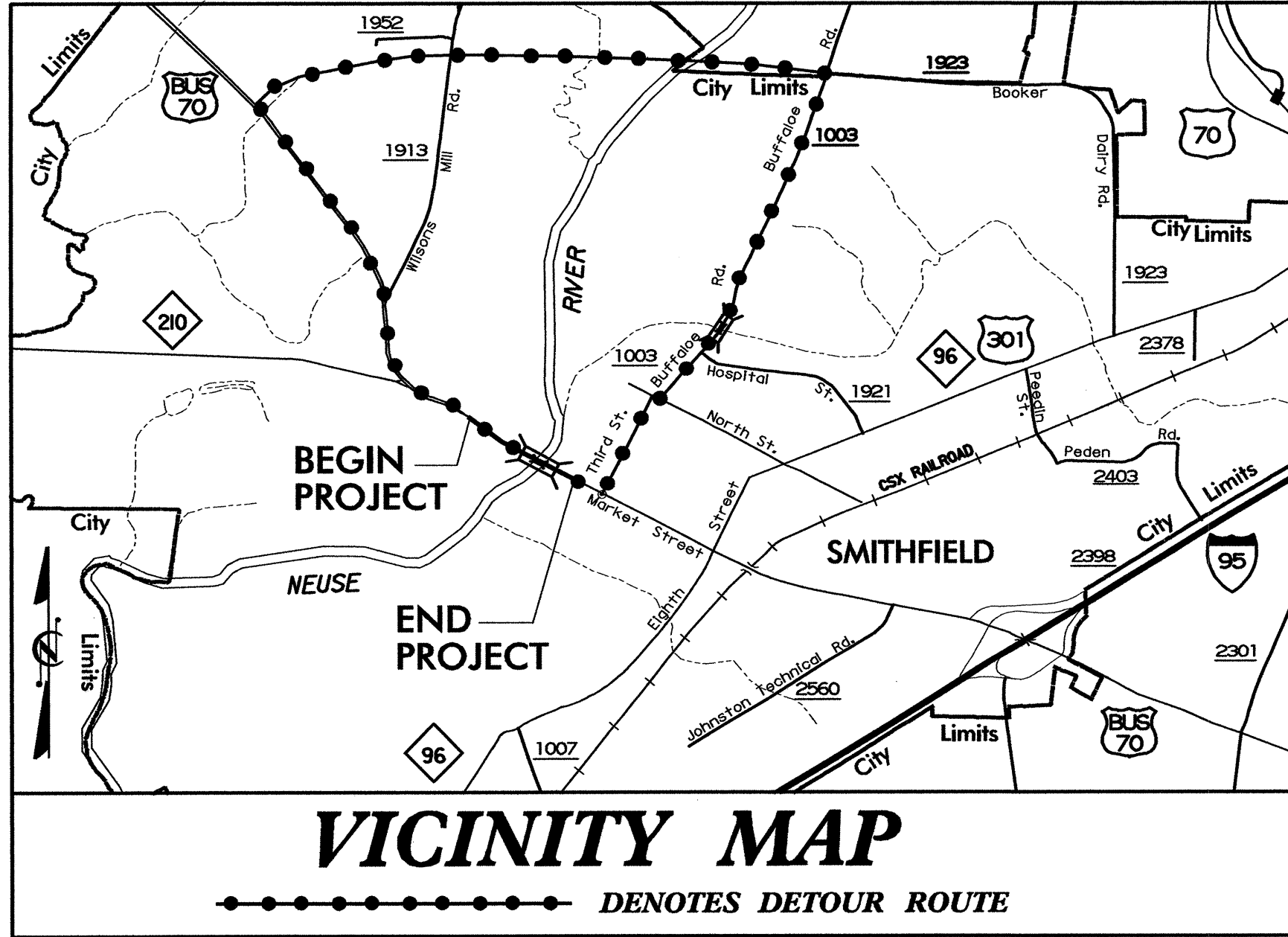


09/08/99

**CONTRACT: C202783**  
**TIP PROJECT: B-3864**

See Sheet 1-A For Index of Sheets  
See Sheet 1-B For Conventional Symbols



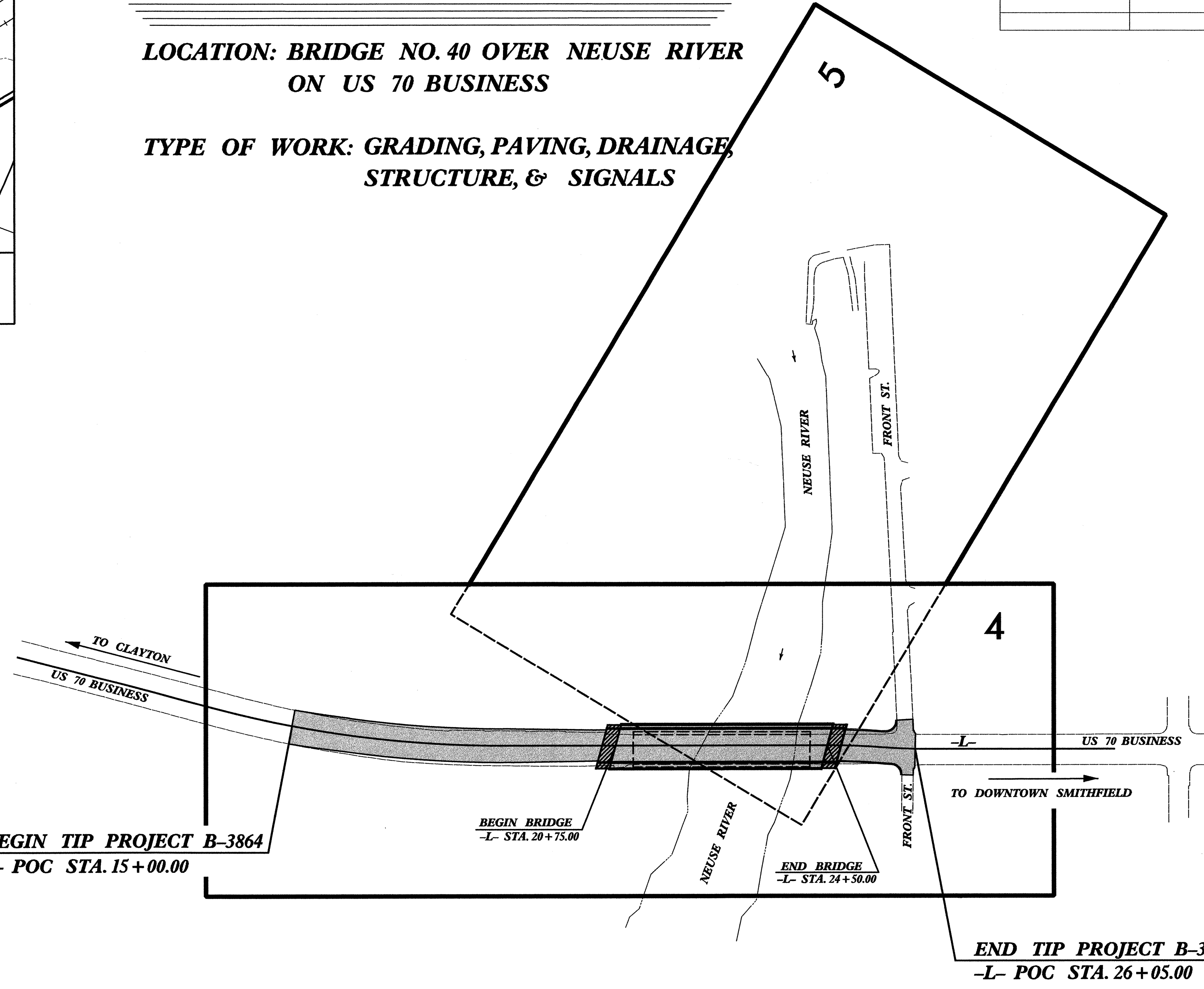
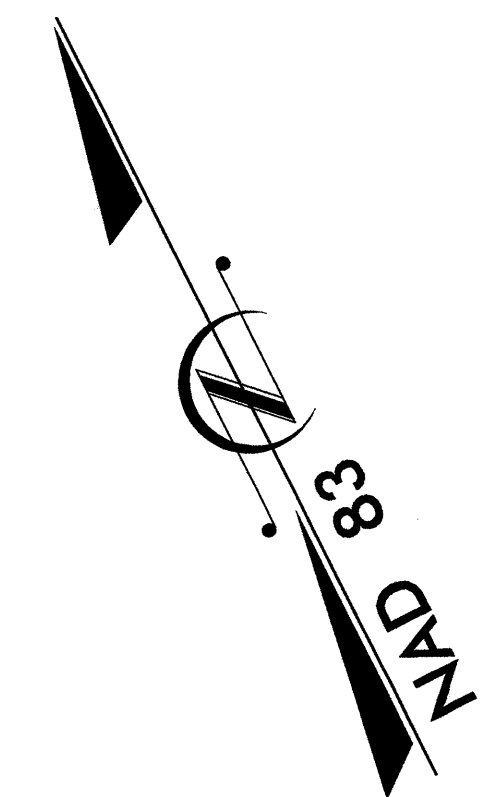
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**JOHNSTON COUNTY**

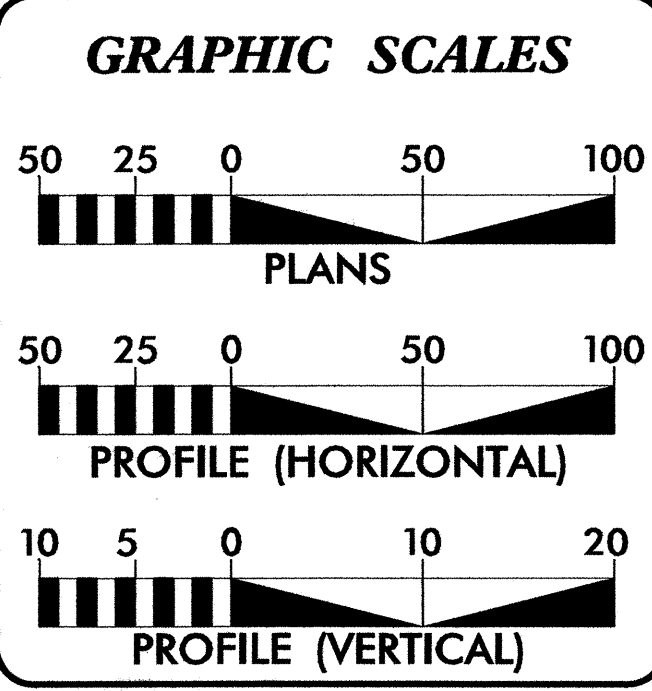
**LOCATION: BRIDGE NO. 40 OVER NEUSE RIVER  
ON US 70 BUSINESS**

**TYPE OF WORK: GRADING, PAVING, DRAINAGE,  
STRUCTURE, & SIGNALS**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3864	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33310.1.1	BRSTP-70B(3)	P.E.	
33310.2.1	BRSTP-70B(3)	R/W & UTIL	
33310.3.1	BRSTP-70B(3)	CONST	



NCDOT CONTACT: BRENDA L. MOORE, P.E.  
ROADWAY DESIGN - ENGINEERING COORDINATION



**DESIGN DATA**

ADT 2012 =	27,400
ADT 2032 =	43,100
DHV =	10 %
D =	55 %
T =	3 % *
V =	50 MPH

\*( TTST 1% + DUAL 2% )  
 REGIONAL TIER  
 FUNC. CLASS =  
 PRINCIPAL ARTERIAL

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT B-3864	=	0.138 MI.
LENGTH STRUCTURES TIP PROJECT B-3864	=	0.071 MI.
TOTAL LENGTH OF TIP PROJECT B-3864	=	0.209 MI.

Prepared in the Office of:  
**Florence & Hutcheson**  
 CONSULTING ENGINEERS  
 5123 Kingston Way, Suite 100 Raleigh, NC 27607  
 NC License No. P-0258

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 2012 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
FEBRUARY 18, 2011

**LETTING DATE:**  
FEBRUARY 21, 2012

**DAVID C. WALLER, P.E.**  
PROJECT ENGINEER

**MICHAEL A. YOUNG, P.E.**  
PROJECT DESIGN ENGINEER

**HYDRAULICS ENGINEER**

*David C. Waller*  
SIGNATURE: 11-29-11

**ROADWAY DESIGN ENGINEER**

*David C. Waller*  
SIGNATURE: 11-29-11

SEAL 24451  
 SEAL 22606

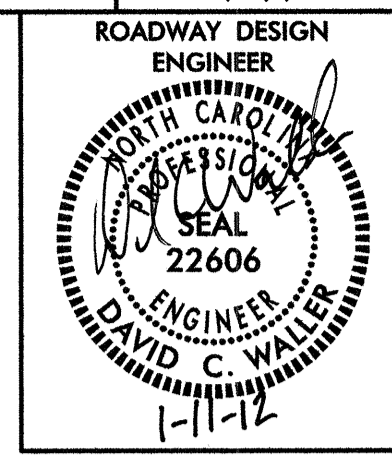
**DIVISION OF HIGHWAYS**  
STATE OF NORTH CAROLINA

STATE HIGHWAY DESIGN ENGINEER

11/28/2011  
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 Florence & Hutcheson, Inc.

8/17/99

K:\2012\Roadway\Proj\B3864\_rdy\_sheets\dgn



INDEX OF SHEETS

SHEET NUMBER	DESCRIPTION
1	Title Sheet
1-A	Index of Sheets, General Notes, List of Standards
1-B	Conventional Symbols
1-C thru 1-D	Survey Control Sheets
2 thru 2-A	Typical Sections and Pavement Schedule
2-B	Detail of 2'-6" Curb and Gutter Transition
2-C	Detail of Aluminum Ornamental Fence
3	Summary of Quantities
3-A	Drainage Summary Sheet
3-B	Summary of Earthwork, Guardrail and Pavement Removal Plan Sheets
4 thru 5	Plan Sheets
TMP-1 thru TMP-8	Traffic Management Plans
SD-1	Special Sign Design Detail
PMP-1 thru PMP-3	Pavement Marking Plans
EC-1 thru EC-5	Erosion Control Plans
RF-1	Reforestation Plan
SIGN-1 thru SIGN-3	Signaling Plans
SIG-1 thru SIG-9	Signal Plans
UD-1 thru UD-4	Utility Plans by Others
X-1	Cross-Section Summary
X-2 thru X-9	Cross-Sections
S-1 thru S-42	Structure Plans

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	
200.03	Method of Clearing - Method III
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 4 - MAJOR STRUCTURES	
422.10	Reinforced Bridge Approach Fills
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.02	Method of Shoulder Construction - High Side of Superelevated Curve - Method II
DIVISION 8 - INCIDENTALS	
815.03	Pipe Underdrain and Blind Drain
840.00	Concrete Base Pad for Drainage Structures
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
840.18	Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.19	Concrete Grated Drop Inlet Type 'D' - 12" thru 36" Pipe
840.24	Frames and Narrow Slot Sag Grates
840.25	Anchorage for Frames - Brick or Concrete
840.27	Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.28	Brick Grated Drop Inlet Type 'D' - 12" thru 36" Pipe
840.29	Frames and Narrow Slot Flat Grates
840.31	Concrete Junction Box - 12" thru 66" Pipe
840.32	Brick Junction Box - 12" thru 66" Pipe
840.54	Manhole Frame and Cover
840.66	Drainage Structure Steps
846.01	Concrete Curb, Gutter and Curb & Gutter
846.04	Drop Inlet Installation in Shoulder Berm Gutter
848.01	Concrete Sidewalk
848.04	Street Turnout
848.05	Curb Ramp - Proposed Curb & Gutter
862.01	Guardrail Placement
862.02	Guardrail Installation
862.03	Structure Anchor Units

GENERAL NOTES: 2012 SPECIFICATIONS  
EFFECTIVE: 01-17-12  
REVISED: 08/31/11

GRADING AND SURFACING OR RESURFACING AND WIDENING:  
THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED 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 III.

SUPERELEVATION:  
ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:  
ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.02.

SIDE ROADS:  
THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

UNDERDRAINS:  
UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.03 AT LOCATIONS DIRECTED BY THE ENGINEER.

DRIVEWAYS:  
STREET TURNOUT:  
STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADIUS NOTED ON PLANS.

GUARDRAIL:  
THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

TEMPORARY SHORING:  
SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.

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

END BENTS:  
THE ENGINEER SHALL CHECK THE STRUCTURE END BENT PLANS, DETAILS, AND CROSS-SECTION PRIOR TO SETTING OF THE SLOPE STAKES FOR THE EMBANKMENT OR EXCAVATION APPROACHING A BRIDGE.

UTILITIES:  
UTILITY OWNERS ON THIS PROJECT ARE TOWN OF SMITHFIELD, CENTURY LINK, TIME WARNER, BTI, & JOHNSTON COUNTY. ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

RIGHT-OF-WAY MARKERS:  
ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

Curb Ramps:  
CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS.

Note: Not to Scale

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

# CONVENTIONAL PLAN SHEET SYMBOLS

### BOUNDARIES AND PROPERTY:

State Line	_____
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	_____ EP
Property Corner	_____ X
Property Monument	_____ ECM
Parcel/Sequence Number	_____ (23)
Existing Fence Line	_____ -x-x-x-
Proposed Woven Wire Fence	_____ ○
Proposed Chain Link Fence	_____ □
Proposed Barbed Wire Fence	_____ ◇
Existing Wetland Boundary	_____ WLB
Proposed Wetland Boundary	_____ WLB
Existing Endangered Animal Boundary	_____ EAB
Existing Endangered Plant Boundary	_____ EPB
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	_____ W
Small Mine	_____ X
Foundation	_____ □
Area Outline	_____ □
Cemetery	_____ ⊕
Building	_____ □
School	_____ □
Church	_____ ⊕
Dam	_____ ▽

### HYDROLOGY:

Stream or Body of Water	_____
Hydro, Pool or Reservoir	_____ □
Jurisdictional Stream	_____ JS
Buffer Zone 1	_____ BZ 1
Buffer Zone 2	_____ BZ 2
Flow Arrow	_____ ←
Disappearing Stream	_____ >
Spring	_____ ○
Wetland	_____ ↓
Proposed Lateral, Tail, Head Ditch	_____ FLM
False Sump	_____ ▽

### RAILROADS:

Standard Gauge	_____
RR Signal Milepost	_____ MILEPOST 35
Switch	_____ SWITCH
RR Abandoned	_____
RR Dismantled	_____

### RIGHT OF WAY:

Baseline Control Point	_____ ◆
Existing Right of Way Marker	_____ △
Existing Right of Way Line	_____ R/W
Proposed Right of Way Line	_____ R/W
Proposed Right of Way Line with Iron Pin and Cap Marker	_____ R/W ▲
Proposed Right of Way Line with Concrete or Granite Marker	_____ R/W ●
Existing Control of Access	_____ ⓐ
Proposed Control of Access	_____ ⓐ
Existing Easement Line	_____ E
Proposed Temporary Construction Easement	_____ E
Proposed Temporary Drainage Easement	_____ TDE
Proposed Permanent Drainage Easement	_____ PDE
Proposed Permanent Drainage / Utility Easement	_____ DUE
Proposed Permanent Utility Easement	_____ PUE
Proposed Temporary Utility Easement	_____ TUE
Proposed Aerial Utility Easement	_____ AUE
Proposed Permanent Easement with Iron Pin and Cap Marker	_____ ◆

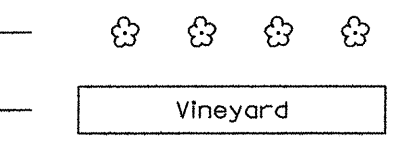
### ROADS AND RELATED FEATURES:

Existing Edge of Pavement	_____
Existing Curb	_____
Proposed Slope Stakes Cut	_____ C
Proposed Slope Stakes Fill	_____ F
Proposed Curb Ramp	_____ CR
Existing Metal Guardrail	_____ T T T
Proposed Guardrail	_____ T T T
Existing Cable Guiderail	_____ □ □ □
Proposed Cable Guiderail	_____ □ □ □
Equality Symbol	_____ ⊕
Pavement Removal	_____ X X X

### VEGETATION:

Single Tree	_____ ☁
Single Shrub	_____ *
Hedge	_____ ~~~~~
Woods Line	_____ ~~~~~

Orchard \_\_\_\_\_  
Vineyard \_\_\_\_\_



### EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	_____ CONC
Bridge Wing Wall, Head Wall and End Wall	_____ CONC WW
MINOR:	
Head and End Wall	_____ CONC HW
Pipe Culvert	_____ —
Footbridge	_____ —
Drainage Box: Catch Basin, DI or JB	_____ CB
Paved Ditch Gutter	_____ —
Storm Sewer Manhole	_____ Ⓢ
Storm Sewer	_____ S

### 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	_____ P
Designated U/G Power Line (S.U.E.*)	_____ P

### 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	_____ T
Designated U/G Telephone Cable (S.U.E.*)	_____ T
Recorded U/G Telephone Conduit	_____ TC
Designated U/G Telephone Conduit (S.U.E.*)	_____ TC
Recorded U/G Fiber Optics Cable	_____ T FO
Designated U/G Fiber Optics Cable (S.U.E.*)	_____ T FO

### WATER:

Water Manhole	_____ Ⓟ
Water Meter	_____ ○
Water Valve	_____ ⊗
Water Hydrant	_____ Ⓟ
Recorded U/G Water Line	_____ W
Designated U/G Water Line (S.U.E.*)	_____ W
Above Ground Water Line	_____ A/G Water

### TV:

TV Satellite Dish	_____ ↖
TV Pedestal	_____ Ⓟ
TV Tower	_____ ⊗
U/G TV Cable Hand Hole	_____ —
Recorded U/G TV Cable	_____ TV
Designated U/G TV Cable (S.U.E.*)	_____ TV
Recorded U/G Fiber Optic Cable	_____ TV FO
Designated U/G Fiber Optic Cable (S.U.E.*)	_____ TV FO

### GAS:

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

### SANITARY SEWER:

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

### MISCELLANEOUS:

Utility Pole	_____ ●
Utility Pole with Base	_____ □
Utility Located Object	_____ ○
Utility Traffic Signal Box	_____ Ⓟ
Utility Unknown U/G Line	_____ ?UTL
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.

6/2/09

# SURVEY CONTROL SHEET B-3864

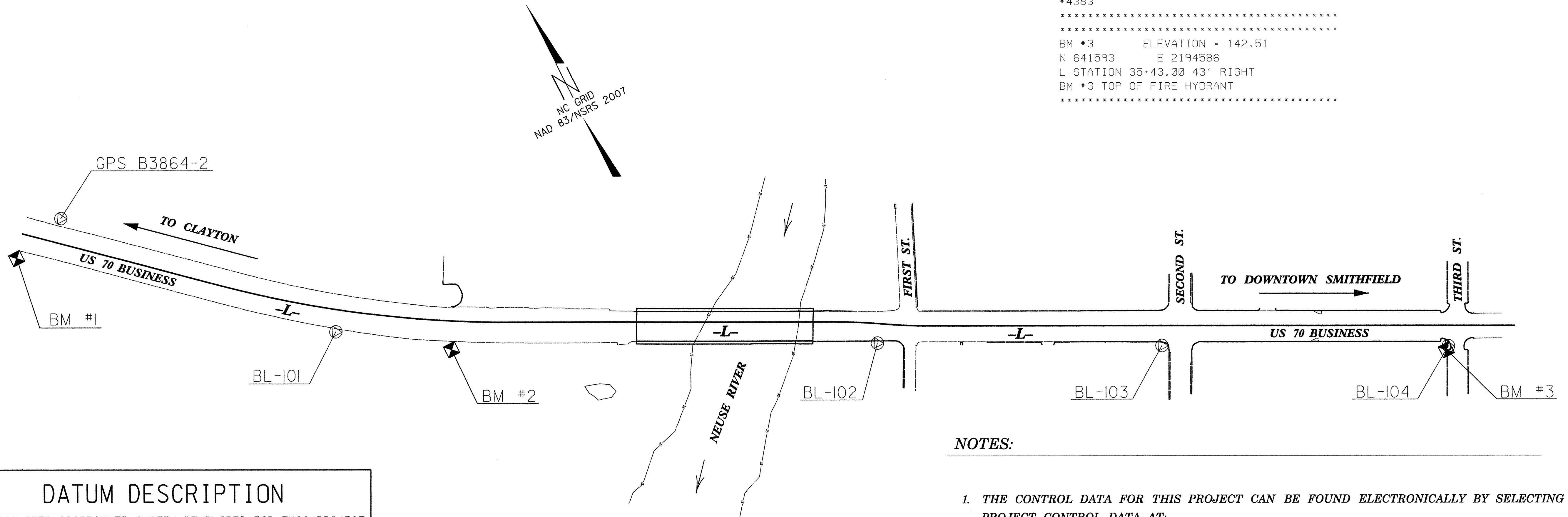
PROJECT REFERENCE NO.	SHEET NO.
B-3864	1C
Location and Surveys	

### BASELINE DATA

BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
2		GPS B3864-2	642906.7850	2192495.5980	125.75	10+58.39	43.19 LT
101		BL-101	642508.6680	2192841.1890	126.70	15+77.11	38.89 RT
102		BL-102	642057.9500	2193689.9670	137.65	25+35.87	34.25 RT
103		BL-103	641826.5130	2194138.5800	141.87	30+38.19	34.92 RT
104		BL-104	641597.1870	2194592.1200	139.26	35+46.41	35.78 RT

### SUPPLEMENTAL BENCHMARK DATA

\*\*\*\*\*  
 BM #1 ELEVATION = 125.80  
 N 642879 E 2192394  
 L STATION 10+00.00 45' RIGHT  
 BM #1 RR SPIKE IN BASE OF POWER POLE  
 #4380  
 \*\*\*\*\*  
 \*\*\*\*\*  
 BM #2 ELEVATION = 128.61  
 N 642388 E 2193011  
 L STATION 17+80.00 50' RIGHT  
 BM #2 RR SPIKE IN BASE OF POWER POLE  
 #4383  
 \*\*\*\*\*  
 \*\*\*\*\*  
 BM #3 ELEVATION = 142.51  
 N 641593 E 2194586  
 L STATION 35+43.00 43' RIGHT  
 BM #3 TOP OF FIRE HYDRANT  
 \*\*\*\*\*



### DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS B3864-2" WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF NORTHING: 642906.7851(ft) EASTING: 2192495.5986(ft) ELEVATION: 125.75(ft)  
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99988252  
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS B3864-2" TO -L- STATION 10+00.00 IS N 85°10'06" W 72.63'  
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES  
 VERTICAL DATUM USED IS NAVD 88

### NOTES:

- THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:  
[HTTP://WWW.NCDOT.ORG/DOH/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT/](http://www.ncdot.org/DOH/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT/)  
 THE FILES TO BE FOUND ARE AS FOLLOWS:  
 B-3864\_LS\_CONTROL\_101029.TXT  
 SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- ⊗ INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.  
 PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.  
 NETWORK ESTABLISHED FROM NGS ONLINE POSITIONING SERVICE (OPUS)

NOTE: DRAWING NOT TO SCALE

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 Florence & Hutchinson, Inc.

6/2/99

# SURVEY CONTROL SHEET B-3864

PROJECT REFERENCE NO.	SHEET NO.
B-3864	1D
Location and Surveys	
FINAL	

### EASEMENT POINTS

ALIGN	STATION	OFFSET	NORTH	EAST
L	15+19.00	105.00	642490.7636	2192753.5914
L	15+19.00	76.93	642513.1950	2192770.4698
L	15+29.00	77.07	642506.8608	2192778.7006
L	15+29.00	105.00	642484.4565	2192762.0173
L	17+25.00	79.76	642391.1706	2192946.2641
L	17+25.00	110.00	642365.2646	2192930.6627
L	19+65.48	-68.00	642407.0434	2193230.0805
L	20+28.00	-131.00	642435.1935	2193314.2574
L	20+43.00	-68.00	642372.1783	2193299.3214
L	20+44.00	112.00	642210.9595	2193219.2621
L	21+05.46	82.00	642210.1140	2193287.6469
L	21+22.00	-229.00	642480.4481	2193442.2887
L	21+30.00	-205.00	642455.4143	2193438.6403
L	21+32.00	-68.00	642332.1527	2193378.8133
L	21+36.00	-98.00	642357.1476	2193395.8775
L	21+44.00	121.28	642157.6983	2193304.4051
L	21+44.00	137.00	642143.6568	2193297.3348
L	21+45.00	-170.00	642417.4076	2193436.2970
L	21+72.00	-98.00	642340.9571	2193428.0313
L	21+72.00	-68.00	642314.1632	2193414.5397
L	23+23.14	-622.44	642741.3955	2193798.8832
L	23+24.70	-566.63	642690.8437	2193775.1783
L	25+31.74	-208.04	642268.1177	2193810.5870
L	25+34.56	-173.19	642236.4948	2193795.5840

### ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	24+08.18	-68.00	642207.9442	2193625.4872
L	24+60.00	-68.00	642184.6392	2193671.7702
L	24+95.00	-50.00	642151.5035	2193696.1825
L	24+95.00	-42.00	642144.4857	2193692.3419
L	25+47.01	-42.50	642117.7889	2193739.2657

### -L- ALIGNMENT

TYPE	STATION	NORTH	EAST
POT	10+00.00	642912.9025	2192423.2285
PC	13+66.76	642670.7428	2192698.6699
PT	18+76.19	642386.4654	2193119.7502
PC	24+60.73	642123.5757	2193641.8407
PRC	25+44.42	642082.8549	2193714.9284
PT	26+28.11	642042.1342	2193788.0162
POT	36+63.13	641576.6510	2194712.4507

### DATUM DESCRIPTION

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SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

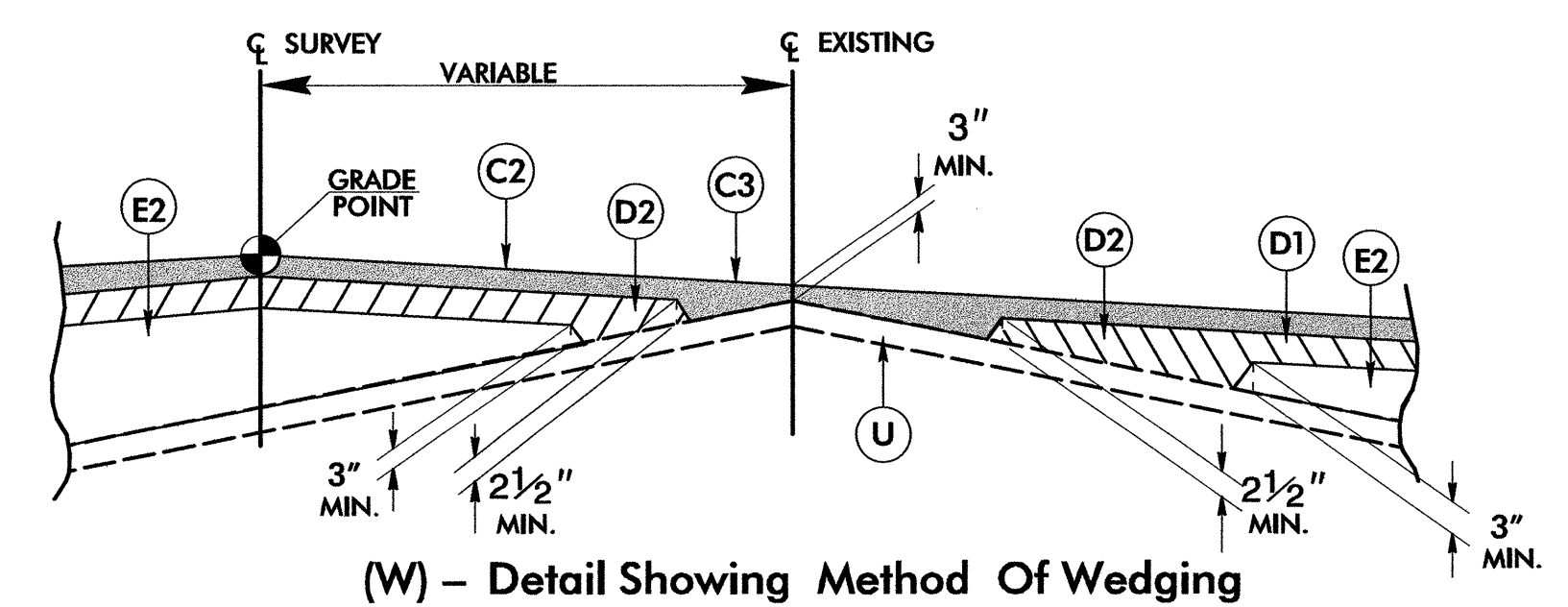
Ⓢ INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.

PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.  
 NETWORK ESTABLISHED FROM NGS ONLINE POSITIONING SERVICE (OPUS)

\\JAN-2012-110-QM1\p\proj\TIP\proj\B3864\Roadway\Proj\B3864-1s-1d.dgn

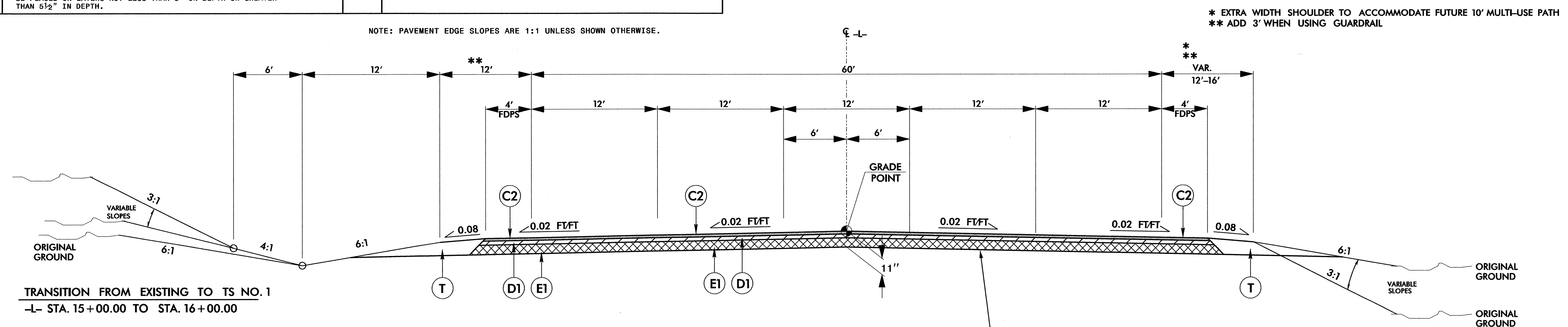
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PAVEMENT SCHEDULE			
C1	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.	J	8" AGGREGATE BASE COURSE
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	P	PRIME COAT AT THE RATE OF 0.35 GAL. PER SQUARE YARD
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.	R1	2' - 6" CURB & GUTTER
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	S	4" CONCRETE SIDEWALK
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" IN DEPTH OR GREATER THAN 4" IN DEPTH.	T	EARTH MATERIAL.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	U	EXISTING PAVEMENT.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5 1/2" IN DEPTH.	W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL ON THIS SHEET (W))



(W) - Detail Showing Method Of Wedging

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

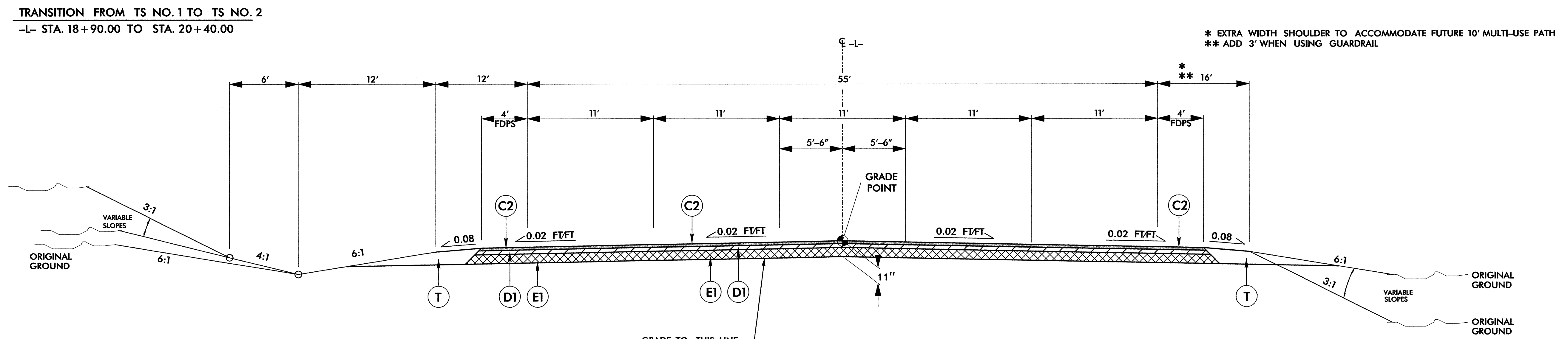


TRANSITION FROM EXISTING TO TS NO. 1  
 -L- STA. 15+00.00 TO STA. 16+00.00

USE TYPICAL SECTION NO. 1  
 -L- STA. 16+00.00 TO STA. 18+90.00

TYPICAL SECTION NO. 1  
 -L- (US 70 Business)

\* EXTRA WIDTH SHOULDER TO ACCOMMODATE FUTURE 10' MULTI-USE PATH  
 \*\* ADD 3' WHEN USING GUARDRAIL



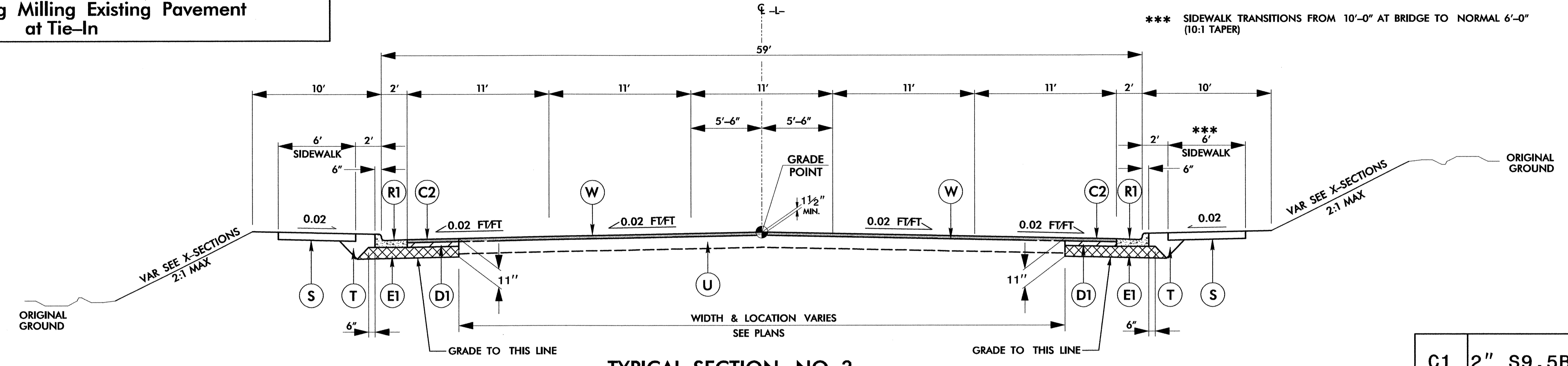
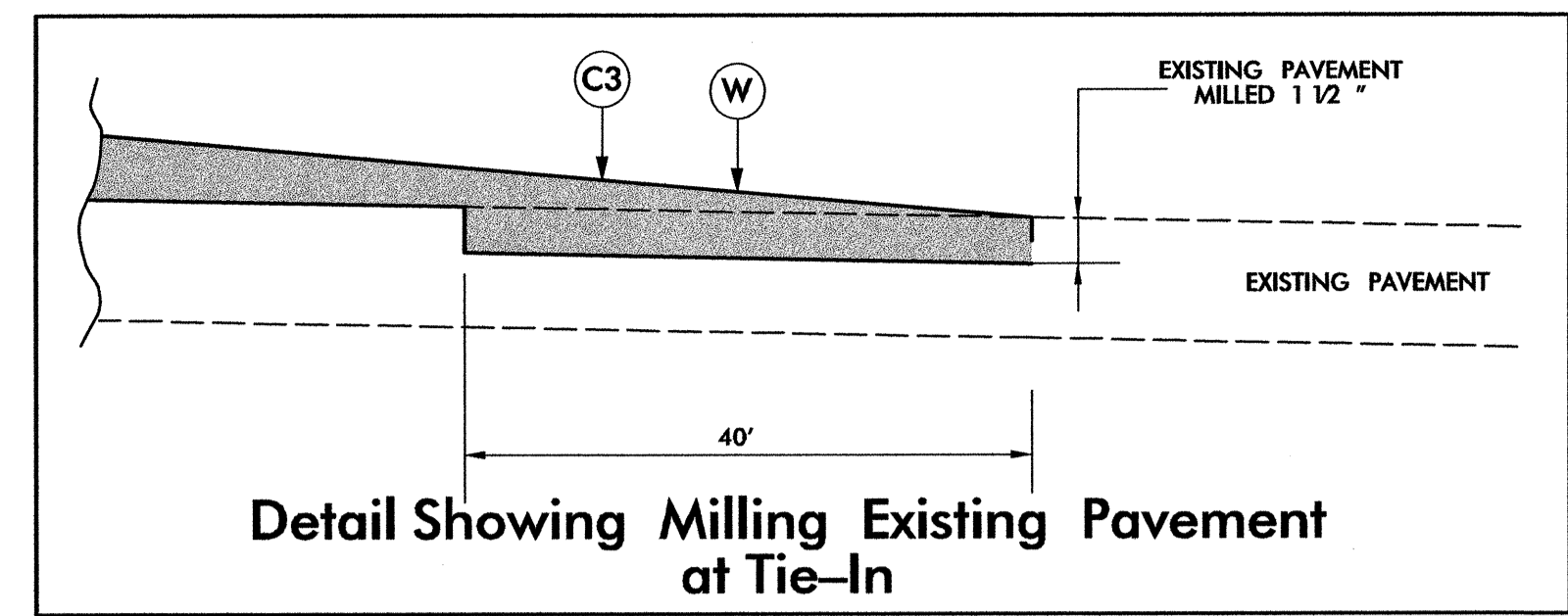
TRANSITION FROM TS NO. 1 TO TS NO. 2  
 -L- STA. 18+90.00 TO STA. 20+40.00

USE TYPICAL SECTION NO. 2  
 -L- STA. 20+40.00 TO BRIDGE STA. 20+75.00

TYPICAL SECTION NO. 2  
 -L- (US 70 Business)

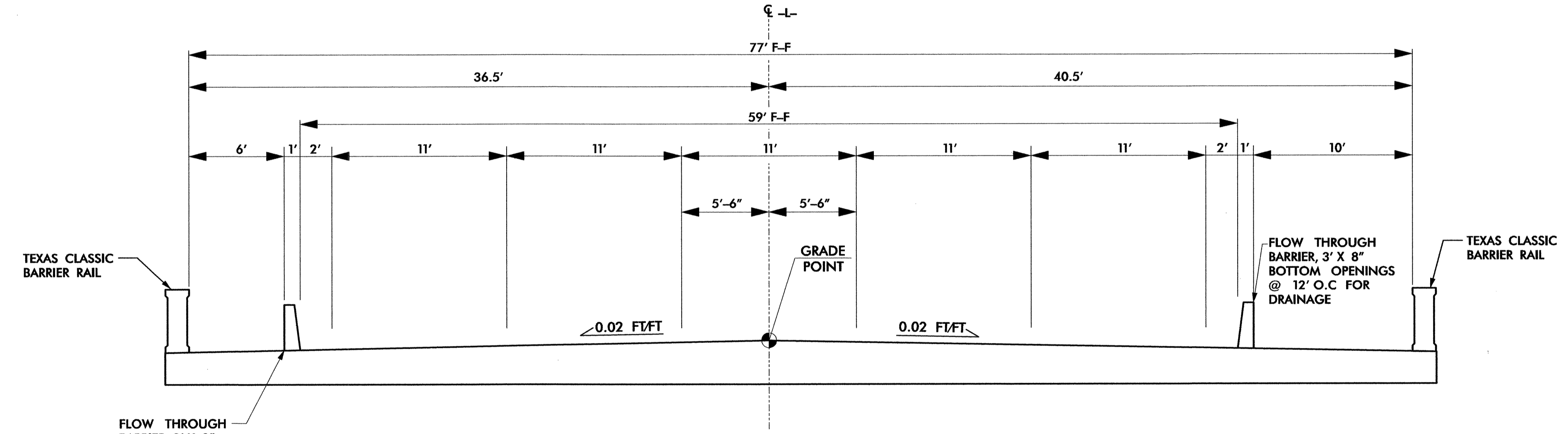
\* EXTRA WIDTH SHOULDER TO ACCOMMODATE FUTURE 10' MULTI-USE PATH  
 \*\* ADD 3' WHEN USING GUARDRAIL

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 Florence & Hutcherson, Inc.



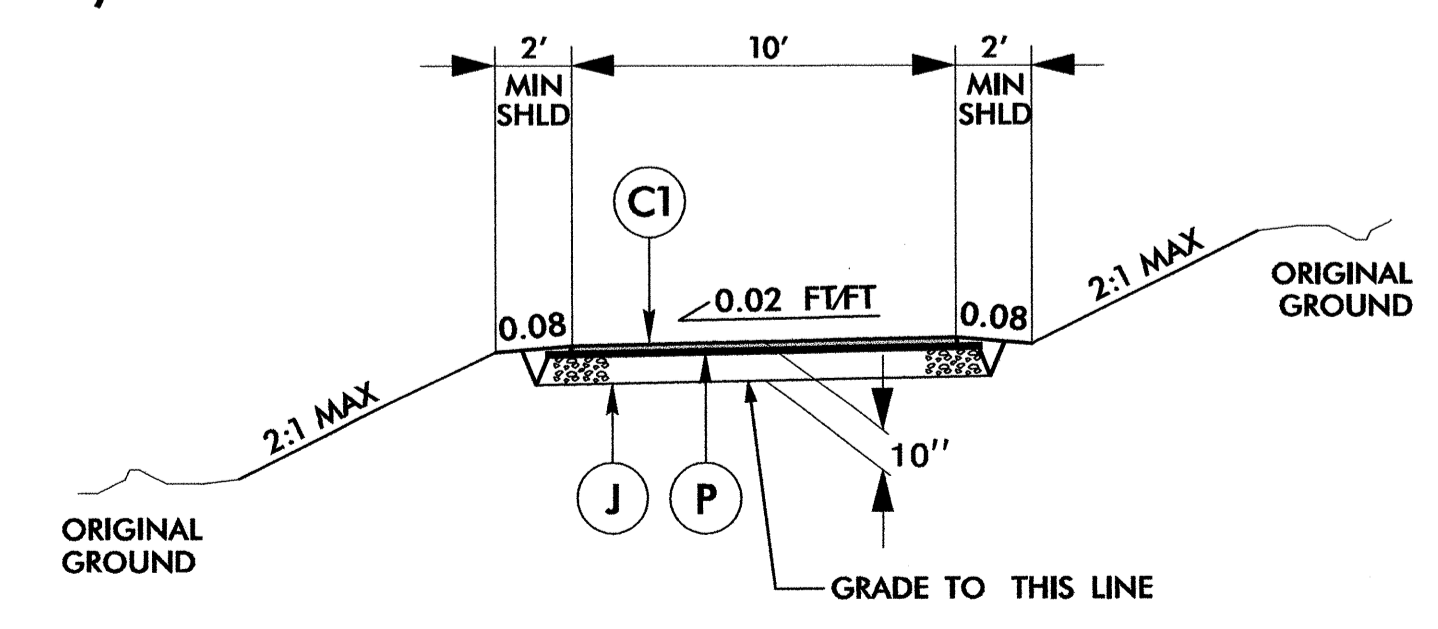
**TYPICAL SECTION NO. 3**  
 -L- (US 70 Business)

USE TYPICAL SECTION NO. 3  
 -L- BRIDGE STA. 24+50.00 TO STA. 26+05.00



**TYPICAL SECTION NO. 4**  
 -L- (US 70 Business)  
 BRIDGE

USE TYPICAL SECTION NO. 4  
 -L- BRIDGE STA. 20+75.00 TO BRIDGE STA. 24+50.00

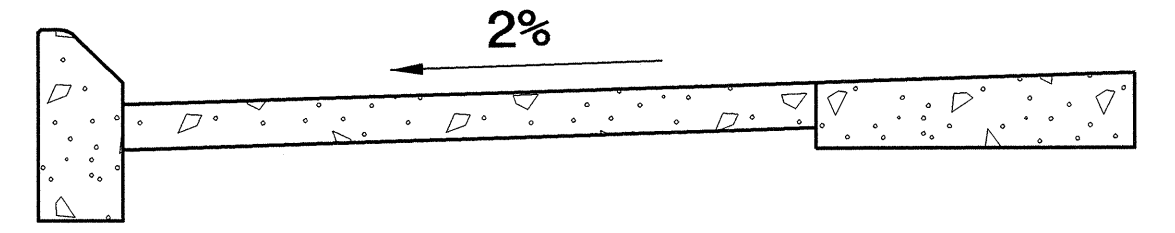
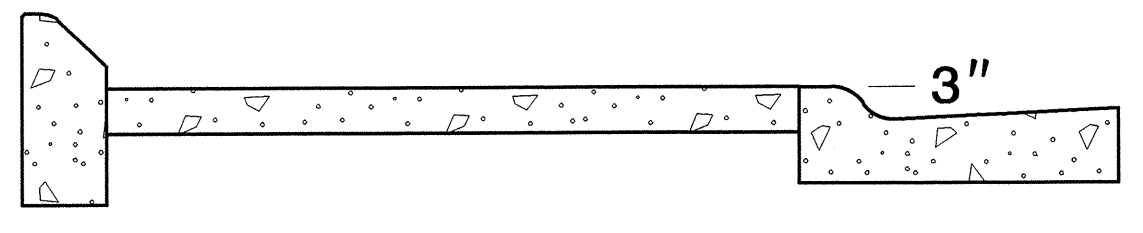
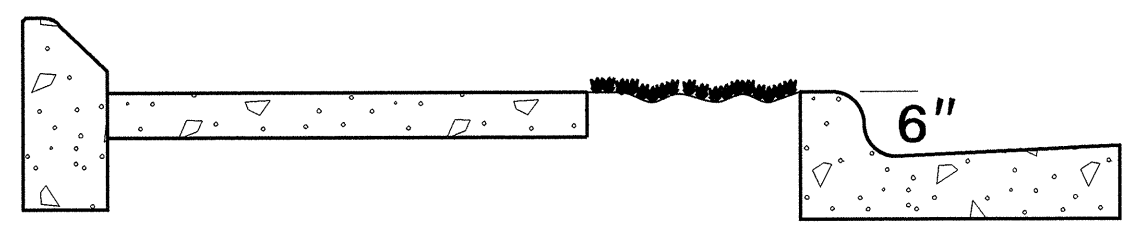
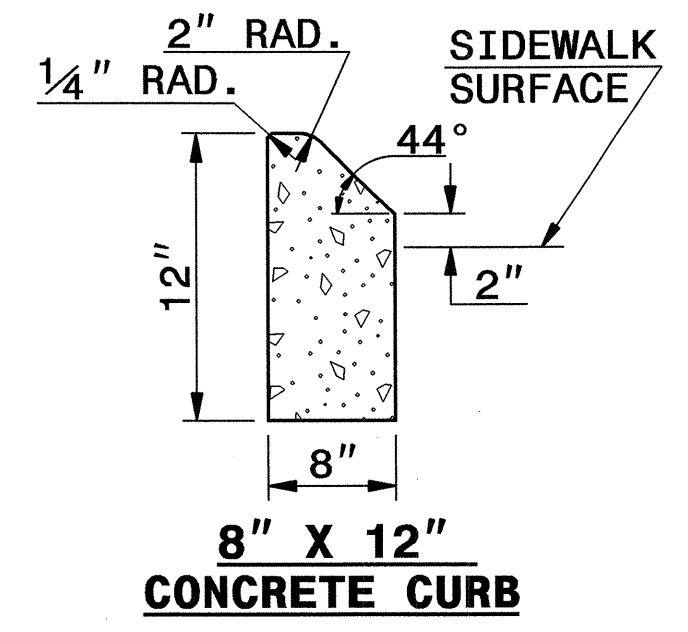
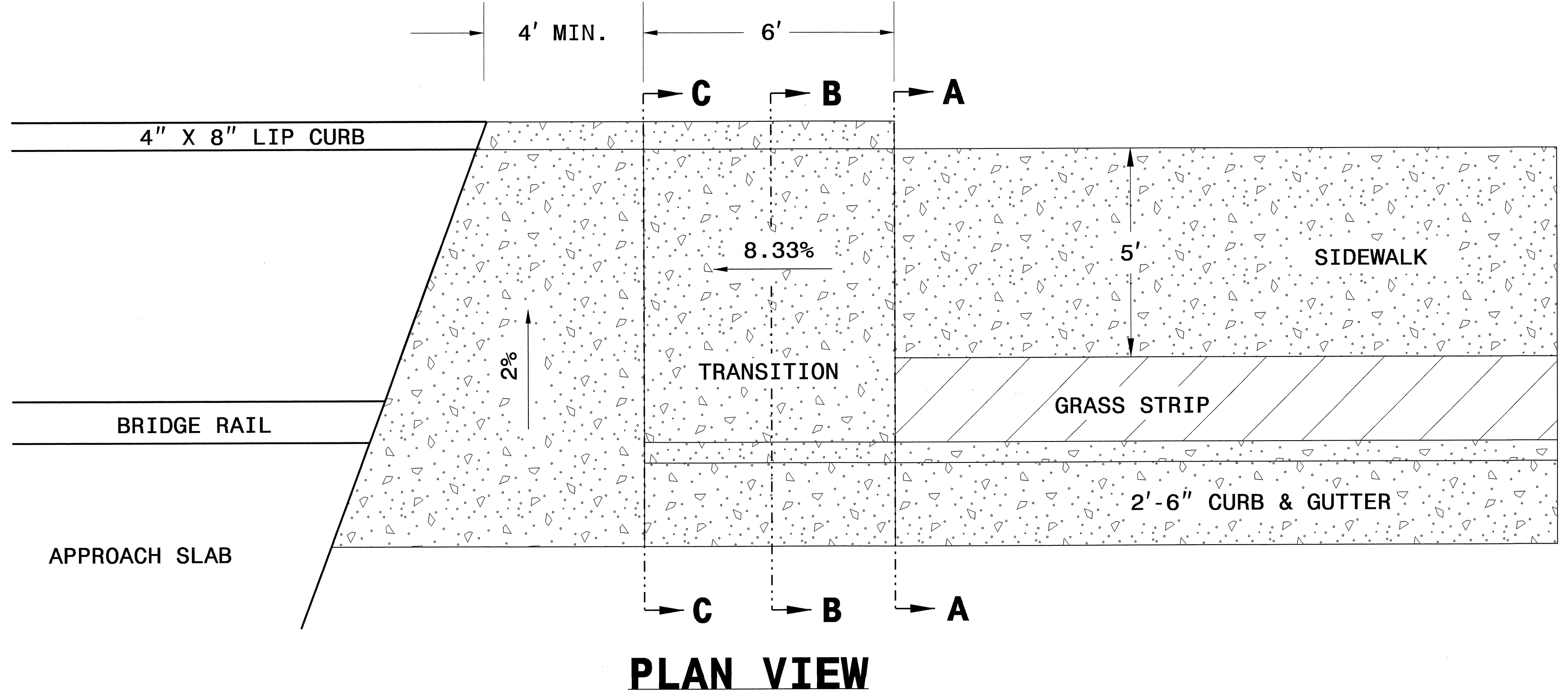


**TYPICAL SECTION NO. 5**  
 GREENWAY TRAIL

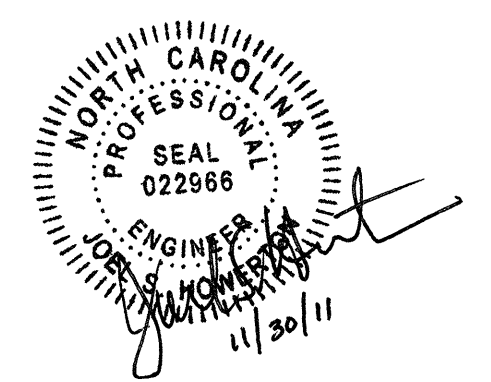
C1	2" S9.5B
C2	3" S9.5B
C3	VAR. S9.5B
D1	4" I19.0B
D2	VAR. I19.0B
E1	4" B25.0B
E2	VAR. B25.0B
J	8" ABC
P	PRIME COAT
R1	2'x6" C&G
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
W	WEDGING

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

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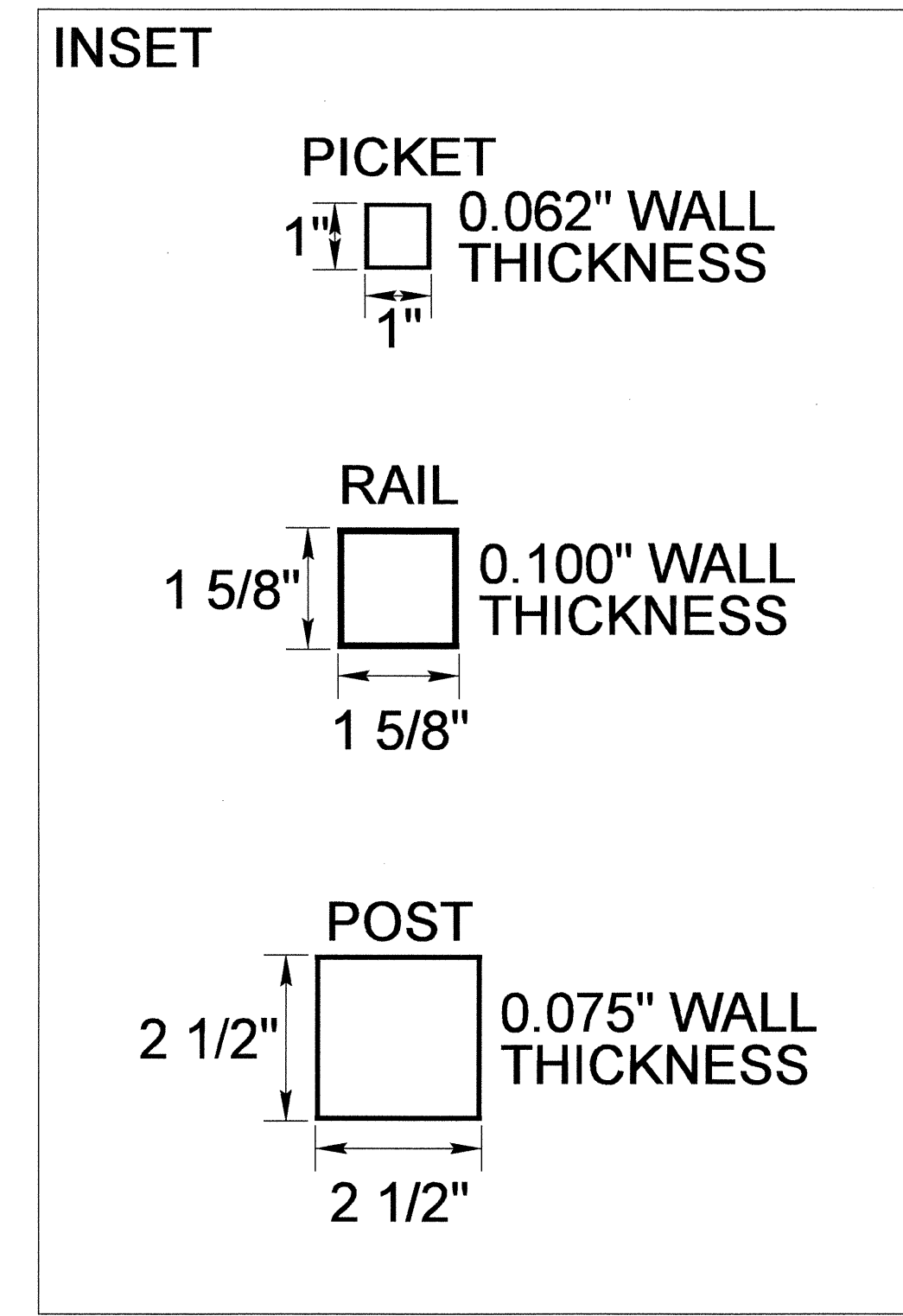
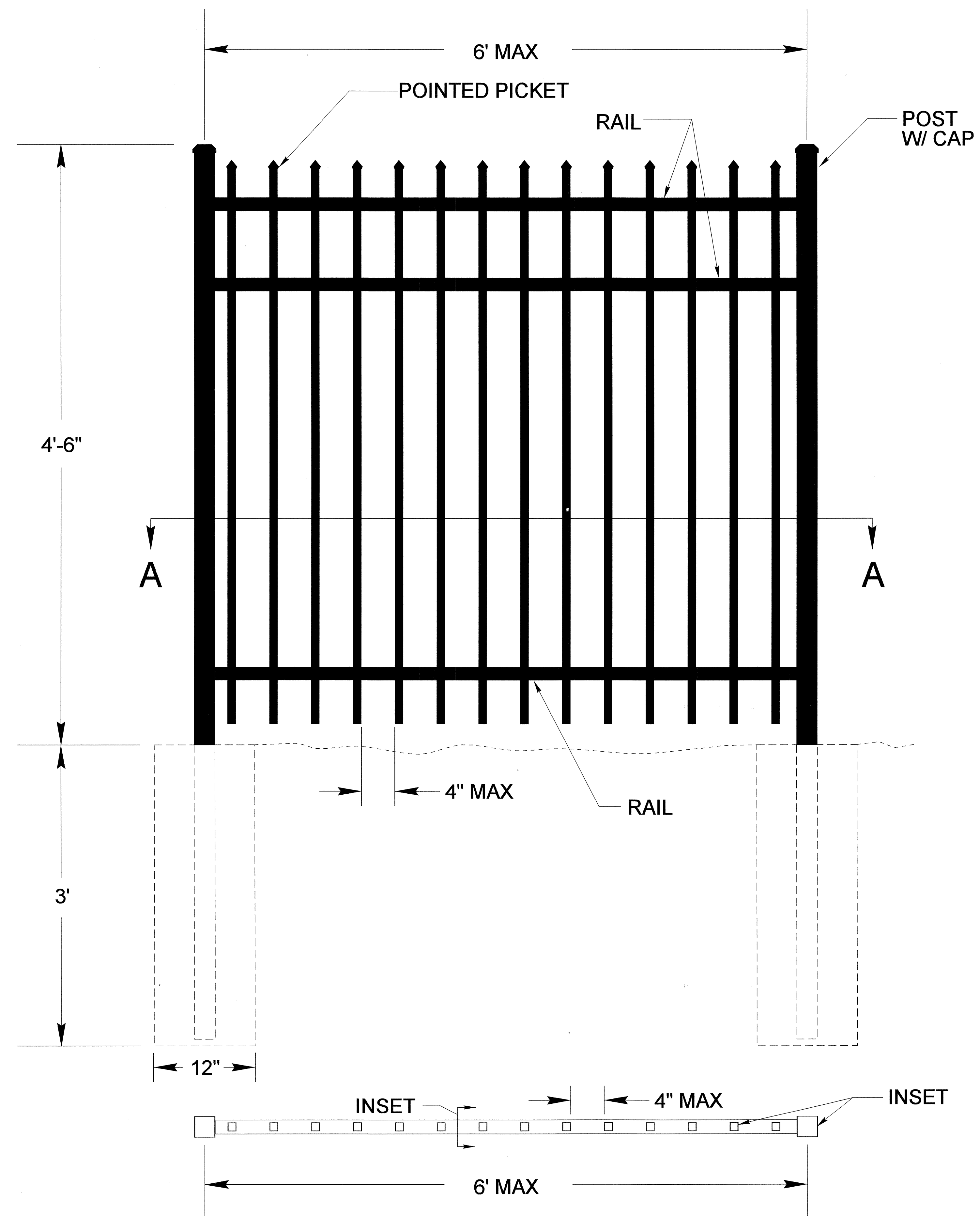
- GENERAL NOTES:**
1. USE CLASS "B" CONCRETE THROUGHOUT.
  2. PLACE EXPANSION JOINTS BETWEEN 2'-6" CURB & GUTTER AND TRANSITION AND APPROACH SLAB.
  3. FILL AND SEAL THE EXPANSION JOINT WITH APPROVED JOINT SEALING COMPOUND.



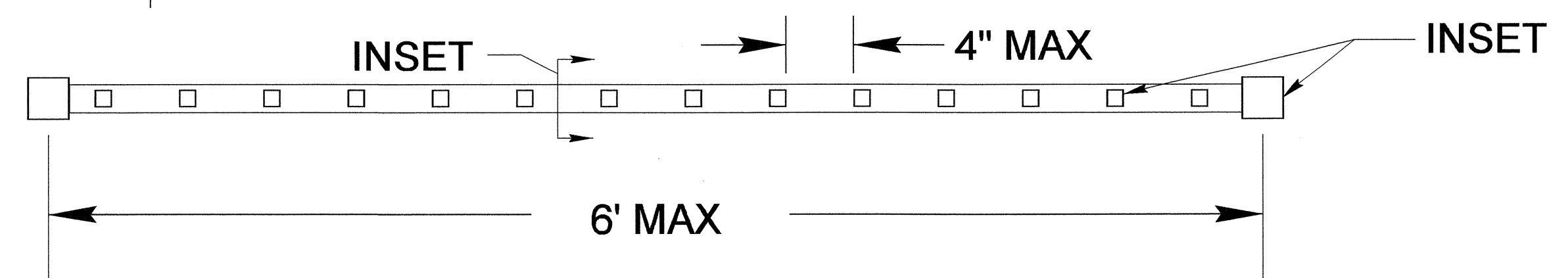
<b>CONTRACTS STANDARDS AND DEVELOPMENT UNIT</b>	
Office 919-707-6950 FAX 919-250-4119	
<b>2'-6" CURB AND GUTTER TRANSITION</b>	
ORIGINAL BY: KYLE KEMPF	DATE: 11/15/2011
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.: b3864 2'-6" c&gttrans.dgn	

I6-NOV-2010 08:45 Special Details \ktempf\english\b3864\_2'-6" c&gttrans.dgn

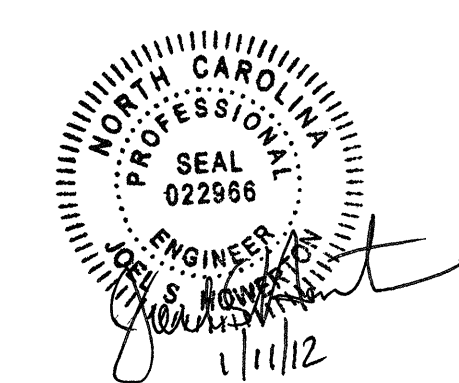




- NOTES:**
- 1) SUBMIT ALTERNATE FENCE MATERIAL TO ENGINEER FOR APPROVAL.
  - 2) SUBMIT ANY VARIATIONS IN FENCE DIMENSIONS TO ENGINEER FOR APPROVAL.
  - 3) POST MAY BE DRIVEN IF IT CAUSES NO STRUCTURAL DAMAGE. (SEE MANUFACTURERS RECOMMENDATIONS)



**SECTION A-A**



**CONTRACT STANDARDS AND DEVELOPMENT UNIT**  
Office 919-707-6950 FAX 919-250-4119

**ALUMINUM ORNAMENTAL FENCE**

ORIGINAL BY: K KEMPF DATE: 4-2009  
 MODIFIED BY: *[Signature]* DATE: *[Signature]*  
 CHECKED BY: *[Signature]* DATE: 1/11/12  
 FILE SPEC.: *[Signature]*

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STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C202783

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**SUMMARY OF QUANTITIES**

ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION
0029000000-N	SP	Lump Sum		REINFORCED BRIDGE APPROACH FILL, STATION ***** (22+62.5 -L-)
0043000000-N	226	Lump Sum		GRADING
0050000000-E	226	1	ACR	SUPPLEMENTARY CLEARING & GRUBBING
0057000000-E	226	1,300	CY	UNDERCUT EXCAVATION
0195000000-E	265	1,300	CY	SELECT GRANULAR MATERIAL
0196000000-E	270	1,400	SY	GEOTEXTILE FOR SOIL STABILIZATION
0255000000-E	SP	4,000	TON	GENERIC GRADING ITEM EXCAVATION, HAULING AND DISPOSAL OF CONTAMINATED SOIL
0318000000-E	300	80	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES
0320000000-E	300	230	SY	FOUNDATION CONDITIONING GEOTEXTILE
0343000000-E	310	364	LF	15" SIDE DRAIN PIPE
0344000000-E	310	236	LF	18" SIDE DRAIN PIPE
0366000000-E	310	8	LF	15" RC PIPE CULVERTS, CLASS III
0582000000-E	310	56	LF	15" CS PIPE CULVERTS, 0.064" THICK
0636000000-E	310	4	EA	*** CS PIPE ELBOWS, ***** THICK (15", 0.064") 0.064"
1121000000-E	520	63	TON	AGGREGATE BASE COURSE
1220000000-E	545	100	TON	INCIDENTAL STONE BASE
1275000000-E	600	42	GAL	PRIME COAT
1330000000-E	607	380	SY	INCIDENTAL MILLING
1489000000-E	610	1,020	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
1498000000-E	610	1,010	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B
1519000000-E	610	810	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
1575000000-E	620	145	TON	ASPHALT BINDER FOR PLANT MIX
#				
2022000000-E	815	89.6	CY	SUBDRAIN EXCAVATION
2033000000-E	815	67.2	CY	SUBDRAIN FINE AGGREGATE
2044000000-E	815	400	LF	6" PERFORATED SUBDRAIN PIPE
2070000000-N	815	1	EA	SUBDRAIN PIPE OUTLET
2077000000-E	815	6	LF	6" OUTLET PIPE
2286000000-N	840	11	EA	MASONRY DRAINAGE STRUCTURES
2308000000-E	840	0.6	LF	MASONRY DRAINAGE STRUCTURES
2364000000-N	840	1	EA	FRAME WITH TWO GRATES, STD 840.16
2366000000-N	840	5	EA	FRAME WITH TWO GRATES, STD 840.24
2367000000-N	840	4	EA	FRAME WITH TWO GRATES, STD 840.29
2396000000-N	840	1	EA	FRAME WITH COVER, STD 840.54
2549000000-E	846	230	LF	2'-6" CONCRETE CURB & GUTTER
2556000000-E	846	20	LF	SHOULDER BERM GUTTER
2591000000-E	848	150	SY	4" CONCRETE SIDEWALK
2605000000-N	848	2	EA	CONCRETE CURB RAMP
3030000000-E	862	150	LF	STEEL BM GUARDRAIL
3150000000-N	862	5	EA	ADDITIONAL GUARDRAIL POSTS
3215000000-N	862	1	EA	GUARDRAIL ANCHOR UNITS, TYPE III
3270000000-N	SP	1	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
3575000000-E	SP	50	LF	GENERIC FENCING ITEM ALUMINUM ORNAMENTAL FENCE
3656000000-E	876	1,800	SY	GEOTEXTILE FOR DRAINAGE
3659000000-N	SP	2	EA	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON
4072000000-E	903	143	LF	SUPPORTS, 3-LB STEEL U-CHANNEL
4096000000-N	904	2	EA	SIGN ERECTION, TYPE D
4102000000-N	904	6	EA	SIGN ERECTION, TYPE E
4108000000-N	904	1	EA	SIGN ERECTION, TYPE F

ItemNumber	Sec #	Quantity	Unit	Description
4155000000-N	907	8	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
4400000000-E	1110	82	SF	WORK ZONE SIGNS (STATIONARY)
4405000000-E	1110	64	SF	WORK ZONE SIGNS (PORTABLE)
4410000000-E	1110	188	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
4415000000-N	1115	2	EA	FLASHING ARROW BOARD
4420000000-N	1120	2	EA	PORTABLE CHANGEABLE MESSAGE SIGN
4430000000-N	1130	161	EA	DRUMS
4445000000-E	1145	192	LF	BARRICADES (TYPE III)
4507000000-E	1170	120	LF	WATER FILLED BARRIER
4510000000-N	SP	48	HR	LAW ENFORCEMENT
4595000000-E	SP	2,290	SF	GENERIC TRAFFIC CONTROL ITEM MAINTENANCE & REMOVAL OF EXT DETOUR SIGNS OUTSIDE PROJECT LIMITS
4650000000-N	1251	59	EA	TEMPORARY RAISED PAVEMENT MARKERS
4697000000-E	1205	357	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)
4710000000-E	1205	86	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
4725000000-E	1205	11	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
4810000000-E	1205	12,000	LF	PAINT PAVEMENT MARKING LINES (4")
4820000000-E	1205	260	LF	PAINT PAVEMENT MARKING LINES (8")
4835000000-E	1205	66	LF	PAINT PAVEMENT MARKING LINES (24")
4845000000-N	1205	26	EA	PAINT PAVEMENT MARKING SYMBOL
4847000000-E	1205	5,288	LF	POLYUREA PAVEMENT MARKING LINES (4", *****) (HIGHLY REFLECTIVE ELEMENTS)
4900000000-N	1251	71	EA	PERMANENT RAISED PAVEMENT MARKERS
6000000000-E	1605	2,155	LF	TEMPORARY SILT FENCE

ItemNumber	Sec #	Quantity	Unit	Description
6006000000-E	1610	225	TON	STONE FOR EROSION CONTROL, CLASS A
6009000000-E	1610	55	TON	STONE FOR EROSION CONTROL, CLASS B
6012000000-E	1610	585	TON	SEDIMENT CONTROL STONE
6015000000-E	1615	1.5	ACR	TEMPORARY MULCHING
6018000000-E	1620	50	LB	SEED FOR TEMPORARY SEEDING
6021000000-E	1620	1.25	TON	FERTILIZER FOR TEMPORARY SEEDING
6024000000-E	1622	200	LF	TEMPORARY SLOPE DRAINS
6029000000-E	SP	1,400	LF	SAFETY FENCE
6030000000-E	1630	60	CY	SILT EXCAVATION
6036000000-E	1631	1,560	SY	MATting FOR EROSION CONTROL
6037000000-E	SP	10	SY	COIR FIBER MAT
6038000000-E	SP	50	SY	PERMANENT SOIL REINFORCEMENT MAT
6042000000-E	1632	590	LF	1/4" HARDWARE CLOTH
6048000000-E	SP	640	SY	FLOATING TURBIDITY CURTAIN
6070000000-N	1639	20	EA	SPECIAL STILLING BASINS
6071030000-E	1640	50	LF	COIR FIBER BAFFLE
6071050000-E	SP	1	EA	*** SKIMMER (1-1/2")
6084000000-E	1660	3	ACR	SEEDING & MULCHING
6087000000-E	1660	3	ACR	MOWING
6090000000-E	1661	50	LB	SEED FOR REPAIR SEEDING
6093000000-E	1661	0.25	TON	FERTILIZER FOR REPAIR SEEDING
6096000000-E	1662	50	LB	SEED FOR SUPPLEMENTAL SEEDING
6108000000-E	1665	1	TON	FERTILIZER TOPDRESSING
6114500000-N	1667	10	MHR	SPECIALIZED HAND MOWING
6117000000-N	SP	18	EA	RESPONSE FOR EROSION CONTROL
6123000000-E	1670	0.1	ACR	REFORESTATION

ItemNumber	Sec #	Quantity	Unit	Description
7288000000-E	1715	30	LF	PAVED TRENCHING (***** (1, 2"))
7301000000-E	1715	10	LF	DIRECTIONAL DRILL (***** (1, 2"))
7324000000-N	1716	1	EA	JUNCTION BOX (STANDARD SIZE)
7444000000-E	1725	560	LF	INDUCTIVE LOOP SAWCUT
7456000000-E	1726	380	LF	LEAD-IN CABLE (***** (14-2))
7636000000-N	1745	3	EA	SIGN FOR SIGNALS

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Florence & Hutchison, Inc.



# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

## SUMMARY OF EARTHWORK IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
<b>SUMMARY NO. 1</b>					
-L- 15+50 TO 20+84.78 (BRIDGE)	2411		167		2244
<b>TOTAL SUMMARY NO. 1</b>	<b>2411</b>		<b>167</b>		<b>2244</b>
<b>SUMMARY NO. 2</b>					
-L- 24+39.15 (BRIDGE) TO 25+50	72		183	111	
<b>TOTAL SUMMARY NO. 2</b>	<b>72</b>		<b>183</b>	<b>111</b>	
<b>SUB-TOTAL SUMMARY NOS. 1 &amp; 2</b>	<b>2483</b>		<b>350</b>	<b>111</b>	<b>2244</b>
WASTE IN LIEU OF BORROW				-111	-111
<b>PROJECT TOTALS</b>	<b>2483</b>		<b>350</b>	<b>0</b>	<b>2133</b>
EST. FOR REPLACING TOPSOIL ON BORROW PITS					
<b>GRAND TOTALS</b>	<b>2483</b>		<b>350</b>		<b>2133</b>
<b>SAY</b>	<b>2500</b>		<b>350</b>		
SHOULDER BORROW = 390 CY ADDITIONAL UNDERCUT = 1300 CY SELECT GRANULAR MATERIAL = 1300 CY					

Note: Approximate quantities only. Unclassified Excavation, Fine Grading, Shoulder Borrow, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

Note: Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

## PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	YD <sup>2</sup>
-L-	15+00	21+06	LT & RT	4074.33
-L-	24+19	25+00	LT & RT	456.44
<b>TOTAL:</b>				<b>4530.78</b>
<b>SAY:</b>				<b>4540</b>

## FENCE SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/CL	LENGTH LF	ALUMINUM ORNAMENTAL FENCE	
					TYPE	LENGTH LF
-L-	24+39.15	24+63.15	RT	24		
-L-	24+59.78	24+83.78	LT	24		
<b>TOTAL:</b>				<b>48</b>		
<b>SAY:</b>				<b>50</b>		

## GUARDRAIL SUMMARY

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.  
 TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.  
 FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.  
 W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.  
 G = GATING IMPACT ATTENUATOR TYPE 350  
 NG = NON-GATING IMPACT ATTENUATOR TYPE 350

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS										REMARKS													
				STRAIGHT	SHOP CURVED	DOUBLE FACED	APPROACH END	TRAILING END			APPROACH END	TRAILING END	XI MOD	XI	GRAU 350	M-350	TYPE III	CAT-1	VI MOD	BIC	AT-1	EA	G	NG														
-L-	18+24.35	20+43.10	RT	218.75			20+43.10		2	19	200	4			1		1																					
<b>SUB TOTAL</b>				218.75																																		
				LESS ANCHOR DEDUCTIONS																																		
				-50.00																																		
				-18.75																																		
<b>GRAND TOTAL</b>				<b>150.00</b>																																		
							5 ADDITIONAL GUARDRAIL POST																															
<b>SAY</b>				<b>150.00</b>																																		

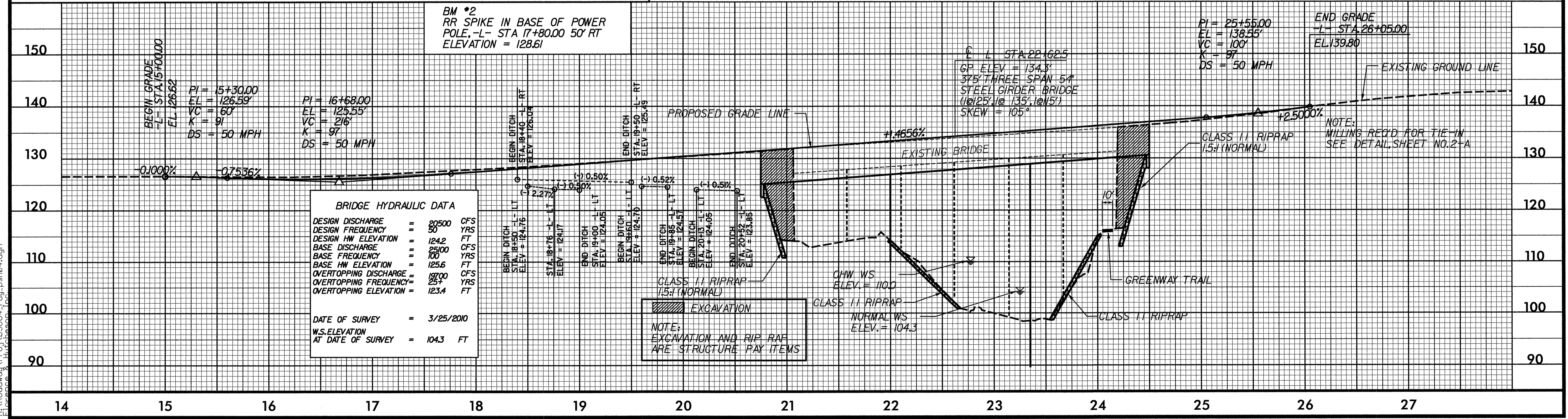
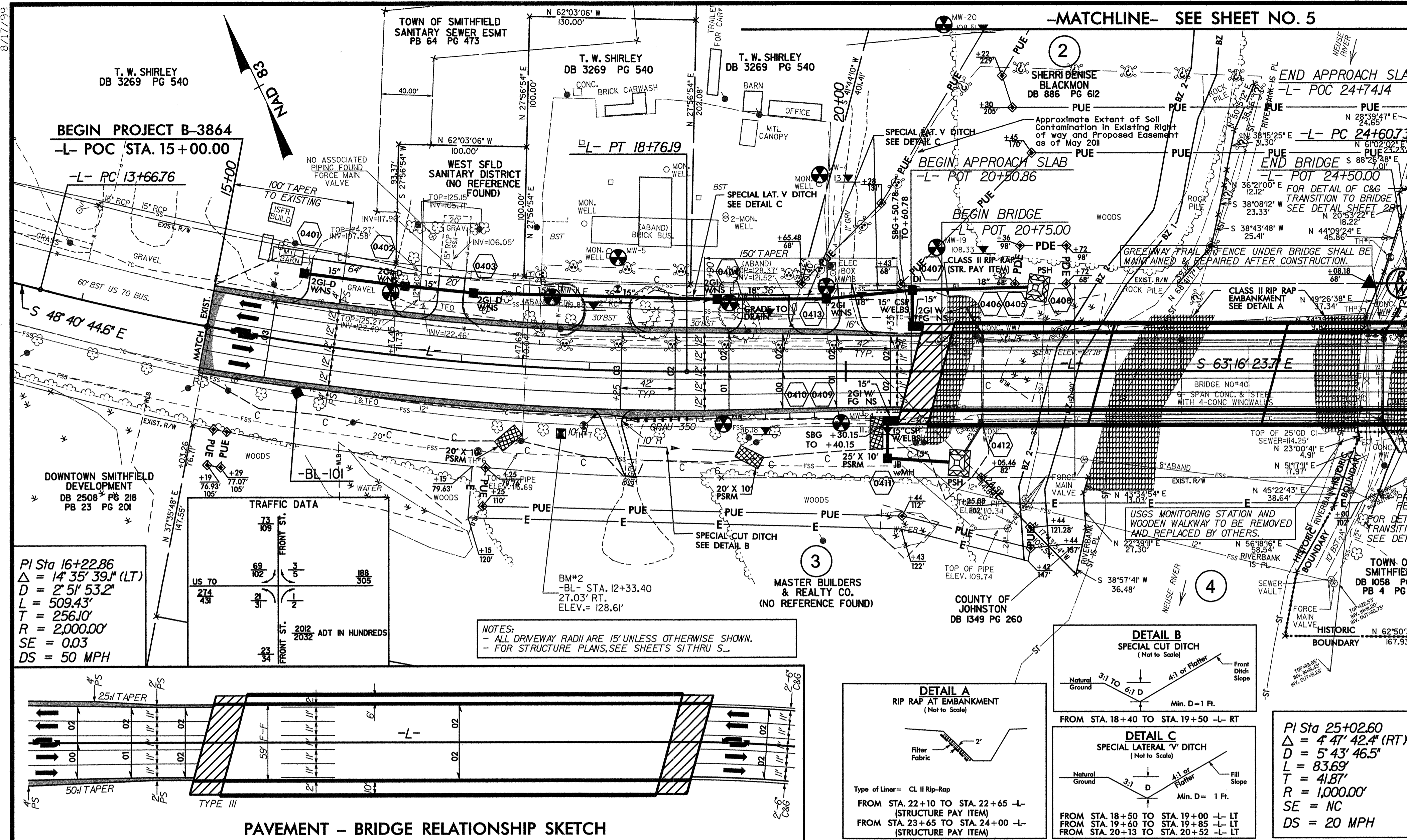
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**Florence & Hutcheson**  
CONSULTING ENGINEERS  
5121 Kingdom Way, Suite 100 Raleigh, NC 27607  
NC License No. P-0288

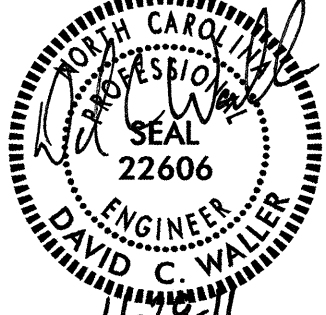
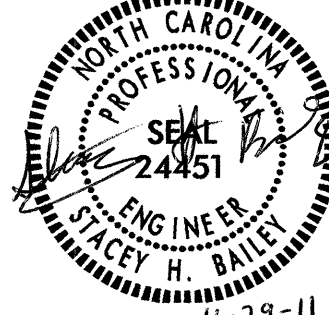
PROJECT REFERENCE NO. B-3864  
SHEET NO. 4  
RW SHEET NO.  
ROADWAY DESIGN ENGINEER  
HYDRAULICS ENGINEER

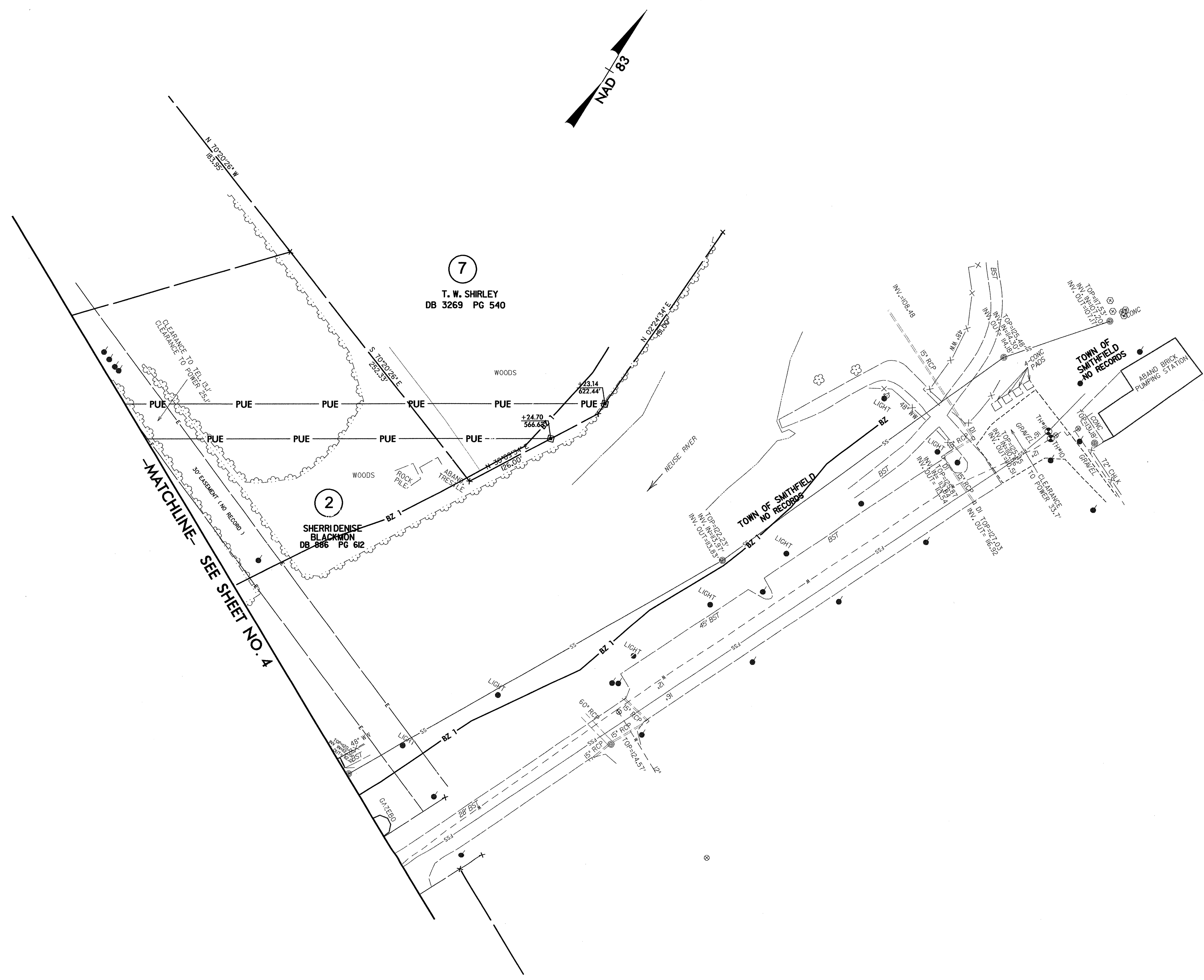
SEAL 22606  
SEAL 24451  
DAVID C. WALKER  
JACQUELINE H. THAYER



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8/17/99

PROJECT REFERENCE NO. B-3864		SHEET NO. 5
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
		
		11-29-11



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 Florence & Hutcheson, Inc.