



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY PERDUE
GOVERNOR

EUGENE CONTI
SECRETARY

February 4, 2010

MEMORANDUM TO: Mr. Jay Swain, Jr., PE
Division Thirteen Engineer

FROM: Philip S. Harris, III, P.E., Unit Head *E. P. Harris*
Natural Environment Unit
Project Development and Environmental Analysis Branch

SUBJECT: Yancey County, from SR 1336 (Jacks Creek Road) to SR 1186 (US 19) west of
Micaville; T.I.P. Number R-2519 A; Federal Aid Project No. BRZ-1318(8);
State Project 6.909001T

Attached are the modifications to the U.S. Army Corps of Engineers Section 404 Individual Permit and N.C. Division of Water Quality Section 401 Individual Water Quality Certification for the above referenced project. All environmental permits have been received for the construction of this project.

A copy of this permit package will be posted on the NCDOT website at:
<http://www.ncdot.gov/doh/preconstruct/pe/neu/permit.html>

PSH/gyb

Attachment

Cc: W/attachment
Mr. Randy Garris, P.E. State Contract Officer
Mr. Roger Bryan, Division Environmental Officer
Ms. Beth Harmon, EEP

Cc: W/o attachment (see website for attachments)
Mr. Majed Alghandour, P. E., Programming and TIP
Mr. Jay Bennett, P.E., Roadway Design
Dr. David Chang, P.E., Hydraulics
Mr. Art McMillan, P.E., Highway Design
Mr. Tom Koch, P.E., Structure Design
Mr. Mark Staley, Roadside Environmental
Mr. John F. Sullivan, FHWA
Mr. Ron Hancock, P.E., State Roadway Construction Engineer
Mr. Mike Robinson, P.E., State Bridge Construction Engineer
Ms. Teresa Hart, P.E., PDEA Western Region Unit Head

PROJECT COMMITMENTS

**T.I.P Project No. R-2519A,
From SR 1336 (Jacks Creek Road) to SR 1186 (US 19) west of Micaville
Yancey County
Federal Aid Project No. BRZ-1318(8); State Project No. 6.909001T**

The modifications for R-2518A (retaining wall mod) and R-2519A were combined into one modification by the Army Corps of Engineers. This greensheet refers only to 404 and 401 conditions pertaining to R-2519A. The R-2518A permit mod and conditions are addressed in a separate greensheet/permit package.

This Modification to the R-2518A, R-2518B, & R-2519A, Individual Section 404 Permit and the 401 Water Quality Certification has resulted in no changes to the project green sheets originally issued April 2008. All previous commitments remain valid with the following exceptions.

NEU, Division 13

Modification to 401 Water Quality Certification (September 4, 2009) - Condition 2:

“Compensatory mitigation for impacts to 3,688 linear feet of streams at a replacement ratio of 1:1 is required. Compensatory mitigation for impacts to jurisdictional streams shall be provided by a combination of onsite stream restoration, enhancement preservation, and through the NC Ecosystem Enhancement Program (EEP). EEP will provide the required mitigation that cannot be provided onsite. The onsite stream relocation shall be constructed in accordance with the mitigation plans submitted in your July 31, 2009 application. All onsite mitigation sites shall be protected in perpetuity by a conservation easement or through NCDOT fee simple acquisition and recorded in the NCDOT Natural Environment Unit Mitigation geodatabase. Please be reminded that as-builts for the completed streams shall be submitted to the NC Division of Water Quality Transportation Permitting Unit with the as-builts for the rest of the project. If the parameters of this condition are not met, then the permittee shall supply additional stream mitigation for the 3,688 linear feet of impacts. We understand that you have chosen to perform compensatory mitigation for impacts to streams through the North Carolina Ecosystem Enhancement Program (EEP) and that the EEP has agreed to implement the mitigation for the project. EEP has indicated in a letter dated October 22, 2007 that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above-referenced project, in accordance with the Tri-party MOA signed July 22, 2003 and the Dual Party MOA signed on April 12, 2004.”

David Baker of the Army Corps of Engineers stated via phone on January 21, 2010, that the stream impact amount of 4,509 linear feet will be mitigated for R-2519A. NCDOT proposes compensatory mitigation through 3,702 linear feet of onsite stream mitigation with 807 linear feet of mitigation being obtained from EEP at a ratio of 1:1. NCDOT will also obtain 0.30 acre of mitigation from EEP for permanent wetland impacts.

Email correspondence with Marla Chambers dated January 25, 2010 stated concerning moratoria for Section R-2519A: "According to our moratoria letter, the UT to Cane River would fall under the same moratorium that we requested for Cane River - April 1 to June 30. We can waive the trout moratorium for Pine Swamp Branch and Bailey Branch, but all other waters, not addressed specifically by our letter dated July 19, 2007, should adhere to the short trout moratorium - January 1 to April 15".

In summary, the in-water moratoria for R-2519A are as follows:

UTs to the Cane River (Permit Sites 1-6): **April 1 to June 30** (Mussel spawning)

Bailey Branch, Pine Swamp Branch (Permit Sites 7-10): **No moratoria**

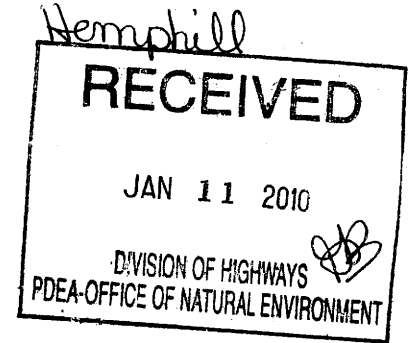
Little Crabtree Creek, Ray Creek, Sugar Hollow Creek, Allen Branch, George's Fork
Shoal Creek, Plum Branch and their UTs (Permit Sites 11-16, 18, 21 -37):
January 1 to April 15 (trout moratorium)



REPLY TO
ATTENTION OF:

DEPARTMENT OF THE ARMY
WILMINGTON DISTRICT, CORPS OF ENGINEERS
69 DARLINGTON AVENUE
WILMINGTON, NORTH CAROLINA 28403-1343

January 6, 2010



Regulatory Division

Action ID No. SAW-2007-2197-357/300, TIP No. R-2518 A/B and R-2519 A

Gregory J. Thorpe, Ph.D., Director
Project Development and Environmental Analysis Branch
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Dr. Thorpe:

Reference the Department of the Army (DA) permit issued on April 17, 2008 to the North Carolina Department of Transportation to discharge dredged or fill material into 0.94 acres of wetland and 14,766 linear feet of stream channel within the Little Ivy Creek, Cane River, and South Toe River drainages associated with the widening of approximately 21 miles of US Highway 19/19E in Madison and Yancey Counties, North Carolina (TIP No's. R-2518 A/B and R-2519 A). Also reference your written requests of July 31, 2009 and November 4, 2009 to modify permitted impacts to waters of the United States within two segments of the US Highway 19 construction corridor.

Your July 31, 2009 modification request addresses Section R-2519A of the US 19E widening project. The original permit, based upon preliminary design, authorized impacts of 5,309 linear feet to surface waters and 0.29 acre to jurisdictional wetlands. Current impacts, now based upon final design plans received with your submittal, have been reduced to 4,509 LF of stream loss, increased slightly to 0.30 acre of wetland impacts, and include 1,019 LF of bank stabilization

Your November 4, 2009 modification request addresses the additional piping of 1,228 LF of Ivy Gap Branch as a result of the elimination of a retaining wall which was depicted on the original Roadway Plan Sheets 30-31 within the R-2518A Section of the project. The change is necessary due to poor soil conditions discovered during geotechnical studies. This revision has been coordinated with and agreed to by all NEPA/404 Merger Team members. The resulting additional stream channel loss includes a 307 linear foot segment of stream which was utilized for preservation mitigation credits in the original permit authorization. This segment, coupled with the aforementioned piping of Ivy Gap Branch, will require additional mitigation for the equivalent of 1,535 linear feet of stream channel. NCEEP has indicated in a letter dated November 5, 2009, that they agree to implement the additional mitigation for the project up to a 3:1 ratio within the French Broad HUC 06010105.

We have reviewed the above proposals and in accordance with your written requests have hereby modified your original authorization. The plans submitted with your requests replace those authorized by our original April 17, 2008 permit. Any further modification to the permit plans must be approved by the USACE prior to implementation.

Special Condition No. 15 of the referenced permit is hereby modified to include the additional language:

“ In order to compensate for the additional unavoidable impacts to stream channels, the permittee shall mitigate for unavoidable impacts to 1,535 linear feet of cold-water stream channel associated with this modification by payment to the North Carolina Ecosystem Enhancement Program (NCEEP) in an amount determined by the NCEEP, sufficient to perform 4,605 linear feet of cold-water stream restoration within Cataloging Unit 06010105 of the French Broad River Basin in accordance with the NCEEP Mitigation Acceptance Letter of July 9, 2009 from William D. Gilmore, Director, NCEEP

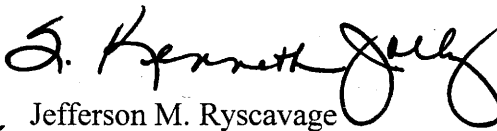
Special Condition No. 19 of the original permit is modified to read as follows:

“All conditions of the North Carolina Division of Water Quality’s Section 401 Water Quality Certification No. 3706, original dated October 11, 2007, and subsequently modified on March 17, 2008, February 20, 2009, September 4, 2009, and December 11, 2009, are hereby incorporated as special conditions of this permit.

It is understood that all other conditions of the original permit remain applicable and that the expiration date is unchanged.

If you have any questions, please contact Mr. David Baker, Asheville Field Office, Regulatory Division, telephone (828) 271-7980, extension 225.

Sincerely,


Jefferson M. Ryscavage
Colonel, U.S. Army
District Commander

Copies furnished:

J.J. Swain, Jr., P.E., Division Engineer
NC Department of Transportation, Division 13
Post Office Box 3279
Asheville, North Carolina 28802

Mr. Brian Wrenn
NC Division of Water Quality
Transportation Permitting Unit
1650 Mail Service Center
Raleigh, North Carolina 27699-1650



North Carolina Department of Environment and Natural Resources

Division of Water Quality

Coleen H. Sullins

Director

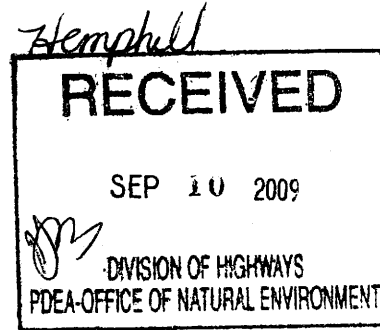
September 4, 2009

Beverly Eaves Perdue
Governor

Dee Freeman
Secretary

Approval of 401 Water Quality Certification with Additional Conditions

Dr. Greg Thorpe, PhD., Manager
Project Development and Environmental Analysis
North Carolina Department of Transportation
1548 Mail Service Center
Raleigh, North Carolina, 27699-1548



Subject: Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act for Proposed Improvements to US Highway 19/US 19E from future I-26 (existing US 19-23) to NCSR 1186 in Yancey County, State Project No. 6.869005T and 6.909001T, TIP No. R-2518A, R-2518B and R-2519A. DWQ Project No. 2007-1134V.4, Individual Certification No. 3706.

Dear Dr. Thorpe:

Attached hereto is a modification of Certification No. 3706 issued to the North Carolina Department of Transportation dated September 4, 2009. This modification is applicable only to the additional proposed activities and is **applicable only to Section R-2519A**. All the authorized activities and conditions of certification associated with the original Water Quality Certification dated October 11, 2007 and subsequent modifications (dated March 17, 2008 and February 20, 2009), still apply, except where superseded by this Certification.

If we can be of further assistance, do not hesitate to contact us.

Sincerely,

Roger C. Edwards
for Coleen Sullins,
Director

Attachments

cc: David Baker, USACE, Asheville Field Office
J. J. Swain, Division Engineer, NCDOT Division 13
Kathy Matthews, Environmental Protection Agency
Marla Chambers, NCWRC
Marella Buncick, USFWS
Transportation Permitting Unit
Mike Parker, Asheville Regional Office

RECEIVED
Division of Highways

SEP 09 2009

Preconstruction
Project Development and
Environmental Analysis Branch

071134V.4 (Thorpe) US Highway 19-19E

SURFACE WATER PROTECTION SECTION – ASHEVILLE REGIONAL OFFICE
Location: 2090 U.S. Highway 70, Swannanoa, North Carolina 28778
Phone: 828-296-4500 \ FAX: 828-299-7043 \ Customer Service: 1-877-623-6748
Internet: www.ncwaterquality.org
An Equal Opportunity \ Affirmative Action Employer

One
North Carolina
Naturally

Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 92-217 of the United States and subject to the North Carolina Division of Water Quality (DWQ) Regulations in 15 NCAC 2H, Section .0500. This certification authorizes the NCDOT to impact 6,101 linear feet of streams and 0.30 acres of wetlands in the French Broad River Basin in Yancey County. The project shall be constructed pursuant to the modification request dated July 31, 2009. The authorized impacts are as described below:

Table1-Stream Impacts in the French Broad River Basin for R-2519A

Site R-2519A	Stream Relocation in Perennial Stream (lf)	Stream bank Stabilization in Perennial Stream (lf)	Permanent Fill in Perennial Stream (lf)	Temporary Fill in Perennial Stream (lf)	Total Stream Impact (lf)	Stream Impacts Requiring Mitigation (lf)
1	0	13	55	16	84	0
2	0	26	59	18	103	0
3	0	13	41	8	62	0
4	0	33	13	12	58	0
5	0	0	83	13	96	0
6	0	30	51	11	92	0
7	0	0	0	0	0	0
8	0	0	19	9	28	0
9	0	16	16	25	57	0
9A	0	25	0	0	25	0
10	0	23	691	47	761	714
11	0	19	13	10	42	0
12	0	98	34	20	152	0
13	0	16	66	15	97	0
14	0	270	0	0	270	0
15	0	48	82	38	168	0
16	0	0	41	15	56	0
17	0	0	0	0	0	0
18	0	40	69	0	109	0
19	0	0	0	0	0	0
20	0	0	0	0	0	0
21	0	20	46	35	101	0
22	0	40	211	19	270	251
23	0	87	45	9	141	0
24	0	0	535	0	535	535
25	0	0	186	34	220	186
26	583	0	0	11	594	583
27	0	0	143	11	154	0
28	0	133	42	58	233	175
29	0	0	294	14	308	294
30	0	0	200	7	207	200

31	0	14	40	20	74	0
32	217	0	0	10	227	217
33	0	0	325	26	351	325
34	0	0	208	20	228	208
35	0	55	18	20	93	0
36	0	0	24	12	36	0
37	0	0	59	10	69	0
Total	800	1,019	3,709	573	6,101	3,688

Total Additional Stream Impact for R-2519A: 6,101 linear feet.

Table 2-Wetland Impacts for R-2519A in the French Broad River Basin

Site	Fill (ac)	Fill (temporary) (ac)	Excavation (ac)	Mechanized Clearing (ac)	Hand Clearing (ac)	Total Wetland Impact (ac)
R-2519A						
17 - Non-Riverine	0.02	0	0	0.02	0	0.04
19 - Riverine	0.15	0	0	0.09	0	0.24
20 - Riverine	0.01	0	0	0.01	0	0.02
Total	0.18	0	0	0.12	0	0.30

Total Wetland Impact for R-2519A: 0.30 acres.

The application provides adequate assurance that the discharge of fill material into the waters of the French Broad River Basin in conjunction with the proposed development will not result in a violation of applicable Water Quality Standards and discharge guidelines. Therefore, the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301, 302, 303, 306, 307 of PL 92-500 and PL 95-217 if conducted in accordance with the application and conditions hereinafter set forth.

This approval is only valid for the purpose and design that you submitted in your application dated July 31, 2009 and received on August 6, 2009. All the authorized activities and conditions of certification associated with the original Water Quality Certification dated October 11, 2007 and modifications dated March 17, 2008 and February 20, 2009, still apply except where superceded by this certification. Should your project change, you are required to notify the DWQ and submit a new application. If the property is sold, the new owner must be given a copy of the Certification and approval letter, and is thereby responsible for complying with all the conditions. If any additional wetland impacts, or stream impacts, for this project (now or in the future) exceed one acre or 150 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H.0506 (h)(6) and (7). For this approval to remain valid, you are required to comply with all conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Costal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire on the same day as the expiration date of the corresponding US Army Corps of Engineers Permit.

Conditions of Certification:

Project Specific Conditions

1. This Certification authorizes only impacts to streams and wetlands for Section R-2519A from Station No. -L-228+50 to Station No. L-340+50.
2. Compensatory mitigation for impacts to 3,688 linear feet of streams at a replacement ratio of 1:1 is required. Compensatory mitigation for impacts to jurisdictional streams shall be provided by a combination of on-site

stream restoration, enhancement, preservation, and through the NC Ecosystem Enhancement Program (EEP). EEP will provide the required mitigation that cannot be provided onsite. The on-site stream relocation shall be constructed in accordance with the mitigation plans submitted in your July 31, 2009 application. All on-site mitigation sites shall be protected in perpetuity by a conservation easement or through NCDOT fee simple acquisition and recorded in the NCDOT Natural Environment Unit Mitigation geodatabase. Please be reminded that as-builts for the completed streams shall be submitted to the NC Division of Water Quality Transportation Permitting Unit with the as-builts for the rest of the project. If the parameters of this condition are not met, then the permittee shall supply additional stream mitigation for the 3,688 linear feet of impacts. We understand that you have chosen to perform off-site compensatory mitigation for impacts to streams through the North Carolina Ecosystem Enhancement Program (EEP), and that EEP has agreed to implement the mitigation for the project. EEP has indicated in a letter dated October 22, 2007 that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above referenced project, in accordance with the Tri-Party MOA signed on July 22, 2003 and the Dual Party MOA signed on April 12, 2004.

3. The onsite stream mitigation shall be constructed in accordance with the design submitted in you July 31, 2009, application. Please be reminded that as-builts for the completed streams shall be submitted to the NC Division of Water Quality Transportation Permitting Unit with the as-builts for the rest of the project. If the parameters of this condition are not met, then the permittee shall supply additional stream mitigation for the 3,688 linear feet of impacts. All channel relocations will be constructed in a dry work area, shall be completed and stabilized, and must be approved by DWQ staff, prior to diverting water into the new channel. Whenever possible, channel relocations shall be allowed to stabilize for an entire growing season. Vegetation used for bank stabilization shall be limited to native woody species, and should include establishment of a 30 foot wide wooded and an adjacent 20 foot wide vegetated buffer on both sides of the relocated channel to the maximum extent practical. All stream banks shall be matted with coir fiber matting. Also, rip-rap may be allowed if it is necessary to maintain the physical integrity of the stream, but the applicant must provide written justification and any calculations used to determine the extent of rip-rap coverage requested.

Table 3 - On-site Stream Mitigation for R-2519A

Site	Mitigation Type	Length (ft.)	Buffer (ft./side)
26 (George Fork)	Restoration	580	30
29 (Shoal Creek)	Restoration	233	24
32 (UT to Plum Creek)	Restoration	210	20
33 (Plum Creek)	Restoration	157	25
	Total	1,180	279

Additional mitigation credits may be available on R-2518A and R-2518B.

4. The permittee shall monitor the stream relocation sites following the Level 1 protocols outlined in the "Stream Mitigation Guidelines" dated April 2003 with the following exceptions:
 - a. Pebble counts shall not be conducted.
 - b. Two cross sections shall be conducted for streams less than 500 linear feet and five cross sections shall be conducted for streams greater than 500 linear feet.
 - c. Riparian success shall be by visual inspection of plant survival. Photos will be taken and comments noted on plant survival.

The monitoring shall be conducted annually for a minimum of five years after final plantings. The monitoring results shall be submitted to NCDWQ in a final report within sixty (60) days after completing monitoring. After five years the NCDOT shall contact the NCDWQ to schedule a site visit to "close out" the mitigation site.

5. NCDOT shall adhere to all appropriate in-water work moratoriums (including the use of pile driving) prescribed by the US Fish and Wildlife Service and the NC Wildlife Resources Commission.

Cane River and South Toe River- no in-water work from April 1 to June 30 - Appalachian Elk-toe Mussel,

Big Crabtree Creek-no in-water work from October 15 through April 15 - Brook or Brown Trout,

Little Crabtree Creek, Brushy Creek and Long Branch- no in-water work from January 1 through April 15 - Rainbow Trout.

All other unnamed tributaries should use the moratorium appropriate for the named stream they flow to, unless survey data indicate otherwise.

6. For projects impacting waters classified by the NC Environmental Management Commission as High Quality Waters (HQW), or Water Supply I or II (WS-I or WS-II) stormwater shall be directed to vegetated buffer areas, grass-lined ditches other means appropriate to the site for the purpose of pre-treating stormwater runoff prior to discharging directly into streams. Mowing of existing vegetated buffers is strongly discouraged.
7. The permittee shall use *Design Standards in Sensitive Watersheds*/ [15A NCAC 4B.0124(a)-(e)] in areas draining to trout waters. However, due to the size of the project, NCDOT shall not be required to meet 15A NCAC 4B.0124(a) regarding the maximum amount of uncovered acres. Temporary cover (wheat, millet, or similar annual grain) or permanent herbaceous cover should be planted on all bare soil within 15 business days of ground disturbing activities, to provide erosion control. Coir fiber matting should be used in conjunction with appropriate seeding on disturbed soils in steep slope and riparian areas, and should be secured in place with staples and wherever possible, include live stakes of native trees.

Straw mulch and tall fescue shall not be used in the establishment of temporary or permanent groundcover within riparian zones. Coir fiber matting shall be used in conjunction with appropriate seeding for the establishment of permanent herbaceous cover on disturbed soils within the riparian area. Hydro seeding along with wood or cellulose based hydro mulch applied from a fertilizer and limestone free tank is allowable at the appropriate rate for the establishment of temporary groundcover within riparian zones. Discharging hydroseed mixtures and wood or cellulose mulch into surface waters is prohibited. Riparian areas are defined as a distance 25 feet landward from top of stream bank.

General Conditions

8. Bridge deck drains should not discharge directly into the streams. Stormwater shall be directed across the bridge and pre-treated through site-appropriate means (grassed swales, pre-formed scour holes, vegetated buffers, etc.) before entering the stream. Please refer to the most current version of *Stormwater Best Management Practices*. Stormwater shall be managed in accordance with your State Stormwater Permit issued by DWQ.
9. The post-construction removal of any temporary bridge structures must return the project site to its preconstruction contours and elevations. The impacted area shall be revegetated with appropriate native species.
10. Strict adherence to the most recent version of NCDOT's Best Management Practices For Bridge Demolition and Removal approved by the US Army Corps of Engineers is a condition of the 401 Water Quality Certification.
11. Bridge piles and bents shall be constructed using driven piles (hammer or vibratory) or drilled shaft construction methods. More specifically, jetting or other methods of pile driving are prohibited without prior written approval from NCDWQ.

12. Bridge deck drains should not discharge directly into the streams. Stormwater shall be directed across the bridge and pre-treated through site-appropriate means (grassed swales, pre-formed scour holes, vegetated buffers, etc.) before entering the stream. Please refer to the most current version of *Stormwater Best Management Practices*.
13. No drill slurry or water that has been in contact with uncured concrete shall be allowed to enter surface waters. This water shall be captured, treated and disposed of properly.
14. All pile driving or drilling activities shall be enclosed in turbidity curtains unless otherwise approved by NCDWQ in this certification.
15. All bridge construction shall be performed from the existing bridge, temporary work bridges, temporary causeways or floating or sunken barges. If work conditions require barges, they shall be floated into position and then sunk. The barges shall not be sunk and then dragged into position. Under no circumstances should barges be dragged along the bottom of the surface water.
16. The stream channel shall be excavated no deeper than the natural bed material of the stream, to the maximum extent practicable. Efforts must be made to minimize impacts to the stream banks, as well as to vegetation responsible for maintaining the stream bank stability. Any applicable riparian buffer impact for access to stream channel shall be temporary and be revegetated with native riparian species.
17. Unless otherwise approved in this certification, placement of culverts and other structures in waters, streams, and wetlands shall be placed below the elevation of the streambed by one foot for all culverts with a diameter greater than 48 inches, and 20 percent of the culvert diameter for culverts having a diameter less than 48 inches, to allow low flow passage of water and aquatic life. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or streambeds or banks, adjacent to or upstream and down stream of the above structures. The applicant is required to provide evidence that the equilibrium is being maintained if requested in writing by NCDWQ. If this condition is unable to be met due to bedrock or other limiting features encountered during construction, please contact NCDWQ for guidance on how to proceed and to determine whether or not a permit modification will be required.
18. During the construction of the project, no staging of equipment of any kind is permitted in waters of the U.S., or protected riparian buffers.
19. The Permittee shall ensure that the final design drawings adhere to the permit and to the permit drawings submitted for approval.
20. All work in or adjacent to stream waters shall be conducted in a dry work area. Approved BMP measures from the most current version of NCDOT Construction and Maintenance Activities manual such as sandbags, rock berms, cofferdams and other diversion structures shall be used to prevent excavation in flowing water.
21. All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials.
22. The permittee and its authorized agents shall conduct its activities in a manner consistent with State water quality standards (including any requirements resulting from compliance with §303(d) of the Clean Water Act) and any other appropriate requirements of State and Federal law. If NCDWQ determines that such standards or laws are not being met (including the failure to sustain a designated or achieved use) or that State or federal law is being violated, or that further conditions are necessary to assure compliance, NCDWQ may reevaluate and modify this certification.
23. A copy of this Water Quality Certification shall be maintained on the construction site at all times. In addition, the Water Quality Certification and all subsequent modifications, if any, shall be maintained with the Division Engineer and the on-site project manager.
24. The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization shall be clearly marked by highly visible fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification.
25. The issuance of this certification does not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other government agencies (i.e. local, state, and federal) having jurisdiction, including but not limited to applicable buffer rules, stormwater management rules, soil erosion and sedimentation control requirements, etc.

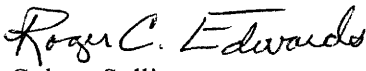
26. The Permittee shall report any violations of this certification to the Division of Water Quality within 24 hours of discovery.
27. Upon completion of the project (including any impacts at associated borrow or waste sites), the NCDOT Division Engineer shall complete and return the enclosed "Certification of Completion Form" to notify NCDWQ when all work included in the 401 Certification has been completed.
28. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this permit without appropriate modification. Should waste or borrow sites, or access roads to waste or borrow sites, be located in wetlands or streams, compensatory mitigation will be required since that is a direct impact from road construction activities.
29. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface waters standards:
 - a. The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Sediment and Erosion Control Planning and Design Manual*.
 - b. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
 - c. For borrow pit sites, the erosion and sediment control measures must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*.
 - d. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.
30. Sediment and erosion control measures shall not be placed in wetlands or waters unless otherwise approved by this Certification.

Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. This Certification shall become null and void unless the above conditions are made conditions of the Federal 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit.

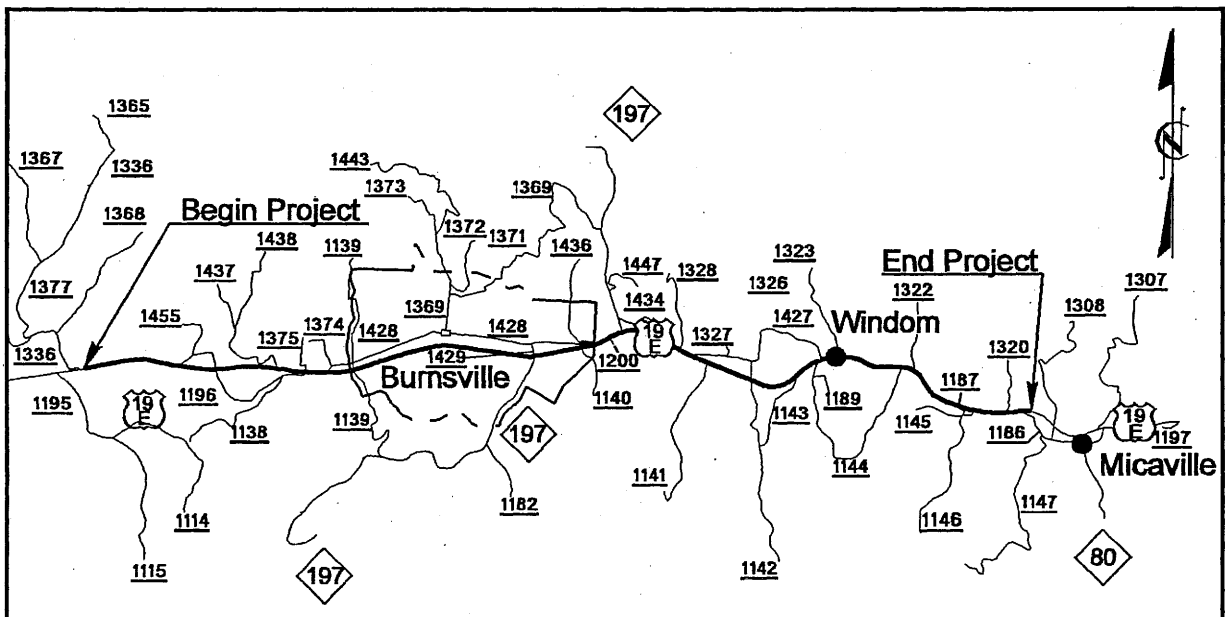
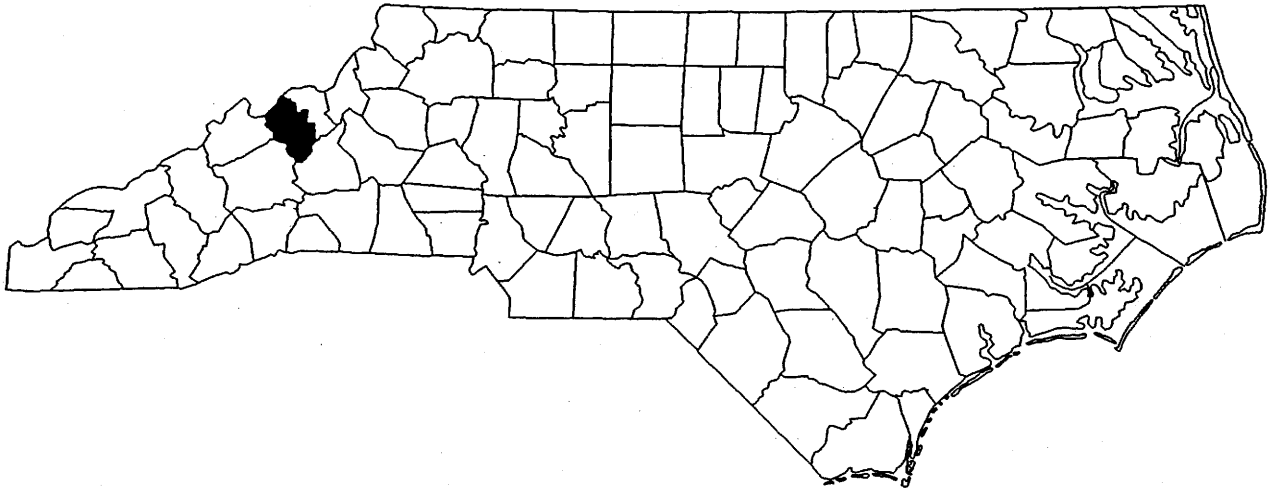
If this Certification is unacceptable to you have the right to an adjudicatory hearing upon written request within sixty (60) days following receipt of this Certification. This request must be in the form of a written petition conforming to Chapter 150B of the North Carolina General Statutes and filed with the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, N.C. 27699-6714. If modifications are made to an original Certification, you have the right to an adjudicatory hearing on the modifications upon written request within sixty (60) days following receipt of the Certification. Unless such demands are made, this Certification shall be final and binding.

This the 4th day of September 2009

DIVISION OF WATER QUALITY


for Coleen Sullins,
Director

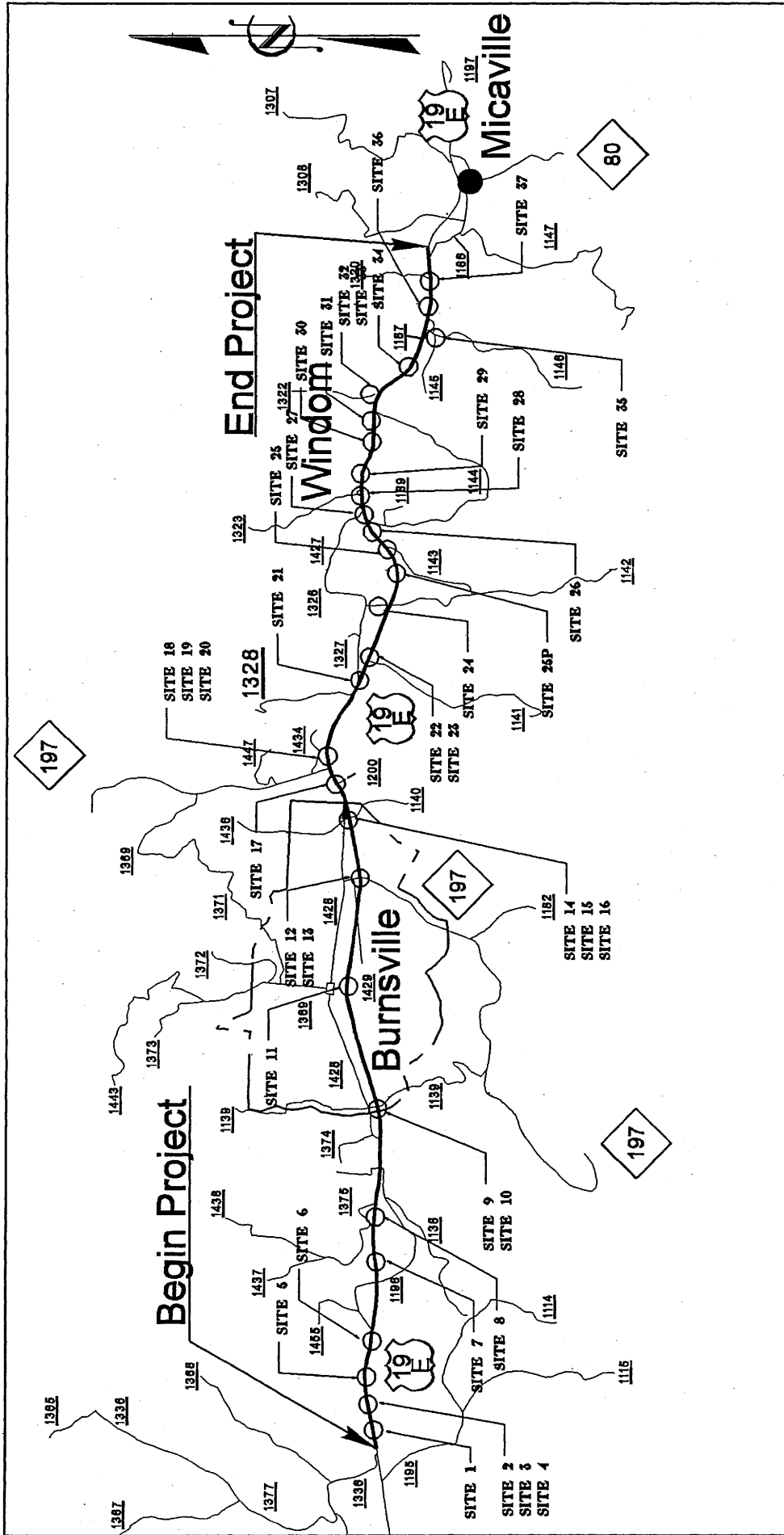
NORTH CAROLINA



VICINITY MAPS

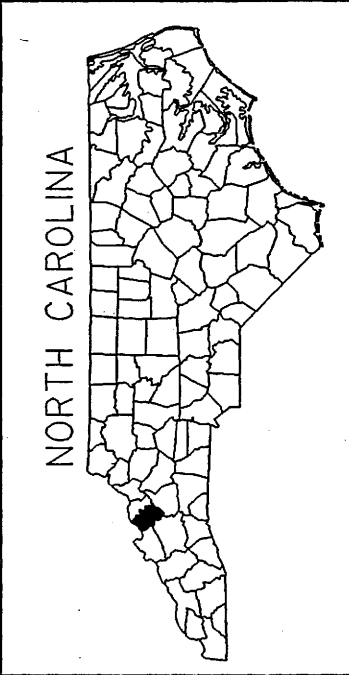
NCDOT
DIVISION OF HIGHWAYS
YANCEY COUNTY
PROJECT: WBS 35609.1.1 (R-2519A)
US 19 E EAST OF SR 1336
(JACKS CREEK ROAD) TO
SR 1186 (OLD US 19)

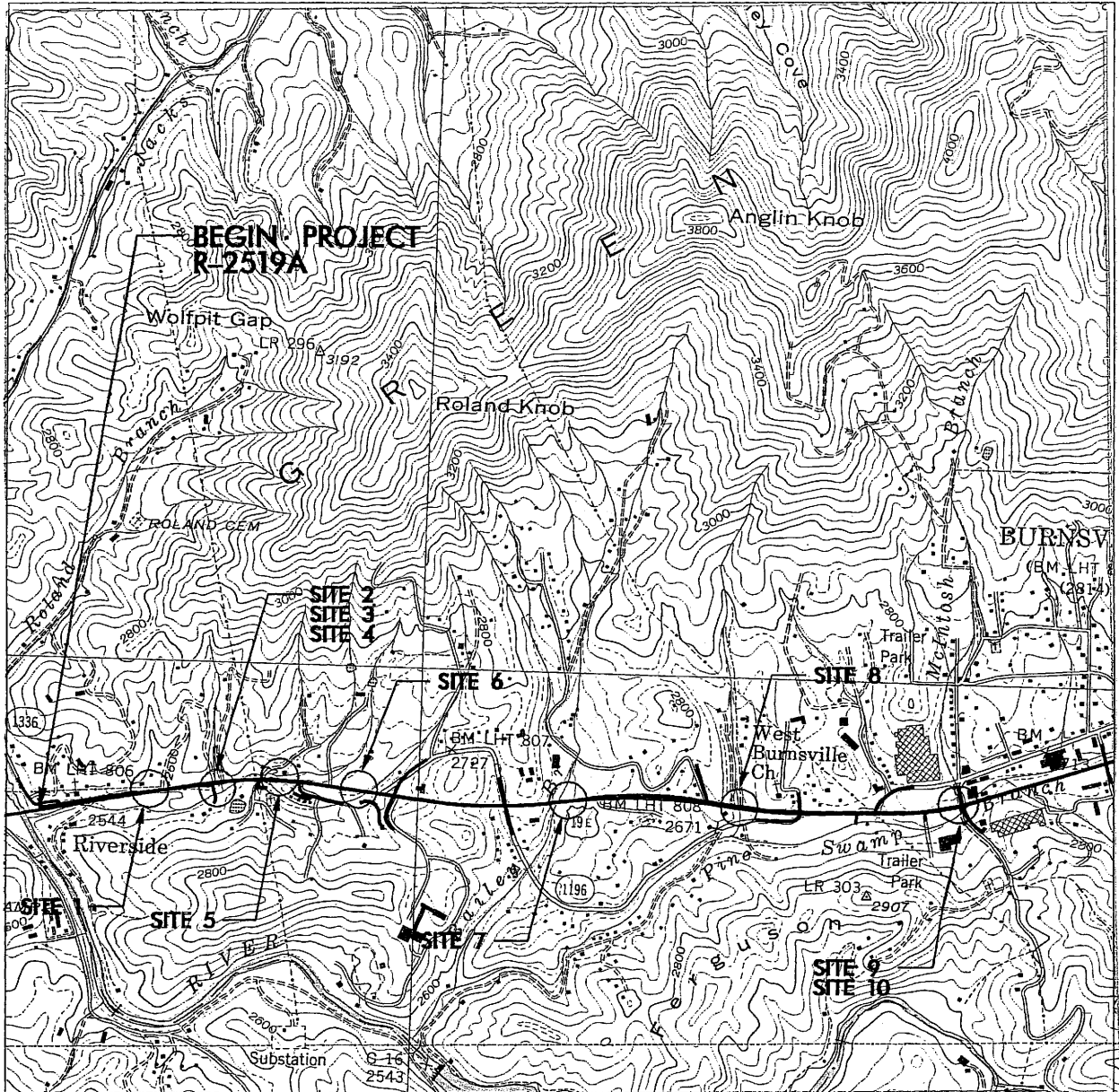
SHEET OF 11/15/06



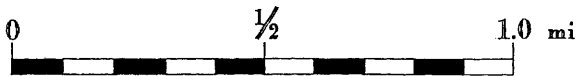
NCDOT
 DIVISION OF HIGHWAYS
 YANCEY COUNTY
 PROJECT: WBS 35609.1.1 (R-2519A)
 US 19 E EAST OF SR 1336
 (JACKS CREEK ROAD) TO
 SR 1186 (OLD US 19)

VICINITY
MAP





VICINITY MAP



BURNSVILLE, NC QUAD MAP



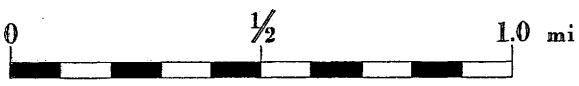
NORTH CAROLINA

NCDOT
 DIVISION OF HIGHWAYS
 YANCEY COUNTY
 PROJECT: WBS 35609.1.1 (R-2519A)
 US 19 E EAST OF
 SR 1336 (JACKS CREEK ROAD) TO
 SR 1186 (OLD US 19)

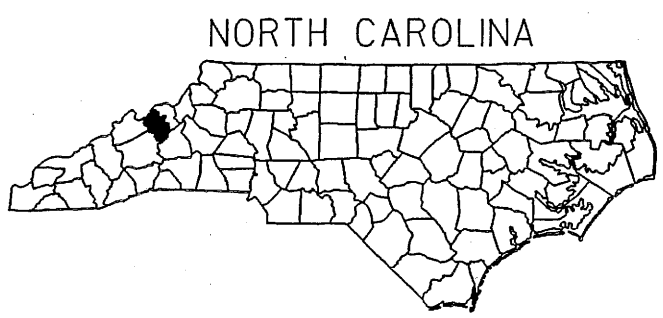
Permit Drawing
 Sheet 3 of 86



VICINITY MAP

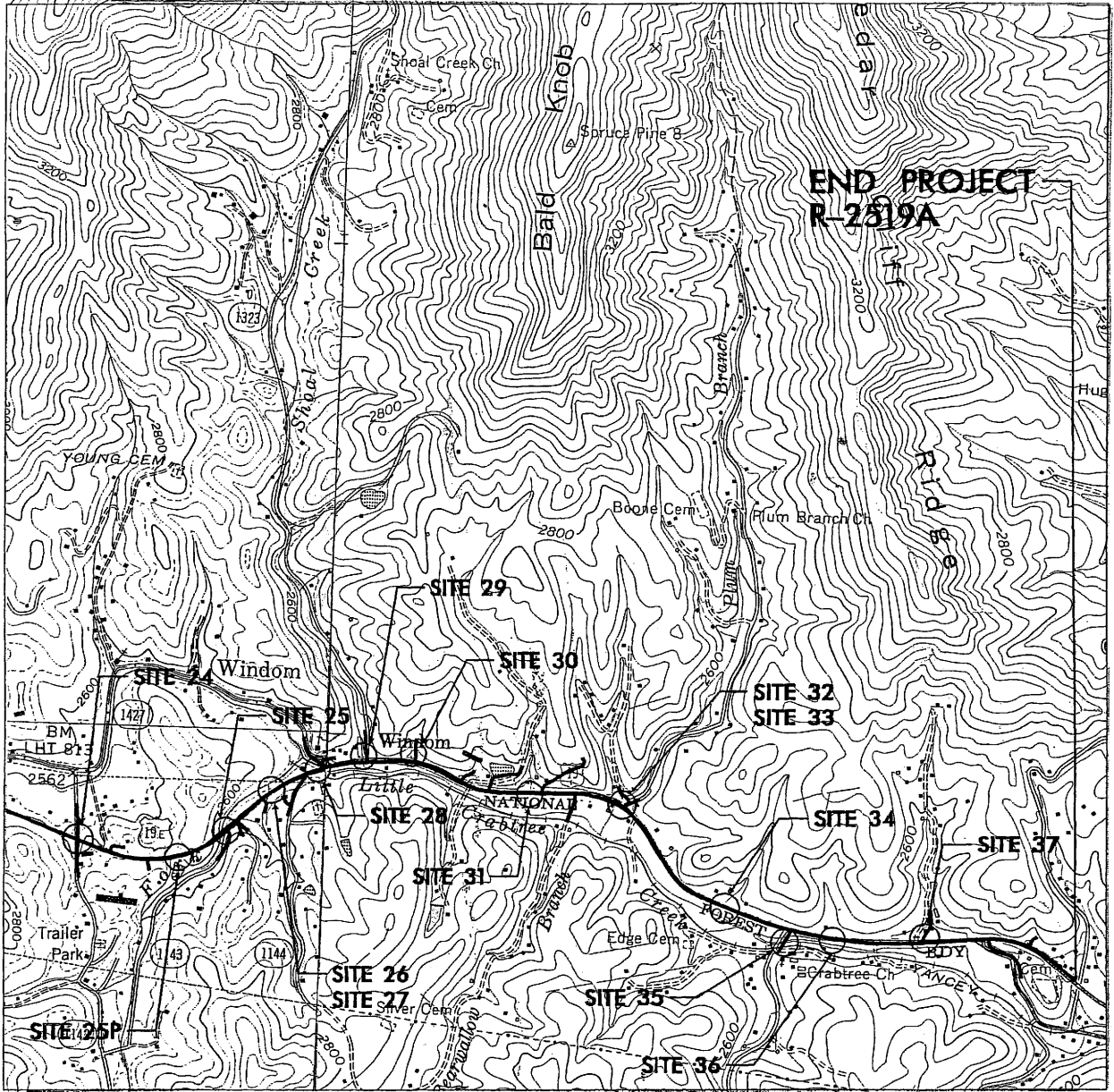


BURNSVILLE, NC QUAD MAP

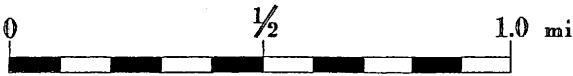


NCDOT
 DIVISION OF HIGHWAYS
 YANCEY COUNTY
 PROJECT: WBS 35609.1.1 (R-2519A)
 US 19 E EAST OF
 SR 1336 (JACKS CREEK ROAD) TO
 SR 1186 (OLD US 19)

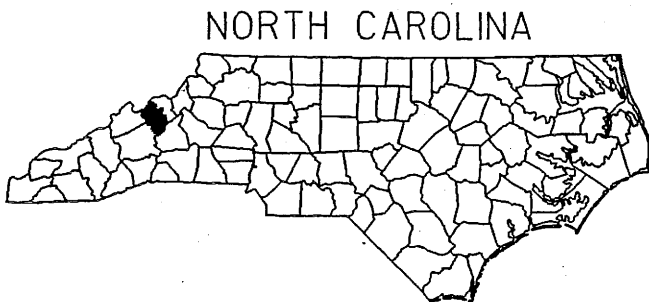
Permit Drawing
 Sheet 4 of 86



VICINITY MAP



BURNSVILLE, NC QUAD MAP
 MICAVILLE, NC QUAD MAP



NORTH CAROLINA

NCDOT
 DIVISION OF HIGHWAYS
 YANCEY COUNTY
 PROJECT: WBS 35609.1.1 (R-2519A)
 US 19 E EAST OF
 SR 1336 (JACKS CREEK ROAD) TO
 SR 1186 (OLD US 19)

SHEET OF Permit Drawing
 Sheet 5 of 86
 11/17/06

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS					
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW Impacts (ac)	Temp. SW Impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)	
1	-L- 228+50	1000mm CMP						0.01	<0.01		55	16	
1	-L- 228+50 RT	BANK STABILIZATION						<0.01			13		
2	-D1- 10+40	2.23m X 1.60m CS PIPE ARCH						0.02	<0.01		59	18	
2	-D1- 10+40 RT	BANK STABILIZATION						<0.01			26		
3	-L- 230+85	900mm CMP						0.01	<0.01		41	8	
3	-L- 230+85 RT	BANK STABILIZATION						<0.01			13		
4	-L- 231+50	1800mm CMP						<0.01	0.02		13	12	
4	-L- 231+50 RT	BANK STABILIZATION						0.01			33		
5	-L- 232+90	1500mm CMP						0.02	<0.01		83	13	
6	-L- 236+10	1400mm CMP						0.01	<0.01		51	11	
6	-L- 236+10 RT	BANK STABILIZATION						<0.01			30		
7	-L- 243+30	2100mm CMP						0.00	0.00		0	0	
8	-L- 249+65	1500mm CMP						<0.01	<0.01		19	9	
9	-D4- 10+30	2.41m X 1.70m CS PIPE ARCH						<0.01	<0.01		16	25	
9	-D4- 10+30	BANK STABILIZATION						<0.01			16		
9A	-L- 255+40 RT	BANK STABILIZATION						0.00			25		
10	-L- 257+35 / -Y10- 11+00	2@ 1.8m X 1.8m RCBC / BASIN						0.11	0.01		691	47	
10	-L- 257+35 RT	BANK STABILIZATION						<0.01			23		
11	-L- 270+55	1400mm CSP						<0.01	<0.01		13	10	
11	-L- 270+55 LT	BANK STABILIZATION						<0.01			19		
12	-Y17- 11+30	2@ 3.0m X 2.4m RCBC						0.01	<0.01		34	20	
12	-Y17- 11+30 LT/RT	BANK STABILIZATION						0.01			98		
13	-L- 279+83	1@ 2.13m X 1.52m RCBC						0.01	<0.01		66	15	
13	-L- 279+93 LT	BANK STABILIZATION						<0.01			16		
14	-L- 284+30 Lt.	2 - 2@ 3.35m X 2.74m RCBC						0.00	0.00		0	0	
14	-L- 283+96 / -L- 284+98 LT	BANK STABILIZATION						0.07			270		
SHEET TOTAL:								0.29	0.03		1723	204	

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 YANCEY COUNTY
 WBS - 35609.1.1 (R2519A)

SHEET OF

04/30/09

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS							SURFACE WATER IMPACTS				
			Permanent Fill in Wetlands (ac)	Temp. Fill in Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW Impacts (ac)	Temp. SW Impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)		
15	-L- 285+00	2@ 3.6m X 2.4m RCBC							0.02	0.01	82	38		
15	-L- 285+00 RT	BANK STABILIZATION							0.01		48			
16	-Y19- 11+60	1050mm CMP							0.01	<0.01	41	15		
17	-L- 287+60	ROADWAY FILL	0.02		0.02									
18	-L- 289+80	1@ 1.83m X 1.83m RCBC							0.01		69			
18	-L- 289+80 RT	BANK STABILIZATION							0.01		40			
19	-L- 292+10	ROADWAY FILL	0.15		0.09									
20	-L- 293+40	1200mm RCP	0.01		0.01									
21	-L- 297+60	1800mm RCP							0.01	<0.01	46	35		
21	-L- 297+60 RT	BANK STABILIZATION							<0.01		20			
22	-L- 300+90	2@ 3.05m X 2.74m RCBC							0.08	0.01	211	19		
22	-L- 301+35 LT	BANK STABILIZATION							0.01		40			
23	-L- 301+40	2@ 1.8m X 1.8m RCBC							0.01	<0.01	45	9		
23	-L- 301+40 LT	BANK STABILIZATION							0.01		87			
24	-Y26- 9+44 LT to 12+26 RT	1050mm RCP							0.06	0.00	535	0		
25	-L- 312+60	2@ 2.13m X 1.83m RCBC							0.03	0.01	186	34		
26	-L- 314+05 to 315+67	STREAM RELOCATION							0.11	<0.01	583	11	580	
27	-L- 314+40	1500mm RCP							0.02	<0.01	143	11		
28	-L- 316+60	4@ 3.05m X 2.44m RCBC							0.02	0.02	42	58		
28	-L- 316+60 LT / RT	BANK STABILIZATION							0.04		133			
29	-L- 318+15	2@ 2.44m X 2.13m RCBC							0.06	<0.01	294	14	233	
30	-L- 320+10	1200mm CMP							0.02	<0.01	200	7		
31	-L- 324+50	1500mm RCP/CMP							0.01	<0.01	40	20		
31	-L- 324+50 RT	BANK STABILIZATION							<0.01		14			
32	-Y33- 9+90 to 10+40	STREAM RELOCATION							0.03	<0.01	217	10	210	
33	-L- 327+90	1@ 3.0m X 1.8m RCBC							0.05	<0.01	325	26	157	
SHEET TOTAL:			0.18		0.12				0.63	0.05	3441	307	1180	

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
YANCEY COUNTY
WBS - 35609.1.1 (R2519A)

SHEET OF 03/13/09

NOTE: SITE 25P --> FILL IN ISOLATED POND (-L- 310+60 RT) - 0.040 ac

Permit Drawing
Sheet 7 of 86

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS						
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW Impacts (ac)	Temp. SW Impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)		
34	-L- 333+15	1350mm RCP / 1200mm RCP								0.05	<0.01	208	20	
35	-Y34- 10+51	3@ 3.35m X 3.05m RCBC								0.02	0.01	18	20	
35	-Y34- 10+51 LT / RT	BANK STABILIZATION								0.03		55		
36	-L- 337+25	1350mm RCP								<0.01	<0.01	24	12	
37	-L- 340+50	1500mm RCP								0.01	<0.01	59	10	
SHEET TOTAL:			0.18							1.03	0.09	364	62	1180
PROJECT TOTAL:														

NOTE: TOTAL PERMANENT STREAM IMPACTS DUE TO BANK STABILIZATION = 1017 FT

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 YANCEY COUNTY
 WBS - 35609.1.1 (R2519A)

SHEET OF 03/13/09

Permit Drawing
 Sheet 8 of 26

Site No.	Property Owner Name	Property Owner Address	Parcel Number
1	Gary Adkins Norman Rabek	Rt. 1 Box 406, Burnsville, NC 28714	4
		Rt. 8 Box 842, Burnsville, NC 28714	2
2	Clarence Ball Rose Marilyn Angel	Rt. 10 Box 613, Burnsville, NC 28714	6
		Rt. 3 Box 199, Burnsville, NC 28714	9
3	Rose Marilyn Angel	Rt. 3 Box 199, Burnsville, NC 28714	9
4	Rose Marilyn Angel	Rt. 3 Box 199, Burnsville, NC 28714	9
5	Zula Wheeler Jerry Jerome McIntosh	Rt. 1 Box 256, Burnsville, NC 28714	12
		Rt. 10 Box 94, Burnsville, NC 28714	13
6	Vicki Banks Tipton	Rt. 10 Box 78, Burnsville, NC 28714	16
7	Freda Bryson Charles Phillip Styles	619 Norwood Street, Shelby, NC 28150	28
		Rt. 10 Box 814, Burnsville, NC 28714	25
8	Bryant's Land and Development Ind. Ordie Brown	N/A	34
		950 W. 19E, Burnsville, NC 28714	35
9	Yancey Mobile Home Sales, Inc.	P.O. Box 278, Burnsville, NC 28714	49
10	High Five Hospitality Holdings, LLC Properties on Main, LLC Charles Neill Ellis	N/A	90
		N/A	52
		P.O. Box 278, Burnsville, NC 28714	51
11	Yancey County	Room 11 Courthouse, Burnsville, NC 28714	79
12	Frank Fox Wallace B. Edge	404 Pensacola Road, Burnsville, NC 28714	102
		P.O. Box 804, Burnsville, NC 28704	103
13	Eloise Briggs E.J. Roland	P.O. Box 835, Burnsville, NC 28714	104
		P.O. Box 234, Burnsville, NC 28714	105
14	S.C.N. Enterprises	P.O. Box 309, Naples, NC 28760	115
15	David McIntosh	P.O. Box 728, Burnsville, NC 28714	118
16	Samuel S. Styles	P.O. Box 534, Burnsville, NC 28714	117
17	Yancey County	Room 11 Courthouse, Burnsville, NC 28714	122
18	Glen Raven Silk Mills, Inc. Yancey County	Drawer 100, Burnsville, NC 28714	123
		Room 11 Courthouse, Burnsville, NC 28714	122
19	Yancey Railroad Company	C/O Walter Klements, 3127 Ponce De Leon Blvd, Coral Gables, FL 33134	129

List of Property Owners

NC Dept. of Transportation
Division of Highways
Yancey County
Project: WBS 35609.1.1 (R-2519A)

US 19 E East of SR 1336
(Jacks Creek Road) to SR 1186 (Old US 19)

Sheet of 11/13/06

Site No.	Property Owner Name	Property Owner Address	Parcel Number
19	Yancey County	Room 11 Courthouse, Burnsville, NC 28714	122
20	Catalano Family Limited Partnership	3100 Airport West Drive, Vero Beach, FL 32960	135
	Grady P. Melton	Rt. 8 Box 50, Burnsville, NC 28714	133
21	Charles Junior Peterson	P.O. Box 712, Burnsville, NC 28714	145
	Jay (Hannah) Styles	Rt. 8 Box 80, Burnsville, NC 28714	144
22	Yancey County	Room 11 Courthouse, Burnsville, NC 28714	155
	Farrell Hughes	Rt. 8 Box 230, Burnsville, NC 28714	156
	Quality Oil Company	N/A	152A
23	Danny Leece Gouge	Rt. 8 Box 103, Burnsville, NC 28714	153
	Farrell Hughes	Rt. 8 Box 230, Burnsville, NC 28714	156
24	Dorothy Deyton	Rt. 8 Box 100, Burnsville, NC 28714	157
	Zenus Elkins	N/A	238
25	Yancey Railroad Company	C/O Walter Klements, 3127 Ponce De Leon Blvd, Coral Gables, FL 33134	129
	S. Gail Crisp	N/A	165
	Rodney D. Shepard	Rt. 8 Box 1250, Burnsville, NC 28714	166
	Edds Independent Station	Rt. 6 Box 152, Burnsville, NC 28714	167
	William Harold Presnell	Rt. 7 Box 778, Burnsville, NC 28714	162
26	Johnny Bennett	Georges Fork Road, Burnsville, NC 28714	169
	Norman Evans	143 Bear Wallow Road, Burnsville, NC 28714	179
25P	Shoal Creek Baptist Church	N/A	178
	Eugene Styles	Rt. 8 Box 525, Burnsville, NC 28714	174
27	Shoal Creek Baptist Church	N/A	178
	Norma P. Evans	P.O. Box 23, Burnsville, NC 28714	185
	Roger F. Penland	P.O. Box 741, Burnsville, NC 28714	186
28	Elizabeth Young Huskins	Rt. 8 Box 549, Burnsville, NC 28714	187
	Norman Evans	143 Bear Wallow Road, Burnsville, NC 28714	233
29	Lewis J. McEntyre, Jr.	607 West By-Pass, Burnsville, NC 28714	189
	William Ray Young	Rt. 8 Box 230, Burnsville, NC 28714	194
30	Betty Revis	58 Ranchview Acres, Candler, NC 28715	195
	Lillian Robinson	16 Prospect Street, Asheville, NC 28804	197
31	Beulah Hughes	N/A	201
	Dewey Pate, Jr.	Rt. 2 Box 5, Burnsville, NC 28714	198
	Allen D. Boone	Rt. 2 Box 8, Burnsville, NC 28714	236

List of Property Owners

NC Dept. of Transportation
Division of Highways
Yancey County
Project: WBS 35609.1.1 (R-2519A)

US 19 E East of SR 1336
(Jacks Creek Road) to SR 1186 (Old US 19)

Site No.	Property Owner Name	Property Owner Address	Parcel Number
32	Carrie Blevins	Rt. 8 Box 951, Burnsville, NC 28714	206
33	Carrie Blevins	Rt. 8 Box 951, Burnsville, NC 28714	206
34	Charles R. Dellinger	317 Hillside Drive, Burnsville, NC 28714	214
35	Crabtree Baptist Church	Rt. 2, Burnsville, NC 28714	216
	Charles R. Dellinger	317 Hillside Drive, Burnsville, NC 28714	214
	James Luther Thomas	P.O. Box 89, Micaville, NC 28755	215
36	Jennings E. Ray	Rt. 2 Box 1165, Burnsville, NC 28714	218
37	Ovel Tomberlin	Rt. 2 Box 1164, Burnsville, NC 28714	223

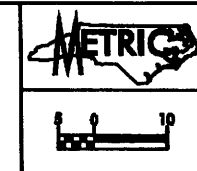
List of Property Owners

NC Dept. of Transportation
 Division of Highways
 Yancey County
 Project: WBS 35609.1.1 (R-2519A)

US 19 E East of SR 1336
 (Jacks Creek Road) to SR 1186 (Old US 19)

Sheet of

11/13/06

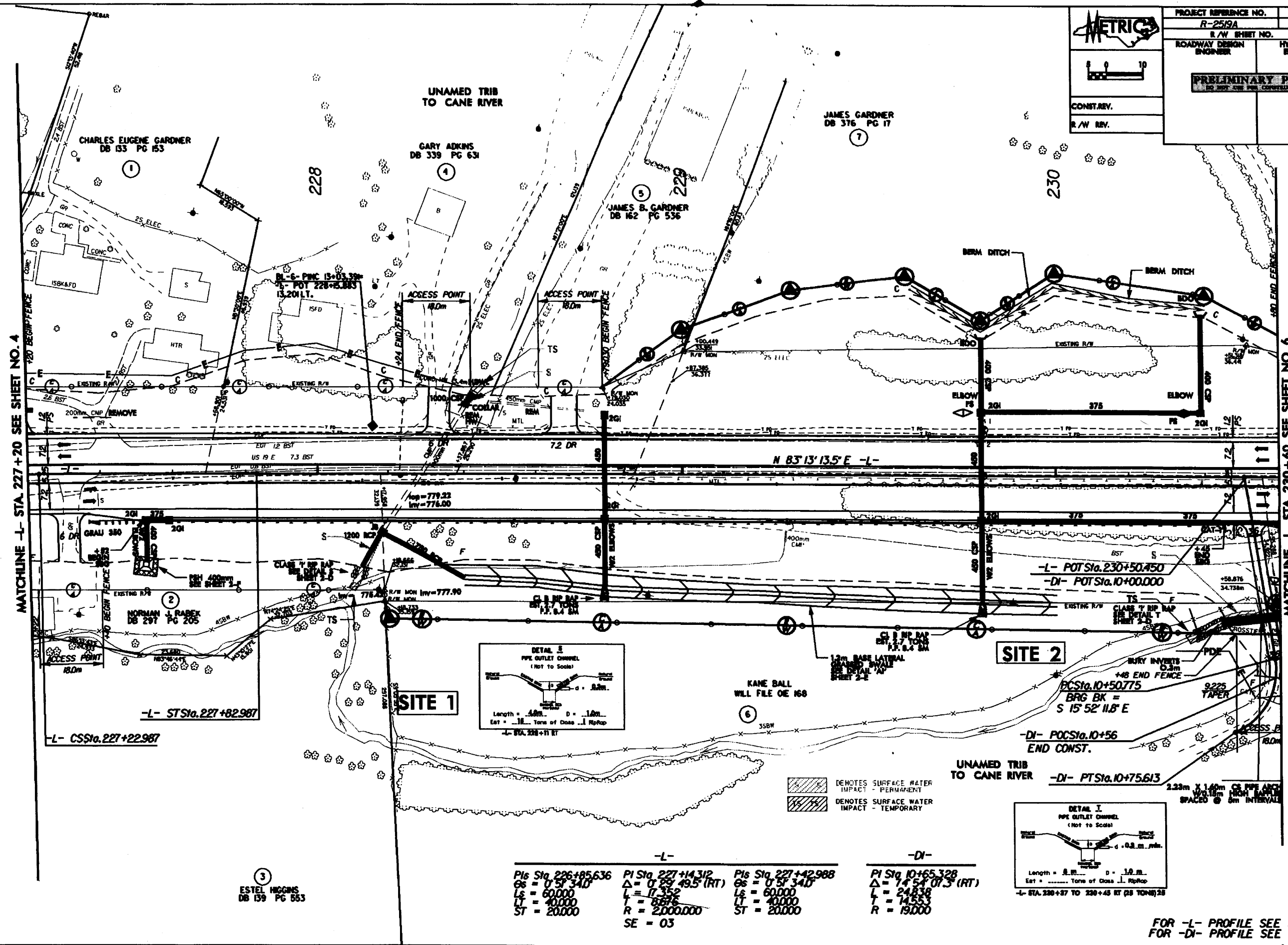


PROJECT REFERENCE NO.	SHEET NO.
R-2519A	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS	
FOR APPROVAL BY THE CONSULTANT	

CONST. REV.
R/W REV.

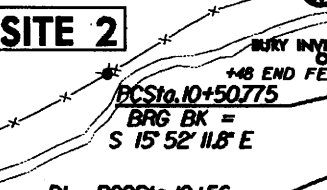
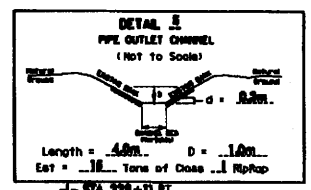


R/W REV. 11/18/05 (T.M.V.) MOVED DRIVEWAY & ACCESS POINT FROM STA 226+96 TO STA 227+31 ON PARCEL 2; REVISED PROPERTY OWNER NAME & DEED BOOK INFORMATION ON PARCEL 2; REVISED E.A.S.T. TO NUMERICAL OFFSET.
 R/W REV. 05/16/07 (B.C.S.) REVISED PROPERTY OWNER NAME & DEED BOOK INFORMATION ON PARCEL 6 & PARCEL 7.
 R/W REV. 10/25/07 (R.V.P.) REMOVED PROP. R/W ON PARCEL 2.



MATCHLINE -L- STA. 227 + 20 SEE SHEET NO. 4

MATCHLINE -L- STA. 230 + 60 SEE SHEET NO. 6



DENOTES SURFACE WATER IMPACT - PERMANENT
 DENOTES SURFACE WATER IMPACT - TEMPORARY

-L- PIs Sta. 226+85.636 Gs = 0' 51' 34.0" Ls = 60.000 Lt = 40.000 ST = 20.000	-L- PI Sta. 227+14.312 $\Delta = 0' 59' 49.5"$ (RT) $L = 17' 35.2"$ $Lt = 8.576$ $R = 2,000,000$ SE = 03	-L- PIs Sta. 227+42.988 Gs = 0' 51' 34.0" Ls = 60.000 Lt = 40.000 ST = 20.000	-DI- PI Sta. 10+65.328 $\Delta = 14' 54' 07.3"$ (RT) $L = 24.838$ $Lt = 14.553$ $R = 19,000$
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FOR -L- PROFILE SEE SHEET 44
FOR -DI- PROFILE SEE SHEET 72

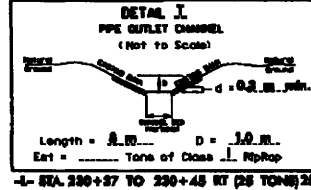
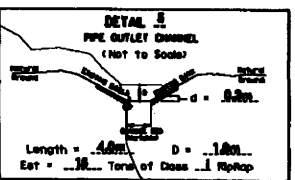
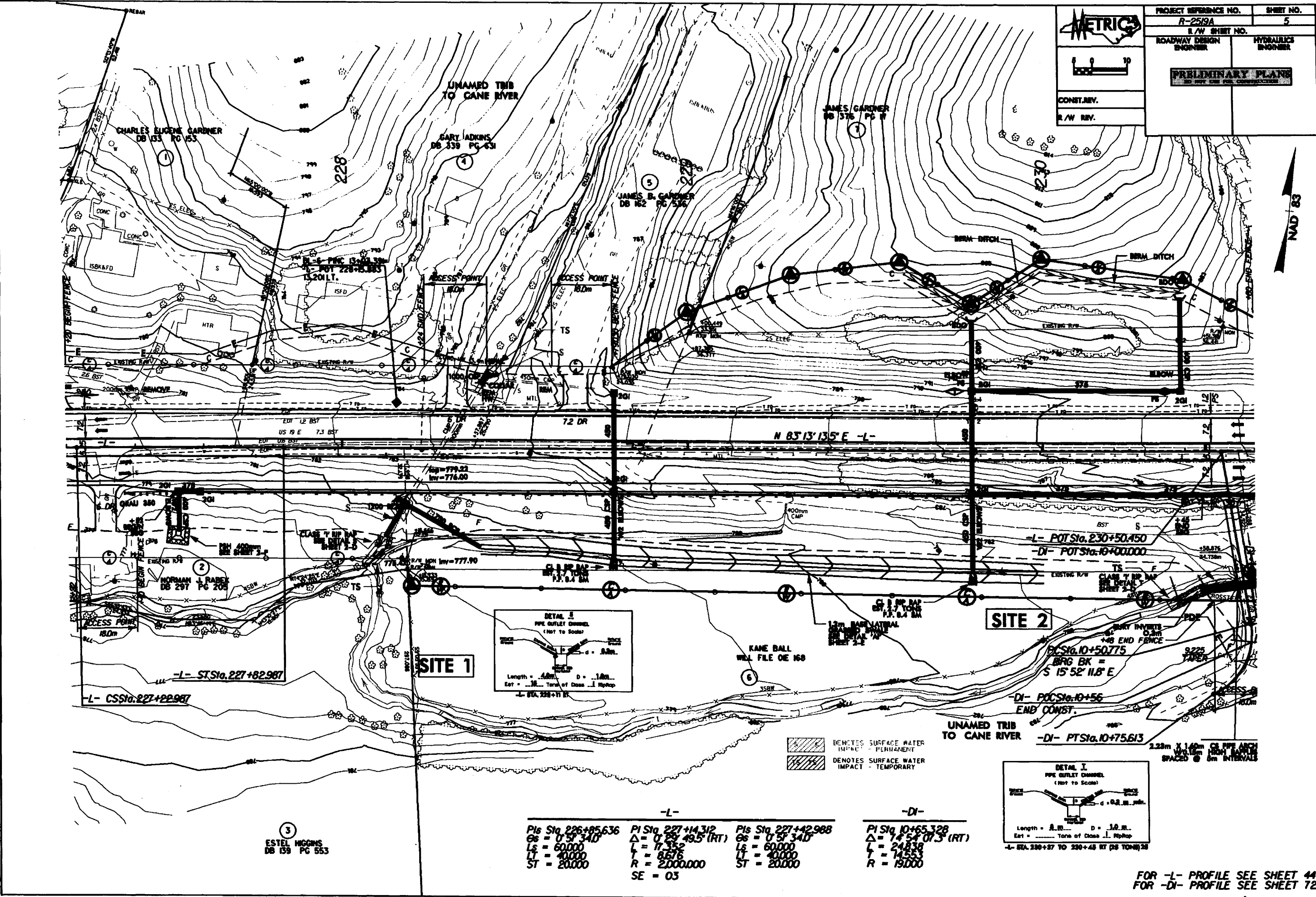
Permit Drawing
12 - 86

METRIC

CONST. REV.
R/W REV.

PROJECT REFERENCE NO. R-2519A	SHEET NO. 5
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS	

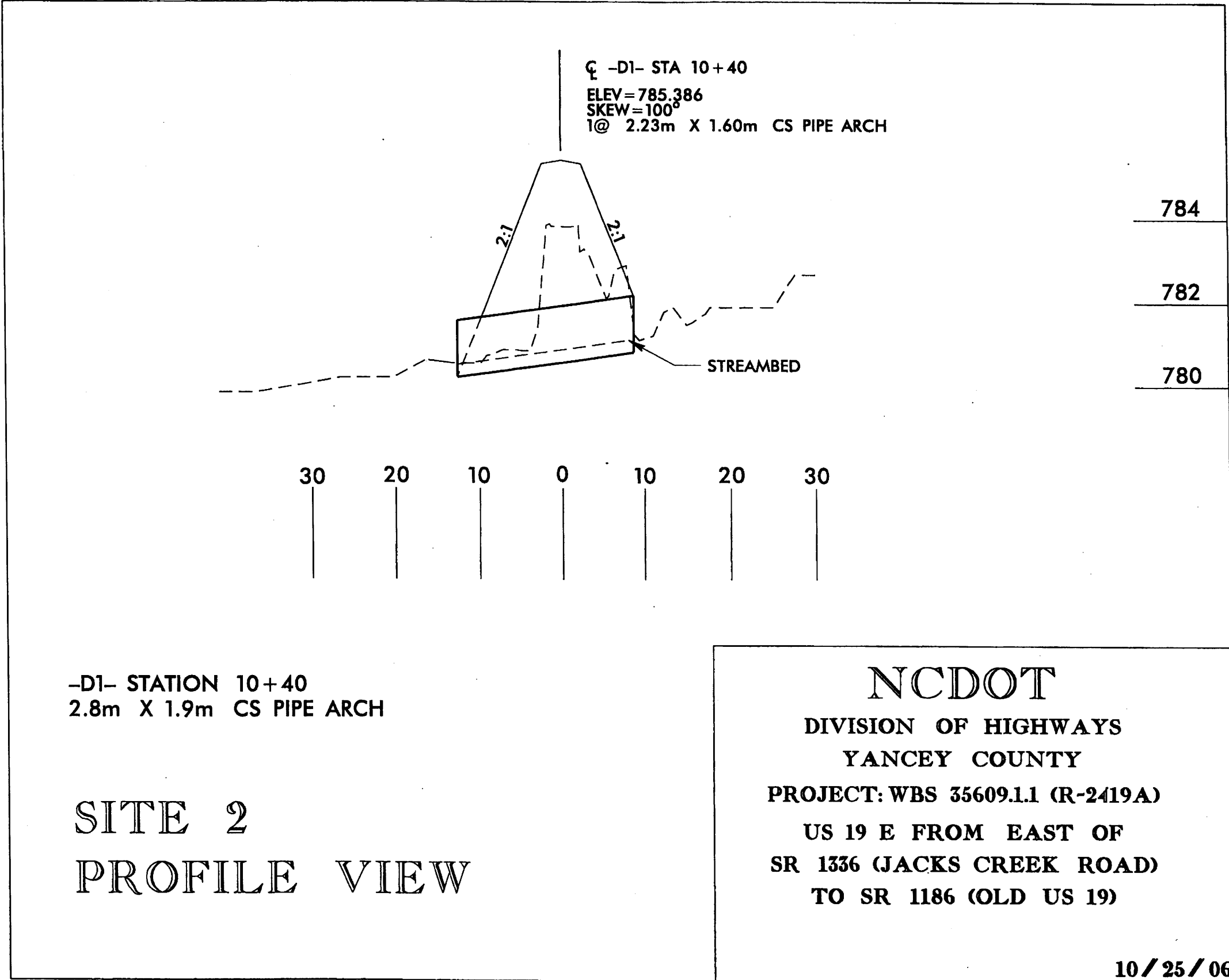
R/W REV. 11/18/05 (T.M.V.), MOVED DRIVEWAY & ACCESS POINT FROM STA 226+96 TO STA 227+31 ON PARCEL 2; REVISED PROPERTY OWNER NAME & DEED BOOK INFORMATION ON PARCEL 4; REVISED EXISTING R/W TO NUMERICAL OFFSET.
 R/W REV. 06/16/07 (B.C.S.); REVISED PROPERTY OWNER NAME & DEED BOOK INFORMATION ON PARCEL 6 & PARCEL 7.
 R/W REV. 07/25/07 (R.V.P.); REMOVED PROP. ROW ON PARCEL 2.



-L-			-DI-		
PIs Sta 226+85.636	PI Sta 227+14.312	PIs Sta 227+42.988	PI Sta 10+65.328		
Gs = 0.51340	$\Delta = 0.29495$ (RT)	Gs = 0.51340	$\Delta = 14.54073$ (RT)		
Ls = 60.000	L = 17.352	Ls = 60.000	L = 24.838		
Lt = 40.000	T = 8.676	Lt = 40.000	T = 14.553		
ST = 20.000	R = 2,000,000	ST = 20.000	R = 19,000		
	SE = 03				

FOR -L- PROFILE SEE SHEET 44
FOR -DI- PROFILE SEE SHEET 72

Permit Drawing
13 - 56

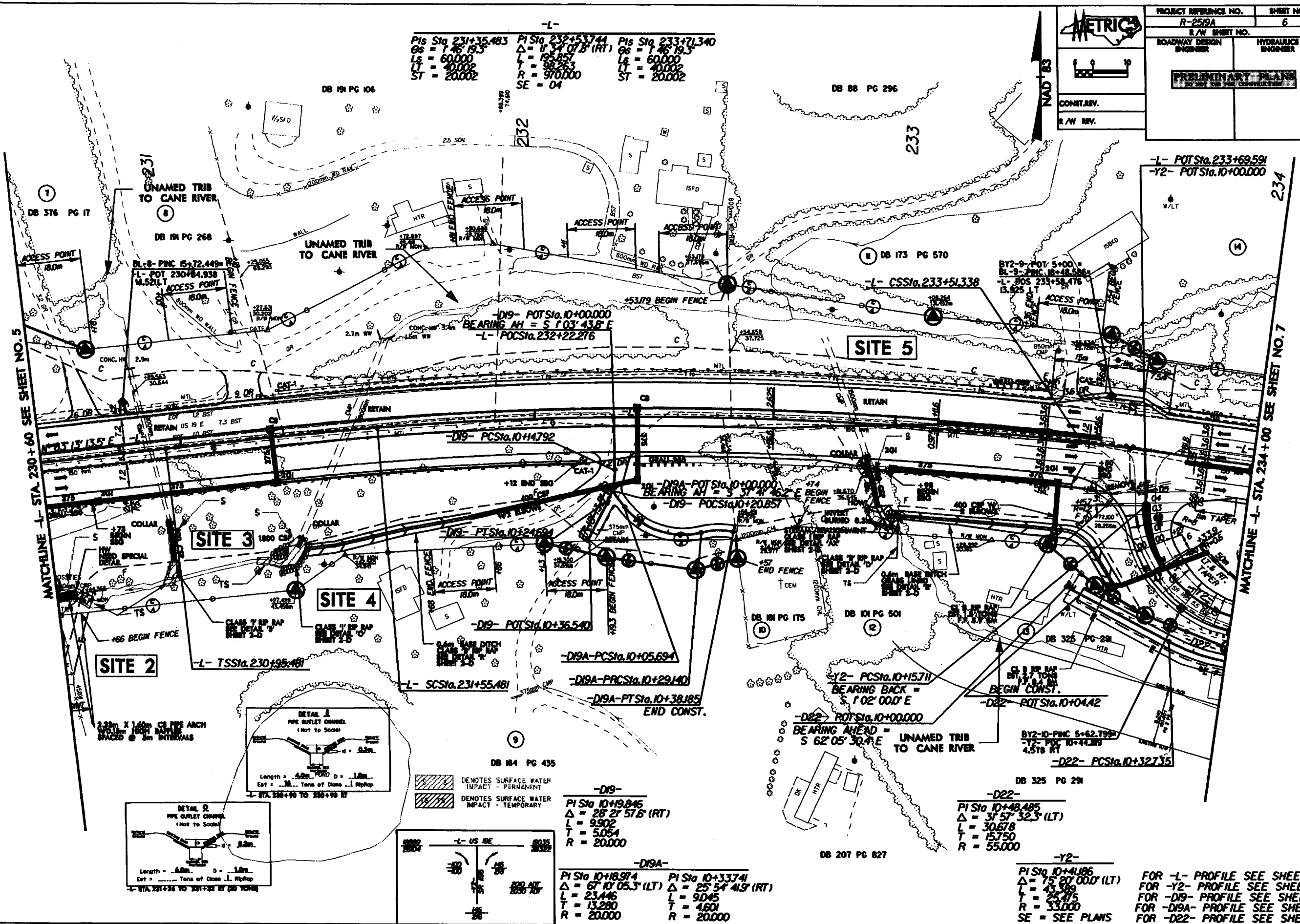


PROJECT REFERENCE NO.		SHEET NO.	
R-2519A		6	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS			
CONST. REV.			
R/W REV.			

NAD 83

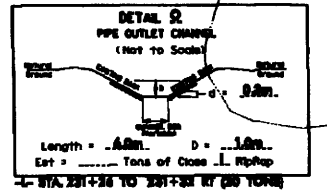
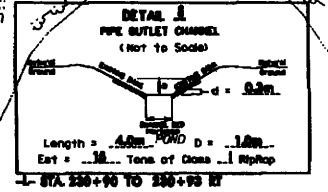
-L-
 PIs Sta 231+35.483 PI Sta 232+53.744 PIs Sta 233+71.340
 Gs = 1.46 19.3 Δ = 11 54' 07.8" (RT) Gs = 1.46 19.3
 Ls = 60.000 L = 195.837 Ls = 60.000
 Lt = 40.002 Lt = 98.263 Lt = 40.002
 ST = 20.002 SE = 04 ST = 20.002

REVISIONS
 R/W REV. 11/18/05 (R/W) ADDED DRIVEWAY -D9- AND -D9A- FOR PARCEL 10 ADDED PROPOSED R/W ON PARCEL 9; ADDED DRIVEWAY -D22- FOR PARCEL 13; REVISED PROPOSED R/W AND CONSTRUCTION EASEMENTS ON PARCEL 13; REVISED EXIST. R/W TO NUMERICAL OFFSET.
 R/W REV. 05/16/07 (R/W) REVISED PROPERTY OWNER NAME AND DEED BOOK INFORMATION ON PARCEL 7.
 R/W REV. 09/05/07 (T/M) REVISED PROPERTY OWNER DEED BOOK INFORMATION ON PARCEL 13.

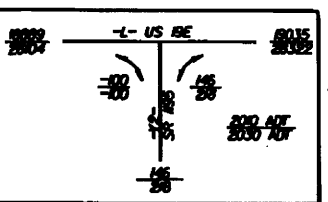


MATCHLINE -L- STA. 230+60 SEE SHEET NO. 5

MATCHLINE -L- STA. 234+00 SEE SHEET NO. 7



DB 184 PG 435
 DENOTES SURFACE WATER IMPACT - PERMANENT
 DENOTES SURFACE WATER IMPACT - TEMPORARY



-D19-
 PI Sta 10+19.846
 Δ = 28 21' 57.8" (RT)
 L = 9.902
 T = 5.054
 R = 20.000

-D19A-
 PI Sta 10+18.974 Δ = 67 10' 05.3" (LT) L = 23.446 T = 13.280 R = 20.000
 PI Sta 10+33.741 Δ = 25 54' 41.9" (RT) L = 9.045 T = 4.601 R = 20.000

-D22-
 PI Sta 10+48.485
 Δ = 31 57' 32.3" (LT)
 L = 30.678
 T = 15.750
 R = 55.000

-Y2-
 PI Sta 10+41.86
 Δ = 75 20' 00.0" (LT)
 L = 45.589
 T = 25.475
 R = 33.000
 SE = SEE PLANS

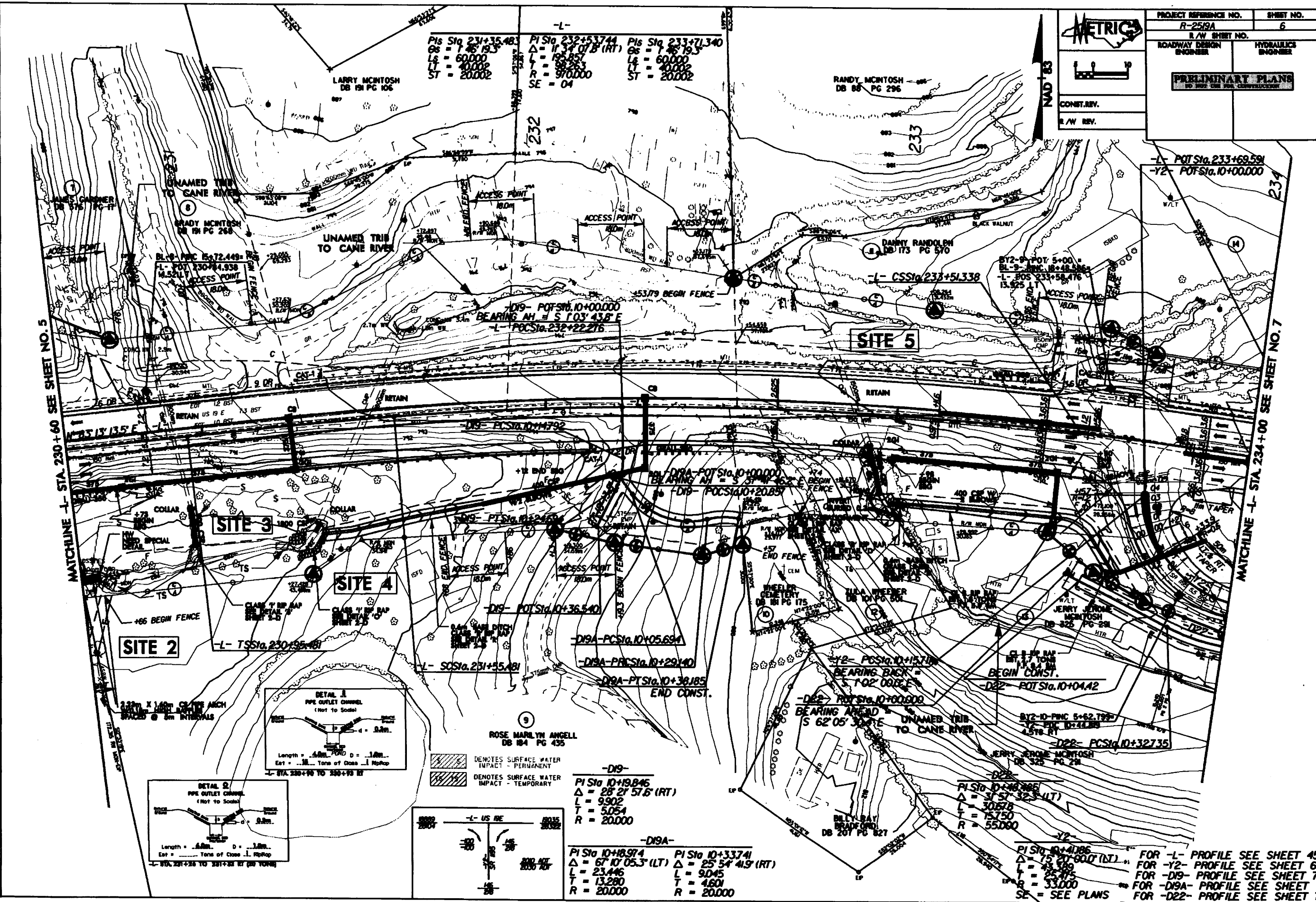
FOR -L- PROFILE SEE SHEET 45
 FOR -Y2- PROFILE SEE SHEET 62
 FOR -D19- PROFILE SEE SHEET 76
 FOR -D19A- PROFILE SEE SHEET 76
 FOR -D22- PROFILE SEE SHEET 77

Permit Drawing

CONST. REV.
R/W REV.

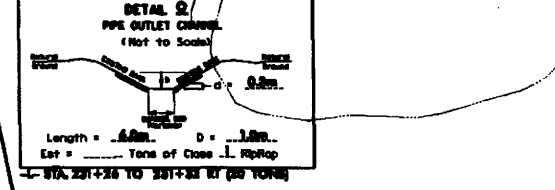
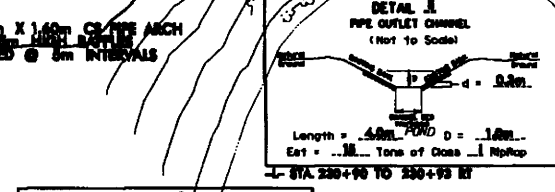
PROJECT REFERENCE NO. R-2519A	SHEET NO. 6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS	

R/W REV. 11/18/05 (R/WP) ADDED DRIVEWAY -D2- AND -D2A- FOR PARCEL 10 ADDED PROPOSED R/W ON PARCEL 9 ADDED DRIVEWAY
 -D22- FOR PARCEL 13; REVISED PROPOSED R/W AND CONSTRUCTION EASEMENTS ON PARCEL 13; REVISED EXIST. R/W TO NUMERICAL OFFSET.
 R/W REV. 05/16/07 (BSSA) REVISED PROPERTY OWNER NAME AND DEED BOOK INFORMATION ON PARCEL 7.
 R/W REV. 09/05/07 (TMA) REVISED PROPERTY OWNER DEED BOOK INFORMATION ON PARCEL 13.

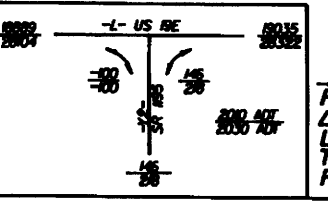


MATCHLINE -L- STA. 230+60 SEE SHEET NO. 5

MATCHLINE -L- STA. 234+00 SEE SHEET NO. 7



DENOTES SURFACE WATER IMPACT - PERMANENT
 DENOTES SURFACE WATER IMPACT - TEMPORARY



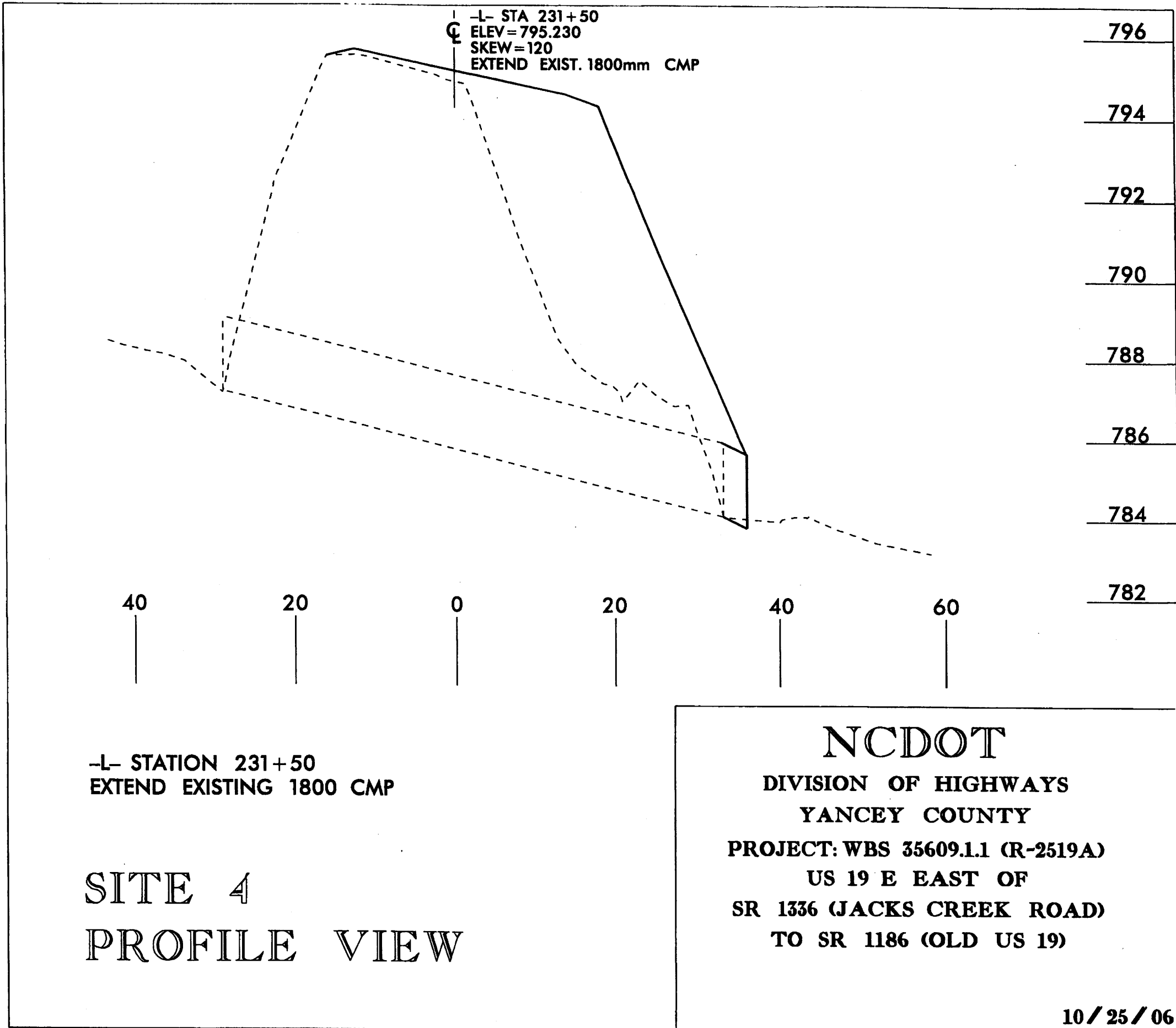
-D19-
 PI Sta 10+19.846
 $\Delta = 28' 21'' 57.6'' (RT)$
 L = 9902
 T = 5.054
 R = 20.000

-D19A-

PI Sta 10+18.974 $\Delta = 67' 10'' 05.3'' (LT)$ L = 23.446 T = 13.280 R = 20.000	PI Sta 10+33.741 $\Delta = 25' 54'' 41.9'' (RT)$ L = 9.045 T = 4.601 R = 20.000
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FOR -L- PROFILE SEE SHEET 45
 FOR -Y2- PROFILE SEE SHEET 62
 FOR -D19- PROFILE SEE SHEET 76
 FOR -D19A- PROFILE SEE SHEET 76
 FOR -D22- PROFILE SEE SHEET 77
 SE = SEE PLANS

Permit Drawing



C -L- STA. 232+90
 ELEV=800.109
 SKEW=68
 EXTEND EXISTING 1500mm CMP

802

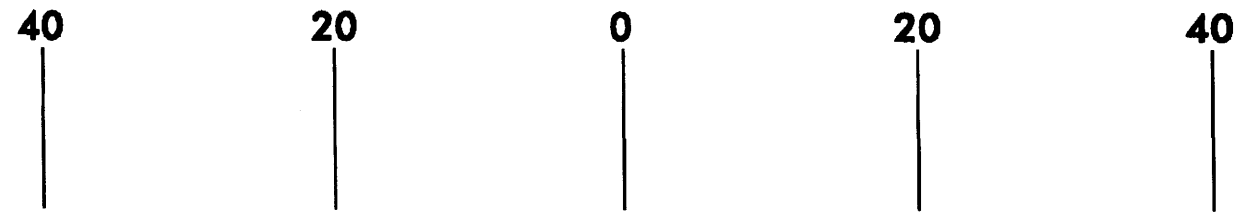
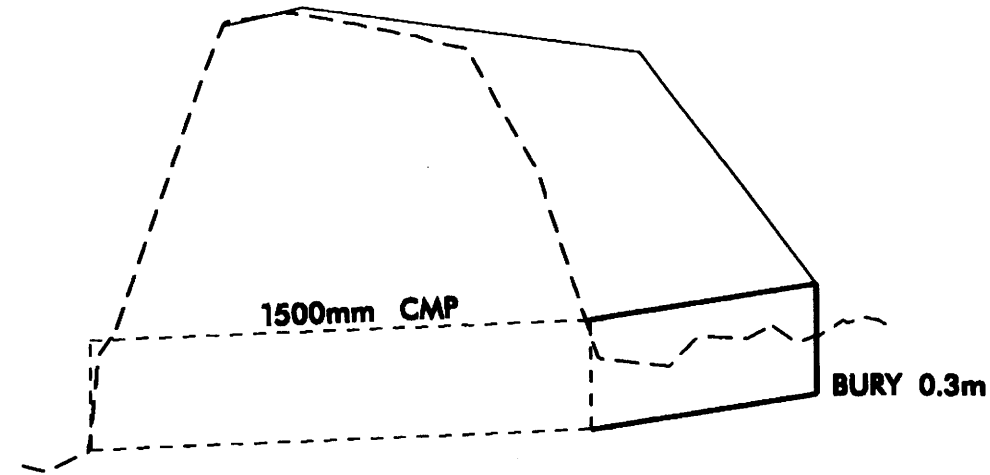
800

798

796

794

792



-L- STATION 232+90
 EXTEND w/1500mm CMP

SITE 5
 PROFILE VIEW

NCDOT

DIVISION OF HIGHWAYS
 YANCEY COUNTY

PROJECT: WBS 35609.1.1 (R-2519A)

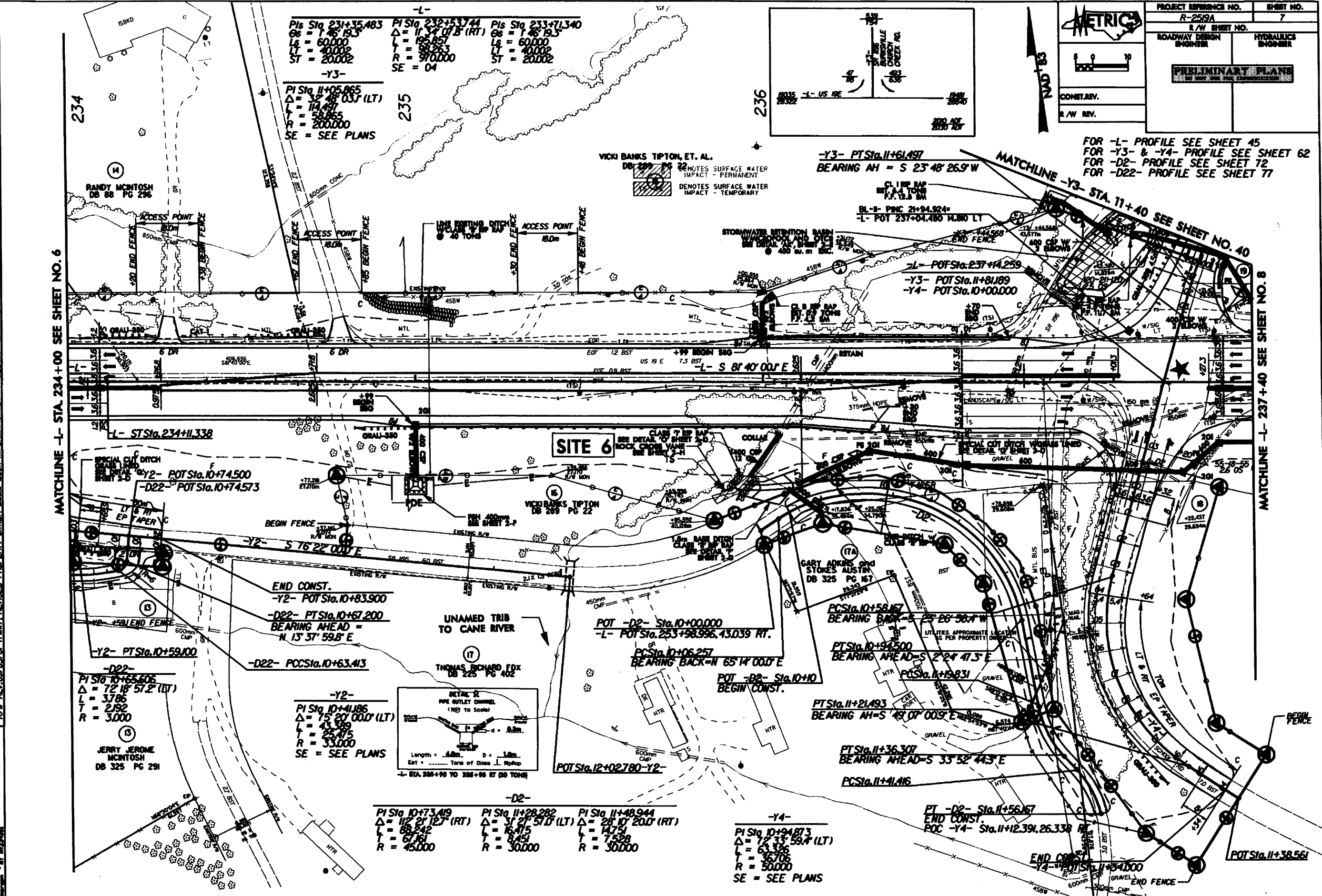
US 19 E EAST OF
 SR 1336 (JACKS CREEK ROAD)
 TO SR 1186 (OLD US 19)

03 / 12 / 09

PROJECT REFERENCE NO.		SHEET NO.	
R-251A		7	
E/W SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS			
CONST. REV.			
E/W REV.			

FOR -L- PROFILE SEE SHEET 45
 FOR -Y3- & -Y4- PROFILE SEE SHEET 62
 FOR -D2- PROFILE SEE SHEET 72
 FOR -D22- PROFILE SEE SHEET 77

R/W REV. 11/18/05 (TMM); ADDED DRIVEWAY -D22- FOR PARCEL 13; REVISED PROPOSED R/W & CONSTRUCTION ELEMENTS ON PARCEL 13; ADDED PARCEL NUMBER 13; ADDED DRIVEWAY -D2- FOR PARCEL 17; REVISED PROPOSED R/W ON PARCELS 17, 18 & 19; REVISED EXIST. R/W TO NUMERICAL SETBACK; R/W REV. 02/27/06 (TMM); ADDED PAVED SHOULDER & EXPOSED GUTTER & REVISED PROPOSED R/W & CONSTRUCTION ELEMENTS ON PARCELS 17, 18 & 19; ADDED CONFLICTS ON PARCEL 17 & 18; R/W REV. 07/30/06 (TMM); REVISED PROPOSED R/W ON PARCELS 17, 18 & 19; ADDED CONFLICTS ON PARCELS 17, 18 & 19; R/W REV. 08/05/07 (TMM); REVISED PROPERTY OWNER DEED BEAR INFORMATION ON PARCEL 13; REVISED PROPERTY OWNER NAME & ADDED ACCESS POINT ON PARCEL 15.



-L-
 PIs Sta. 231+35.483 PIs Sta. 232+53.744 PIs Sta. 233+71.340
 Δ = 1° 46' 19.3" Δ = 1° 47' 01.8" (RT) Δ = 1° 46' 19.3"
 L = 60.000 L = 60.000 L = 60.000
 T = 40.002 T = 40.002 T = 40.002
 R = 200.002 R = 200.000 R = 200.002
 SE = 04

-Y3-
 PIs Sta. 11+05.865
 Δ = 32° 48' 03.7" (LT)
 L = 114.497
 T = 58.855
 R = 200.000
 SE = SEE PLANS

MATCHLINE -L- STA. 234+00 SEE SHEET NO. 6

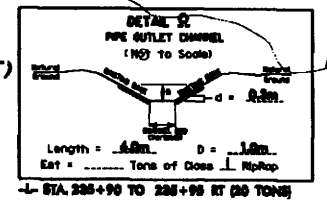
MATCHLINE -Y3- STA. 11+40 SEE SHEET NO. 40

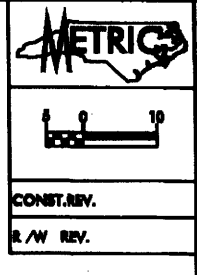
-D22-
 PIs Sta. 10+65.606
 Δ = 72° 18' 57.2" (LT)
 L = 37.86
 T = 21.92
 R = 3.000

-Y2-
 PIs Sta. 10+41.86
 Δ = 75° 20' 00.0" (LT)
 L = 43.549
 T = 25.475
 R = 33.000
 SE = SEE PLANS

-D2-
 PIs Sta. 10+73.419 PIs Sta. 11+28.282 PIs Sta. 11+48.944
 Δ = 112° 21' 12.7" (RT) Δ = 31° 27' 57.0" (LT) Δ = 28° 10' 20.0" (RT)
 L = 88.242 L = 16.415 L = 14.751
 T = 67.161 T = 8.451 T = 7.528
 R = 45.000 R = 30.000 R = 30.000

-Y4-
 PIs Sta. 10+94.873
 Δ = 72° 18' 59.4" (LT)
 L = 63.326
 T = 36.706
 R = 50.000
 SE = SEE PLANS



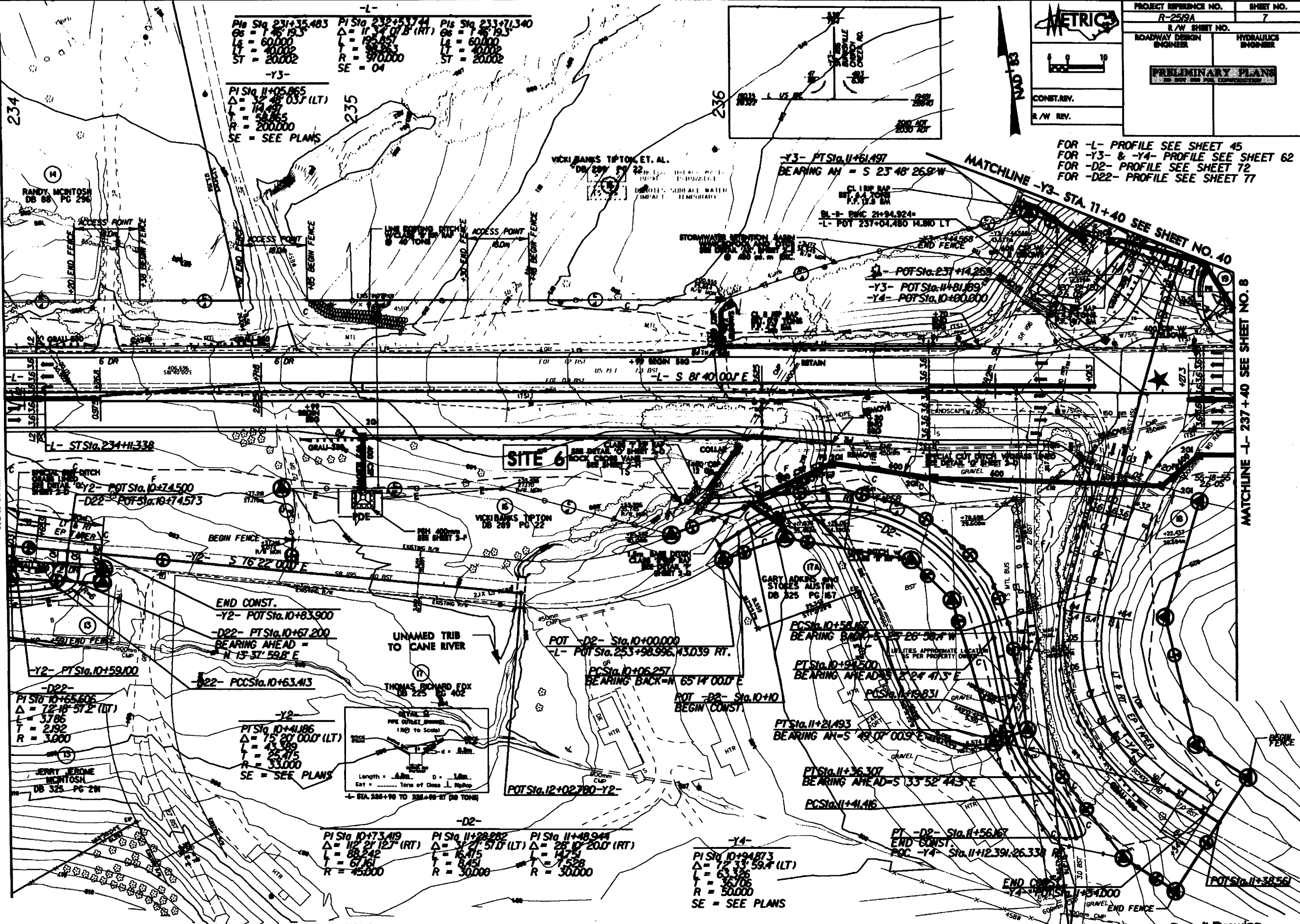


PROJECT REFERENCE NO.	SHEET NO.
R-2519A	7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS	
CONST. REV.	
R/W REV.	

R/W REV. 11/18/05 (TMM); ADDED DRIVEWAY -D2- FOR PARCEL 15; REVISED PROPOSED R/W & CONSTRUCTION ELEMENTS ON PARCEL 15; ADDED PARCEL NUMBER 15; ADDED DRIVEWAY -D2- FOR PARCEL 17; REVISED PROPOSED R/W ON PARCELS 17, 18 & 19; REVISED EXIST. R/W TO NUMERICAL OFFSET; R/W REV. 02/21/06 (TMM); ADDED PAVED SHOULDER & EXPRESSWAY GUTTER & REVISED R/W & CONSTRUCTION ELEMENTS ON PARCEL 18; ADDED CONSTRUCTION ELEMENTS ON PARCEL 17 & 18; R/W REV. 03/30/06 (TMM); REVISED PROPOSED R/W ON PARCELS 17, 18 & 19; ADDED CONSTRUCTION ELEMENTS ON PARCEL 17 & 18; R/W REV. 08/05/07 (TMM); REVISED PROPERTY OWNER DEED BOOK INFORMATION ON PARCEL 15; REVISED PROPERTY OWNER NAME & ADDED ACCESS POINT ON PARCEL 15.

MATCHLINE -L- STA. 234+00 SEE SHEET NO. 6

MATCHLINE -L- 237+40 SEE SHEET NO. 8



-L-
 PI Sta. 231+35.483 Δ = 11° 34' 07" (RT) Gs = 1.8193
 Ls = 60.000 L = 195.851 Ls = 60.000 Gs = 1.8193
 T = 20.002 R = 970.000 ST = 20.002
 SE = 04

-Y3-
 PI Sta. 11+05.865 Δ = 12° 28' 03" (LT)
 L = 14.491 L = 14.491
 T = 58.865 L = 14.491
 R = 200.000 ST = 20.000
 SE = SEE PLANS

-Y3- PT Sta. 11+61.497
 BEARING AH = S 23° 48' 26.9" W

BL = PWC 21+94.924+
 -L- POT 237+04.480 H.880 LT

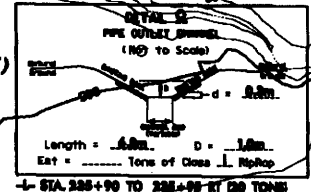
S1 - POT Sta. 237+14.255
 -Y3- POT Sta. 11+81.697
 -Y4- POT Sta. 10+60.000

-Y2- POT Sta. 10+74.500
 -D22- POT Sta. 10+74.573

END CONST.
 -Y2- POT Sta. 10+83.900
 -D22- PT Sta. 10+67.200
 BEARING AHEAD = N 13° 37' 59" E

-D22-
 PI Sta. 10+65.606 Δ = 72° 18' 57.2" (LT)
 L = 3786 L = 3786
 T = 2192 R = 3.000

-Y2-
 PT Sta. 10+41.896 Δ = 75° 20' 00" (LT)
 L = 43.589 L = 43.589
 T = 25.475 R = 33.000
 SE = SEE PLANS



-D2-
 PI Sta. 10+73.419 Δ = 112° 21' 12" (RT) L = 88.242 R = 45.000
 PI Sta. 11+28.282 Δ = 37° 21' 51" (LT) L = 16.415 R = 30.000
 PI Sta. 11+48.944 Δ = 28° 10' 20" (RT) L = 14.751 R = 30.000

-Y4-
 PI Sta. 10+94.873 Δ = 72° 33' 59.4" (LT)
 L = 63.126 L = 63.126
 T = 35.706 R = 50.000
 SE = SEE PLANS

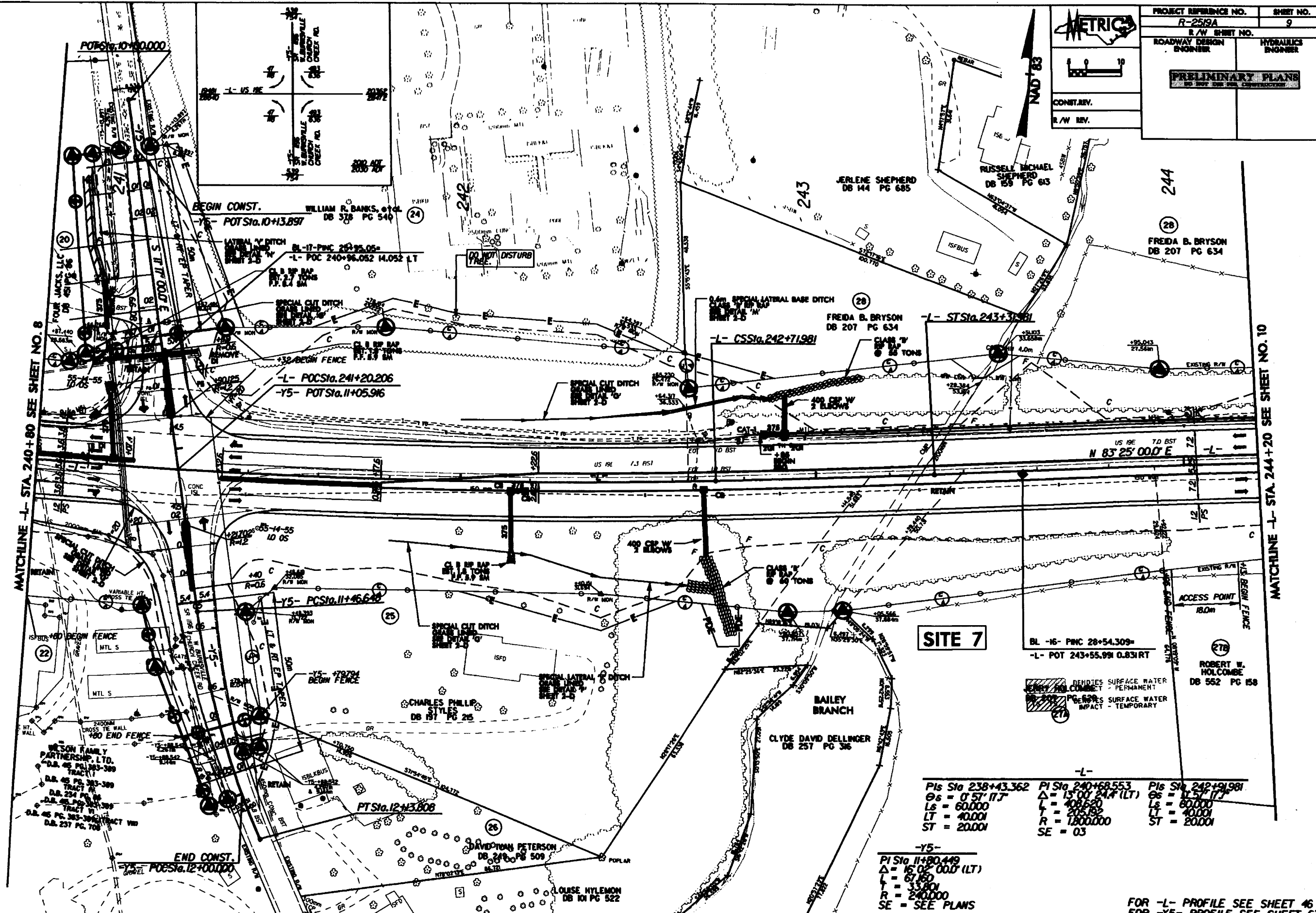
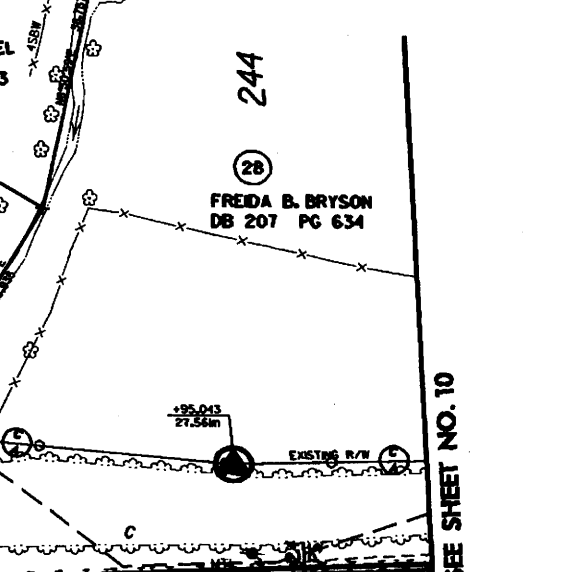
PT -D2- Sta. 11+56.67
 END CONST.
 POC -Y4- Sta. 11+12.391, 26.338 R/W

END CONST.
 -Y4- POT Sta. 11+34.000
 END FENCE

FOR -L- PROFILE SEE SHEET 45
 FOR -Y3- & -Y4- PROFILE SEE SHEET 62
 FOR -D2- PROFILE SEE SHEET 72
 FOR -D22- PROFILE SEE SHEET 77

MATCHLINE -Y3- STA. 11+40 SEE SHEET NO. 40

PROJECT REFERENCE NO. R-2519A		SHEET NO. 9	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS			
CONSTR. REV.			
R/W REV.			



-L-	-Y5-	-L-
PI Sta 238+43.362	PI Sta 11+80.449	PI Sta 240+68.553
$\Delta = 0^{\circ}57'11.7''$	$\Delta = 16^{\circ}02'00.0''$ (LT)	$\Delta = 13^{\circ}00'24.7''$ (LT)
Ls = 60.000	L = 67.60	Ls = 406.620
LT = 40.001	L = 33.801	L = 205.152
ST = 20.001	R = 240.000	LT = 40.001
	SE = SEE PLANS	ST = 20.001
		SE = 03

REVISIONS
 R/W REV. 11/18/05 (T/MW); REVISED C/A & FENCE ON PARCEL 22; REVISED EXIST R/W TO NUMERICAL OFFSET
 R/W REV. 5/10/06 (M/W); REVISED PROPERTY OWNER NAME C/A & FENCE ON PARCEL 22
 R/W REV. 03/30/07 (M/W); REVISED PROPERTY OWNER NAME C/A & FENCE ON PARCEL 24
 R/W REV. 08/07/07 (M/W); REVISED PROPERTY OWNER NAME C/A & FENCE ON PARCEL 24
 R/W REV. 09/24/07 (M/W); REVISED PROPERTY OWNER NAME C/A & FENCE ON PARCEL 24
 R/W REV. 05/08/07 (T/MW); ELIMINATED PARCEL 25 & COMBINED INTO PARCEL 20; ADDED PARCEL 27B WITH ACCESS POINT AT STA. 244+10.4.

MATCHLINE -L- STA. 240+80 SEE SHEET NO. 8

MATCHLINE -L- STA. 244+20 SEE SHEET NO. 10

FOR -L- PROFILE SEE SHEET 46
FOR -Y5- PROFILE SEE SHEET 63

METRIC

PROJECT REFERENCE NO. R-2519A
SHEET NO. 9

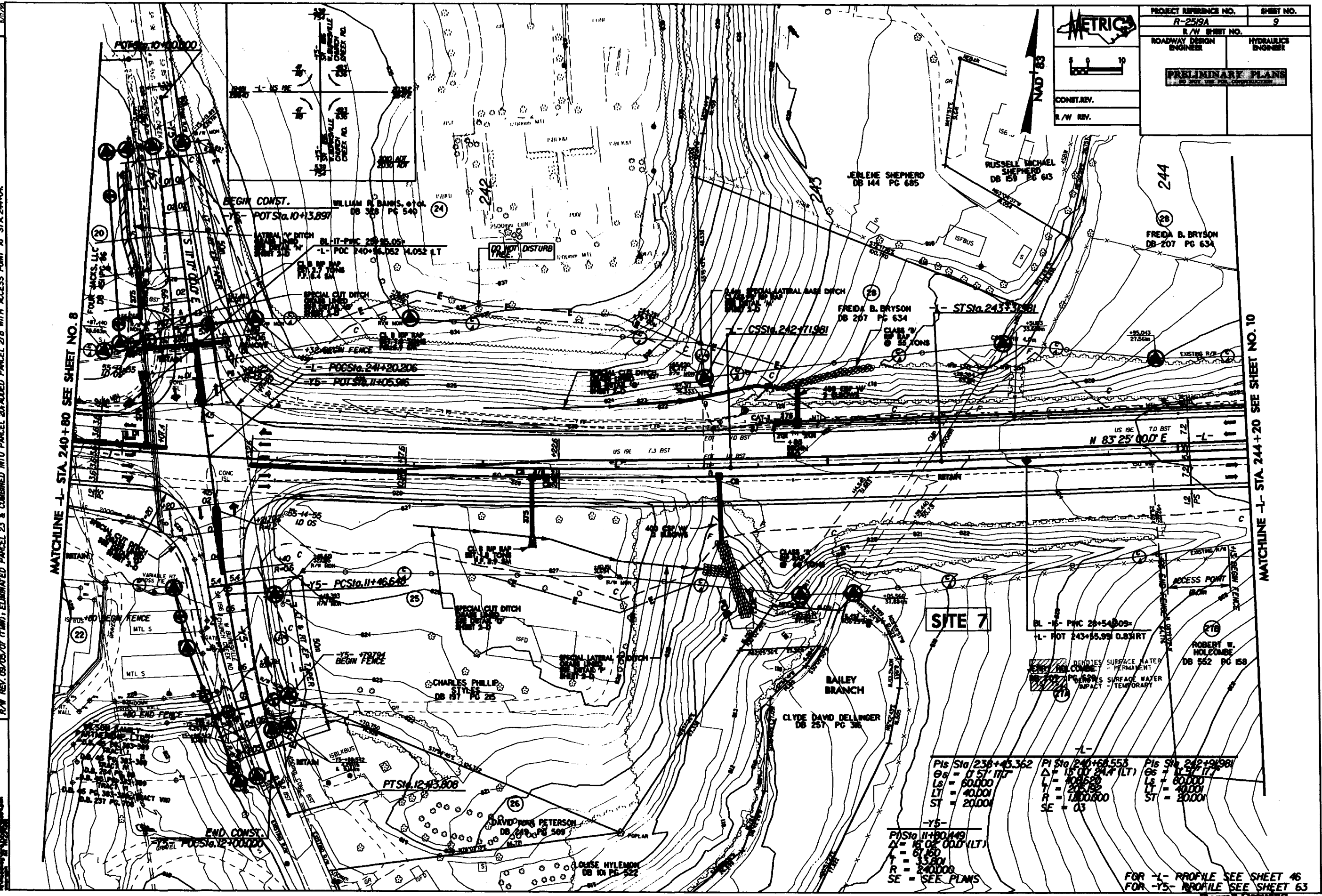
R/W SHEET NO. ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

CONST. REV.
R/W REV.

REVISIONS

R/W REV. 1/18/05 (TMM): REVISED C/A & FENCE ON PARCEL 22. REVISED EXISTING R/W TO NUMERICAL OFFSET.
R/W REV. 5/20/05 (RNP): REVISED PROPERTY OWNER NAME C/A & FENCE ON PARCEL 22.
R/W REV. 03/20/07 (RNP): REVISED PROPERTY OWNER NAME AND DEED BOOK INFORMATION ON PARCEL 24.
R/W REV. 05/16/07 (RNP): REVISED PROPERTY OWNER NAME AND DEED BOOK INFORMATION ON PARCEL 24.
R/W REV. 05/16/07 (RNP): REVISED PROPERTY OWNER NAME AND DEED BOOK INFORMATION ON PARCEL 24.
R/W REV. 05/16/07 (RNP): REVISED PROPERTY OWNER NAME AND DEED BOOK INFORMATION ON PARCEL 24.



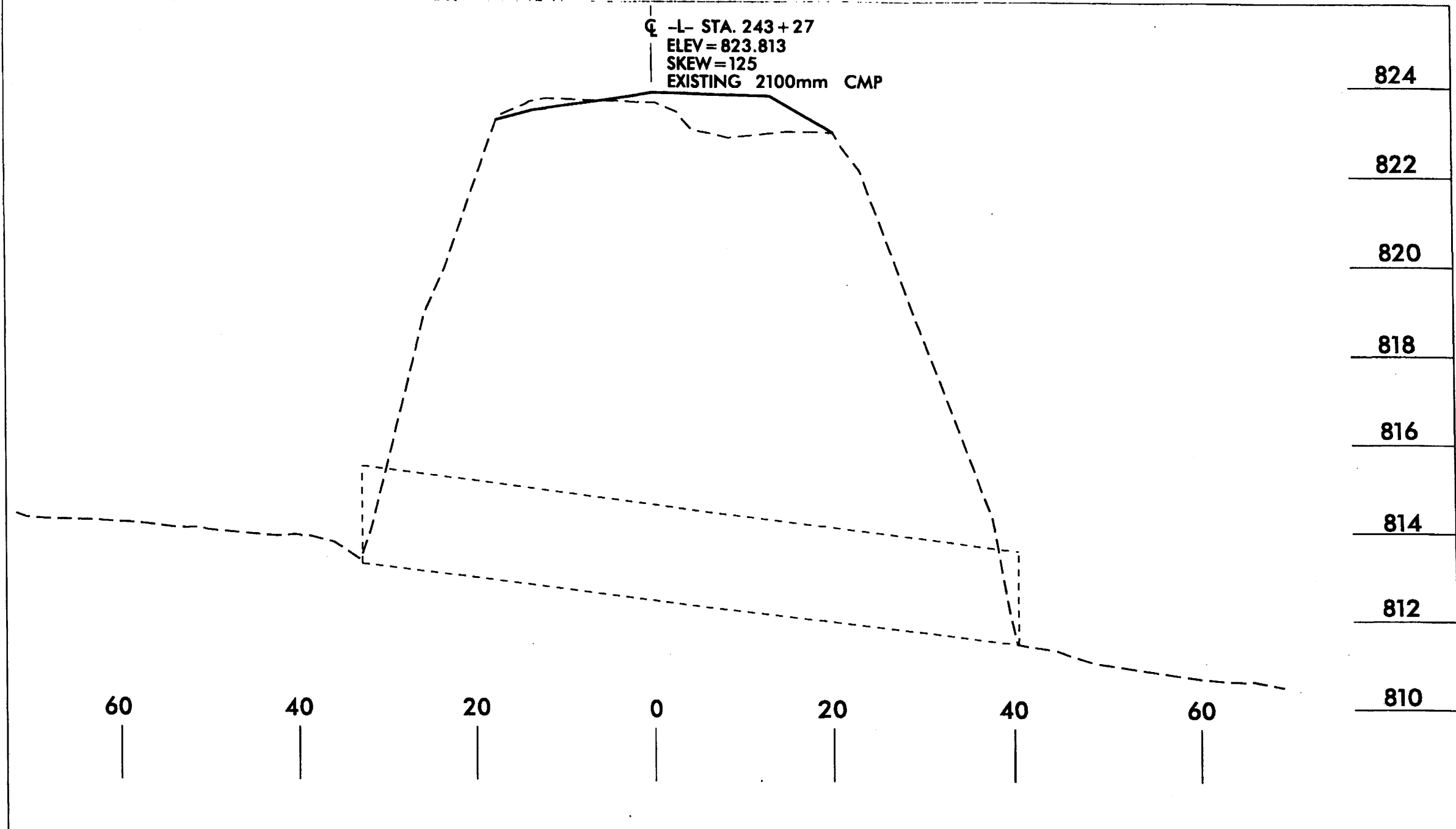
MATCHLINE - STA. 240+80 SEE SHEET NO. 8

MATCHLINE - STA. 244+20 SEE SHEET NO. 10

PIS Sta 238+45.362 Gs = 0.57 1/4" Ls = 60.000 LT = 40.001 ST = 20.001	PI Sta 240+68.555 Δ = 15.00 24.7 (LT) L = 108.520 T = 27.822 R = 1700.000 SE = 03	PIS Sta 242+91.981 Gs = 0.57 1/4" Ls = 60.000 LT = 40.001 ST = 20.001
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-Y5-
PIS Sta 11+80.449
Δ = 15.00 00.0 (LT)
L = 67.150
T = 3.501
R = 240.000
SE = SEE PLANS

FOR -L- PROFILE SEE SHEET 46
FOR -Y5- PROFILE SEE SHEET 63



-L- STATION 243+27
 RETAIN EXISTING 2100mm CMP

SITE 7
 PROFILE VIEW

NCDOT
 DIVISION OF HIGHWAYS
 YANCEY COUNTY
 PROJECT: WBS 35609.1.1 (R-2519A)
 US 19 E EAST OF
 SR 1336 (JACKS CREEK ROAD)
 TO SR 1186 (OLD US 19)
 10 / 25 / 06

METRIC

PROJECT REFERENCE NO. R-2519A SHEET NO. II

R/W SHEET NO.

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

PRELIMINARY PLANS

CONST. REV.

R/W REV.

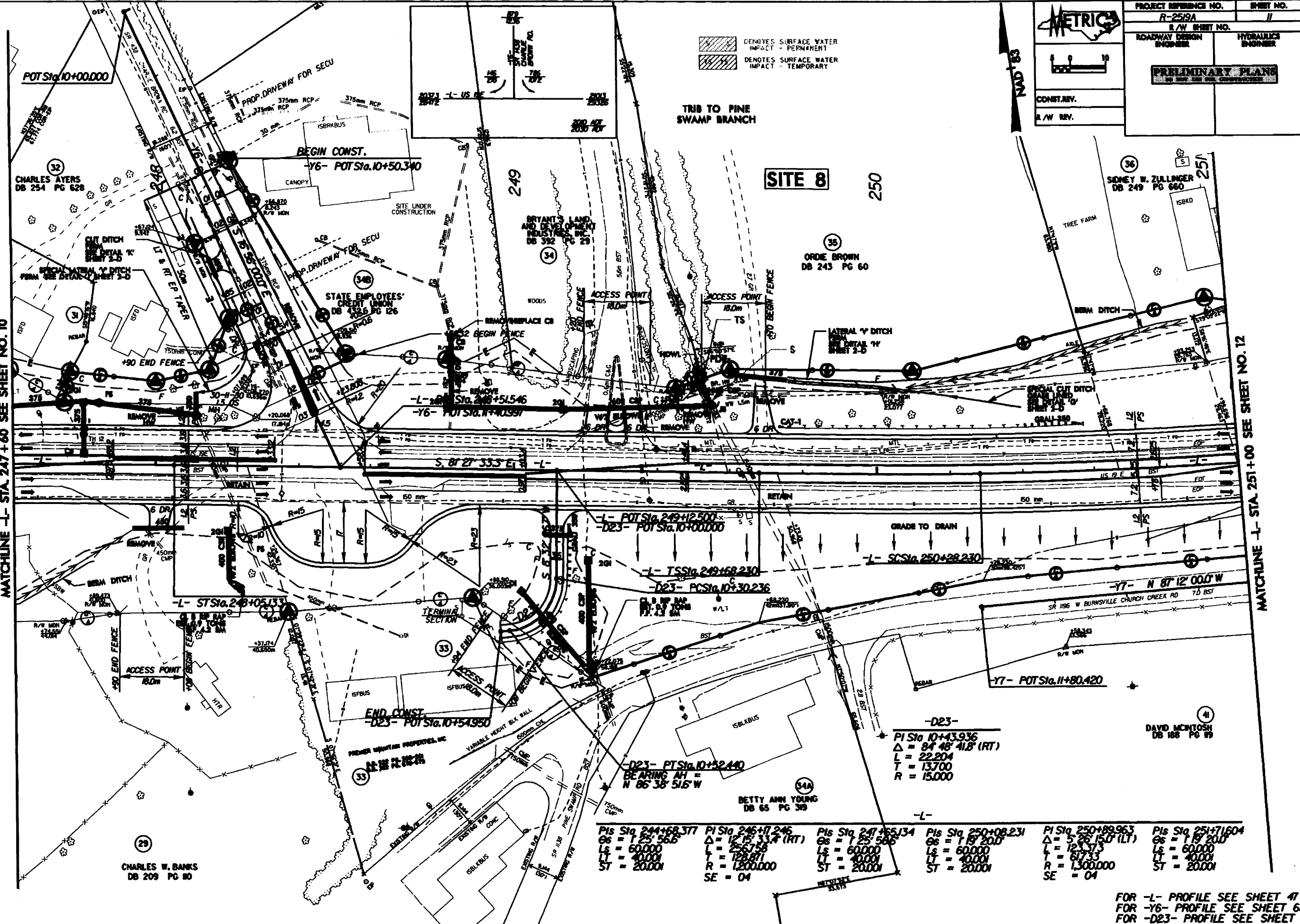
REVISIONS

R/W REV. 11/18/05 (TMM); ADDED ACCESS POINT AT STA. 249+00 FOR PARCEL 29 (REVISED PARCEL NUMBER 33A); COMBINED PARCELS 33 & 33A; REVISED PROPERTY OWNER NAME AND DEED BOOK INFORMATION ON PARCEL 33; ADDED PARCEL 34 TO CONSTRUCTION EASEMENT LINES; REVISED PROPERTY OWNER NAME ON PARCEL 34; REVISED EXIST. R/W TO NUMERICAL OFFSET; R/W REV. 07/07/05 (TMM); REVISED C/L LINE AND PROP. FENCE FROM -L- STA. 249+22 TO -L- STA. 251+05 ON PARCEL 34 & 4. R/W REV. 07/30/05 (TMM); RELOCATED ACCESS POINT AND REVISED DRIVEWAY ON PARCEL 34.

R/W REV. 07/07/07 (RVP); REMOVED TIE ON PARCEL 35 AND ADDED POE ON PARCELS 34 & 35. R/W REV. 05/04/07 (BCS); MOVED DRIVEWAY LOCATION AND RELOCATED ACCESS POINT ON PARCEL 33.

R/W REV. 05/18/07 (BCS); MOVED DRIVEWAY AND ACCESS POINT FROM -L- STA. 249+49 TO -L- STA. 249+42 AND ADDED CONSTRUCTION EASEMENT ON PARCEL 33.

R/W REV. 05/05/07 (TMM); UPDATED EXISTING TOPOGRAPHY AND REVISED CONSTRUCTION EASEMENT ON PARCEL 33.



Pts Sta 244+68.377 Gs = 1 25' 56.6" Ls = 60.000 Lt = 40.000 St = 20.000	Pts Sta 246+17.246 Δ = 12 15' 33.7 (RT) L = 256.758 T = 128.871 R = 1200.000 SE = 04	Pts Sta 247+65.134 Gs = 1 25' 56.6" Ls = 60.000 Lt = 40.000 St = 20.000	Pts Sta 250+08.231 Gs = 1 19' 20.0" Ls = 60.000 Lt = 40.000 St = 20.000	Pts Sta 250+89.963 Δ = 5 26' 15.0 (LT) L = 123.373 T = 61.733 R = 1300.000 SE = 04	Pts Sta 251+71.604 Gs = 1 19' 20.0" Ls = 60.000 Lt = 40.000 St = 20.000
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FOR -L- PROFILE SEE SHEET 47
 FOR -Y6- PROFILE SEE SHEET 63
 FOR -D23- PROFILE SEE SHEET 77

METRIC

PROJECT REFERENCE NO. R-2519A SHEET NO. II

R/W SHEET NO.

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

PRELIMINARY PLANS

CONST. REV. R/W REV.

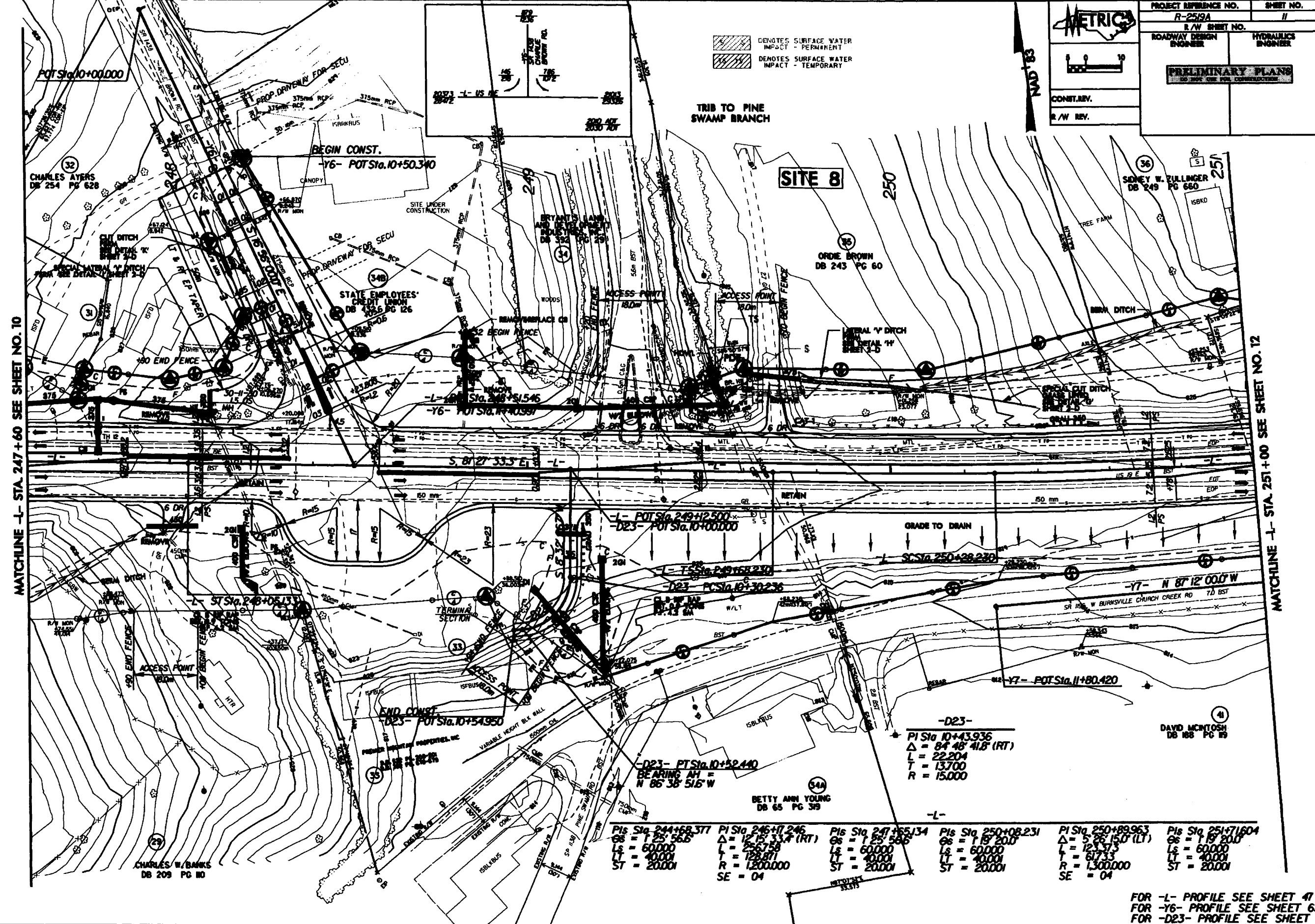
REVISIONS

R/W REV. 11/08/05 (TMM), ADDED ACCESS POINT AT STA. 248+00 FOR PARCEL 39, REMOVED PARCEL NUMBER 33 & 33A, REVISED PROPERTY OWNER NAME ON PARCEL 39, REVISED PROPERTY OWNER NAME ON PARCEL 33, ADDED PARCEL 34B AND REVISED PROP. R/W & CONSTRUCTION EASEMENT LINES, REVISED PROPERTY OWNER NAME ON PARCEL 34, REVISED EXIST. R/W TO MINERAL OFFSET, R/W REV. 8/10/05 (TMM), REVISED C/A LINE AND PROP. FENCE FROM -L- STA. 249+22 TO -L- STA. 251+05 ON PARCEL 34A & 41, R/W REV. 10/30/05 (TMM), RELOCATED ACCESS POINT AND REVISED DRIVEWAY ON PARCEL 34.

R/W REV. 01/08/07 (RUP), REMOVED TIE ON PARCEL 35 AND ADDED PDE ON PARCELS 34 & 33, R/W REV. 05/04/07 (BSH) MOVED DRIVEWAY LOCATION AND RELOCATED ACCESS POINT ON PARCEL 33.

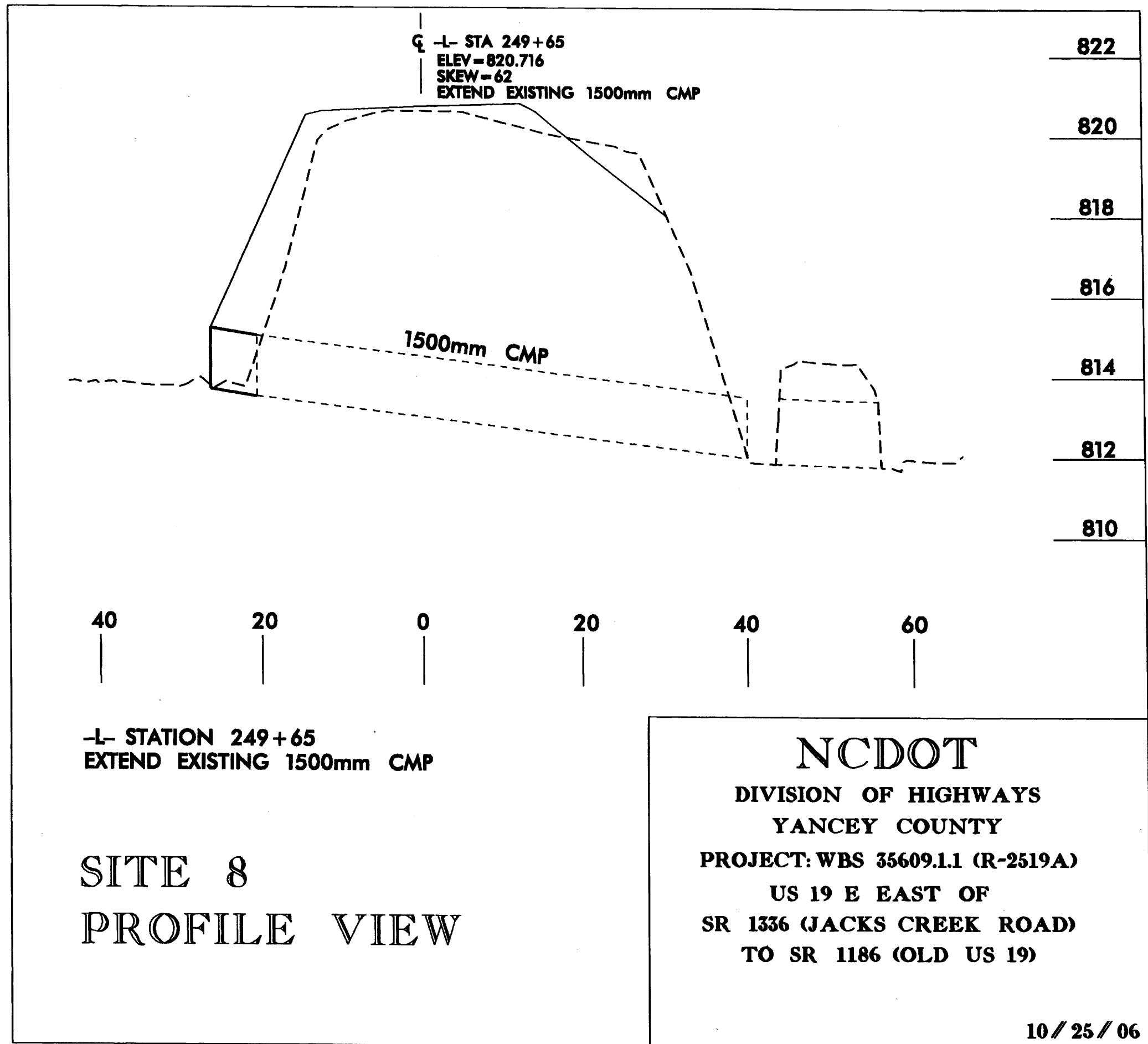
R/W REV. 05/16/07 (BSH), MOVED DRIVEWAY AND ACCESS POINT FROM -L- STA. 248+52 TO -L- STA. 249+12 AND ADDED CONSTRUCTION EASEMENT ON PARCEL 33.

R/W REV. 05/05/07 (TMM), UPDATED EXISTING TOPOGRAPHY AND REVISED CONSTRUCTION EASEMENT ON PARCEL 33.



PIs Sta. 244+68.377 Gs = 1 25' 56.6" Ls = 60.000 Lt = 40.001 ST = 20.001	PIs Sta. 245+71.246 $\Delta = 12 15 33.7$ (RT) L = 256.758 Lt = 128.871 R = 1200.000 SE = 04	PIs Sta. 247+65.134 Gs = 1 25' 56.6" Ls = 60.000 Lt = 40.001 ST = 20.001	PIs Sta. 250+08.231 Gs = 1 19' 20.0" Ls = 60.000 Lt = 40.001 ST = 20.001	PIs Sta. 250+89.963 $\Delta = 5 26 15.0$ (LT) L = 121.373 Lt = 61.713 R = 1300.000 SE = 04	PIs Sta. 251+71.604 Gs = 1 19' 20.0" Ls = 60.000 Lt = 40.001 ST = 20.001
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FOR -L- PROFILE SEE SHEET 47
 FOR -Y6- PROFILE SEE SHEET 63
 FOR -D23- PROFILE SEE SHEET 77



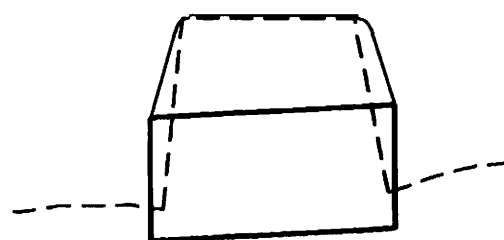
☒ -D4REV- STA 10+30
ELEV = 818.9
SKEW = 90
1 @ 2.41m X 1.70m CS PIPE ARCH

822

820

818

816



BURY 0.3m

20

0

20

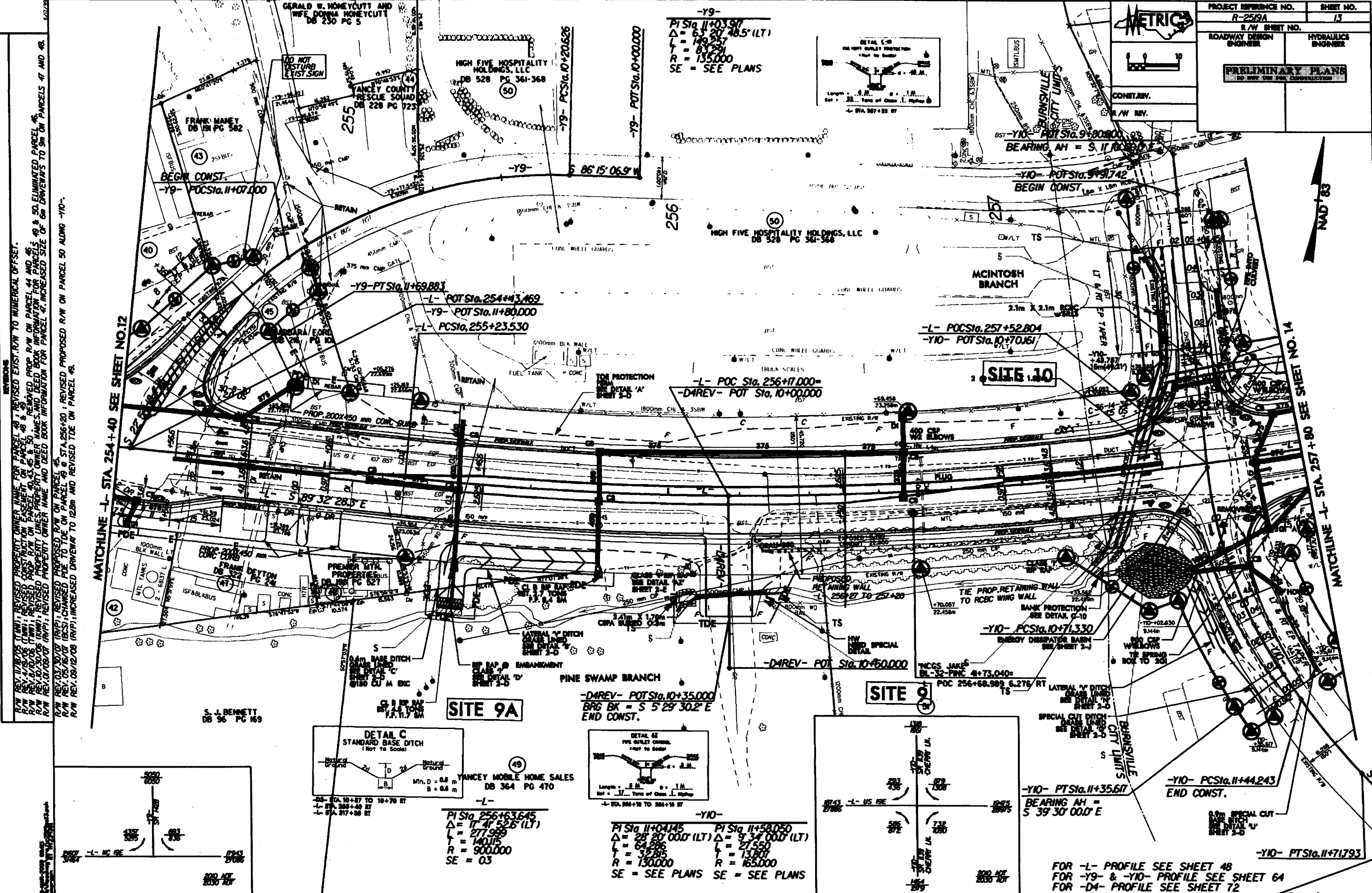
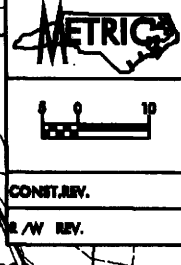
-D4REV- STATION 10+30
2.41m X 1.70m CS PIPE ARCH

SITE 9
PROFILE VIEW

NCDOT
DIVISION OF HIGHWAYS
YANCEY COUNTY
PROJECT: WBS 35609.1.1 (R-2519A)
US 19 E EAST OF
SR 1336 (JACKS CREEK ROAD)
TO SR 1186 (OLD US 19)

03 / 12 / 09

PROJECT REFERENCE NO.	R-2519A	SHEET NO.	13
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS			



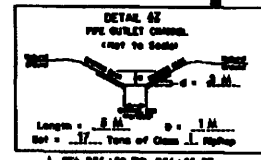
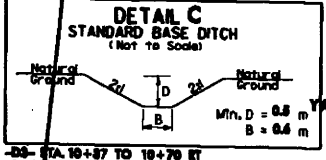
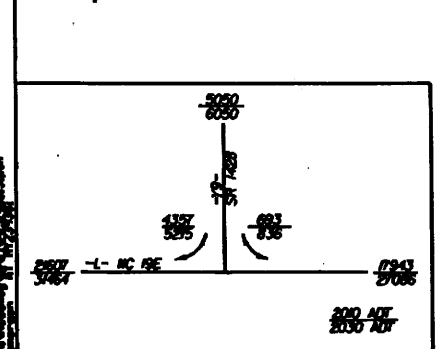
REVISIONS

REV. 11/18/05 (TMM): REVISED PROPERTY OWNER NAME FOR PARCEL 48; REVISED EXIST. R/W TO NUMERICAL OFFSET.

REV. 4/19/06 (TMM): REVISED CONSTRUCTION EASEMENT ON PARCEL 48 & 49; REMOVED PROP. R/W ON PARCEL 44 AND 45.

REV. 8/10/06 (TMM): REVISED CONSTRUCTION EASEMENT ON PARCEL 40, 43, 45 & 50; REMOVED PROP. R/W ON PARCELS 48 & 50; ELIMINATED PARCEL 46.

REV. 10/30/06 (TMM): REVISED PROPERTY LINES; PROPERTY OWNER NAME CHANGED; DEED BOOK INFORMATION FOR PARCEL 47; INCREASED SIZE OF 6\"/>



-L-
PI Sta. 256+63.645
 $\Delta = 17' 41'' 52.6''$ (LT)
L = 277.989
T = 140.115
R = 900.000
SE = 03

-Y10-
PI Sta. 11+04.145
 $\Delta = 28' 20'' 00.0''$ (LT)
L = 64.286
T = 32.895
R = 130.000
SE = SEE PLANS

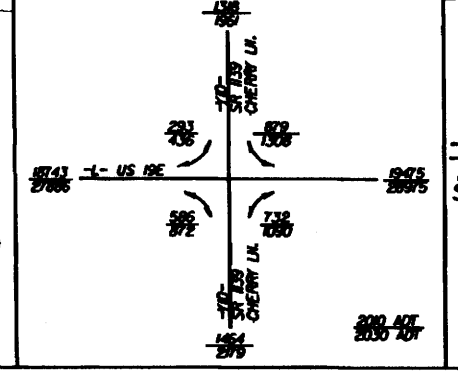
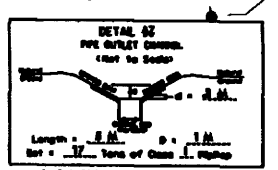
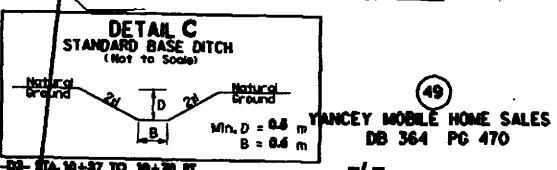
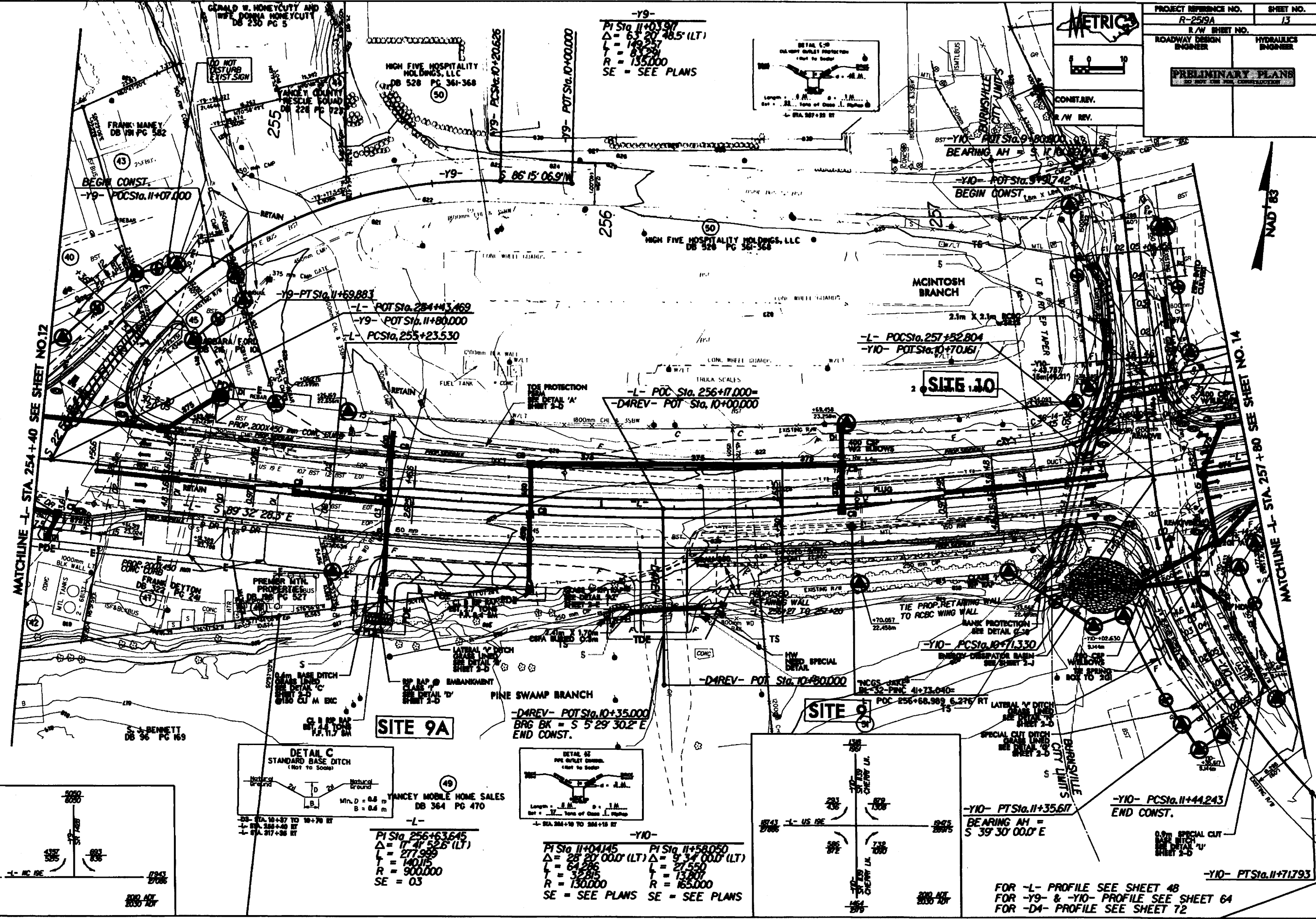
PI Sta. 11+58.050
 $\Delta = 9' 34'' 00.0''$ (LT)
L = 27.550
T = 13.800
R = 165.000
SE = SEE PLANS

FOR -L- PROFILE SEE SHEET 48
FOR -Y9- & -Y10- PROFILE SEE SHEET 64
FOR -D4- PROFILE SEE SHEET 72

PROJECT REFERENCE NO.	SHEET NO.
R-2539A	13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS	
DO NOT SCALE	



REVISIONS
 R/W REV. 11/19/05 (TMM): REVISED PROPERTY OWNER NAME FOR PARCEL 49 & REVISED EXIST. R/W TO NUMERICAL OFFSET.
 R/W REV. 4/19/06 (TMM): REVISED CONST. FOOTING ON BASEMENT ON PARCEL 48 & 49. REVISED PROP. R/W ON PARCEL 44 AND 46.
 R/W REV. 6/19/06 (TMM): REVISED PROPERTY OWNER NAME FOR PARCELS 48 & 49. REVISED EXIST. R/W FOR PARCELS 48 & 49. ELIMINATED PARCEL 45.
 R/W REV. 10/20/06 (RVP): REVISED PROPERTY OWNER NAME AND DEED BOOK INFORMATION FOR PARCEL 47. INCREASED SIZE OF DR. PARCELS 47 AND 48.
 R/W REV. 03/30/07 (RVP): REVISED PROP. R/W ON PARCEL 45.
 R/W REV. 05/16/07 (BES): CHANGED PDE TO TDE ON PARCEL 49 & STA 256+20. REVISED PROPOSED R/W ON PARCEL 50 ALONG -Y10-.
 R/W REV. 08/12/08 (RVP): INCREASED DRIVEWAY TO 12.8m AND REVISED TIE ON PARCEL 48.





-L-
 PI Sta. 256+63.645
 $\Delta = 17' 41' 52.6''$ (LT)
 L = 277.989
 T = 140.115
 R = 900.000
 SE = 03

-Y10-
 PI Sta. 11+04.145
 $\Delta = 28' 20' 00.0''$ (LT)
 L = 64.886
 T = 32.815
 R = 130.000
 SE = SEE PLANS

PI Sta. 11+58.050
 $\Delta = 9' 3' 00.0''$ (LT)
 L = 27.550
 T = 13.807
 R = 165.000
 SE = SEE PLANS

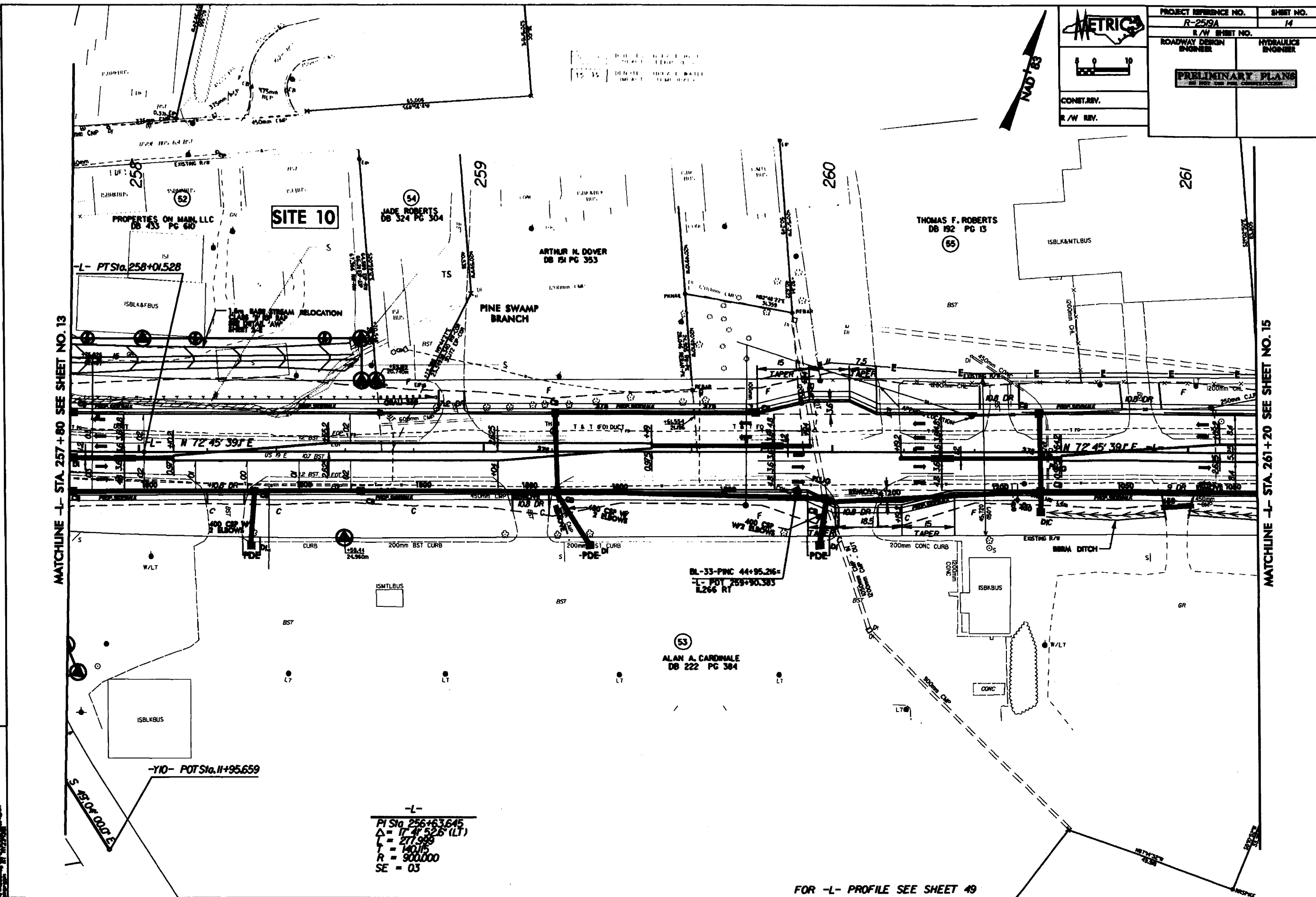
FOR -L- PROFILE SEE SHEET 48
 FOR -Y9- & -Y10- PROFILE SEE SHEET 64
 FOR -D4- PROFILE SEE SHEET 72

  CONST. REV. R/W REV.	PROJECT REFERENCE NO. R-2519A	SHEET NO. 14
	ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS <small>NO PART OF THIS DRAWING TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.</small>		

REVISIONS
 R/W REV. 11/18/05 (TMM); REVISED PROPERTY OWNER NAME FOR PARCEL 52; ADDED DRIVEWAY TO PARCEL 55 AT STA. 280+80; REVISED EXIST. R/W TO NUMERICAL OFFSET.
 R/W REV. 01/09/07 (RVP); REVISED PDE ON PARCEL 53.
 R/W REV. 09/05/07 (TMM); ADDED DRIVEWAY AT STA. 259+44 AND REVISED PDE ON PARCEL 53.

MATCHLINE -L- STA. 257+80 SEE SHEET NO. 13

MATCHLINE -L- STA. 261+20 SEE SHEET NO. 15



-L-
 PI Sta. 256+63.645
 $\Delta = 17^\circ 45' 26" (LT)$
 $L = 277.985$
 $T = 140.715$
 $R = 900.000$
 SE = 03

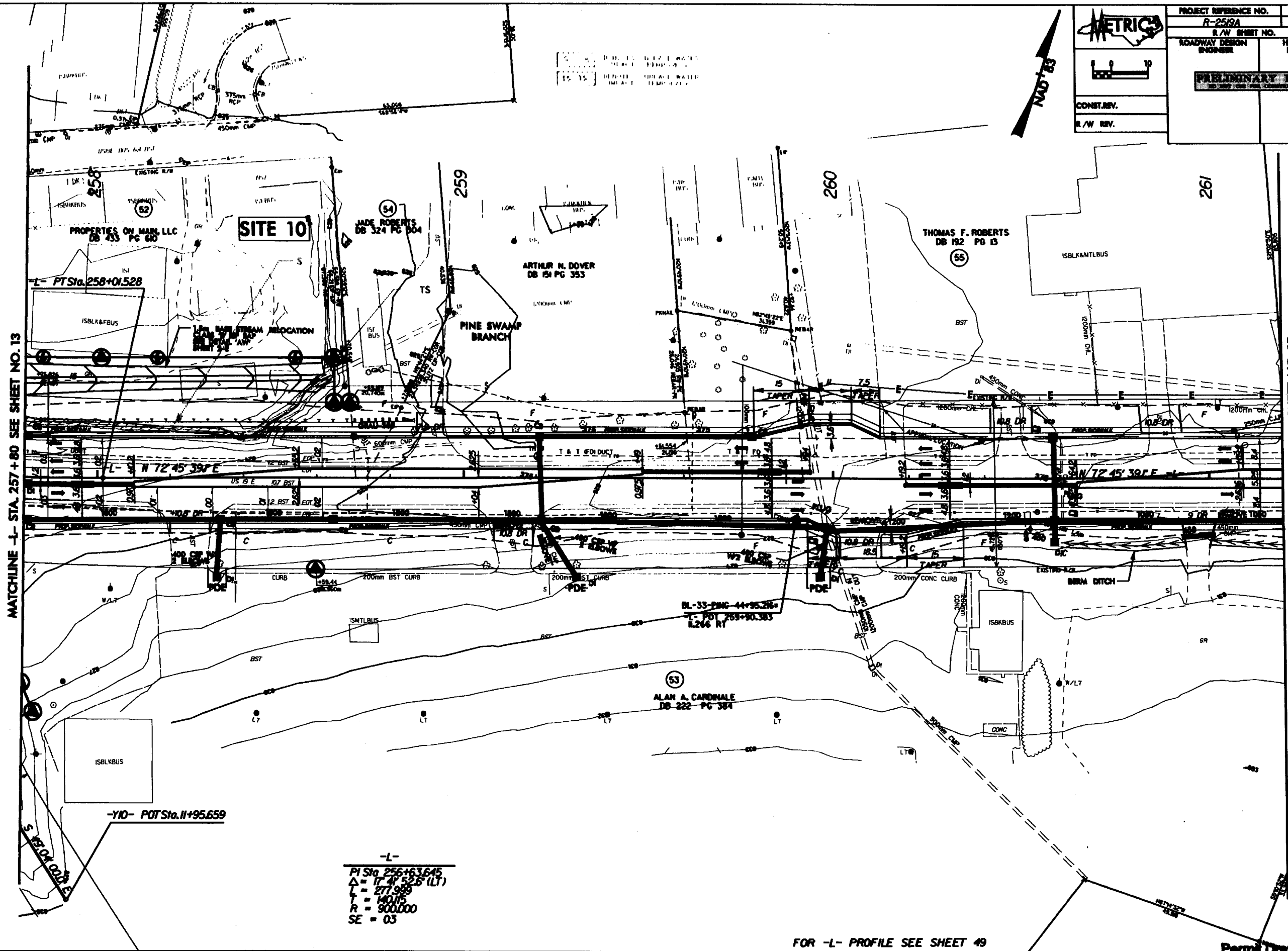
FOR -L- PROFILE SEE SHEET 49

METRIC

CONST. REV.
R/W REV.

PROJECT REFERENCE NO. R-2519A	SHEET NO. 14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS	

REVISIONS
 R/W REV. 11/18/05 (TMM); REVISED PROPERTY OWNER NAME FOR PARCEL 52, ADDED DRIVEWAY TO PARCEL 55 AT STA. 250+90, REVISED EXIST. R/W TO NUMERICAL OFFSET.
 R/W REV. 01/09/07 (RVP); REVISED POE ON PARCEL 53.
 R/W REV. 09/25/07 (TMM); ADDED DRIVEWAY AT STA. 259+44 AND REVISED POE ON PARCEL 53.

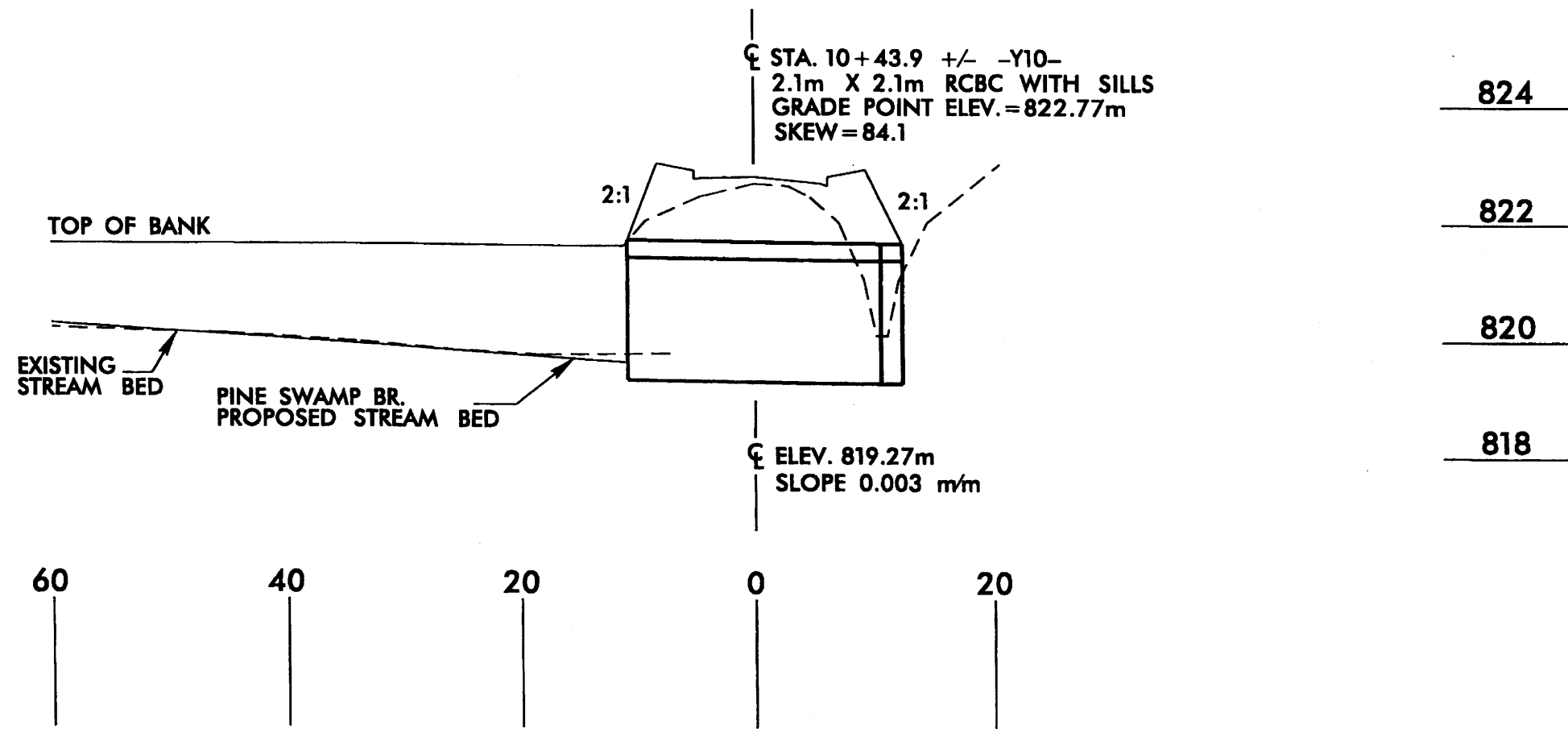


MATCHLINE -L- STA. 257+80 SEE SHEET NO. 13

MATCHLINE -L- STA. 261+20 SEE SHEET NO. 15

-L-
 PI Sta. 256+63.645
 $\Delta = 17^\circ 4' 52.6" (LT)$
 L = 277.989
 T = 140.115
 R = 900.000
 SE = 03

FOR -L- PROFILE SEE SHEET 49

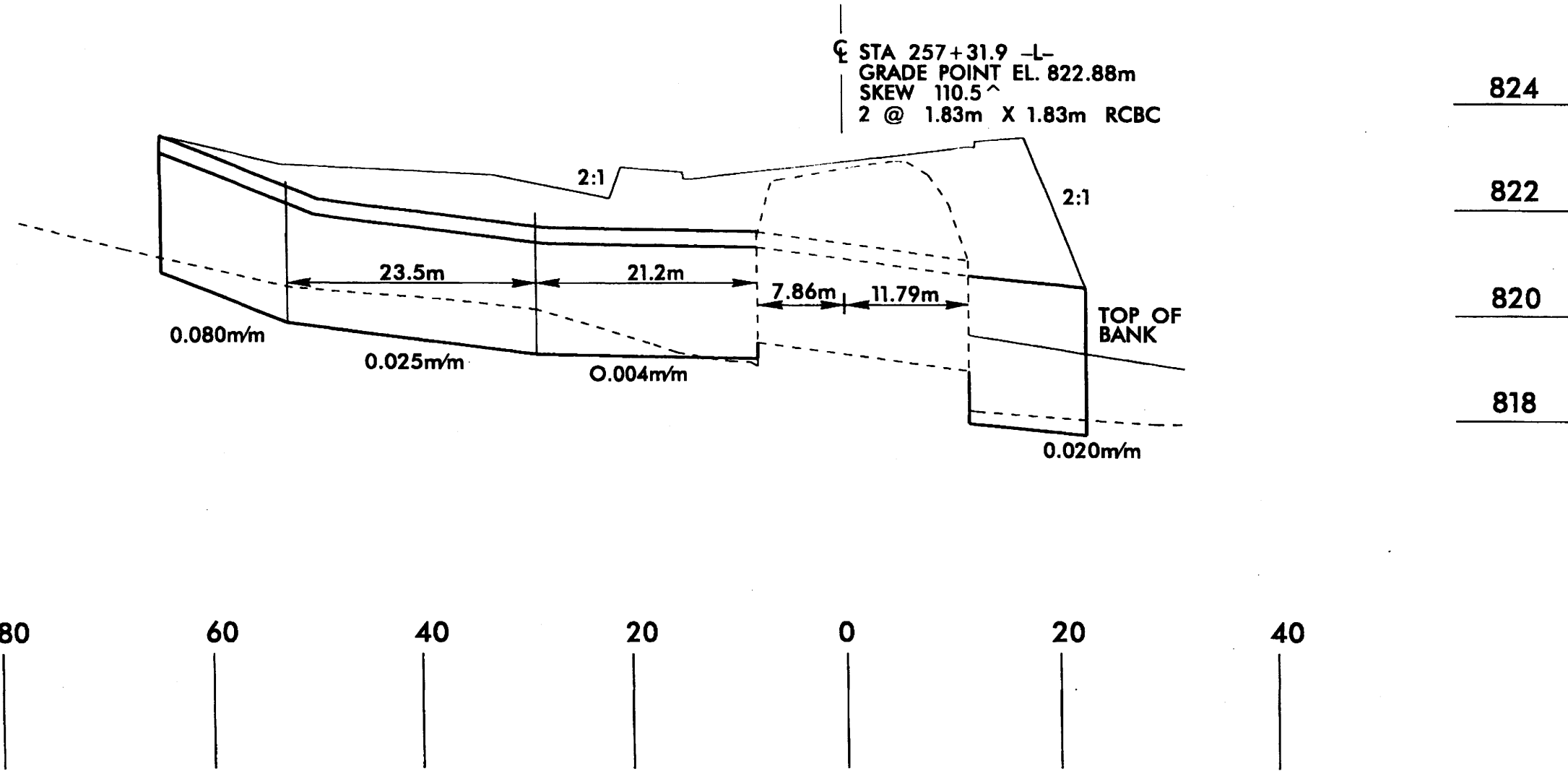


-Y10- STATION 10+44
 2.1m X 2.1m RCBC WITH SILLS

SITE 10
 PROFILE VIEW

NCDOT
 DIVISION OF HIGHWAYS
 YANCEY COUNTY
 PROJECT: WBS 35609.1.1 (R-2519A)
 US 19 E EAST OF
 SR 1336 (JACKS CREEK ROAD)
 TO SR 1186 (OLD US 19)

SHEET OF 10 / 25 / 06



-L- STATION 257+32
 2 @ 1.83m X 1.83m RCBC

0.3m HIGH SILLS ARE TO BE PLACED IN THE PROPOSED RCBC EXTENSIONS. SPACING SHALL BE AS FOLLOWS: McINTOSH BRANCH AND PINE SWAMP BRANCH AT INLET EXTENSIONS 8m +/-; AT OUTLET EXTENSIONS 5.5m +/- WITH THE INTERIOR SILL BEING 0.6m HIGH.

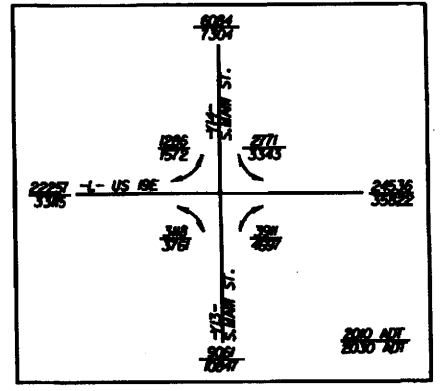
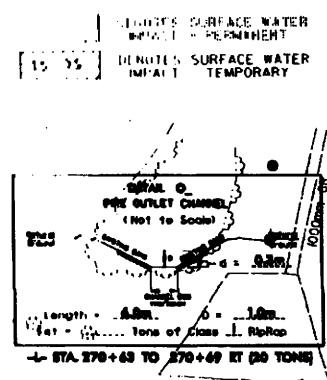
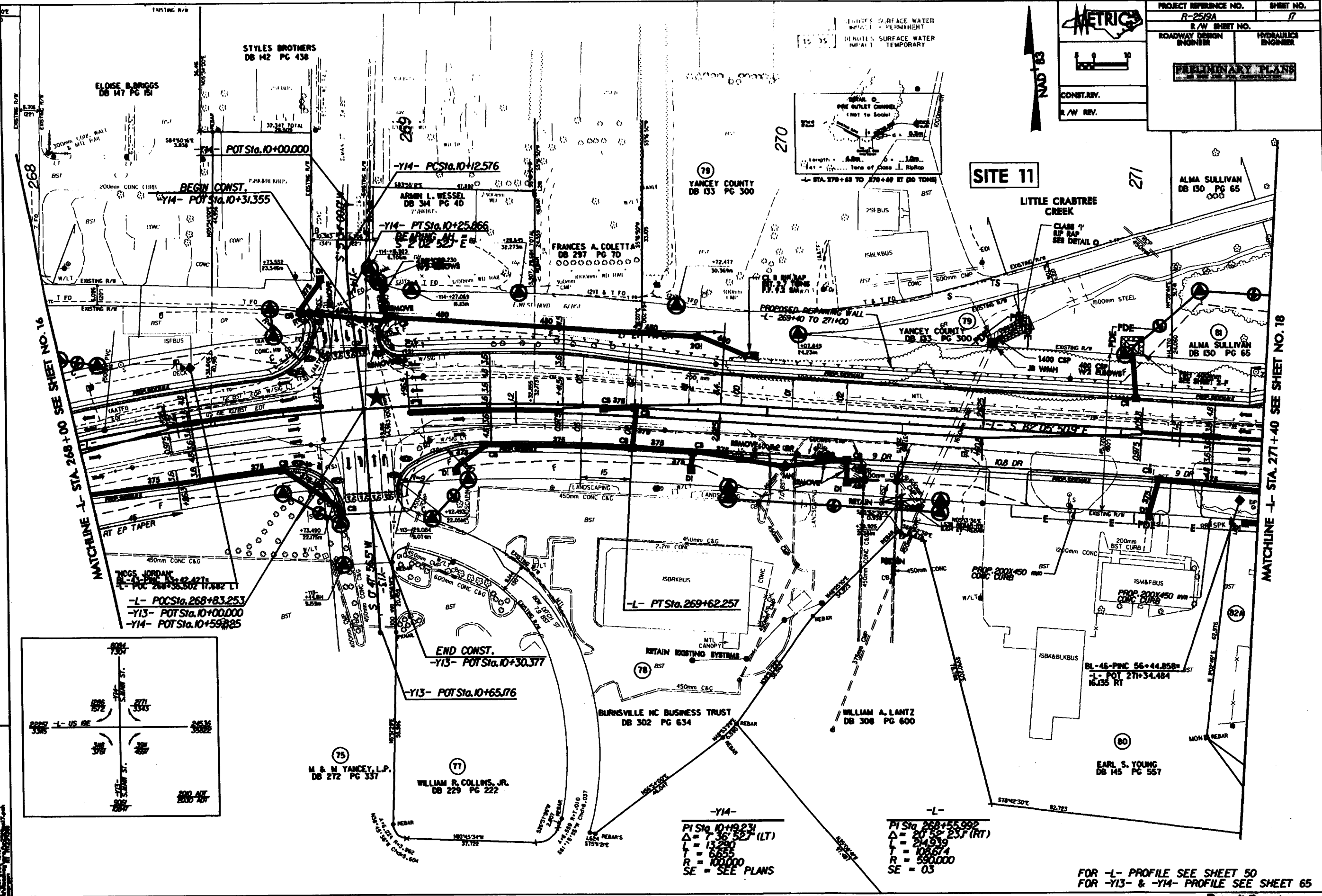
SITE 10
 PROFILE VIEW

NCDOT
 DIVISION OF HIGHWAYS
 YANCEY COUNTY
 PROJECT: WBS 35609.1.1 (R-2519A)
 US 19 E FROM EAST OF
 SR 1336 (JACKS CREEK ROAD)
 TO SR 1186 (OLD US 19)

10/25/06

	PROJECT REFERENCE NO.	SHEET NO.
	R-2519A	17
	R/W SHEET NO.	
	ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS <small>NOT FOR CONSTRUCTION</small>		
CONST. REV.		
R/W REV.		

SITE 11



R/W REV. 1/18/08 (TMM); REVISED EAST R/W TO NUMERICAL OFFSET.
 R/W REV. 2/18/08 (TMM); REVISED R/W ON PARCEL 75.
 R/W REV. 3/18/08 (TMM); ADDED PARCEL 52A.
 R/W REV. 4/18/08 (TMM); ADDED PDE TO PARCEL 79 NEAR STA. 270+66 LT.

MATCHLINE -L- STA. 268+00 SEE SHEET NO. 16

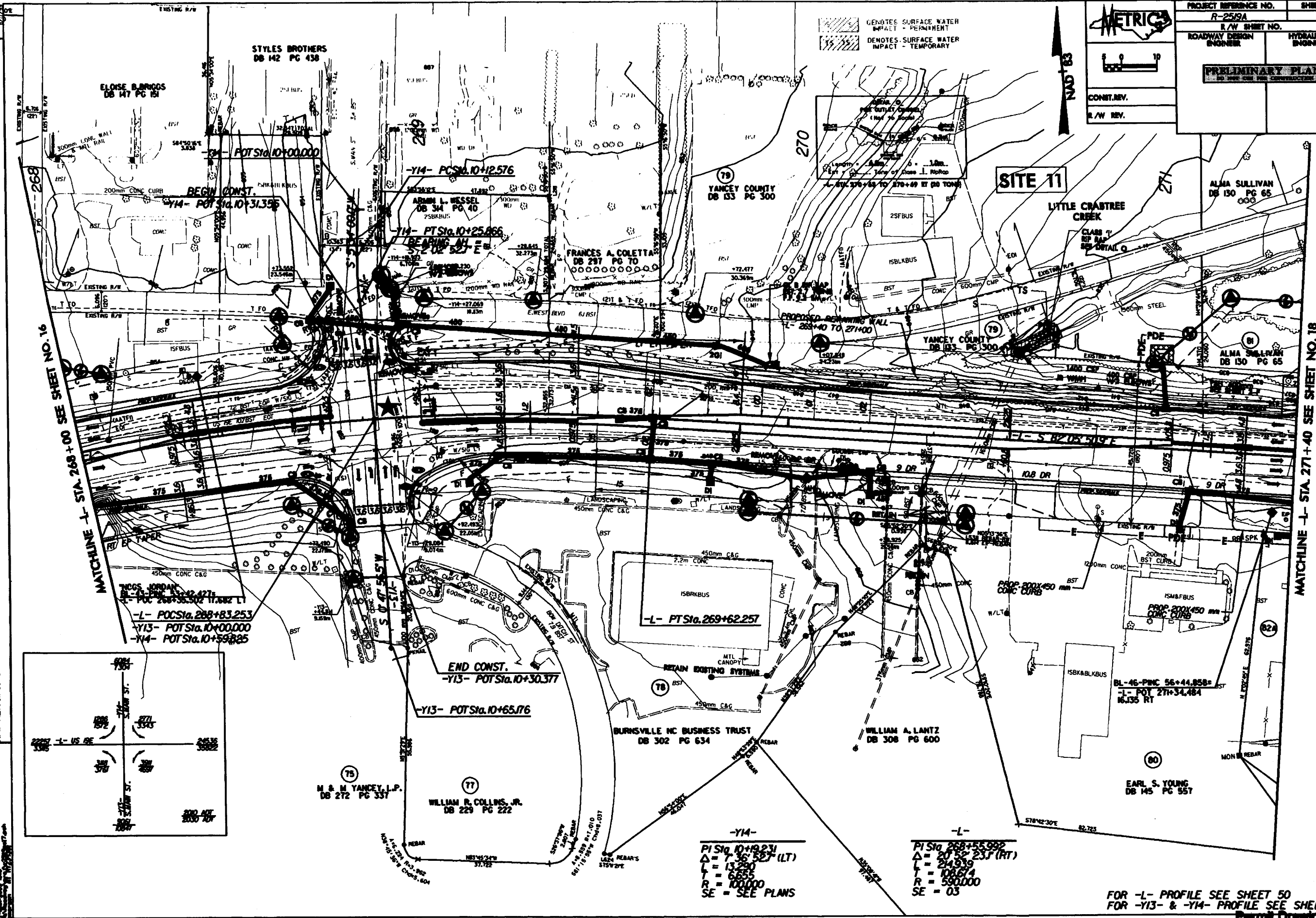
MATCHLINE -L- STA. 271+40 SEE SHEET NO. 18

-Y14-
 PI Sta. 10+19.231
 $\Delta = 7.36' 52.7$ (LT)
 $L = 13.280$
 $R = 6655$
 $T = 100.000$
 SE = SEE PLANS

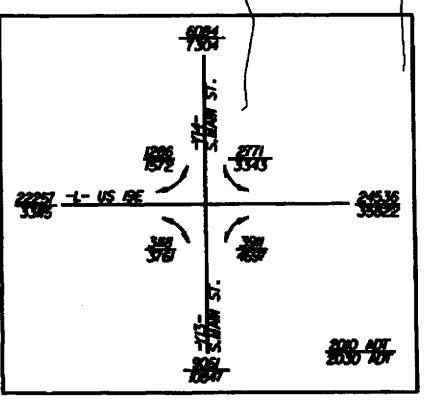
-L-
 PI Sta. 268+55.992
 $\Delta = 20' 52' 23.1$ (RT)
 $L = 24.839$
 $R = 108674$
 $T = 590.000$
 SE = 03

FOR -L- PROFILE SEE SHEET 50
 FOR -Y13- & -Y14- PROFILE SEE SHEET 65

	PROJECT REFERENCE NO.	SHEET NO.
	R-2519A	17
	R/W SHEET NO.	
	ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS		
CONST. REV.		
R/W REV.		



REVISIONS
 R/W REV. 11/18/08 (LAWYER) REVISED EASEMENT R/W ON PARCEL 75.
 R/W REV. 07/08/08 (LAWYER) REVISED PARCEL 82A.
 R/W REV. 07/08/08 (LAWYER) ADDED PDE TO PARCEL 79 NEAR STA. 270+66 LT.



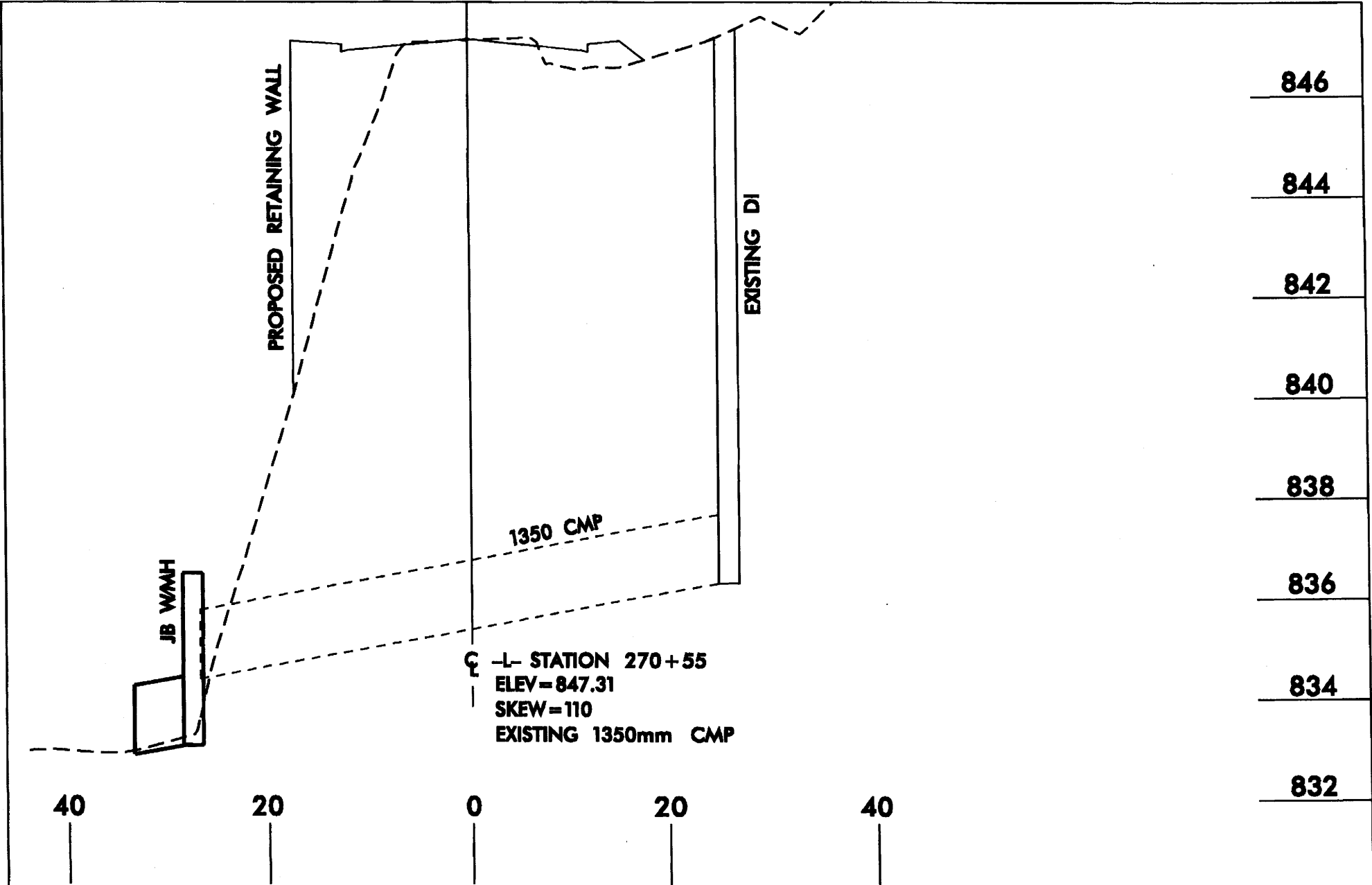
MATCHLINE -L- STA. 268+00 SEE SHEET NO. 16

MATCHLINE -L- STA. 271+40 SEE SHEET NO. 18

-Y14-
 PISig 10+19.231
 $\Delta = 7.36527$ (LT)
 $L = 13.290$
 $T = 6.655$
 $R = 100.000$
 SE = SEE PLANS

-L-
 PISig 268+55.992
 $\Delta = 20.7223$ (RT)
 $L = 24.939$
 $T = 10.674$
 $R = 590.000$
 SE = 03

FOR -L- PROFILE SEE SHEET 50
 FOR -Y13- & -Y14- PROFILE SEE SHEET 65
 Permit Drawing
 Sheet 35 of 76



—L— STATION 270+55
RETAIN EXISTING 1350mm CMP
EXTEND W/1400mm CSP

SITE 11
PROFILE VIEW

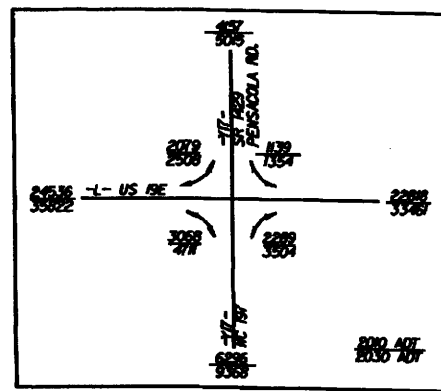
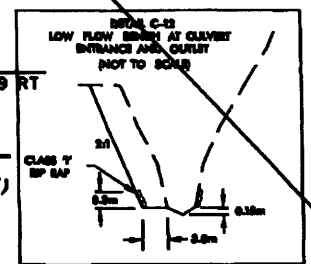
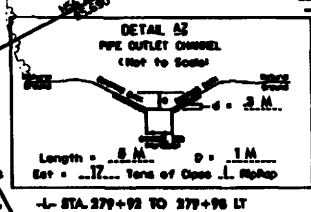
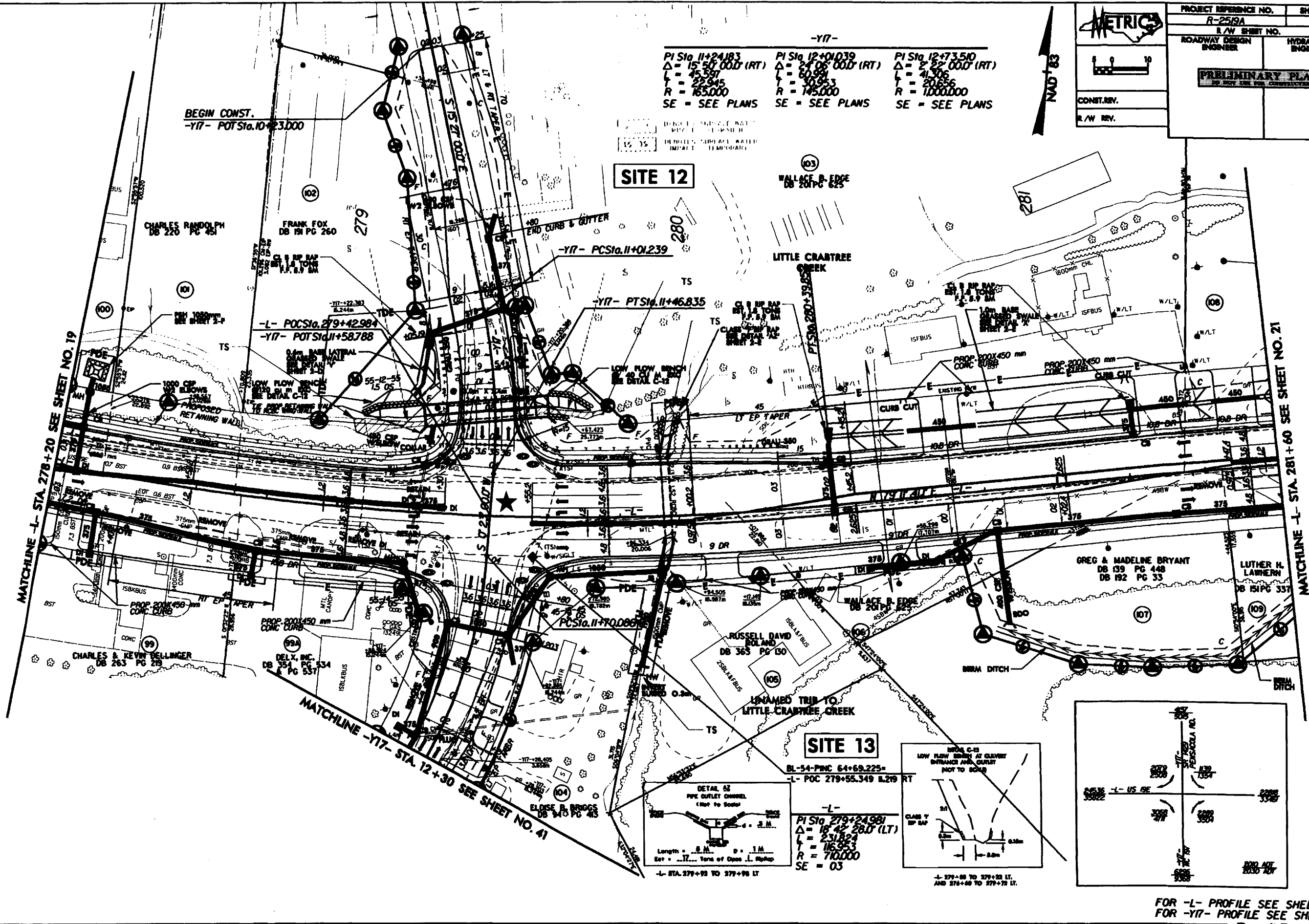
NCDOT
 DIVISION OF HIGHWAYS
 YANCEY COUNTY
 PROJECT: WBS 35609.1.1 (R-2519A)
 US 19 E EAST OF
 SR 1336 (JACKS CREEK ROAD)
 TO SR 1186 (OLD US 19)

03 / 12 / 09

PROJECT REFERENCE NO. R-2519A		SHEET NO. 20	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS			
CONST. REV.			
R/W REV.			

-Y17-		
PI Sta 11+24183 Δ = 15' 50" 0.00' (RT) L = 45.587 T = 22.945 R = 165.000 SE = SEE PLANS	PI Sta 12+01039 Δ = 24' 06" 0.00' (RT) L = 60.991 T = 30.953 R = 145.000 SE = SEE PLANS	PI Sta 12+73510 Δ = 2' 22" 0.00' (RT) L = 41.306 T = 20.656 R = 1000.000 SE = SEE PLANS

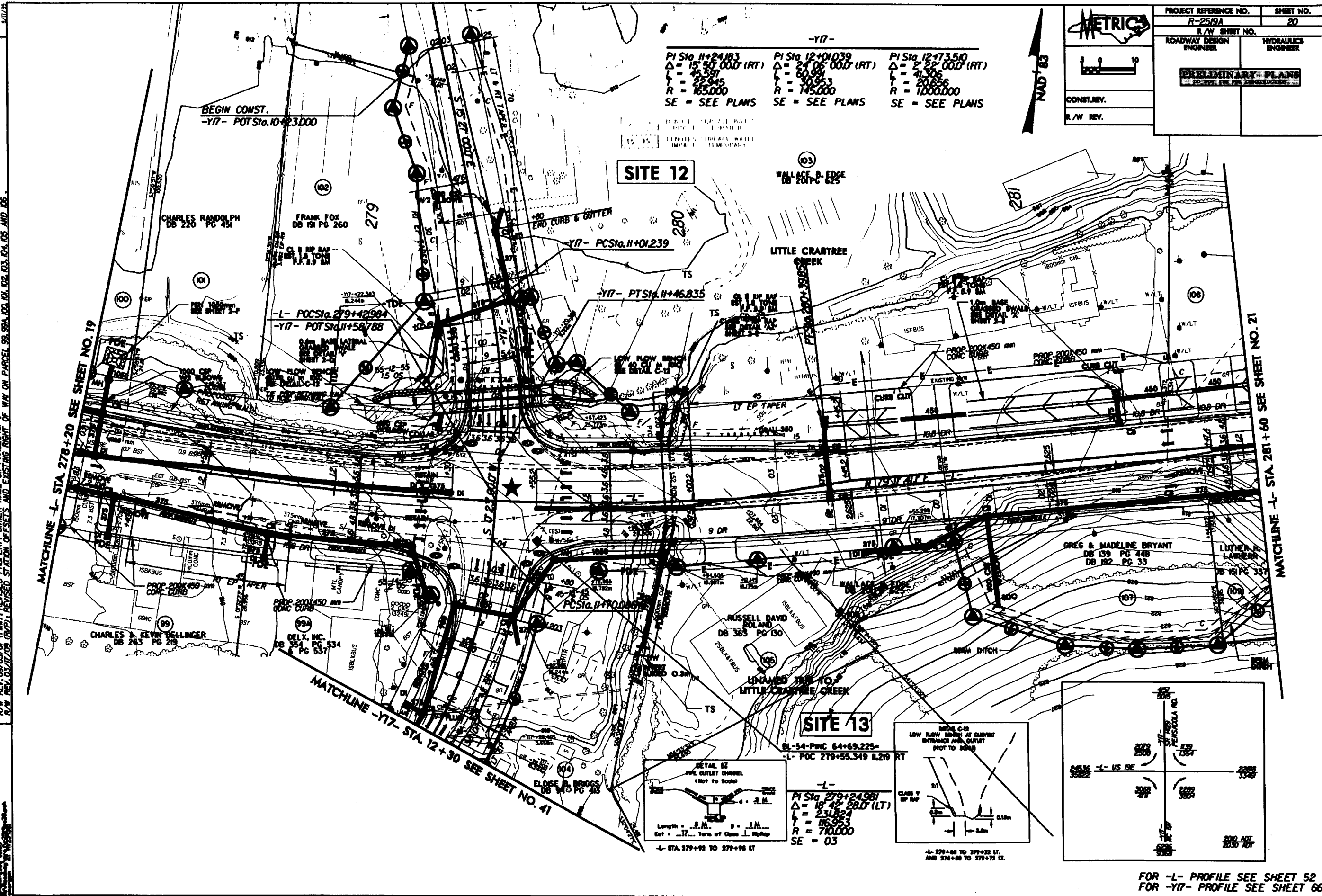
REVISIONS
 R/W REV. 11/18/05 (TMM): ADDED DRIVEWAY TO PARCEL 103 AT STA 11+85 - REVISED EXIST. R/W TO NUMERICAL OFFSET.
 R/W REV. 01/09/07 (RVP): REVISED PROPERTY OWNERS NAME AND DEED BOOK INFORMATION ON PARCEL 105.
 R/W REV. 05/16/07 (BSS): REVISED PROPERTY OWNERS NAME AND PROPERTY LINE ON PARCEL 99 + ADDED PARCEL 99A (DELY, INC.).
 R/W REV. 09/05/07 (TMM): REVISED STATION OFFSETS AND EXISTING RIGHT OF WAY ON PARCEL 99, 99A, 100, 101, 102, 103, 104, 105 AND 106.
 R/W REV. 03/17/09 (RVP): REVISED STATION OFFSETS AND EXISTING RIGHT OF WAY ON PARCEL 99, 99A, 100, 101, 102, 103, 104, 105 AND 106.



FOR -L- PROFILE SEE SHEET 52
FOR -Y17- PROFILE SEE SHEET 66

Permit Drawing
37-86

REVISED
 R/W REV. 11/18/05 (TMM); ADDED DRIVEWAY TO PARCEL 03 AT STA. 11+46.5 -Y17-; REVISED EXIST. R/W TO NUMERICAL OFFSET.
 R/W REV. 01/09/07 (RVP); REVISED PROPERTY OWNER'S NAME AND DEED BOOK INFORMATION ON PARCEL 02.
 R/W REV. 05/16/07 (BSC); REVISED PROPERTY OWNER'S NAME AND PROPERTY LINE ON PARCEL 99; ADDED PARCEL 99A (DELA, INC.).
 R/W REV. 05/05/07 (TMM); REVISED PROPERTY OWNER'S NAME ON PARCEL 01.
 R/W REV. 03/07/09 (RVP); REVISED STATION OFFSETS AND EXISTING RIGHT-OF-WAY ON PARCEL 99, 99A, 001, 002, 003, 004, 005 AND 006.



-Y17-

PI Sta 11+24183 Δ = 15.50' OOD (RT) L = 45.587 R = 165.000	PI Sta 12+01039 Δ = 24.06' OOD (RT) L = 60.894 R = 145.000	PI Sta 12+73510 Δ = 2.32' OOD (RT) L = 41.506 R = 206.556 R = 1000.000
SE = SEE PLANS	SE = SEE PLANS	SE = SEE PLANS

METRIC

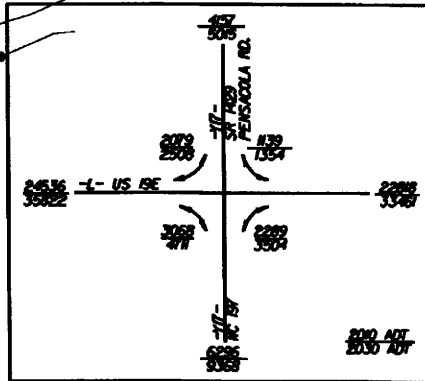
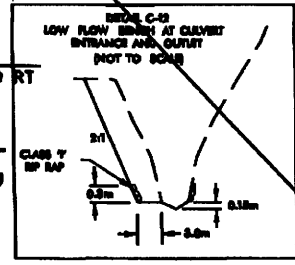
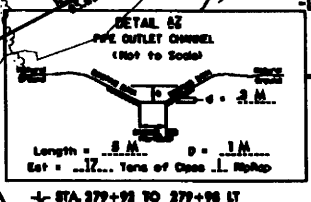
CONST. REV.
 R/W REV.

PROJECT REFERENCE NO. R-2519A	SHEET NO. 20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLAN	

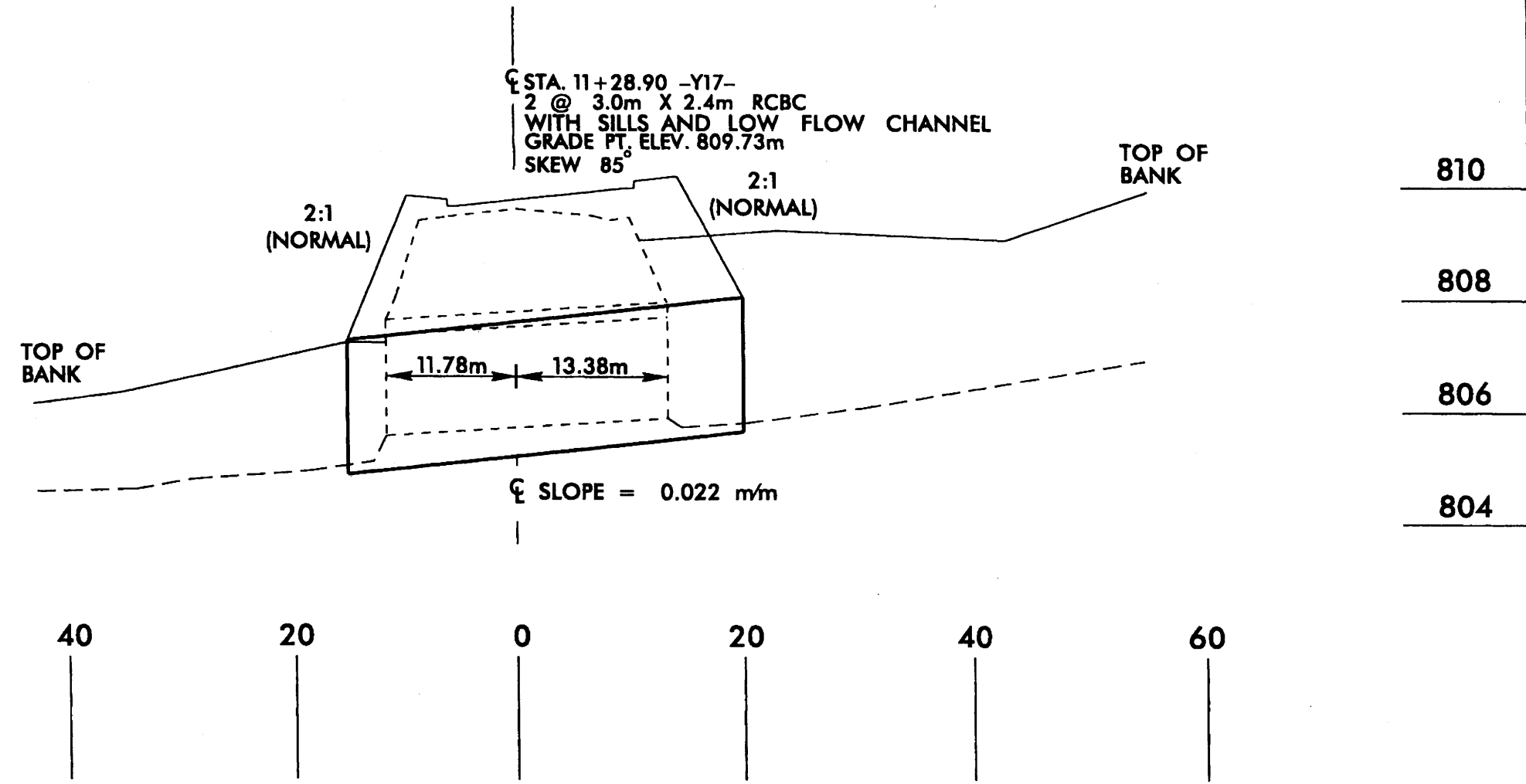
MATCHLINE -L- STA. 278+20 SEE SHEET NO. 19

MATCHLINE -L- STA. 281+60 SEE SHEET NO. 21

MATCHLINE -Y17- STA. 12+30 SEE SHEET NO. 41



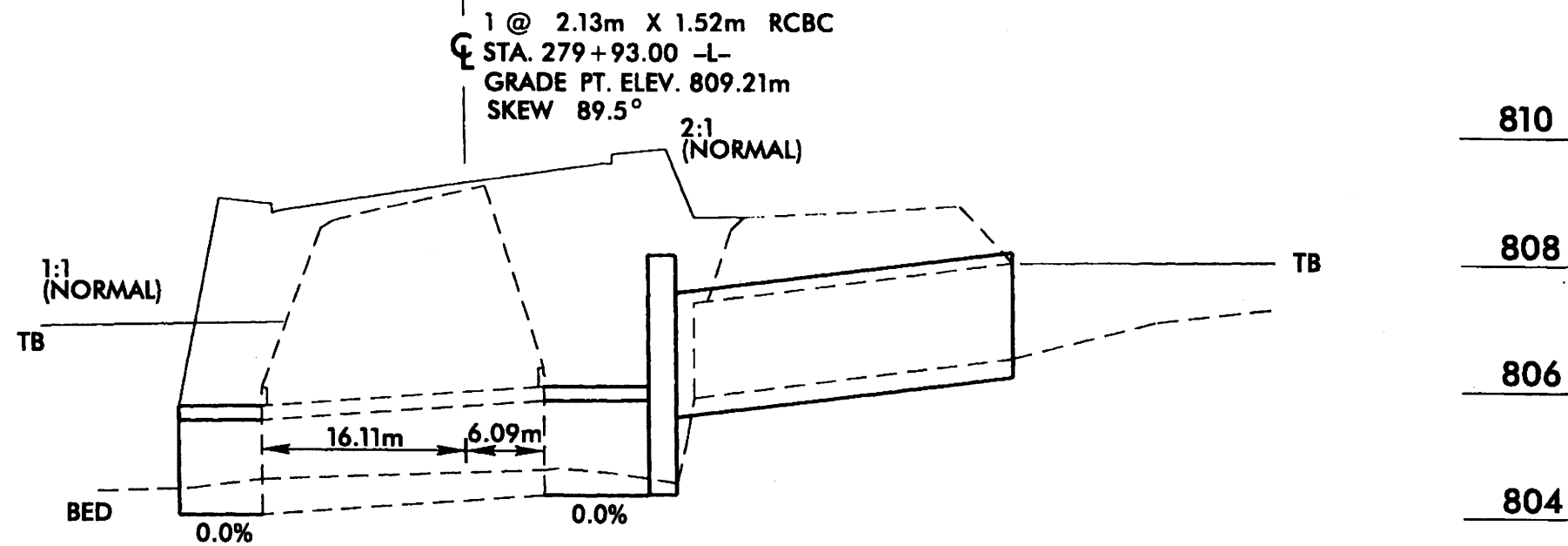
FOR -L- PROFILE SEE SHEET 52
 FOR -Y17- PROFILE SEE SHEET 66



-Y17- STATION 11+28.90
2 @ 3.0m X 2.4M RCBC

SITE 12
PROFILE VIEW

NCDOT
 DIVISION OF HIGHWAYS
 YANCEY COUNTY
 PROJECT: WBS 35609.1.1 (R-2519A)
 US 19 E EAST OF
 SR 1336 (JACKS CREEK ROAD)
 TO SR 1186 (OLD US 19)
 10/25/06



1 @ 2.13m X 1.52m RCBC
 STA. 279+93.00 -L-
 GRADE PT. ELEV. 809.21m
 SKEW 89.5°

1:1
(NORMAL)

2:1
(NORMAL)

TB

TB

BED

0.0%

0.0%

SLOPE = 1.55%

40

20

0

20

40

60

810

808

806

804

-L- STATION 279+93
 1 @ 2.13m X 1.52m RCBC

SITE 13
 PROFILE VIEW

NCDOT
 DIVISION OF HIGHWAYS
 YANCEY COUNTY
 PROJECT: WBS 35609.1.1 (R-2519A)
 US 19 E EAST OF
 SR 1336 (JACKS CREEK ROAD)
 TO SR 1186 (OLD US 19)

10/25/06

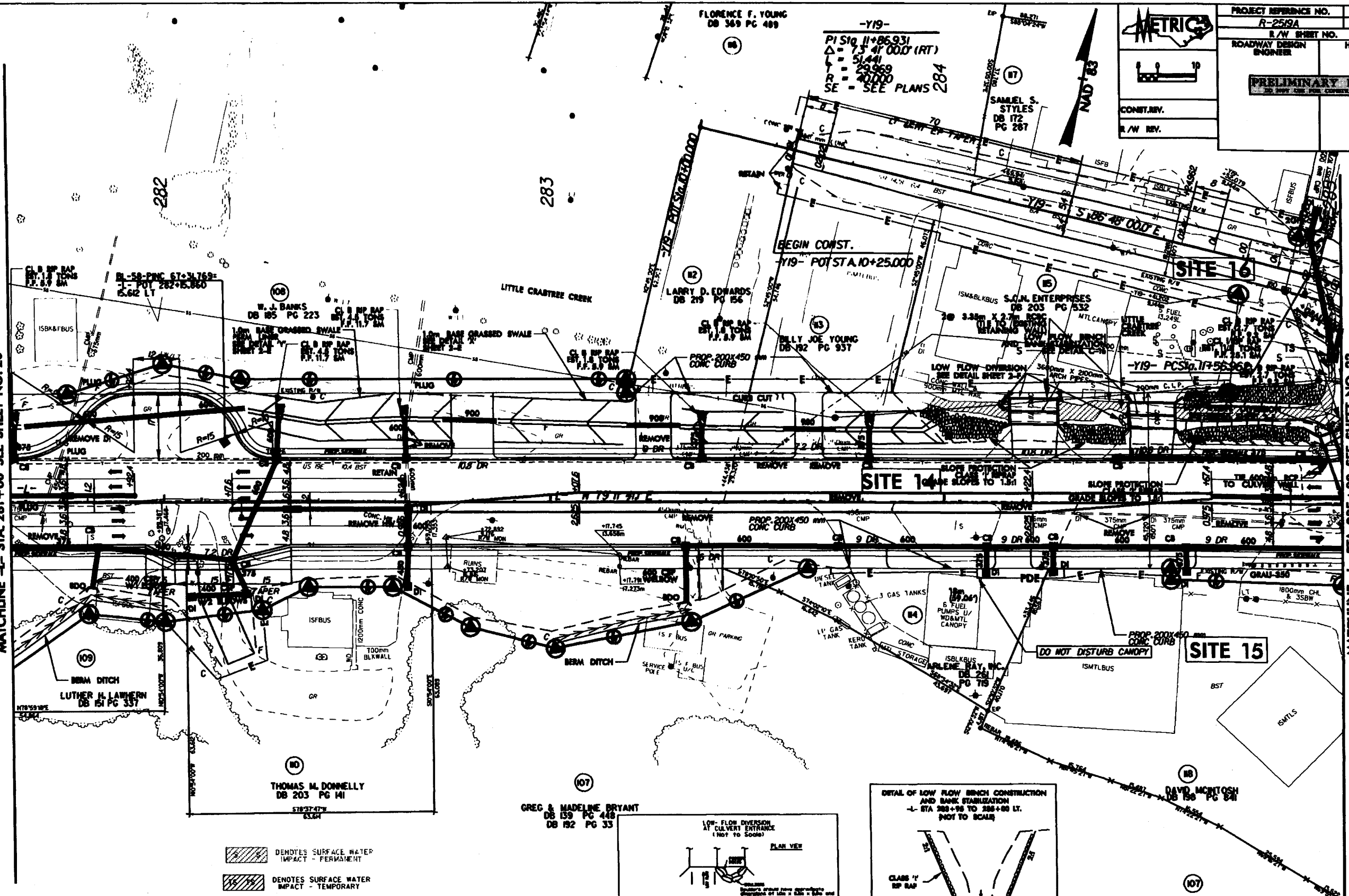
REVISIONS
 R/W REV. 04/19/06 (TMM); ADDED PROPOSED R/W TO NUMERICAL OFFSET; ADDED PROPOSED R/W TO PARCEL III. R/W REV. 04/19/06 (TMM); REVISED CONSTRUCTION EASEMENT ON PARCEL III. R/W REV. 04/19/06 (TMM); ADDED PROPOSED R/W AND ADDED PDE FOR PARCEL III. R/W REV. 04/19/06 (TMM); ADDED PROPOSED R/W AND ADDED PDE FOR PARCEL III. R/W REV. 04/19/06 (TMM); ADDED A 9M DRIVEWAY AT STA. 282+00 ON PARCEL III. R/W REV. 04/19/06 (TMM); ADDED A 6M DRIVEWAY AT STA. 283+48. R/W REV. 04/19/06 (TMM); REVISED PROPOSED R/W ON PARCEL OF TERMINATED PARCEL III AND COMBINED INTO PARCEL OF INCREASED DRIVEWAY AT STA. 282+80 TO RD#M ON PARCEL 108.

FLORENCE F. YOUNG
 DB 349 PG 489
 -Y19-
 P1 STA 11+86.931
 $\Delta = 1.341$ (RT)
 $L = 51.441$
 $R = 29.969$
 $SE = \text{SEE PLANS 284}$

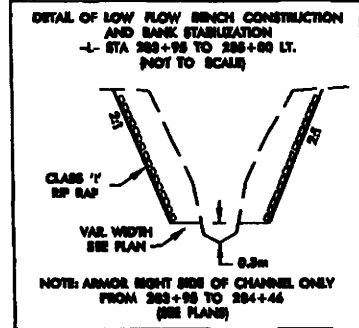
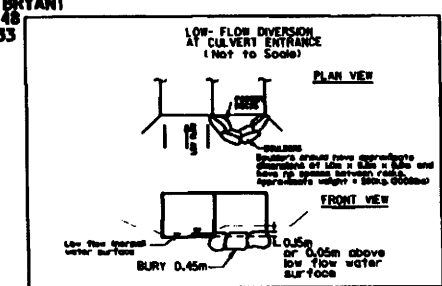
PROJECT REFERENCE NO. R-2519A		SHEET NO. 21	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS 30 DAY PERIOD FOR CONSTRUCTION			
COMMIT. REV.		R/W REV.	

MATCHLINE -L- STA. 281+60 SEE SHEET NO. 20

MATCHLINE -L- STA. 285+00 SEE SHEET NO. 22



DENOTES SURFACE WATER IMPACT - PERMANENT
 DENOTES SURFACE WATER IMPACT - TEMPORARY

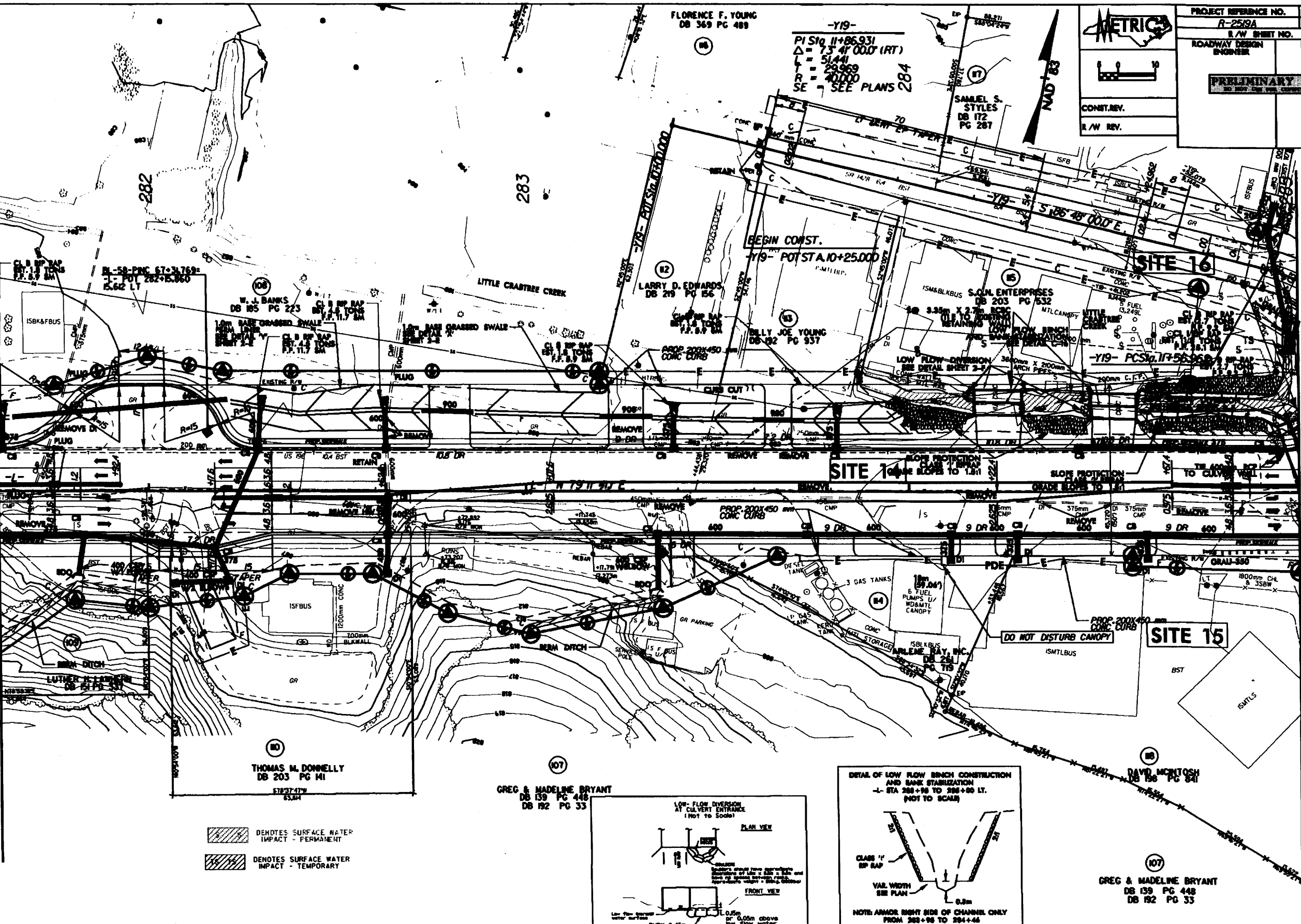


FOR -L- PROFILE SEE SHEET 52
 FOR -Y19- PROFILE SEE SHEET 66

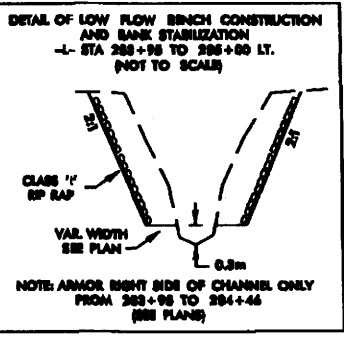
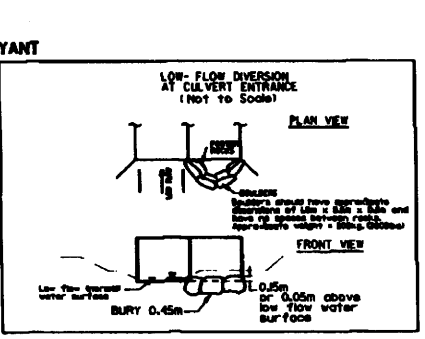
REVISIONS
R/W REV. 11/16/05 (LIMIT): ADDED PROPERTY OWNER NAME FOR PARCEL 11; REVISED EASEMENT; ADDED PROPOSED R/W TO PARCEL 11; AND PARCEL 18;
R/W REV. 02/29/06 (LIMIT): ADDED PROPOSED R/W AND ADDED PDE FOR PARCEL 11; REVISED CONSTRUCTION EASEMENT ON PARCEL 14; AND PARCEL 18;
R/W REV. 05/09/06 (R/W): REMOVED PROPOSED R/W AND ADDED PDE FOR PARCEL 11; REVISED CONSTRUCTION EASEMENT ON PARCEL 14; AND PARCEL 18;
R/W REV. 07/09/07 (R/W): ADDED A 9' DRIVEWAY AT STA. 282+95 ON PARCEL 10; REVISED CONSTRUCTION EASEMENT ON PARCEL 14; AND PARCEL 18;
R/W REV. 09/05/07 (LIMIT): REVISED PROPERTY OWNER NAME; ADDED A 6' DRIVEWAY AT STA. 283+44 & REVISED PROPOSED R/W ON PARCEL 10; ELIMINATED PARCEL 11; AND
COMBINED INTO PARCEL 10; INCREASED DRIVEWAY AT STA. 282+95 TO 10.0m ON PARCEL 10.

MATCHLINE -L- STA 281+60 SEE SHEET NO. 20

MATCHLINE -L- STA. 285+00 SEE SHEET NO. 22



DENOTES SURFACE WATER IMPACT - PERMANENT
 DENOTES SURFACE WATER IMPACT - TEMPORARY



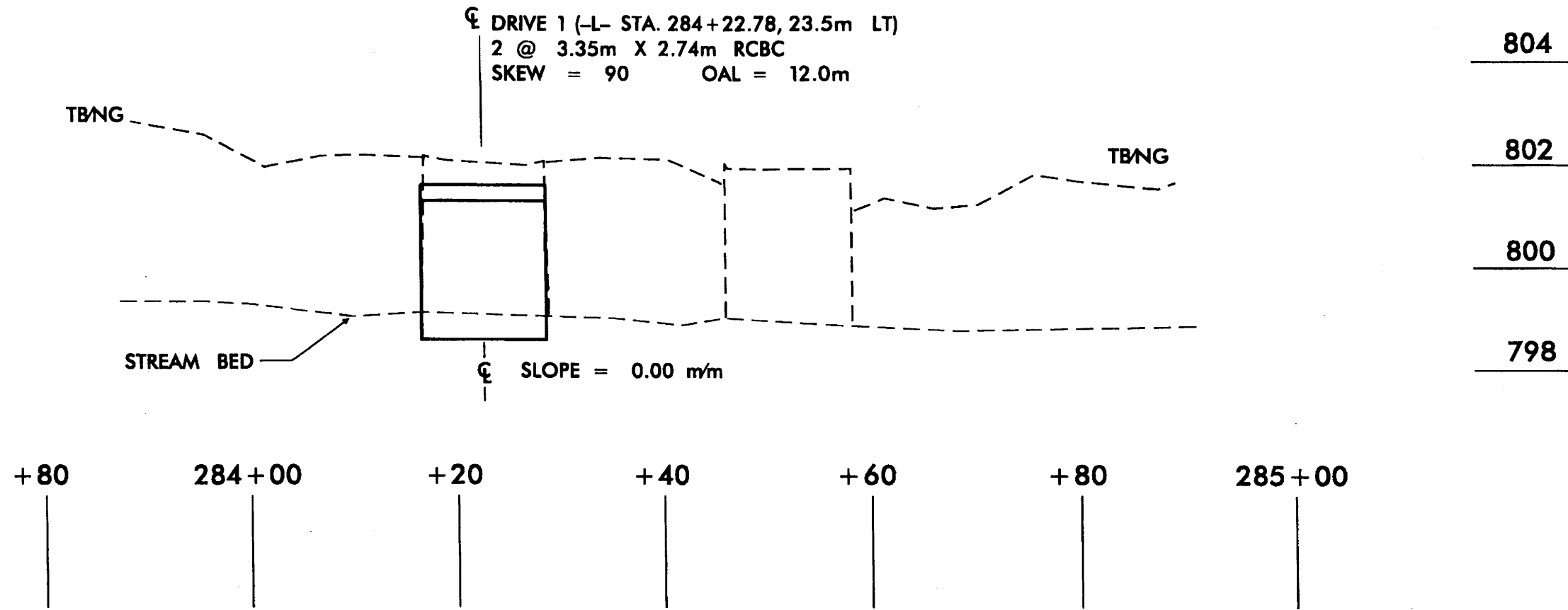
GREG & MADLINE BRYANT
DB 139 PG 448
DB 192 PG 33

FOR -L- PROFILE SEE SHEET 52
FOR -Y19- PROFILE SEE SHEET 66

PROJECT REFERENCE NO. R-2519A		SHEET NO. 21
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	

PRELIMINARY PLANS
NO PART OF THESE PLANS TO BE REPRODUCED

CONST. REV.	
R/W REV.	

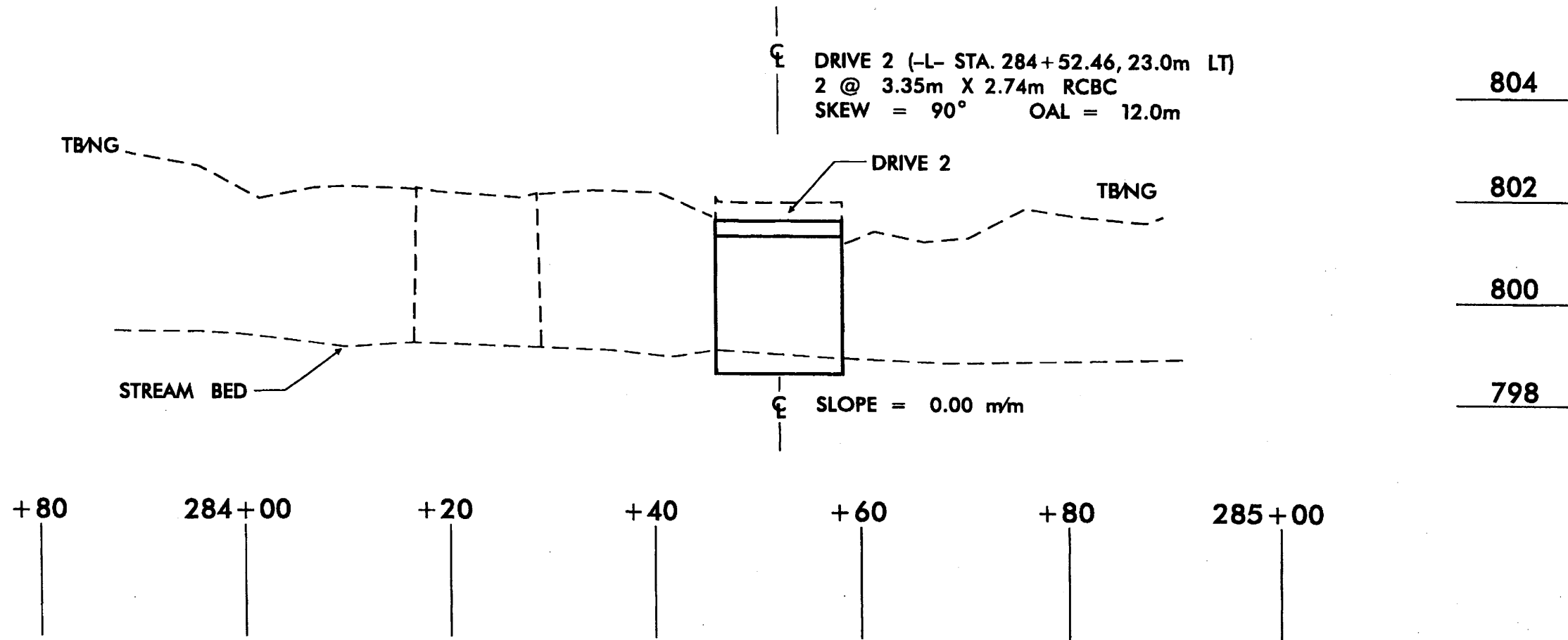


-L- STATION 284+22.78
 2-2 @ 3.35m X 2.71m RCBC

SITE 14
 PROFILE VIEW

NCDOT
 DIVISION OF HIGHWAYS
 YANCEY COUNTY
 PROJECT: WBS 35609.1.1 (R-2519A)
 US 19 E EAST OF
 SR 1336 (JACKS CREEK ROAD)
 TO SR 1186 (OLD US 19)

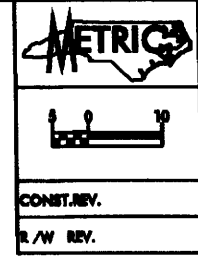
10/25/06



-L- STATION 284+52.46 (23m LT)
2 @ 3.35m X 2.74m RCBC

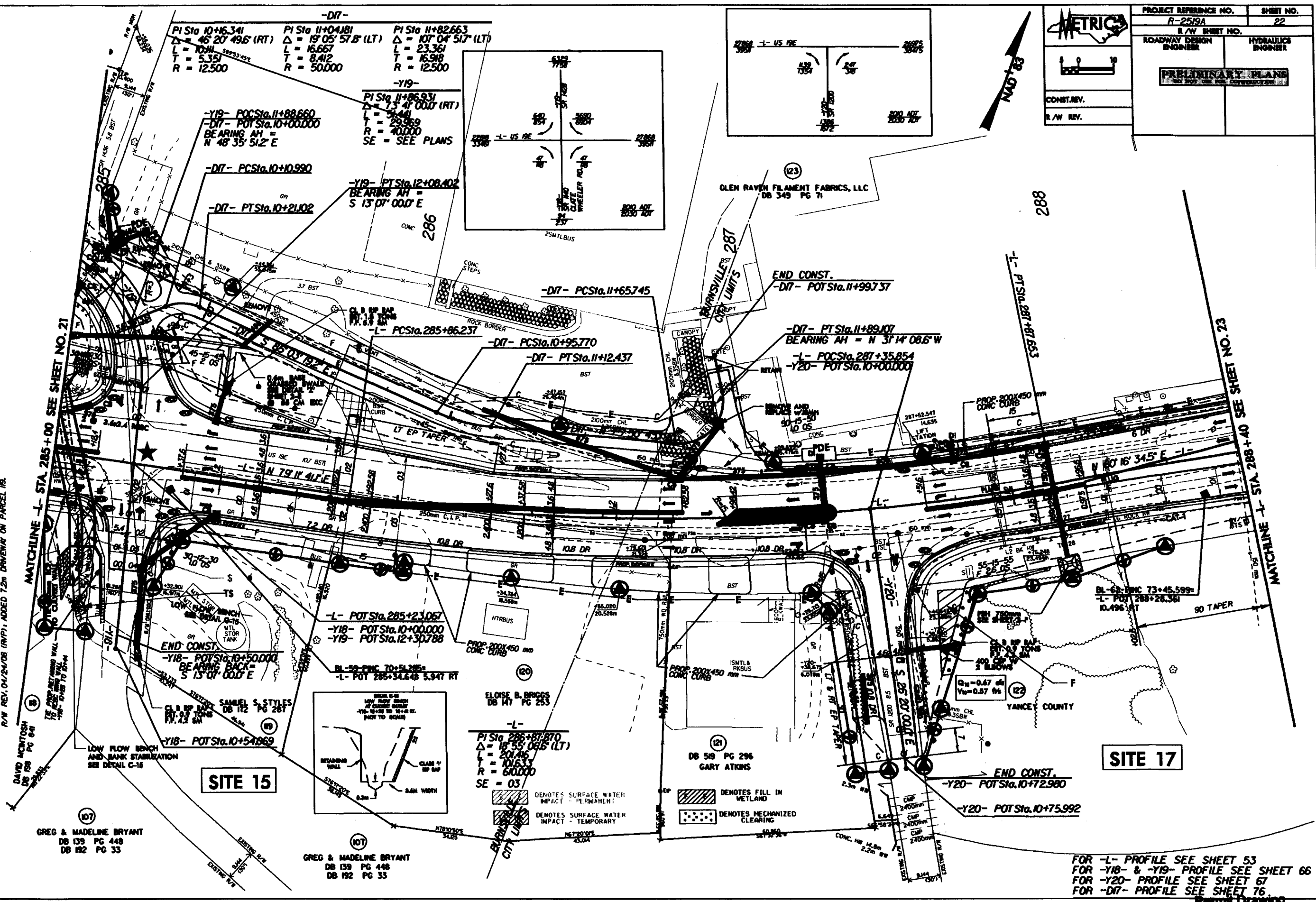
SITE 14
PROFILE VIEW

NCDOT
 DIVISION OF HIGHWAYS
 YANCEY COUNTY
 PROJECT: WBS 35609.1.1 (R-2519A)
 US 19 E EAST OF
 SR 1336 (JACKS CREEK ROAD)
 TO SR 1186 (OLD US 19)
 10/25/06



PROJECT REFERENCE NO.	SHEET NO.
R-259A	22
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS	
CONST. REV.	
R/W REV.	

REVISIONS
 R/W REV. 11/18/05 (T/MW); REVISED PROPERTY OWNER NAME & DEED BOOK INFORMATION ON PARCEL 122 ADDED LEFTOVER @ STA 285+05 AND DRIVEWAY DIT FOR PARCEL 123
 REVISED EXIST. R/W TO NUMERICAL OFFSET, ADDED PROPOSED R/W AND CONSTRUCTION R/W AND CONSTRUCTION EASEMENT TO PARCEL 123
 R/W REV. 12/20/06 (KMM); REVISED PROPERTY OWNER NAME, DEED BOOK INFORMATION, AND ADDED A DRIVEWAY ON PARCEL 124 REMOVED CONSTRUCTION EASEMENT AND ADDED POE
 ON PARCEL 123
 R/W REV. 01/09/07 (RVP); REVISED PROPOSED R/W ON PARCEL 122 REVISED PROPERTY OWNER'S NAME AND DEED BOOK INFORMATION ON PARCEL 123
 R/W REV. 05/16/07 (BSC); ADDED 6M DRIVE AT STA 288+45 ON PARCEL 123
 R/W REV. 08/06/07 (T/MW); REVISED PROPERTY OWNER NAME ON PARCEL 107, ELIMINATED PARCEL 111 AND COMBINED INTO PARCEL 107.
 R/W REV. 04/24/08 (RVP); ADDED 7.2m DRIVEWAY ON PARCEL 107.



-D7-
 PI Sta 10+16.341 Δ = 46° 20' 49.6" (RT) L = 10.11 T = 5.35 R = 12.500
 PI Sta 11+04.181 Δ = 19° 05' 57.8" (LT) L = 16.667 T = 8.412 R = 50.000
 PI Sta 11+82.663 Δ = 107° 04' 51.7" (LT) L = 23.361 T = 16.918 R = 12.500

-Y19-
 PI Sta 11+86.931 Δ = 73° 41' 00.0" (RT) L = 34.441 T = 29.969 R = 40.000
 SE = SEE PLANS

-Y19- POC Sta. 11+88.660
 -D7- POT Sta. 10+00.000
 BEARING AH = N 48° 35' 51.2" E

-D7- PC Sta. 10+10.990

-Y19- PT Sta. 12+08.402
 BEARING AH = S 13° 07' 00.0" E

-D7- PTS Sta. 10+21.02

-D7- PC Sta. 11+65.745

-L- PC Sta. 285+86.237

-D7- PC Sta. 10+95.770

-D7- PT Sta. 11+12.437

-D7- PT Sta. 11+89.107
 BEARING AH = N 31° 14' 08.6" W

-L- POC Sta. 287+35.854

-Y20- POT Sta. 10+00.000

-L- POT Sta. 285+23.067
 -Y18- POT Sta. 10+00.000
 -Y19- POT Sta. 12+30.788

END CONST.
 -Y18- POT Sta. 10+50.000
 BEARING BACK = S 13° 07' 00.0" E

-Y18- POT Sta. 10+54.669

-L-
 PI Sta 286+87.870 Δ = 18° 55' 06.6" (LT) L = 20.116 T = 10.633 R = 60.000
 SE = 03

END CONST.
 -Y20- POT Sta. 10+72.980

-Y20- POT Sta. 10+75.992

GREG & MADELINE BRYANT
 DB 139 PG 448
 DB 192 PG 33

GREG & MADELINE BRYANT
 DB 139 PG 448
 DB 192 PG 33

DB 519 PG 296
 GARY ATKINS

DEMOTES SURFACE WATER
 IMPACT - PERMANENT
 DEMOTES SURFACE WATER
 IMPACT - TEMPORARY

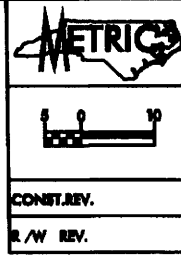
DEMOTES FILL IN
 WETLAND
 DEMOTES MECHANIZED
 CLEARING

SITE 17

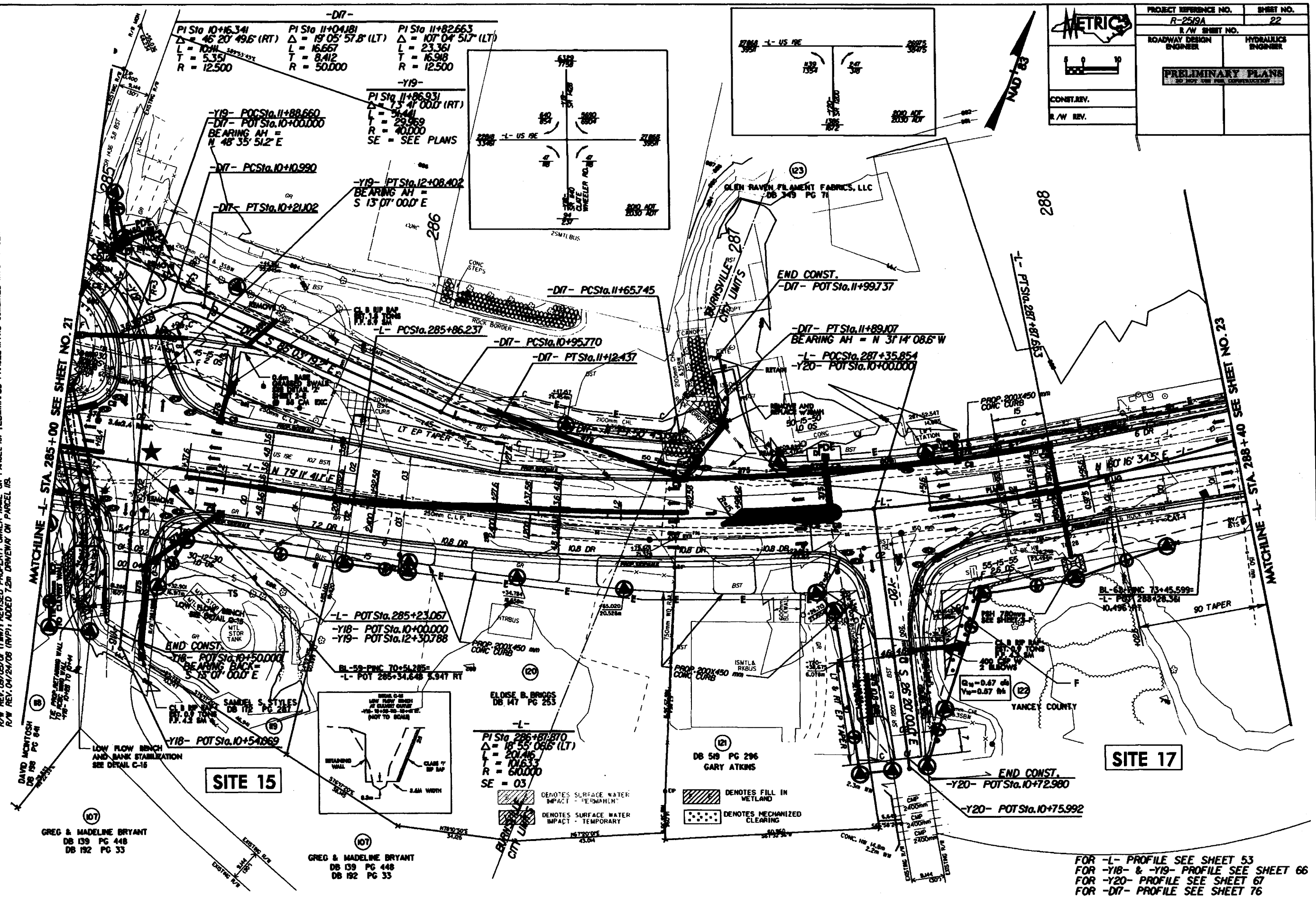
FOR -L- PROFILE SEE SHEET 53
 FOR -Y18- & -Y19- PROFILE SEE SHEET 66
 FOR -Y20- PROFILE SEE SHEET 67
 FOR -D7- PROFILE SEE SHEET 76

Permit Drawing
 sheet 45 of 86

PROJECT REFERENCE NO.		SHEET NO.	
R-2519A		22	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS			
DO NOT USE FOR CONSTRUCTION			
CONTR. REV.			
R/W REV.			



REVISIONS:
 R/W REV. 01/15/08 (MVP); REVISION PROPERTY OWNER NAME ON PARCEL 122, ADDED LEFTOVER @ STA 285+85 AND DRIVEWAY D7 FOR PARCEL 123, REVISED EAST R/W TO INTERSECT OFF-SET, ADDED PROPOSED R/W AND CONSTRUCTION EASEMENT TO PARCEL 123.
 R/W REV. 02/07/08 (MVP); REVISED PROPERTY OWNER NAME DEED BOOK INFORMATION AND ADDED DRIVEWAY ON PARCEL 123, REVISED EAST R/W TO INTERSECT OFF-SET, ADDED PROPOSED R/W AND CONSTRUCTION EASEMENT TO PARCEL 123.
 R/W REV. 03/10/08 (MVP); REVISED PROPERTY OWNER NAME DEED BOOK INFORMATION AND ADDED DRIVEWAY ON PARCEL 123, REVISED EAST R/W TO INTERSECT OFF-SET, ADDED PROPOSED R/W AND CONSTRUCTION EASEMENT TO PARCEL 123.
 R/W REV. 05/16/08 (MVP); ADDED G4 DRIVE AT STA 285+45 ON PARCEL 123.
 R/W REV. 08/05/08 (MVP); REVISED PROPERTY OWNER NAME ON PARCEL 107, ELIMINATED PARCEL 111 AND COMBINED INTO PARCEL 107.
 R/W REV. 04/24/08 (MVP); ADDED 7.2m DRIVEWAY ON PARCEL 118.



MATCHLINE - STA 285+00 SEE SHEET NO. 21

MATCHLINE - STA 288+40 SEE SHEET NO. 23

GREG & MADLINE BRYANT
DB 139 PG 448
DB 192 PG 33

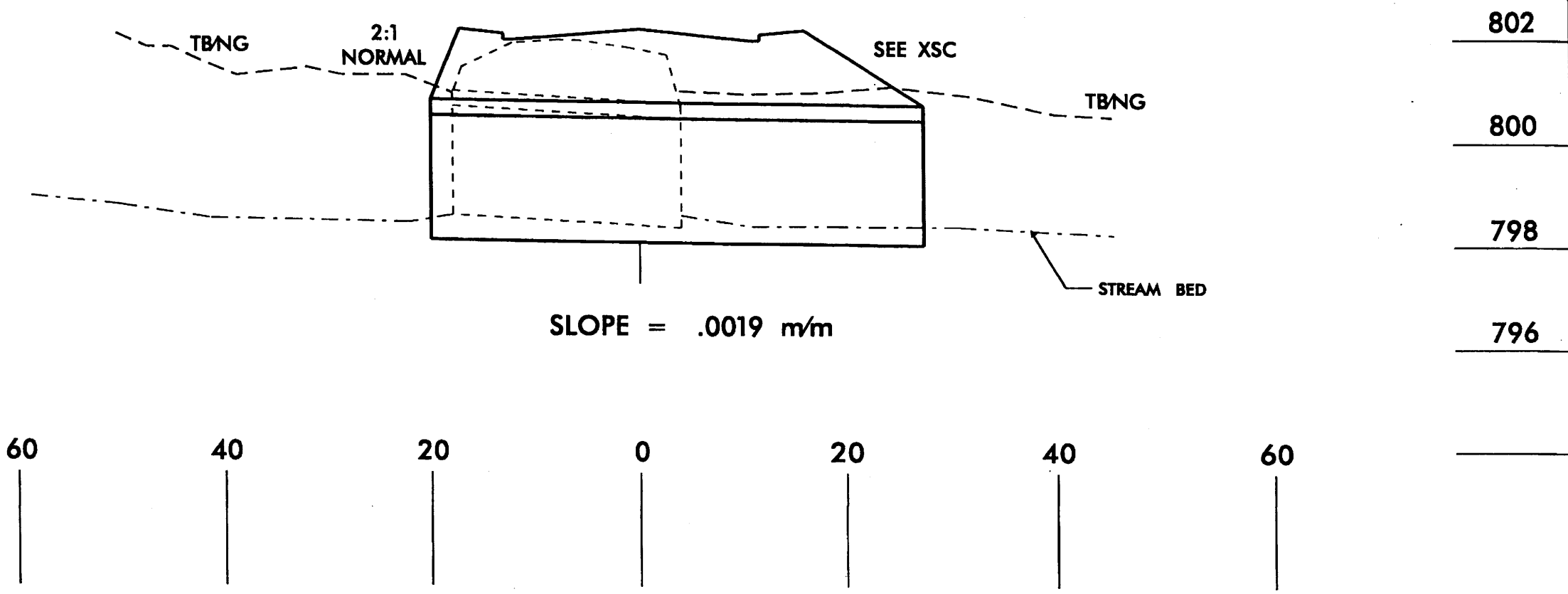
GREG & MADLINE BRYANT
DB 139 PG 448
DB 192 PG 33

SITE 17

FOR -L- PROFILE SEE SHEET 53
 FOR -Y18- & -Y19- PROFILE SEE SHEET 66
 FOR -Y20- PROFILE SEE SHEET 67
 FOR -D7- PROFILE SEE SHEET 76

Permit Drawing
46

CL - STA. 285+04.66
 2 @ 3.6m X 2.4m RCBC
 GRADE PT. ELEV. 802.14m
 SKEW=70



-L- STATION 285+04.66
 2 @ 3.6m X 2.4m RCBC

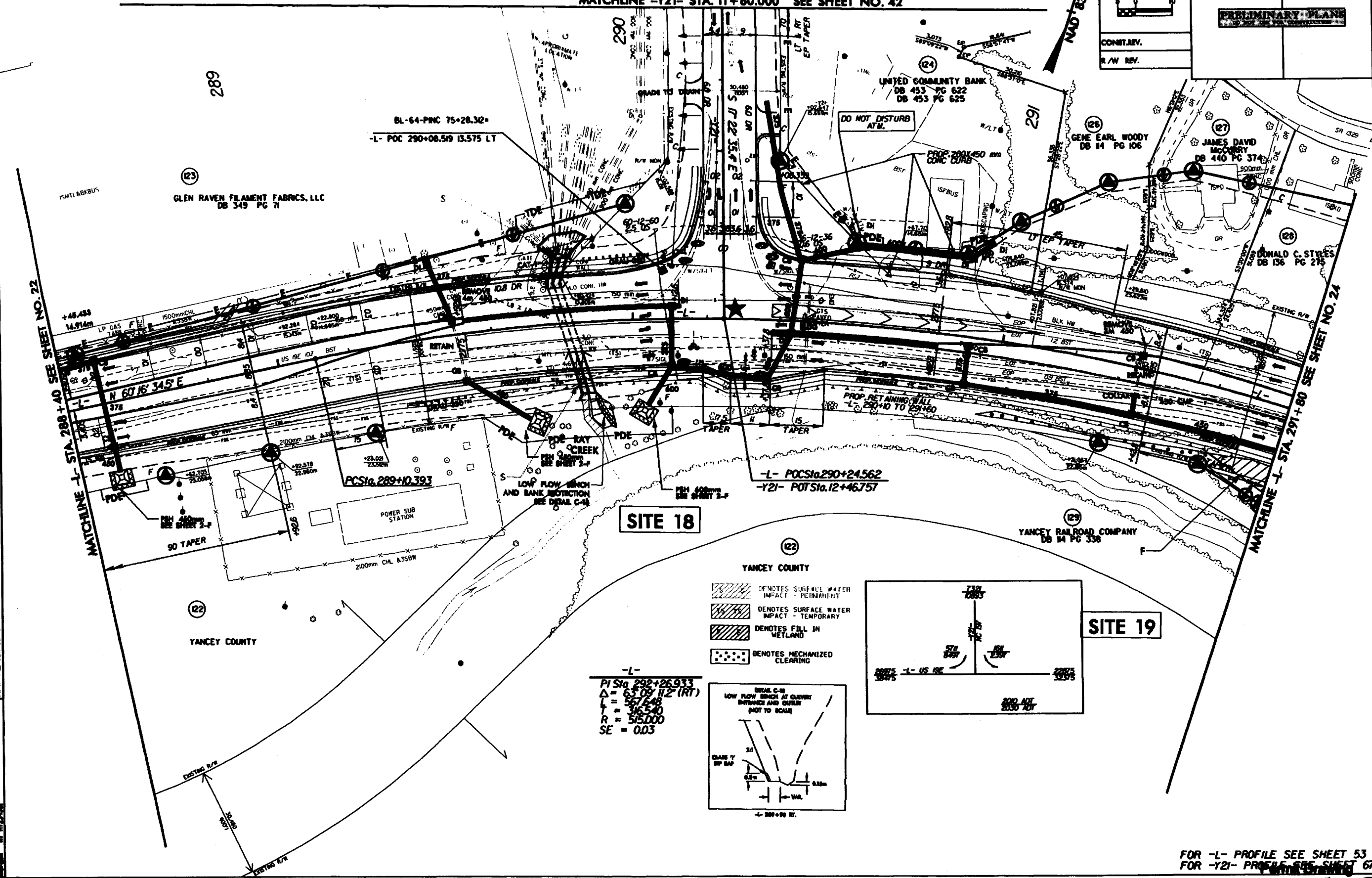
SITE 15
 PROFILE VIEW

NCDOT
 DIVISION OF HIGHWAYS
 YANCEY COUNTY
 PROJECT: WBS 35609.1.1 (R-2519A)
 US 19 E EAST OF
 SR 1336 (JACKS CREEK ROAD)
 TO SR 1186 (OLD US 19)
 10 / 25 / 06

REVISIONS
 R/W REV. 02/14/15 (TMM); REVISED PROPERTY OWNER NAME & DEED BOOK INFORMATION ON PARCELS 122, 124 & 127; REVISED EXIST. R/W TO
 R/W REV. 02/17/15 (TMM); ADDED CHANNELIZATION ON PARCEL 124; REVISED R/W & CONSTRUCTION EASEMENT & ADDED PDE.
 R/W REV. 04/16/15 (TMM); REVISED PDE ON PARCEL 124.
 R/W REV. 07/08/15 (TMM); REVISED PROPERTY OWNERS NAME AND DEED BOOK INFORMATION ON PARCEL 123.

MATCHLINE -Y21- STA. 11+60.000 SEE SHEET NO. 42

PROJECT REFERENCE NO. R-2519A		SHEET NO. 23	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS			
CONTRAV.			
R/W REV.			

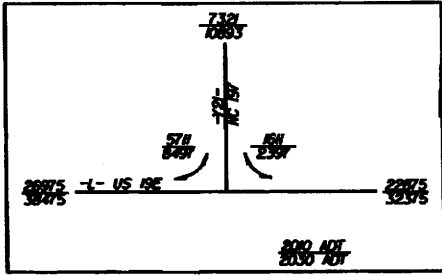
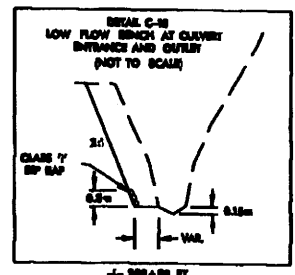


SITE 18

SITE 19

- DENOTES SURFACE WATER IMPACT - PERMANENT
- DENOTES SURFACE WATER IMPACT - TEMPORARY
- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING

-L-
 PI Sta. 292+26.933
 $\Delta = 63.09 \text{ (RT)}$
 $L = 567.48$
 $T = 316.540$
 $R = 515.000$
 $SE = 0.03$

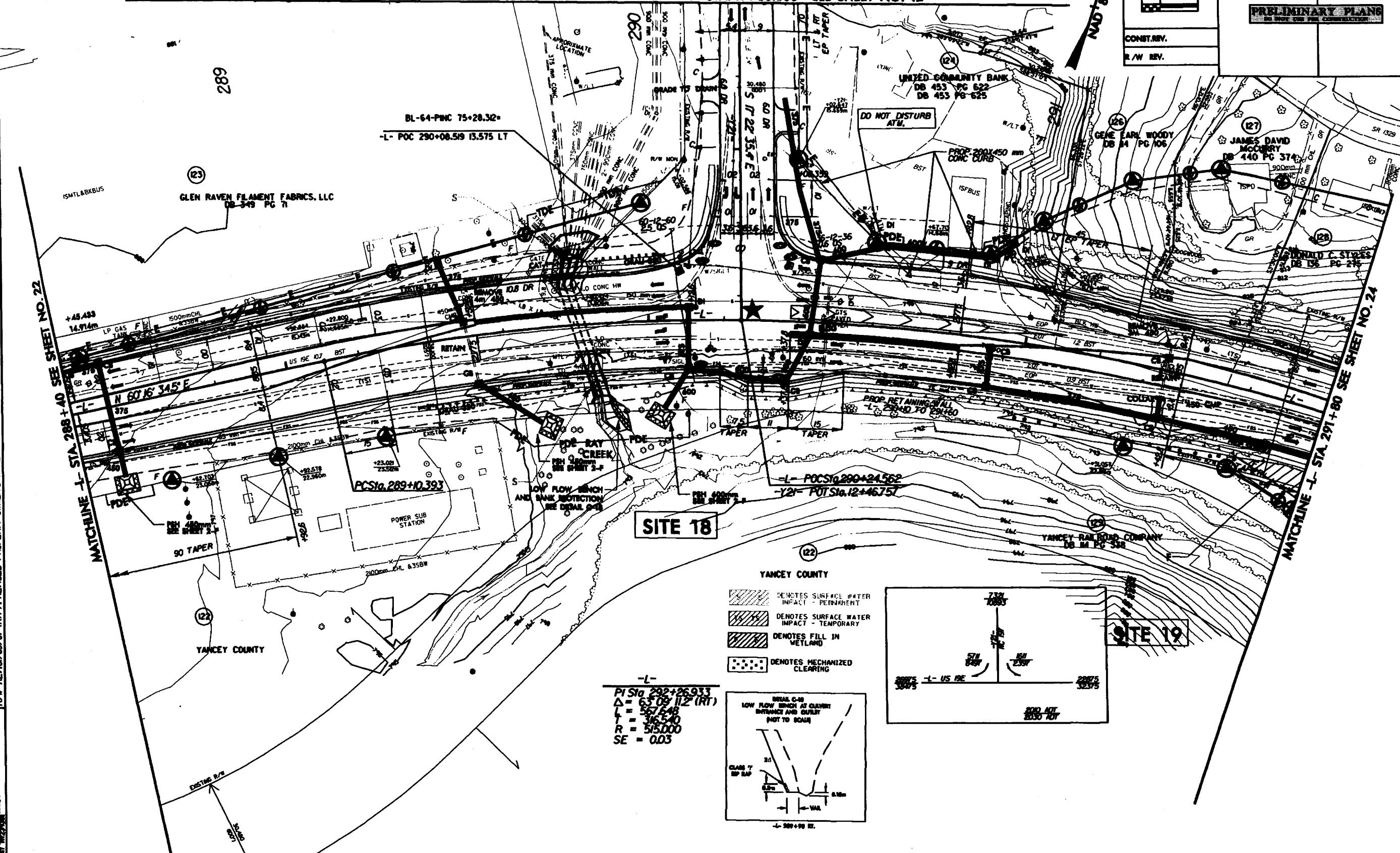


FOR -L- PROFILE SEE SHEET 53
 FOR -Y21- PROFILE SEE SHEET 67

PROJECT REFERENCE NO.		SHEET NO.	
R-2519A		23	
R/W SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS			
CONST. REV.		R/W REV.	

MATCHLINE -Y21- STA. 11+60.000 SEE SHEET NO. 42

REVISIONS
 R/W REV. 11/18/05 (TMM): REVISED PROPERTY OWNER NAME & DEED BOOK INFORMATION ON PARCELS 122, 124 & 127; REVISED EXIST. R/W TO NUMERICAL OF 1.5E1.
 R/W REV. 02/27/06 (TMM): ADDED CHANNELIZATION ON PARCEL 124; REVISED R/W & CONSTRUCTION EASEMENT & ADDED PDE.
 R/W REV. 04/19/06 (TMM): REVISED PDE ON PARCEL 124.
 R/W REV. 07/09/07 (RWP): REVISED PROPERTY OWNERS NAME AND DEED BOOK INFORMATION ON PARCEL 123.

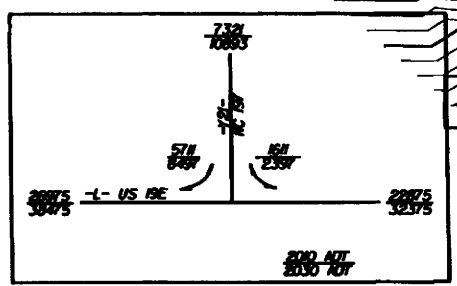
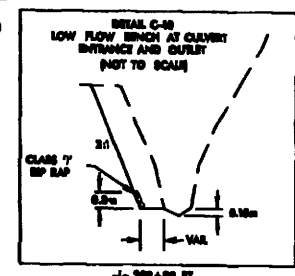


SITE 18

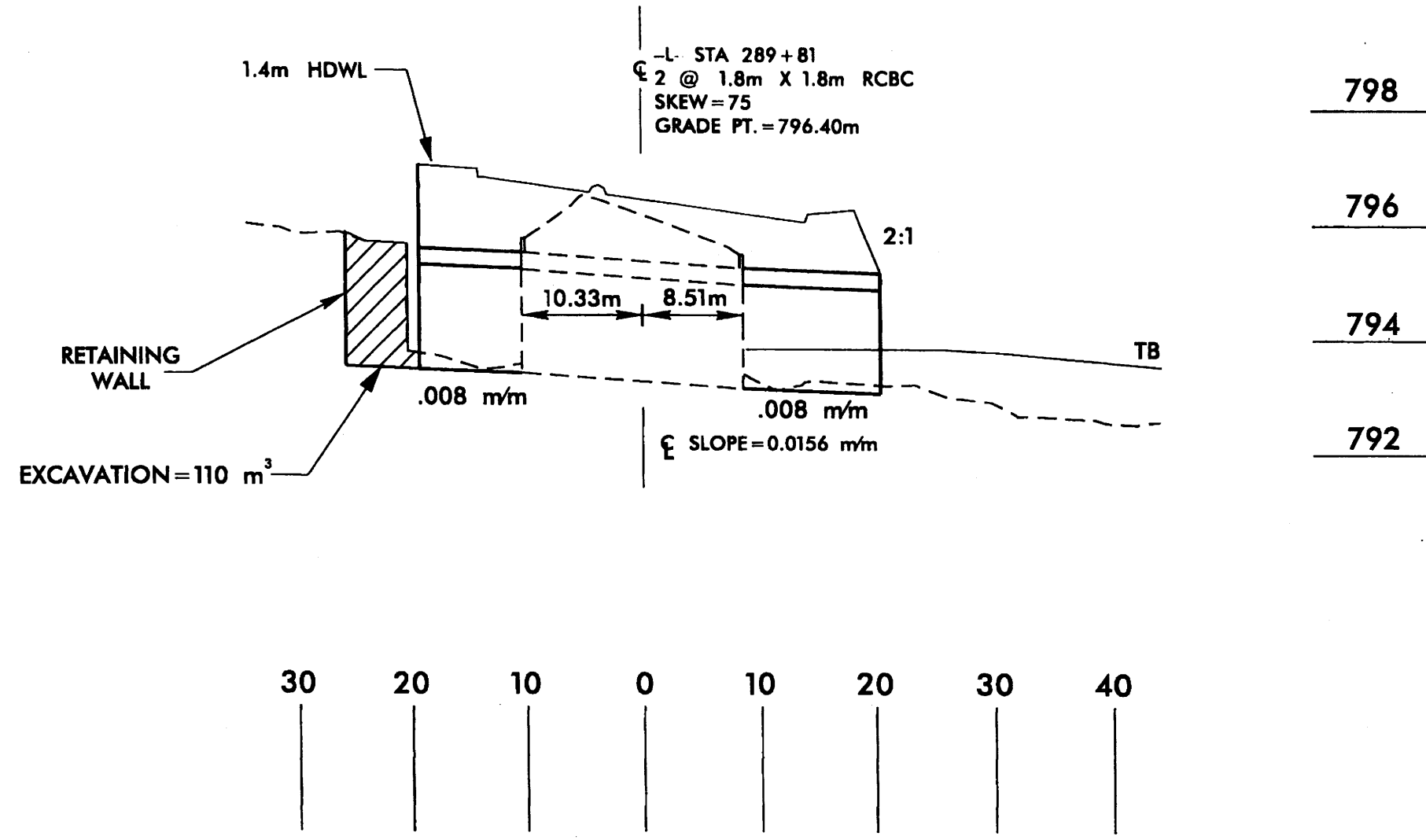
SITE 19

- YANCEY COUNTY**
- DENOTES SURFACE WATER IMPACT - PERMANENT
 - DENOTES SURFACE WATER IMPACT - TEMPORARY
 - DENOTES FILL IN WETLAND
 - DENOTES MECHANIZED CLEARING

-L-
 PI Sta 292+26.933
 $\Delta = 63.09112$ (RT)
 L = 567.648
 T = 316.540
 R = 515.000
 SE = 0.03



FOR -L- PROFILE SEE SHEET 53
 FOR -Y21- PROFILE SEE SHEET 67
 Permit Drawing
 Sheet 49 - 86

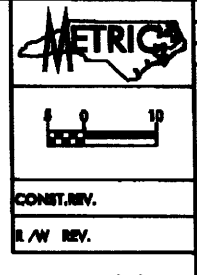


-L- STATION 289+81
2 @ 1.8m X 1.8m RCBC

SITE 18
PROFILE VIEW

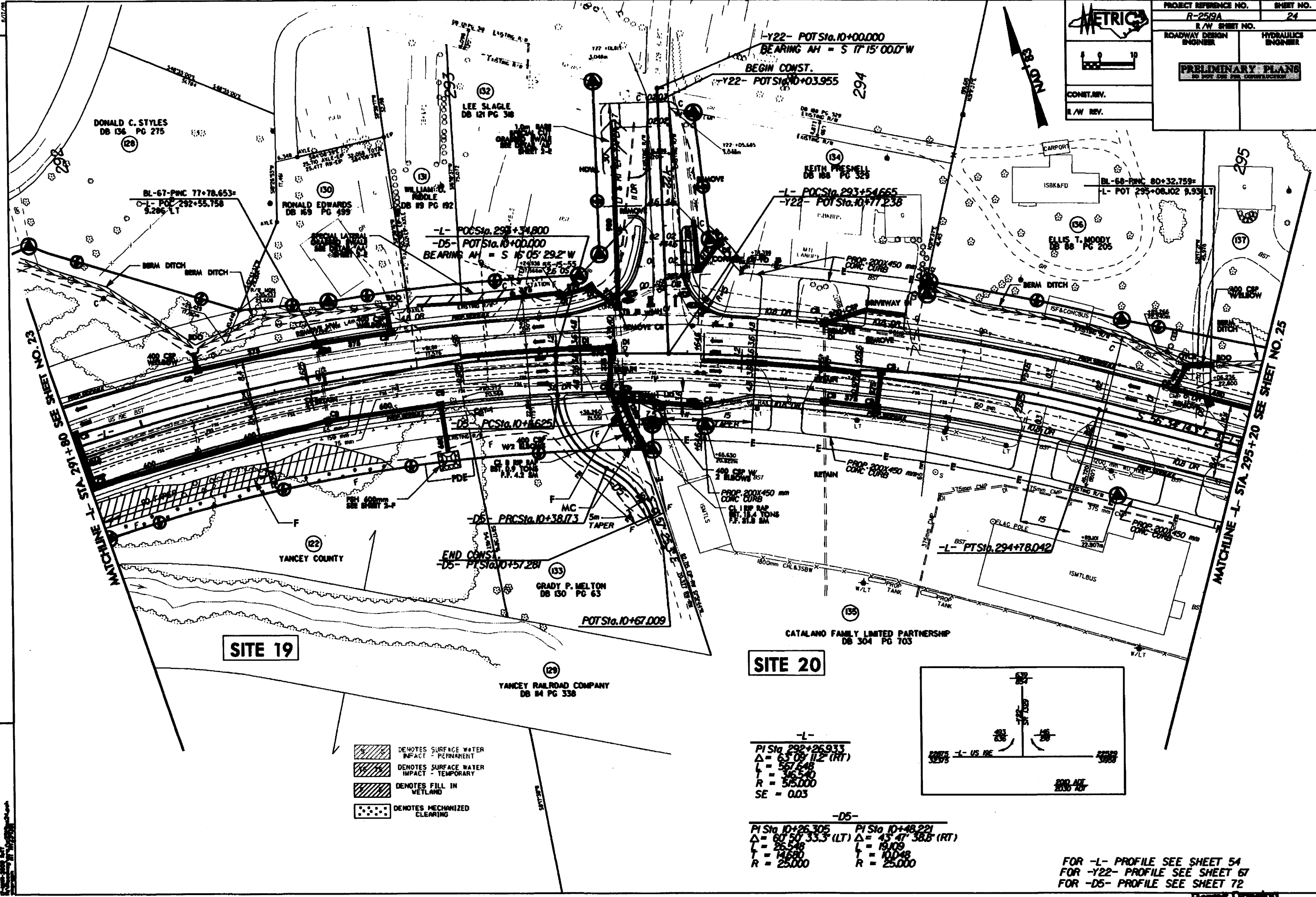
NCDOT
DIVISION OF HIGHWAYS
YANCEY COUNTY
PROJECT: WBS 35609.1.1 (R-2519A)
US 19 E EAST OF
SR 1336 (JACKS CREEK ROAD)
TO SR 1186 (OLD US 19)

10 / 25 / 06



PROJECT REFERENCE NO. R-2519A	SHEET NO. 24
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS	
DO NOT USE FOR CONSTRUCTION	
CONST. REV.	
R/W REV.	

R/W REV. 11/18/05 (7MM), REVISED PROPERTY OWNER NAME & DEED BOOK INFORMATION ON PARCEL 122 - REVISED EXIST. R/W TO NUMERICAL OFFSET.



MATCHLINE - STA 2+161.80 SEE SHEET NO. 23

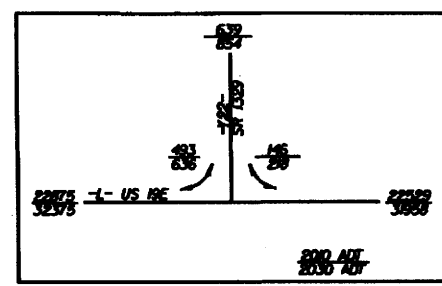
MATCHLINE - STA 295+20 SEE SHEET NO. 25

SITE 19

SITE 20

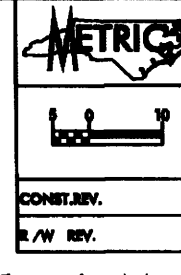
- DENOTES SURFACE WATER IMPACT - PERMANENT
- DENOTES SURFACE WATER IMPACT - TEMPORARY
- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING

-L-
 PI Sta 292+26933
 $\Delta = 63^{\circ} 09' 11.2" (RT)$
 L = 567.648
 T = 365.540
 R = 515.000
 SE = 0.03



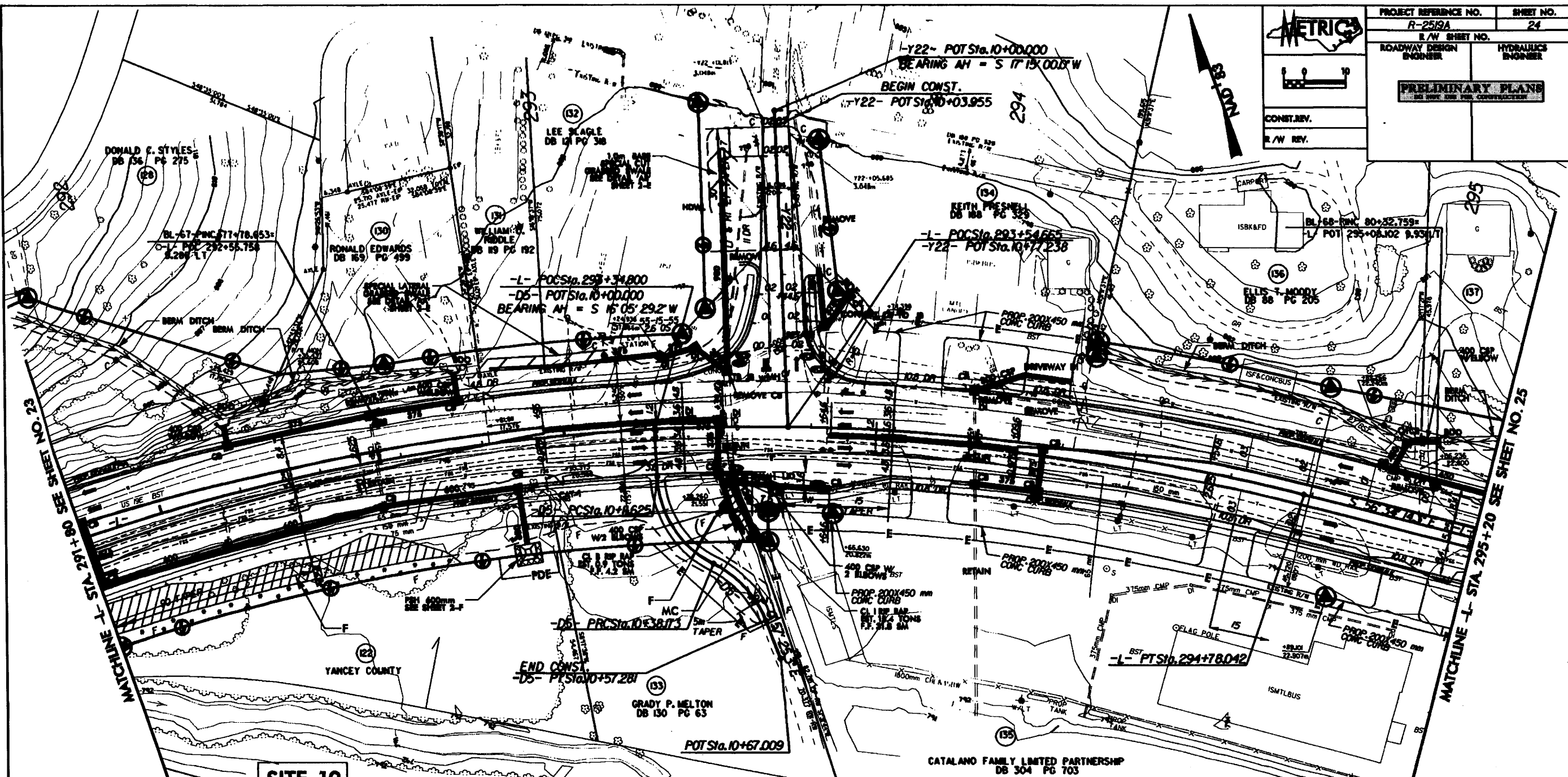
-D5-
 PI Sta 10+26.305 PI Sta 10+48.221
 $\Delta = 60^{\circ} 50' 33.3" (LT)$ $\Delta = 45^{\circ} 47' 38.8" (RT)$
 L = 26.548 L = 19.109
 T = 14.680 T = 10.048
 R = 25.000 R = 25.000

FOR -L- PROFILE SEE SHEET 54
 FOR -Y22- PROFILE SEE SHEET 67
 FOR -D5- PROFILE SEE SHEET 72



PROJECT REFERENCE NO. R-2519A	SHEET NO. 24
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS	
CONST. REV.	
R/W REV.	

R/W REV. 11/18/05 (7MM); REVISED PROPERTY OWNER NAME & DEED BOOK INFORMATION ON PARCEL 122 - REVISED EXIST. R/W TO NUMERICAL OFFSET.



MATCHLINE -L- STA. 162+180 SEE SHEET NO. 23

MATCHLINE -L- STA. 295+20 SEE SHEET NO. 25

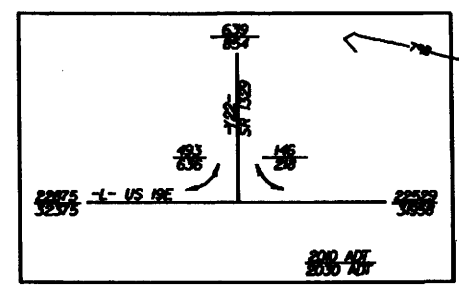
SITE 19

SITE 20

- DENOTES SURFACE WATER IMPACT - PERMANENT
- DENOTES SURFACE WATER IMPACT - TEMPORARY
- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING

-L-
 PI Sta. 292+26.933
 $\Delta = 63' 09'' 11.2'' (RT)$
 $L = 567.648$
 $T = 365.640$
 $R = 515.000$
 $SE = 0.03$

-DS-
 PI Sta. 10+26.305 PI Sta. 10+48.221
 $\Delta = 60' 50'' 33.3'' (LT)$ $\Delta = 43' 47'' 38.8'' (RT)$
 $L = 26.548$ $L = 19.109$
 $T = 146.800$ $T = 100.48$
 $R = 25.000$ $R = 25.000$



FOR -L- PROFILE SEE SHEET 54
 FOR -Y22- PROFILE SEE SHEET 67
 FOR -DS- PROFILE SEE SHEET 72

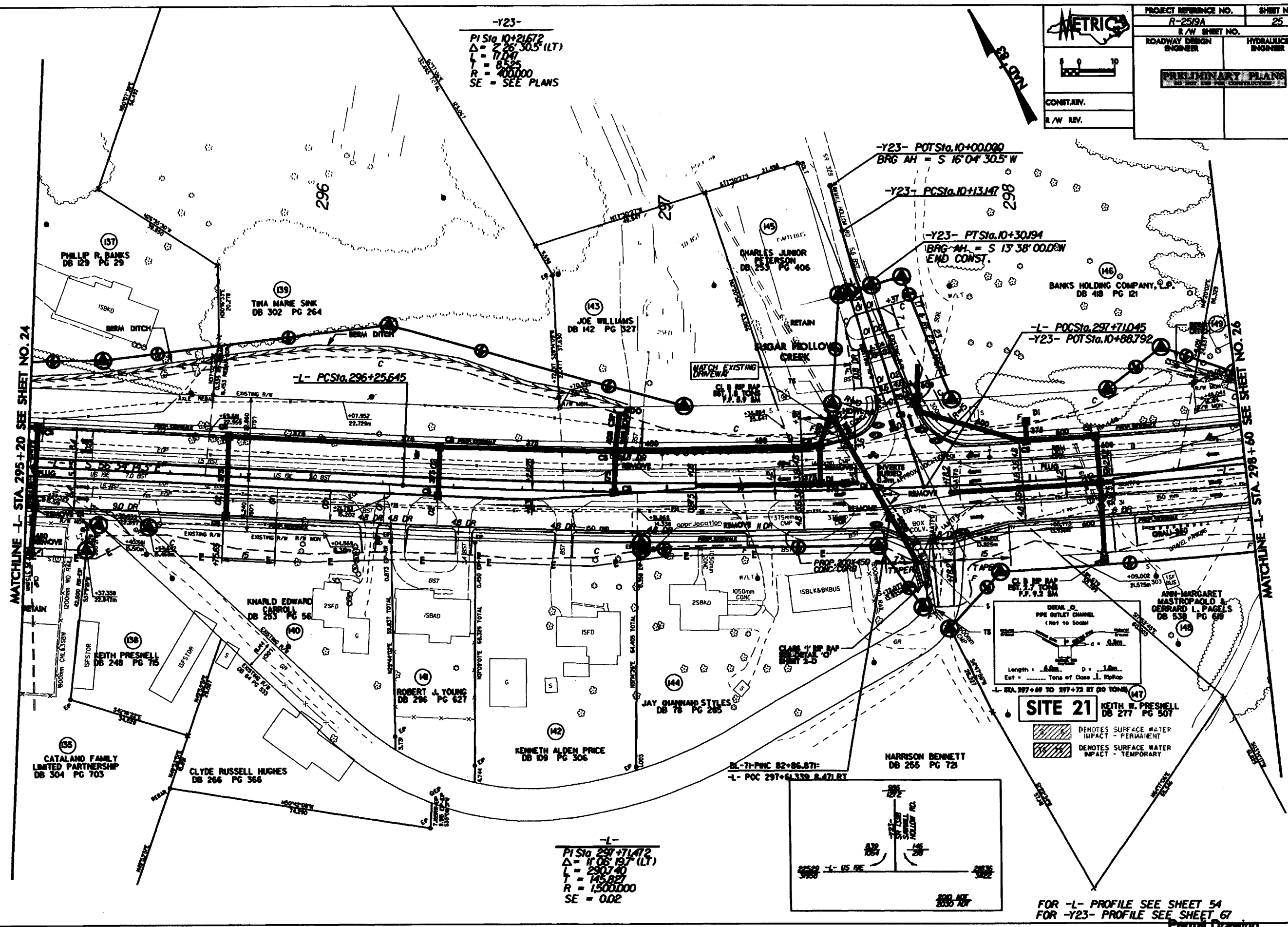
METRIC

CONTRARY.
R/W REV.

PROJECT REFERENCE NO.	SHEET NO.
R-259A	25
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS	

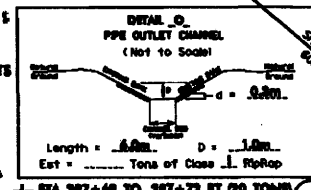
-Y23-
 PI Sta 10+21672
 $\Delta = 2' 26' 30.5" (LT)$
 L = 17.047
 R = 8.525
 R = 400.000
 SE = SEE PLANS

REVISIONS:
 R/W REV. 01/30/05 (TMM); REVISED EXIST. R/W TO NUMERICAL OFFSET.
 R/W REV. 01/30/05 (TMM); REVISED CONST. EASEMENT, RELOCATED R/W & MOVED DRIVEWAY FROM STA 295+80 TO STA 295+45 ON PARCEL 144, INCREASED SIZE OF 6M DRIVEWAY TO 10.0M ON PARCEL 144.
 R/W REV. 03/30/07 (NVP); REVISED A DRIVEWAY TO MATCH EXISTING PAVEMENT ON PARCEL 145.
 R/W REV. 08/05/07 (TMM); REVISED PROPERTY OWNER NAME AND DEED BOOK INFORMATION, & ADDED A 6M DRIVEWAY ON PARCEL 149, ADDED NOTE ON PARCEL 145.
 R/W REV. 10/25/07 (NVP); ADDED 4.8m DRIVEWAY AT STA. 298+91 ON PARCEL 144.



MATCHLINE L- STA. 295+20 SEE SHEET NO. 24

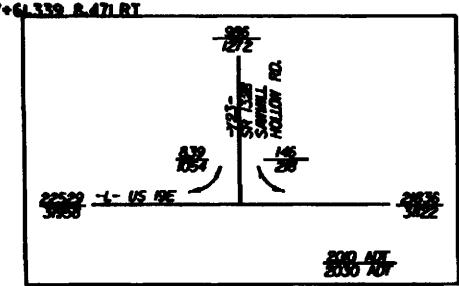
MATCHLINE L- STA. 298+60 SEE SHEET NO. 26



SITE 21 KEITH W. PRESNELL DB 277 PG 507

DENOTES SURFACE WATER IMPACT - PERMANENT
 DENOTES SURFACE WATER IMPACT - TEMPORARY

-L-
 PI Sta 297+71472
 $\Delta = 1' 06' 19" (LT)$
 L = 2507.40
 R = 145.827
 R = 1500.000
 SE = 0.02



FOR -L- PROFILE SEE SHEET 54
 FOR -Y23- PROFILE SEE SHEET 67

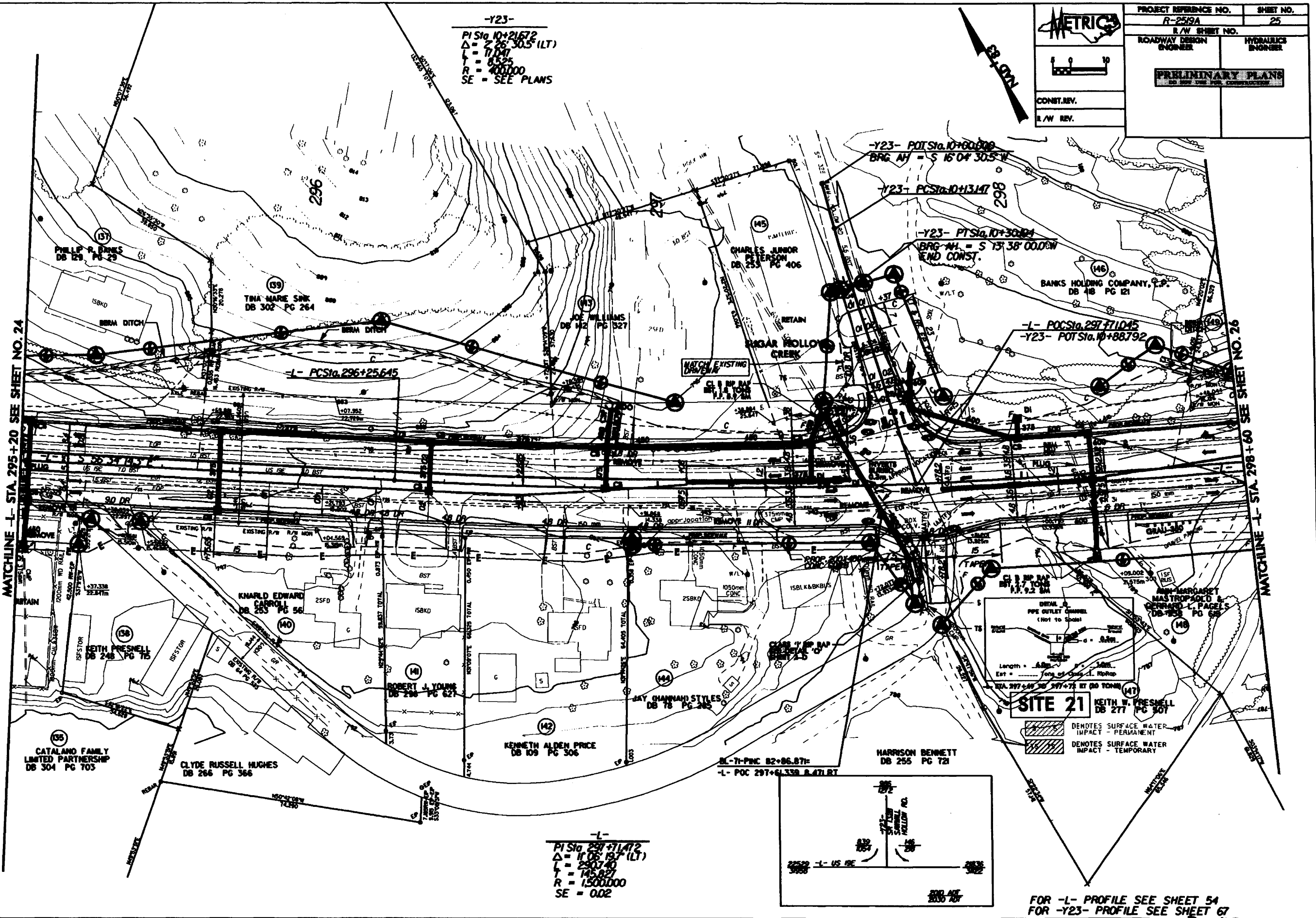
REVISIONS
 R/W REV. 01/30/05 (T/M); REVISED EXIST. R/W TO NUMERICAL OFFSET.
 R/W REV. 01/30/05 (T/M); REVISED CONST. EASEMENT, REMOVED R/W & MOVED DRIVEWAY FROM STA 295+40 TO STA 295+45 ON PARCEL 140, INCREASED SIZE OF 6M DRIVEWAY TO 10.0M ON PARCEL 140.
 R/W REV. 03/30/07 (N/P); REVISED A DRIVEWAY TO MATCH EXISTING PAVEMENT ON PARCEL 145.
 R/W REV. 05/15/07 (J/S); REVISED PROPERTY OWNER NAME, DELETED BOOK INFORMATION, & ADDED A 6M DRIVEWAY ON PARCEL 148, ADDED NOTE ON PARCEL 148.
 R/W REV. 10/25/07 (N/P); REVISED PROPERTY OWNER NAME, DELETED BOOK INFORMATION, & ADDED A 6M DRIVEWAY ON PARCEL 148, ADDED NOTE ON PARCEL 148.

-Y23-
 PI Sta 10+21672
 $\Delta = 226.305$ (LT)
 $L = 11.047$
 $T = 6.525$
 $R = 400.000$
 SE = SEE PLANS

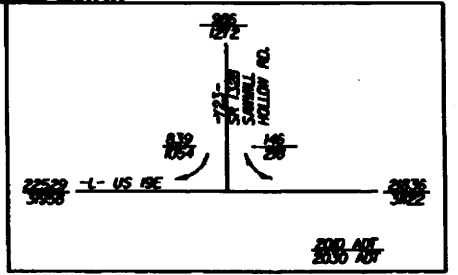
PROJECT REFERENCE NO. R-2519A		SHEET NO. 25	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS			
CONST. REV.			
R/W REV.			

MATCHLINE -L- STA. 295+20 SEE SHEET NO. 24

MATCHLINE -L- STA. 298+60 SEE SHEET NO. 26



-L-
 PI Sta 297+71472
 $\Delta = 1108.197$ (LT)
 $L = 290.740$
 $T = 145.827$
 $R = 1500.000$
 SE = 0.02

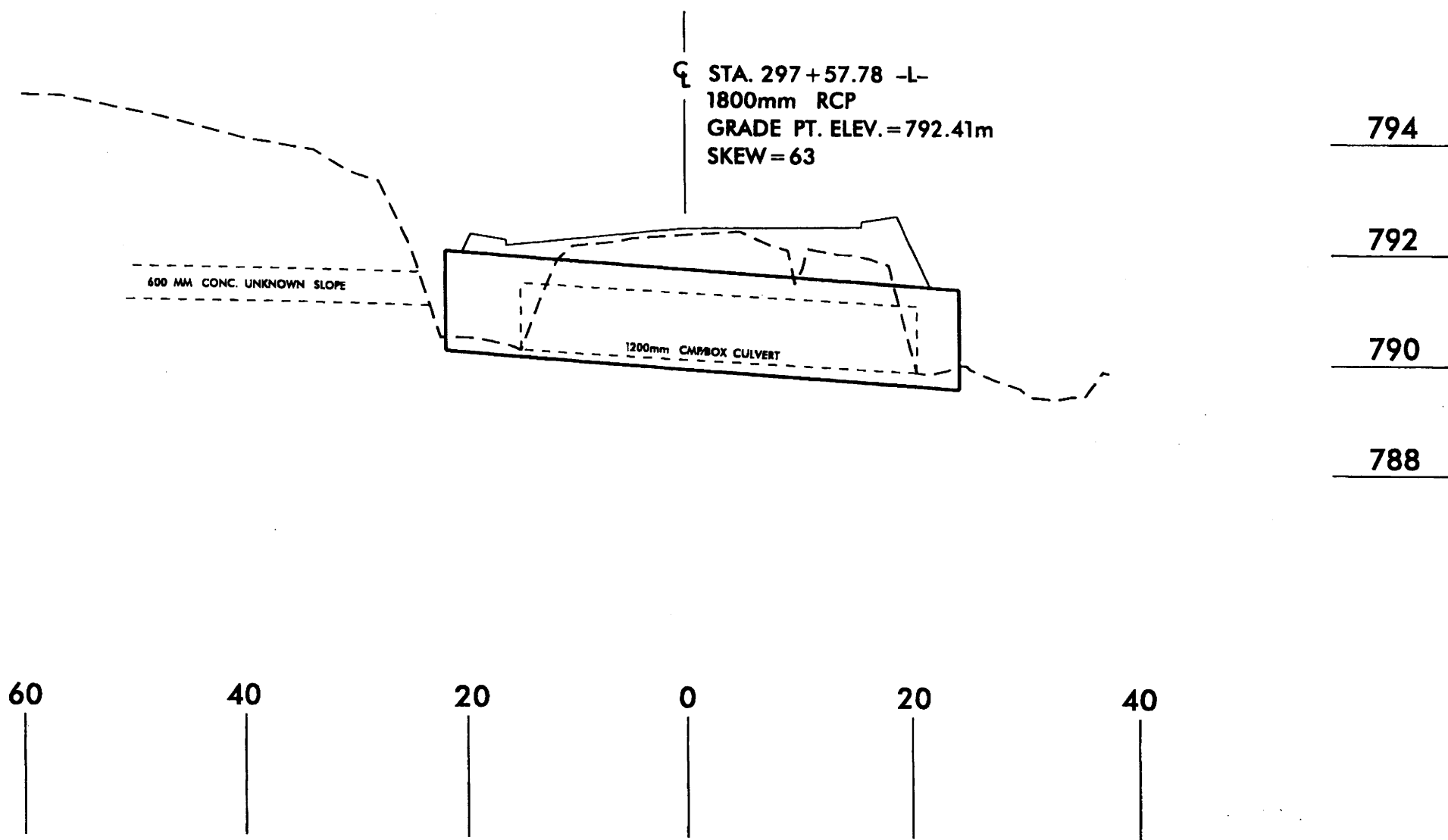


SITE 21 KEITH W. PRESNELL
 DB 277 PG 307

DENOTES SURFACE WATER IMPACT - PERMANENT
 DENOTES SURFACE WATER IMPACT - TEMPORARY

FOR -L- PROFILE SEE SHEET 54
 FOR -Y23- PROFILE SEE SHEET 67

Permit Drawing
 Sheet 54 of 56



-L- STATION 297 + 57.78
1800mm RCP

SITE 21
PROFILE VIEW

NCDOT
 DIVISION OF HIGHWAYS
 YANCEY COUNTY
 PROJECT: WBS 35609.1.1 (R-2519A)
 US 19 E EAST OF
 SR 1336 (JACKS CREEK ROAD)
 TO SR 1186 (OLD US 19)

10 / 25 / 06

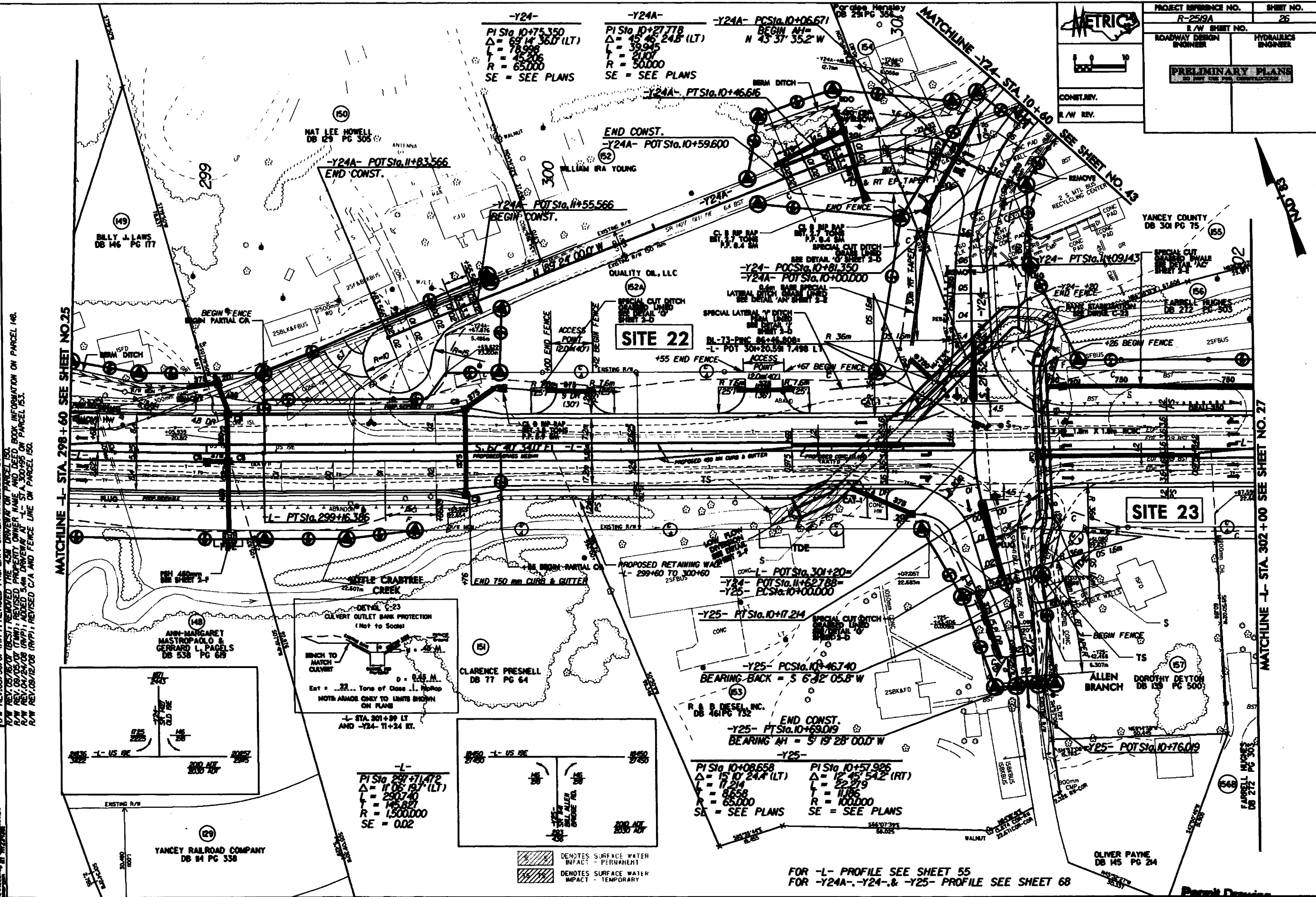


PROJECT REFERENCE NO.	SHEET NO.
R-2519A	26
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
CONST. REV.	
R/W REV.	

R/W REV. 11/18/05 (TMM); CHANGED PARCEL NUMBER ON 152 (TERRILL YOUNG) TO 152A; REVISED PROPERTY OWNER NAME & ADDED DRIVEWAY & ADDED DRIVEWAY AT
 -Y24A- 10+46 FOR PARCEL 152; REVISED C/A LINE FROM STA. 298+67.2 TO 299+65; CHANGED PARCEL NUMBER 156 (FARRELL HUGHES) TO 156B; REVISED EAST R/W TO
 NUMERICAL OFFSET
 R/W REV. 12/15/05 (TMM); REVISED PROPERTY OWNER NAME & ADDED DRIVEWAYS AND ACCESS POINTS AT STA. 300+05 AND 300+61 FOR PARCEL 152A
 R/W REV. 03/30/07 (RWPI); REVISED PROPERTY OWNER NAME, DEED BOOK INFORMATION AND ADDED PROPOSED DRIVEWAY FROM -L- STA. 300+95 TO -Y25- STA. 300+95 TO
 R/W REV. 05/16/07 (BSIT); REMOVED THE 25M DRIVEWAY ON PARCEL 155
 R/W REV. 09/05/07 (TMM); REVISED PROPERTY OWNER NAME AND DEED BOOK INFORMATION
 R/W REV. 01/24/08 (RWPI); ADDED 3.4M DRIVEWAY AT -L- STA. 300+95 ON PARCEL 153
 R/W REV. 09/12/08 (RWPI); REVISED C/A AND FENCE LINE ON PARCEL 153

MATCHLINE -L- STA. 298+60 SEE SHEET NO. 25

MATCHLINE -L- STA. 302+00 SEE SHEET NO. 27



-Y24-
 PI Sta 10+75.350
 $\Delta = 69.14.36.0$ (LT)
 $L = 78.996$
 $T = 45.206$
 $R = 65.000$
 SE = SEE PLANS

-Y24A-
 PI Sta 10+27.778
 $\Delta = 45.46.24.8$ (LT)
 $L = 39.945$
 $T = 21.07$
 $R = 50.000$
 SE = SEE PLANS

-Y24A- PCSig. 10+06.671
 BEGIN AH =
 $N 43.37.35.2$ W

END CONST.
 -Y24A- POT Sta. 10+59.600

-Y24A- POT Sta. 11+83.566
 END CONST.

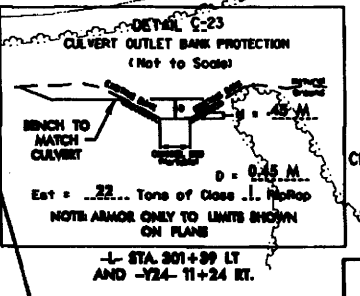
-Y24A- POT Sta. 11+55.566
 BEGIN CONST.

-Y24- PCSig. 10+81.350
 -Y24A- POT Sta. 10+00.000

-Y24- POT Sta. 10+20.591
 $L = 1.498$ LT

SITE 22

SITE 23



-L-
 PI Sta 299+71.472
 $\Delta = 11.06.19.7$ (LT)
 $L = 290.740$
 $T = 145.821$
 $R = 1500.000$
 SE = 0.02

-Y25- PCSig. 10+467.40
 BEARING BACK = $S 6.32.05.6$ W

END CONST.
 -Y25- POT Sta. 10+169.019
 BEARING AH = $S 19.28.00.0$ W

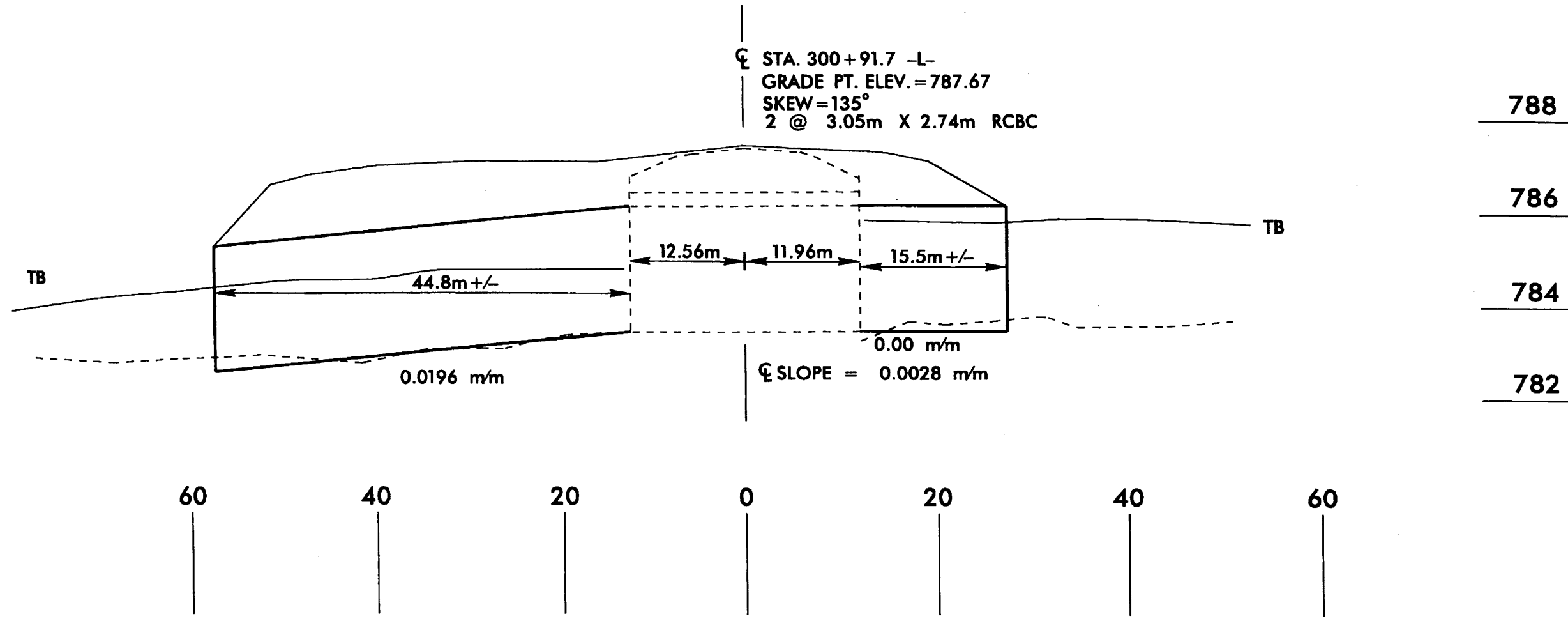
-Y25-
 PI Sta 10+08.658
 $\Delta = 15.10.24.4$ (LT)
 $L = 17.214$
 $T = 8.658$
 $R = 65.000$
 SE = SEE PLANS

PI Sta 10+57.926
 $\Delta = 12.45.54.2$ (RT)
 $L = 22.279$
 $T = 11.186$
 $R = 100.000$
 SE = SEE PLANS

DENOTES SURFACE WATER IMPACT - PERMANENT
 DENOTES SURFACE WATER IMPACT - TEMPORARY

FOR -L- PROFILE SEE SHEET 55
 FOR -Y24A-, -Y24- & -Y25- PROFILE SEE SHEET 68

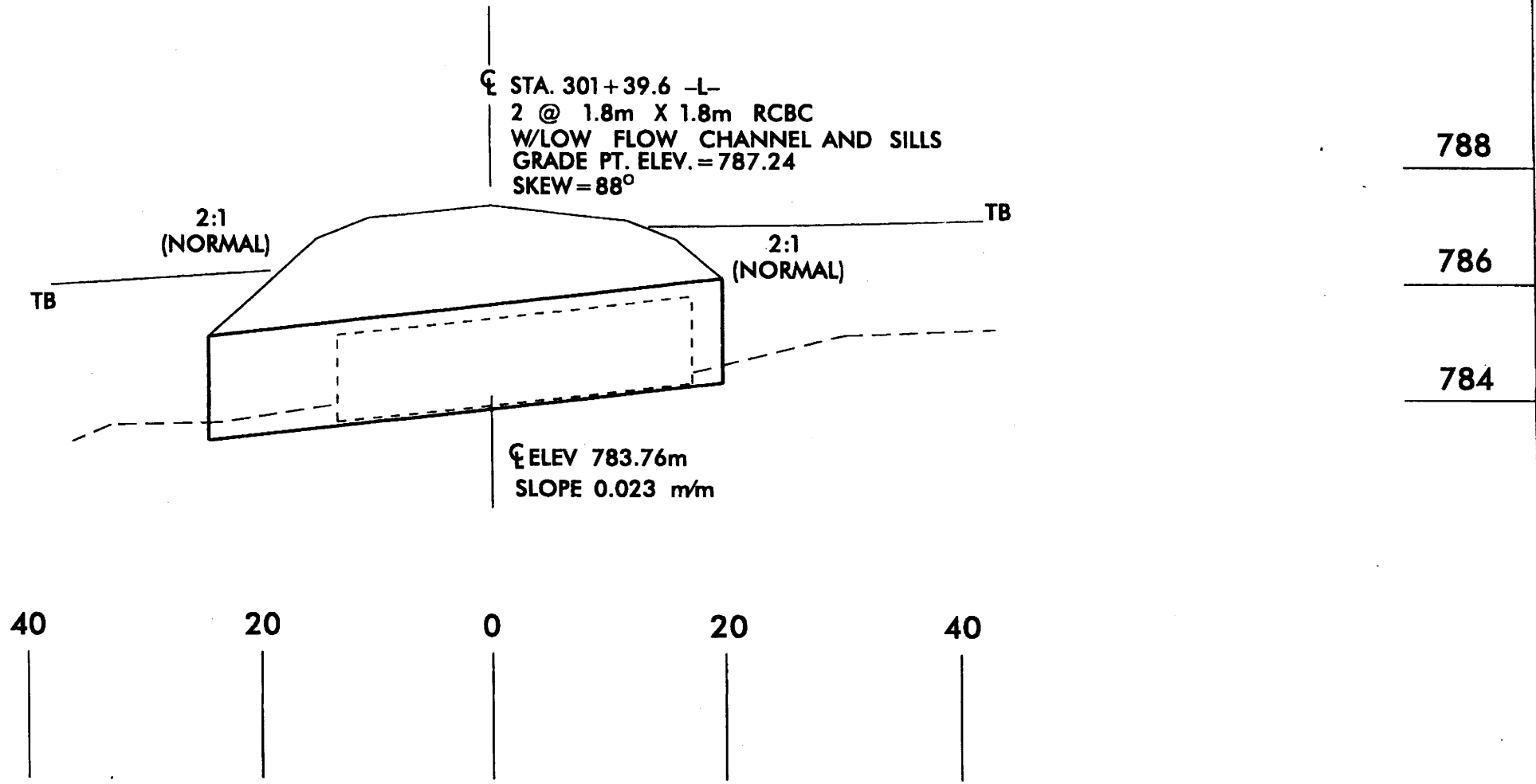
Permit Drawing
 Sheet 56 of 76



-L- STATION 300+91.7
 2 @ 3.05m X 2.74m RCBC

SITE 22
 PROFILE VIEW

NCDOT
 DIVISION OF HIGHWAYS
 YANCEY COUNTY
 PROJECT: WBS 35609.1.1 (R-2519A)
 US 19 E EAST OF
 SR 1336 (JACKS CREEK ROAD)
 TO SR 1186 (OLD US 19)
 10/25/06



-L- STATION 301+39.6
2 @ 1.8m X 1.8m RCBC

SITE 23
PROFILE VIEW

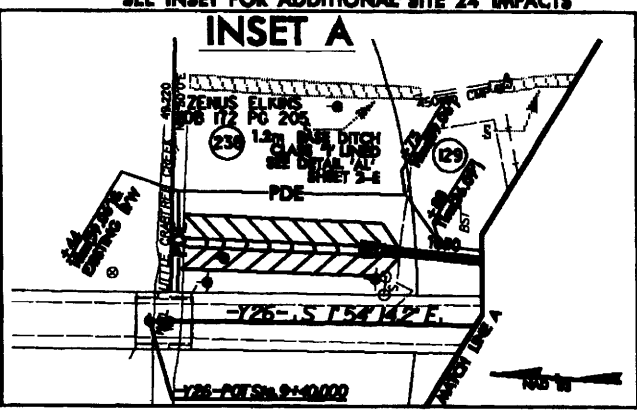
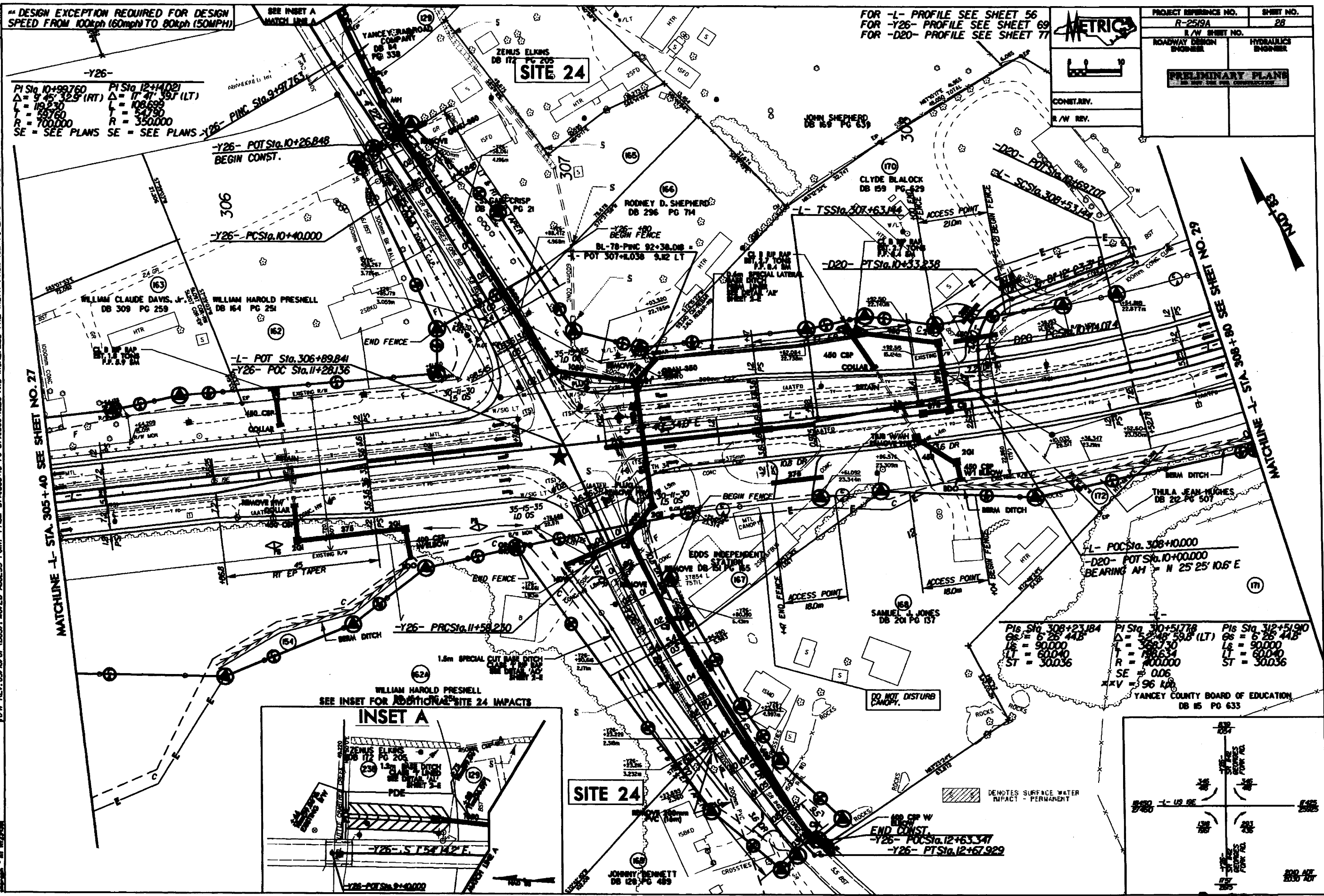
NCDOT
 DIVISION OF HIGHWAYS
 YANCEY COUNTY
 PROJECT: WBS 35609.1.1 (R-2519A)
 US 19 E EAST OF
 SR 1336 (JACKS CREEK ROAD)
 TO SR 1186 (OLD US 19)
 10/25/06

DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED FROM 100kph (160MPH) TO 80kph (130MPH)

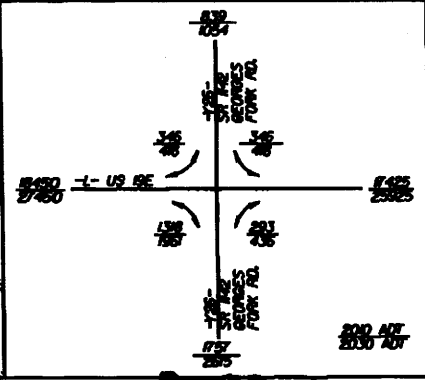
FOR -L- PROFILE SEE SHEET 56
FOR -Y26- PROFILE SEE SHEET 69
FOR -D20- PROFILE SEE SHEET 77

PROJECT REFERENCE NO. R-2519A		SHEET NO. 28	
L/W SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS			
CONSTR. REV.		R/W REV.	

R/W REV. 11/18/05 (TMM), ADDED DRIVEWAY -D20- AND REVISED CONSTRUCTION EASEMENT AND ACCESS POINT FOR PARCEL 170 + REVISED EXISTING R/W TO NUMERICAL OFFSET.
 ADDED PDE TO PARCEL 171.
 R/W REV. 2/27/06 (TMM), ADDED PDE TO PARCELS 165, 237, AND 238.
 R/W REV. 10/30/06 (TMM), CHANGED PARCEL NO. 237 TO PARCEL NO. 125, REVISED AND INCREASED THE SIZE OF THE DRIVEWAY ON PARCEL 127.
 R/W REV. 05/16/07 (TMM), MOVED ACCESS POINT FROM STA. 308+40 TO STA. 308+45 AND INCREASED THE WIDTH FROM 18M TO 21M ON PARCEL 170.



SITE 24

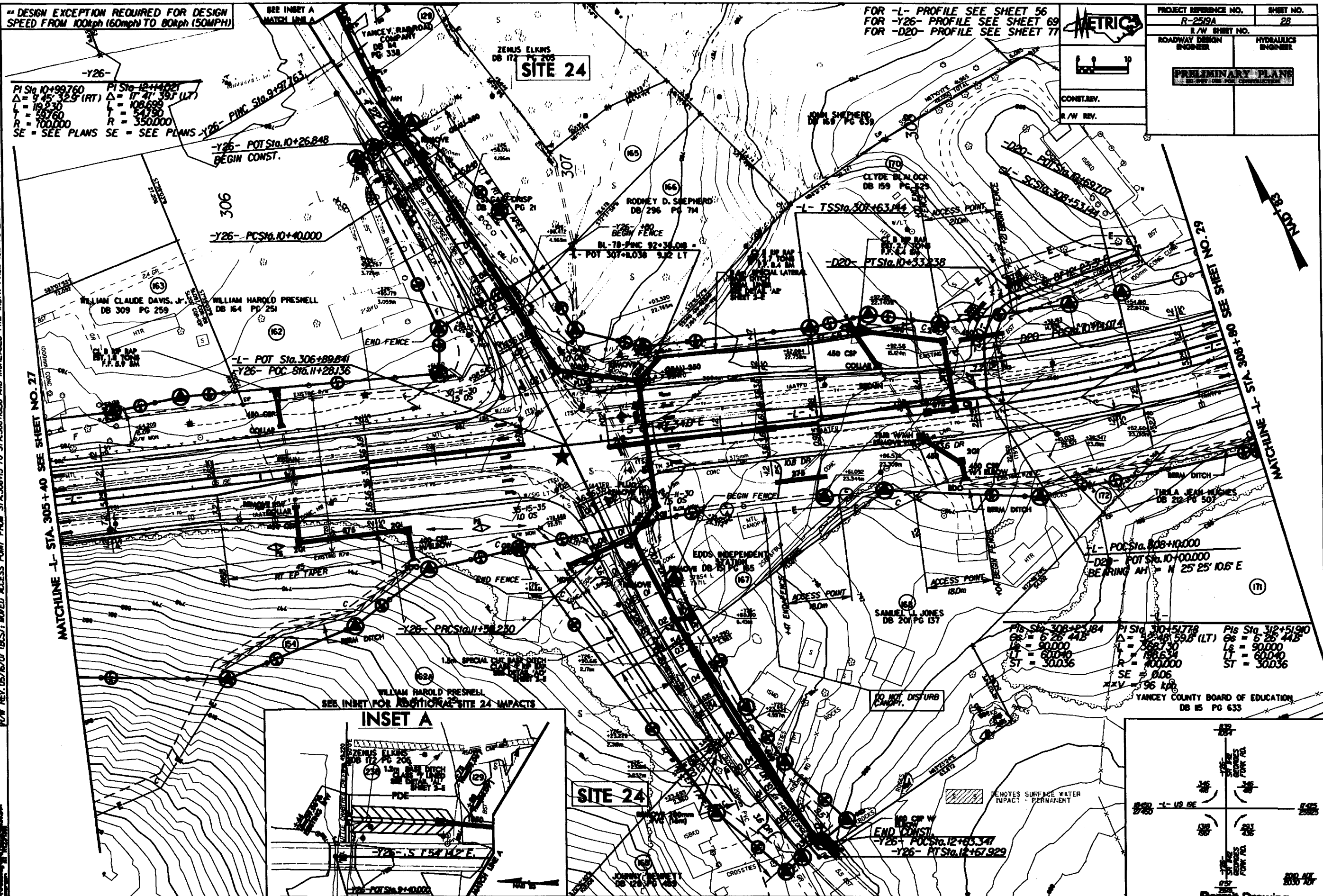


DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED FROM 100kph (60mph) TO 80kph (50MPH)

FOR -L- PROFILE SEE SHEET 56
FOR -Y26- PROFILE SEE SHEET 69
FOR -D20- PROFILE SEE SHEET 77

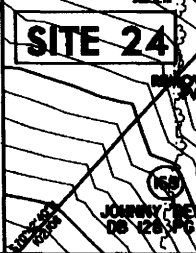
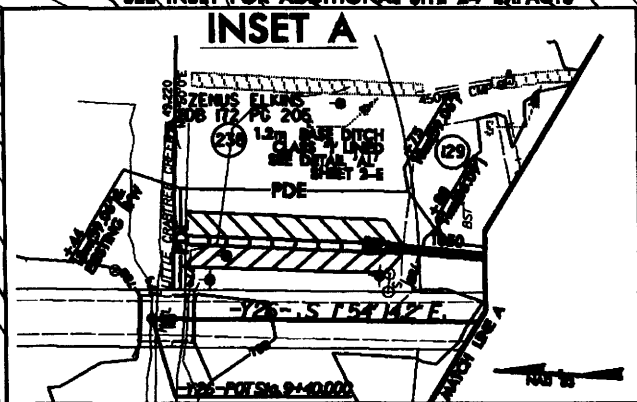
PROJECT REFERENCE NO. R-259A		SHEET NO. 28
ROADWAY DESIGN NUMBER		HYDRAULICS ENGINEER
PRELIMINARY PLANS		
CONST. REV.		
R/W REV.		

REVISIONS
 R/W REV. 11/18/05 (UWV); ADDED DRIVEWAY -D20- AND REVISED CONSTRUCTION EASEMENT AND ACCESS POINT FOR PARCEL 170 + REVISED EXIST. R/W TO NUMERICAL OFFSET.
 ADDED PDE TO PARCEL 171.
 R/W REV. 2/27/06 (UWV); ADDED PDE TO PARCELS 165, 237, AND 238.
 R/W REV. 10/30/06 (UWV); CHANGED PARCEL NO. 237 TO PARCEL NO. 125.
 R/W REV. 05/16/07 (BCS); MOVED ACCESS POINT FROM STA. 308+45 TO STA. 308+40 AND INCREASED THE WIDTH FROM 10M TO 20M ON PARCEL 170.

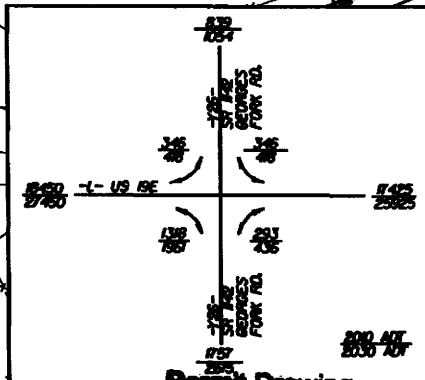


MATCHLINE L- STA. 305+40 SEE SHEET NO. 27

MATCHLINE L- STA. 308+80 SEE SHEET NO. 29



PIs Sta. 308+8184 Δ = 6° 25' 44" (LT) L = 90.000 T = 60.040 ST = 30.036	PIs Sta. 310+5178 Δ = 32° 46' 59" (LT) L = 368.730 T = 188.634 R = 100.000 SE = 0.06 X/V = 196.108	PIs Sta. 312+5190 Δ = 6° 25' 44" (LT) L = 90.000 T = 60.040 ST = 30.036
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DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED FROM 100 kph (60mph) TO 80 kph (50 mph)

-L-

PI Sta. 308+23.184	PI Sta. 310+51.778	PI Sta. 312+51.910
GS = 6.26 44.8'	Δ = 57.48 59.8' (LT)	GS = 6.26 44.8'
LS = 90.000	L = 368.730	LS = 90.000
LT = 60.040	T = 198.634	LT = 60.040
ST = 30.036	R = 400.000	ST = 30.036
	SE = 0.06	
	xxV = 96 kph	

-Y27-

PI Sta. 10+16.706	PI Sta. 10+52.266
Δ = 57.53 38.7' (RT)	Δ = 14.28 23.7' (RT)
L = 25.261	L = 47.995
T = 13.828	T = 24.126
R = 25.000	R = 190.000
SE = SEE PLANS	SE = SEE PLANS

METRIX

PROJECT REFERENCE NO. R-2519A SHEET NO. 29

R/W SHEET NO.

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

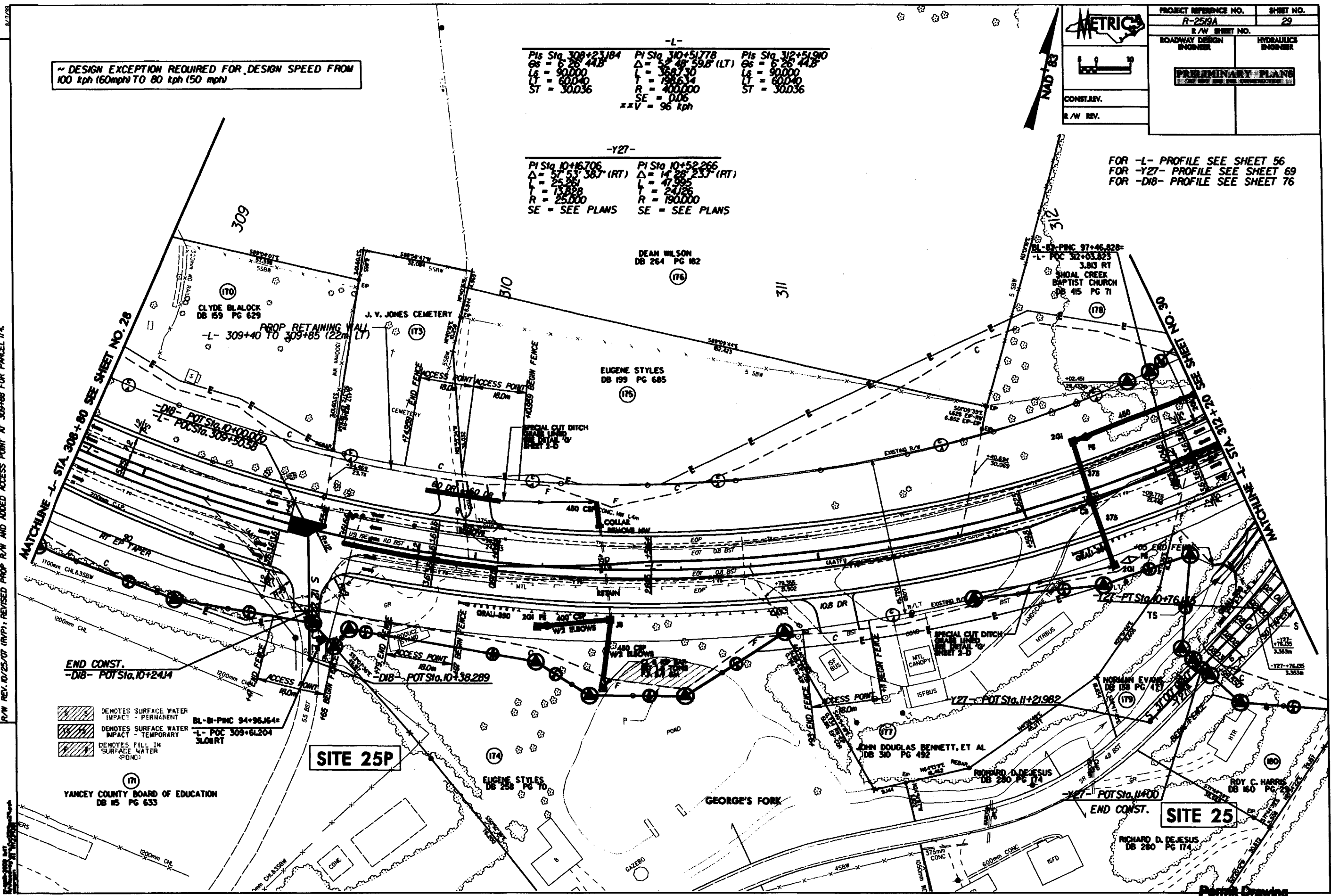
PRELIMINARY PLANS

CONST. REV.

R/W REV.

FOR -L- PROFILE SEE SHEET 56
 FOR -Y27- PROFILE SEE SHEET 69
 FOR -DIB- PROFILE SEE SHEET 76

REVISIONS
 1. REV. 11/18/05 (TMT): LEFTOVER ADDED FOR PARCEL 171 N STA 309+80 AND ADDED CONSTRUCTION EASEMENT + REVISED PROPERTY OWNER NAME AND DEED BOOK INFORMATION FOR PARCEL 178 + REVISED EXIST. R/W TO NUMERICAL OFFSET.
 2. REV. 05/16/07 (BES): REVISED PROPERTY OWNER NAME AND DEED BOOK INFORMATION FOR PARCEL 177.
 3. REV. 10/25/07 (RWP): REVISED PROP. R/W AND ADDED ACCESS POINT AT 309+88 FOR PARCEL 174.



- DENOTES SURFACE WATER IMPACT - PERMANENT
- DENOTES SURFACE WATER IMPACT - TEMPORARY
- DENOTES FILL IN SURFACE WATER (POND)

BL-M-PNC 94+96.64
 L- POC 309+61.204
 SLOMRT

SITE 25P

SITE 25

DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED FROM 100 kph (60mph) TO 80 kph (50 mph)

-L-
 PIS Sta. 308+21.84 G_e = 6.26 44.8
 L = 90.000
 T = 60.040
 H = 300.36
 ST = 300.36
 SE - SEE PLANS
 PIS Sta. 309+51.778 G_e = 6.26 39.0 (ILT)
 L = 78.730
 T = 40.000
 H = 250.00
 SE = 0.05
 **V = 96 kph
 PIS Sta. 310+51.810 G_e = 6.26 44.8
 L = 90.000
 T = 60.040
 H = 300.36
 ST = 300.36
 SE - SEE PLANS

-Y27-
 PIS Sta. 10+16.706 G_e = 5.75 38.7 (RT)
 L = 25.361
 T = 13.288
 H = 25.000
 SE - SEE PLANS
 PIS Sta. 10+52.656 G_e = 14.28 23.7 (RT)
 L = 47.985
 T = 22.788
 H = 19.000
 SE - SEE PLANS

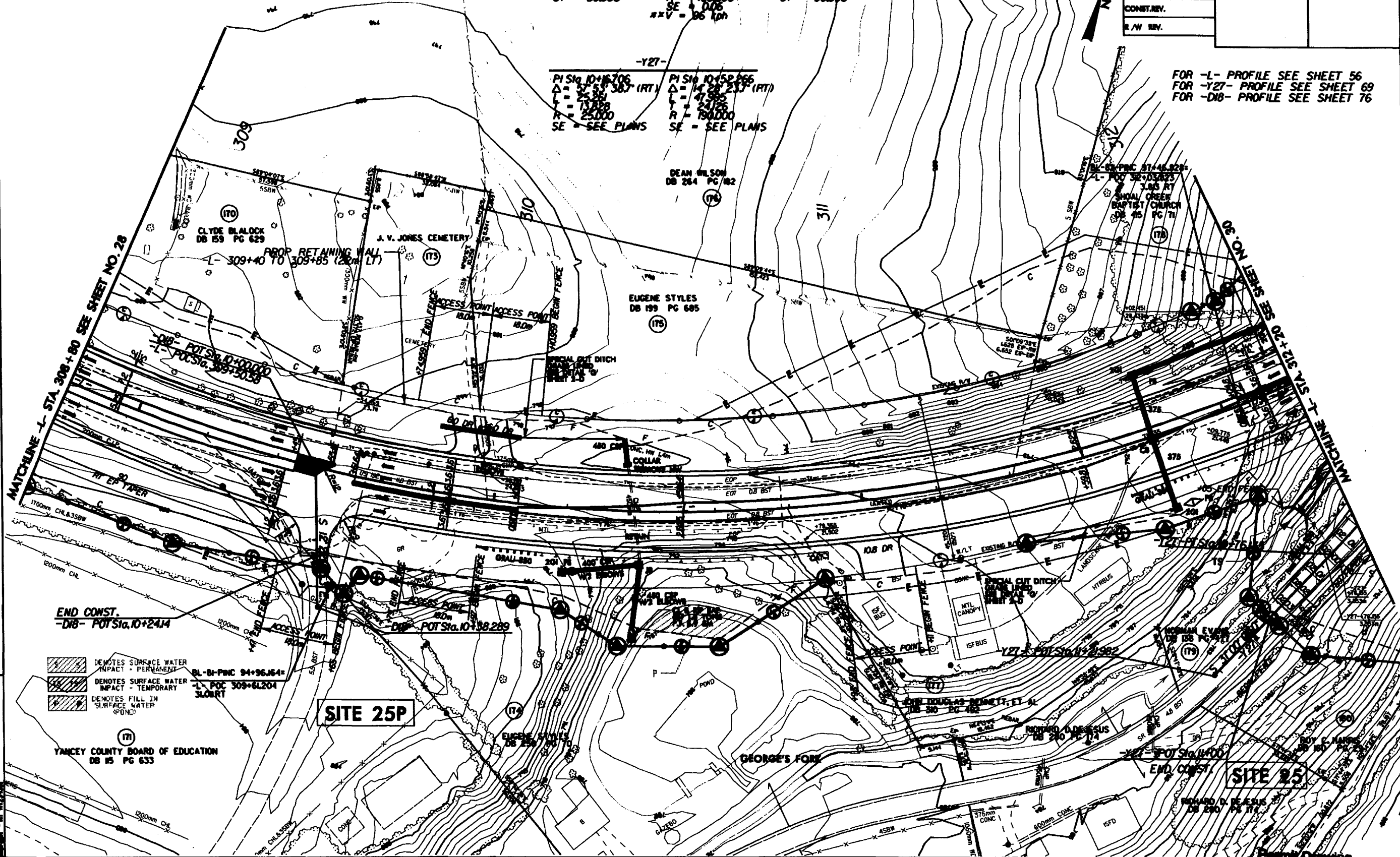


CONST. REV.
 R/W REV.

PROJECT REFERENCE NO. R-259A	SHEET NO. 29
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS	

FOR -L- PROFILE SEE SHEET 56
 FOR -Y27- PROFILE SEE SHEET 69
 FOR -DIB- PROFILE SEE SHEET 76

R/W REV. 10/25/07 (R/WP); REVISED PROP. ROW AND ADDED ACCESS POINT AT 309+88 FOR PARCEL 17A.
 R/W REV. 05/10/07 (BCS); REVISED PROPERTY OWNER NAME AND DEED BOOK INFORMATION FOR PARCEL 17A.
 R/W REV. 10/25/07 (R/WP); REVISED PROP. ROW AND ADDED ACCESS POINT AT 309+88 FOR PARCEL 17A.
 R/W REV. 10/25/07 (R/WP); REVISED PROP. ROW AND ADDED ACCESS POINT AT 309+88 FOR PARCEL 17A.



END CONST.
 -DIB- POT Sta. 10+24.14

- DENOTES SURFACE WATER IMPACT - PERMANENT
- DENOTES SURFACE WATER IMPACT - TEMPORARY
- DENOTES FILL IN SURFACE WATER (POND)

SITE 25P

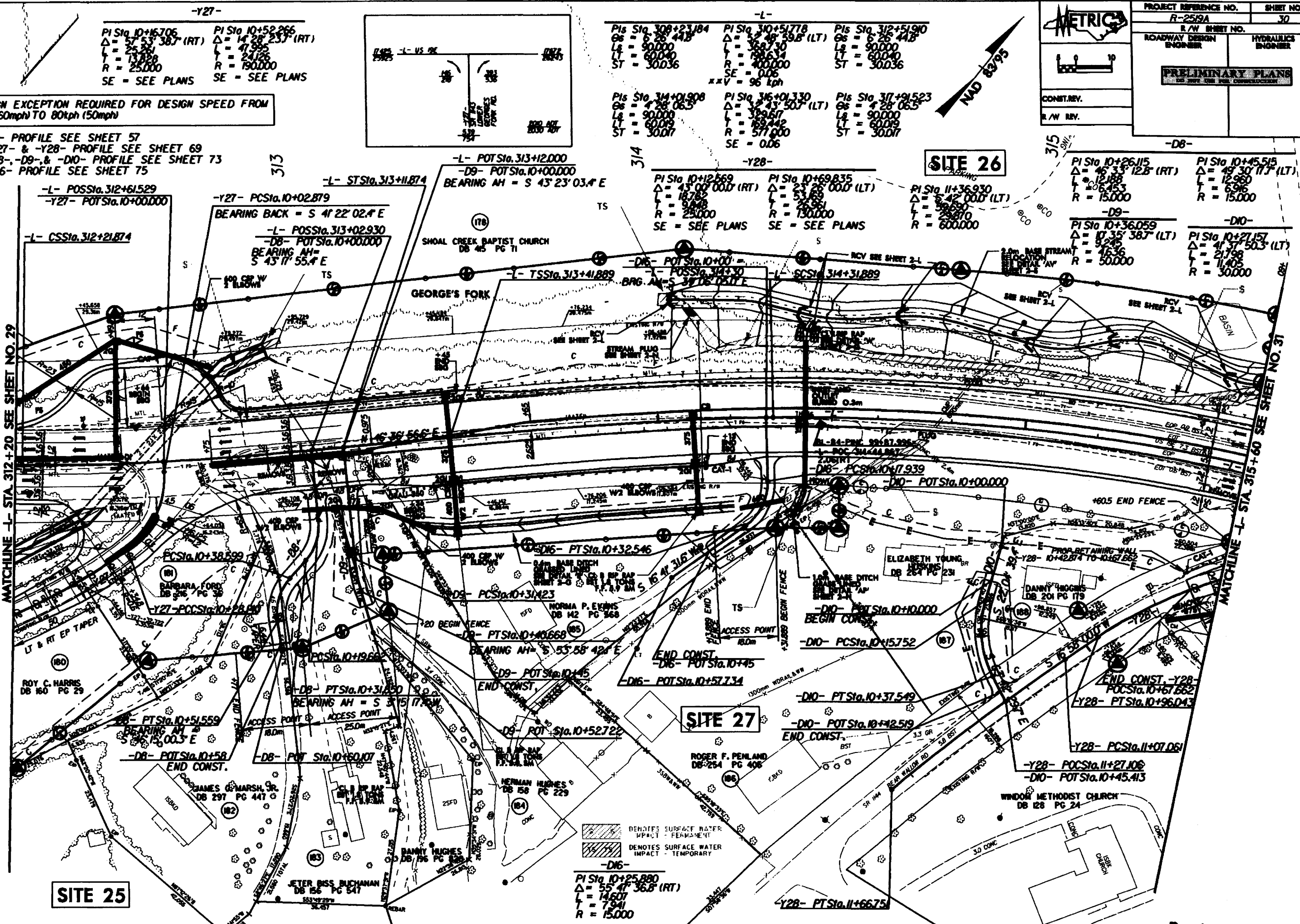
SITE 25

PROJECT REFERENCE NO. R-259A		SHEET NO. 30	
ROADWAY DESIGN ENGINEER			
HYDRAULICS ENGINEER			
PRELIMINARY PLANS			
CONSTR. REV.			
R/W REV.			

DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED FROM 100kph (60mph) TO 80kph (50mph)

FOR -L- PROFILE SEE SHEET 57
 FOR -Y27- & -Y28- PROFILE SEE SHEET 69
 FOR -D8-, -D9-, & -D10- PROFILE SEE SHEET 73
 FOR -D16- PROFILE SEE SHEET 75

R/W REV. 11/18/05 (TMM), REVISED PROPERTY OWNER NAME & DEED BOOK INFORMATION FOR PARCEL 18; REVISED EXIST. R/W TO NUMERICAL OFFSET.
 R/W REV. 01/30/06 (KMM), ADDED EASEMENT ON PARCEL NOS. 185 & 186.
 R/W REV. 8/10/06 (TMM), INCREASED SIZE OF 3.6M DRIVE TO 4.8M ON PARCEL 14.



-Y27-
 PI Sta. 10+16706
 $\Delta = 57^{\circ} 53' 38.7$ (RT)
 L = 25.281
 T = 13.828
 R = 25.000
 SE = SEE PLANS

PI Sta. 10+52266
 $\Delta = 14^{\circ} 28' 23.7$ (RT)
 L = 41.995
 T = 24.126
 R = 190.000
 SE = SEE PLANS

-L-
 PI Sta. 308+23184
 $\Delta = 8^{\circ} 26' 44.8$
 L = 90.000
 T = 60.040
 ST = 300.36

PI Sta. 310+51778
 $\Delta = 36^{\circ} 46' 59.8$ (LT)
 L = 368.730
 T = 198.634
 R = 400.000
 SE = 0.06
 x.v = 96 kph

PI Sta. 312+51910
 $\Delta = 8^{\circ} 26' 44.8$
 L = 90.000
 T = 60.040
 ST = 300.36

SITE 26

-L- POSSta. 312+61529
-Y27- POTSta. 10+00.000

-Y27- PCSta. 10+02.879
 BEARING BACK = S 41' 22" 02.4" E

-L- POSSta. 313+02.930
-D8- POTSta. 10+00.000
 BEARING AH = S 43' 17" 55.4" E

-L- POTSta. 313+12.000
-D9- POTSta. 10+00.000
 BEARING AH = S 43' 23" 03.4" E

-Y28-
 PI Sta. 10+12.669
 $\Delta = 43^{\circ} 00' 00.0$ (RT)
 L = 18.782
 T = 9.848
 R = 25.000
 SE = SEE PLANS

PI Sta. 10+69.835
 $\Delta = 23^{\circ} 26' 00.0$ (LT)
 L = 53.669
 T = 26.961
 R = 130.000
 SE = SEE PLANS

-D8-
 PI Sta. 10+26.115
 $\Delta = 46^{\circ} 33' 12.8$ (RT)
 L = 12.888
 T = 6.453
 R = 15.000

PI Sta. 10+45.515
 $\Delta = 49^{\circ} 30' 17.7$ (LT)
 L = 12.960
 T = 6.960
 R = 15.000

-D9-
 PI Sta. 10+36.059
 $\Delta = 17^{\circ} 35' 38.7$ (LT)
 L = 94.476
 T = 46.36
 R = 50.000

-D10-
 PI Sta. 10+27.157
 $\Delta = 41^{\circ} 37' 50.3$ (LT)
 L = 21.798
 T = 11.405
 R = 30.000

SITE 25

SITE 27

-D16-
 PI Sta. 10+25.880
 $\Delta = 55^{\circ} 47' 36.8$ (RT)
 L = 14.607
 T = 7.941
 R = 15.000

PROJECT REFERENCE NO.	SHEET NO.
R-259A	30
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS	
<small>DO NOT USE FOR CONSTRUCTION</small>	
CONST. REV.	
R/W REV.	



SITE 26

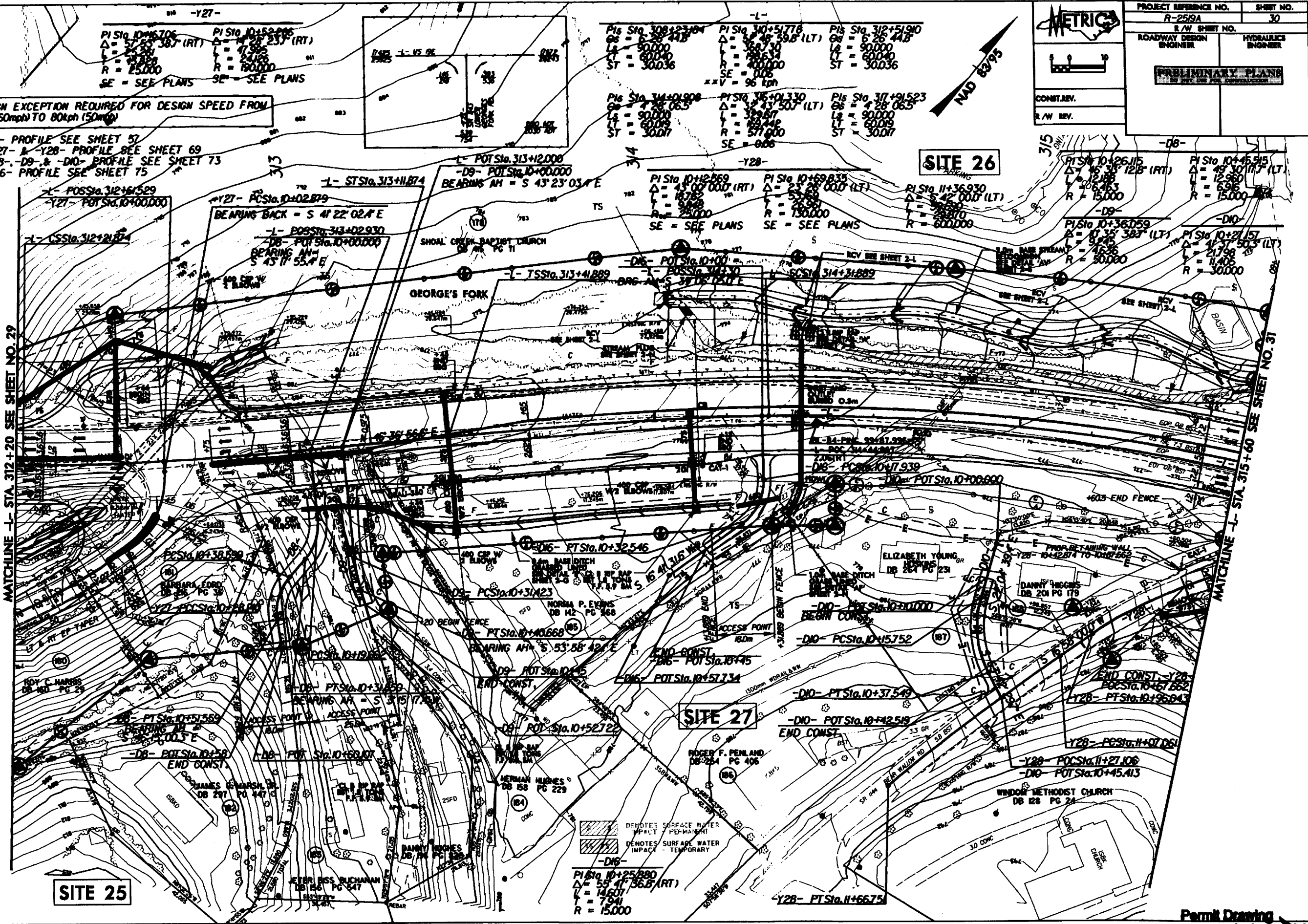
SITE 27

SITE 25

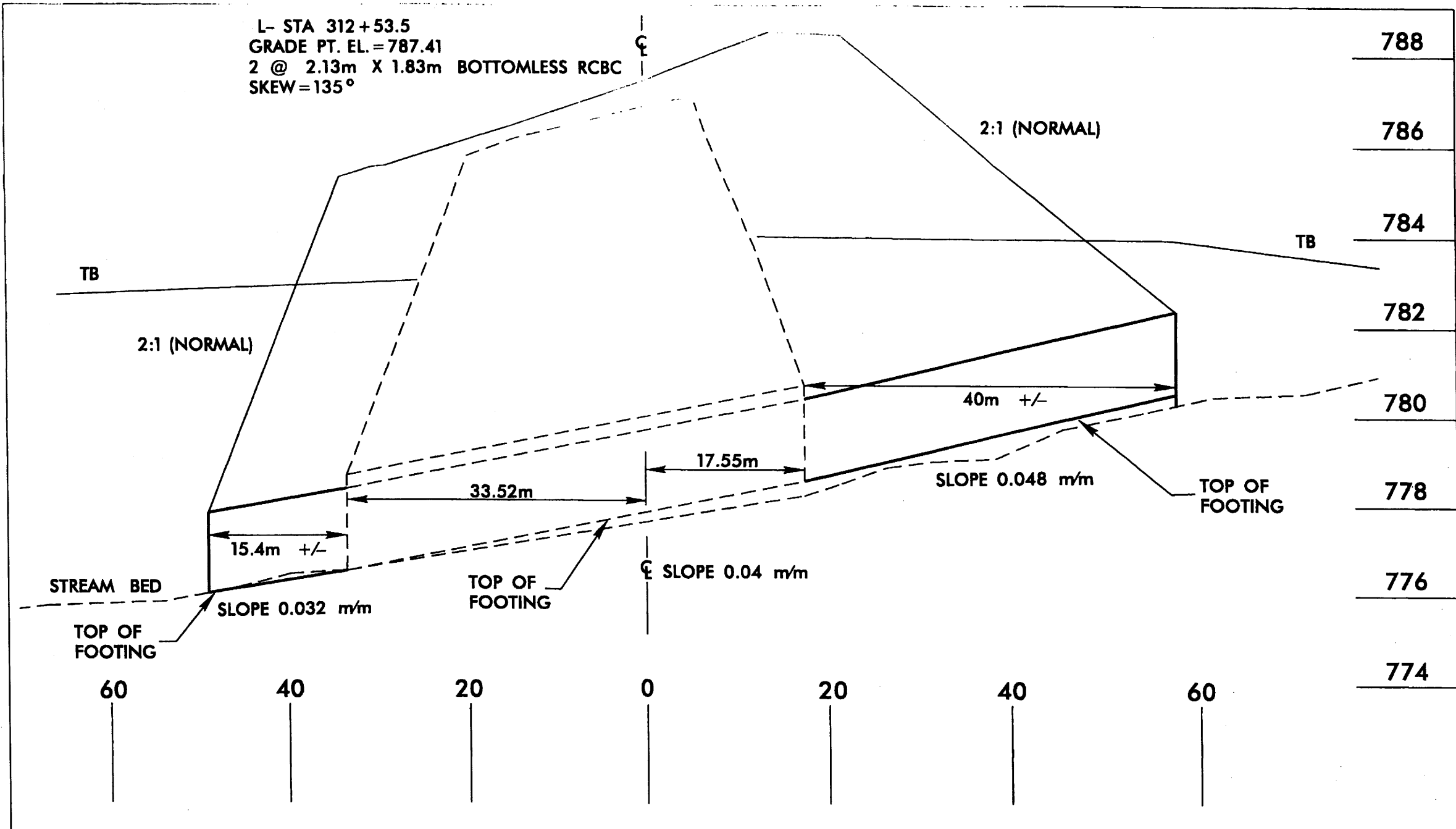
DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED FROM 100kph (60mph) TO 80kph (50mph)

FOR -L- PROFILE SEE SHEET 57
 FOR -Y27- & -Y28- PROFILE SEE SHEET 69
 FOR -DB-, -D9-, & -D10- PROFILE SEE SHEET 73
 FOR -D16- PROFILE SEE SHEET 75

R/W REV. 11/18/05 (TMM); REVISED PROPERTY OWNER NAME & DEED BOOK INFORMATION FOR PARCEL 178 - REVISED EXIST. R/W TO NUMERICAL OFFSET.
 R/W REV. 01/30/06 (KMM); ADDED EASEMENT ON PARCEL NOS. 185 & 186.
 R/W REV. 8/10/06 (TMM); INCREASED SIZE OF 3.6M DRIVE TO 4.8M ON PARCEL 184.



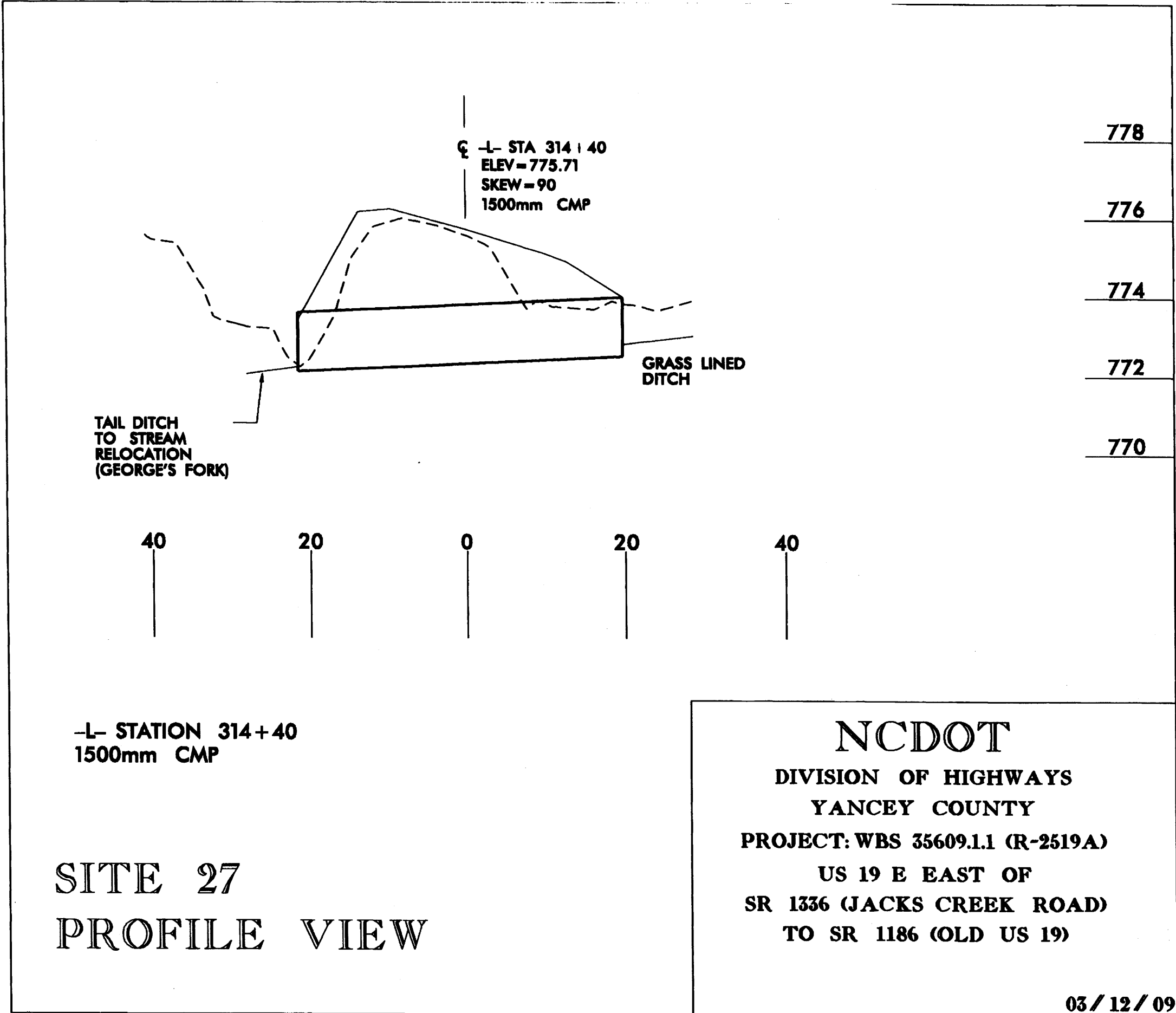
DENOTES SURFACE WATER PERMANENT
 DENOTES SURFACE WATER IMPACT TEMPORARY
 -D16-
 PI Sta 10+25.880
 Δ = 53° 47' 36.8" (RT)
 L = 146.07
 T = 7.941
 R = 15,000



-L- STATION 312+53.5
 2 @ 2.13m X 1.83m BOTTOMLESS RCBC

SITE 25
 PROFILE VIEW

NCDOT
 DIVISION OF HIGHWAYS
 YANCEY COUNTY
 PROJECT: WBS 35609.1.1 (R-2519A)
 US 19 E EAST OF
 SR 1336 (JACKS CREEK ROAD)
 TO SR 1186 (OLD US 19)
 10/25/06



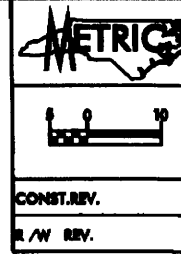
-L- STATION 314+40
1500mm CMP

SITE 27
PROFILE VIEW

NCDOT
 DIVISION OF HIGHWAYS
 YANCEY COUNTY
 PROJECT: WBS 35609.1.1 (R-2519A)
 US 19 E EAST OF
 SR 1336 (JACKS CREEK ROAD)
 TO SR 1186 (OLD US 19)

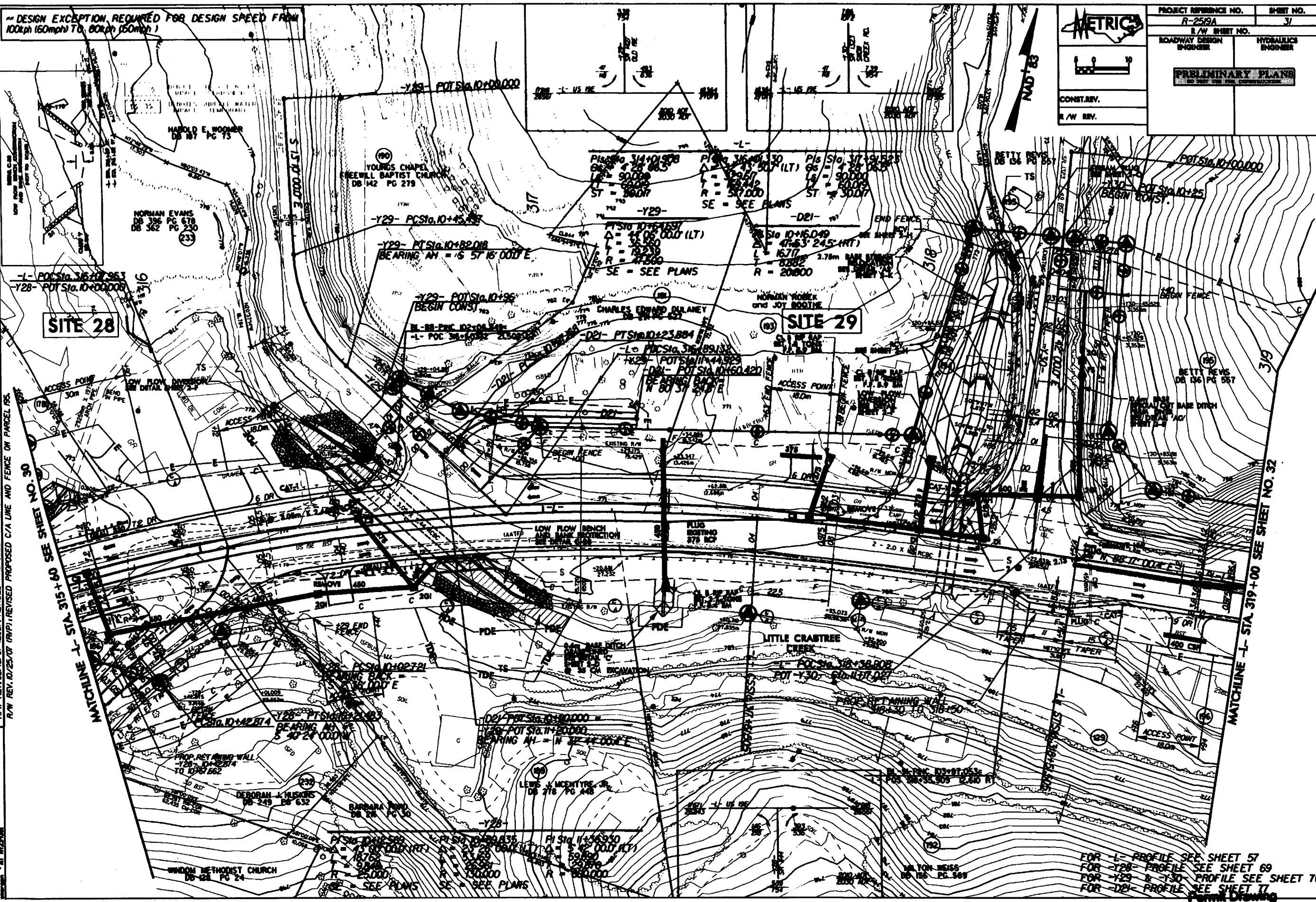
03 / 12 / 09

DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED FROM 100kph (60mph) TO 80kph (50mph)



PROJECT REFERENCE NO. R-259A	SHEET NO. 31
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS	
CONST. REV.	
R/W REV.	

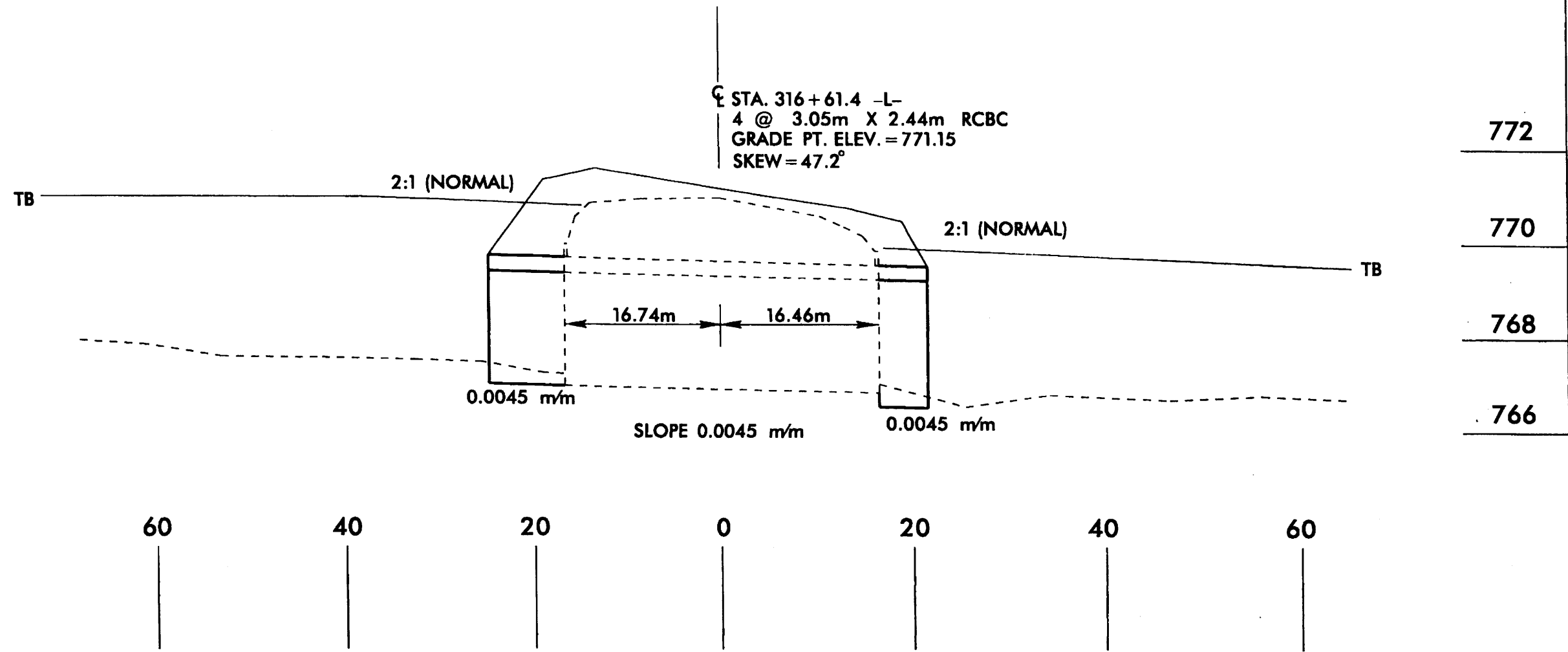
R/W REV. 11/18/05 (T.M.T.), CHANGED PARCEL NUMBER 188 (NORMAN EVANS) TO PARCEL 233 AND DEED BOOK INFORMATION FOR PARCEL 183
 ADDED DRIVEWAY -D21- AND CONSTRUCTION EASEMENT TO PARCEL 233 AND DEED BOOK INFORMATION FOR PARCEL 183
 REVISED EAST R/W TO INTERSECTION OF ST. 315 AND ST. 316 AND CONSTRUCTION EASEMENT ON PARCELS 178 & 233
 R/W REV. 10/30/06 (J.M.H.) ADDED DRIVEWAY -D21- TO ST. 315 AND REVISED PROPOSED R/W AND CONSTRUCTION EASEMENT ON PARCELS 178 & 233
 R/W REV. 05/18/07 (B.S.J.) REVISED PROPOSED R/W AND ADDED CONSTRUCTION EASEMENT ON PARCEL 178
 R/W REV. 02/25/07 (R.V.P.) REVISED PROPOSED C/A LINE AND FENCE ON PARCEL 156



MATCHLINE -L- STA. 315+60 SEE SHEET NO. 30

MATCHLINE -L- STA. 319+00 SEE SHEET NO. 32

FOR -L- PROFILE SEE SHEET 57
 FOR -Y28- PROFILE SEE SHEET 69
 FOR -Y29 & -Y30- PROFILE SEE SHEET 70
 FOR -D21- PROFILE SEE SHEET 77

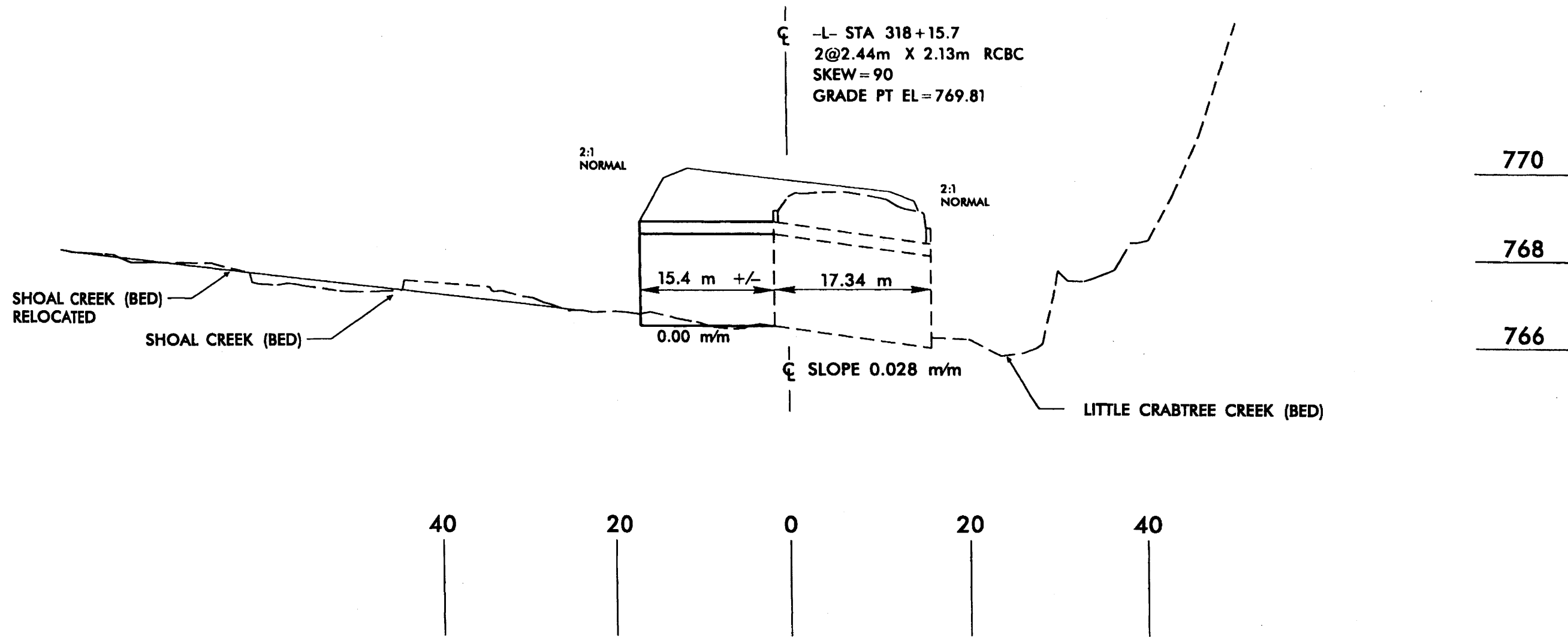


-L- STATION 316+61.4
 4 @ 3.05m X 2.44m RCBC

SITE 28
 PROFILE VIEW

NCDOT
 DIVISION OF HIGHWAYS
 YANCEY COUNTY
 PROJECT: WBS 35609.1.1 (R-2519A)
 US 19 E EAST OF
 SR 1336 (JACKS CREEK ROAD)
 TO SR 1186 (OLD US 19)

10/25/06



-L- STATION 318+15.7
2 @ 2.44m X 2.13m RCBC

SITE 29
PROFILE VIEW

NCDOT
DIVISION OF HIGHWAYS
YANCEY COUNTY
PROJECT: WBS 35609.1.1 (R-2519A)
US 19 E EAST OF
SR 1336 (JACKS CREEK ROAD)
TO SR 1186 (OLD US 19)

10/25/06

DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED FROM 100kph (60mph) TO 80kph (50mph)

METRIC

PROJECT REFERENCE NO. R-2519A SHEET NO. 32

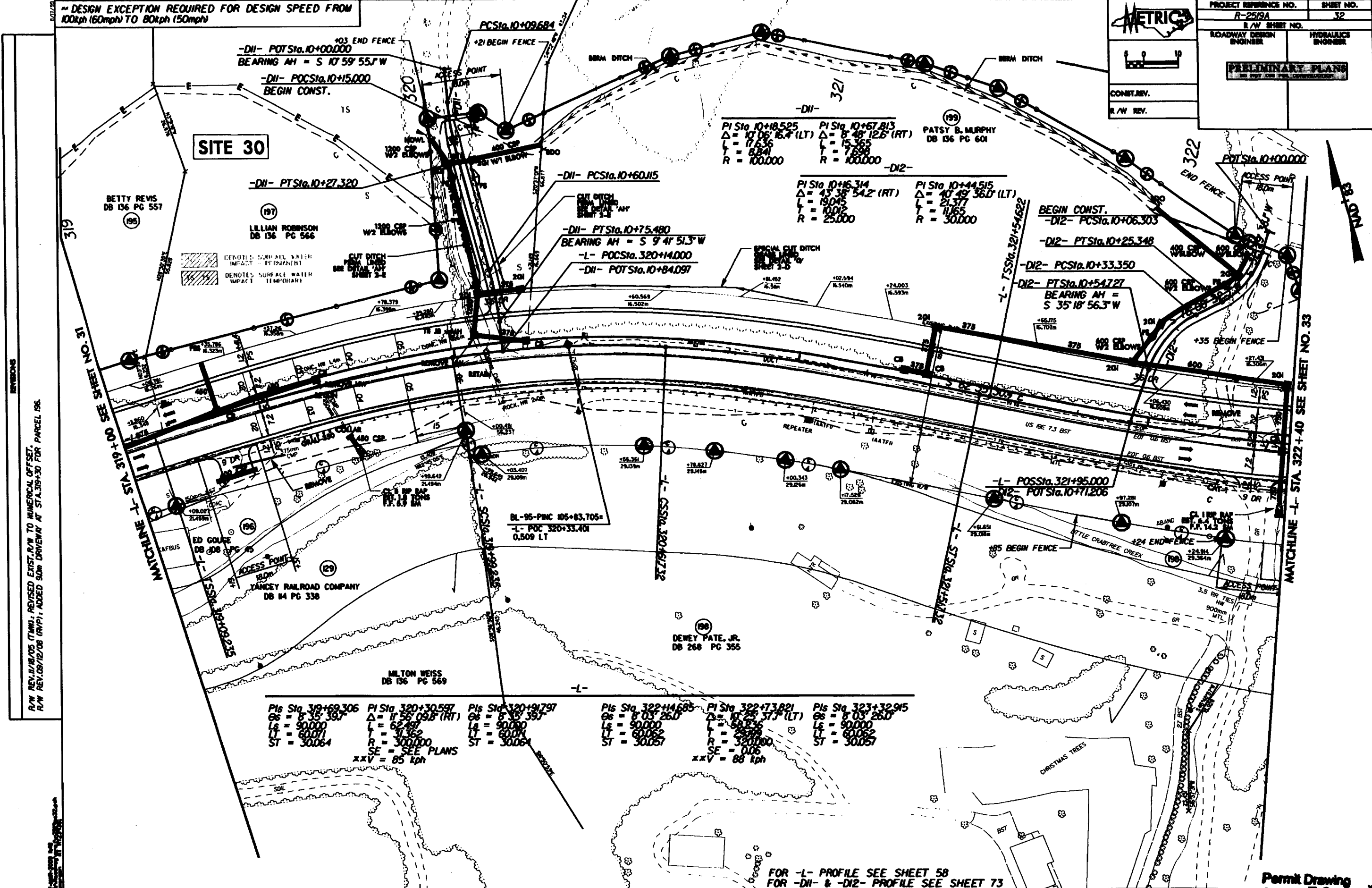
R/W SHEET NO.

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

PRELIMINARY PLANS

CONST. REV.

R/W REV.



SITE 30

DELETED SURFACE WATER IMPACT - PERMANENT
 DENOTES SURFACE WATER IMPACT - TEMPORARY

-D11- PTS10.10+27.320

-D11- PCS10.10+60.115

-D11- PTS10.10+75.480
 BEARING AH = S 9° 41' 51.3" W

-L- POC320.10+14.000

-D11- POT320.10+84.097

-D11-
 PI Sta 10+18.525 Δ = 107° 06' 16.4" (LT) L = 17.636 T = 8.841 R = 100.000
 PI Sta 10+67.813 Δ = 8° 48' 12.6" (RT) L = 15.365 T = 7.688 R = 100.000
 PATSY B. MURPHY DB 136 PG 601

-D12-
 PI Sta 10+16.314 Δ = 43° 38' 54.2" (RT) L = 19.045 T = 10.012 R = 25.000
 PI Sta 10+44.515 Δ = 40° 49' 36.0" (LT) L = 21.377 T = 11.665 R = 30.000

BEGIN CONST.
 -D12- PCS10.10+06.303

-D12- PTS10.10+25.348

-D12- PCS10.10+33.350

-D12- PTS10.10+54.727
 BEARING AH = S 35° 18' 56.3" W

BL-95-PNC 105+83.705
 -L- POC 320+33.401
 0.509 LT

PIs Sta 319+69.306 Δ = 8° 35' 39.7" L = 90.000 LT = 60.071 ST = 30.064
 PI Sta 320+30.597 Δ = 11° 56' 09.8" (RT) L = 62.497 T = 31.362 R = 300.000 SE = SEE PLANS xxv = 85 kph
 PIs Sta 320+19.797 Δ = 8° 35' 39.7" L = 90.000 LT = 60.071 ST = 30.064

PIs Sta 322+14.685 Δ = 8° 03' 26.0" L = 90.000 LT = 60.062 ST = 30.057
 PI Sta 322+73.821 Δ = 11° 25' 37.7" (LT) L = 58.236 T = 29.779 R = 320.000 SE = 0.06 xxv = 88 kph
 PIs Sta 323+32.915 Δ = 8° 03' 26.0" L = 90.000 LT = 60.062 ST = 30.057

FOR -L- PROFILE SEE SHEET 58
 FOR -D11- & -D12- PROFILE SEE SHEET 73

Permit Drawing
 Sheet 72 of 16

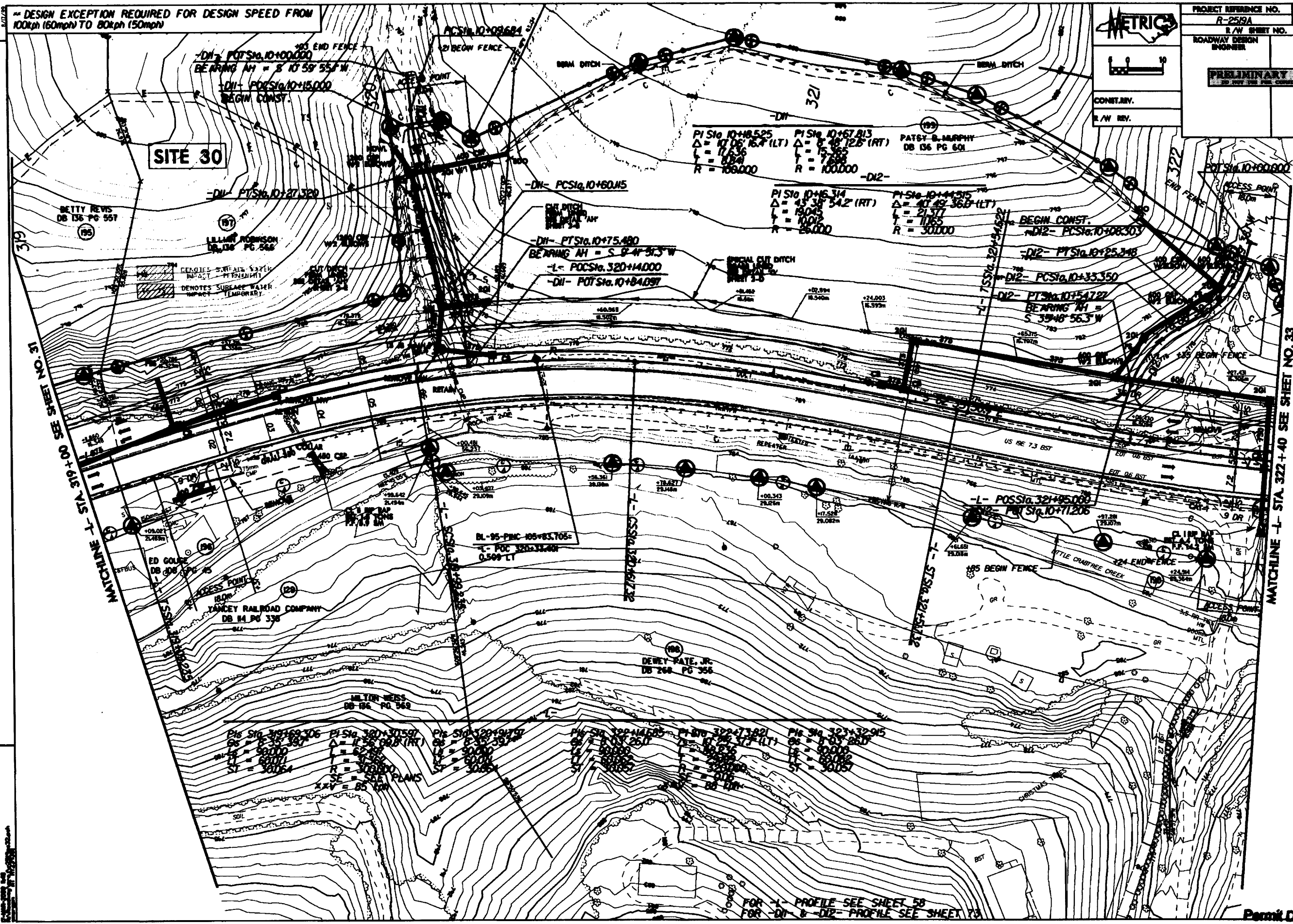
R/W REV. 11/18/05 (TMR); REVISED EXIST. R/W TO NUMERICAL OFFSET. R/W REV. 09/12/08 (R/P); ADDED 90M DRIVEWAY AT STA. 319+30 FOR PARCEL 196.

MATCHLINE -L- STA. 319+00 SEE SHEET NO. 31

MATCHLINE -L- STA. 322+40 SEE SHEET NO. 33

DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED FROM 100kph (60mph) TO 80kph (50mph)

PROJECT REFERENCE NO. R-2519A		SHEET NO. 32	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLAN			
CONST. REV.		R/W REV.	



R/W REV. 11/18/05 (TMM); REVISED EXIST. R/W TO NUMERICAL OFFSET. R/W REV. 09/12/08 (RVP); ADDED 90M DRIVEWAY AT STA. 319+50 FOR PARCEL 06.

MATCHLINE - STA. 319+00 SEE SHEET NO. 31

MATCHLINE - STA. 322+40 SEE SHEET NO. 33

FOR -L- PROFILE SEE SHEET 58
FOR -D1- & -D2- PROFILE SEE SHEET 73

DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED FROM 100kph (60mph) TO 80kph (50mph)

-D4REV-		-D4-	
PI Sta 11+00.718	PI Sta 11+46.038	PI Sta 11+91.265	
$\Delta = 20^{\circ} 57' 01.9" (LT)$	$\Delta = 10^{\circ} 28' 31.0" (RT)$	$\Delta = 52^{\circ} 57' 00.5" (LT)$	
L = 73.131	L = 18.283	L = 27.725	
T = 36.979	T = 9.167	T = 14.941	
R = 200.000	R = 100.000	R = 30.000	

-L-		-D3REV-		-D3-	
PIs Sta 322+14.685	PI Sta 322+73.821	PIs Sta 323+32.915	PI Sta 10+35.160	PI Sta 10+69.802	PI Sta 11+30.698
$\Delta = 8^{\circ} 03' 28.0"$	$\Delta = 10^{\circ} 25' 37.7" (LT)$	$\Delta = 8^{\circ} 03' 28.0"$	$\Delta = 69^{\circ} 48' 22.3" (RT)$	$\Delta = 7^{\circ} 53' 13.3" (LT)$	$\Delta = 65^{\circ} 31' 34.6" (LT)$
Ls = 90.000	L = 58.738	Ls = 90.000	L = 24.367	L = 6.888	L = 23.222
LT = 60.062	L = 58.738	LT = 60.062	T = 13.954	T = 3.449	T = 13.119
ST = 30.057	R = 320.000	ST = 30.057	R = 20.000	R = 50.000	R = 20.000
SE = SEE PLANS					
xxv = 88 kph					

-D3-	
PI Sta 10+39.779	PI Sta 11+33.250
$\Delta = 49^{\circ} 57' 38.4" (RT)$	$\Delta = 6^{\circ} 12' 06.9" (LT)$
L = 43.599	L = 22.411
T = 23.294	T = 12.546
R = 50.000	R = 20.000

METRIX

PROJECT REFERENCE NO. R-2519A SHEET NO. 33

R/W SHEET NO.

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

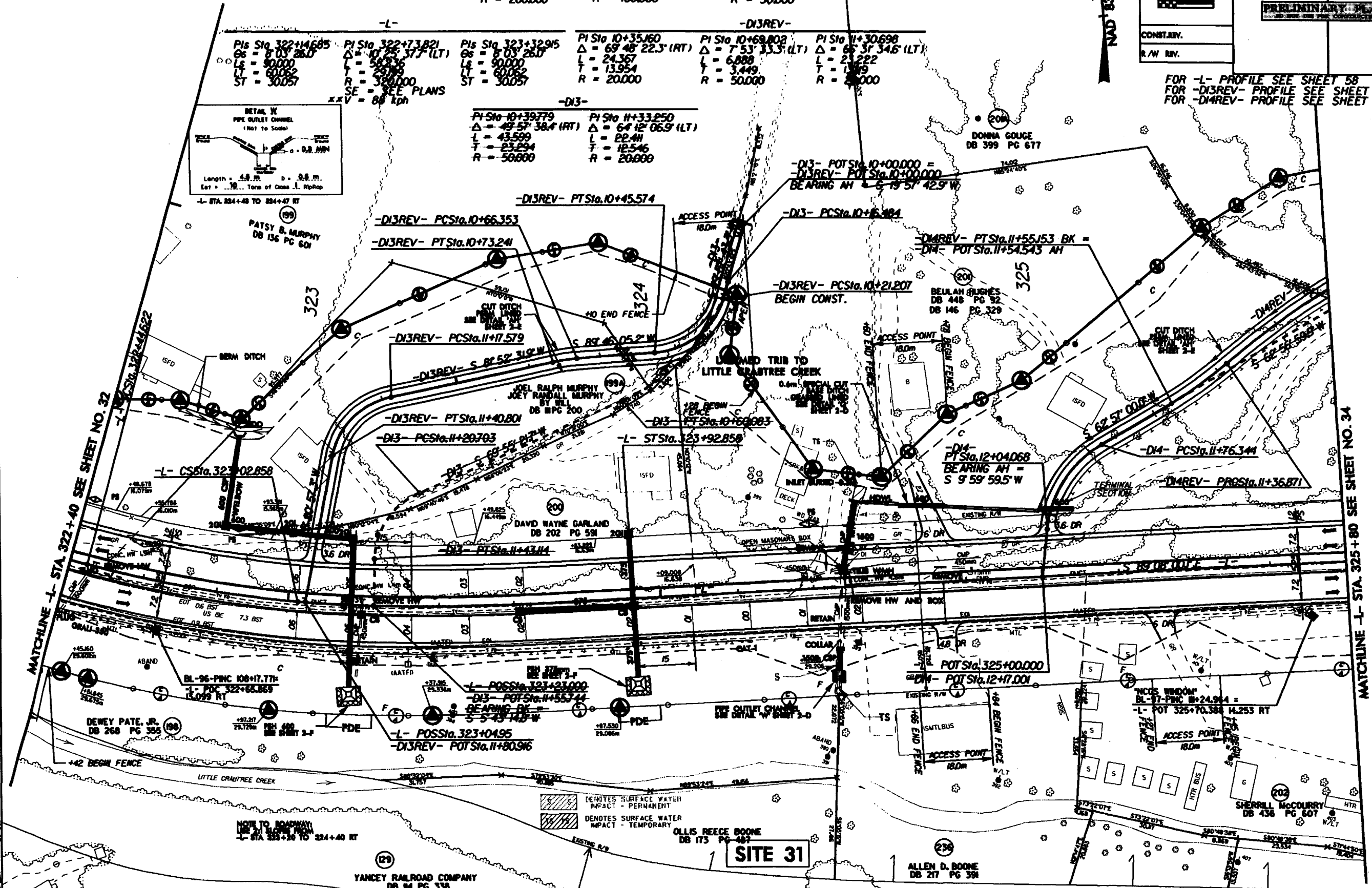
PRELIMINARY PLANS

CONST. BY.

R/W REV.

FOR -L- PROFILE SEE SHEET 58
 FOR -D3REV- PROFILE SEE SHEET 74
 FOR -D4REV- PROFILE SEE SHEET 75

R/W REV. 11/18/05 (TMM): ADDED PARCEL 199A, REVISED PROPOSED R/W ON PARCEL 199A AND 201, ADDED ACCESS POINT FOR PARCEL 236, REVISED DRIVEWAYS -D3- AND -D4- REVISED EXIST. R/W TO NUMERICAL OFFSET. INFORMATION ON PARCEL 20A, ADDED PARCEL 20A. R/W REV. 04/19/06 (TMM): MOVED DRIVEWAY FROM STA. 324+55 TO 324+75 ON PARCEL 236.



DENOTES SURFACE WATER IMPACT - PERMANENT
 DENOTES SURFACE WATER IMPACT - TEMPORARY

NOTE TO ROADWAY
 L- STA 323+30 TO 324+40 RT

SITE 31

DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED FROM 100kph (60mph) TO 80kph (50mph)

-D4REV-		-D4-	
PI Sta 11+00.718	PI Sta 11+45.038	PI Sta 11+91.285	
$\Delta = 20' 57" 01.9' (LT)$	$\Delta = 17' 28" 31.0' (RT)$	$\Delta = 52' 57" 00.5' (LT)$	
L = 73.31	L = 18.283	L = 27.725	
T = 36.979	T = 9.67	T = 14.941	
R = 200.000	R = 100.000	R = 30.000	

METRIC

PROJECT REFERENCE NO. R-2519A SHEET NO. 33

R/W SHEET NO.

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

PRELIMINARY PLANS

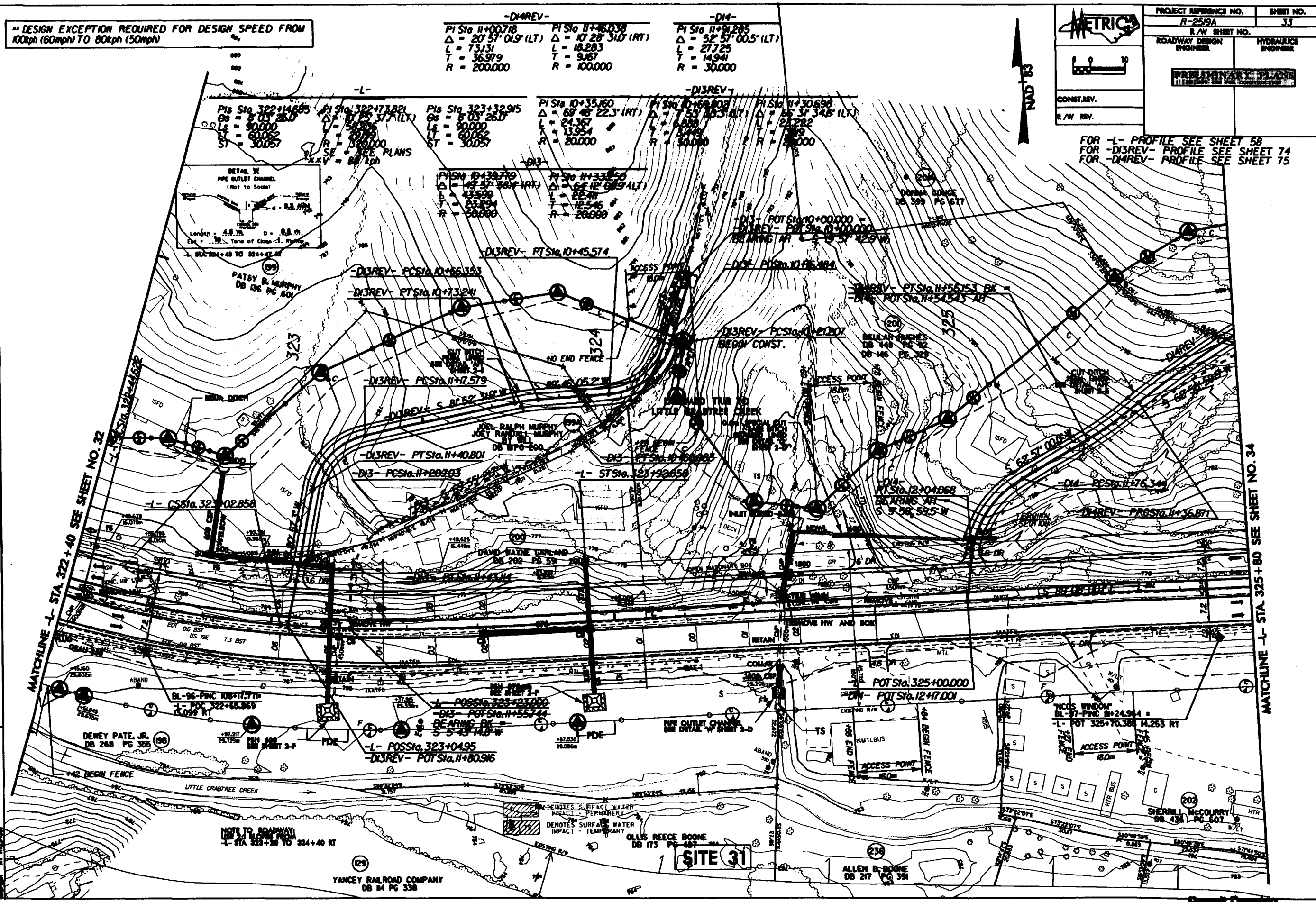
CONST. REV.

R/W REV.

FOR -L- PROFILE SEE SHEET 58
 FOR -D3REV- PROFILE SEE SHEET 74
 FOR -D4REV- PROFILE SEE SHEET 75

REVISIONS

R/W REV. 11/18/05 (TMM); ADDED PARCEL 199A, REVISED PROPOSED R/W ON PARCEL 199A AND 201; ADDED ACCESS POINT FOR PARCEL 236; REVISED DRIVEWAYS -D3- AND -D4-; REVISED EXIST. R/W TO NUMERICAL OFFSET. INFORMATION ON PARCEL 201, ADDED PARCEL 201A.



MATCHLINE -L- STA. 322+40 SEE SHEET NO. 32

MATCHLINE -L- STA. 325+80 SEE SHEET NO. 34

YANCEY RAILROAD COMPANY
 DB 14 PG 338

SITE 31

DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED FROM 100kph (60mph) TO 80kph (50mph)

METRIC

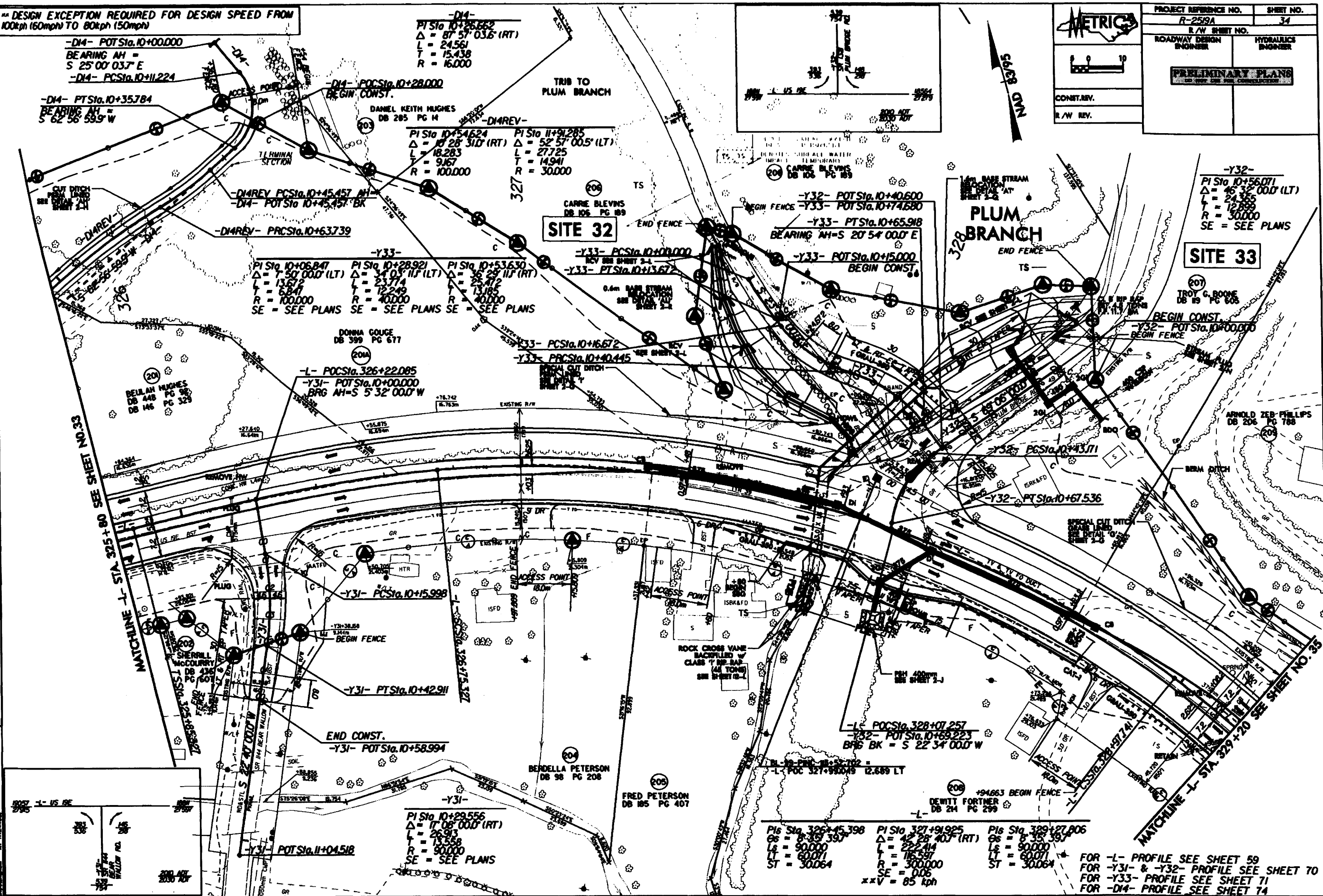
PROJECT REFERENCE NO. R-2519A SHEET NO. 34

R/W SHEET NO. ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

PRELIMINARY PLANS

CONST. REV. R/W REV.

R/W REV. 11/18/05 (T.M.W.): REVISED DRIVEWAY -D4- AND PROPOSED R/W ON PARCEL 201; REVISED EXIST. R/W TO NUMERICAL OFFSET. R/W REV. 2/27/06 (T.M.W.): REVISED PARCEL OWNER NAME AND DEED BOOK INFORMATION ON PARCEL 201, ADDED PARCEL 201A.



DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED FROM 100kph (60mph) TO 80kph (50mph)

METRIC

PROJECT REFERENCE NO. R-259A SHEET NO. 34

R/W SHEET NO.

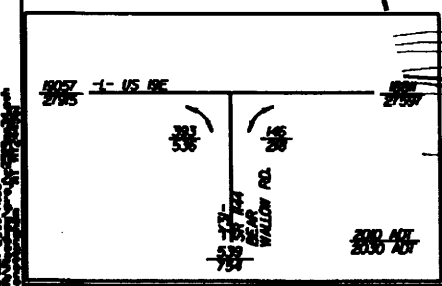
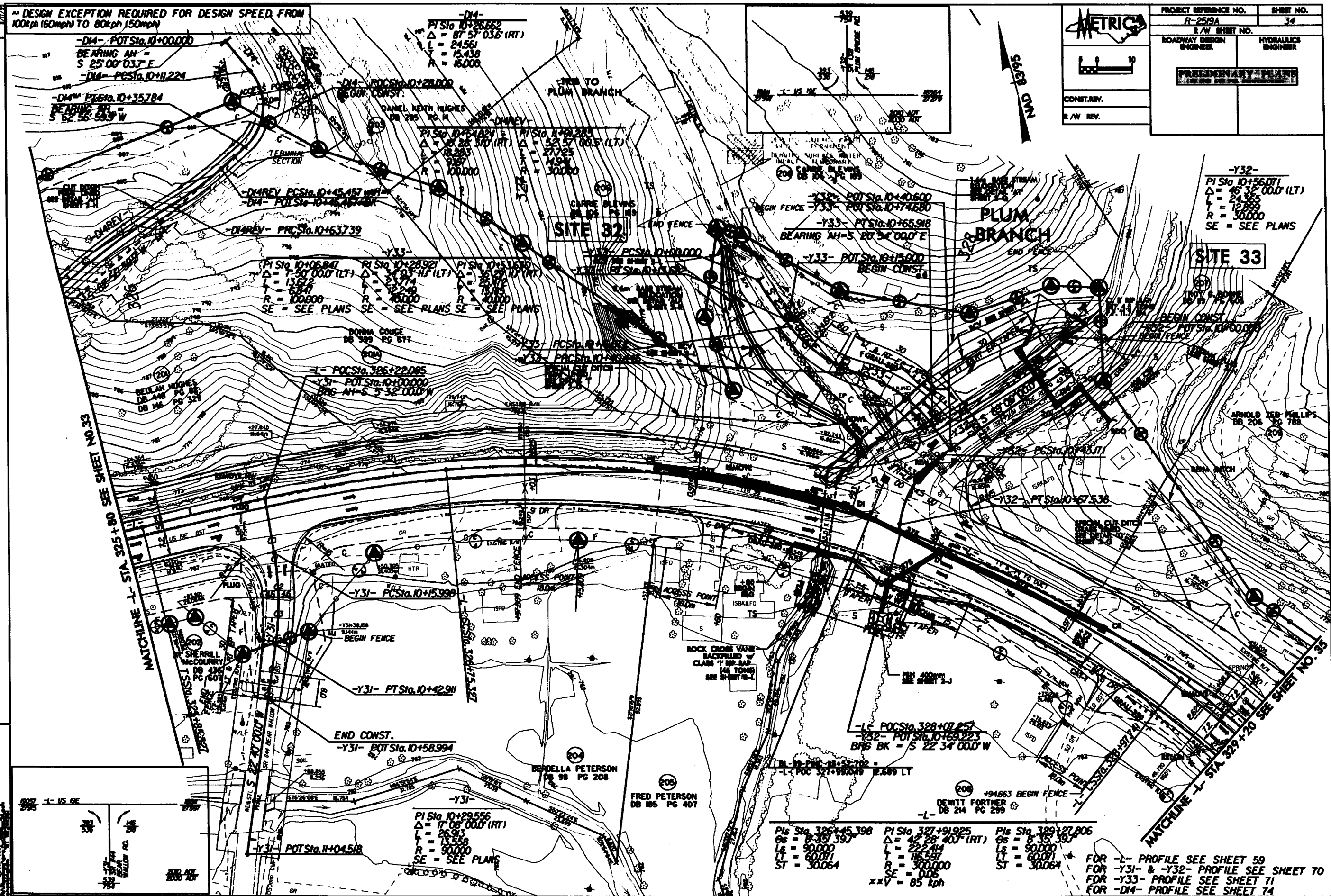
ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

PRELIMINARY PLANS

CONST. REV.

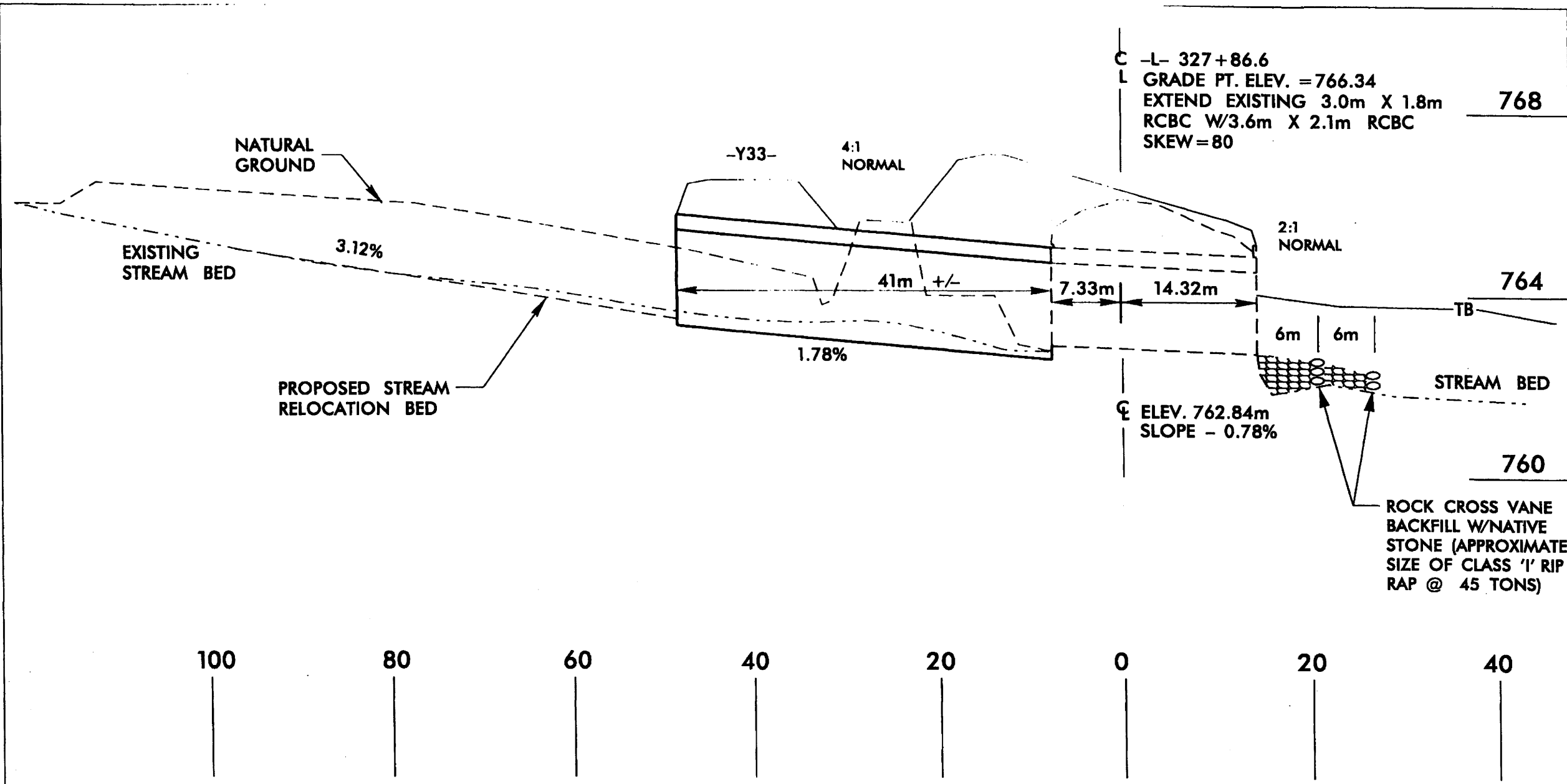
R/W REV.

REVISIONS
 R/W REV. 1/18/05 (T.M.W.); REVISED DRIVEWAY -D4- AND PROPOSED R/W ON PARCEL 204; REVISED EXIST. R/W TO NUMERICAL OFFSET.
 R/W REV. 2/27/06 (T.M.W.); REVISED PARCEL OWNER NAME AND DEED BOOK INFORMATION ON PARCEL 204 ADDED PARCEL 204.



PIs Sta. 326+45.398 Δ = 8° 35' 39" L = 90.000 LT = 60.071 ST = 30.064	PIs Sta. 327+91.925 Δ = 42° 28' 40" (RT) L = 222.414 LT = 116.597 R = 300.000 SE = 0.06 xxv = 85 kph	PIs Sta. 329+127.806 Δ = 8° 35' 39" L = 90.000 LT = 60.071 ST = 30.064
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FOR -L- PROFILE SEE SHEET 59
 FOR -Y31- & -Y32- PROFILE SEE SHEET 70
 FOR -Y33- PROFILE SEE SHEET 71
 FOR -D4- PROFILE SEE SHEET 74



C -L- 327+86.6
 L GRADE PT. ELEV. = 766.34
 EXTEND EXISTING 3.0m X 1.8m RCBC
 W/3.6m X 2.1m RCBC SKEW=80

-L- STATION 327+86.6
 EXTEND EXISTING 3.0m X 1.8m RCBC
 W/3.6m X 2.1m RCBC WITH BAFFLES
 AND LOW FLOW CHANNEL ON
 EXTENSION AND IN EXISTING CULVERT

SITE 33
 PROFILE VIEW

NCDOT
 DIVISION OF HIGHWAYS
 YANCEY COUNTY
 PROJECT: WBS 35609.1.1 (R-2519A)
 US 19 E EAST OF
 SR 1336 (JACKS CREEK ROAD)
 TO SR 1186 (OLD US 19)

10/25/06

DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED FROM 100kph (60mph) TO 80kph (50mph)

15 15
 15 15
 15 15

-L-
 PIS Sta 330+67.086
 Gs = 8'35"397
 Ls = 90.000
 Lt = 60.071
 ST = 30.064

PIS Sta 331+55.524
 Δ = 28'04"18.3 (LT)
 L = 15.567
 T = 28.209
 R = 300.000
 SE = SEE PLANS
 xxV = 85 kph

PIS Sta 332+42.647
 Gs = 8'35"397
 Ls = 90.000
 Lt = 60.071
 ST = 30.064

PIS Sta 334+41.527
 Gs = 1'13"400
 Ls = 60.000
 Lt = 40.001
 ST = 20.001

PIS Sta 337+35.985
 Δ = 25'11"00.2 (LT)
 L = 52.042
 T = 27.458
 R = 1,400.000
 SE = SEE PLANS

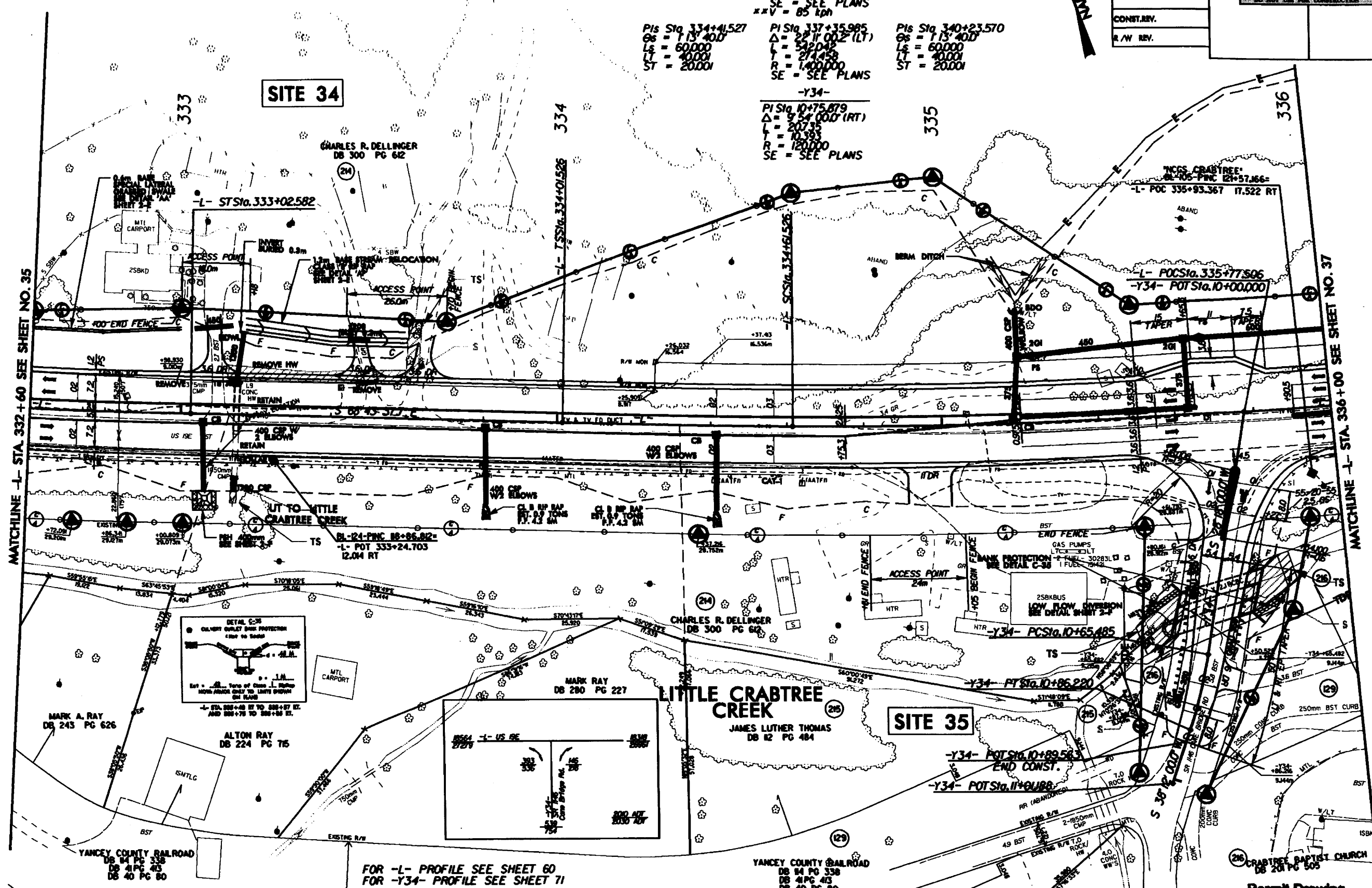
PIS Sta 340+23.570
 Gs = 1'13"400
 Ls = 60.000
 Lt = 40.001
 ST = 20.001

METRIC

CONSTR. REV.
 R/W REV.

PROJECT REFERENCE NO. R-2592A	SHEET NO. 36
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS	
NO REVISIONS FOR CONSTRUCTION	

REVISIONS
 R/W REV. 11/18/05 (TMM): REVISED DRIVEWAY & ACCESS POINT @ STA 334+93 FOR PARCEL 24.1. REVISED EXIST. R/W TO NUMERICAL OFFSET.
 R/W REV. 08/10/06 (TMM): REVISED PROPERTY LINE BETWEEN PARCELS 25 & 26.
 R/W REV. 03/30/07 (RVP): ADDED ACCESS POINT AND TWO DRIVEWAYS AT L- STA. 333+90 AND 333+65 ON PARCEL 24.



FOR -L- PROFILE SEE SHEET 60
 FOR -Y34- PROFILE SEE SHEET 71

DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED FROM 100kph (60mph) TO 80kph (50mph)

PROJECT REFERENCE NO. R-2519A		SHEET NO. 36	
R/W SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS			
CONST. REV.			
R/W REV.			

PIS Sta 330+67.086
 GS = 8'35"397
 LS = 90000
 LT = 60071
 ST = 30064

PIS Sta 331+55.524
 Δ = 22'14"18.3 (LT)
 L = 115.567
 R = 300000
 SE = SEE PLANS
 **V = 85 mph

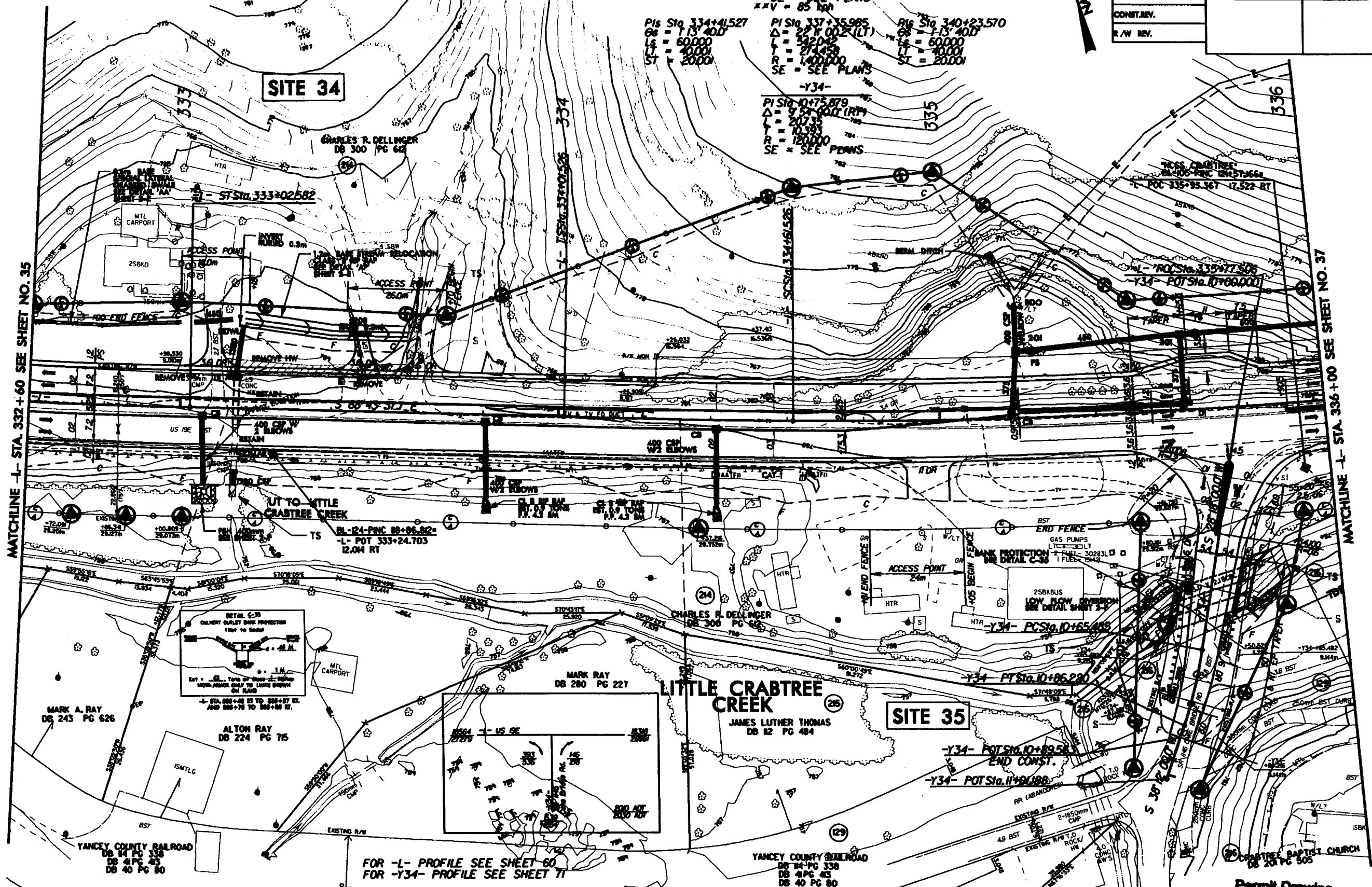
PIS Sta 332+42.647
 GS = 8'35"397
 LS = 90000
 LT = 60071
 ST = 30064

PIS Sta 334+41.527
 GS = 1'13"400
 LS = 60000
 LT = 40001
 ST = 20001

PIS Sta 337+35.985
 Δ = 22'11"00.2 (LT)
 L = 320.442
 R = 274458
 SE = SEE PLANS

PIS Sta 340+23.570
 GS = 1'13"400
 LS = 60000
 LT = 40001
 ST = 20001

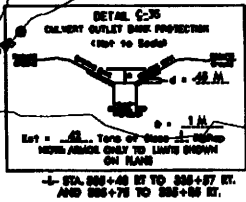
-Y34-
 PIS Sta 10+75.879
 Δ = 9'52"60.0 (RT)
 L = 207.35
 R = 10385
 SE = SEE PLANS



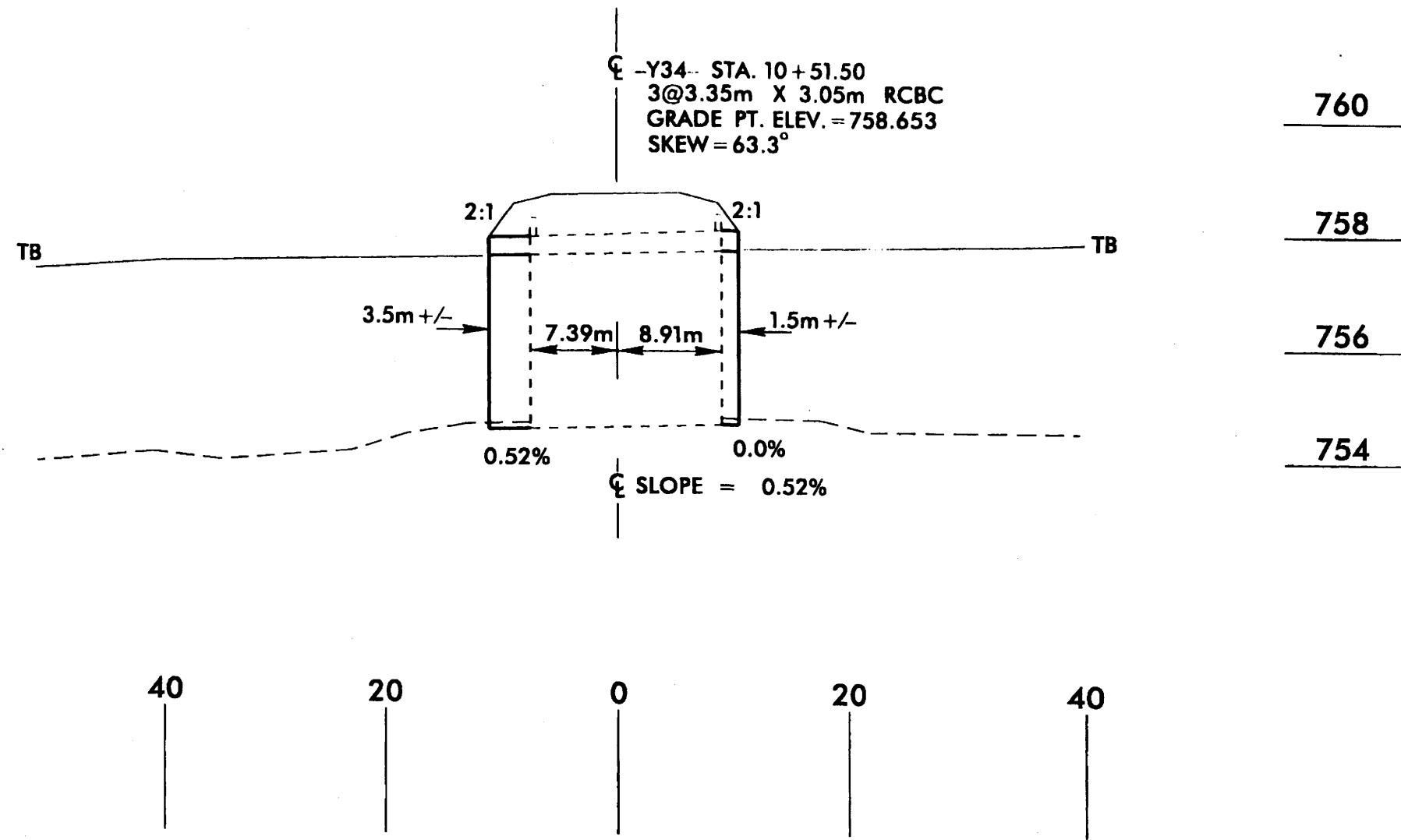
MATCHLINE -L- STA. 332+60 SEE SHEET NO. 35

MATCHLINE -L- STA. 336+00 SEE SHEET NO. 37

R/W REV. 11/18/05 (TMM); REVISED DRIVEWAY & ACCESS POINT @ STA. 334+93 FOR PARCEL 24; REVISED EXIST. R/W TO NUMERICAL OFFSET.
 R/W REV. 08/10/06 (TMM); REVISED PROPERTY LINE BETWEEN PARCELS 25 & 26
 R/W REV. 03/30/07 (RVP); ADDED ACCESS POINT AND TWO DRIVEWAYS AT -L- STA. 333+90 AND 333+65 ON PARCEL 24.



FOR -L- PROFILE SEE SHEET 60
 FOR -Y34- PROFILE SEE SHEET 77



-Y34- STATION 10+51.50
3 @ 3.35m X 3.05m RCBC

SITE 35
PROFILE VIEW

NCDOT
DIVISION OF HIGHWAYS
YANCEY COUNTY
PROJECT: WBS 35609.1.1 (R-2519A)
US 19 E EAST OF
SR 1336 (JACKS CREEK ROAD)
TO SR 1186 (OLD US 19)

10 / 25 / 06

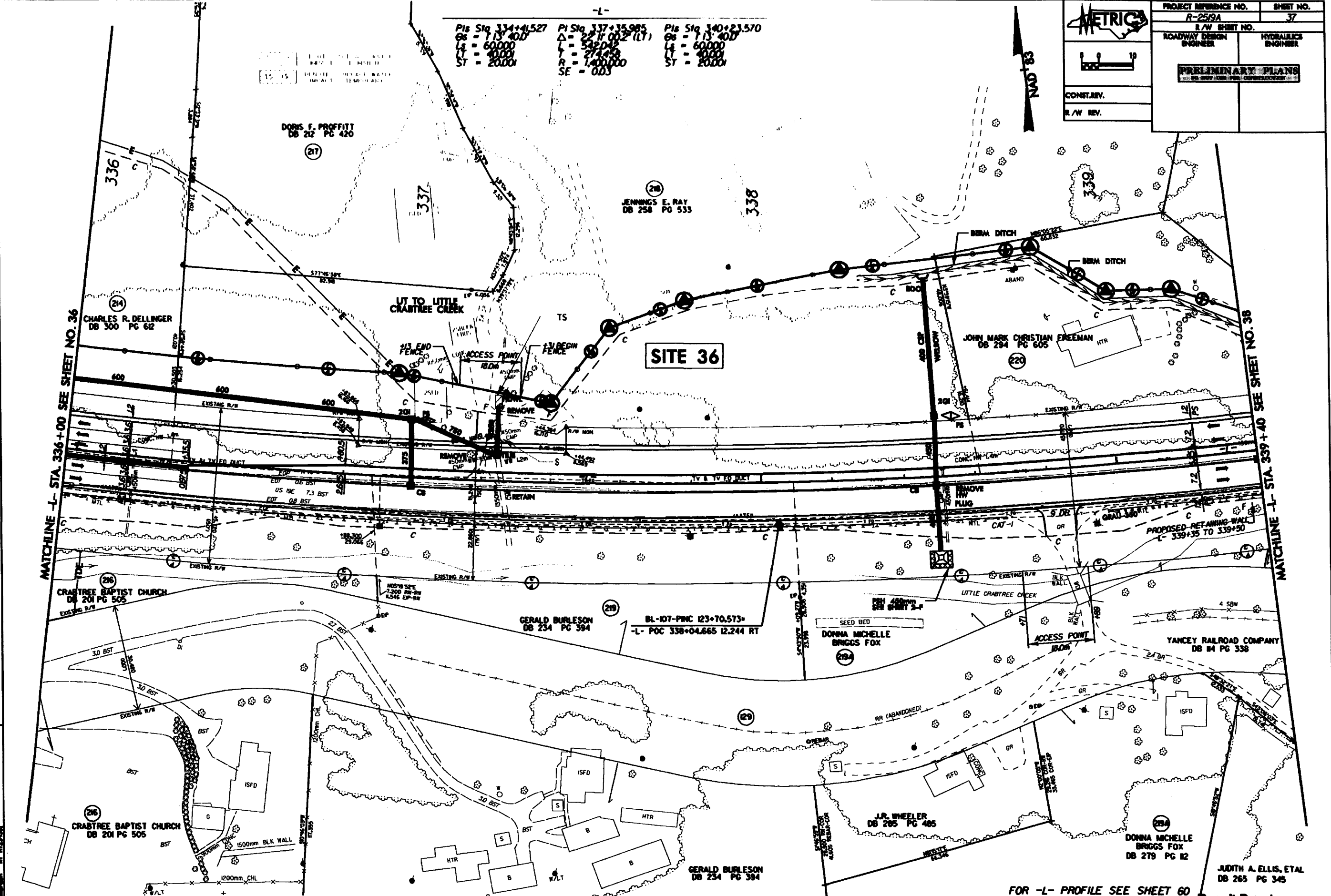
-L-

P16 Sta 334+41.527 Gs = 1.15:40.0 L4 = 60.000 L1 = 40.000 ST = 20.000	P1 Sta 337+35.985 $\Delta = 27.11002 (LT)$ L = 52.000 L = 27.110 R = 1,400.000 SE = 0.03	P16 Sta 340+23.570 Gs = 1.15:40.0 L4 = 60.000 L1 = 40.000 ST = 20.000
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METRIC

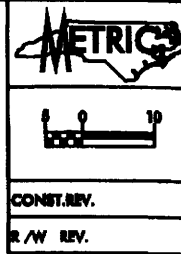
CONST. REV.
R/W REV.

PROJECT REFERENCE NO. R-2519A	SHEET NO. 37
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS	



R/W REV. 11/18/05 (TMM); REVISED EXIST R/W TO NUMERICAL OFFSET.
 R/W REV. 2/27/06 (TMM); ELIMINATED CLAIM ON PARCEL 220A (G.E. FREEMAN).
 R/W REV. 8/10/06 (TMM); CHANGE PROPERTY OWNER NAME ON PARCEL 251A.

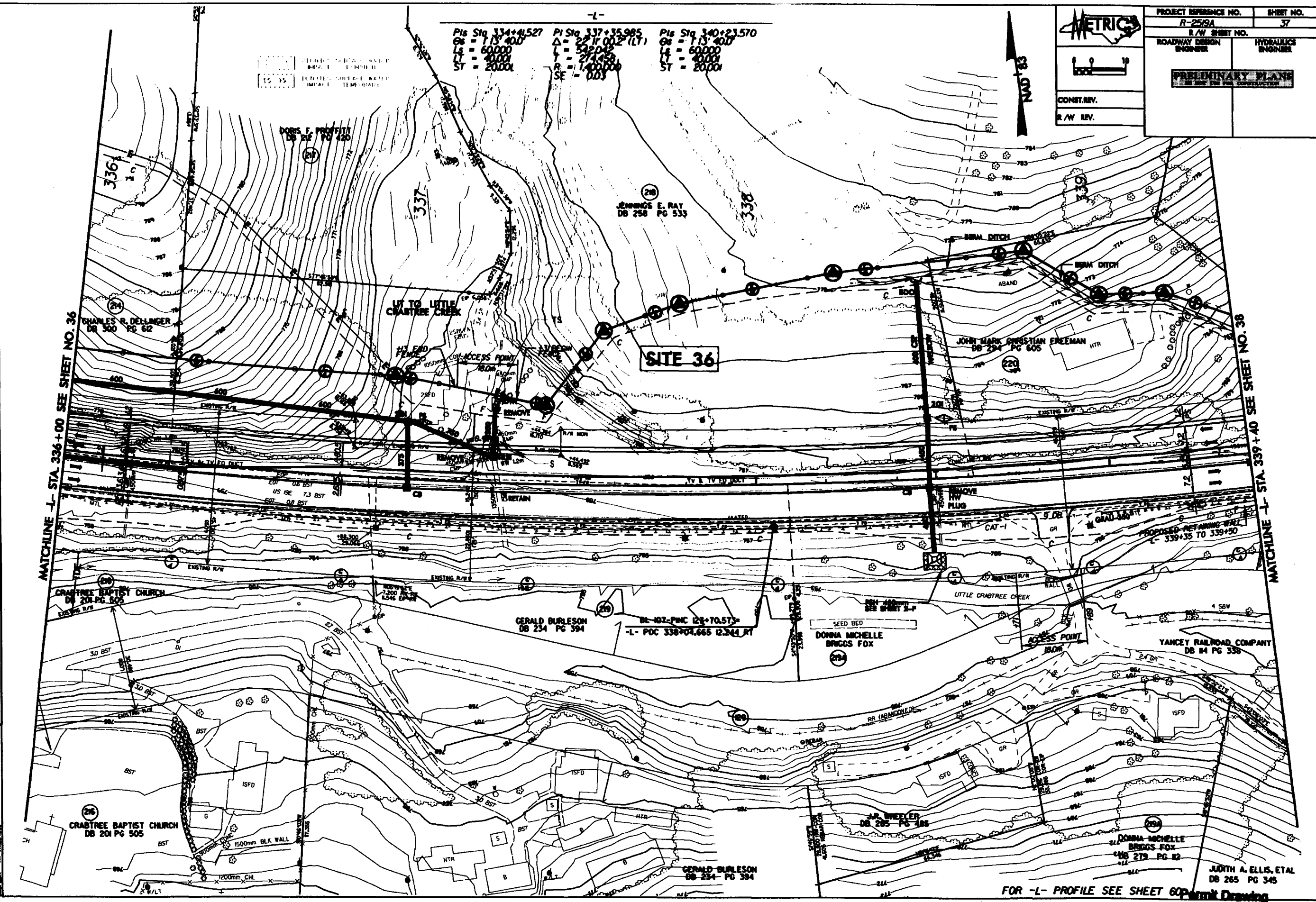
FOR -L- PROFILE SEE SHEET 60



PROJECT REFERENCE NO. R-2519A	SHEET NO. 37
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLAN	
CONST. REV.	
R/W REV.	

-L-

PIs Sta 334+41.527 G _s = 113' 40.0" L _s = 60.000' LT = 40.000' ST = 20.000'	PI Sta 337+35.985 Δ = 2.21' 00.2" (LT) L = 542.045' R = 274.453' SE = 1,400,000' SE = 0.03	PIs Sta 340+23.570 G _s = 113' 40.0" L _s = 60.000' LT = 40.000' ST = 20.000'
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REVISIONS
 R/W REV. 11/18/05 (TMM); REVISED EXIST R/W TO NUMERICAL OFFSET.
 R/W REV. 2/27/06 (TMM); ELIMINATED CLAIM ON PARCEL 220A (G.E. FREEMAN).
 R/W REV. 8/10/06 (TMM); CHANGE PROPERTY OWNER NAME ON PARCEL 29A.

MATCHLINE -L- STA. 336+00 SEE SHEET NO. 36

MATCHLINE -L- STA. 339+40 SEE SHEET NO. 38

FOR -L- PROFILE SEE SHEET 60 permit Drawing

DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED FROM 100kph (160mph) TO 80kph (150mph)

-Y35- POTSta.10+00.000

VT TO LITTLE CHARTER CREEK

-L-

PI Sta 334+41.527 Gs = 1.15' 400
L = 60000
T = 4000
ST = 20000

PI Sta 337+35.985 Gs = 2.21' 00.2 (LT)
L = 27,498
T = 73.45
SE = 0.05

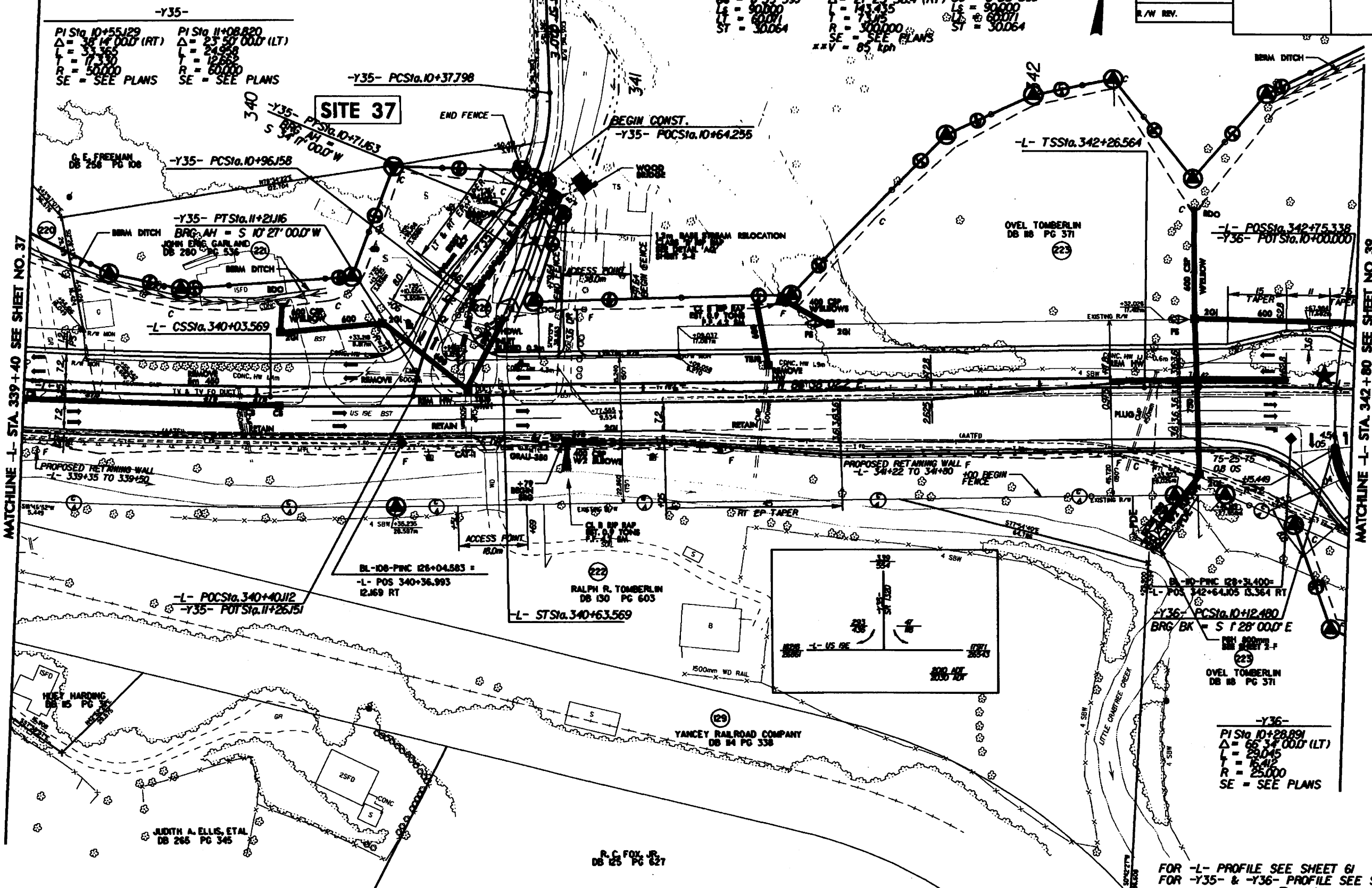
PI Sta 340+23.570 Gs = 1.15' 400
L = 60000
T = 4000
ST = 20000

PI Sta 342+86.635 Gs = 8.35' 39.7
L = 90000
T = 60071
ST = 30.064

PI Sta 343+89.679 Gs = 27.23' 38.4 (RT)
L = 143,435
T = 73.45
SE = 0.05
xxv = 85 kph

PI Sta 344+90.063 Gs = 8.35' 39.7
L = 90000
T = 60071
ST = 30.064

PROJECT REFERENCE NO. R-2519A		SHEET NO. 38	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS			
CONST. REV.		R/W REV.	



MATCHLINE -L- STA. 339+40 SEE SHEET NO. 37

MATCHLINE -L- STA. 342+80 SEE SHEET NO. 39

REVISED PLAN FOR PARCEL 228. FREEMAN, REVISED R/W ON PARCEL 228. ELIMINATED CLAIM AND PARCEL 228A. GLE. R/W REV. 2/2/05 (TMM); ELIMINATED PROPOSED PILE ON PARCEL 228. R/W REV. 3/30/07 (RVP); REVISED PROPOSED PILE ON PARCEL 228. R/W REV. 02/15/08 (RVP); ADDED DRIVEWAY & ACCESS POINT AT STA. 340+80 ON PARCEL 228.

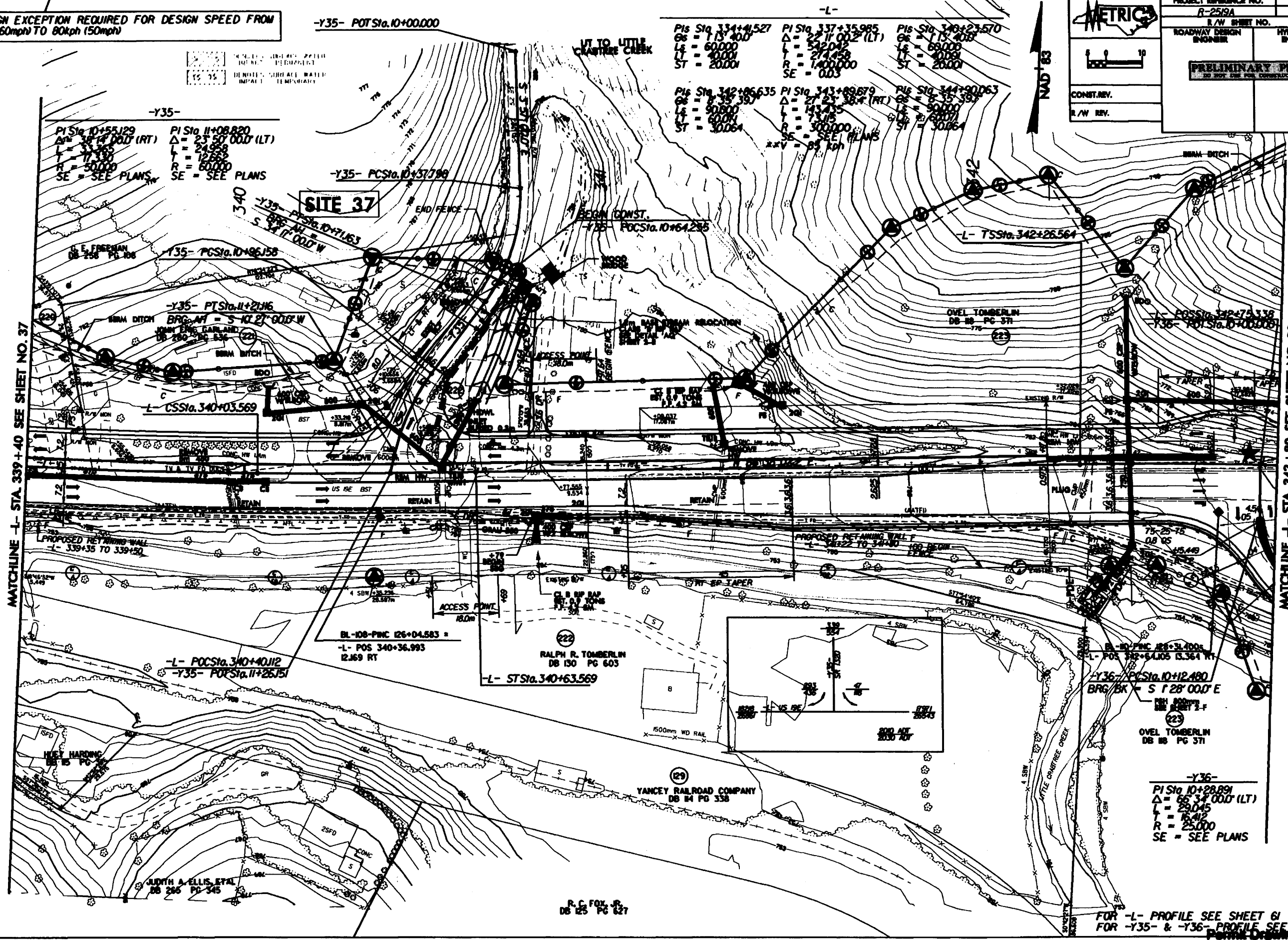
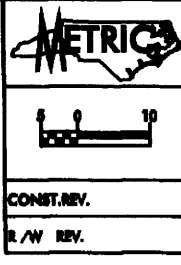
R.C. FOX, JR.
DB 125 PG 627

FOR -L- PROFILE SEE SHEET 61
FOR -Y35- & -Y36- PROFILE SEE SHEET 71

Permit Drawing
Sheet 84 of 86

DESIGN EXCEPTION REQUIRED FOR DESIGN SPEED FROM 100kph (60mph) TO 80kph (50mph)

PROJECT REFERENCE NO.	SHEET NO.
R-2519A	38
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS	
DO NOT USE FOR CONSTRUCTION	
CONST. REV.	
R/W REV.	



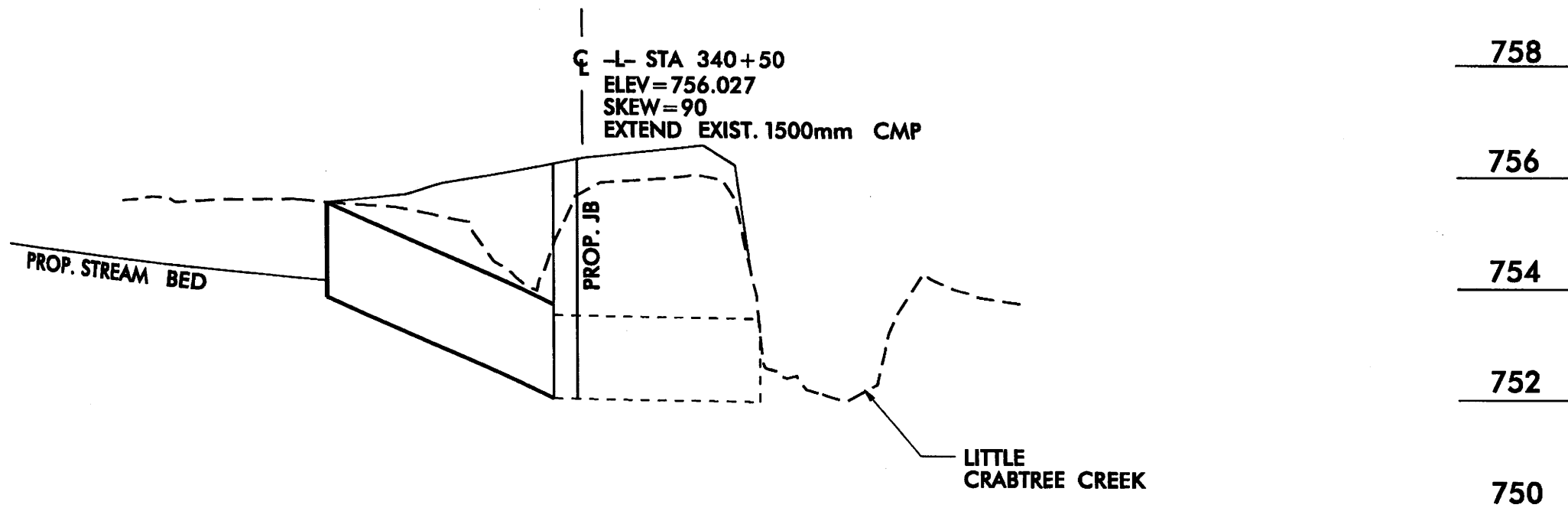
MATCHLINE -L- STA. 339+40 SEE SHEET NO. 37

MATCHLINE -L- STA. 342+80 SEE SHEET NO. 39

REV. 11/05 (TMM); REVISED EXIST. R/W TO NUMERICAL OFFSET. REV. 11/05 (TMM); REVISED EXIST. R/W TO NUMERICAL OFFSET. REV. 01/07 (TMM); ELIMINATED CLAW AND PARCEL 220A (S.E. FREEMAN); REVISED R/W ON PARCEL 221. REV. 01/07 (TMM); ELIMINATED CLAW AND PARCEL 220A (S.E. FREEMAN); REVISED R/W ON PARCEL 221. REV. 01/07 (TMM); ELIMINATED CLAW AND PARCEL 220A (S.E. FREEMAN); REVISED R/W ON PARCEL 221. REV. 01/07 (TMM); ELIMINATED CLAW AND PARCEL 220A (S.E. FREEMAN); REVISED R/W ON PARCEL 221. REV. 02/15/08 (RWP); ADDED DRIVEWAY & ACCESS POINT AT STA. 340+80 ON PARCEL 223.

R. C. FOX, JR.
DB 125 PG 627

FOR -L- PROFILE SEE SHEET 61
FOR -Y35- & -Y36- PROFILE SEE SHEET 71



40 20 0 20 40

-L- STATION 340+50
 EXTEND EXISTING 1500mm CMP
 W/1500mm RCP

SITE 37
 PROFILE VIEW

NCDOT
 DIVISION OF HIGHWAYS
 YANCEY COUNTY
 PROJECT: WBS 35609.1.1 (R-2519A)
 US 19 E EAST OF
 SR 1336 (JACKS CREEK ROAD)
 TO SR 1186 (OLD US 19)

10/25/06