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09/08/99

TIP PROJECT: R–5848

CONTRACT: DF00175

See Sheet 1A For Index of Sheets

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

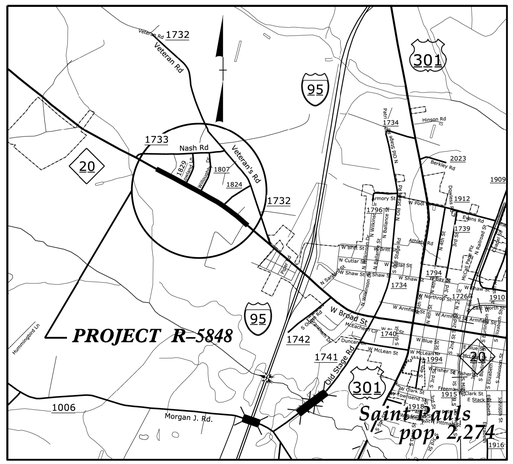
ROBESON COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R–5848	1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
46958.1.1		P.E.
46958.2.1		ROW/UTIL
46958.3.1		CONST

LOCATION: *W BROAD STREET (NC 20) FROM 0.17 MI EAST OF NASH ROAD (SR 1829) TO 0.14 MI WEST OF VETERANS ROAD (SR 1732)*

TYPE OF WORK: *GRADING, WIDENING, DRAINAGE, PAVING, AND PAVEMENT MARKINGS*



VICINITY MAP N.T.S.

NAD 83

BEGIN STATE PROJECT R–5848
–L– Sta. 14+15.00

–Y1– SR 1829 (ROWLAND LN)

–Y3– SR 1807 (WILLOUGHBY DR)

JASON PL

–L– NC 20

TO NC 71

END CONSTRUCTION
–Y2– Sta. 11+15.00

–Y2– PEPSI ENTRANCE

–L– NC 20

TO I–95

END STATE PROJECT R–5848
–L– Sta. 41+40.00

GRAPHIC SCALES

50 25 0 50 100
PLANS

50 25 0 50 100
PROFILE (HORIZONTAL)

10 5 0 10 20
PROFILE (VERTICAL)

DESIGN DATA

ADT 2017 = 8,500
ADT 2037 = 14,600

T = 13 % *
V = 55 MPH
* TTST = 6 DUAL = 7

PROJECT LENGTH

TOTAL LENGTH OF STATE PROJECT R–5848 = 0.516 MI

Prepared in the Office of:
DIVISION OF HIGHWAYS
431 Transportation Dr., Fayetteville NC, 28301

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
MARCH 31, 2017

LETTING DATE:
JULY 19, 2017

SEAN MATUSZEWSKI
PROJECT ENGINEER

ALEX HENDERSON
PROJECT DESIGN ENGINEER

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION •

19-JUN-2017 07:58
H:\DDC\Projects\R-5848 NC 20 RT Turn Lane for Pepsi Plant\Roadway\Proj\R-5848_Rdy_tsh.dgn
$$$$USERNAME$$$$

12/2/2016

PROJECT REFERENCE NO.	SHEET NO.
R-5848	1B

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale **S.U.E. = Subsurface Utility Engineering*

BOUNDARIES AND PROPERTY:

- State Line
- County Line
- Township Line
- City Line
- Reservation Line
- Property Line
- Existing Iron Pin — EIP
- Computed Property Corner
- Property Monument — ECM
- Parcel/Sequence Number — 123
- Existing Fence Line
- 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
- Existing Historic Property Boundary — HPB
- Known Contamination Area: Soil — S
- Potential Contamination Area: Soil — S
- Known Contamination Area: Water — W
- Potential Contamination Area: Water — W
- Contaminated Site: Known or Potential

BUILDINGS AND OTHER CULTURE:

- Gas Pump Vent or U/G Tank Cap
- Sign — S
- Well — W
- Small Mine
- 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 — FLOW
- False Sump

RAILROADS:

- Standard Gauge — CSX TRANSPORTATION
- RR Signal Milepost — MILEPOST 35
- Switch — SWITCH
- RR Abandoned
- RR Dismantled

RIGHT OF WAY & PROJECT CONTROL:

- Secondary Horiz and Vert Control Point
- Primary Horiz Control Point
- Primary Horiz and Vert Control Point
- Exist Permanent Easment Pin and Cap
- New Permanent Easement Pin and Cap
- Vertical Benchmark
- Existing Right of Way Marker
- Existing Right of Way Line
- New Right of Way Line — RW
- New Right of Way Line with Pin and Cap — RW
- New Right of Way Line with Concrete or Granite R/W Marker — RW
- New Control of Access Line with Concrete C/A Marker — C/A
- Existing Control of Access — C/A
- New Control of Access — C/A
- Existing Easement Line — E
- New Temporary Construction Easement — E
- New Temporary Drainage Easement — TDE
- New Permanent Drainage Easement — PDE
- New Permanent Drainage / Utility Easement — DUE
- New Permanent Utility Easement — PUE
- New Temporary Utility Easement — TUE
- New Aerial Utility Easement — AUE

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
- Proposed Guardrail
- Existing Cable Guiderail
- Proposed Cable Guiderail
- Equality Symbol
- Pavement Removal

VEGETATION:

- Single Tree
- Single Shrub
- Hedge
- Woods Line
- Orchard
- Vineyard — 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 — S
- Storm Sewer — S

UTILITIES:

POWER:

- Existing Power Pole
- Proposed Power Pole
- Existing Joint Use Pole
- Proposed Joint Use Pole
- Power Manhole — P
- Power Line Tower
- Power Transformer
- U/G Power Cable Hand Hole
- H–Frame Pole
- U/G Power Line LOS B (S.U.E.*) — P
- U/G Power Line LOS C (S.U.E.*) — P
- U/G Power Line LOS D (S.U.E.*) — P

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole — T
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole — HH
- U/G Telephone Cable LOS B (S.U.E.*) — T
- U/G Telephone Cable LOS C (S.U.E.*) — T
- U/G Telephone Cable LOS D (S.U.E.*) — T
- U/G Telephone Conduit LOS B (S.U.E.*) — TC
- U/G Telephone Conduit LOS C (S.U.E.*) — TC
- U/G Telephone Conduit LOS D (S.U.E.*) — TC
- U/G Fiber Optics Cable LOS B (S.U.E.*) — T FO
- U/G Fiber Optics Cable LOS C (S.U.E.*) — T FO
- U/G Fiber Optics Cable LOS D (S.U.E.*) — T FO

WATER:

- Water Manhole — W
- Water Meter
- Water Valve
- Water Hydrant
- U/G Water Line LOS B (S.U.E*) — W
- U/G Water Line LOS C (S.U.E*) — W
- U/G Water Line LOS D (S.U.E*) — W
- Above Ground Water Line — A/G Water

TV:

- TV Pedestal — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- U/G TV Cable LOS B (S.U.E.*) — TV
- U/G TV Cable LOS C (S.U.E.*) — TV
- U/G TV Cable LOS D (S.U.E.*) — TV
- U/G Fiber Optic Cable LOS B (S.U.E.*) — TV FO
- U/G Fiber Optic Cable LOS C (S.U.E.*) — TV FO
- U/G Fiber Optic Cable LOS D (S.U.E.*) — TV FO

GAS:

- Gas Valve
- Gas Meter
- U/G Gas Line LOS B (S.U.E.*) — G
- U/G Gas Line LOS C (S.U.E.*) — G
- U/G Gas Line LOS D (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
- SS Forced Main Line LOS B (S.U.E.*) — FSS
- SS Forced Main Line LOS C (S.U.E.*) — FSS
- SS Forced Main Line LOS D (S.U.E.*) — FSS

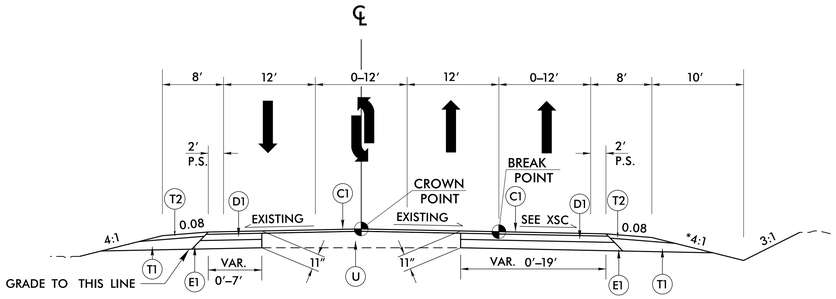
MISCELLANEOUS:

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

PROJECT REFERENCE NO.	SHEET NO.
R-5848	2A-1

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
R1	5" MONOLITHIC CONCRETE ISLAND (KEYED IN).
T1	EARTH MATERIAL.
T2	AGGREGATE SHOULDER BORROW.
U	EXISTING PAVEMENT.

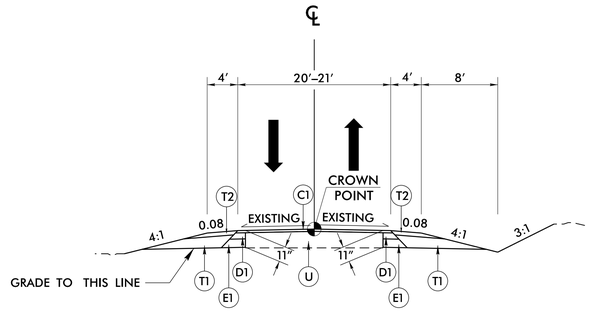


TYPICAL SECTION NO. 1

–L– STA. 14+15.00 TO 41+40.00

* VAR. 2.5:1 TO 4:1 –L– STA. 19+50.00 LT TO 30+50.00 LT SEE X–SECTION

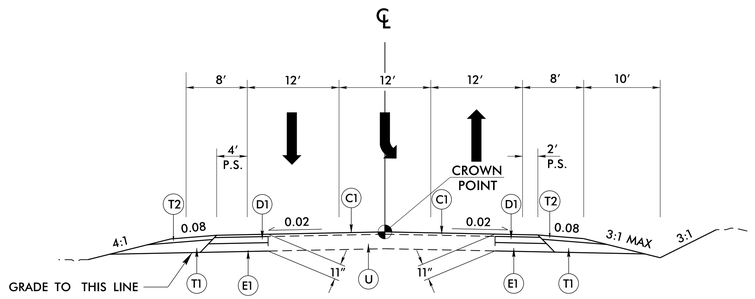
* VAR. 2.5:1 TO 4:1 –L– STA. 21+00.00 RT TO 26+50.00 RT SEE X–SECTION



TYPICAL SECTION NO. 2

–Y1– STA. 10+50.00 TO 11+07.00

–Y3– STA. 10+67.00 TO 11+07.00



TYPICAL SECTION NO. 3

–Y2– STA. 10+30.00 TO 11+15.00

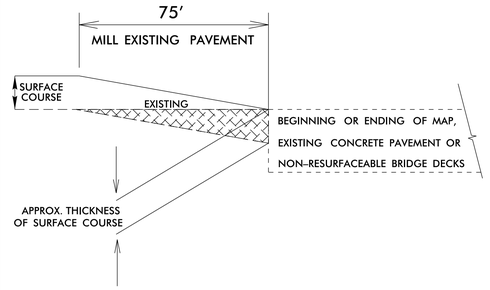
MILLING AT PAVEMENT TIE–INS

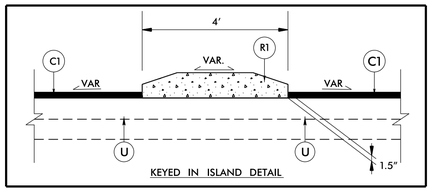
NOTES TO CONTRACTOR

For surface mixes over 1" in thickness, mill the existing pavement in acoordance with the following sketch as directed by the Engineer.

Locations shall include ties into existing concrete pavement, at bridge approaches where the bridge will not be resurfaced, and at the beginning and ending point of each resurfacing map.

Perform the work in accordance with Section 607 of the January 2012 North Carolina Department of Transportation Standard Specifications for Roads and Structures. Resurfacing will be accomplished at the same time as the milling operation.





PROJECT NOTES

1. The Contractor shall not work on both sides of the road simultaneously within the same area.
2. Ingress and egress shall be maintained to all businesses and dwellings on the project.
3. At the end of each workday, the Contractor shall be required to backfill any area adjacent to existing travelway that has been graded leaving no more than a 1" drop–off.
4. A minimum of two–way, two–lane traffic (plus all existing left and right turn lanes) shall be maintained during periods of construction inactivity.
5. The Contractor shall not be allowed to stop traffic for more than 5 minutes at a time in any one direction.
6. During periods of construction inactivity, the difference in elevation between lanes shall not exceed 1–1/2 inch.
7. Access to fire hydrants shall be maintained at all times.
8. During periods of construction inactivity, place cones/drums 3′ from existing edge of pavement (travelway) as directed by the Engineer.
9. Channelizing devices in work areas shall be spaced not greater than 50′ on center in tangent areas, 45′ on center in tapers, and 10′ on center in radii, and shall be set 3′ off the edge of travelway, unless otherwise indicated on plans.
10. Contractor to install Erosion Control devices as directed by the Engineer.
11. Provide blockouts in concrete islands as well as coring asphalt for sign installation. Core asphalt a minimum of 42" or per 904.50 sht 2 of 2.
12. The contractor shall be responsible for the permanent staking of all Proposed Right of Way, Control of Access and Drainage Easements Per NCDOT Division 6 Special Provision in the contract.
13. Contractor shall provide driveway turnouts at all soil or gravel drives as directed by the Engineer.

*****SIGNING WILL BE INCIDENTAL TO THE PROJECT******
THE CONTRACTOR IS RESPONSIBLE FOR RELOCATING,REMOVING, REPLACING,OR INSTALLING SIGNS AS DIRECTED BY THE ENGINEER. THERE WILL BE NO DIRECT PAY FOR THE RELOCATION,REMOVAL, REPLACEMENT,OR INSTALLATION OF SIGNS.

CONTRACTOR SHALL COORDINATE WITH LOCAL TRAFFIC SERVICES UNIT FOR SIGNS, AND PLACEMENT OF ALL PAVEMENT MARKINGS.

FOR SIGNS AND PAVEMENT MARKINGS,CONTACT TRAFFIC SERVICES 910-364-0606,14 DAYS PRIOR TO FINAL PLACEMENT.

COMPUTED BY: ALEX HENDERSON DATE: JUNE 14, 2017
CHECKED BY: DATE:

PROJECT REFERENCE NO.	SHEET NO.
R-5848	3B-1

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK

IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
-L- 14+15.00 TO 41+40.00	2,659		1,590		1,069
SHOULDER BORROW			925		-925
TOTALS	2,659		2,515		144
SAY	2,660		2,515		145

NOTE: Approximate quantities only. Grading will be paid as Lump Sum. See Special Provision.

DIV6-274441

COMPUTED BY: Alex Henderson DATE: 6/14/2017

CHECKED BY: DATE:

PROJECT NO.	SHEET NO.
R-5848	3D-1

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
G.D.I.(N.S.)	(NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX

STATION	LOCATION (LT, RT, OR CL)	STRUCTURE NO.		TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	SIDE DRAIN PIPE (RCP, CSP, CAAP, HDPE, or PVC)								DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	C.S. PIPE								R.C. PIPE CLASS III								R.C. PIPE CLASS IV								** " R.C. PIPE (CLASS V)	***" RC PIPE CULVERTS, CONTRACTOR DESIGN	***" RC PIPE CULVERTS, CONTRACTOR DESIGN	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YARDS		QUANTITIES FOR DRAINAGE STRUCTURES	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') LIN. FT.		C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE			CONCRETE TRANSITIONAL SECTION		D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATE STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR 840.26	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. TYPE "D" STD. 840.19 OR 840.28	G.D.I. FRAME WITH GRATE STD. 840.20	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	T.B.J.B. STD. 840.34	M.H. FRAME AND COVER STD. 840.54	ADJUST J.B.	T.B.D.I. STD. 840.35		CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	CONC. COLLARS CL. "B" C.Y. STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
SIZE		FROM	TO					12"	15"	18"	24"	30"	36"	42"	48"					12"	15"	18"	24"	30"	36"	42"	48"	12"	15"	18"	24"	30"	36"	42"	48"	12"	15"	18"	24"	30"	36"	42"	48"				R.C.P.	C.S.P.	PER EACH (0' THRU 5.0')	A 5.0' THRU 10.0'	B 10.0' AND ABOVE		E	F	G	DROP INLET	CATCH BASIN																		
THICKNESS OR GAUGE																				.064	.064	.064	.064	.079	.079	.109	.109																																																
-L- 16+34.24	LT	401			165.76	165.61			48								X	X	X																																																								53	REMOVE EXIST 18" RCP
-L- 18+28.79	LT	402			164.94	164.85			32								X	X	X																																																								21	REMOVE EXIST 15" RCP
-L- 19+27.85	LT	403			164.42	164.00			32								X	X	X																																																								21	REMOVE EXIST 15" RCP
-L- 20+26.00	LT	404			162.76	162.25			32								X	X	X																																																								22	REMOVE EXIST 15" RCP
-L- 21+00.64	LT	405			162.11	161.86																																80																																						53	REMOVE EXIST 18" RCP
-L- 22+35.79	LT	406			161.00	160.95																									8																																												0.5526		COLLAR AND EXTEND EXIST 24" PIPE
-L- 23+52.82	LT	407			161.21	161.30			32								X	X	X																																																								20	REMOVE EXIST 15" RCP
-L- 25+52.26	LT	408			161.72	161.96																															64																																							52	REMOVE EXIST 15" RCP
-L- 26+50.00	RT	409			161.38	161.52			48								X	X	X																																																								42	REMOVE EXIST 18" RCP
-L- 27+75.67	LT	501			162.78	162.88			24								X	X	X																																																								13	REMOVE EXIST 18" RCP
-L-28+22.10	LT	502			162.97	163.11			32								X	X	X																																																							25	REMOVE EXIST 18" RCP
-L- 29+04.36	LT	503			163.34	163.50			32								X	X	X																																																							25	REMOVE EXIST 15" RCP
-L- 30+42.58	LT	504			163.98	164.13			32								X	X	X																																																							25	REMOVE EXIST 15" RCP
-L- 35+49.26	RT	505			162.48	162.75																																16																																					0.4465		COLLAR AND EXTEND 18" PIPE
PROJECT TOTALS									344		0																				8						64	96											0														0		0			0	0					0.9991	372	

PROJECT REFERENCE NO.	SHEET NO.
R-5848	4

REVISIONS

REV.1 4-10-2017 MODIFIED PROPOSED ROW ON PARCEL 2 IN ORDER TO AVOID CONFLICT WITH EXISTING PROPERTY CORNER

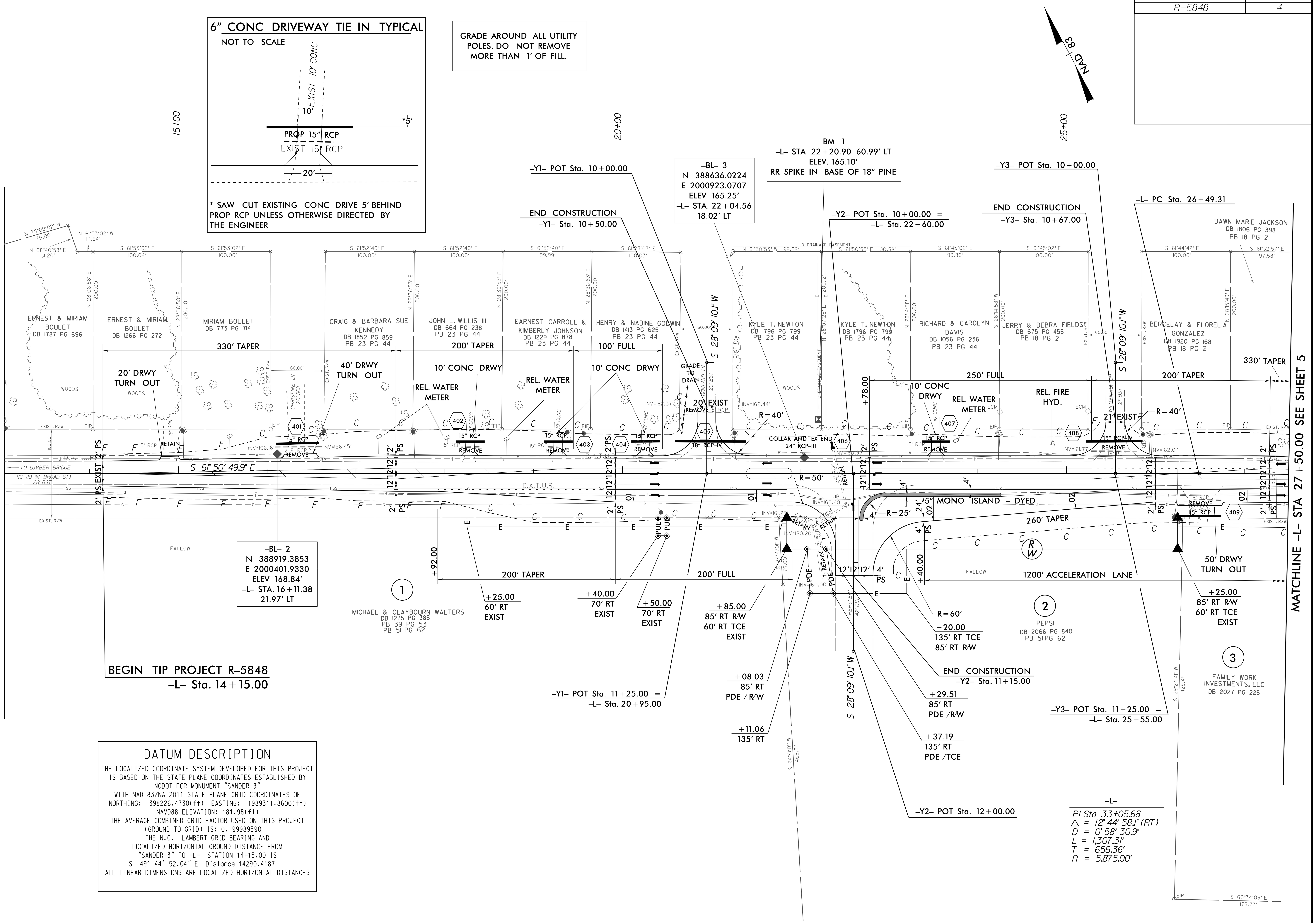
8/17/99

6" CONC DRIVEWAY TIE IN TYPICAL

NOT TO SCALE

* SAW CUT EXISTING CONC DRIVE 5' BEHIND PROP RCP UNLESS OTHERWISE DIRECTED BY THE ENGINEER

GRADE AROUND ALL UTILITY POLES. DO NOT REMOVE MORE THAN 1' OF FILL.



EXIST 10' CONC
10'
*5'
PROP 15" RCP
EXIST 15" RCP
20'
NAD 83
15+00
20+00
25+00
-Y1- POT Sta. 10+00.00
-BL- 3
N 388636.0224
E 2000923.0707
ELEV 165.25'
-L- STA. 22+04.56
18.02' LT
BM 1
-L- STA 22+20.90 60.99' LT
ELEV. 165.10'
RR SPIKE IN BASE OF 18" PINE
-Y3- POT Sta. 10+00.00
END CONSTRUCTION
-Y1- Sta. 10+50.00
-Y2- POT Sta. 10+00.00 =
-L- Sta. 22+60.00
END CONSTRUCTION
-Y3- Sta. 10+67.00
-L- PC Sta. 26+49.31
DAWN MARIE JACKSON
DB 1806 PG 398
PB 18 PG 2
ERNEST & MIRIAM BOULET
DB 1787 PG 696
ERNEST & MIRIAM BOULET
DB 1266 PG 272
MIRIAM BOULET
DB 773 PG 714
CRAIG & BARBARA SUE KENNEDY
DB 1852 PG 859
PB 23 PG 44
JOHN L. WILLIS III
DB 664 PG 238
PB 23 PG 44
EARNEST CARROLL & KIMBERLY JOHNSON
DB 1229 PG 878
PB 23 PG 44
HENRY & NADINE GODWIN
DB 1413 PG 625
PB 23 PG 44
KYLE T. NEWTON
DB 1796 PG 799
PB 23 PG 44
KYLE T. NEWTON
DB 1796 PG 799
PB 23 PG 44
RICHARD & CAROLYN DAVIS
DB 1056 PG 236
PB 23 PG 44
JERRY & DEBRA FIELDS
DB 675 PG 455
PB 18 PG 2
BERCELAY & FLORELIA GONZALEZ
DB 1920 PG 168
PB 18 PG 2
330' TAPER
200' TAPER
100' FULL
250' FULL
200' TAPER
330' TAPER
20' DRWY TURN OUT
40' DRWY TURN OUT
10' CONC DRWY
REL. WATER METER
REL. WATER METER
10' CONC DRWY
GRADE TO DRAIN
20' EXIST
R=40'
+78.00
10' CONC DRWY
REL. WATER METER
REL. FIRE HYD.
21' EXIST
R=40'
COLLAR AND EXTEND 24" RCP-III
18" RCP-IV
15" RCP REMOVE
401
402
403
404
405
406
407
408
409
S 61° 50' 49.9" E
TO LUMBER BRIDGE
NC 20 (W BROAD ST) 26' BST
R=50'
R=25'
5" MONO ISLAND - DYED
260' TAPER
1200' ACCELERATION LANE
50' DRWY TURN OUT
S 28° 09' 10.1" W
-BL- 2
N 388919.3853
E 2000401.9330
ELEV 168.84'
-L- STA. 16+11.38
21.97' LT
+92.00
200' TAPER
200' FULL
+25.00
60' RT
EXIST
+40.00
70' RT
EXIST
+50.00
70' RT
EXIST
+85.00
85' RT R/W
60' RT TCE
EXIST
+40.00
R=60'
+20.00
135' RT TCE
85' RT R/W
+25.00
85' RT R/W
60' RT TCE
EXIST
1
MICHAEL & CLAYBOURN WALTERS
DB 1275 PG 388
PB 39 PG 53
PB 51 PG 62
2
PEPSI
DB 2066 PG 840
PB 51 PG 62
3
FAMILY WORK INVESTMENTS, LLC
DB 2027 PG 225
BEGIN TIP PROJECT R-5848
-L- Sta. 14+15.00
-Y1- POT Sta. 11+25.00 =
-L- Sta. 20+95.00
+08.03
85' RT
PDE / R/W
+11.06
135' RT
END CONSTRUCTION
-Y2- Sta. 11+15.00
+29.51
85' RT
PDE / R/W
+37.19
135' RT
PDE / TCE
-Y2- POT Sta. 12+00.00
-Y3- POT Sta. 11+25.00 =
-L- Sta. 25+55.00
MATCHLINE -L- STA 27+50.00 SEE SHEET 5
FALLOW
WOODS

-L-
PI Sta 33+05.68
Δ = 12° 44' 58.1" (RT)
D = 0° 58' 30.9"
L = 1,307.31'
T = 656.36'
R = 5,875.00'

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "SANDER-3"
WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 398226.4730(ft) EASTING: 1989311.8600(ft)
NAVD88 ELEVATION: 181.98(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0. 99989590
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "SANDER-3" TO -L- STATION 14+15.00 IS
S 49° 44' 52.04" E Distance 14290.4187
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES

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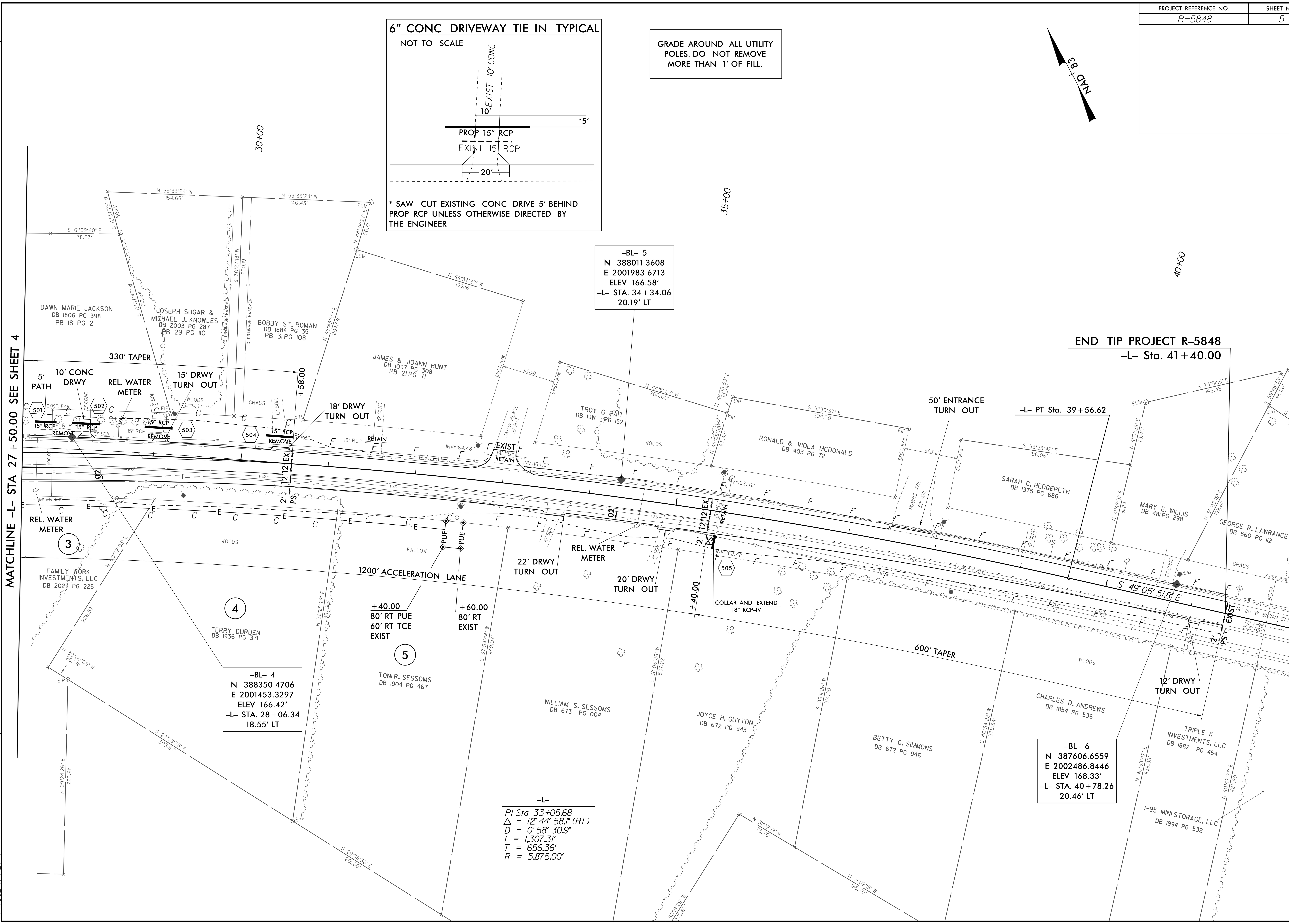
PROJECT REFERENCE NO.	SHEET NO.
R-5848	5

GRADE AROUND ALL UTILITY POLES. DO NOT REMOVE MORE THAN 1' OF FILL.



6" CONC DRIVEWAY TIE IN TYPICAL
NOT TO SCALE
EXIST 10' CONC
10'
*5'
PROP 15" RCP
EXIST 15" RCP
20'
* SAW CUT EXISTING CONC DRIVE 5' BEHIND PROP RCP UNLESS OTHERWISE DIRECTED BY THE ENGINEER
NAD 83
MATCHLINE -L- STA 27+50.00 SEE SHEET 4
30+00
35+00
40+00
DAWN MARIE JACKSON
DB 1806 PG 398
PB 18 PG 2
JOSEPH SUGAR & MICHAEL J. KNOWLES
DB 2003 PG 287
PB 29 PG 110
BOBBY ST. ROMAN
DB 1884 PG 35
PB 31 PG 108
JAMES & JOANN HUNT
DB 1097 PG 308
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TROY G PAIT
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RONALD & VIOLA MCDONALD
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BETTY G. SIMMONS
DB 672 PG 946
CHARLES D. ANDREWS
DB 1854 PG 536
TRIPLE K INVESTMENTS, LLC
DB 1882 PG 454
I-95 MINI STORAGE, LLC
DB 1994 PG 532
330' TAPER
5' PATH
10' CONC DRWY
REL. WATER METER
15' DRWY TURN OUT
+58.00
18' DRWY TURN OUT
15" RCP REMOVE
RETAIN
EXIST
22' DRWY TURN OUT
REL. WATER METER
20' DRWY TURN OUT
COLLAR AND EXTEND 18" RCP-IV
+40.00
50' ENTRANCE TURN OUT
-L- PT Sta. 39+56.62
END TIP PROJECT R-5848
-L- Sta. 41+40.00
S 49° 05' 51.8" E
12' DRWY TURN OUT
600' TAPER
1200' ACCELERATION LANE
+40.00
80' RT PUE
60' RT TCE
EXIST
+60.00
80' RT
EXIST
REL. WATER METER
-BL- 4
N 388350.4706
E 2001453.3297
ELEV 166.42'
-L- STA. 28+06.34
18.55' LT
-BL- 5
N 388011.3608
E 2001983.6713
ELEV 166.58'
-L- STA. 34+34.06
20.19' LT
-BL- 6
N 387606.6559
E 2002486.8446
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20.46' LT
-L-
PI Sta 33+05.68
Δ = 12° 44' 58.1" (RT)
D = 0° 58' 30.9"
L = 1,307.31'
T = 656.36'
R = 5,875.00'
501
502
503
504
505
3
4
5
WOODS
FALLOW
GRASS

REVISIONS
REV. 5-15-2017 PUE ON PARCEL 4 DELETED, INCREASED PUE ON PARCEL 5 TO ALLOW FOR 30' GUY
8/17/99
Pepsi Plant\Roadway\Proj\R-5848_Rdy_psh_5.dgn
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R-5848 NC 20 RT Turn Lane for Pepsi Plant
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
R–5848	6

BEGIN TIP PROJECT R–5848
–L– STA. 14+15.00 ELEV. = 169.18′

BM 1
–L– STA 22+20.90 60.99′ LT
ELEV. 165.10′
RR SPIKE IN BASE OF 18″ PINE

END TIP PROJECT R–5848
–L– STA. 41+40.00 ELEV. = 169.67′

210 200 190 180 170 160 150 140 130 120

14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00 27+00 28+00

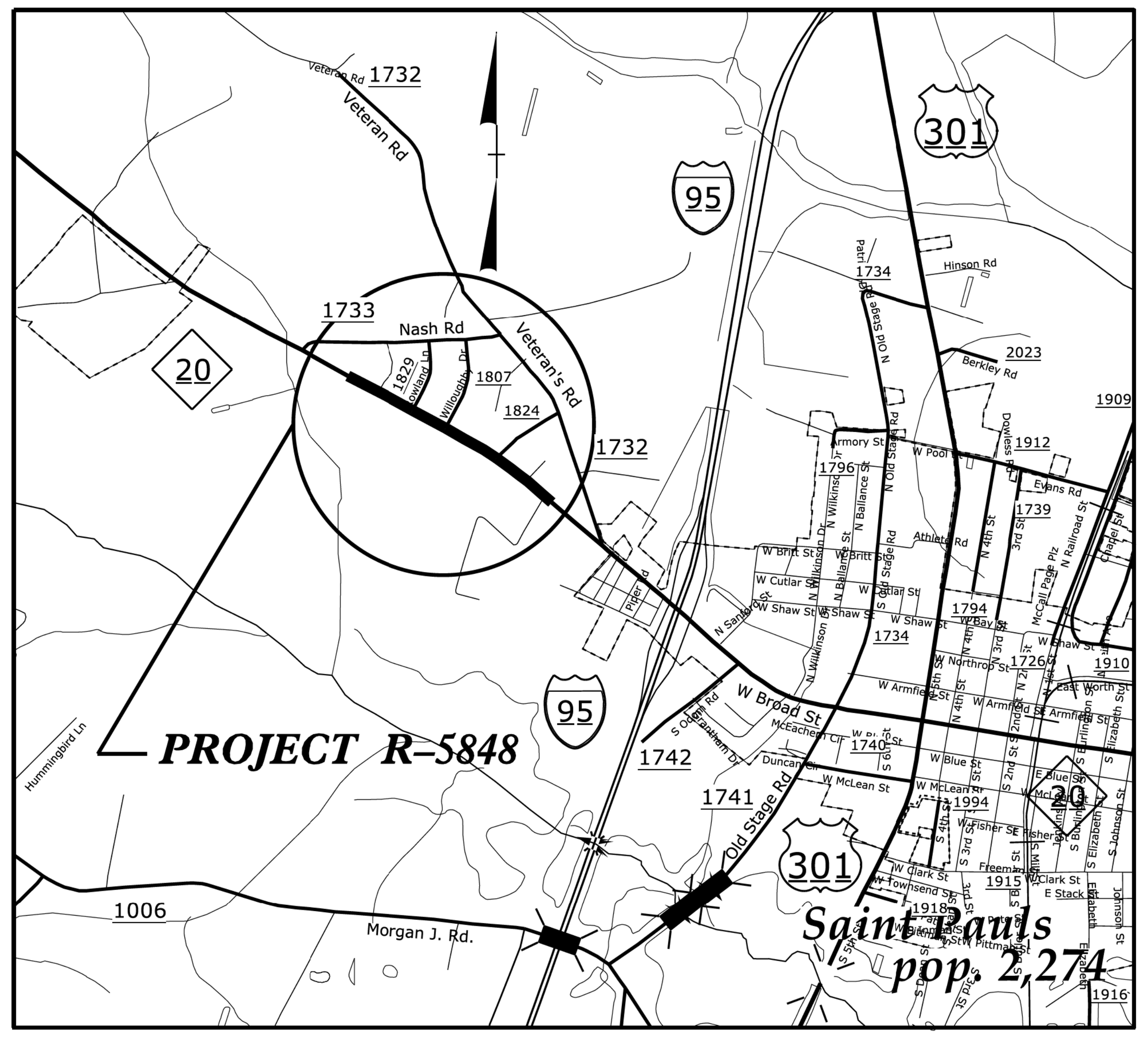
28+00 29+00 30+00 31+00 32+00 33+00 34+00 35+00 36+00 37+00 38+00 39+00 40+00 41+00 42+00

TIP PROJECT: R-5848

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5848	EC-1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
46958.1.1		P.E.	
46958.2.1		ROW/UTIL	
46958.3.1		CONST	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

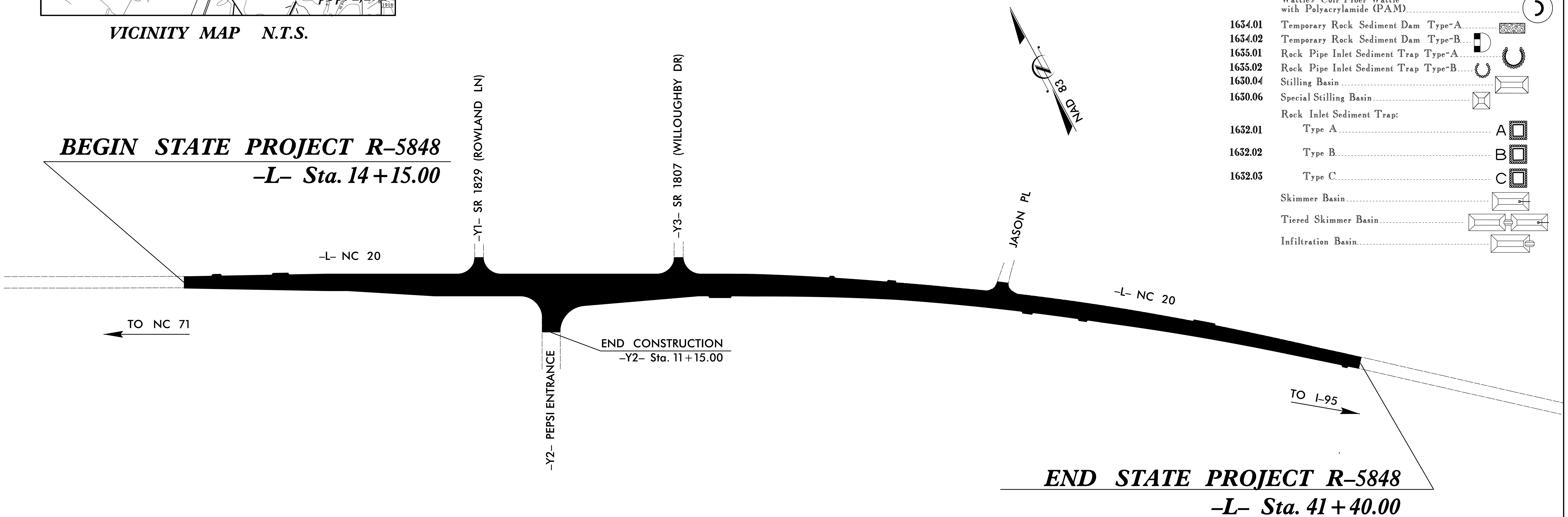
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL



VICINITY MAP N.T.S.

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	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	



GRAPHIC SCALE

50 25 0 50 100

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.

Prepared in the Office of:

DIVISION 6 DDC
431 Transportation Dr.
Fayetteville, NC 28301

2012 STANDARD SPECIFICATIONS

Designed by:

ALEX HENDERSON — 3944
NAME — LEVEL III CERTIFICATION NO.

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 revison 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	Riser 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	1645.01	Temporary Stream Crossing
1631.01	Matting Installation		

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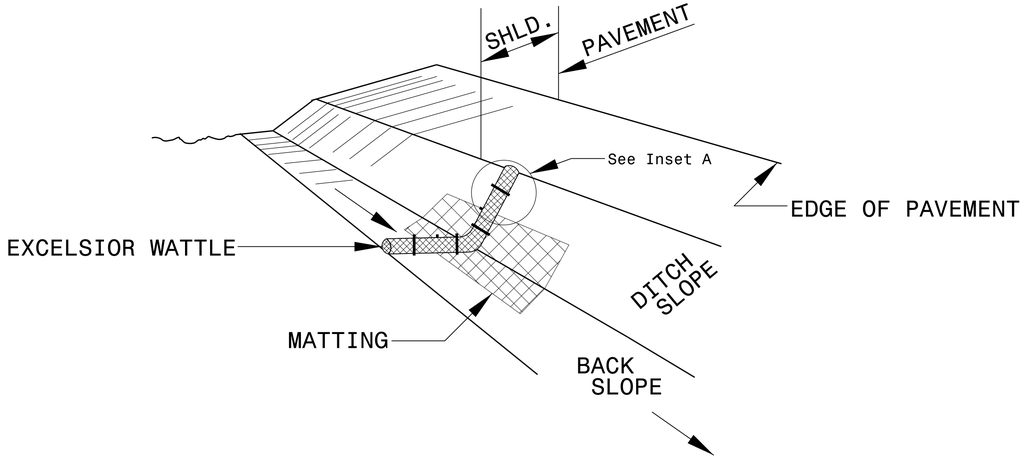
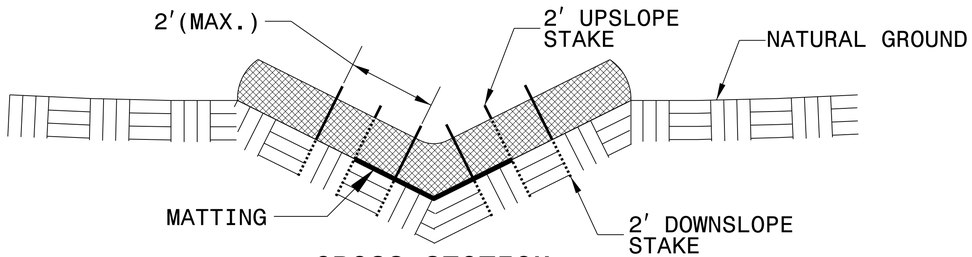
PROJECT REFERENCE NO.	SHEET NO.
R-5848	EC-2

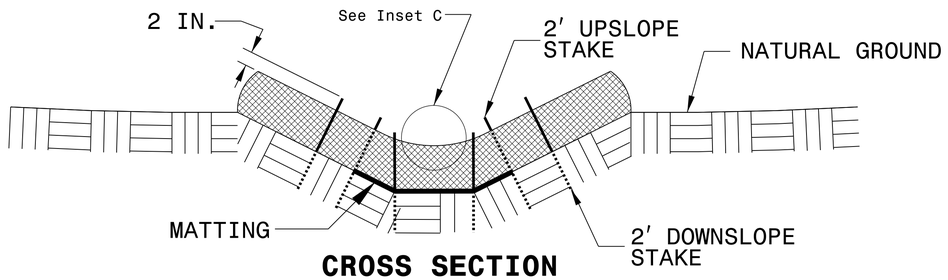
WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



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.

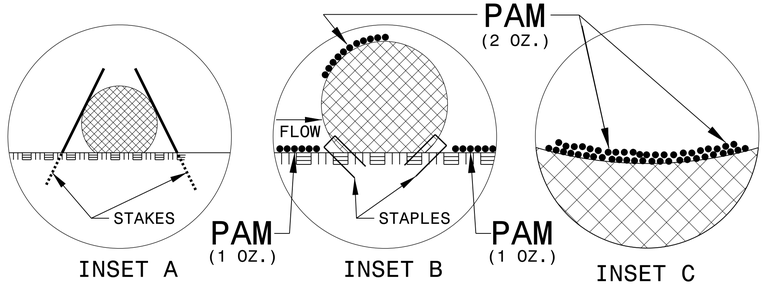
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

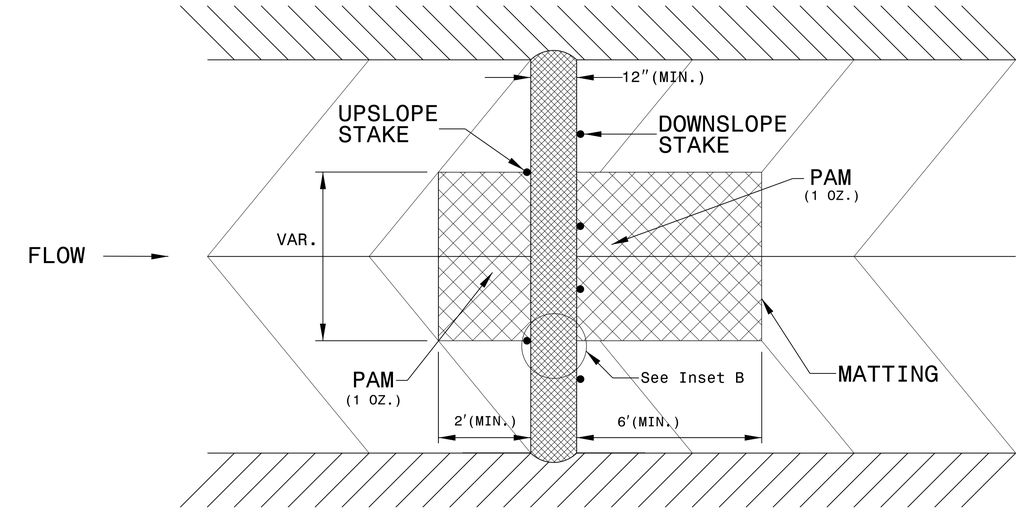
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.





TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
R-5848	EC-3

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) 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 HQW ZONES.

PROJECT REFERENCE NO.	SHEET NO.
R-5848	EC-4

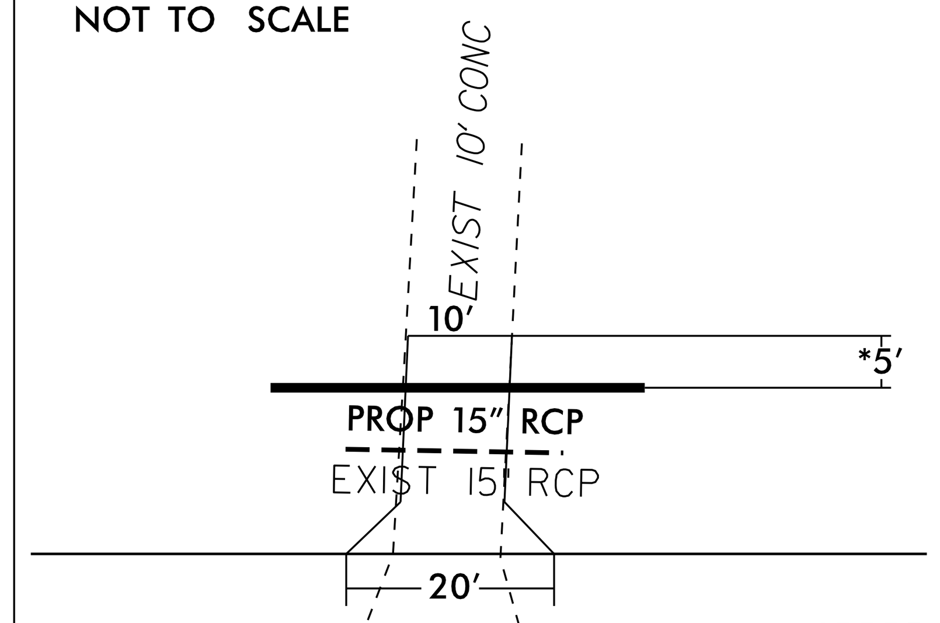
REVISIONS

REV.1 4-10-2017 MODIFIED PROPOSED ROW ON PARCEL 2 IN ORDER TO AVOID CONFLICT WITH EXISTING PROPERTY CORNER

8/17/99

6" CONC DRIVEWAY TIE IN TYPICAL

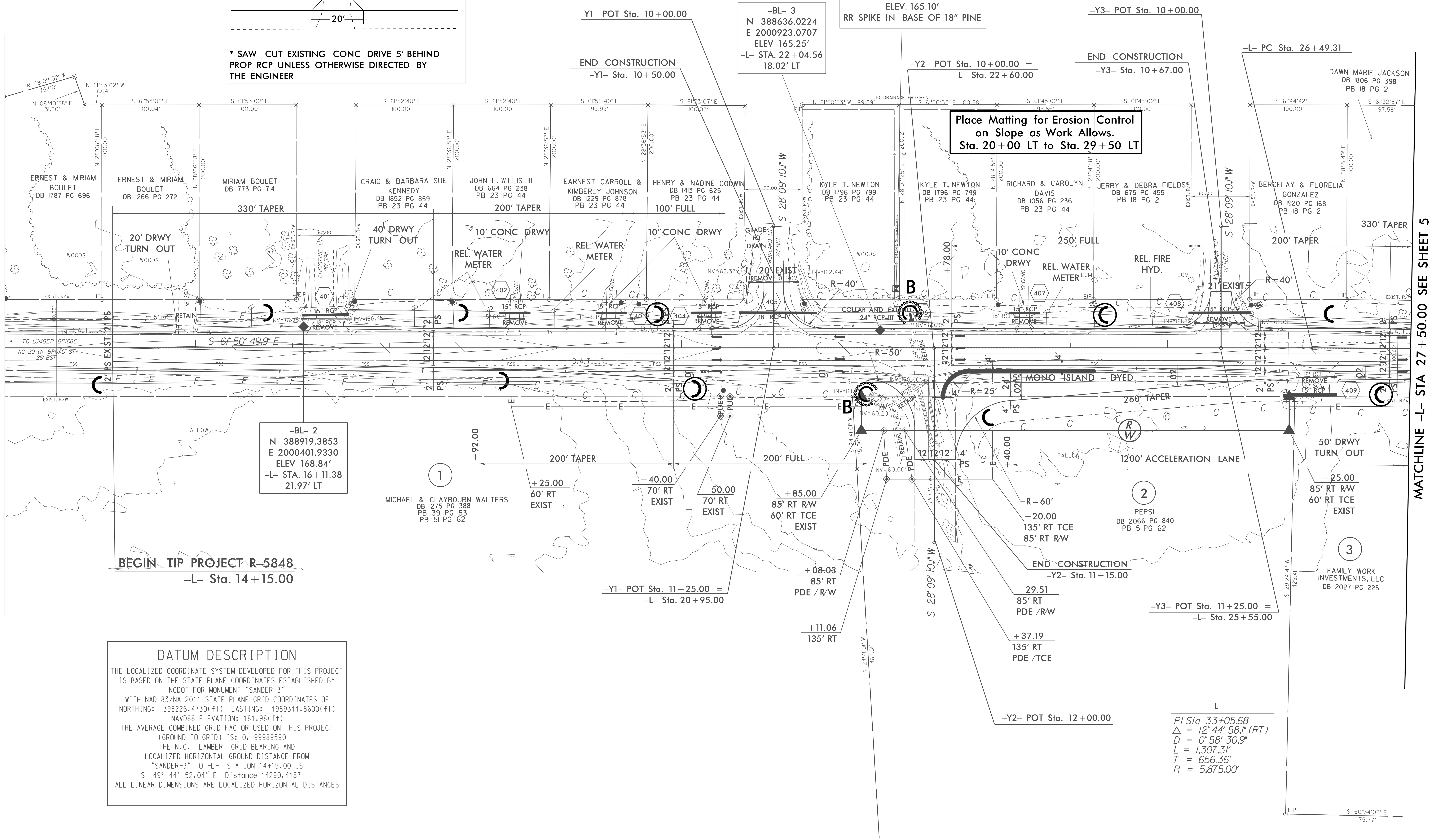
NOT TO SCALE



* SAW CUT EXISTING CONC DRIVE 5' BEHIND PROP RCP UNLESS OTHERWISE DIRECTED BY THE ENGINEER

GRADE AROUND ALL UTILITY POLES. DO NOT REMOVE MORE THAN 1' OF FILL.

Place Matting for Erosion Control on Slope as Work Allows. Sta. 20+00 LT to Sta. 29+50 LT



NAD 83
15+00
20+00
25+00
-BL- 3
N 388636.0224
E 2000923.0707
ELEV 165.25'
-L- STA. 22+04.56
18.02' LT
BM 1
-L- STA 22+20.90 60.99' LT
ELEV. 165.10'
RR SPIKE IN BASE OF 18" PINE
-Y1- POT Sta. 10+00.00
END CONSTRUCTION
-Y1- Sta. 10+50.00
-Y2- POT Sta. 10+00.00 =
-L- Sta. 22+60.00
-Y3- POT Sta. 10+00.00
END CONSTRUCTION
-Y3- Sta. 10+67.00
-L- PC Sta. 26+49.31
DAWN MARIE JACKSON
DB 1806 PG 398
PB 18 PG 2
ERNEST & MIRIAM BOULET
DB 1787 PG 696
ERNEST & MIRIAM BOULET
DB 1266 PG 272
MIRIAM BOULET
DB 773 PG 714
CRAIG & BARBARA SUE KENNEDY
DB 1852 PG 859
PB 23 PG 44
JOHN L. WILLIS III
DB 664 PG 238
PB 23 PG 44
EARNEST CARROLL & KIMBERLY JOHNSON
DB 1229 PG 878
PB 23 PG 44
HENRY & NADINE GODWIN
DB 1413 PG 625
PB 23 PG 44
KYLE T. NEWTON
DB 1796 PG 799
PB 23 PG 44
KYLE T. NEWTON
DB 1796 PG 799
PB 23 PG 44
RICHARD & CAROLYN DAVIS
DB 1056 PG 236
PB 23 PG 44
JERRY & DEBRA FIELDS
DB 675 PG 455
PB 18 PG 2
BERCELAY & FLORELIA GONZALEZ
DB 1920 PG 168
PB 18 PG 2
330' TAPER
200' TAPER
100' FULL
250' FULL
200' TAPER
330' TAPER
20' DRWY TURN OUT
40' DRWY TURN OUT
10' CONC DRWY
REL. WATER METER
REL. WATER METER
10' CONC DRWY
GRADE TO DRAIN
20' EXIST
10' CONC DRWY
REL. WATER METER
REL. FIRE HYD.
21' EXIST
R=40'
R=40'
WOODS
S 61°50' 49.9" E
TO LUMBER BRIDGE
NC 20 (W BROAD ST)
COLLAR AND EXIST
24" RCP-III
R=50'
R=25'
4' MONO ISLAND - DYED
260' TAPER
-BL- 2
N 388919.3853
E 2000401.9330
ELEV 168.84'
-L- STA. 16+11.38
21.97' LT
+92.00
200' TAPER
200' FULL
1200' ACCELERATION LANE
50' DRWY TURN OUT
+25.00
60' RT
EXIST
+40.00
70' RT
EXIST
+50.00
70' RT
EXIST
+85.00
85' RT R/W
60' RT TCE
EXIST
R=60'
+20.00
135' RT TCE
85' RT R/W
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85' RT R/W
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PB 39 PG 53
PB 51 PG 62
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PEPSI
DB 2066 PG 840
PB 51 PG 62
3
FAMILY WORK INVESTMENTS, LLC
DB 2027 PG 225
FALLOW
S 28°09' 10.1" W
BEGIN TIP PROJECT R-5848
-L- Sta. 14+15.00
END CONSTRUCTION
-Y2- Sta. 11+15.00
+08.03
85' RT
PDE / R/W
-Y1- POT Sta. 11+25.00 =
-L- Sta. 20+95.00
+29.51
85' RT
PDE / R/W
+11.06
135' RT
+37.19
135' RT
PDE / TCE
-Y3- POT Sta. 11+25.00 =
-L- Sta. 25+55.00
-Y2- POT Sta. 12+00.00
MATCHLINE -L- STA 27+50.00 SEE SHEET 5

-L-

PI Sta 33+05.68

Δ = 12° 44' 58.1" (RT)

D = 0° 58' 30.9"

L = 1,307.31'

T = 656.36'

R = 5,875.00'

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S 49° 44' 52.04" E Distance 14290.4187

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES

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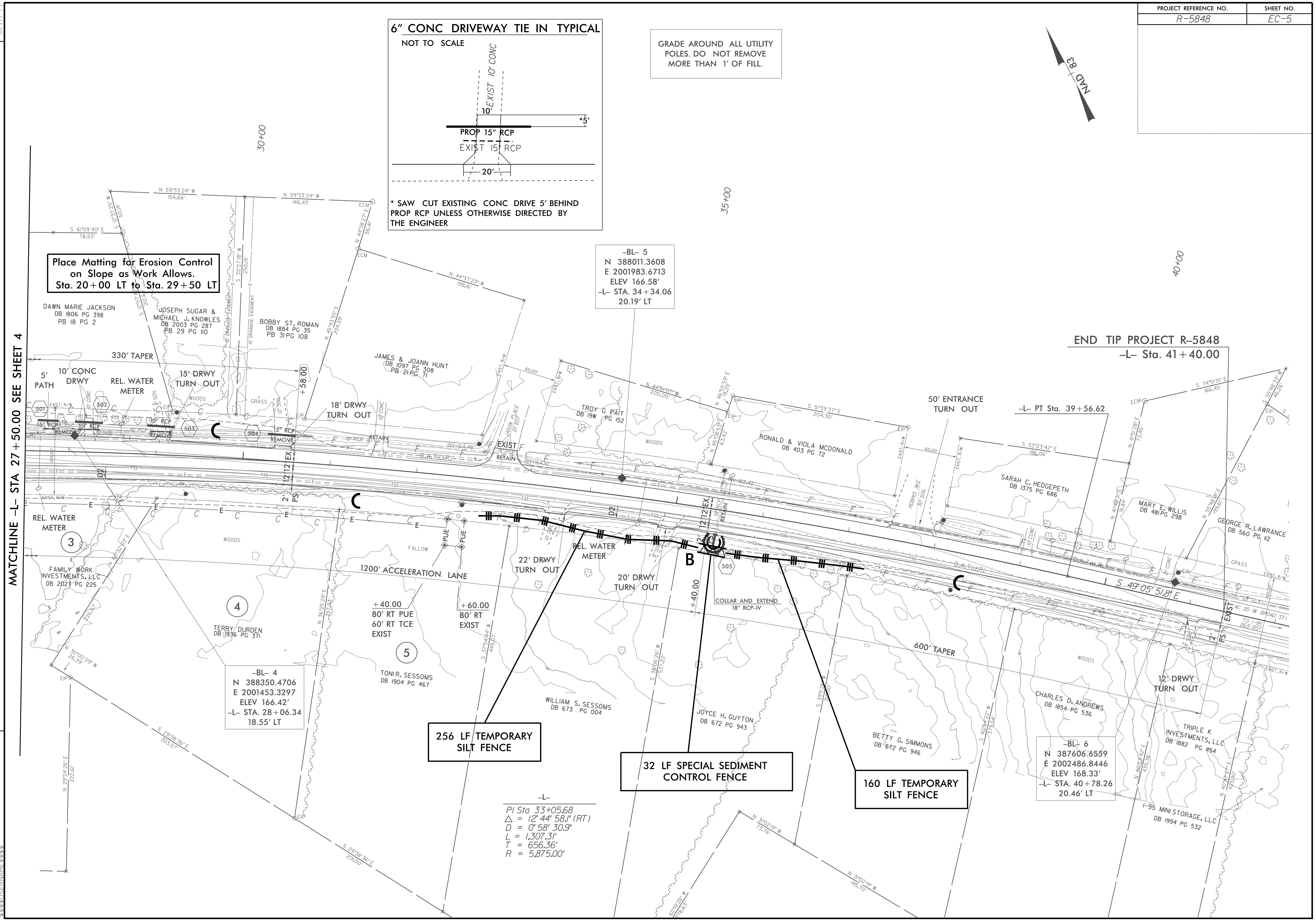
REVISIONS

REV. 5-15-2017 PUE ON PARCEL 4 DELETED,INCREASED PUE ON PARCEL 5 TO ALLOW FOR 30' GUY



PROJECT REFERENCE NO. R-5848
SHEET NO. EC-5
6" CONC DRIVEWAY TIE IN TYPICAL
NOT TO SCALE
EXIST 10' CONC
10'
*5'
PROP 15" RCP
EXIST 15" RCP
20'
* SAW CUT EXISTING CONC DRIVE 5' BEHIND PROP RCP UNLESS OTHERWISE DIRECTED BY THE ENGINEER
GRADE AROUND ALL UTILITY POLES. DO NOT REMOVE MORE THAN 1' OF FILL.
NAD 83
30+00
35+00
40+00
Place Matting for Erosion Control on Slope as Work Allows. Sta. 20+00 LT to Sta. 29+50 LT
MATCHLINE -L- STA 27+50.00 SEE SHEET 4
-BL- 5
N 388011.3608
E 2001983.6713
ELEV 166.58'
-L- STA. 34+34.06
20.19' LT
END TIP PROJECT R-5848
-L- Sta. 41+40.00
DAWN MARIE JACKSON
DB 1806 PG 398
PB 18 PG 2
JOSEPH SUGAR & MICHAEL J. KNOWLES
DB 2003 PG 287
PB 29 PG 110
BOBBY ST. ROMAN
DB 1884 PG 35
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JAMES & JOANN HUNT
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PB 21 PG 71
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RONALD & VIOLA MCDONALD
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DB 1375 PG 686
MARY E. WILLIS
DB 481 PG 298
GEORGE R. LAWRANCE
DB 560 PG 112
330' TAPER
5' PATH
10' CONC DRWY
REL. WATER METER
15' DRWY TURN OUT
18' DRWY TURN OUT
50' ENTRANCE TURN OUT
-L- PT Sta. 39+56.62
+58.00
REL. WATER METER
3
FAMILY WORK INVESTMENTS, LLC
DB 2021 PG 225
4
TERRY DURDEN
DB 1936 PG 371
1200' ACCELERATION LANE
22' DRWY TURN OUT
20' DRWY TURN OUT
+40.00
80' RT PUE
60' RT TCE
EXIST
+60.00
80' RT
EXIST
5
TONI R. SESSOMS
DB 1904 PG 467
-BL- 4
N 388350.4706
E 2001453.3297
ELEV 166.42'
-L- STA. 28+06.34
18.55' LT
WILLIAM S. SESSOMS
DB 673 PG 004
JOYCE H. GUYTON
DB 672 PG 943
COLLAR AND EXTEND 18" RCP-IV
600' TAPER
S 49°05'51.8" E
BETTY G. SIMMONS
DB 672 PG 946
CHARLES D. ANDREWS
DB 1854 PG 536
12' DRWY TURN OUT
TRIPLE K INVESTMENTS, LLC
DB 1882 PG 454
-BL- 6
N 387606.6559
E 2002486.8446
ELEV 168.33'
-L- STA. 40+78.26
20.46' LT
I-95 MINI STORAGE, LLC
DB 1994 PG 532
256 LF TEMPORARY SILT FENCE
32 LF SPECIAL SEDIMENT CONTROL FENCE
160 LF TEMPORARY SILT FENCE
-L-
PI Sta 33+05.68
Δ = 12° 44' 58.1" (RT)
D = 0° 58' 30.9"
L = 1,307.31'
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$$$$USERNAME$$$$

6/23/16

PROJ. REFERENCE NO.	SHEET NO.
R-5848	X-1

19-JUN-2017 07:59
H:\DDC\Projects\R-5848 NC 20 RT Turn Lane for Pepsi Plant\Roadway\XSC\R-5848_Rdy_xpl_L.dgn
$$$$USERNAME$$$$

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5848	X-2

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

175 / 170 / 165

S.S. 168.63 — 3:1 — 4:1 — 164.56

MATCH EXIST — MATCH EXIST

167.85

19 + 00.00

4:1 — 3:1 — S.S. 168.63 — 164.42

S.S. 169.50 — 3:1 — 4:1 — 164.84

168.09

18 + 50.00

4:1 — 3:1 — S.S. 169.25 — 166.05

S.S. 169.79 — 3:1 — 4:1 — 164.97

168.25

18 + 00.00

4:1 — S.S. 166.37

S.S. 169.33 — 3:1 — 4:1 — 165.12

168.49

17 + 50.00

4:1 — S.S. 166.48

S.S. 169.42 — 3:1 — 4:1 — 165.39

168.78

17 + 00.00

4:1 — S.S. 166.63

MATCH EXIST — MATCH EXIST

S.S. 168.44 — 3:1 — 4:1 — 165.63 — 15" RCP

169.01

16 + 50.00

4:1 — S.S. 167.58 — 167.45

160

6/23/16

0 2.5 5
PROJ. REFERENCE NO.
R-5848
SHEET NO.
X-3
MATCH EXIST
MATCH EXIST TO EOT
0.010
S.S. 163.46
3:1
3:1
161.68
166.09
10:1
S.S. 163.53
22+00.00
0.010
S.S. 163.56
3:1
3:1
161.83
166.31
3:1
3:1
S.S. 163.62
161.99
21+50.00
-Y1-
MATCH EXIST
MATCH EXIST TO EOT
0.010
18" RCP CL IV
166.65
3.5:1
3:1
S.S. 163.77
162.80
21+00.00
0.010
S.S. 164.59
3:1
2.5:1
162.13
166.95
4:1
3:1
S.S. 164.66
163.57
20+50.00
MATCH EXIST TO EOT
0.010
S.S. 165.56
3:1
3:1
162.92
167.24
4:1
3:1
S.S. 165.92
163.83
20+00.00
S.S. 166.92
MATCH EXIST
MATCH EXIST
3:1
3.5:1
163.93
167.55
4:1
3:1
S.S. 167.25
164.02
19+50.00
-L-

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6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5848	X-4

MATCH EXIST

MATCH EXIST TO EOT

S.S. 163.21 3:1 3:1 161.51

165.38

24+50.00

0.020

3.5:1 3:1 S.S. 162.94 161.00

S.S. 163.38 3:1 3:1 161.38

165.37

24+00.00

0.020

3.5:1 3:1 S.S. 162.70 160.90

5′

6" CONC DRIVEWAY

0.0554

S.S. 163.97 3:1 3:1 161.25

15" RCP

165.43

23+50.00

0.020

3.5:1 3:1 S.S. 162.82 160.80

–Y2–

S.S. 163.28 3:1 2.5:1 161.15

165.63

23+00.00

0.010

–Y2–

MATCH EXIST

MATCH EXIST TO EOT

S.S. 163.87 3:1 2.5:1 161.05

165.87

22+50.00

0.010

–L–

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$$$$USERNAME$$$$
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6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5848	X-5

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

170 / 165 / 160

S.S. 166.11
3:1
2.5:1
162.48
MATCH EXIST
MATCH EXIST TO EOT
166.23
27+00.00
0.020
4:1
3:1
S.S. 164.62
162.17

S.S. 165.65
3:1
3:1
162.25
166.06
26+50.00
0.020
6" STONE DRIVEWAY
0.0402
10'
3:1
3:1
S.S. 163.98
15" RCP
161.45

S.S. 164.52
3:1
3:1
162.02
165.78
26+00.00
0.020
3.5:1
3:1
S.S. 163.48
161.30

180 / 175 / 170 / 165 / 160 / 155

–Y3–
15" RCP CL IV
MATCH EXIST
MATCH EXIST TO EOT
165.57
25+50.00
0.020
3.5:1
3:1
S.S. 163.08
161.20

S.S. 163.43
3:1
3:1
161.64
MATCH EXIST
MATCH EXIST TO EOT
165.42
25+00.00
0.020
3.5:1
3:1
S.S. 163.02
161.10

–L–

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5848	X-6

MATCH EXIST
MATCH EXIST
S.S. 167.00
3:1
3:1
163.86
0.020
4:1
3:1
S.S. 166.80
163.27
167.22
30 + 00.00
S.S. 167.26
3:1
3:1
163.63
0.020
4:1
3:1
S.S. 166.81
163.15
167.16
29 + 50.00
S.S. 166.67
3:1
3:1
15" RCP
163.40
0.020
4:1
3:1
S.S. 166.73
163.03
167.04
29 + 00.00
S.S. 165.68
3:1
2.5:1
163.17
0.020
4:1
3:1
S.S. 165.31
162.74
166.81
28 + 50.00
S.S. 165.61
3:1
3:1
162.94
0.020
4:1
3:1
S.S. 164.70
162.54
166.60
28 + 00.00
MATCH EXIST
MATCH EXIST TO EOT
S.S. 165.81
3:1
3:1
162.71
0.020
4:1
3:1
S.S. 164.72
162.36
166.41
27 + 50.00
-L-

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$$$$USERNAME$$$$

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5848	X-7

-DRIVE-

MATCH EXIST

MATCH EXIST

0.020

4:1

S.S. 165.08

167.29

33+00.00

4:1

S.S. 167.52

0.020

4:1 3:1 S.S. 165.64

164.64

167.37

32+50.00

4:1

S.S. 167.57

0.020

4:1 3:1 S.S. 166.36

163.45

167.41

32+00.00

4:1

S.S. 167.58

0.020

S.S. 166.57

4:1 3:1

163.36

167.37

31+50.00

4:1

S.S. 166.90

165.34

0.020

S.S. 166.95

4:1 3:1

163.34

167.30

31+00.00

S.S. 166.82

3:1 3:1

164.09

15" RCP

MATCH EXIST

MATCH EXIST

0.020

S.S. 167.12

4:1 3:1

163.29

167.27

30+50.00

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5848	X-8

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

170 / 165 / 160

MATCH EXIST

4:1

S.S. 166.57

MATCH EXIST

0.020

4:1

S.S. 163.32

167.24

36 + 00.00

4:1

S.S. 166.37

0.020

4:1

S.S. 163.10

167.13

35 + 50.00

4:1

S.S. 166.37

0.020

4:1

S.S. 164.24

167.15

35 + 00.00

170 / 165 / 175 / 160

4:1

S.S. 166.31

0.020

4:1

S.S. 162.90

167.22

34 + 50.00

4:1

S.S. 166.88

0.020

4:1

S.S. 163.73

167.28

34 + 00.00

MATCH EXIST

4:1

S.S. 166.87

MATCH EXIST

0.020

4:1

S.S. 165.14

167.24

33 + 50.00

—L—

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$$$$USERNAME$$$$

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PROJ. REFERENCE NO.	SHEET NO.
R-5848	X-9

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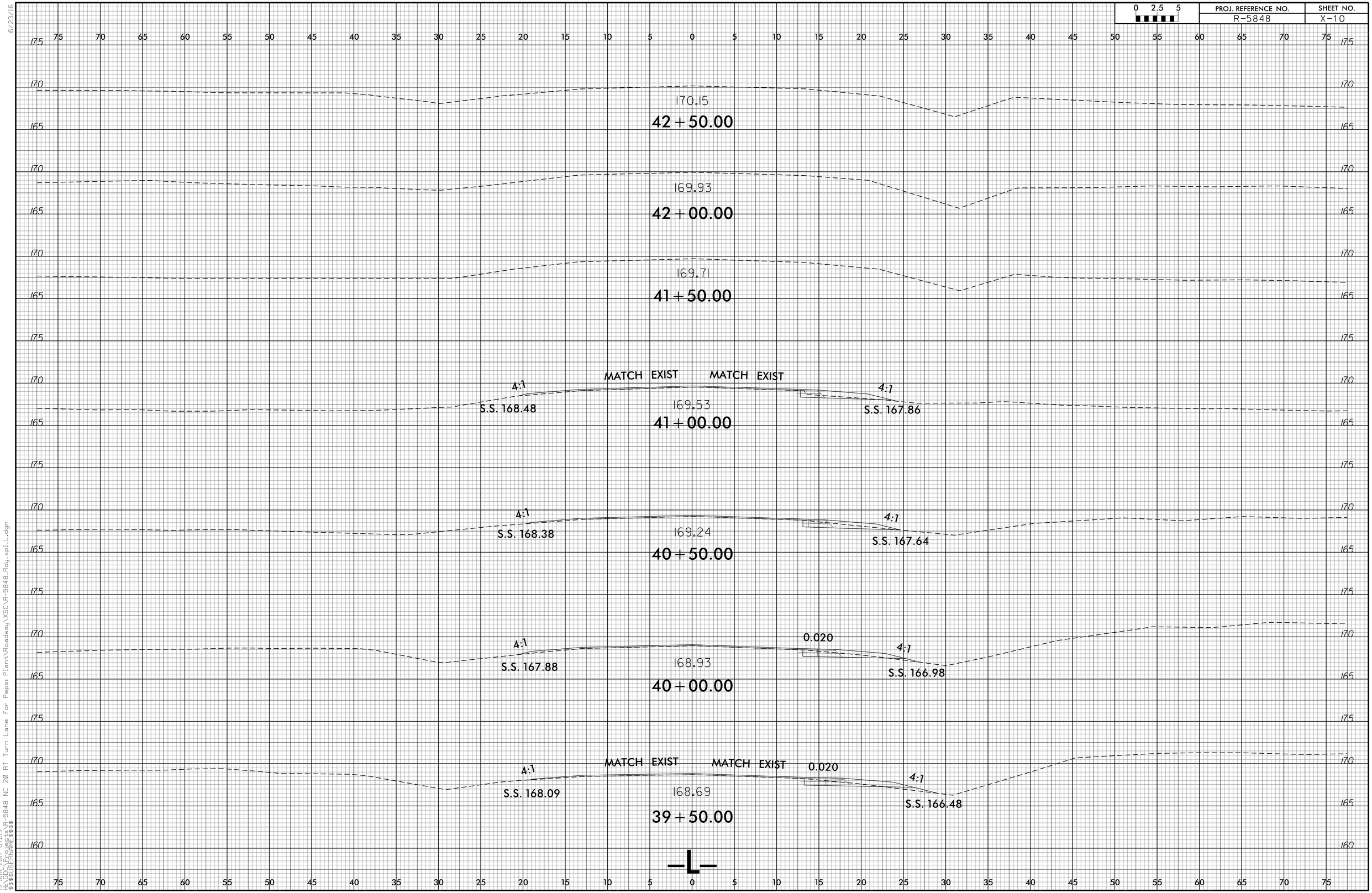
$$$$USERNAME$$$$

6/23/16

0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	R-5848	X-10



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