PROJECT: 35881 / 36272

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.
N.C.	35881 / 36272	1

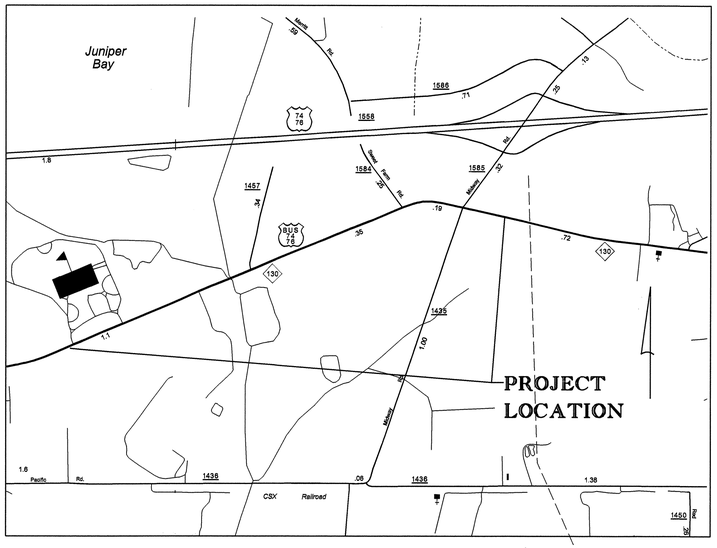
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

COLUMBUS COUNTY

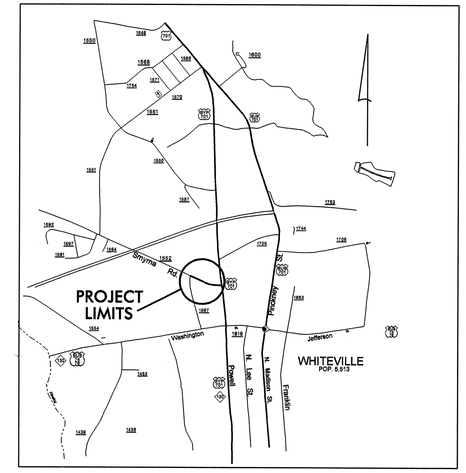
LOCATION: NC 130 FROM SECC TO SR 1435
SR 1552 (SMYRNA RD.) AT US 701 BYP

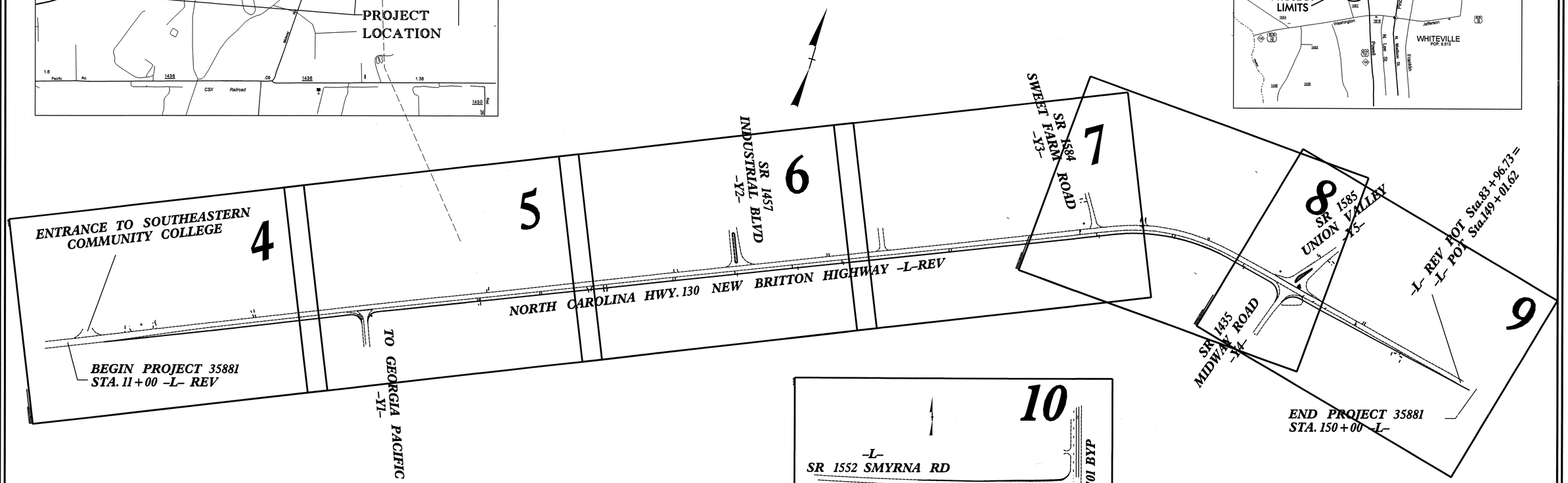
TYPE OF WORK: WIDENING, GRADING, PAVING, DRAINAGE, AND STRUCTURES

VICINITY MAP
Work Order: 35881
State Road Number: NC 130



VICINITY MAP
Work Order: 36272
State Road Number: SR 1552 SMYRNA ROAD





GRAPHIC SCALES

50 25 0 50 100
PLANS

10 5 0 10 20
HORIZ. & VERT. X-SECT

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DIVISION SIX
DEPARTMENT OF TRANSPORTATION
DESIGN/CONSTRUCT UNIT

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT 35881 = 1.4 MILES
LENGTH OF ROADWAY PROJECT 36272 = 0.13 MILES

Prepared in the Office of:

DIVISION SIX, DIVISION DESIGN

2006 STANDARD SPECIFICATIONS

R/W DATE: 6 / 24 / 03

LETTING DATE: 8 / 15 / 06

G.W. BURNS, P.E.
PROJECT ENGINEER

DEBBIE UNDERWOOD
PROJECT DESIGN ENGINEER

$$$$$$$$$$$$$$$$$$$$
$$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$
$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
35881/36272	1-A

GENERAL NOTES
2006 SPECIFICATIONS

GRADE LINE:
GRADING AND SURFACING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED 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.

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. 560.01.

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.

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.

STREET TURNOUT:

STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADII NOTED ON PLANS.

SUBSURFACE PLANS:

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

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

UNDERCUT:

UNIT PRICE WILL INCLUDE BACKFILL MATERIAL AS PER SECTION 226 OF STANDARD SPECIFICATION.

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
2 THRU 2A	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS
3	SUMMARY OF QUANTITIES
3A THRU 3B	SUMMARY OF DRAINAGE QUANTITIES EARTHWORK SUMMARY
4 THRU 10	PLAN SHEET
TCP-1	TRAFFIC CONTROL
SIG-1 THRU SIG-4	SIGNAL PLANS
EC-1 THRU EC-8	EROSION CONTROL PLANS
UC-1 THRU UC-2	UTILITY CONSTRUCTION PLANS
X-1 THRU X-30	CROSS-SECTIONS
C-1 THRU C-4A	CULVERT PLANS CULVERT STANDARD NOTES

2006 ROADWAY STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated July 18, 2006 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
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
225.06	Method of Grading Sight Distance at Intersections
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation - Method 'A'
310.10	Driveway Pipe Construction
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 8 - INCIDENTALS	
806.01	Concrete Right-of-Way Marker
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
840.71	Concrete and Brick Pipe Plug
840.72	Pipe Collar
846.01	Concrete Curb, Gutter and Curb & Gutter
848.02	Driveway Turnout - Radius Type
848.04	Street Turnout
848.05	Wheelchair Ramp - Curb Cut
852.01	Concrete Islands
DIVISION 11 - WORK ZONE TRAFFIC CONTROL	
1101.01	Work Zone Advance Warning Signs
1101.02	Temporary Lane Closures
1101.04	Temporary Shoulder Closures
1101.11	Traffic Control Design Tables
1110.01	Stationary Work Zone Signs - Mounting Height & Lateral Clearance
1110.02	Portable Work Zone Signs - Mounting Height & Lateral Clearance
1115.01	Flashing Arrow Panels
1130.01	Drum
1135.01	Cones
1145.01	Barricades - Type III
1150.01	Flagging Devices
1180.01	Skinny Drum
DIVISION 12 - PAVEMENT MARKINGS, MARKERS AND DELINEATION	
1205.01	Pavement Markings - Line Types and Offsets
1205.04	Pavement Markings - Intersections
1205.05	Pavement Markings - Turn Lanes
1205.08	Pavement Markings - Symbols and Word Messages
1205.09	Pavement Markings - Painted Islands
1250.01	Pavement Marker Spacing
1251.01	Raised Pavement Markers - Permanent and Temporary
DIVISION 15 - UTILITIES	
1525.01	Precast Sanitary Sewer Manholes - 4' and 5' Diameter
1525.05	Precast Concrete and Brick Sanitary Sewer Manhole
DIVISION 16 - EROSION CONTROL AND ROADSIDE DEVELOPMENT	
1605.01	Temporary Silt Fence
1622.01	Guide for Temporary Berms and Slope Drains
1630.03	Temporary Silt Ditch
1630.04	Stilling Basin For Pumped Effluent
1632.03	Rock Inlet Sediment Trap Type 'C'
1633.01	Temporary Rock Silt Check Type 'A'
1634.02	Temporary Rock Sediment Dam Type 'B'
1635.01	Rock Pipe Inlet Sediment Trap Type 'A'
DIVISION 17 - SIGNALS AND TRAFFIC MANAGEMENT SYSTEMS	
1705.01	Signal Heads - Vehicular Signal Heads
1715.01	Underground Conduit - Trenching
1716.01	Junction Boxes
1720.01	Wood Poles
1721.01	Guy Assemblies
1730.01	Fiber-Optic Cable - Spare Cable Storage
1751.01	Controllers and Cabinets - Cabinet and Component Layout
1751.02	Controllers and Cabinet - Power, Ground and Auxiliary

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PROJECT REFERENCE NO.	SHEET NO.
35881/36272	1B

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 — EIP
- 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 High Quality Wetland Boundary — HQ WLB
- Existing Endangered Animal Boundary — EAB
- Existing Endangered Plant Boundary — EPB

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
- River Basin Buffer — RBB
- Flow Arrow
- Disappearing Stream
- Spring
- Swamp Marsh
- Proposed Lateral, Tail, Head Ditch — FLOW
- False Sump

RAILROADS:

- Standard Guage — CSX TRANSPORTATION
- 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
- Proposed Right of Way Line — RW
- Proposed Right of Way Line with Iron Pin and Cap Marker — RW
- Proposed Right of Way Line with Concrete or Granite Marker — RW
- Existing Control of Access — CA
- Proposed Control of Access — CA
- Existing Easement Line — E
- Proposed Temporary Construction Easement — E
- Proposed Temporary Drainage Easement — TDE
- Proposed Permanent Drainage Easement — PDE
- Proposed Permanent Utility Easement — PUE

ROADS AND RELATED FEATURES:

- Existing Edge of Pavement
- Existing Curb
- Proposed Slope Stakes Cut — C
- Proposed Slope Stakes Fill — F
- Proposed Wheel Chair Ramp — WCR
- Curb Cut for Future Wheel Chair Ramp — CCFR
- Existing Metal Guardrail
- Proposed Guardrail
- Existing Cable Guiderail
- Proposed Cable Guiderail
- Equaility 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 — HH
- 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 — T
- Telephone Booth
- Telephone Pedestal — T
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole — HH
- 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 — W
- 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 — C
- TV Tower
- U/G TV Cable Hand Hole — HH
- 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 — S
- Utility Unknown U/G Line — ?UTL
- U/G Tank; Water, Gas, Oil
- A/G Tank; Water, Gas, Oil
- U/G Test Hole (S.U.E.*)
- Abandoned According to Utility Records — AATUR
- End of Information — E.O.I.

PROJ. REFERENCE NO.	SHEET NO.
35881	2

PAVEMENT SCHEDULE

C1	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	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 1½" IN DEPTH.
C3	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
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 2¼" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
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 5½" IN DEPTH.
E3	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL)

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

MILLING AT PAVEMENT TIE-INS

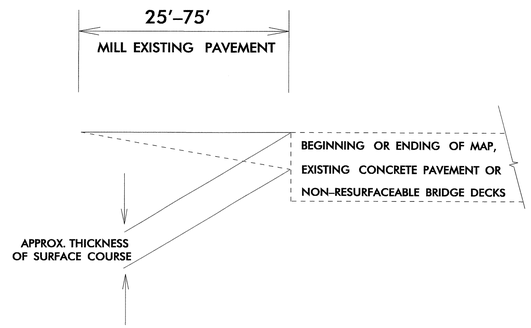
NOTES TO CONTRACTOR

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 2002 North Carolina Department of Transportation Standard Specifications for Roads and Structures. Resurfacing will be accomplished at the same time as the milling operation.

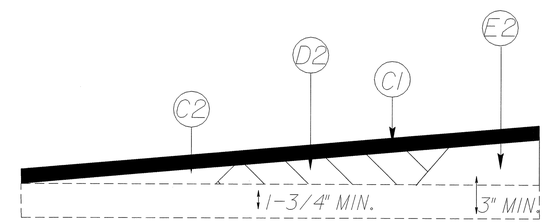
Payment for this item will be made under: Incidental Milling (SY)



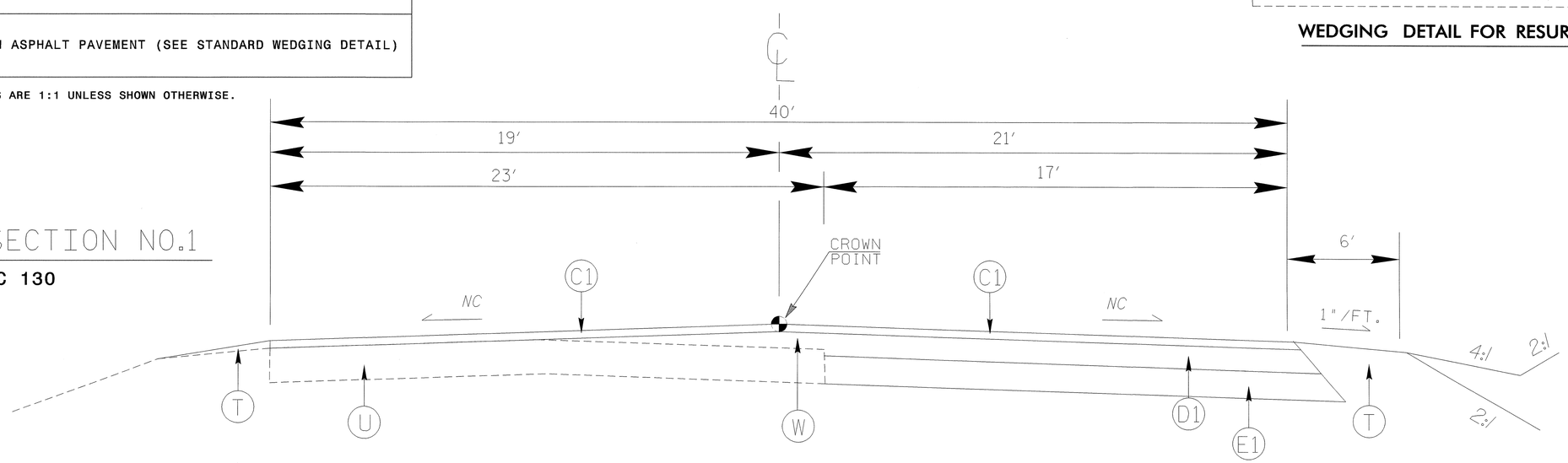
PROJECT NOTES

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 but no base material placed.
4. A minimum of two-way, two-lane traffic (plus all existing 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 2 inches.
7. Access to police and fire station, fire hydrants, and hospitals shall be maintained at all times.
8. During periods of construction inactivity, place 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 100' 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.

Pavement marking lines shall be placed to allow for 12' lanes with a 2' shoulder on each side.



WEDGING DETAIL FOR RESURFACING



TYPICAL SECTION NO.1

USE ON NC 130

$$$$$$$SYSTIME$$$$$
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$$$USERNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.
36272	2A

PAVEMENT SCHEDULE

C1	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	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 1½" IN DEPTH.
~~C3~~	~~PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.~~
D1	PROP. APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
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 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
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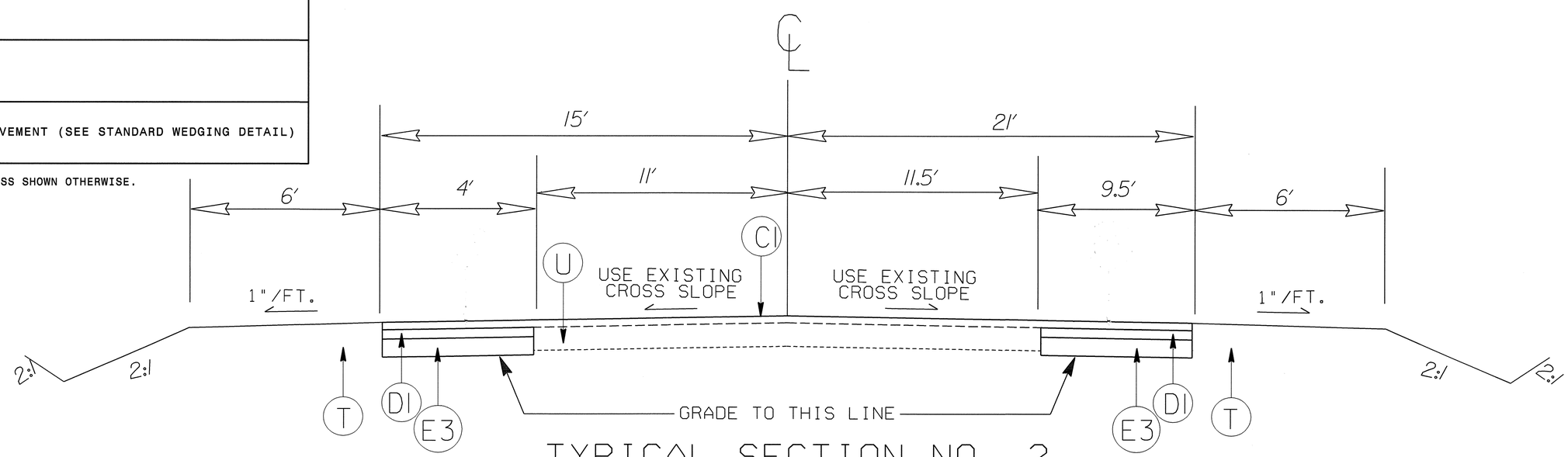
E3	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL)

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

* NOTE: RESURFACING ONLY FROM STA. 10+00 TO 12+50

Contractor shall place pavement markings to reflect 11' lanes and 1.5' paved shoulders.

Contractor shall coordinate with local Traffic Services Unit and any proposed signal design for the placement of all pavement markings.



TYPICAL SECTION NO. 2

USE FROM STA. 12+50 TO 16+50 -L- ON SR 1552

$$$$$$$SYSTIME$$$$$
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PROJECT REFERENCE NO.	SHEET NO.
[illegible]	3

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C201624

ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION
0043000000-N	226	Lump Sum		GRADING
0057000000-E	226	1,000	CY	UNDERCUT EXCAVATION
0318000000-E	300	105	TON	FOUNDATION CONDITIONING MATE-RIAL, MINOR STRS
0995000000-E	340	538	LF	PIPE REMOVAL
1220000000-E	545	170	TON	INCIDENTAL STONE BASE
1330000000-E	607	2,970	SY	INCIDENTAL MILLING
1489000000-E	610	4,450	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
1498000000-E	610	3,390	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B
1519000000-E	610	4,860	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
1560000000-E	620	642	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
2253000000-E	840	1.75	CY	PIPE COLLARS
2535000000-E	846	344	LF	**"X **" CONCRETE CURB (8" X 12")
2612000000-E	848	65	SY	6" CONCRETE DRIVEWAY
2655000000-E	852	125	SY	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)
2830000000-N	858	6	EA	ADJUSTMENT OF MANHOLES
2845000000-N	858	3	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES
4685000000-E	1205	15,900	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
4686000000-E	1205	19,815	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
4695000000-E	1205	335	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)
4697000000-E	1205	275	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)
4725000000-E	1205	50	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
4900000000-N	1251	363	EA	PERMANENT RAISED PAVEMENT MARKERS
5325600000-E	1510	15	LF	6" WATER LINE

ItemNumber	Sec #	Quantity	Unit	Description
5540000000-E	1515	1	EA	6" VALVE
5672000000-N	1515	1	EA	RELOCATE FIRE HYDRANT
5882000000-N	SP	2	EA	GENERIC UTILITY ITEM BREAKDOWN & REBUILD EXT MAN-HOLE
5888000000-E	SP	20	LF	GENERIC UTILITY ITEM 12" DI SEWER PIPE, CLASS 52
6000000000-E	1605	125	LF	TEMPORARY SILT FENCE
6006000000-E	1610	75	TON	STONE FOR EROSION CONTROL, CLASS A
6009000000-E	1610	800	TON	STONE FOR EROSION CONTROL, CLASS B
6012000000-E	1610	215	TON	SEDIMENT CONTROL STONE
6015000000-E	1615	9	ACR	TEMPORARY MULCHING
6018000000-E	1620	350	LB	SEED FOR TEMPORARY SEEDING
6021000000-E	1620	1.25	TON	FERTILIZER FOR TEMPORARY SEED-ING
6024000000-E	1622	50	LF	TEMPORARY SLOPE DRAINS
6027000000-N	1622	2	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
6030000000-E	1630	785	CY	SILT EXCAVATION
6036000000-E	1631	5,600	SY	MATTING FOR EROSION CONTROL
6042000000-E	1632	20	LF	1/4" HARDWARE CLOTH
6045000000-E	SP	10	LF	**" TEMPORARY PIPE (18")
6069000000-E	1638	18	CY	STILLING BASINS
6084000000-E	1660	8.75	ACR	SEEDING & MULCHING
6087000000-E	1660	5.5	ACR	MOWING
6090000000-E	1661	110	LB	SEED FOR REPAIR SEEDING
6093000000-E	1661	0.3	TON	FERTILIZER FOR REPAIR SEEDING
6096000000-E	1662	225	LB	SEED FOR SUPPLEMENTAL SEEDING
6108000000-E	1665	6.25	TON	FERTILIZER TOPDRESSING
6111000000-E	SP	10	LF	IMPERVIOUS DIKE
6114000000-N	SP	1	HR	SPECIALIZED HAND MOWING

ItemNumber	Sec #	Quantity	Unit	Description
6117000000-N	SP	8	EA	RESPONSE FOR EROSION CONTROL
7060000000-E	1705	550	LF	SIGNAL CABLE
7120000000-E	1705	4	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)
7144000000-E	1705	2	EA	VEHICLE SIGNAL HEAD (12", 5 SECTION)
7252000000-E	1710	1,663	LF	MESSENGER CABLE (1/4")
7264000000-E	1710	360	LF	MESSENGER CABLE (3/8")
7279000000-E	1715	150	LF	TRACER WIRE
7288000000-E	1715	90	LF	PAVED TRENCHING (***********) (1, 2")
7300000000-E	1715	825	LF	UNPAVED TRENCHING (**********) (1, 2")
7301000000-E	1715	150	LF	DIRECTIONAL DRILL (**********) (1, 2")
7324000000-N	1716	7	EA	JUNCTION BOX (STANDARD SIZE)
7348000000-N	1716	2	EA	JUNCTION BOX (OVER-SIZED, HEA-VY DUTY)
7360000000-N	1720	4	EA	WOOD POLE
7372000000-N	1721	15	EA	GUY ASSEMBLY
7408000000-E	1722	2	EA	1" RISER WITH WEATHERHEAD
7420000000-E	1722	3	EA	2" RISER WITH WEATHERHEAD
7432000000-E	1722	2	EA	2" RISER WITH HEAT SHRINK TUBING
7444000000-E	1725	550	LF	INDUCTIVE LOOP SAWCUT
7456000000-E	1726	1,420	LF	LEAD-IN CABLE (************) (18-2)
7516000000-E	1730	2,313	LF	COMMUNICATIONS CABLE (**FIBER) (12)
7552000000-N	1731	2	EA	INTERCONNECT CENTER
7566000000-N	1733	1	EA	DELINEATOR MARKER
7686000000-N	SP	1	EA	CONDUIT ENTRANCE INTO EXISTING FOUNDATION
7756000000-N	1751	1	EA	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)
7780000000-N	1751	7	EA	DETECTOR CARD (TYPE 2070L)
7901000000-N	1753	1	EA	CABINET BASE EXTENDER
8126000000-N	414	Lump Sum		CULVERT EXCAVATION, STA ****** (32+29.90 -L-REV)
8133000000-E	414	12	TON	FOUNDATION CONDITIONING MATER-IAL, BOX CULVERT
8196000000-E	420	31.9	CY	CLASS A CONCRETE (CULVERT)
8245000000-E	425	3,262	LB	REINFORCING STEEL (CULVERT)
8590000000-E	876	45	TON	RIP RAP, CLASS ** (I)
8622000000-E	876	225	SY	FILTER FABRIC FOR DRAINAGE
8897000000-N	SP	2	EA	GENERIC STRUCTURE ITEM 16" STEEL PIPE SLEEVE

********* BEGIN SCHEDULE AA *********
********* (3 ALTERNATES) *********

ItemNumber	Sec #	Quantity	Unit	Description
0366000000-E AA1	310	108	LF	15" RC PIPE CULVERTS, CLASS III
0372000000-E AA1	310	466	LF	18" RC PIPE CULVERTS, CLASS III
0378000000-E AA1	310	248	LF	24" RC PIPE CULVERTS, CLASS III
*** OR ***				
0378000000-E AA2	310	156	LF	24" RC PIPE CULVERTS, CLASS III
0536000000-E AA2	SP	108	LF	***" HDPE PIPE CULVERTS (15")
0536000000-E AA2	SP	466	LF	***" HDPE PIPE CULVERTS (18")
0536000000-E AA2	SP	92	LF	***" HDPE PIPE CULVERTS (24")
*** OR ***				
0378000000-E AA3	310	156	LF	24" RC PIPE CULVERTS, CLASS III
0540000000-E AA3	SP	108	LF	***" ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, ****" THICK (15")
0540000000-E AA3	SP	466	LF	***" ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, ****" THICK (18")
0540000000-E AA3	SP	92	LF	***" ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, ****" THICK (24")

********* END SCHEDULE AA *********

5/28/99
$$$$$$SYSTIME$$$$$
$$$$$$$$DGN$$$$$$$$$$$$$$$$
$$$$USERNAME$$$$

COMPUTED BY: CLH DATE: 4-25-06
CHECKED BY: DJU DATE: 4-25-06

PROJECT REFERENCE NO.	SHEET NO.
35881/36272	3A

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SUMMARY OF EARTHWORK

FOR 35881/36272

IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT+%	BORROW	WASTE
RT OF -L- REV					
STA.11+00 TO 83+96 -L- REV	3685		6130	2445	-0-
SUBTOTAL	3685		6130	2445	-0-
LT OF -L- REV					
STA.11+00 TO 83+96 -L- REV	190		1112	922	-0-
SUBTOTAL	190		1112	922	-0-
GRANDTOTAL	3875		7242	3367	-0-
LOSS DUE TO C & G	-250			250	
SUBTOTAL	3625		7242	3617	-0-
WASTE TO REPLACE BORROW				-0-	-0-
5% TO REPLACE TOPSOIL ON BORROW PITT				200	
PROJECT TOTAL	3625		7242	3817	-0-
SAY	3700			4000	-0-
EST.UNDERCUT		1000			

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT.

6/4/99

$$$$$$$SYSTIME$$$$
$$$$$$$USERNAME$$$$ $$DGN$$$$$$$$$$$$$$$$$$$$

COMPUTED BY: ______ DATE: ______
CHECKED BY: ______ DATE: ______

3/07/06

PROJECT REFERENCE NO.	SHEET NO.
35881/36272	3B

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

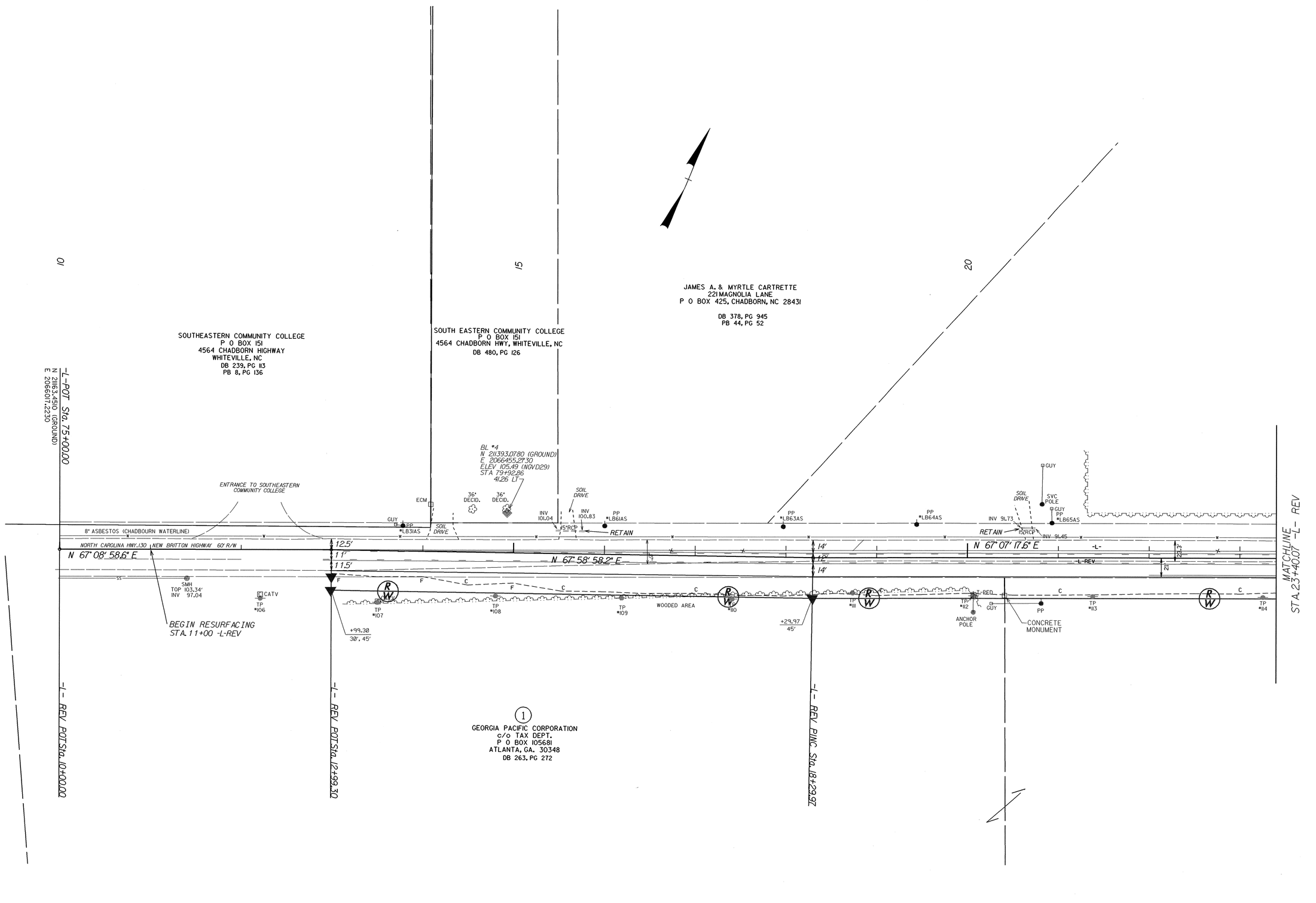
STATION	LOCATION (LT,RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) 24"	CLASS III R.C. PIPE OR C.S. PIPE OR TYPE IR ALUMINIZED OR HDPE PIPE, TYPE S OR D 12"	15"	18"	24"	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD 840.72	PIPE REMOVAL LIN.FT.	REMARKS
35881												
26+00	RT	1		156							156	
36+00	RT	2					200				20	
37+75	RT	3					36					
38+50	RT	4					40				122	
42+00	RT	5					20				18	
42+15	LT	6					32					
45+20	RT	7				28					26	
50+50	RT	8					18				19	
51+00	RT	9				20					20	
63+65	RT	10					20				20	
66+00	LT	11					52				58	
67+50	RT	12					24				24	
69+30	LT	13					24				12	
71+45	RT	14				20					19	
79+90	RT	15						16		.5526		
80+50	RT	16						76			24	
SUBTOTAL				156		68	466	92		.5526	538	
36272												
12+77	RT	17				16				.399		
14+40	RT	18				12				.399		
15+85	RT	19				12				.399		
SUBTOTAL						40				1.197		
TOTAL				156		108	466	92		1.750	538	

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.) GRATED DROP INLET (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

$$$$$$SYSTIME$$$$$$$$$$$$$$$$$$$$$$$
$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$
$$$$$$USERNAME$$$$$$

PROJECT REFERENCE NO.	SHEET NO.
35881	4



8/17/99

SYSTIME
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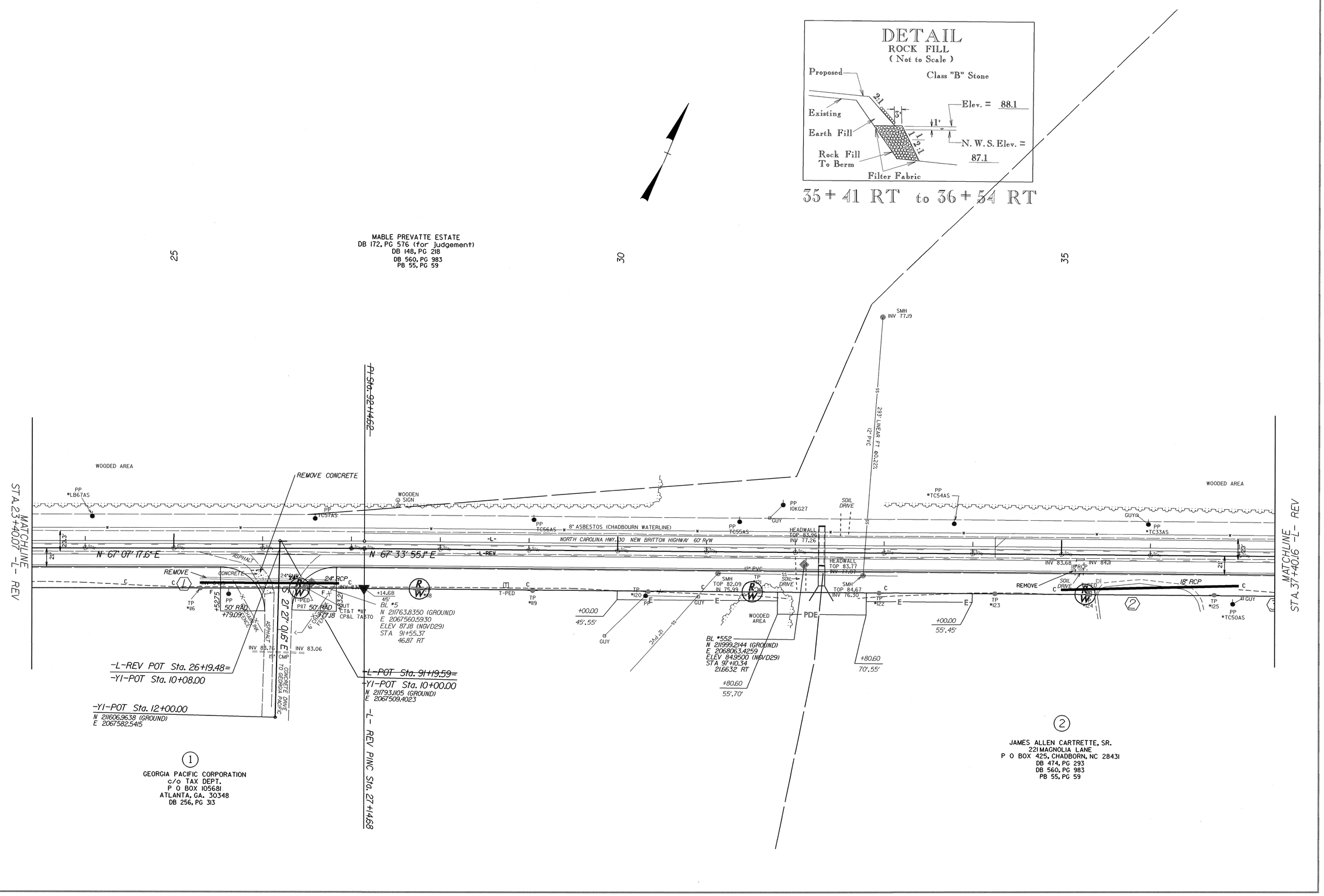
PROJECT REFERENCE NO.	SHEET NO.
35881	5



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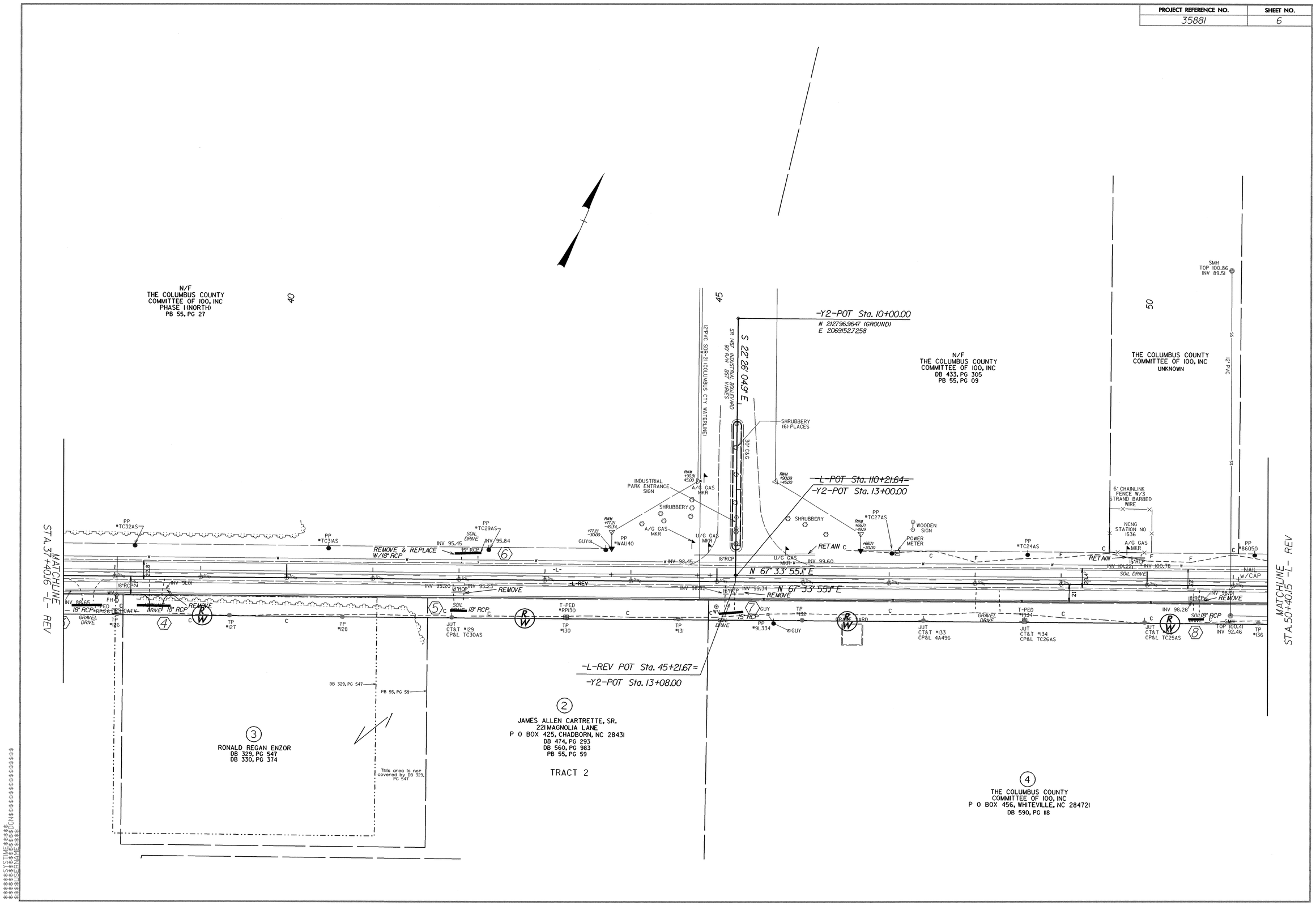

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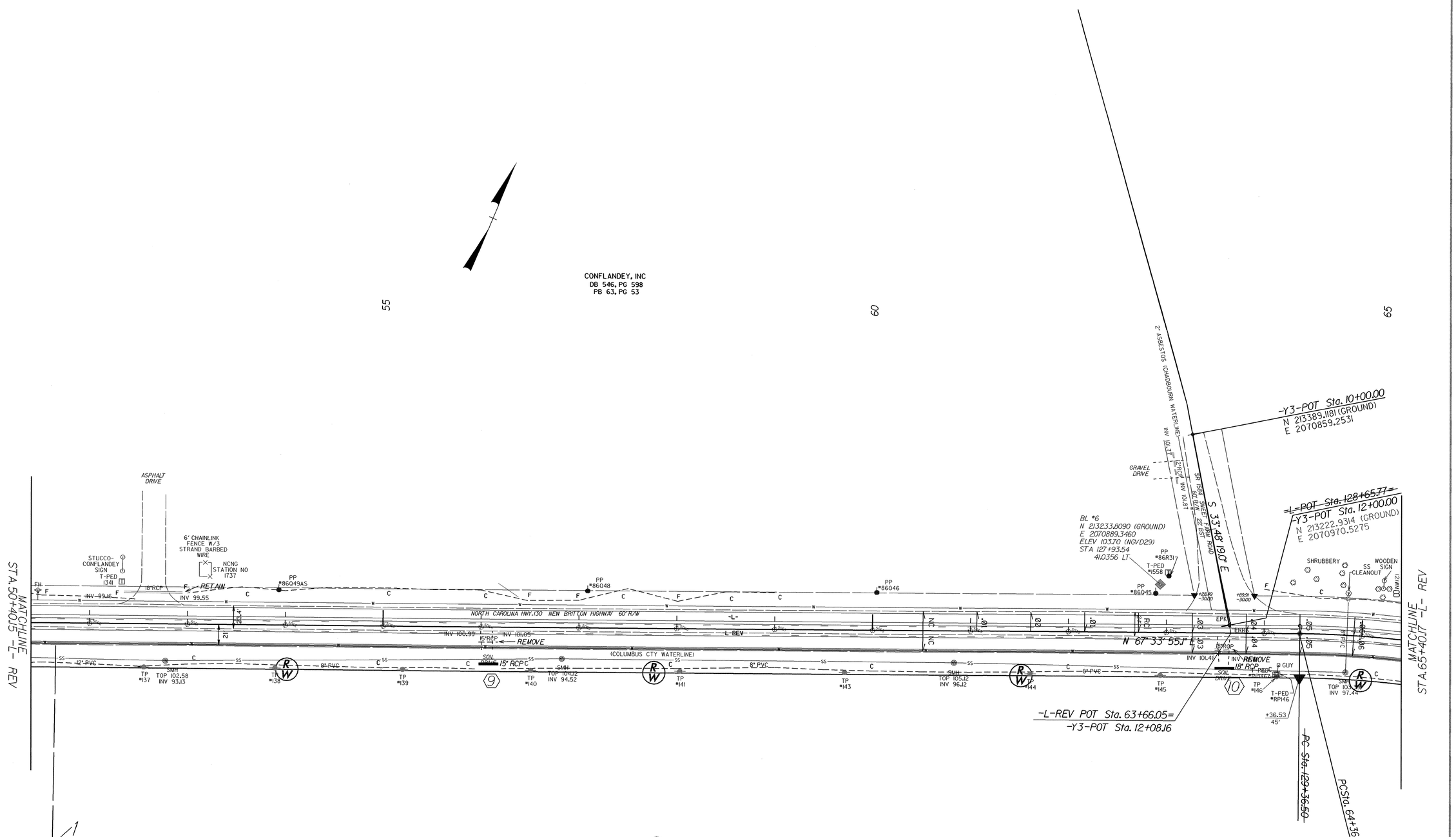

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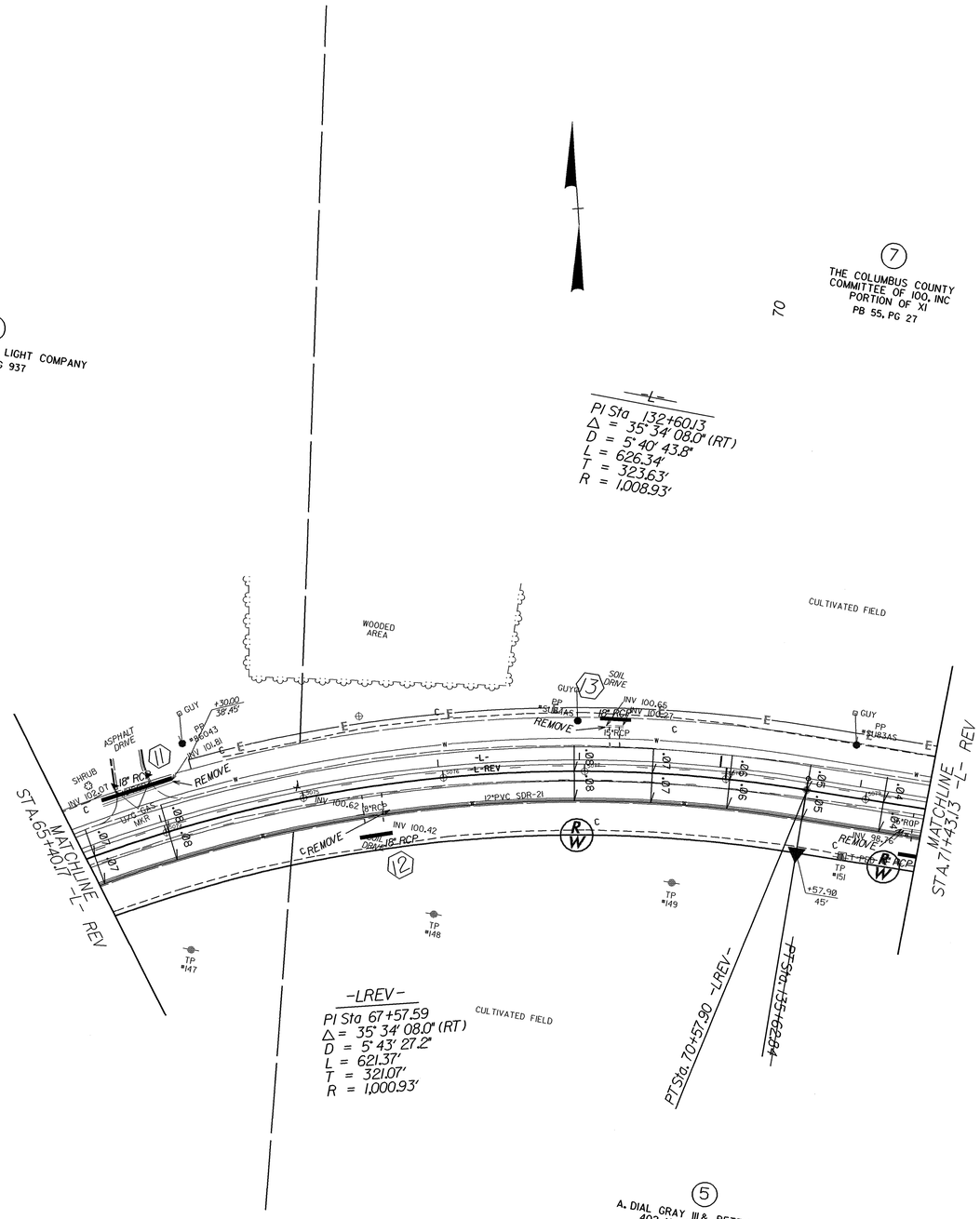
35881	8



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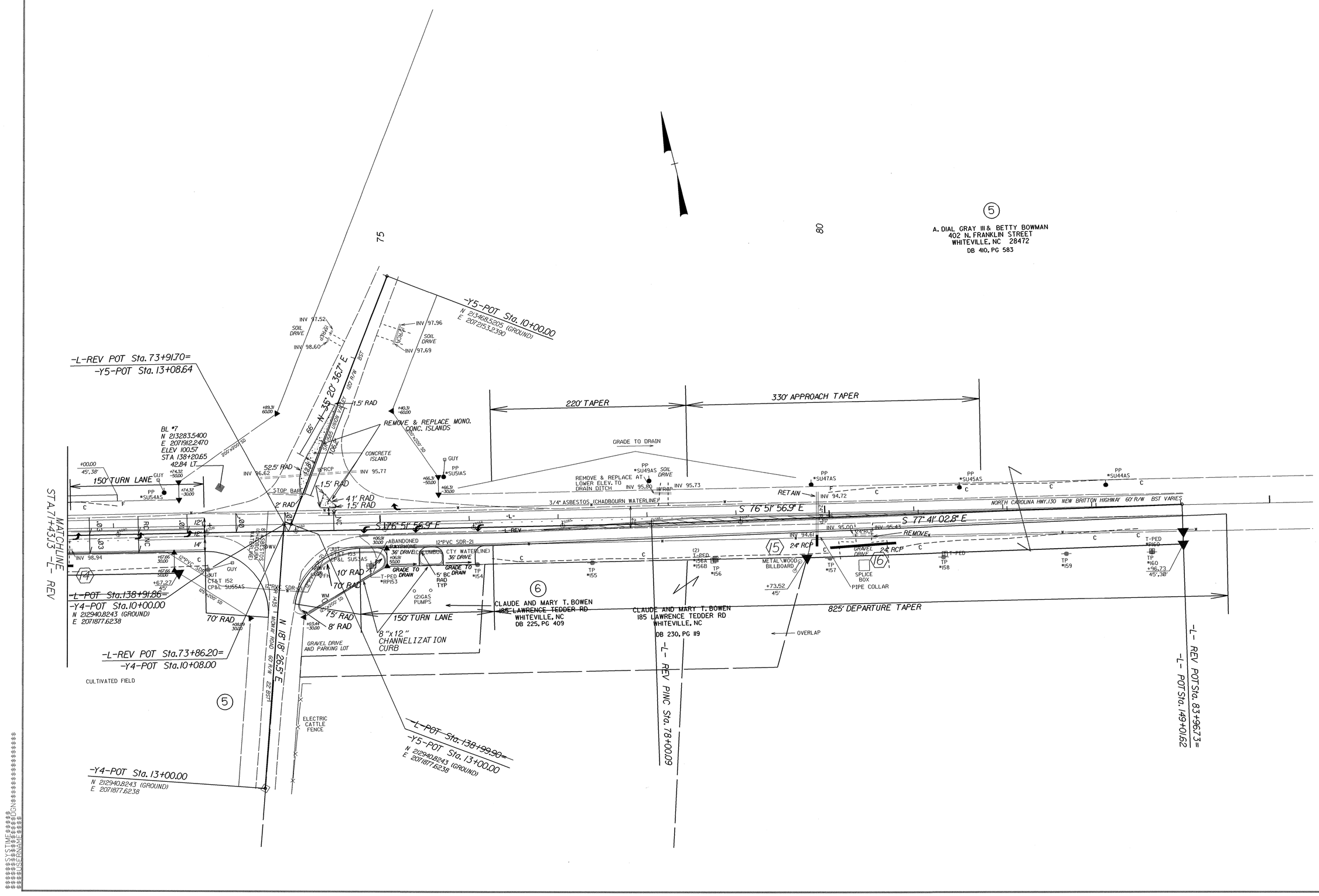
35881	9



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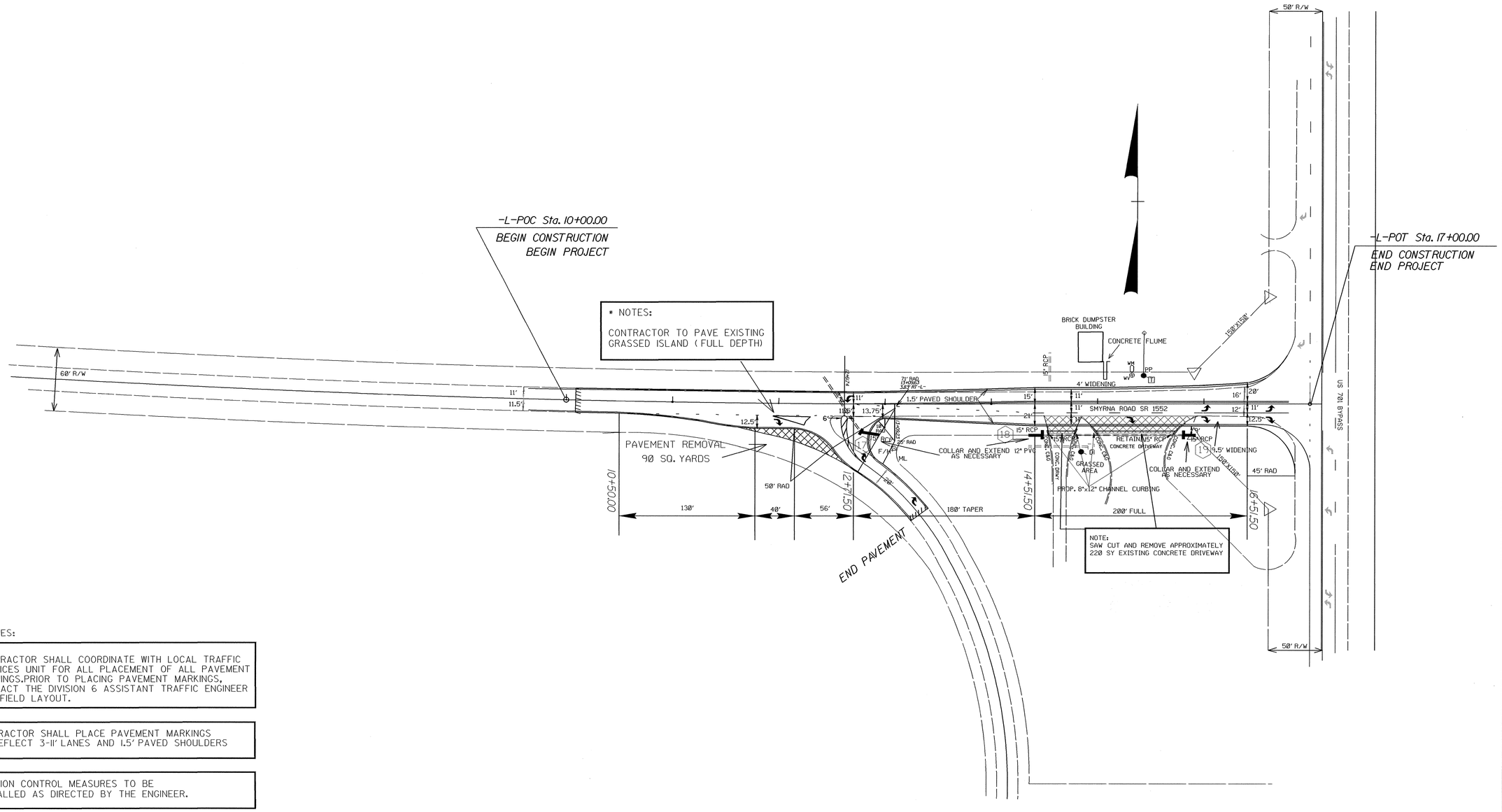
PROJECT REFERENCE NO.	SHEET NO.
36272	10



* NOTES:

CONTRACTOR SHALL COORDINATE WITH LOCAL TRAFFIC SERVICES UNIT FOR ALL PLACEMENT OF ALL PAVEMENT MARKINGS.PRIOR TO PLACING PAVEMENT MARKINGS, CONTACT THE DIVISION 6 ASSISTANT TRAFFIC ENGINEER FOR FIELD LAYOUT.

CONTRACTOR SHALL PLACE PAVEMENT MARKINGS TO REFLECT 3-11' LANES AND 1.5' PAVED SHOULDERS

EROSION CONTROL MEASURES TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

50 0 50 100 150
GRAPHIC SCALE - FEET