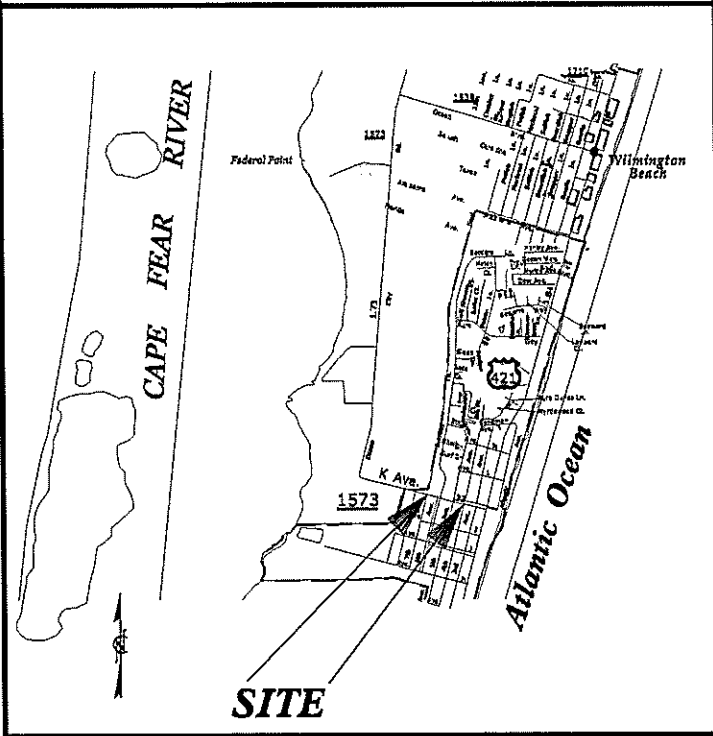


9/18/2013

**PROJECT: 3603.3.25**

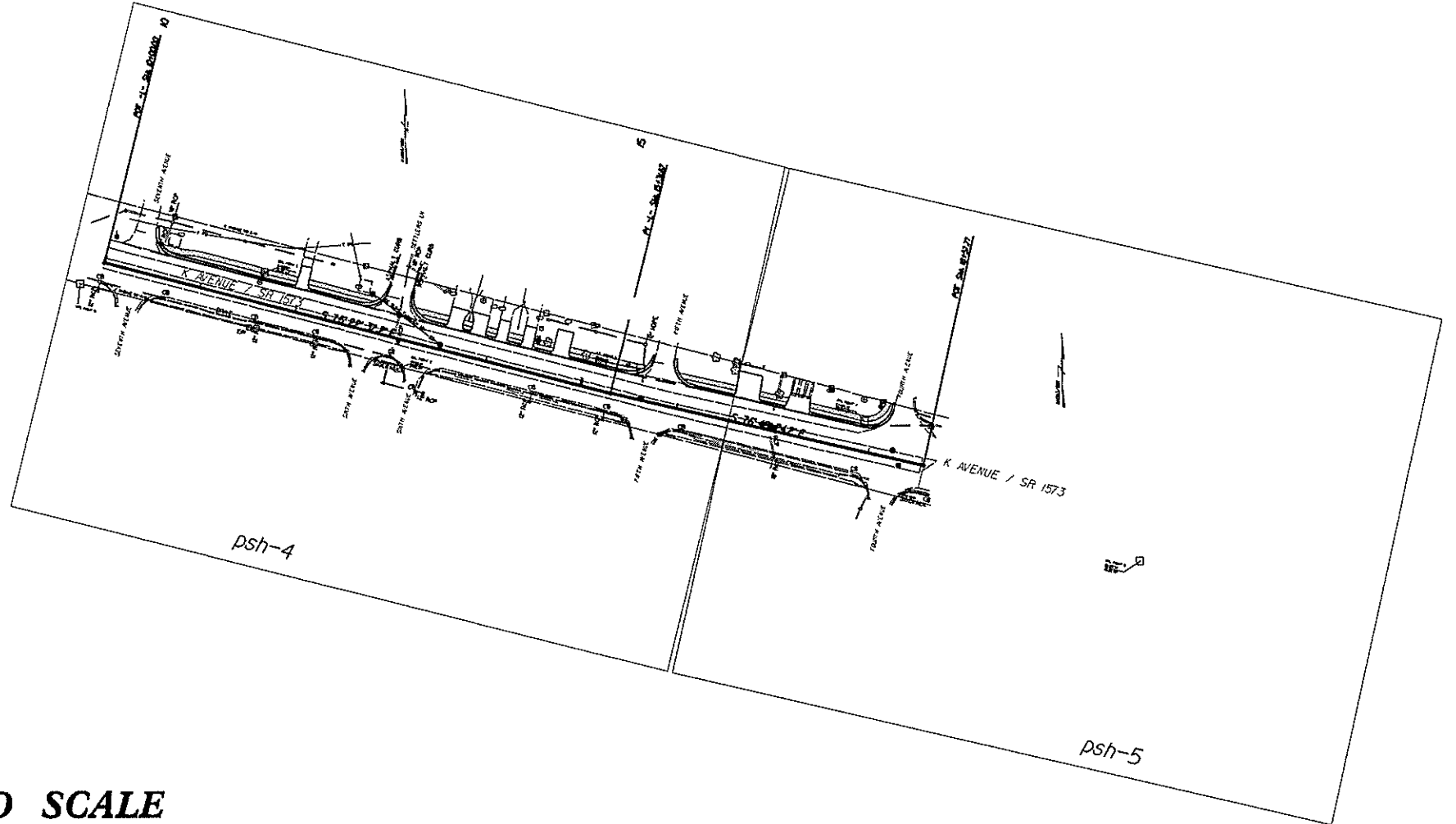


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**NEW HANOVER COUNTY**

**LOCATION:** SR 1573 (K Avenue) in Kure Beach from Seventh Avenue to Fourth Avenue.  
**TYPE OF WORK:** Drainage, Curb & Gutter, and Concrete Sidewalk.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	3603.3.25	1	20
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
	3603.3.25		



**NOT TO SCALE**

**GRAPHIC SCALES**



**PROJECT LENGTH**  
MAP NO.1 (-L- SR 1573) = 0.156 MI.  
TOTAL = 0.156 MI.

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**

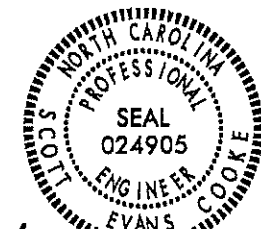
5501 Barbados Blvd., Castle Hayne, NC 28429

2012 STANDARD SPECIFICATIONS

LETTING DATE:  
FEBRUARY 6, 2014

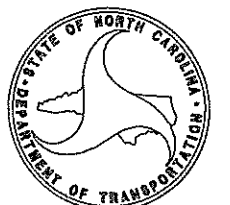
SCOTT E. COOKE, PE  
PROJECT ENGINEER

CARLA M. SCHOONMAKER  
PROJECT DESIGN TECHNICIAN



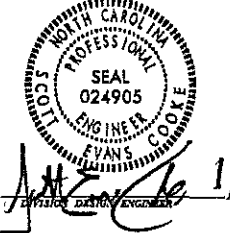
*Carla M. Schoonmaker* 1/14/14  
DIVISION DESIGN ENGINEER

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA



STATE HIGHWAY DESIGN ENGINEER P.E.

I:\A-111\2013\0113\DEVAL\K\F00DHWAY\PROJ\NCAVE\_Rdy\_pshs.dgn



GENERAL NOTES:

2012 SPECIFICATIONS  
EFFECTIVE: 01-17-2012  
REVISED: 07-30-2012

INDEX OF SHEETS

GRADE LINE:  
GRADING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED OR FUTURE SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

DRIVEWAYS:

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3' RADII OR RADII AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

UTILITIES:

NO SUBSURFACE UTILITY INVESTIGATIONS HAVE BEEN PERFORMED. ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS (EXCLUDING WATER AND SEWER).

UTILITY OWNERS ON THIS PROJECT ARE:

- ELECTRIC - DUKE ENERGY PROGRESS (SHELIA TALTON, 919-481-6126)
- PHONE - AT&T (SHANNON COSTON, 910-341-1623)
- CABLE - CHARTER COMMUNICATIONS (NICK BROWN, 910-329-1775)
- WATER / SEWER - TOWN OF KURE BEACH PUBLIC WORKS (910-458-5816)

SUBSURFACE PLANS:

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

CURB RAMPS:

CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.05, 848.06 AND/OR THE ATTACHED DETAILS.

SHEET NUMBER

SHEET

1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
1-C	ALIGNMENT DESCRIPTION
2 THRU 2-F	TYPICAL SECTIONS AND DETAILS
3A	DRAINAGE SUMMARY
4 & 5	PLAN SHEET
PM-1 THRU PM-3	PAVEMENT MARKING PLANS
EC-1 THRU EC-3	EROSION CONTROL PLANS

EFF. 01-17-2012  
REV. 10-30-2012

2012 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch -N. C. Department of Transportation - Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method II
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 8 - INCIDENTALS	
840.00	Concrete Base Pad for Drainage Structures
840.01	Brick Catch Basin - 12" thru 54" Pipe
840.02	Concrete Catch Basin - 12" thru 54" Pipe
840.03	Frame, Grates and Hood - for Use on Standard Catch Basin
840.14	Concrete Drop Inlet - 12" thru 30" Pipe
840.15	Brick Drop Inlet - 12" thru 30" Pipe
840.16	Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15
840.34	Traffic Bearing Junction Box - for Use with Pipes 42" and Under
840.54	Manhole Frame and Cover
846.01	Concrete Curb, Gutter and Curb & Gutter
848.01	Concrete Sidewalk
848.02	Driveway Turnout - Radius Type
848.05	Curb Ramp - Proposed Curb & Gutter

8/17/99  
02-JAN-2014 10:41 AM NEW\_HANDOVER\_K\_AVE\_SIDEWALK\_ROADWAY\_Proj\KAYE\_Rdy\_pshs.dgn

12/05/11

Note: Not to Scale

\*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# CONVENTIONAL PLAN SHEET SYMBOLS

### BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	⊙
Property Corner	⊗
Property Monument	⊠
Parcel/Sequence Number	Ⓜ
Existing Fence Line	-----
Proposed Woven Wire Fence	-----
Proposed Chain Link Fence	-----
Proposed Barbed Wire Fence	-----
Existing Wetland Boundary	-----
Proposed Wetland Boundary	-----
Existing Endangered Animal Boundary	-----
Existing Endangered Plant Boundary	-----
Known Soil Contamination: Area or Site	☠
Potential Soil Contamination: Area or Site	☠?

### BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	⊙
Well	⊙
Small Mine	⊗
Foundation	⊠
Area Outline	⊠
Cemetery	⊠
Building	⊠
School	⊠
Church	⊠
Dam	⊠

### HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
Jurisdictional Stream	-----
Buffer Zone 1	-----
Buffer Zone 2	-----
Flow Arrow	-----
Disappearing Stream	-----
Spring	-----
Wetland	-----
Proposed Lateral, Tail, Head Ditch	-----
False Sump	-----

### RAILROADS:

Standard Gauge	-----
RR Signal Milepost	-----
Switch	-----
RR Abandoned	-----
RR Dismantled	-----

### RIGHT OF WAY:

Baseline Control Point	◆
Existing Right of Way Marker	△
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Proposed Right of Way Line with Iron Pin and Cap Marker	-----
Proposed Right of Way Line with Concrete or Granite RW Marker	-----
Proposed Control of Access Line with Concrete CA Marker	-----
Existing Control of Access	-----
Proposed Control of Access	-----
Existing Easement Line	-----
Proposed Temporary Construction Easement	-----
Proposed Temporary Drainage Easement	-----
Proposed Permanent Drainage Easement	-----
Proposed Permanent Drainage / Utility Easement	-----
Proposed Permanent Utility Easement	-----
Proposed Temporary Utility Easement	-----
Proposed Aerial Utility Easement	-----
Proposed Permanent Easement with Iron Pin and Cap Marker	-----

### ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-----
Proposed Slope Stakes Fill	-----
Proposed Curb Ramp	-----
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	-----
VEGETATION:	
Single Tree	⊙
Single Shrub	⊙
Hedge	-----
Woods Line	-----

Orchard	-----
Vineyard	-----

### EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	-----
Bridge Wing Wall, Head Wall and End Wall	-----
MINOR:	
Head and End Wall	-----
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	-----
Paved Ditch Gutter	-----
Storm Sewer Manhole	-----
Storm Sewer	-----

### UTILITIES:

POWER:	
Existing Power Pole	-----
Proposed Power Pole	-----
Existing Joint Use Pole	-----
Proposed Joint Use Pole	-----
Power Manhole	-----
Power Line Tower	-----
Power Transformer	-----
U/G Power Cable Hand Hole	-----
H-Frame Pole	-----
Recorded U/G Power Line	-----
Designated U/G Power Line (S.U.E.*)	-----

### TELEPHONE:

Existing Telephone Pole	-----
Proposed Telephone Pole	-----
Telephone Manhole	-----
Telephone Booth	-----
Telephone Pedestal	-----
Telephone Cell Tower	-----
U/G Telephone Cable Hand Hole	-----
Recorded U/G Telephone Cable	-----
Designated U/G Telephone Cable (S.U.E.*)	-----
Recorded U/G Telephone Conduit	-----
Designated U/G Telephone Conduit (S.U.E.*)	-----
Recorded U/G Fiber Optics Cable	-----
Designated U/G Fiber Optics Cable (S.U.E.*)	-----

### WATER:

Water Manhole	-----
Water Meter	-----
Water Valve	-----
Water Hydrant	-----
Recorded U/G Water Line	-----
Designated U/G Water Line (S.U.E.*)	-----
Above Ground Water Line	-----

### TV:

TV Satellite Dish	-----
TV Pedestal	-----
TV Tower	-----
U/G TV Cable Hand Hole	-----
Recorded U/G TV Cable	-----
Designated U/G TV Cable (S.U.E.*)	-----
Recorded U/G Fiber Optic Cable	-----
Designated U/G Fiber Optic Cable (S.U.E.*)	-----

### GAS:

Gas Valve	-----
Gas Meter	-----
Recorded U/G Gas Line	-----
Designated U/G Gas Line (S.U.E.*)	-----
Above Ground Gas Line	-----

### SANITARY SEWER:

Sanitary Sewer Manhole	-----
Sanitary Sewer Cleanout	-----
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	-----
Recorded SS Forced Main Line	-----
Designated SS Forced Main Line (S.U.E.*)	-----

### MISCELLANEOUS:

Utility Pole	-----
Utility Pole with Base	-----
Utility Located Object	-----
Utility Traffic Signal Box	-----
Utility Unknown U/G Line	-----
U/G Tank; Water, Gas, Oil	-----
Underground Storage Tank, Approx. Loc.	-----
A/G Tank; Water, Gas, Oil	-----
Geoenvironmental Boring	-----
U/G Test Hole (S.U.E.*)	-----
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# ALIGNMENT AND CONTROL DESCRIPTIONS

Beginning chain L description

```

=====
Point 1                N          92,499.5961 E      2,330,144.5169 Sta      10+00.00
Course from 1 to 3 S 75° 22' 37.23" E Dist 531.6662
Point 3                N          92,365.3729 E      2,330,658.9613 Sta      15+31.67
Course from 3 to 4 S 76° 48' 24.20" E Dist 326.1041
Point 4                N          92,290.9440 E      2,330,976.4581 Sta      18+57.77
=====
  
```

Ending chain L description

**SURVEYED BY:**  
TODD JENKINS, PC  
LICENSE NO.: C-3267  
1252 NC 241 HIGHWAY  
PINK HILL, N.C. 28572

*GENERAL NOTES:*  
1. ALL CONTROL POINTS SET WITH GPS WITH ELEVATIONS SET BY LEVEL.  
2. U/G UTILITIES SHOWN ARE APPROXIMATE. THEY WERE LOCATED FROM MARKERS FOUND ON GROUND.  
3. ROAD NAMES AND PROPERTY OWNERS TAKEN FROM CURRENT NEW HANOVER COUNTY GIS.  
4. PROPERTY LINES TAKEN FROM CURRENT NEW HANOVER COUNTY GIS AND NOT ACTUALLY SURVEYED AND ARE APPROXIMATE.  
5. OPUS REPORT ATTACHED.  
6. SIDEWALK ON SOUTH SIDE OF K AVENUE LOCATED WITH GPS.

**K AVENUE LOCATION SURVEY  
KURE BEACH, NEW HANOVER COUNTY, N.C.**

Control Point	North	East	Elevation
Pt 1	N 92489.3459	E 2330307.8886	Z 23.3923
Pt 2	N 92391.7129	E 2330443.0937	Z 24.5577
Pt 3	N 92390.1222	E 2330689.8177	Z 23.3577
Pt 4	N 92336.0907	E 2330916.8177	Z 23.3177
Pt 5	N 92478.3459	E 2330119.6422	Z 24.4561
Pt 6	N 92193.0201	E 2331195.7152	Z 22.7063

**DATUM DESCRIPTION**

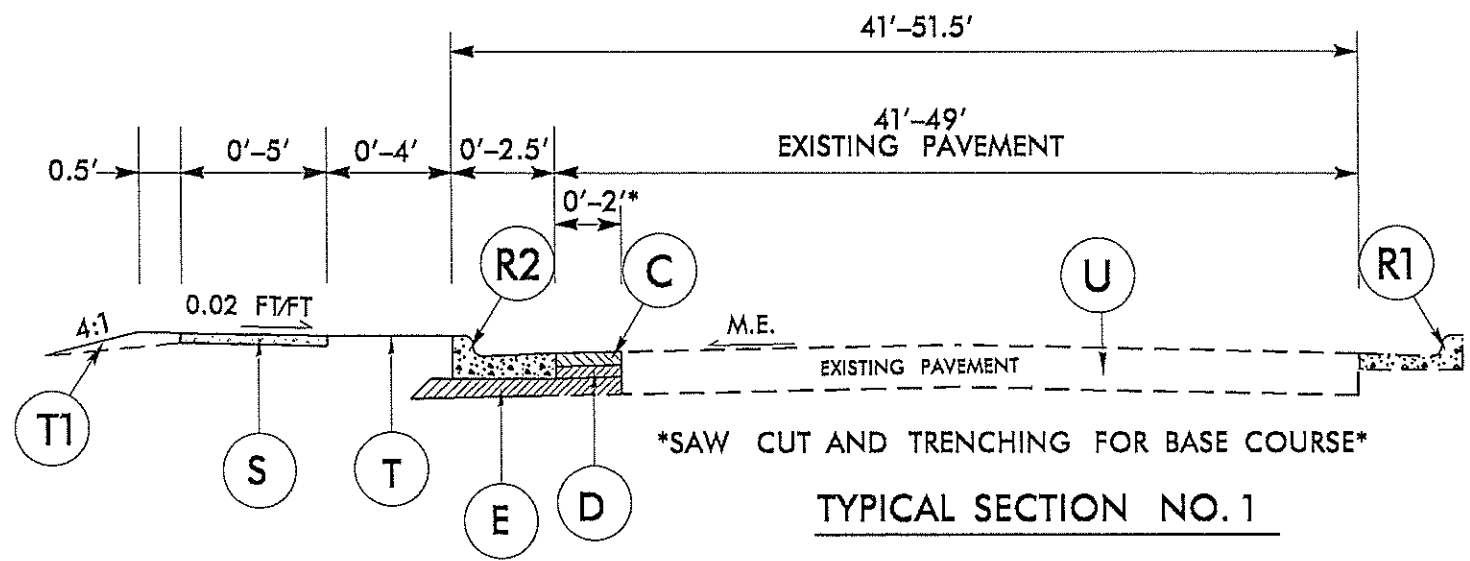
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NGS FOR MONUMENT "OPUS SOLUTION"  
WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF  
PT. 1-NORTHING: 49703.851(ft) EASTING: 2148656.27031(ft)  
ELEVATION: 12.901(ft)  
THEN TRANSLATED USING NCDOT CONTROL POINT BL-30  
PT. 1-NORTHING: 92489.351(ft) EASTING: 2330307.891(ft)  
ELEVATION: 23.391(ft)  
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.000114  
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "OPUS SOLUTION" PT. 1 TO PT. 2  
S 54°10'00" E 166.77' NO CENTERLINE ALIGNMENT SET  
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES  
VERTICAL DATUM USED IS NAVD 88

8/17/99

88-0965-2011-NEW HANOVER KY AVE SIDEWALK ROADWAY Proj IN AVE\_Rdy.pbx.dgn  
C:\cadd\2011\88-0965-2011-NEW HANOVER KY AVE SIDEWALK ROADWAY



*Handwritten signature and date: 1/2/14*



\*SAW CUT AND TRENCHING FOR BASE COURSE\*

**TYPICAL SECTION NO. 1**

SR 1573 (K AVENUE)  
-L- STA. 10+42.94 TO 18+16.52

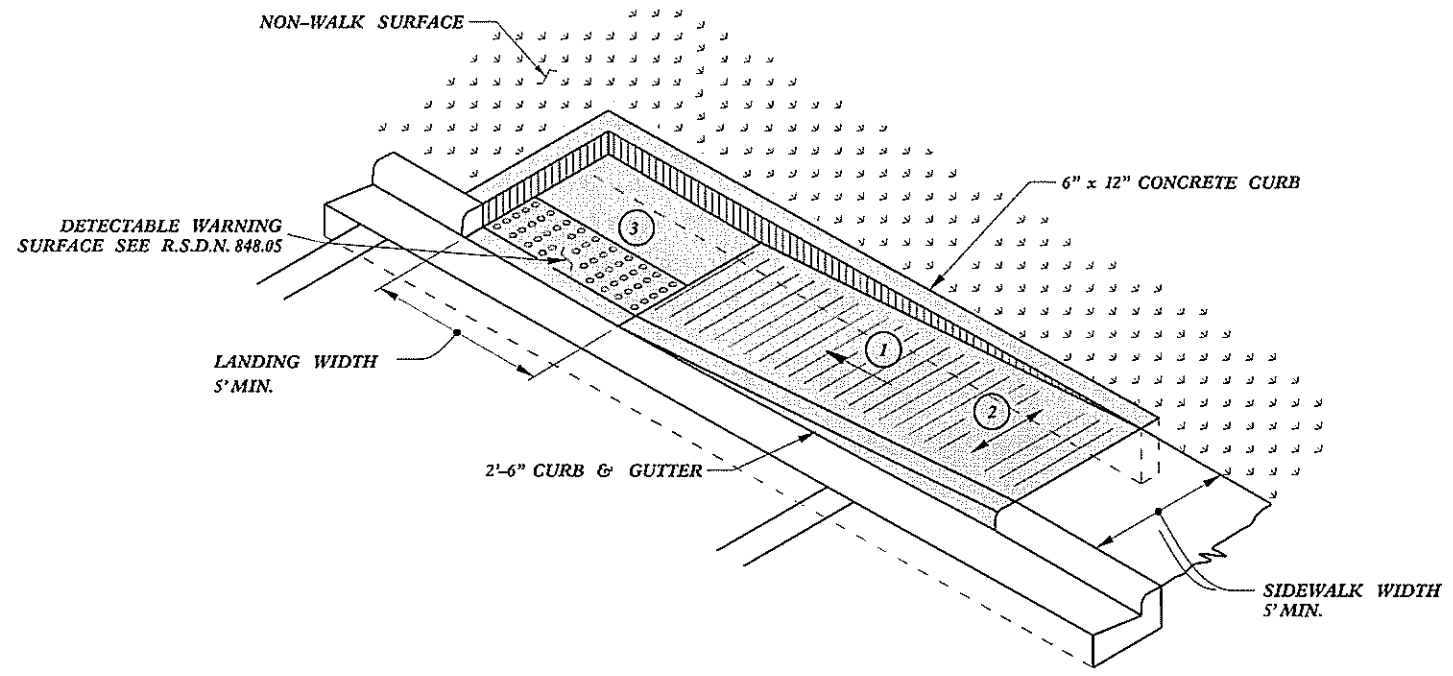
PAVEMENT SCHEDULE	
C	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 166 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
D	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 458 LBS. PER SQ. YD.
E	PROP. APPROX. 3" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
R1	EXISTING CONCRETE 2'-8" CURB & GUTTER
R2	PROPOSED CONCRETE 2'-6" CURB & GUTTER
S	PROPOSED 4" CONCRETE SIDEWALK
T	GRASS STRIP
T1	EARTH MATERIAL
U	EXISTING PAVEMENT

**NOT TO SCALE**

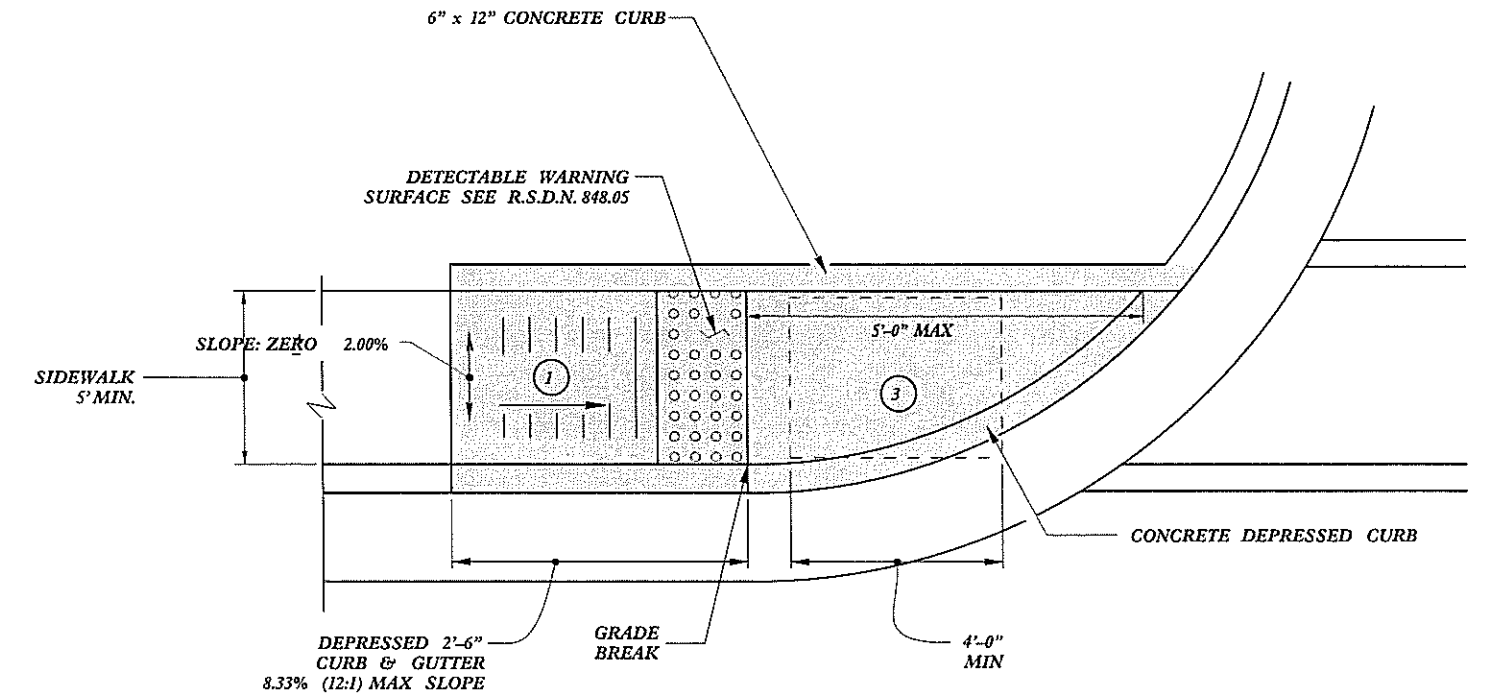
9/17/13

D:\CADD\2013\NEW HANDOVER\K AVE SIDEWALK\ROADWAY\Proj\K\_AVE\_TYP.dgn

PAY LIMITS FOR CURB RAMP



**TYPE 1A**



**TYPE 1**

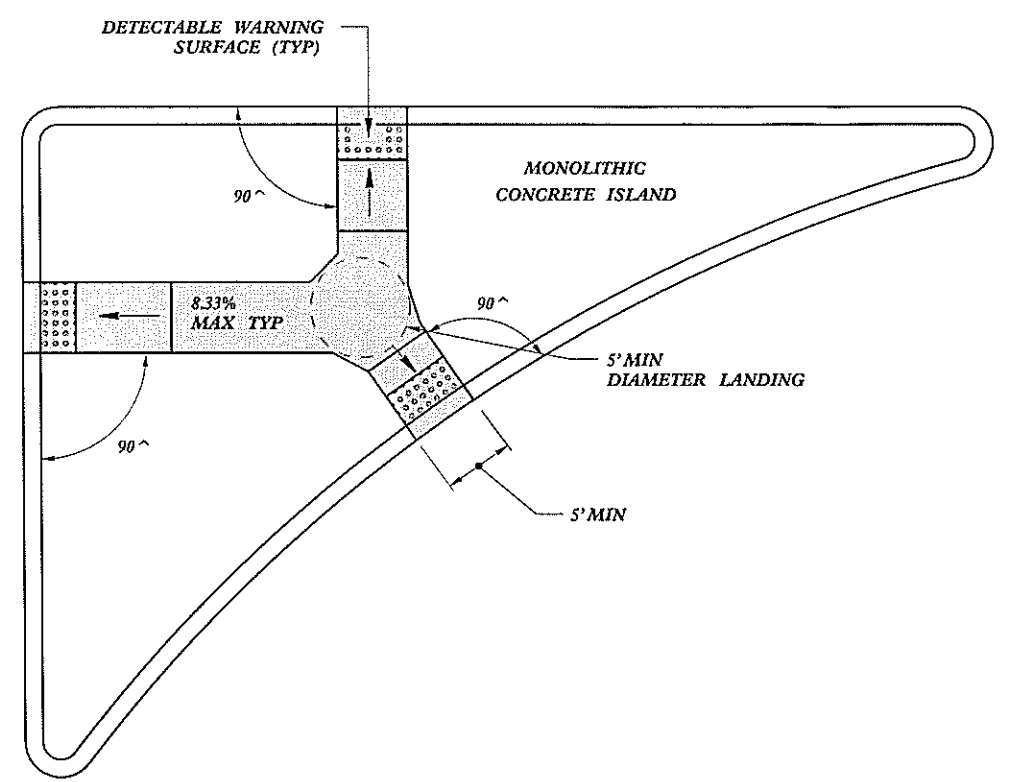
- ① 8.33% (12:1) MAX RAMP SLOPE
- ② CROSS SLOPE: 2.00%
- ③ CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

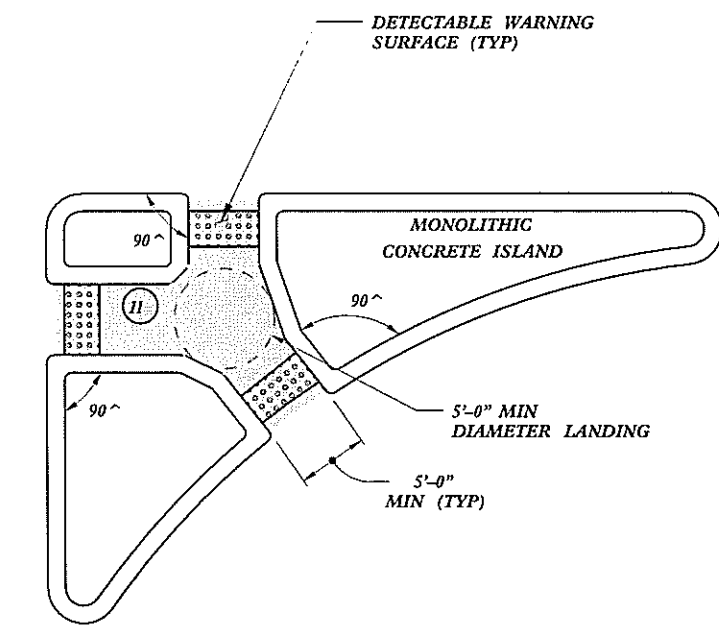
<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950	FAX 919-250-4119
<b>CURB RAMPS</b>	
Directional Ramps	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY: _____	DATE: _____
CHECKED BY: _____	DATE: _____
FILE SPEC: sds/2012CurbRamp/CurbRampDetails.dwg	

5/14/09  
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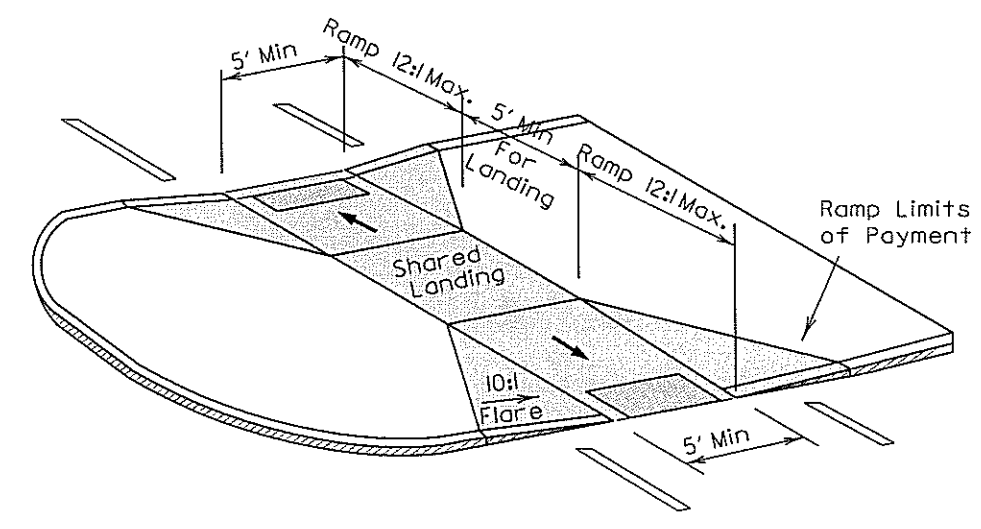
5/14/09  
 20-OCT-2011 14:24  
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 Jhowerton  
 10/25/11



**LARGE ISLAND CURB RAMPS**



**SMALL ISLAND WITH CUT THROUGH**

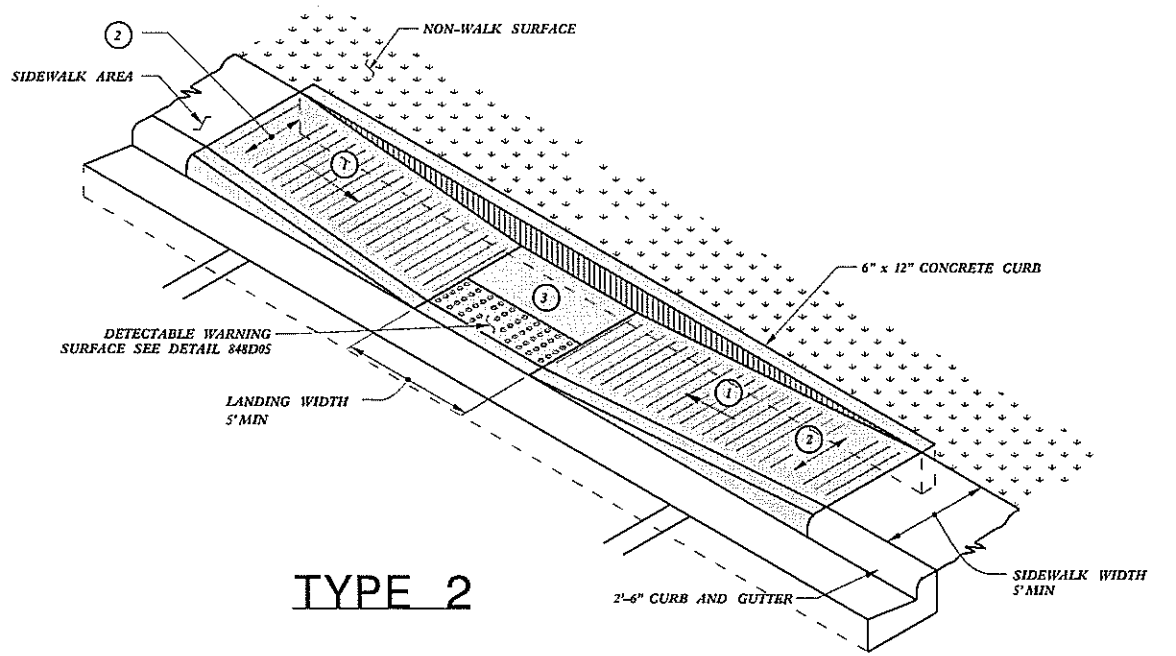


**MEDIAN ISLAND CURB RAMPS**

-SEE ROADWAY DETAIL DRAWING 848D05 FOR DETECTABLE WARNING SURFACE AND FOR RAMP NOTES.  
 -SEE ROADWAY STANDARD DRAWING 852.01 FOR CONCRETE ISLAND DIMENSIONS.

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b> Office 919-707-6950 FAX 919-250-4119	
<b>CURB RAMPS</b> Median or Turn Lane Islands	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dgn	

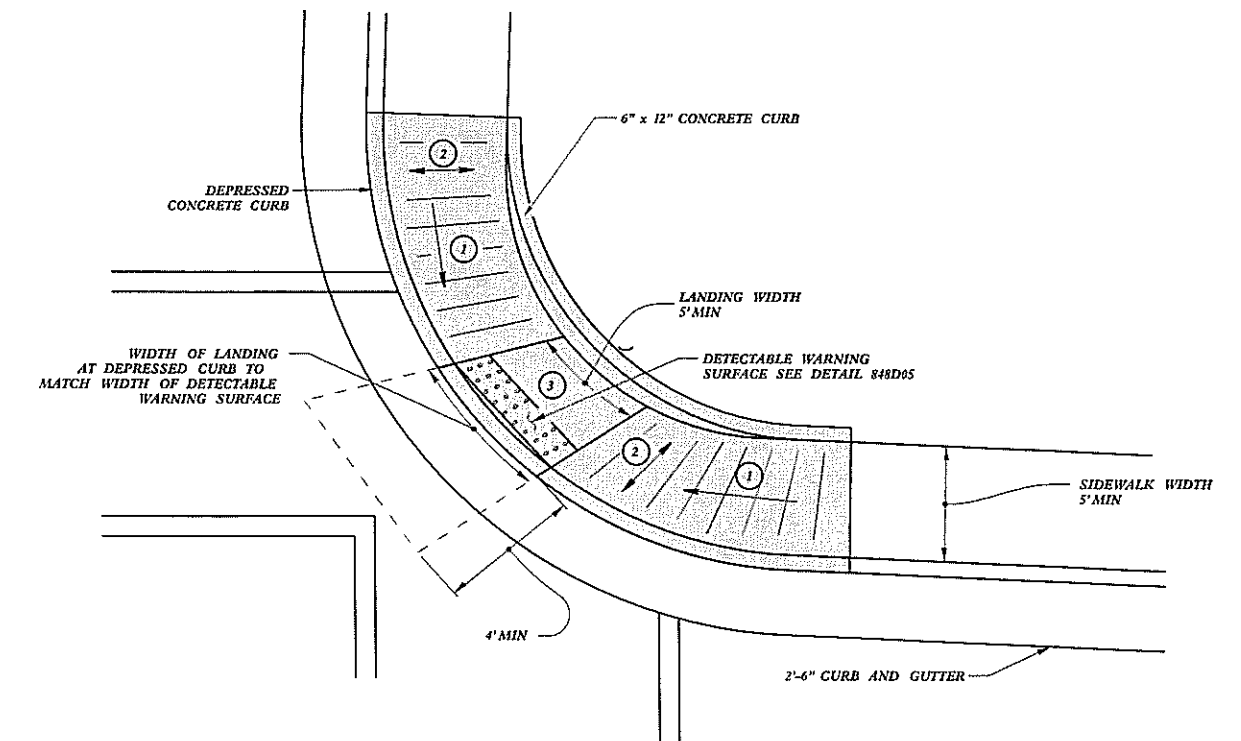
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 J:\user\on



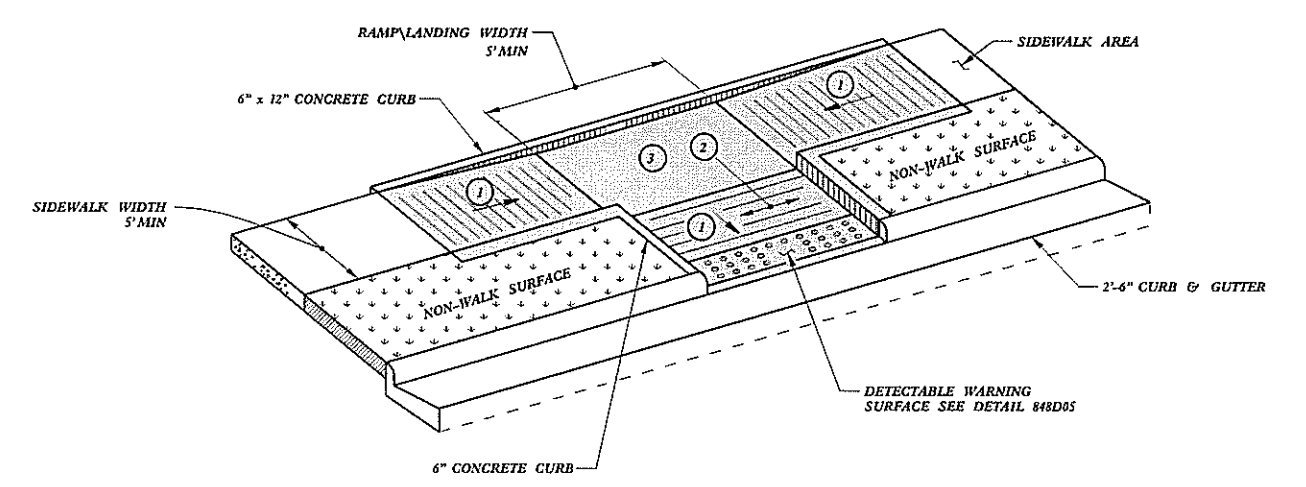
**TYPE 2**

**PAY LIMITS FOR CURB RAMP**

- ① 8.33% (12:1) MAX RAMP SLOPE
- ② CROSS SLOPE: 2.00%
- ③ CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



**TYPE 2A**

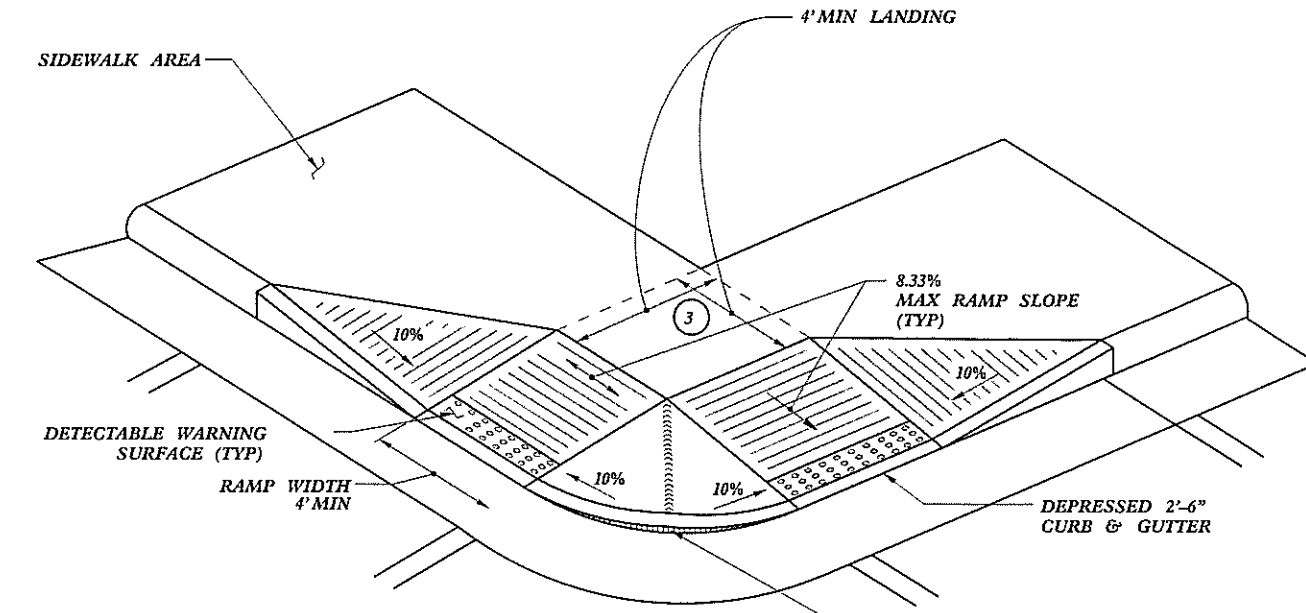


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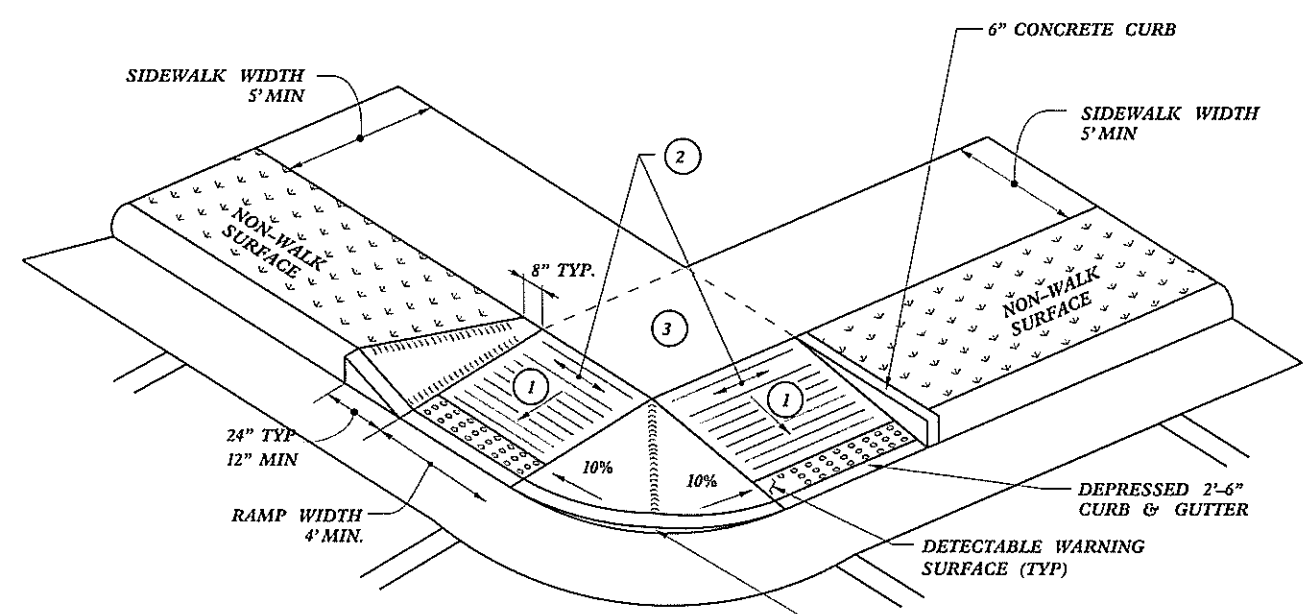
REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b> Office 919-707-6950 FAX 919-250-4119	
<b>CURB RAMPS</b> Parallel Ramps	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY: _____	DATE: _____
CHECKED BY: _____	DATE: _____
FILE SPEC: sds/2012CurbRamp/CurbRampDetails.dgn	

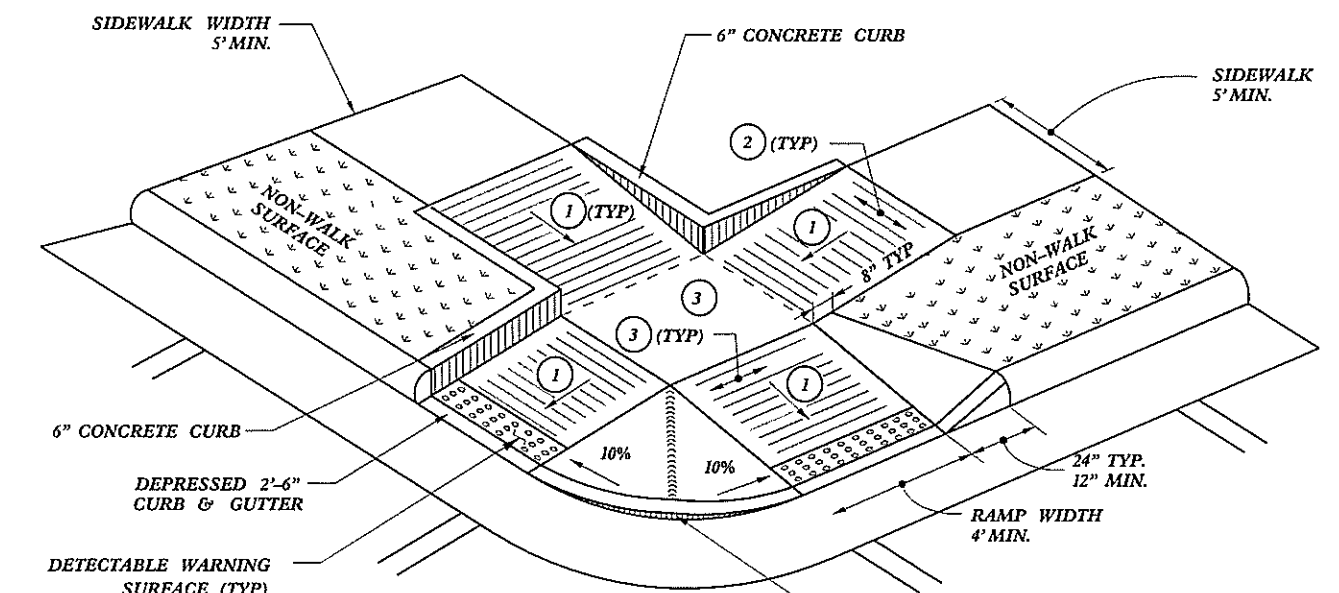




**TYPE 4**



**TYPE 4A**



**TYPE 5**

PAY LIMITS FOR CURB RAMP

- ① 8.33% (12:1) MAX RAMP SLOPE
- ② CROSS SLOPE: 2.00%
- ③ CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950 FAX 919-250-4119	
<b>CURB RAMPS</b>	
Shared Landing	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY: _____	DATE: _____
CHECKED BY: _____	DATE: _____
FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dwg	

REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

16-SEP-2011 15:06:53: C:\Users\jhowerton\Documents\Standard Drawings\2012 Curb Ramp Special Details\Curb Ramp Details.dwg  
 jhowerton

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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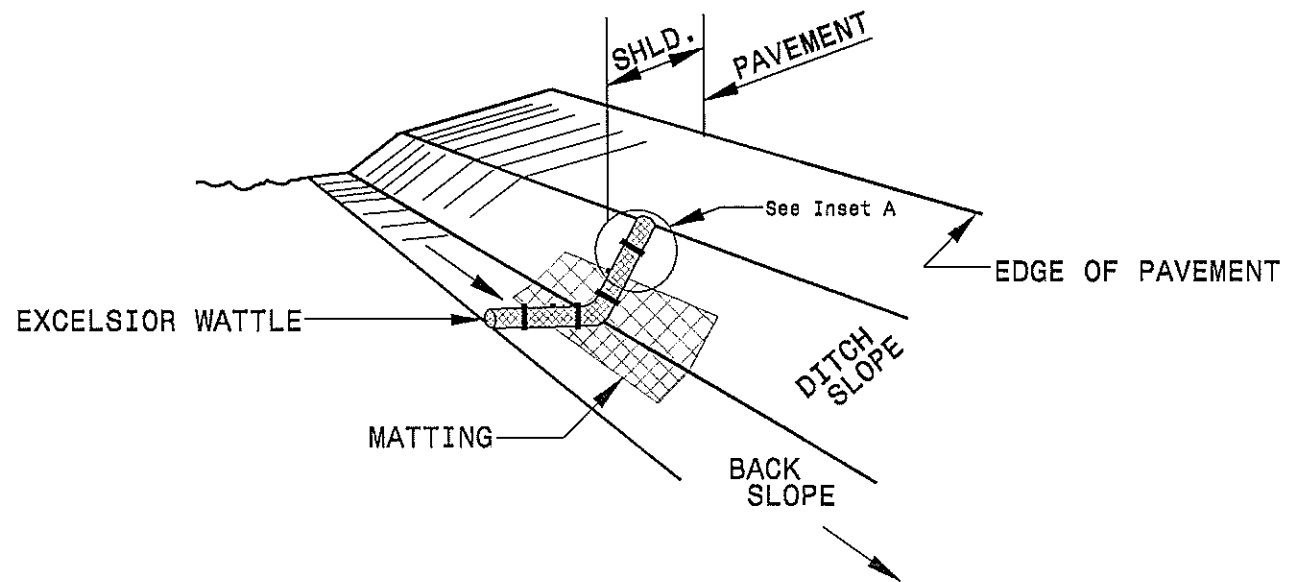


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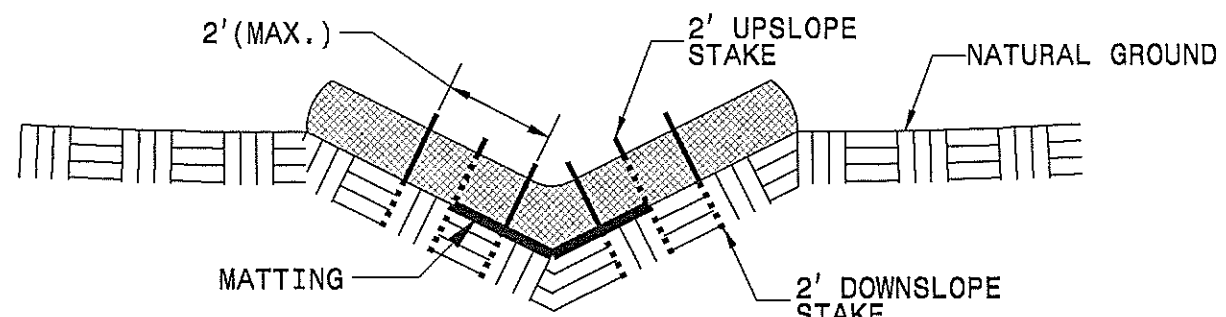
## ***SOIL STABILIZATION TIMEFRAMES***

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.

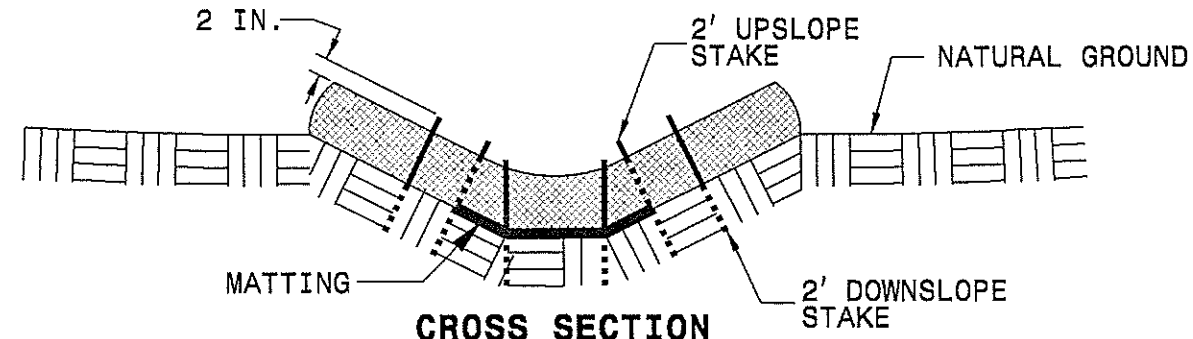
# WATTLE DETAIL



**ISOMETRIC VIEW**



**CROSS SECTION VEE DITCH**



**CROSS SECTION TRAPEZOIDAL DITCH**

**NOTES:**

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

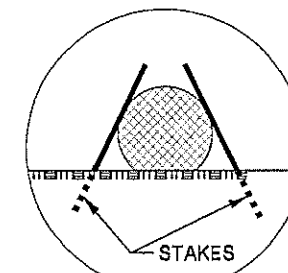
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

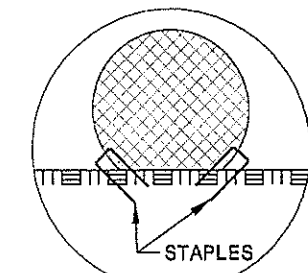
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

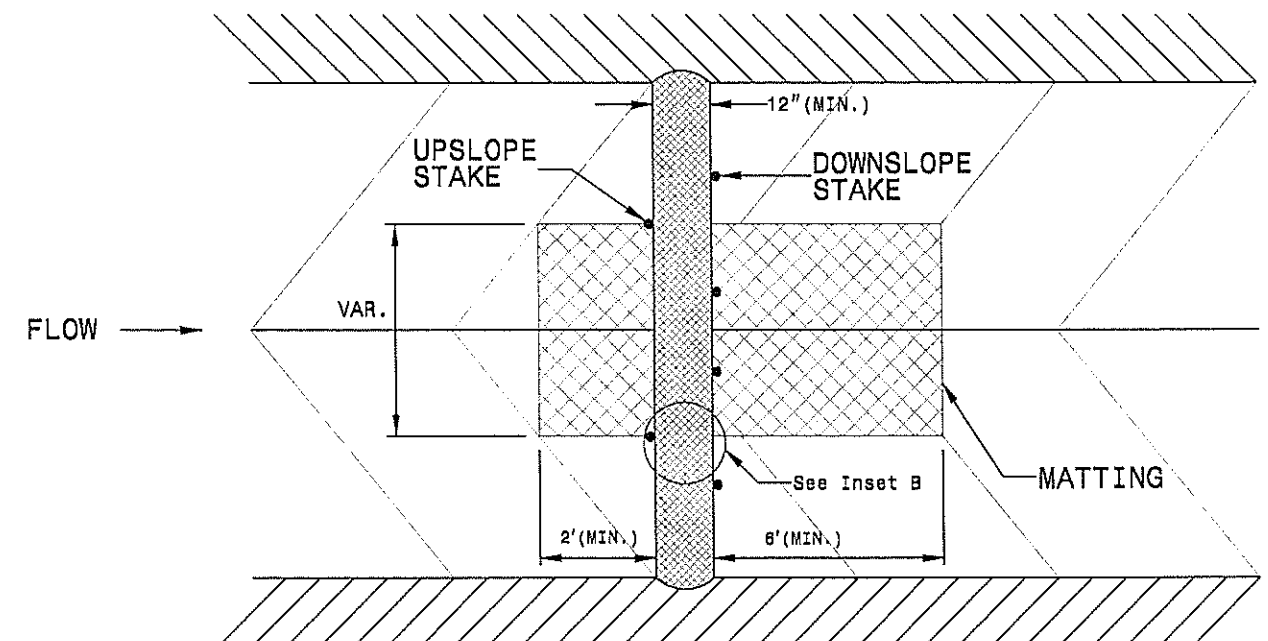
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A

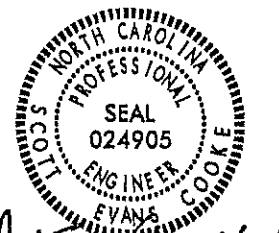


INSET B



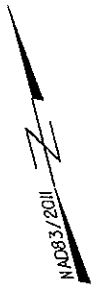
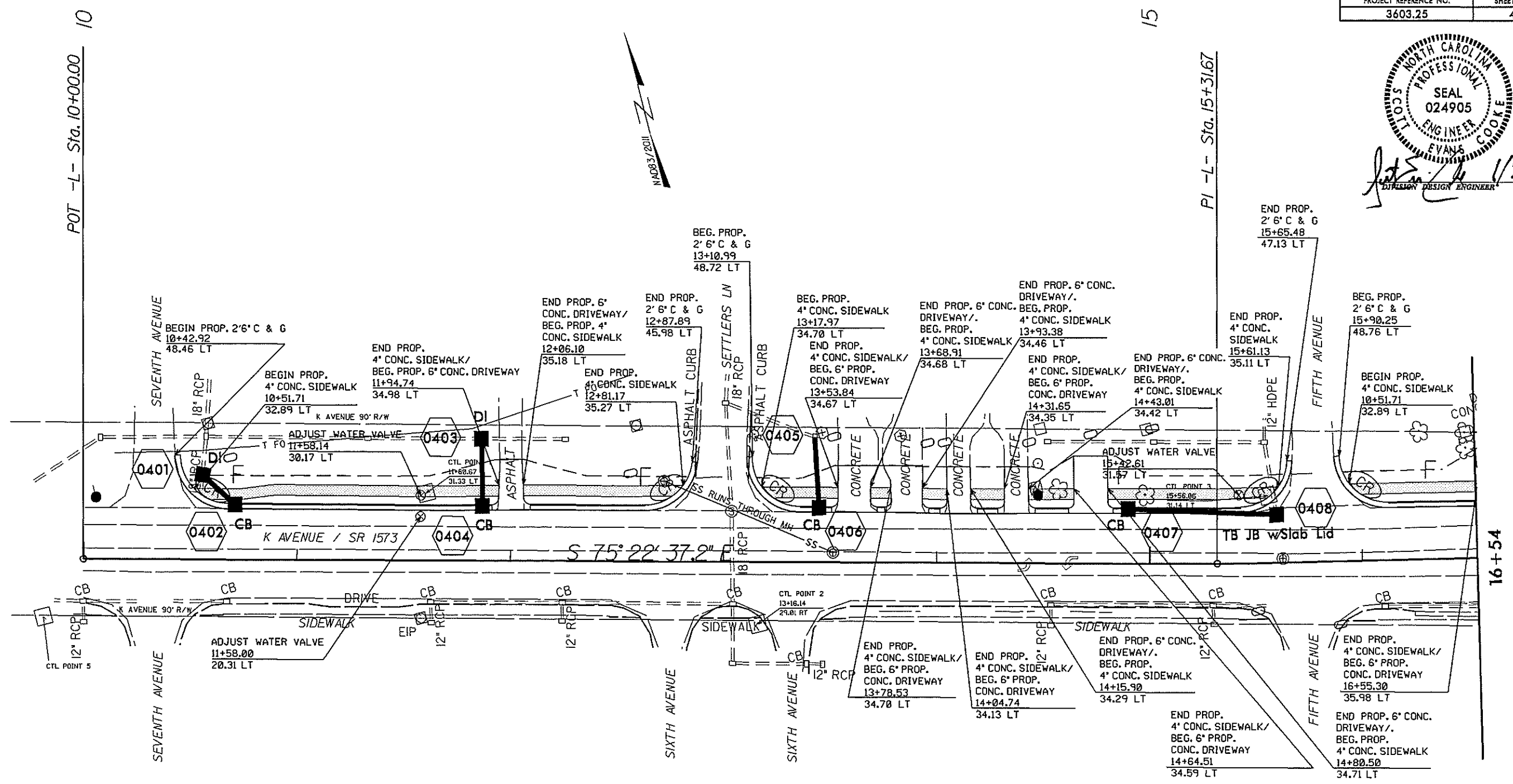
**TOP VIEW**

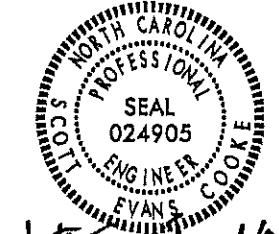




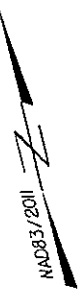
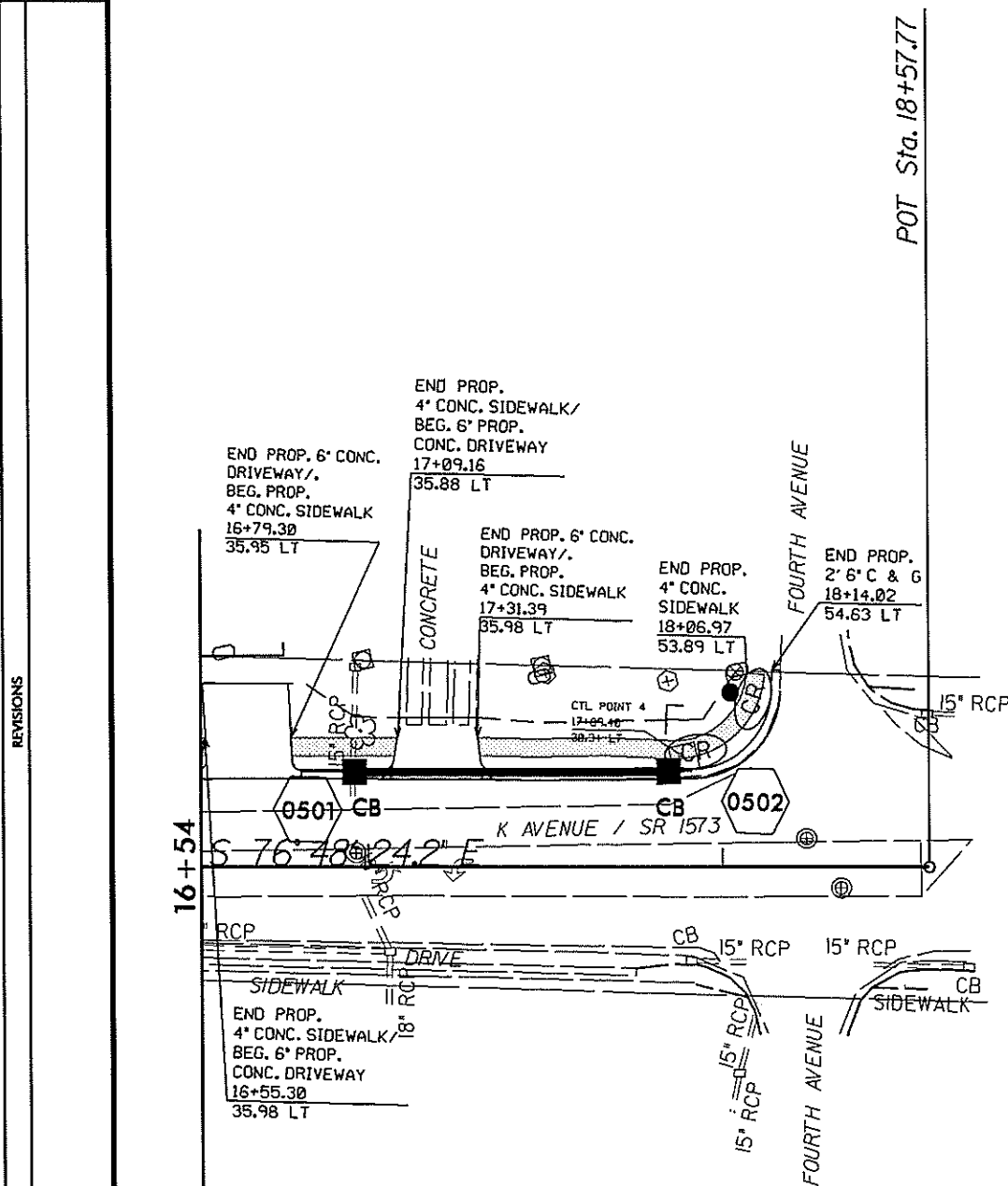
*Scott L. Cook*  
 DIVISION DESIGN ENGINEER

8/17/99  
 REVISIONS  
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 10





*Scott Evans Cook* 1/2/04  
DIVISION DESIGN ENGINEER



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REVISIONS

8/17/99  
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# PAVEMENT MARKING SHEET LAYOUT



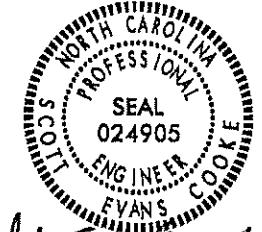
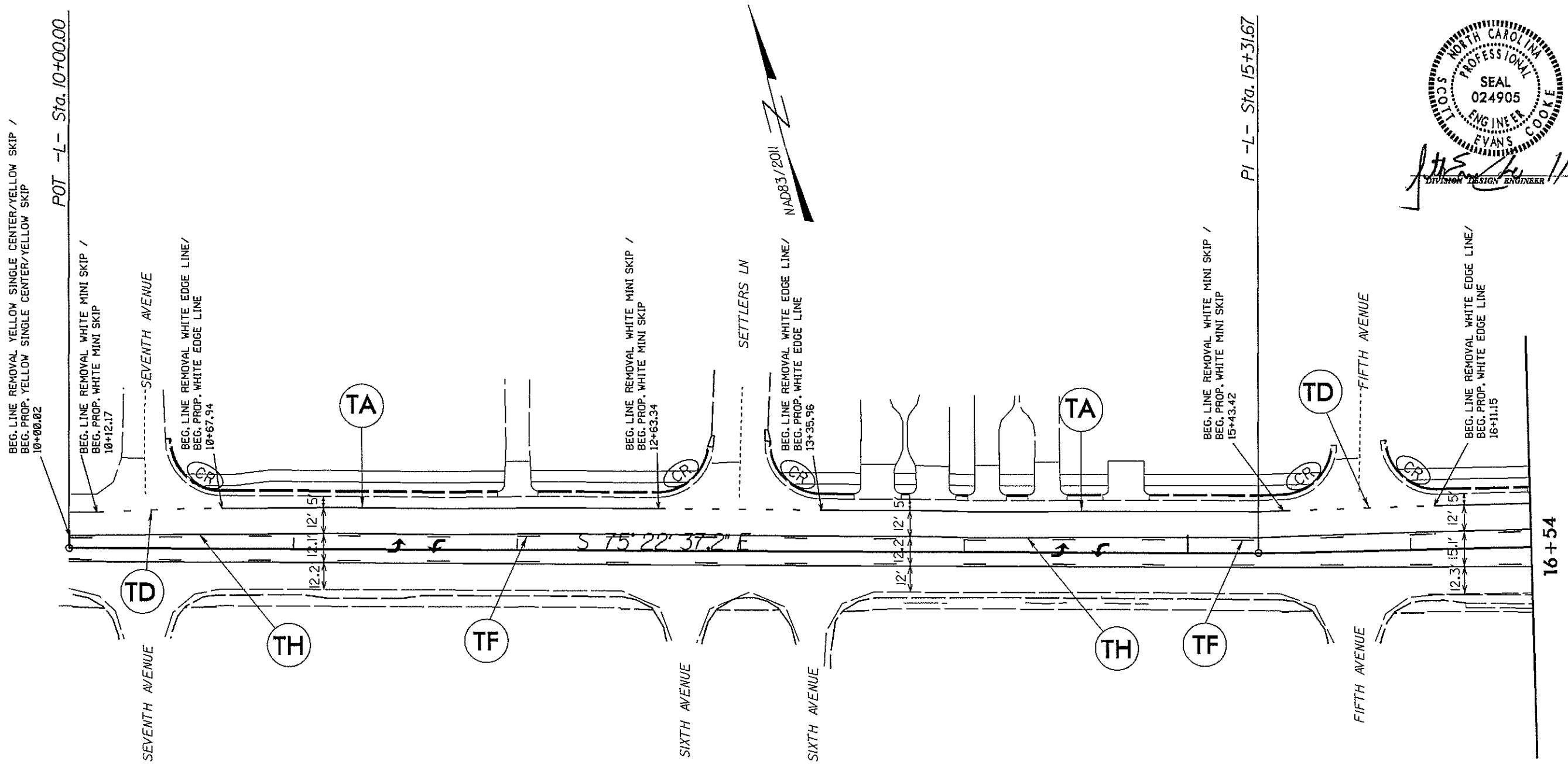
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**NOT TO SCALE**

**K AVENUE**  
**NEW HANOVER COUNTY**  
**-L- SR 1573**

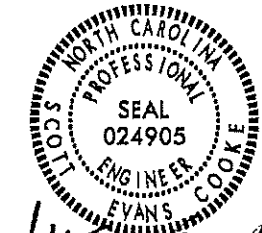
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 11/2/14

PAVEMENT MARKING LEGEND	
TA	= WHITE EDGELINE (4", 90 MIL)
TD	= WHITE MINI-SKIP 3 FT. - 9' / SP (4", 120 MIL)
TF	= 10 FT. YELLOW SKIP (4", 120 MIL)
TH	= YELLOW SINGLE CENTER (4", 120 MIL)

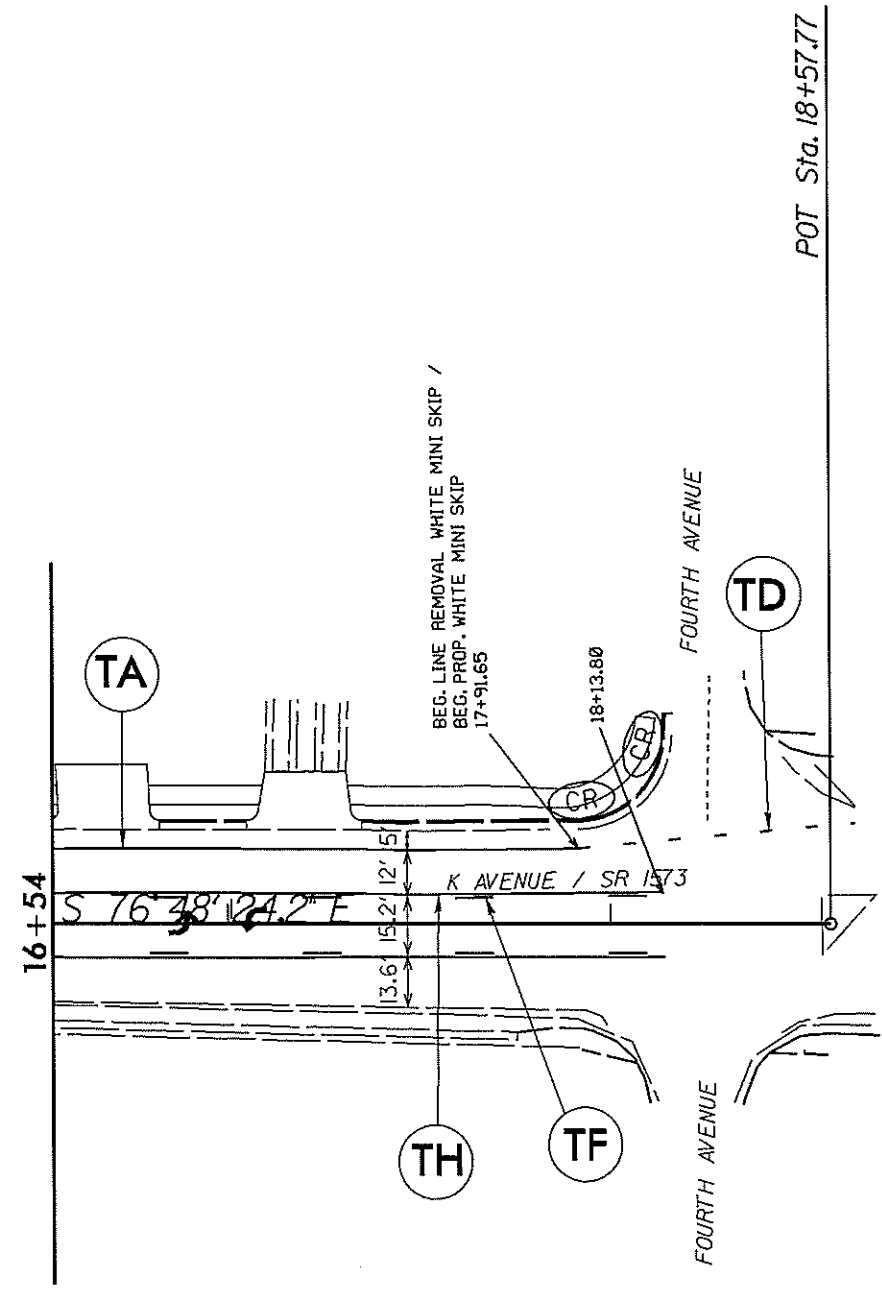


*Scott S. Evans*  
 DIVISION DESIGN ENGINEER 11/2/14





*Scott Evans Cooke*  
DIVISION DESIGN ENGINEER 1/2/14



PAVEMENT MARKING LEGEND	
TA	= WHITE EDGELINE (4", 90 MIL)
TD	= WHITE MINI-SKIP 3 FT. - 9"/SP (4", 120 MIL)
TF	= 10 FT. YELLOW SKIP (4", 120 MIL)
TH	= YELLOW SINGLE CENTER (4", 120 MIL)

REVISIONS

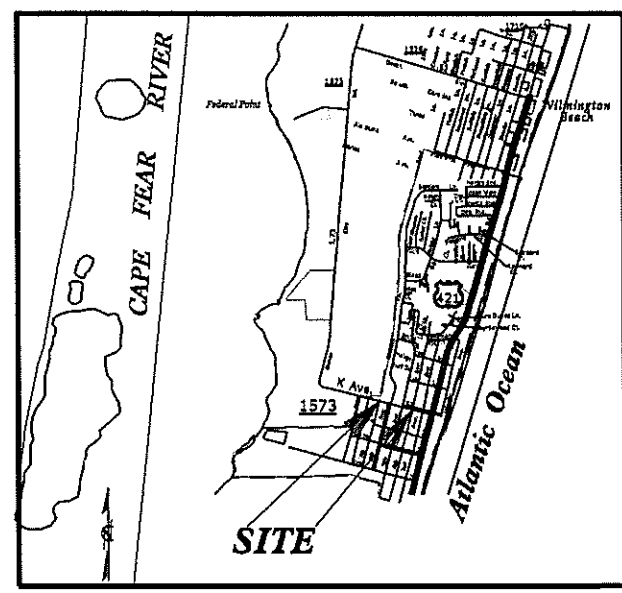
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 scott.evans@ncdot.gov

09/18/2013

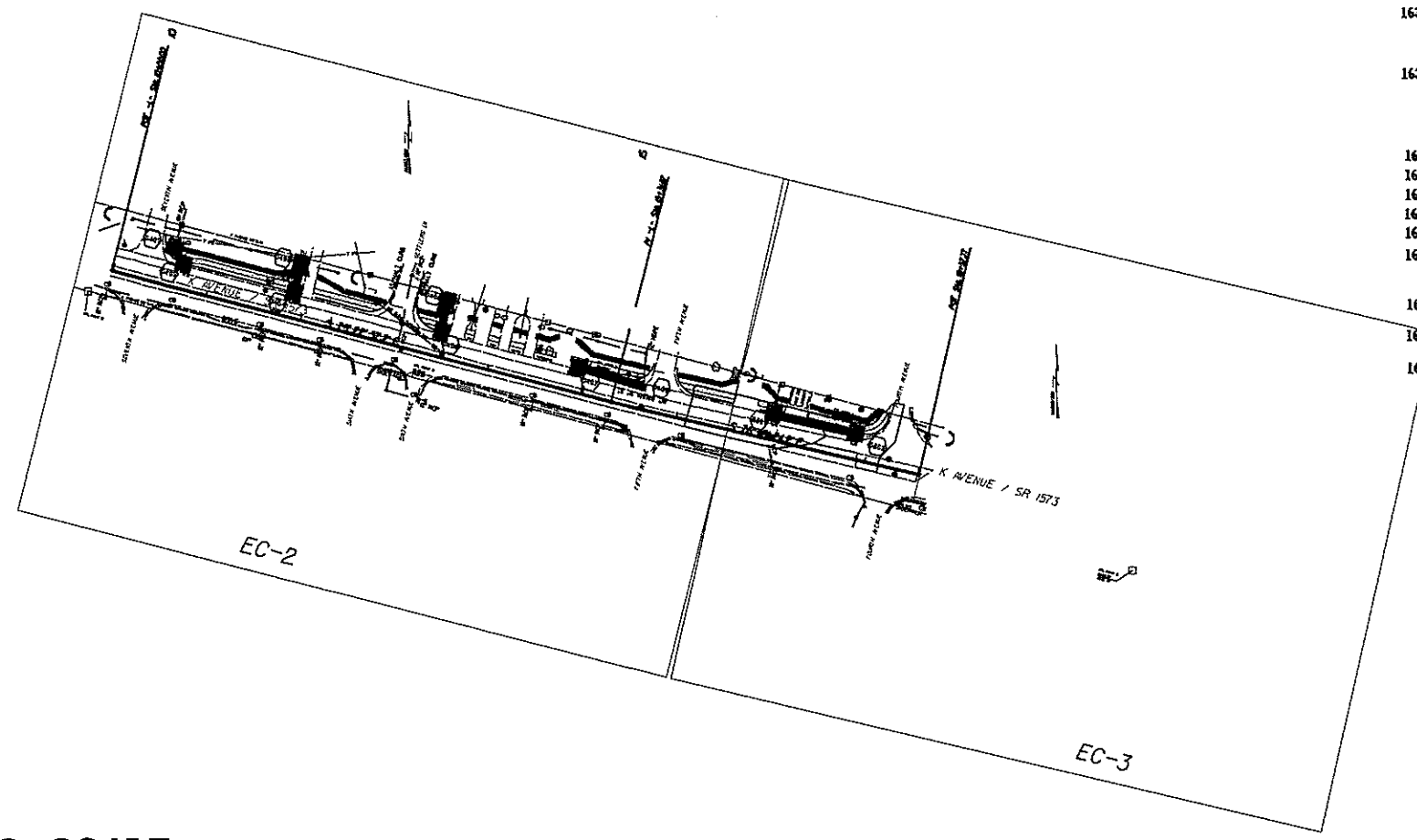
**COUNTY: NEW HANOVER PROJECT: 3603.3.25**

# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS PLAN FOR PROPOSED HIGHWAY EROSION CONTROL

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	3603.3.25	EC-1	3
STATE PROGRAM	F.A. PROGRAM	DESCRIPTION	
	3603.3.25		



See Sheet 1-A For Index of Sheets



### EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
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	--- --- ---
1630.02	Silt Basin Type B	--- ---
1633.01	Temporary Rock Silt Check Type-A	--- ---
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	--- ---
1633.02	Temporary Rock Silt Check Type-B	--- ---
	Wattle / Coir Fiber Wattle	--- ---
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	--- ---
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	--- ---
1630.04	Stilling Basin	--- ---
1630.06	Special Stilling Basin	--- ---
	Rock Inlet Sediment Trap	--- ---
1632.01	Type A	--- ---
1632.02	Type B	--- ---
1632.03	Type C	--- ---
	Skimmer Basin	--- ---
	Tiered Skimmer Basin	--- ---
	Infiltration Basin	--- ---
	Safety Fence	--- ---

**NOT TO SCALE**

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

**SEEDING REQUIREMENTS:**  
"Slopes left exposed will, within 14 calendar days of completion of any phase of grading, be planted or otherwise provided with temporary or permanent ground cover, devices, or structures sufficient to restrain erosion."

**GRAPHIC SCALE**

30 0 60

PLANS

SIGNATURE: \_\_\_\_\_ P.E.

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

For Reference Please Visit Roadside Environmental <http://www.ncdot.gov/roadsideenvironmental>

**DIVISION 3 DDC UNIT**  
5501 Barbados Blvd.  
Castle Hayne, NC 28429  
By: Carla Schoonmaker, No. 198

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2012 STANDARD SPECIFICATIONS

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FEBRUARY 6, 2014  
**LETTING DATE:**

CMS  
PROJECT DESIGN TECHNICIAN

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Silt Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1640.01 Coir Fiber Baffle
1631.01 Matting Installation	1645.01 Temporary Stream Crossing

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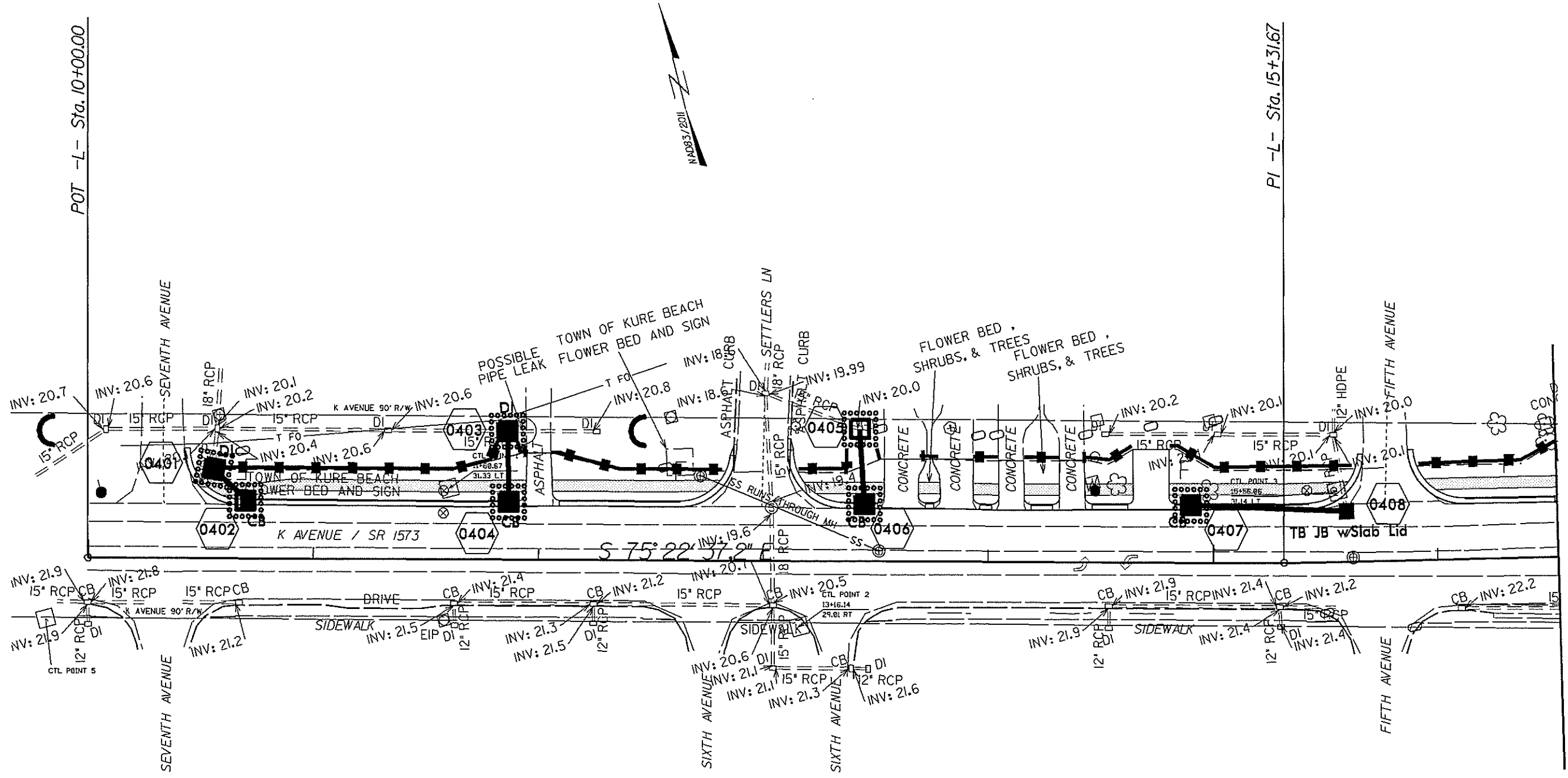
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16+54

REVISIONS

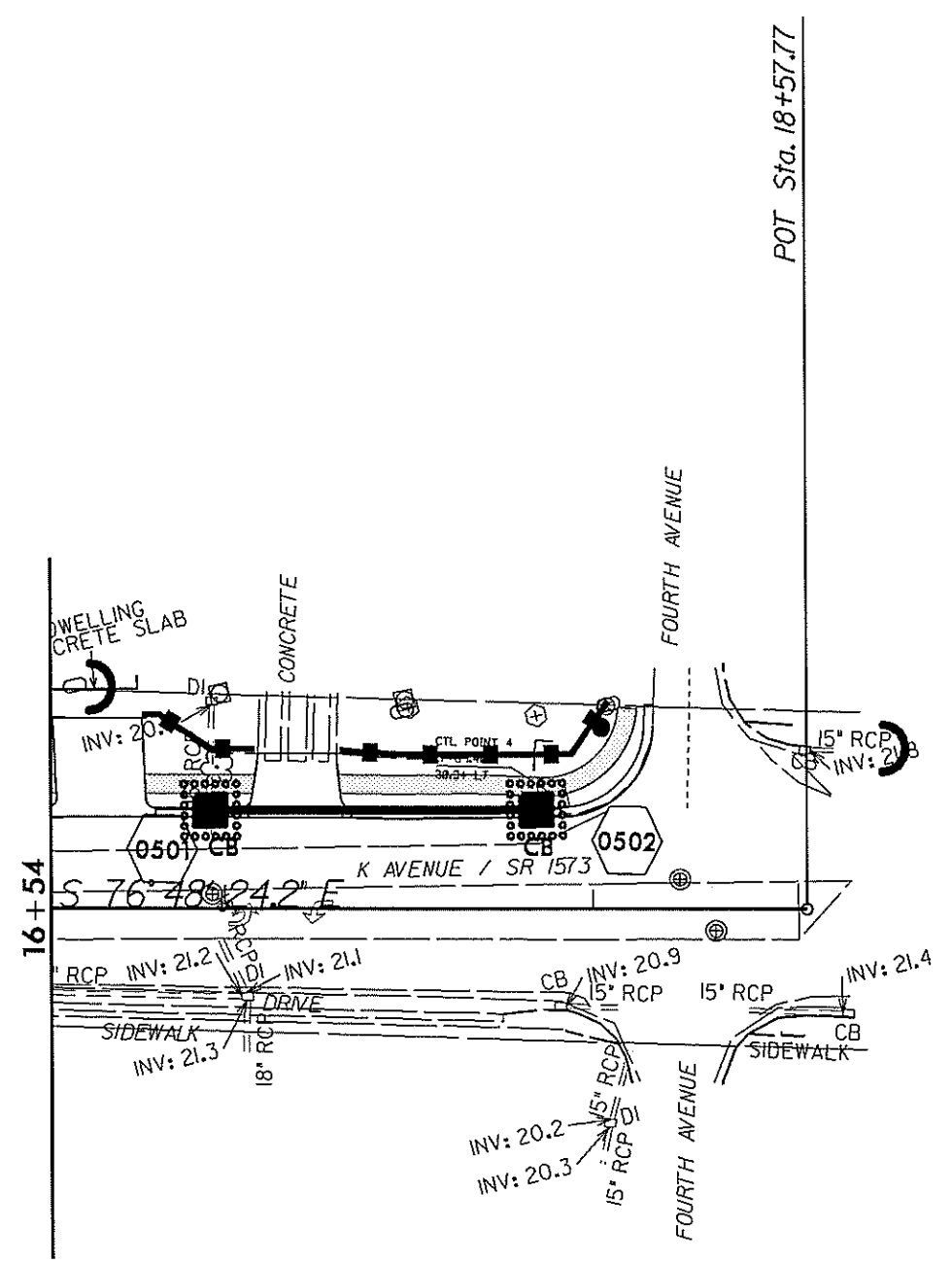
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8/17/99

REVISIONS

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