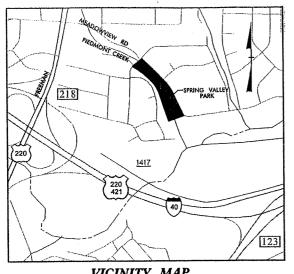
See Sheet 1-A For Index of Sheets



STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

GUILFORD COUNTY PROPOSED STREAM RESTORATION

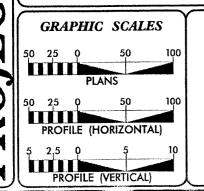
FTATI	DESCRIPT	THERE		
8.U4	92107	NHS-124-1 (8)	P.E	
8.U4	92109	NHS-124 (10)	R/W	
8.U492111		NHS-124-1 (10)	Con	st.

AS- BUILT

LOCATION: SPRING VALLEY PARK TYPE OF WORK: STREAM RESTORATION

STA 24+09 -L- END STATE PROJ. 8.U492111-CONST. VICINITY MAP STA 24+09 -L- END F.A. PROJ. NHS-124-1 (10) STA 10+00 -L- BEGIN STATE PROJ. 8.U492111-CONST. STA 10+00 -L- BEGIN F.A. PROJ. NHS-124-1 (10)

NCDOT CONTACT - JAMIE LANCASTER, P.E.



DESIGN DATA

PROJECT LENGTH 8.U492111 = 1409 LINEAR FEET F.A. PROJECT NHS-124-1 (10) = 1409 LINEAR FEET

Kimley-Horn and Associates, Inc. PLANS PREPARED BY: 2002 STANDARD SPECIFICATIONS

DESIGN ENGINEER

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

SPRING VALLEY PARK INDEX OF SHEETS

TITLE SHEET

INDEX OF SHEETS, LIST OF STANDARDS & GENERAL NOTES

2A TYPICAL SECTIONS

DETAILS 2B

2C

-ROCK CROSS VANE -ROOT WAD

-FLARED END SECTION

-CHANNEL BLOCK

-MATTING INSTALLATION GUIDE
-TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
-COIR FIBER MAT DETAIL

DETAILS - PUMP AROUND OPERATION

QUANTITIES

EXISTING CONDITIONS

PROPOSED ALIGNMENT

PROPOSED CONSERVATION EASEMENT

STRUCTURE LOCATIONS

GRADING PLAN

PROFILE SHEET

EROSION CONTROL COVER SHEET

EROSION CONTROL PLAN SHEET EC-2

LI PLANTING PLAN

PLANTING DETAILS L2

CROSS SECTION SUMMARY X-0

CROSS SECTIONS X-I - X-8

ROADWAY STANDARD DRAWINGS:

(REV. JAN. 2002)

EC-I

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - ROADWAY DESIGN UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2002 AND THE LATEST REVISION THERETO ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.

PRECAST CONCRETE END WALLS 838.80

CONC. BASE PAD FOR DRAINAGE STRUCTURES 840.00

840.53 BRICK MANHOLE

MANHOLE FRAME AND COVER 840.54

840.66 DRAINAGE STRUCTURE STEPS

876.02 GUIDE FOR RIP RAP AT PIPE OUTLETS

DRAINAGE DITCHES WITH CLASS "B" RIP RAP (VEE DITCH) 876.04

1101.05 WORK ZONE VEHICLE ACCESS PORTABLE WORK ZONE SIGNS 1110.02

1150.01

TEMPORARY SILT FENCE 1605.01

ROCK SILT SCREEN 1636.01

GENERAL NOTES:

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

PROJECT REFERENCE NO. SHEET NO. U-2524WM



Bridge Wing Wall, Head Wall

and End Wall

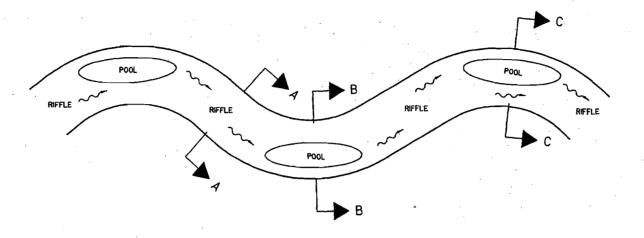
CONC WW

CONVENTIONAL SYMBOLS **BUILDINGS & OTHER CULTURE** ROADS & RELATED ITEMS Recorded Water Line **MINOR** Edge of Pavement Foundations Designated Water Line (S.U.E.*) Head & End Wall Curb CONC HW Area Outline Prop. Slope Stakes Cut Sanitary Sewer Prop. Slope Stakes Fill Footbridge Gas Pump Vent or U/G Tank Cap Prop. Woven Wire Fence Drainage Boxes CB Designated Sanitary Sewer Force Main(S.U.E.*)____ss___ Prop. Chain Link Fence Paved Ditch Gutter Recorded Gas Line Designated Gas Line (S.U.E.*) Prop. Barbed Wire Fence School Prop. Wheelchair Ramp Storm Sewer **UTILITIES** Curb Cut for Future Wheel Recorded Power Line Exist. Guardrail Designated Power Line (S.U.E.*) Exist. Power Pole Prop. Guardrail Recorded Telephone Cable Prop. Power Pole Equality Symbol Well Designated Telephone Cable (S.U.E.*) Exist, Telephone Pole Payement Removal Small Mine Prop. Telephone Pole Recorded U/G Telephone Conduit Exist. Joint Use Pole RIGHT OF WAY Designated U/G Telephone Conduit (S.U.E.*) ______ Prop. Joint Use Pole **Baseline Control Point** Unknown Utility (S.U.E.*) **TOPOGRAPHY** Telephone Pedestal Existing Right of Way Marker Recorded Television Cable Loose Surface U/G Telephone Cable Hand Hold Exist. Right of Way Line w/Marker Designated Television Cable (S.U.E.*) Cable TV Pedestal Hard Surface C Prop. Right of Way Line with Proposed Recorded Fiber Optics Cable U/G TV Cable Hand Hold... Change in Road Surface RW Marker (Iron Pin & Cap) U/G Power Cable Hand Hold Designated Fiber Optics Cable (S.U.E.*) Curb Hydrant. Exist. Water Meter Prop. Right of Way Line with Proposed Right of Way Symbol Satellite Dish... U/G Test Hole (S.U.E.*) (Concrete or Granite) RW Marker Guard Post Exist. Water Valve Abandoned According to U/G Record Exist. Control of Access Line Sewer Clean Out \oplus Paved Walk End of <u>Information</u> Prop. Control of Access Line Power Manhole P Bridge Telephone Booth Exist. Easement Line **BOUNDARIES & PROPERTIES** Box Culvert or Tunnel Cellular Telephone Tower Prop. Temp. Construction Easement Line Water Manhole County Line Culvert Light Pole \mathbf{g} Township Line Prop. Perm. Drainage Easement Line ______PDE_____ H-Frame Pole Footbridge City Line. Power Line Tower Trail, Footpath **HYDROLOGY** Reservation Line Pole with Base Property Line..... Stream or Body of Water Gas Valve **Light House** Property Line Symbol River Basin Buffer Gas Meter **VEGETATION** Exist. Iron Pin Flow Arrow Telephone Manhole.... Single Tree Disappearing Stream Power Transformer Property Monument Single Shrub Sanitary Sewer Manhole Property Number Swamp Marsh Hedae Storm Sewer Manhole Parcel Number (6) Shoreline _____ Tank: Water, Gas, Oil Woods Line Fence Line Falls, Rapids Water Tank With Leas Orchard Existing Wetland Boundaries 免债债债债债 Prop Lateral, Tail, Head Ditches Traffic Signal Junction Box High Quality Wetland Boundary Fiber Optic Splice Box E RAILROADS Medium Quality Wetland Boundaries Television or Radio Tower **STRUCTURES** Low Quality Wetland Boundaries Standard Gauge Utility Power Line Connects to Traffic ++++++ **MAJOR** Proposed Wetland Boundaries Signal Lines Cut Into the Pavement RR Signal Milepost Bridge, Tunnel, or Box Culvert Existing Endangered Animal Boundaries

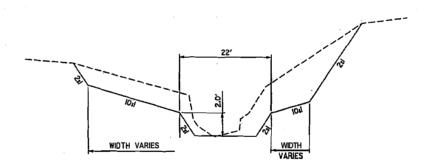
Existing Endangered Plant Boundaries _______

SWITCH

SPRING VALLEY PARK TYPICAL SECTIONS



TYPICAL PLAN VIEW SCHEMATIC

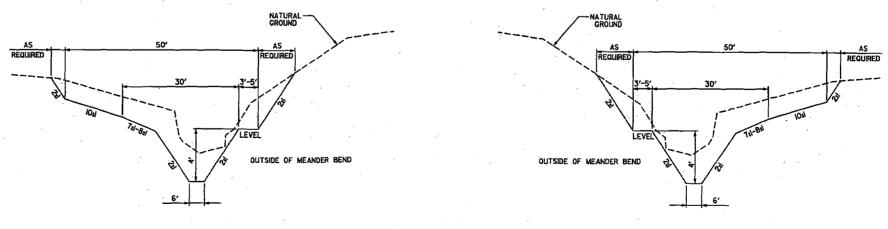


NOID

TYPICAL SECTIONS ARE PROVIDED TO GIVE THE GENERAL DIMENSIONS OF THE CHANNEL FINAL GRADING WILL GIVE THE CHANNEL A MORE "NATURAL" APPEARANCE AND ALLOW A SMOOTH TRANSITION FROM MISTING CHANNEL TO NEW CHANNEL

REFER TO CROSS SECTIONS (SHEETS X-1TO X-8) FO ADDITIONAL INFORMATION.

RIFFLE SECTION A-A

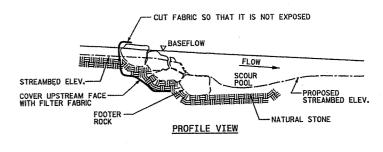


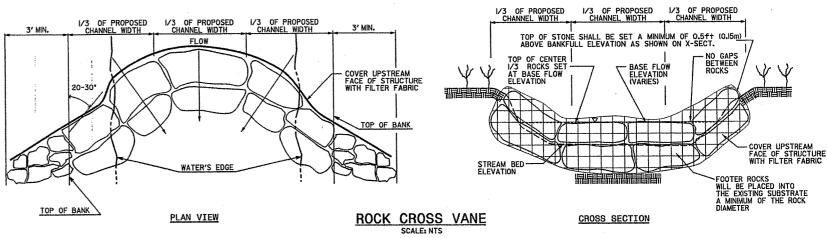
POOL SECTION B-B

POOL SECTION C-C

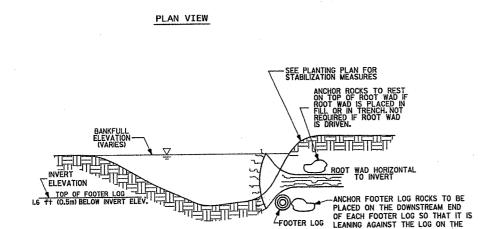
PROJECT REFERENCE NO.

SHEET NO.





NOTE: CLASS B RIP RAP SHALL BE HAND PLACED TO FILL VOIDS BETWEEN LARGER BOULDERS.



ANCHOR ROCKS-

ROOT WADS SHOULD BE DRIVEN INTO THE STREAM BANK WHERE POSSIBLE. IF ROOT WAD IS DRIVEN, NO ANCHOR ROCK REQUIRED.

WHEN BACKFILLING OVER AND AROUND BOTTOM FOOTER LOGS, ROOT WAD LOGS AND ANCHOR LOGS, PACK ROCK AND LOGS IN BETWEEN ALL WADS TO FIRMLY SECURE ALL CONNECTIONS AND GAPS.

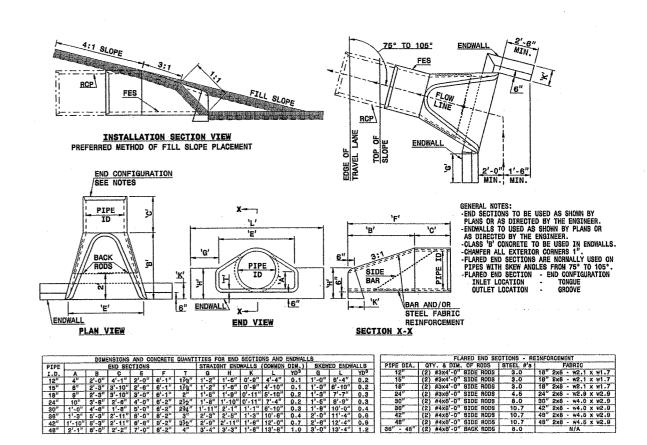
ROOTWAD TO BE PLACED THRU BENDS.

ROOTWAD TO OVERLAP.

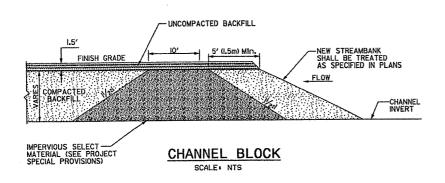
ACTUAL NUMBER OF ROOTWADS AT EACH LOCATION TO BE DETERMINED BY THE ENGINEER

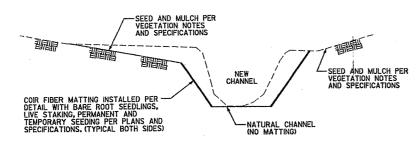
STONE PLACED BETWEEN ROOTWADS.

ROOT WADS - CROSS SECTION (CUT)

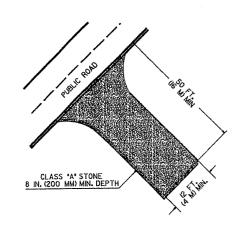


BBBIE/Plan/U2524WM2.PSH





MATTING INSTALLATION GUIDE



- NOTES:

 1. TURNING RADIUS SUFFICIENT TO ACCOMODATE LARGE TRUCKS SHALL BE PROVIDED.

 2. ENTRANCE(S) SHOULD BE LOCATED TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.

 3. MUST BE MANITAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS.

 PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY.

 4. ANY MATERIAL TRACKED ONTO THE ROADWAY MUST BE CLEANED UP IMMEDIATELY.

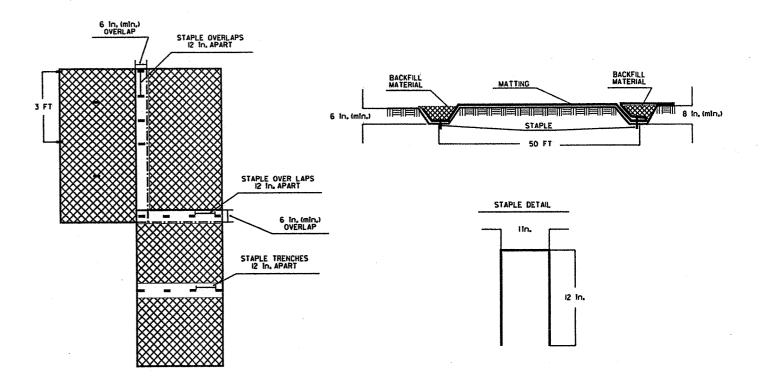
 5. GRAVEL CONSTRUCTION ENTRANCE SHALL BE LOCATED AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED. FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE MUST BE PROVIDED.

 6. NUMBER AND LOCATION OF CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE ENGINEER.

 7. ACCESS TO THE PROJECT AREA IS LIMITED TO THE SITE SPECIFIED IN THE PLANS. CARE WILL BE TAKEN TO PRESERVE THE CONCRETE CURB AND GUTTER AND ASPHALT ROADWAY FROM CONSTRUCTION TRAFFIC. ANY DAMAGE CAUSED TO THE FACILITY BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED TO AT LEAST IT'S ORIGINAL CONDITION AT NO EXPENSE TO THE DEPARTMENT.

NOTE: FILTER FABRIC TO BE PLACED BENEATH STONE

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE



COIR FIBER MAT DETAIL

PROJECT REFERENCE NO.

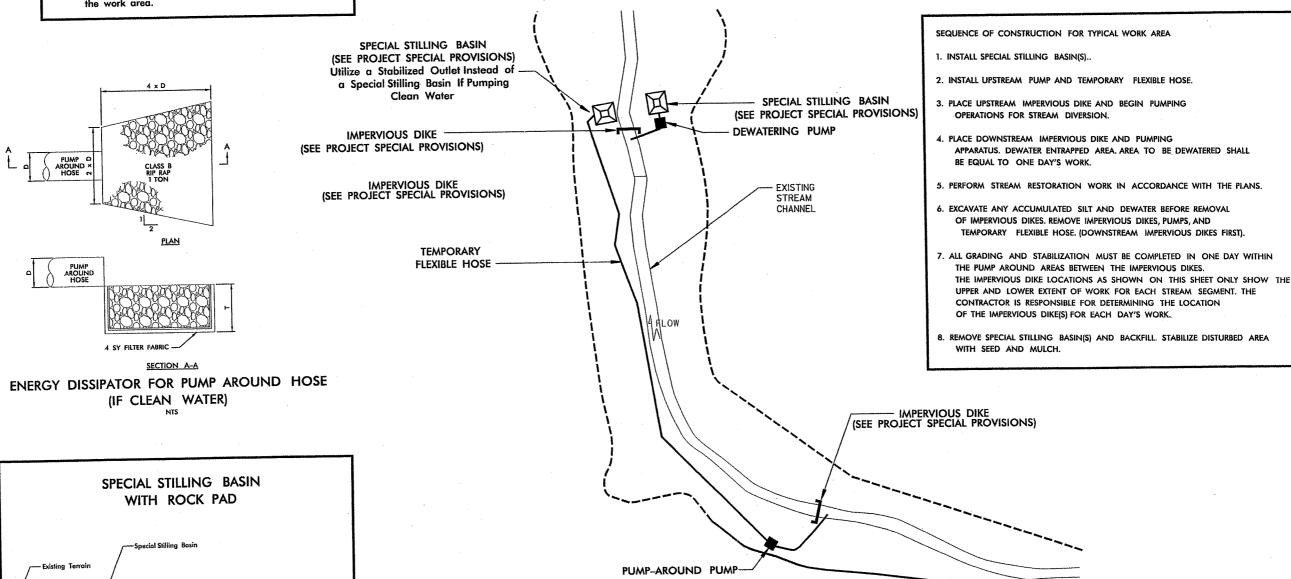
NOTES:

- All excavation shall be performed in only dry or isolated sections of channel.
- 2) Impervious dikes are to be used to isolate work from stream flow when necessary.
- 3) All graded areas shall be stabilized within 24 hours.
- 4) Maintenance of stream flow operations shall be incidental to the work. This includes polyethylene
- sheeting, diversion pipes, pumps and hoses.

 5) Pumps and hoses shall be of sufficicient size to dewater the work area.

Note: Provide Stabilized Outlet to Streamba

EXAMPLE OF PUMP-AROUND OPERATION



SPRING VALLEY PARK SUMMARY OF QUANTITIES CARO
SEAL
OZEABA
COME

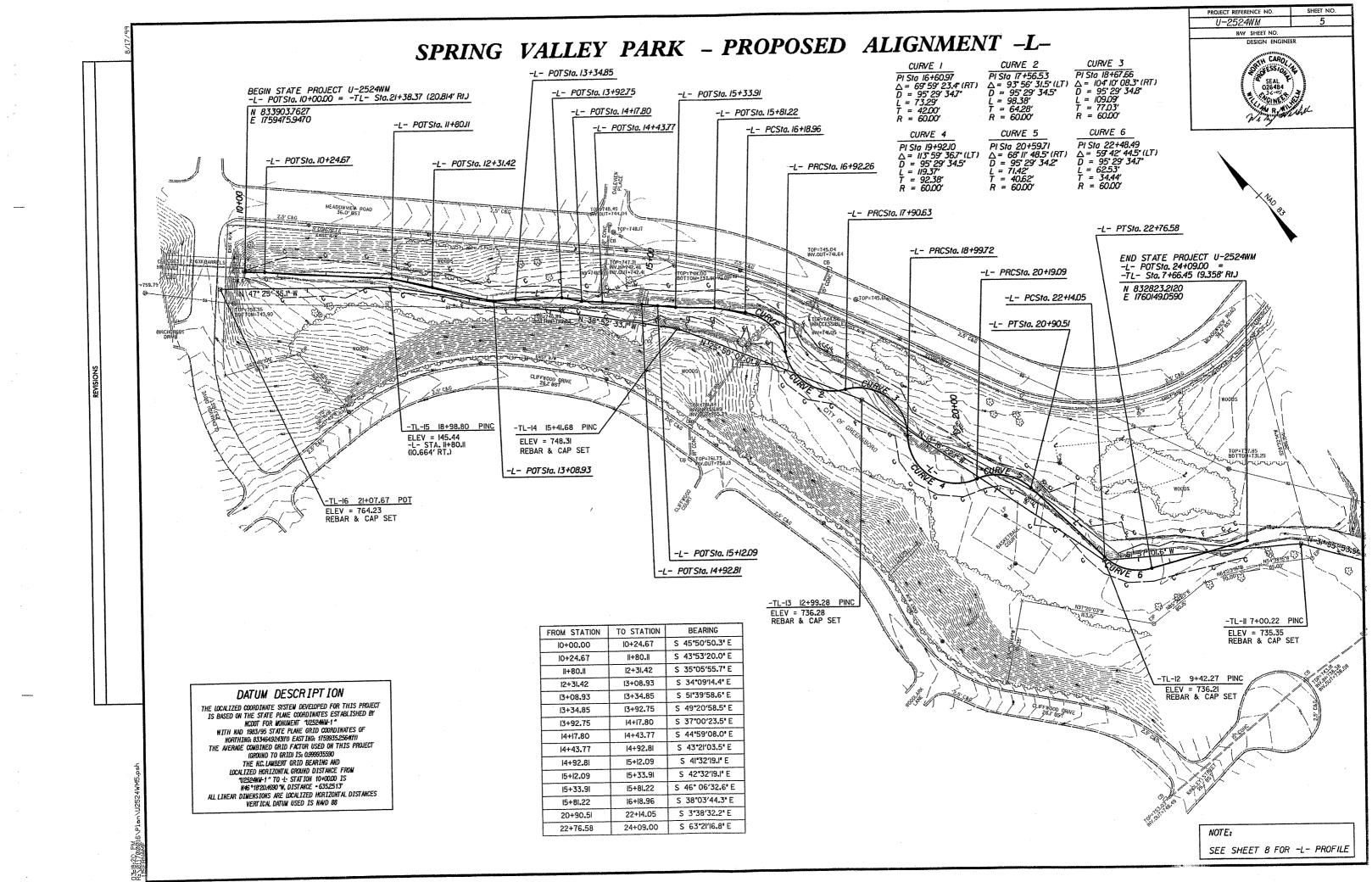
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

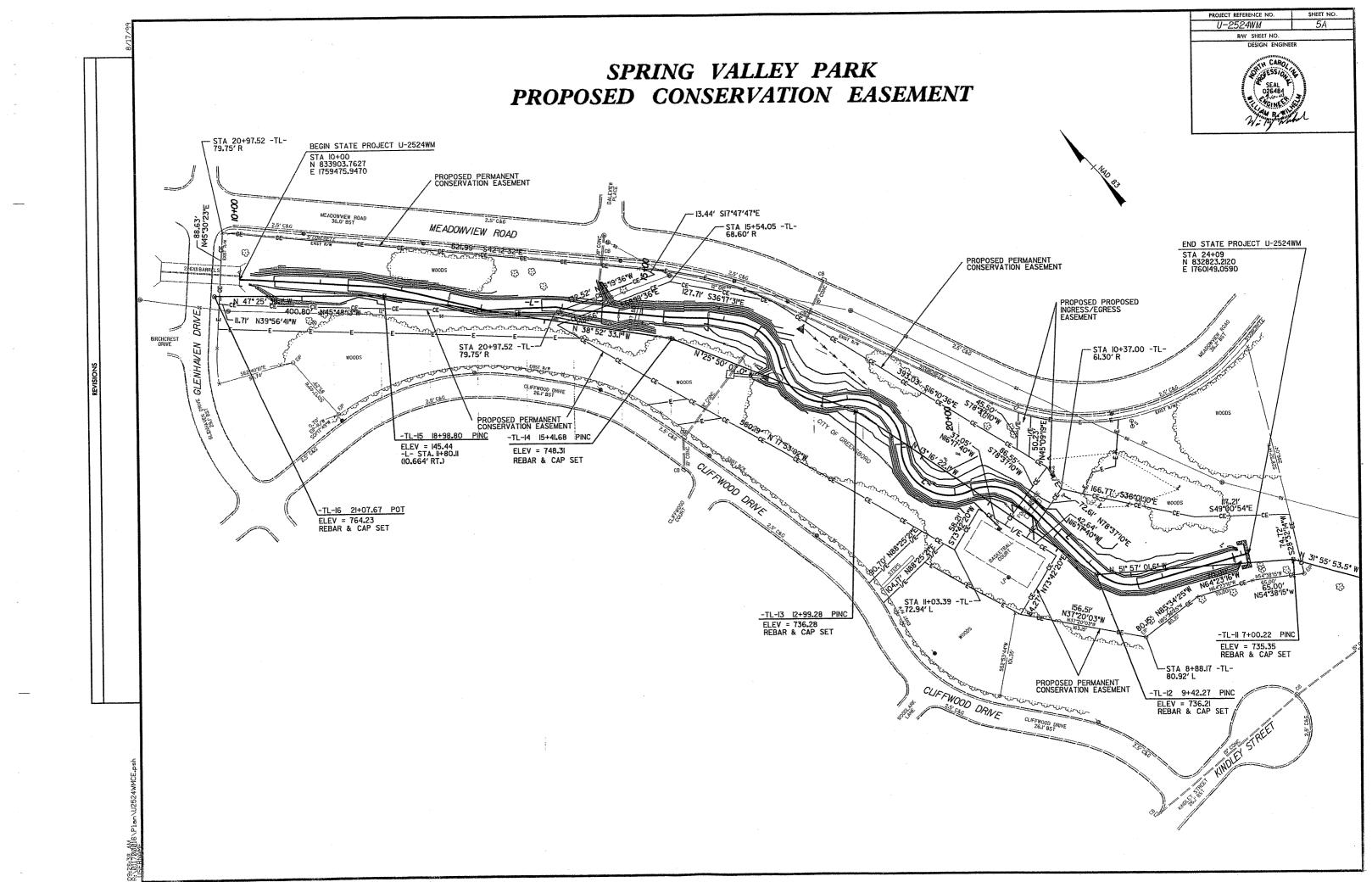
SUMMARY OF QUANTITIES

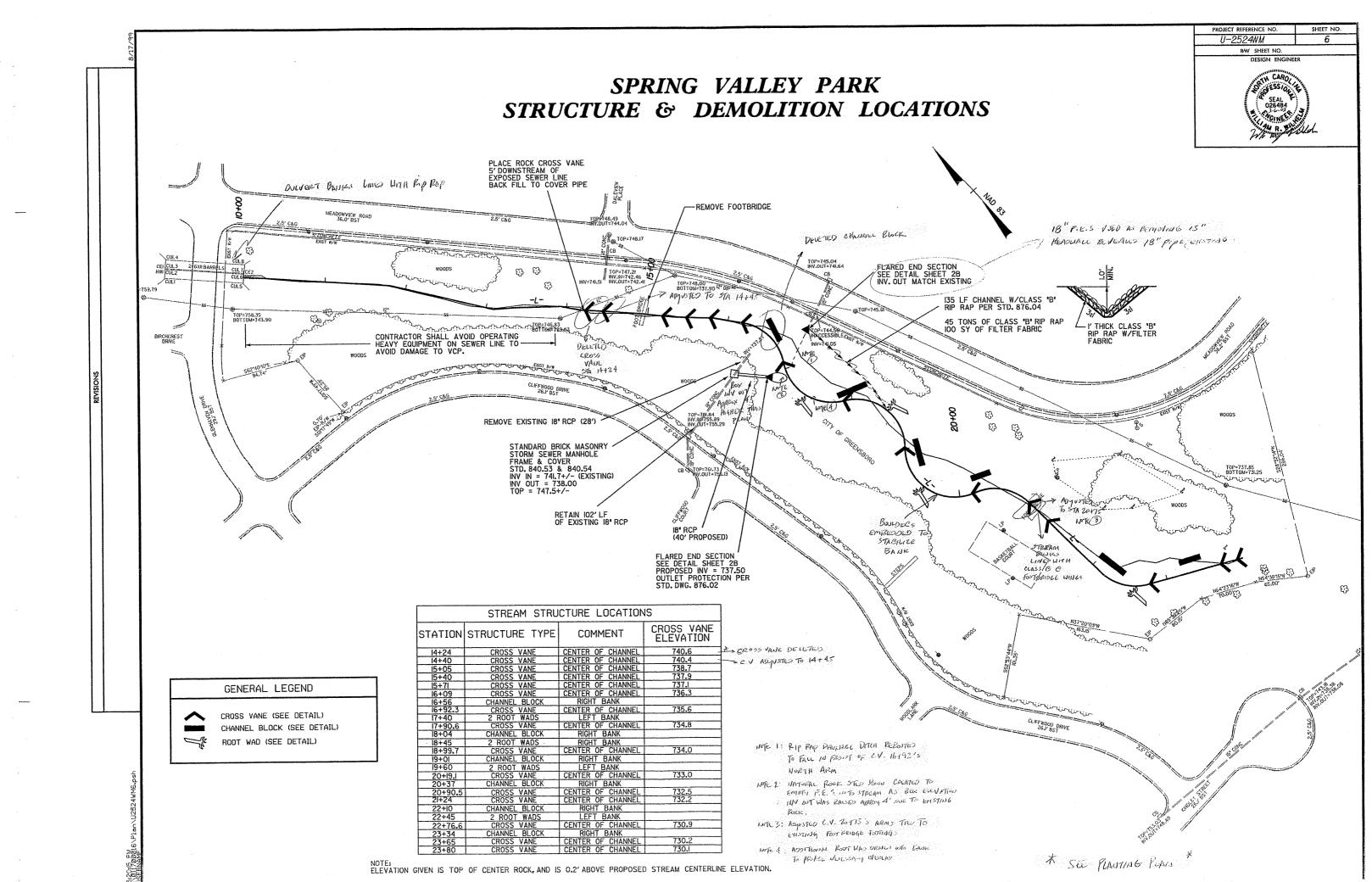
SECTION	QUANTITY	UNIT	DESCRIPTION
800	1	LS	Mobilization/Demobilization
801	1	LS	Surveys and Layout
200	-	LS	Clearing, Tree Removal, & Site Preparation
226	. [LS	Grading (2400 CY Excavation, 2000 CY Fill)
SP	135	CY	Impervious Select Material
310	40	LF	18° R.C. Pipe Culvert, Class III
340	28	LF	Pipe Removal
SP	1	LS	Removal/Demolition of Pedestrian Bridge
SP	1	EA	18" RC Flared End Section
SP	1	E,A	15° RC Flared End Section
840	I	EA	Manhole Frame With Cover, Std. 840.54
840	1	EA	Masonry Drainage Structure, Std 840.32
840	4.5	LF	Masonry Drainage Structure, Std 840.32
840	1	EA	Concrete Base Pad for Drainage Structure
876	1250	SY	Filter Fabric For Drainage
876	110	TN	Plain Rip Rap, Class B
SP	285	TN	Stone, Class Boulder
SP	. 8	EA	Root Wads
SP	2,080	SY	Coir Fiber Matting
1605	500	LF	SIIT Fence
SP	3900	LF	Safety Fence
1610	75	TN	Stone for Erosion Control, Class A
1610	40	TN	Stone for Erosion Control, Class B
1610	345	TN	Sediment Control Stone, #57
1615	4	Ac	Temporay Mulching
1620	150	LB	Seed for Temporary Seeding
1620	0.75	TON	Fertilizer for Temporary Seeding
1630	50	CY	Silt Excavation
1660	4.0	AC	Seed and Mulch
1670	1.7	AC	Buffer Reforestation
SP	0.5	AC	Streambank Reforestation (Zone I)
SP	0.1	AC	Streambank Reforestation (Zone 2)
SP	15	EA	Special Stilling Basin
SP	1	LS	Diversion Pumping

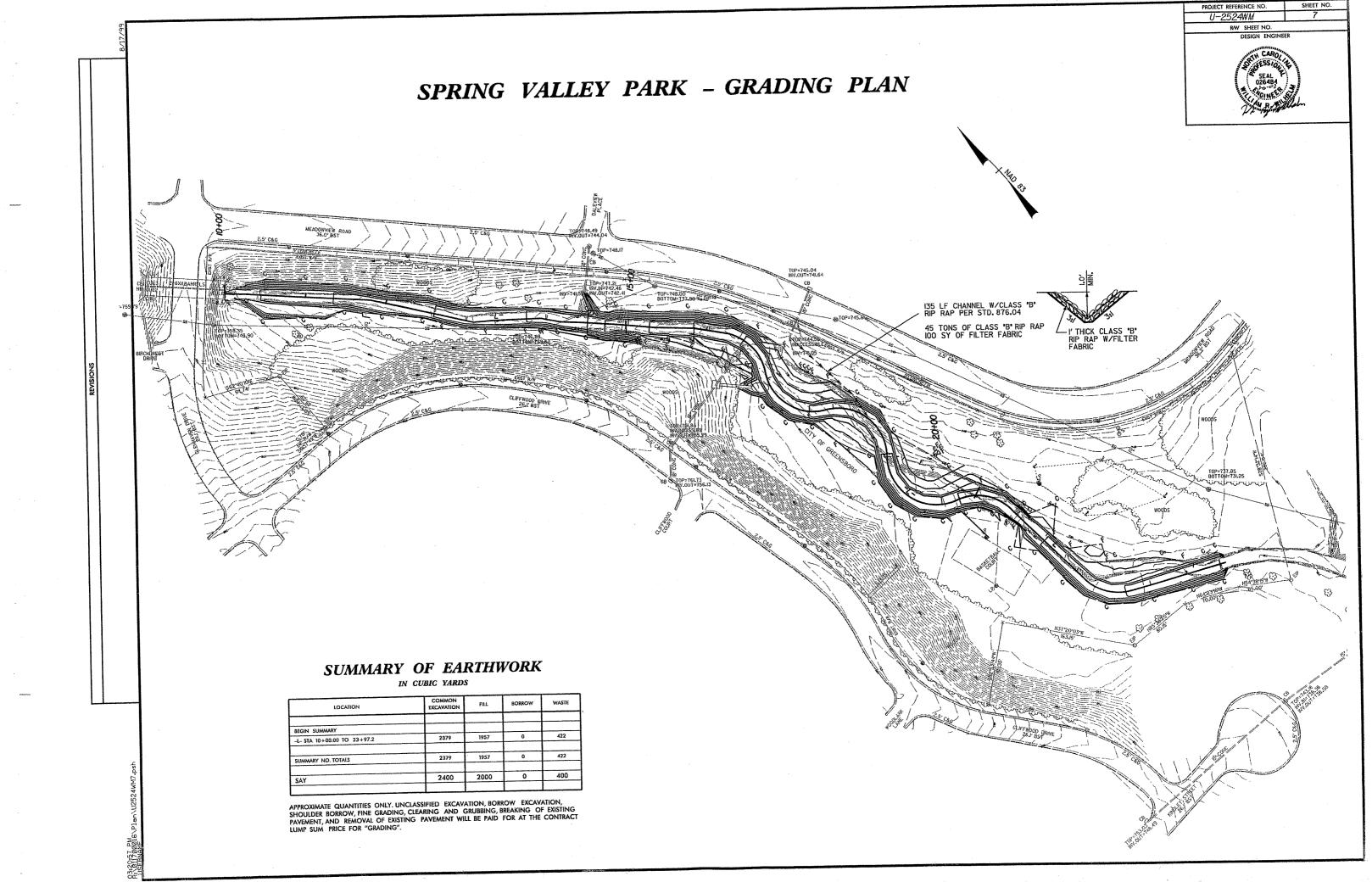
TYBBBIS/Plan/U2524WM3.PSH BNAME

PROJECT REFERENCE NO. U-2524WM RW SHEET NO. SPRING VALLEY PARK - EXISTING CONDITIONS DOUBLE 6' X II' RCBC INVERT 745.47' (RETAIN) I82 RCP INVERT 741.57' (REȚAIN) EXISTING STREAM CONCRETE PEDESTRIAN BRIDGE (TO BE REMOVED) 18"RLP 15" RCP INVERT 741.05 (RETAIN) EXISTING STREAM WOODEN PEDESTRIAN BRIDGE (RETAIN) -TL-15 18+98.80 PINC -TL-14 15+41.68 PINC ELEV = 145.44 -L- STA. 11+80.11 (10.664' RT.) ELEV = 748.31 REBAR & CAP SET -TL-16 21+07.67 POT ELEV = 764.23 REBAR & CAP SET I8" RCP INVERT 737.87 RETAIN IO2' REMOVE 28' -TL-I3 | 12+99.28 PINC ELEV = 736.28 REBAR & CAP SET -TL-II 7+00.22 PINC ELEV = 735.35 REBAR & CAP SET STEPS (RETAIN) -TL-I2 9+42.27 PINC ELEV = 736.21 REBAR & CAP SET BASKETBALL COURT (RETAIN)

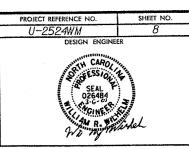


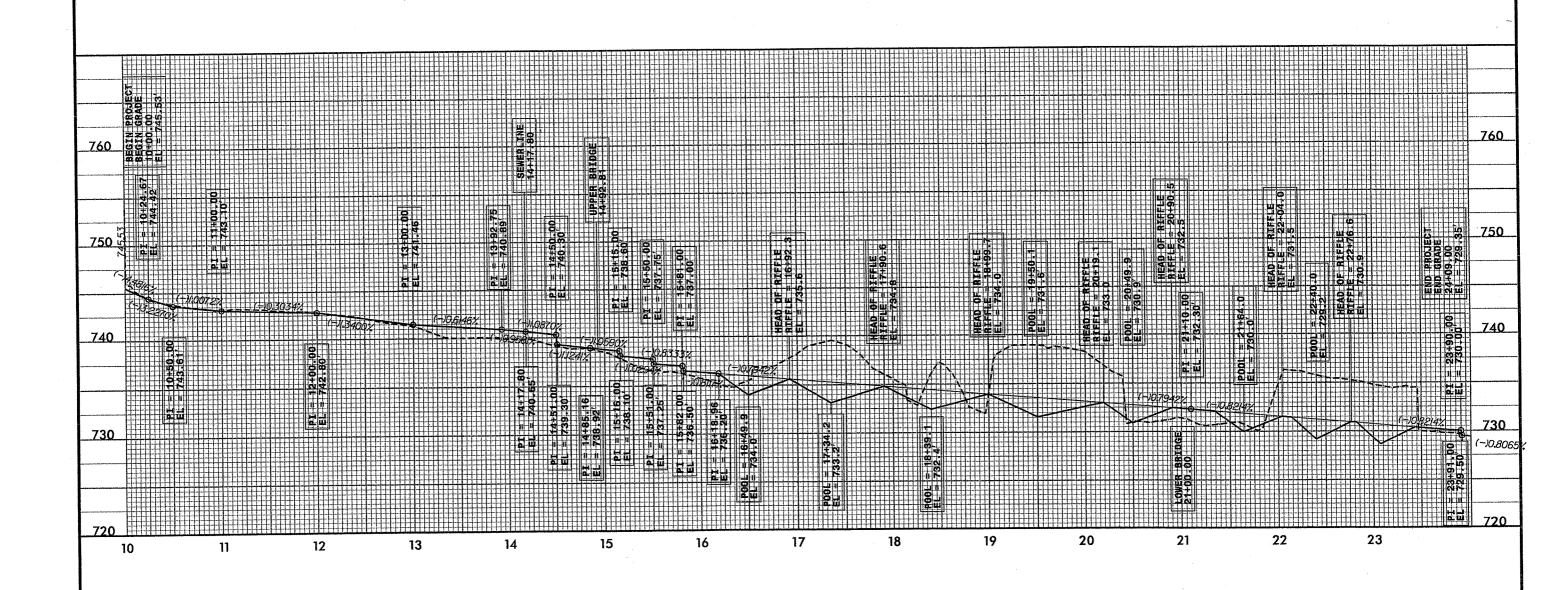






SPRING VALLEY PARK – PROFILE –L–





YSTIME\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$DGN\$\$\$\$\$\$\$ DNAME\$\$\$



ECT: 8. U492111



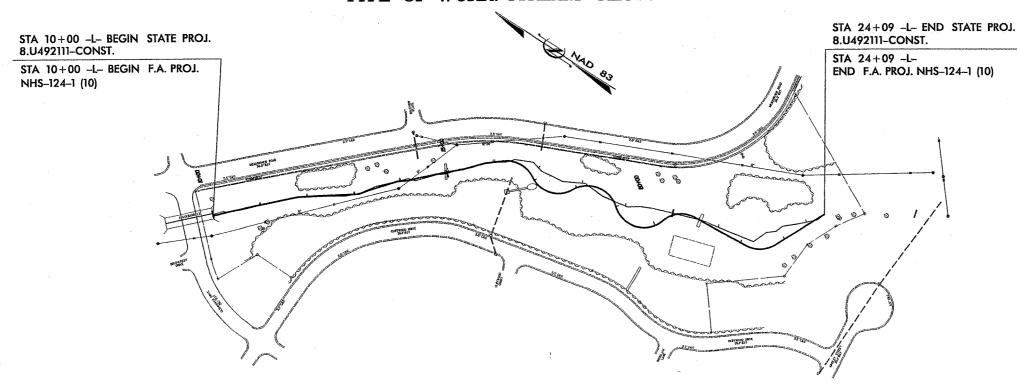
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

GUILFORD COUNTY

LOCATION: SPRING VALLEY PARK

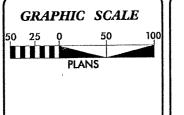
TYPE OF WORK: STREAM RESTORATION



STATE	STATE PROJECT REFERENCE NO.		SHEET NO.	TOTAL SHEETS
N.C.	U-2524WM		EC-1	
STATE	PROJ.NO.	F. A. PROJ. NO.	DESCRIPTI	ON
8.L	1492107	NHS-124-1 (8)	P.E.	
8.L	J492109	NHS-124 (10)	R /V	V
8.1	.U492111 NHS-124-1 (10) Co		Cons	it.

EROSION AND SEDIMENT CONTROL MEASURES

Sed.#	Description Symbol
	Reforestation
1630.03	Temporary Silt Ditch
1630.05	Temporary Diversion
1605.01	Temporary Silt Fence
1606.01	Special Sediment Control Fence
1622.01	Temporary Berms and Slope Drains
1630.01	Riser Basin
1630.02	Silt Basin Type B
1633.01	Temporary Rock Silt Check Type-A
1633.02	Temporary Rock Silt Check Type-B
1634.01	Temporary Rock Sediment Dam Type-A
1634.02	Temporary Rock Sediment Dam Type-B
1635.01	Rock Pipe Inlet Sediment Trap Type-A
1635.02	Rock Pipe Inlet Sediment Trap Type-B
1636.01	Rock Silt Screen
1630.04	Stilling Basin
	Rock Inlet Sediment Tran:
1632.01	Type A A ORA
1632.02	Type B B ORB)
1632.03	Type C



ROADSIDE ENVIRONMENTAL UNIT DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

Prepared In the Office of:

ROADSIDE ENVIRONMENTAL UNIT

I South Wilmington St. Raleigh, NC 27611

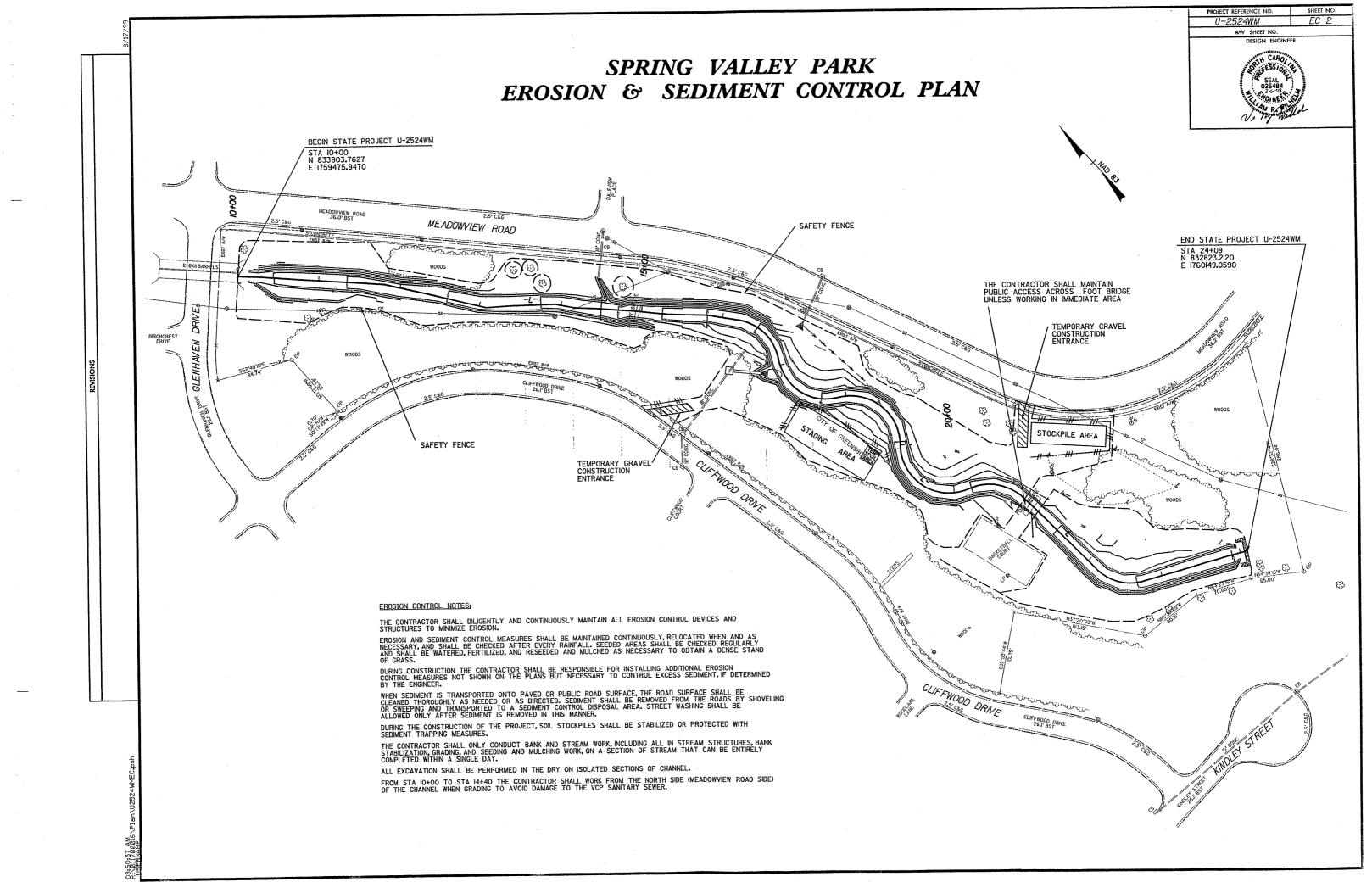
2002 STANDARD SPECIFICATIONS

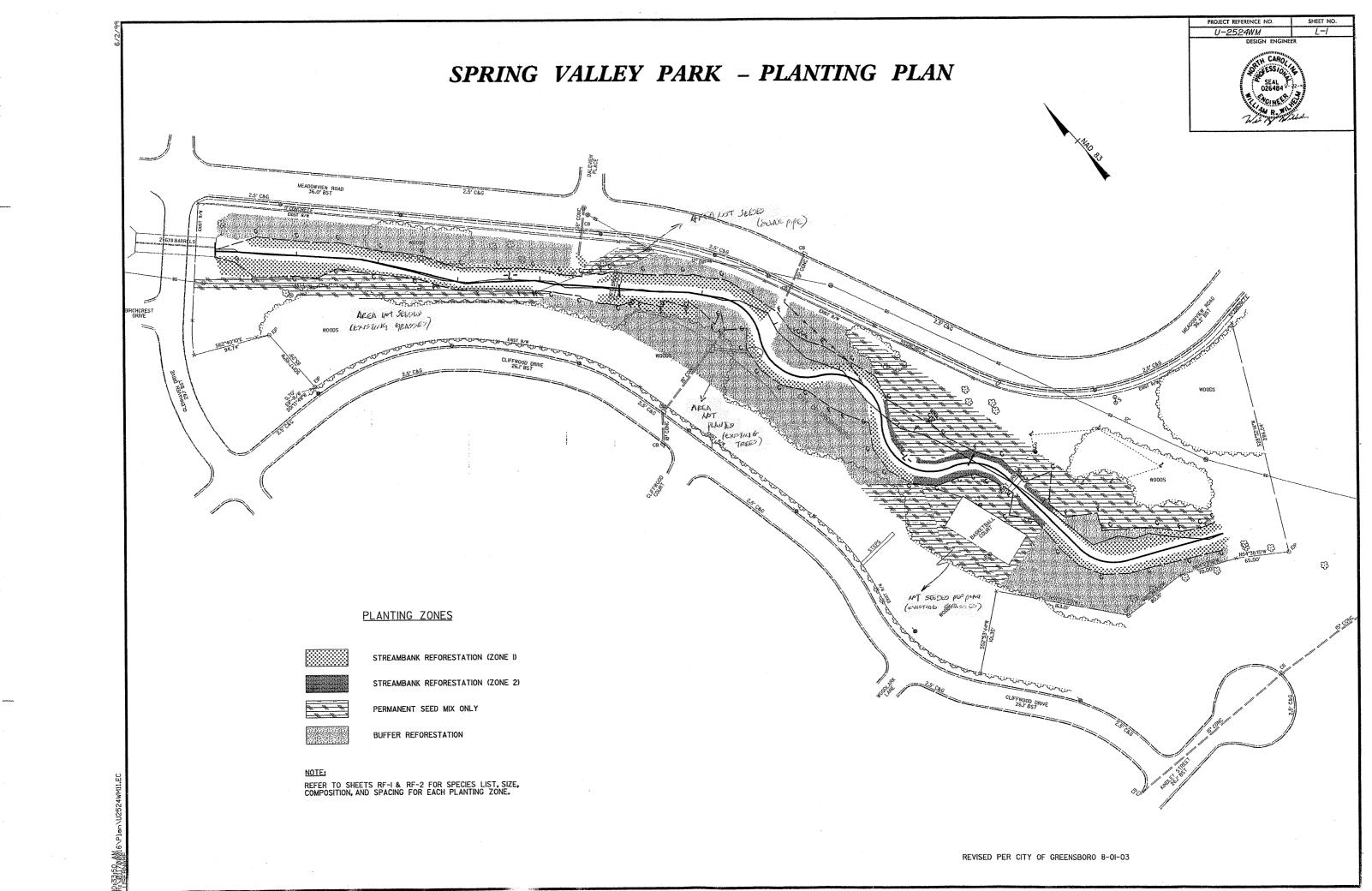
Roadway Staudard Drawing

The following roadway english standards as appear in "Roadway Standard Drawings"—Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated January 20, 2002 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605	1 Temporary Silt Fence
	1 Special Sediment Control Fence
	1 Temporary Berms and Slope Drains
1630	I Riser Basin
1630	2 Silt Basin Type B
1630	3 Temporary Silt Ditch
1630	4 Stilling Basin
1630	5 Temporary Diversion

1632.01 Rock Inlet Sediment Trap Type A
1632.03 Rock Inlet Sediment Trap Type C
1633.01 Temporary Rock Silt Check Type A
1634.01 Temporary Rock Sediment Dam Type A
1634.02 Temporary Rock Sediment Dam Type B
1635.01 Rock Pipe Inlet Sediment Trap Type A





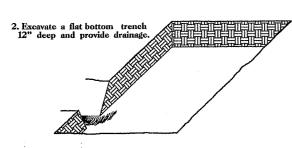
SPRING VALLEY PARK PLANTING DETAILS

PROJECT REFERENCE NO. SHEET NO. U-2524WM RW SHEET NO.

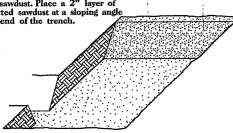
SEEDLING / LINER BAREROOT PLANTING DETAIL

HEALING IN

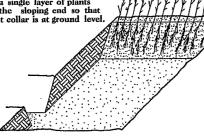
1. Locate a healing-in site in a shady, well



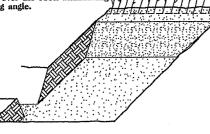
3. Backfill the trench with 2" well rotted sawdust. Place a 2" layer of well rotted sawdust at a sloping angle



4. Place a single layer of plants against the sloping end so that

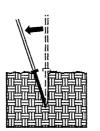


Place a 2" layer of well rotted sawdust over the roots maintaini a sloping angle.

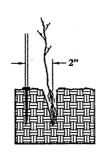


Repeat layers of plants and sawdust as necessary and water thoroughly.

DIBBLE PLANTING METHOD USING THE KBC PLANTING BAR









toward planter, firming soil at bottom.



5. Push handle forward firming soil at top.

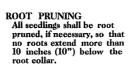


PLANTING NOTES:

PLANTING BAG During planting, seedlings shall be kept in a moist canvas bag or similar container to prevent the root systems from drying



KBC PLANTING BAR
Planting bar shall have a
blade with a triangular
cross section, and shall
be 12" long, 4" wide and
1" thick at center.





SPECIES LIST

Buffer Reforestation

·		
Species (Bare roots)	Percent Composition	Size (minimum)
Betula nigra (river birch)	20	18"-36"
Quercus michauxii (Swamp Chestnut Oak)	20	18"-36"
Liriodendron tulipfera (Yellow Poplar)	20	18"-36"
Platanus occidentalis (American Sycamore)	20	18"-36"
Quercus phellos (willow oak)	20 .	18"-36"

Bare rooted shrubs and trees will be planted on eight foot centers.

Streambank Reforestation (Zone 1)

Species (Bare Roots)	Percent Composition	Size (minimum)
Cornus amomum (sılky dogwood)	33.3	12"-18"
Salıx nıgra (black willow)	33.3	12"-18"
Alnus Serrlata (Tag Alder)	33.3	12"-18"

Streambank Reforestation (Zone 2)

Species (Bare roots)	Percent Composition	Size (Minimum)
Callicarpa Americana (American BeautyBerry)	33.3	12"-18"
Itca Virginica (Virginia Willow)	33.3	12"-18"
Xanthorhiza Simplicissima (Yellowroot)	33 . 3	12"-18"

ZONE LAND ZONE 2 STREAMBANK REFORESTATION SHALL BE PLANTED 3 FT. TO 5 FT. ON CENTER, RANDOM SPACING, AVERAGING 4 FT. ON CENTER, APPROXIMATELY 2724 PLANTS PER ACRE.

NOTE: ZONE I AND ZONE 2 STREAMBANK REFORESTATION SHALL BE PAID FOR AS "STREAMBANK REFORESTATION"

SEE PLANTING PLAN SHEET L-I FOR AREAS TO BE PLANTED

SPRING VALLEY PARK CROSS-SECTION SUMMARY

IN CUBIC YARDS

O LOL IIIII	<u> </u>
RW SHEET NO.	
DESIGN ENGI	NEER
CARO OZGABA OZGABA OZGABA OZGABA OZGABA	Jul .

STATION	COMMON EXCAVATION	FILL
-L-		
10+00	0	0
10+25	0	. 0
10+50	42	. 0
10+75	75	0
11+00	63	0
11+25	53	0
. //+50	41	. 0
<i>II+</i> 75	29	0
12+00	22	0
12+25	19	0
12+50	21	2
12+75	19	4
<i>13+00</i>	16	6
13+25	14	
/3+50	10	18
<i>13+</i> 75	7	. 19
13+92.75	3	14
14+00	1	6
14+17.80	1	12
14+25	1	3
14+50	4	12
14+51	1.	0
14+75	27	1
14+85	14	0
15+00	20	. 1
I5+I5	14	3
<i>15+16</i>	,	0
15+25	8	2
15+50	24	10
15+51	, ,	0
15+75	35	6
15+81	8	2
15+82	2	0
16+00	31	4
16+18.96	28	//

APPROXIMATE QUANTITIES ONLY, UNCLASSIFIED EXCAVATION, BORROW EXCAVATION, SHOULDER BORROW, FINE GRADING, CLEARING AND GRUBBING, BREAKING OF EXISTING PAVEMENT, AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "GRADING".

STATION	EXCAVATION EXCAVATION	FILL
-L-		
16+25	6	5
16+50	15	42
16+75	13	59
17+00	39	66
17+25	71	80
17+50	79	80
l7+75	59	85
18+00	26	93
18+25	//	77
18+50	3/	58
18+75	. 31	49
19+00	20	70
19+25	73	120
19+50	129	126
19+75	/36	103
20+00	127	83
20+25	94	75
20+50	41	54
20+75	12	24
21+00	5	16
21+10	0	5
2/+25	15	9
2J+50	37	19
2/+75	30	26
22+00	46	39
22+25	71	57
22+50	95	65
22+75	104	64
23+00	98	63
23+25	86	54
23+50	63	3/
23+75	38	//
23+90	21	2
23+91	2	0
SUMMARY TOTALS	2,379	1,957

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