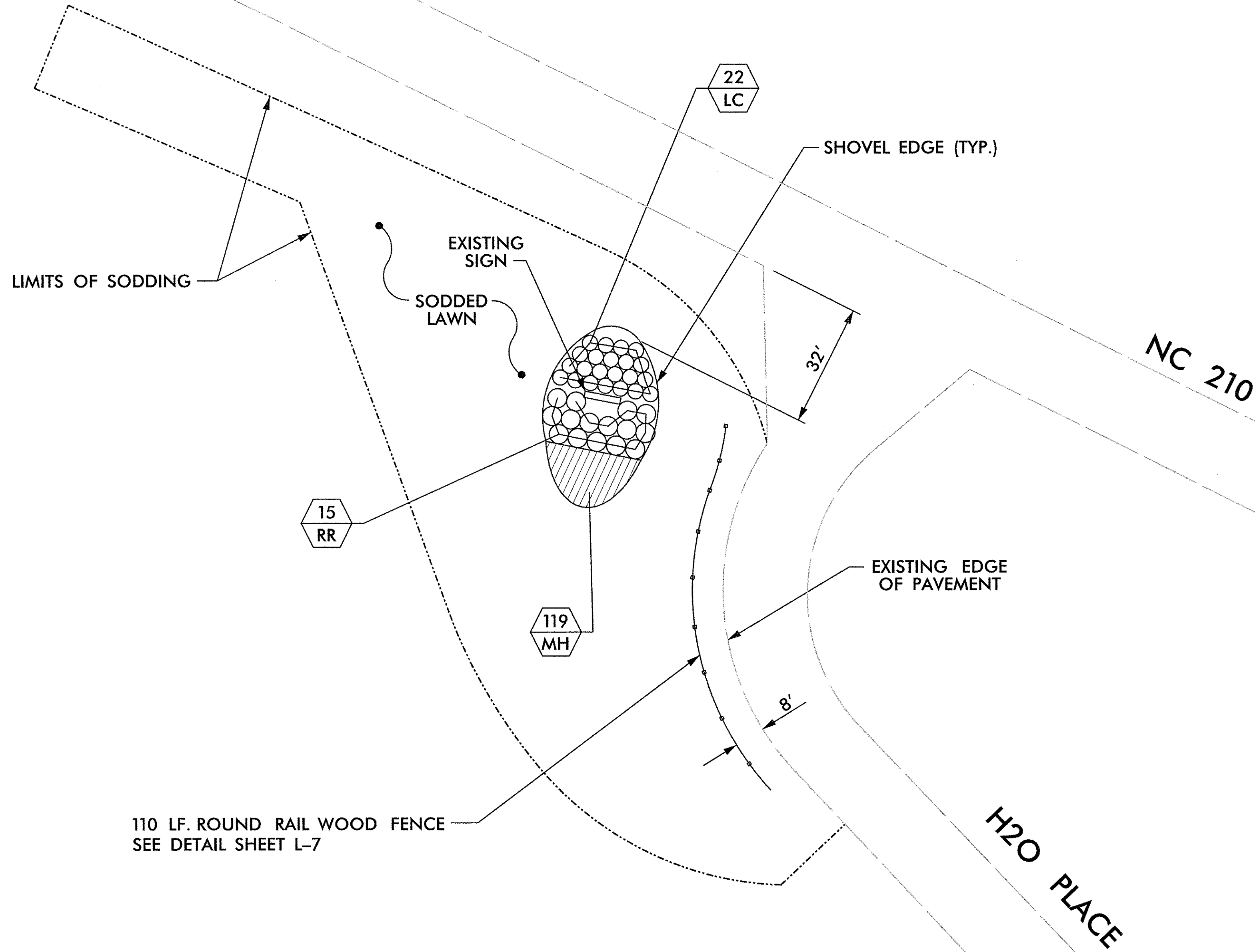


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WBS # 3703.3.21
FED I.D. #
sheet no : L4 total sheet no : 7

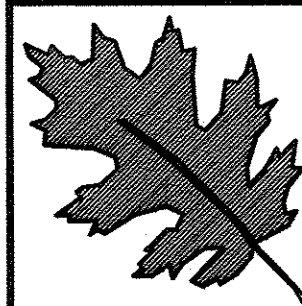
SUMMARY OF PROJECT QUANTITIES

TYPE	QUANTITY	UNIT	SEC	SYMBOL	BOTANICAL NAME	COMMON NAME	CALIPER	HEIGHT	SPREAD	ROOT	COMMENTS
SHRUBS	22	EA	1670	LC	<i>Lantana camara</i> 'Miss Huff'	Miss Huff Lantana		15" - 18"	18" - 24"	CONT.	
	15	EA	1670	RR	<i>Rosa x red</i> 'Double Knock out'	Red Knock-out Roses				CONT. 3 GAL.	
GROUND COVER / ORNAMENTAL GRASSES	119	EA	1670	MH	<i>Muhlenbergia capillaris</i>	Pink Muhly				1 GAL.	18" O.C. SPACING
					DESCRIPTIONS						
	1,750	SY.	1664		SODDING						AS SHOWN ON PLANS
	110	LF.			WOOD FENCE						AS SHOWN ON PLANS

NOTE: CONTRACTOR TO PROVIDE AND INSTALL IRRIGATION SYSTEM. SEE SHEET L-8 FOR GENERAL NOTES. COORDINATE WITH SURF CITY AND OR LOCAL WATER AUTHORITY FOR CONNECTION TO THE CITY WATER SUPPLY.



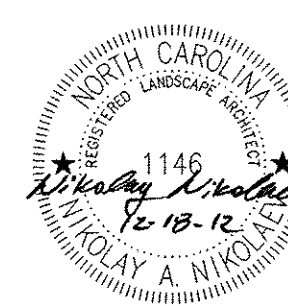
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NCDOT - Division 3 - Roadside
Environmental Unit
803 Penderlea Highway Burgaw, NC 28425
Ph: 910-259-4919 Fax: 910-259-2781
Contact: Joe Chance

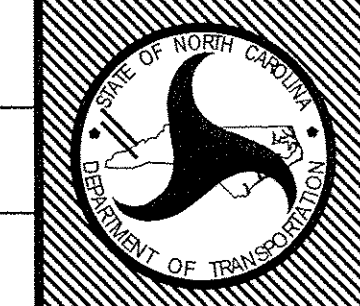
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801 Corporate Center Drive, Suite 300
Raleigh, NC 27607-5073
Tel: 919/854-1282 Fax: 919/854-5448
NC License No. C-1869
Contact: Nick Nikolaev

Project 4
NC 210 & H20 Place
Surf City, NC
contract #:

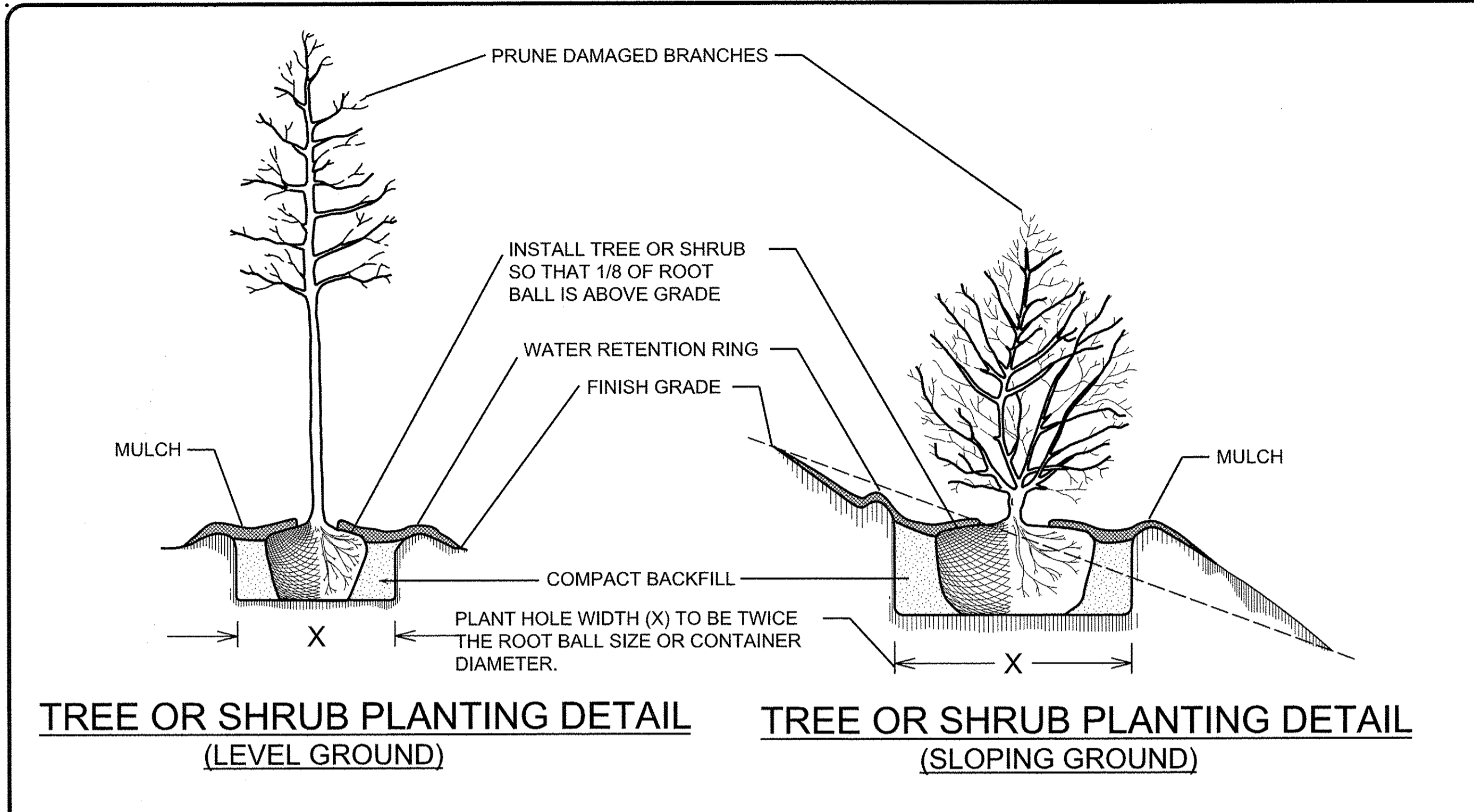


prel. design date : December/2012
checked by & date :
final design date :

Planting Plan
Scale: 1" = 20'

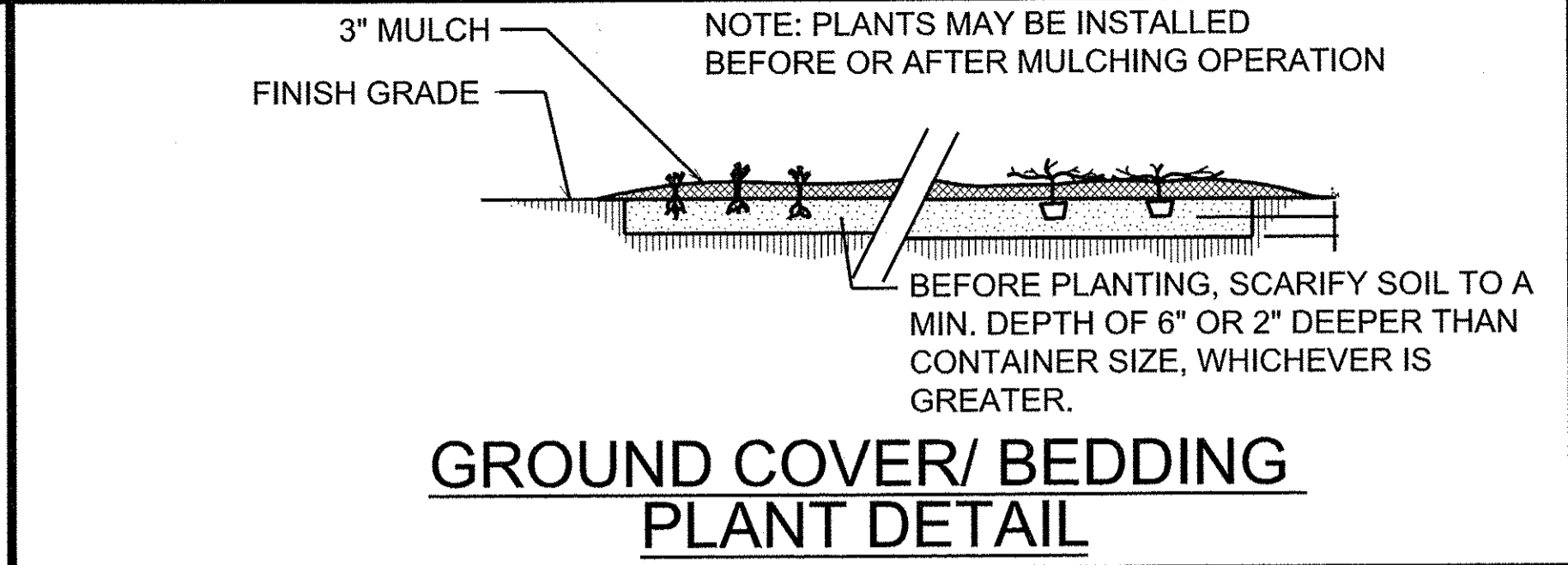


T.I.P. #
WBS # 3703.3.21
FED I.D. #
sheet no : L5
total sheet no : 7

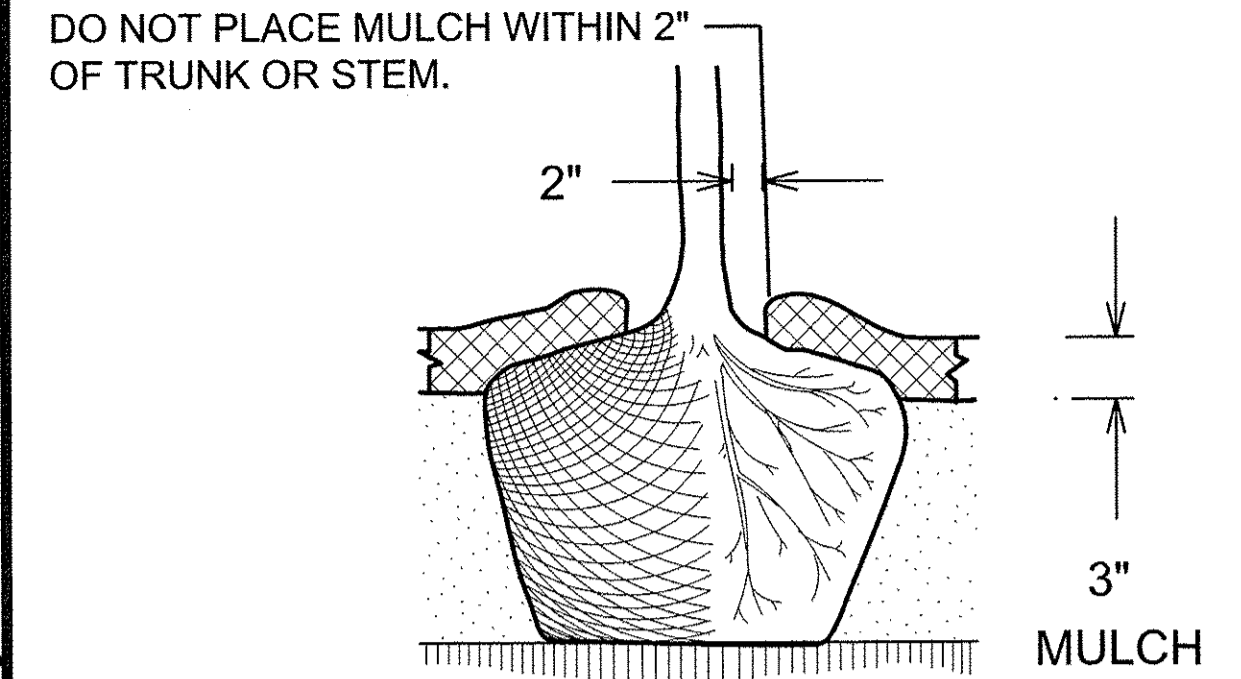


TREE OR SHRUB PLANTING DETAIL
(LEVEL GROUND)

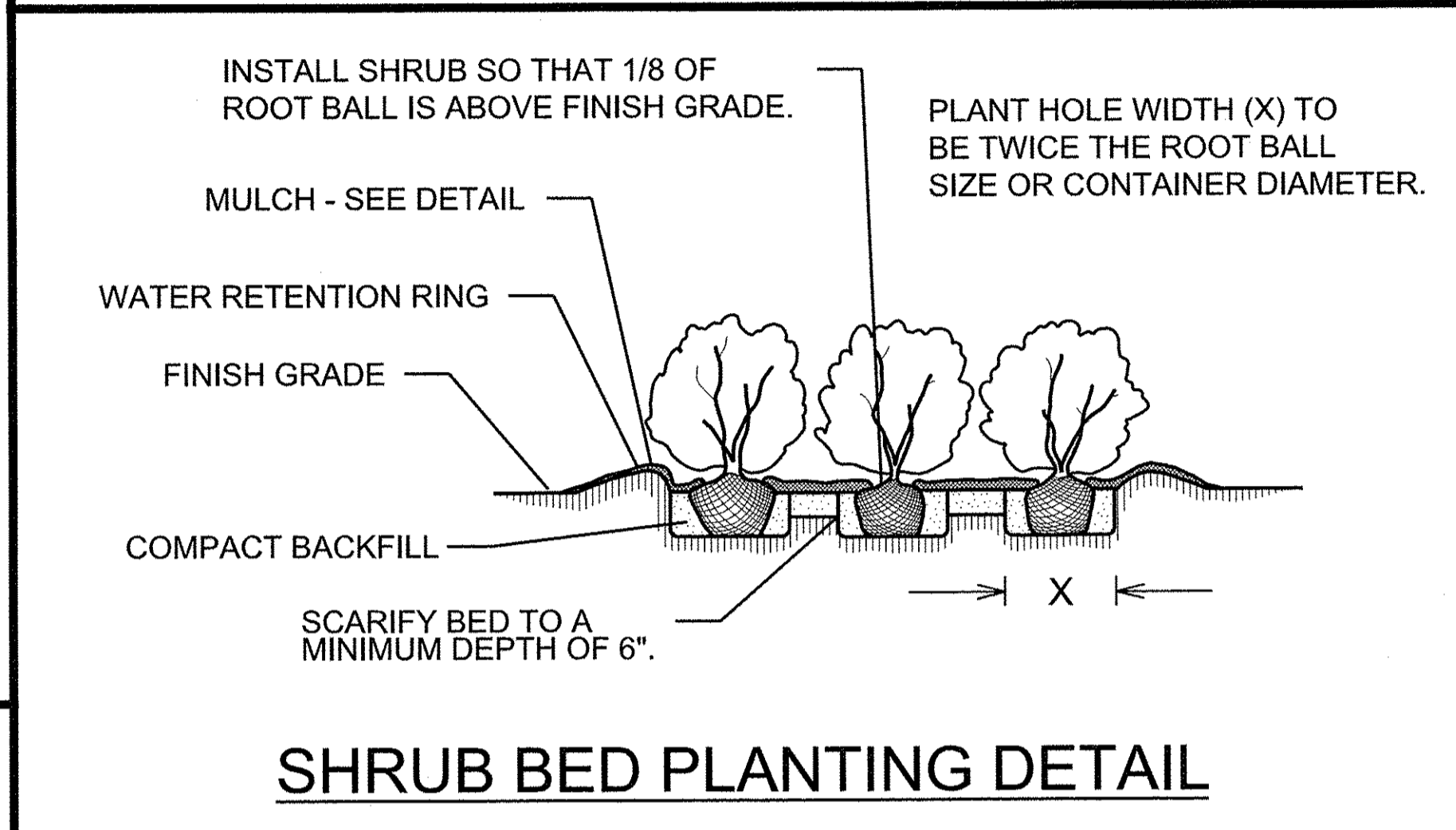
TREE OR SHRUB PLANTING DETAIL
(SLOPING GROUND)



GROUND COVER/ BEDDING
PLANT DETAIL

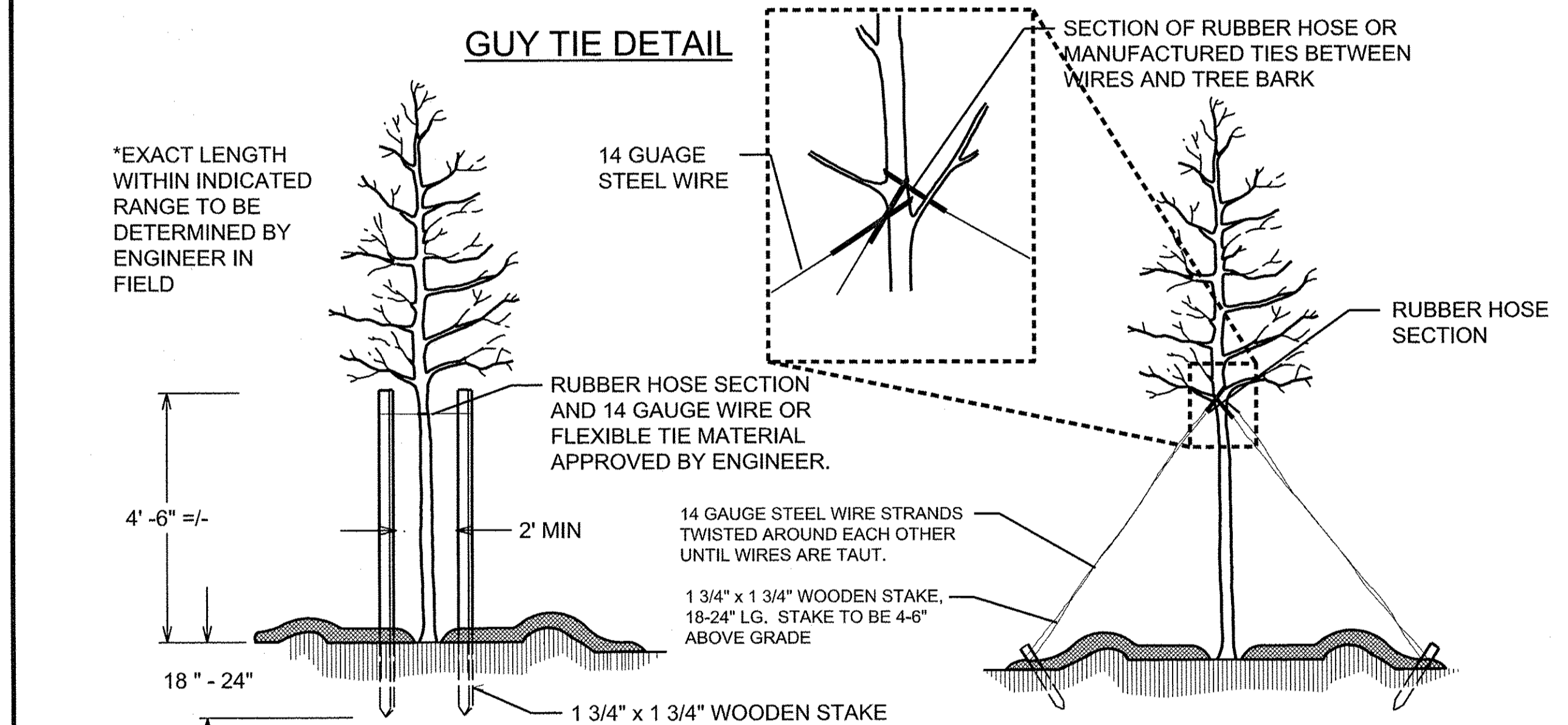


MULCH DETAIL



SHRUB BED PLANTING DETAIL

- NOTES:**
- SCHEDULE FOR PLANT HOLE SIZE: PLANT HOLE WIDTH (X) TO BE TWICE THE ROOT BALL SIZE OR CONTAINER DIAMETER.
 - SEE STANDARD SPECIFICATIONS FOR PLANT BED FUMIGATION AND HERBICIDAL TREATMENT.
 - APPLY FERTILIZER AT PLANTING TIME IN THE FORM OF A SLOW RELEASE PELLETT OR TABLET. APPLY AT RATE RECOMMENDED BY MANUFACTURER. BOTH RATE AND FORMULATION MUST BE APPROVED BY FIELD ENGINEER PRIOR TO APPLICATION.
 - REMOVE WIRE BASKET AND FOLD BURLAP BACK FROM TOP OF ROOT BALL BEFORE BACKFILLING IS COMPLETE.
 - ALL PRUNING TO FOLLOW STANDARD ARBORICULTURAL PRACTICES AS SPECIFIED BY INTERNATIONAL SOCIETY OF ARBORICULTURE.
 - DO NOT ATTEMPT TO STRAIGHTEN A TREE THAT HAS BEEN PLANTED AT AN ANGLE WITH THE USE OF STAKING OR GUYING. DIG TREE AND REPLANT TO UPRIGHT POSITION.

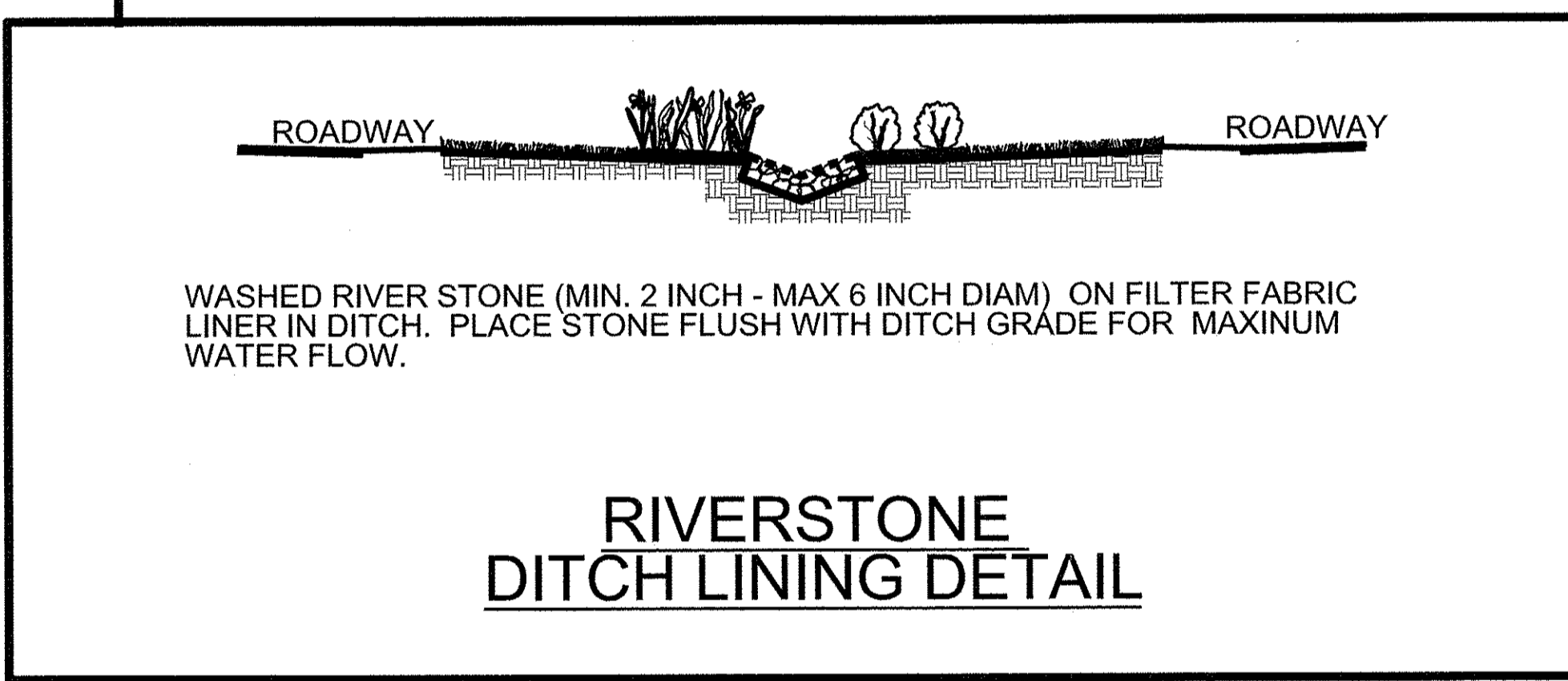


STAKING DETAIL
(TREES 6'-10')

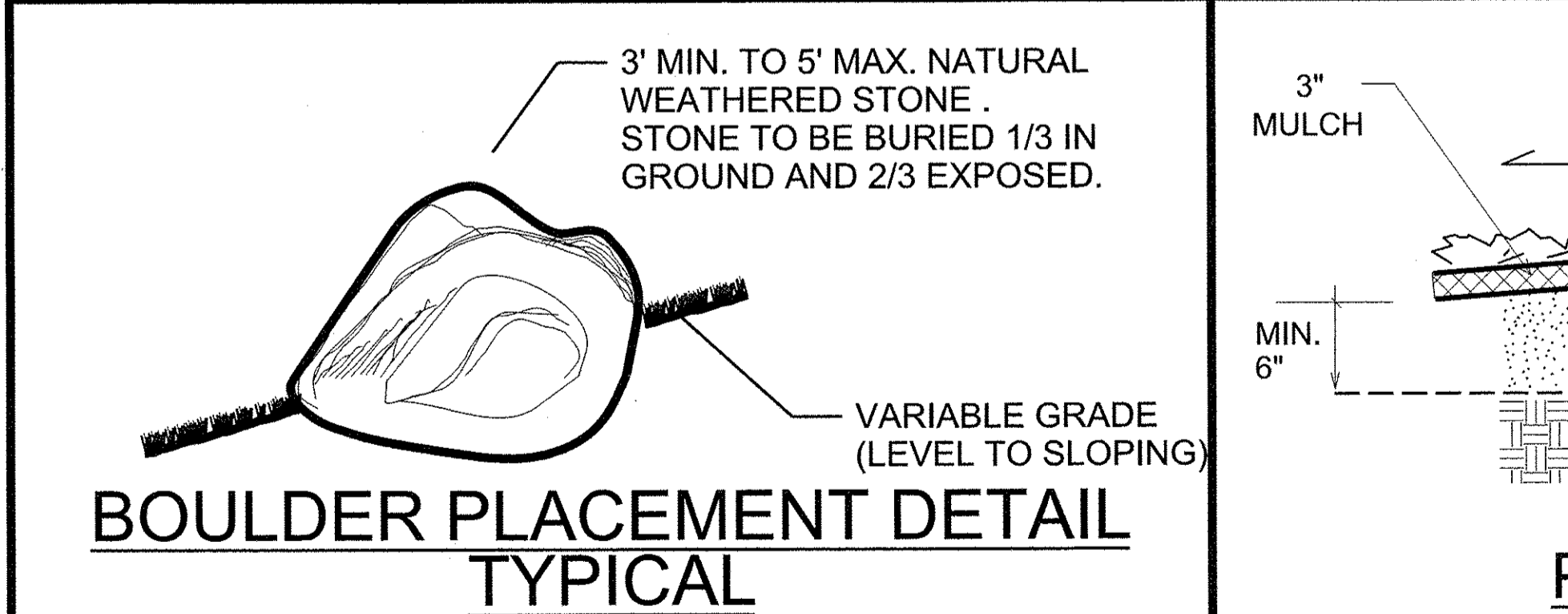
USE AS DIRECTED BY FIELD ENGINEER

GUYING DETAIL
(TREES 10' OR LARGER)

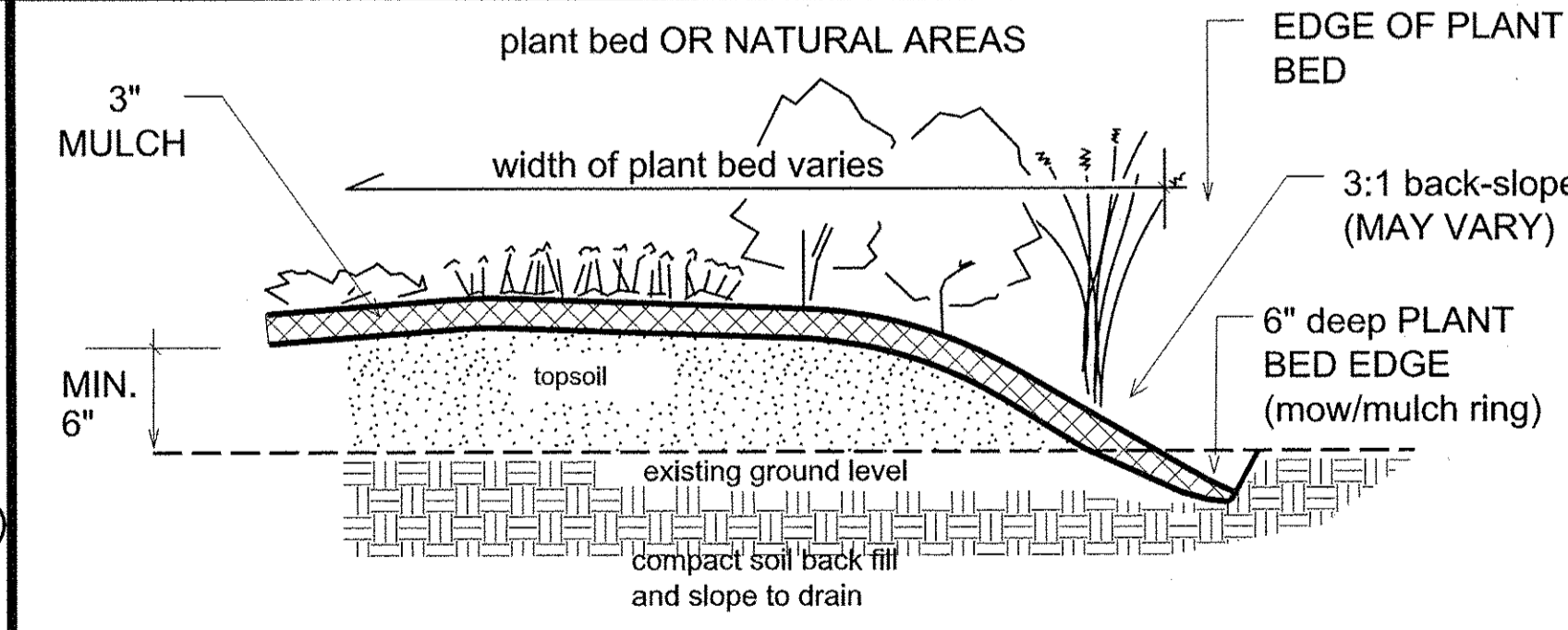
USE AS DIRECTED BY FIELD ENGINEER



RIVERSTONE
DITCH LINING DETAIL

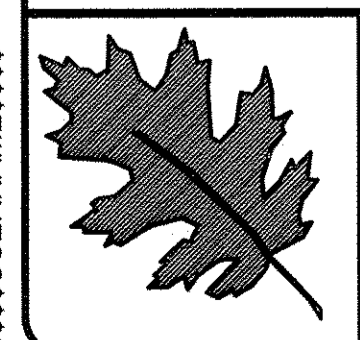


BOULDER PLACEMENT DETAIL
TYPICAL



PLANT BED EDGE DETAIL

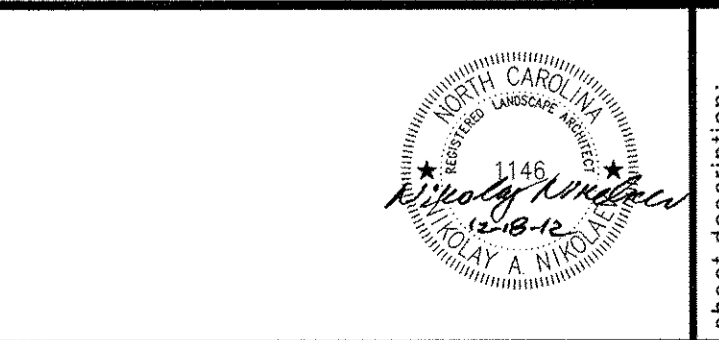
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NCDOT - Division 3 - Roadside Environmental Unit
803 Penderlea Highway Burgaw, NC 28425
Ph: 910-259-4919 Fax: 910-259-2781
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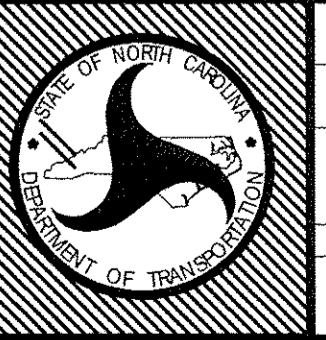
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Landscape Enhancement Projects
Surf City, North Carolina
Pender County
contract #:



sheet description:
prel. design date : December/2012
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final design date :

Details



T.I.P. #
WBS # 3703.3.21
FED I.D. #
sheet no : total sheet no :
L6 **8**

Vinyl Arbors by A Vinyl Fence & Deck Wholesaler
The Imperial

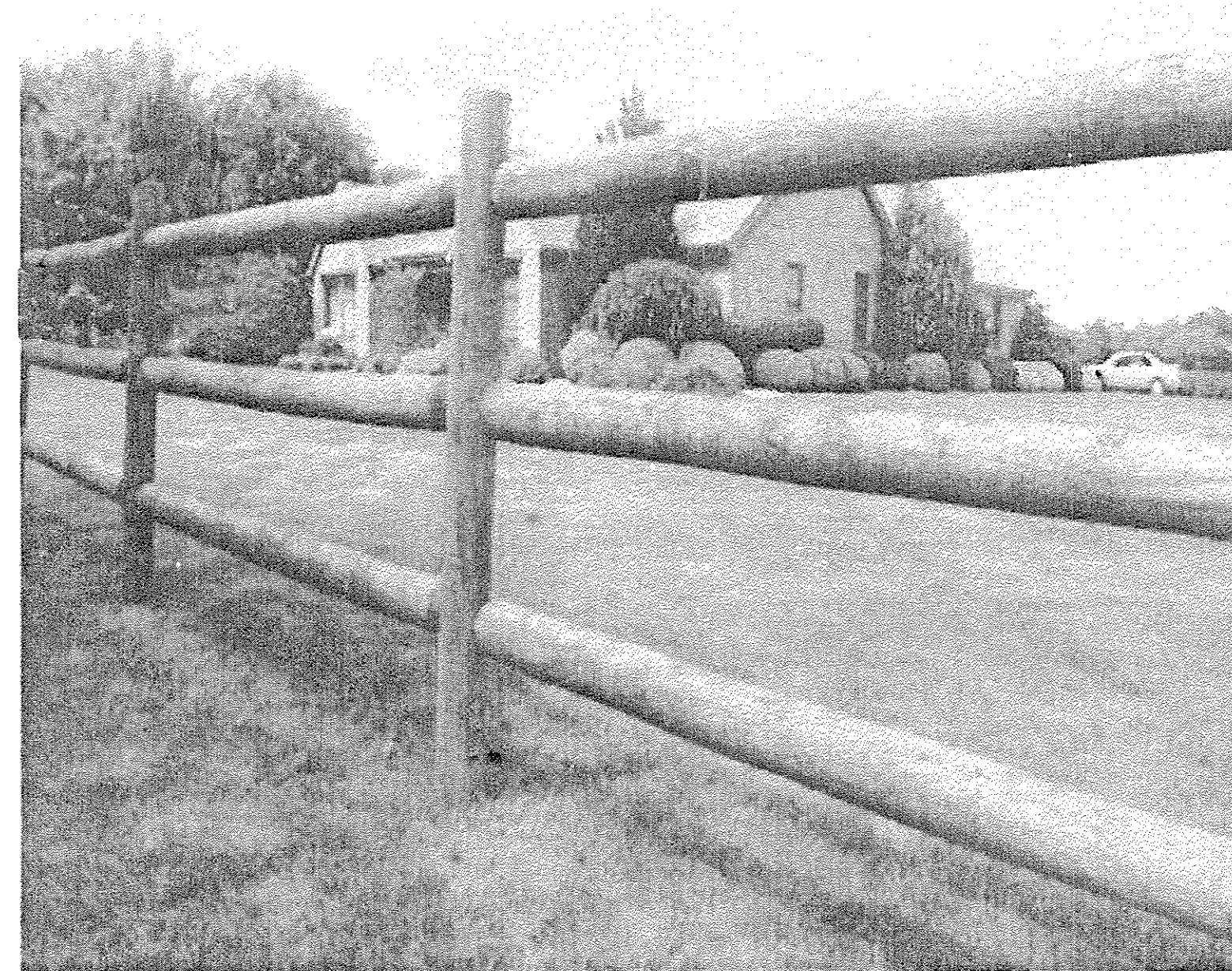
Phone: 507-206-4154
Fax.: 507-206-4153



The Imperial is up to 72" wide (inside to inside post dimension)
Posts: 4" x 4"
Arbor Size: 82" W x 48" D x 96" H
Up to 72" Inside Opening Path Width
In-Ground Allowance: None - use 4" x 4" treated wood
Color: White and Tan

Or Approved Equal

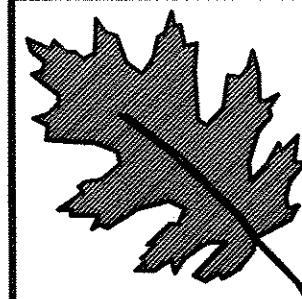
Round Rail Wood Fence (Treated Southern Yellow Pine)



By "Fence Supply On-line" - Fence Product
Phone: 1-800-579-8045
Email: sales@fencesupplyonline.com

or Approved Equal

\$\$\$\$\$
STIMES
DGN
SERIALS
\$\$\$\$\$



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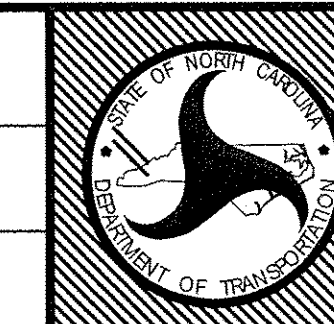
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Landscape Enhancement Projects
Surf City, North Carolina
Pender County
contract #:



sheet description:
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Details



T.I.P. #
WBS # 3703.3.21
FED I.D. #
sheet no : L7 total sheet no : 8

