



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT L. MCCRORY
GOVERNOR

ANTHONY J. TATA
SECRETARY

April 8, 2014

Mr. Brad Shaver
U. S. Army Corps of Engineers
Regulatory Field Office
69 Darlington Avenue
Wilmington, North Carolina 28403

Dear Sir:

Subject: **Application for Section 404 Nationwide Permit (NWP) 23 and Section 401 Water Quality Certification** for the widening of Kerr Avenue (SR 1175) from Randall Parkway to Martin Luther King, Jr. Parkway (SR 2649); TIP Project U-3338B; Federal Aid Project No. STP-1175(8), Debit \$240 from WBS No. 34932.1.1.

Please find enclosed PCN, permit drawings, stormwater management plan, and roadway plans for the above referenced project proposed by the North Carolina Department of Transportation (NCDOT). A Federal Categorical Exclusion (CE) was completed for this project on May 28, 2008 that included both Sections B and C of this project, and distributed shortly thereafter. An addendum to this CE was completed on March 28, 2011. A Right-of-Way Consultation was completed for this project on May 7, 2012.

The NCDOT proposes to widen Kerr Avenue from Randall Parkway to Martin Luther King, Jr. Parkway (Section B), and that section of the project is the subject of this application. The improvements will widen Kerr Avenue to a four-lane facility with a raised 23-foot median, five-foot sidewalks and four-foot bicycle lanes. Widening locations were evaluated on each side of Kerr Avenue and then selected on either the east or west side to accommodate the best alignment, minimize impact, and permit maintenance of traffic during construction. A new-location connector road will extend from Market Street (at Wilmington Avenue) to Kerr Avenue (at Birchwood Drive) to provide the quadrant intersection design for Market Street evaluated in the CE Addendum. Section C includes improvements to the intersection of Kerr Avenue and Martin Luther King, Jr. Parkway, and is not currently funded for construction. The NCDOT will submit a separate permit application for that section at a later date.

Proposed permanent impacts to wetlands from project construction are 0.05 acre for roadway fill, and less than 0.01 acre of excavation in wetlands. Permanent stream impacts include 36 feet. Utility relocations will not impact wetlands or streams.

This project is scheduled for a letting date of November 18, 2014 and a review date of September 30, 2014; however, the let date may advance as additional funding becomes available.

Since the CE addendum was completed in 2011, the U.S. Fish and Wildlife Service has added three species to the list of federally protected Threatened and Endangered species in New Hanover County. Appropriate habitat does not exist in the study area for the Atlantic sturgeon (*Acipenser oxyrinchus oxyrinchus*) or the red knot (*Calidris canutus rufa*). A U.S. Fish and Wildlife Service proposal for listing the Northern Long-eared Bat (*Myotis septentrionalis*) as an Endangered species was published in the Federal Register in October 2013. The listing may become effective as soon as October 2014. Furthermore, this species is included in USFWS's current list of protected species for New Hanover County. NCDOT is working closely with the USFWS to understand how this proposed listing may impact NCDOT projects. NCDOT will continue to coordinate appropriately with USFWS to determine if this project will incur potential effects to the Northern long-eared bat, and how to address these potential effects, if necessary.

Regulatory Approvals

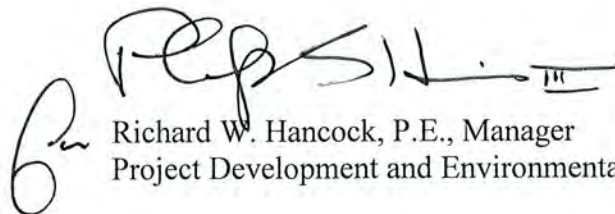
Section 404 Permit: All aspects of this project are being processed by the Federal Highway Administration as a "Categorical Exclusion" in accordance with 23 CFR 771.115(b). The NCDOT requests that the project be authorized by NWP 23 for roadway construction.

Section 401 Permit: We anticipate 401 General Certification number 3891 will apply to this project. NCDOT is requesting written concurrence from the North Carolina Department of Environment and Natural Resources, Division of Water Resources

A copy of this permit application will be posted on the NCDOT Website at <https://connect.ncdot.gov/resources/Environmental/Pages/default.aspx>, under Quick Links > Permit Applications. A copy of the CE Addendum is also available at the above website address under Quick Links > Environmental Documents.

Thank you for your assistance with this project. If you have any questions or need additional information, please contact Gordon Cashin at either gcashin@ncdot.gov or (919) 707-6107.

Sincerely,

A handwritten signature in black ink, appearing to read 'R. Hancock', with a stylized flourish at the end.

Richard W. Hancock, P.E., Manager
Project Development and Environmental Analysis Unit

cc: NCDOT Permit Application Standard Distribution List.



Office Use Only:
Corps action ID no. _____
DWQ project no. _____
Form Version 1.3 Dec 10 2008

Pre-Construction Notification (PCN) Form

A. Applicant Information

1. Processing

1a. Type(s) of approval sought from the Corps:	☒ Section 404 Permit	☐ Section 10 Permit
1b. Specify Nationwide Permit (NWP) number: 23 or General Permit (GP) number:		
1c. Has the NWP or GP number been verified by the Corps?	☐ Yes	☒ No
1d. Type(s) of approval sought from the DWQ (check all that apply): ☒ 401 Water Quality Certification – Regular ☐ Non-404 Jurisdictional General Permit ☐ 401 Water Quality Certification – Express ☐ Riparian Buffer Authorization		
1e. Is this notification solely for the record because written approval is not required?	For the record only for DWQ 401 Certification: ☐ Yes ☒ No	For the record only for Corps Permit: ☐ Yes ☒ No
1f. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts? If so, attach the acceptance letter from mitigation bank or in-lieu fee program.	☐ Yes	☒ No
1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.	☒ Yes	☐ No
1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?	☐ Yes	☒ No

2. Project Information

2a. Name of project:	Kerr Avenue Widening and Improvements from Randall Parkway to MLK Jr. Parkway
2b. County:	New Hanover
2c. Nearest municipality / town:	Wilmington
2d. Subdivision name:	<i>not applicable</i>
2e. NCDOT only, T.I.P. or state project no:	U-3338B

3. Owner Information

3a. Name(s) on Recorded Deed:	North Carolina Department of Transportation
3b. Deed Book and Page No.	<i>not applicable</i>
3c. Responsible Party (for LLC if applicable):	<i>not applicable</i>
3d. Street address:	1598 Mail Service Center
3e. City, state, zip:	Raleigh, NC 27699-1598
3f. Telephone no.:	(919) 707-6107
3g. Fax no.:	(919) 431-2002
3h. Email address:	gcashin@ncdot.gov

4. Applicant Information (if different from owner)	
4a. Applicant is:	☐ Agent ☐ Other, specify:
4b. Name:	<i>not applicable</i>
4c. Business name (if applicable):	
4d. Street address:	
4e. City, state, zip:	
4f. Telephone no.:	
4g. Fax no.:	
4h. Email address:	
5. Agent/Consultant Information (if applicable)	
5a. Name:	<i>not applicable</i>
5b. Business name (if applicable):	
5c. Street address:	
5d. City, state, zip:	
5e. Telephone no.:	
5f. Fax no.:	
5g. Email address:	

B. Project Information and Prior Project History	
1. Property Identification	
1a. Property identification no. (tax PIN or parcel ID):	<i>not applicable</i>
1b. Site coordinates (in decimal degrees):	Latitude: 34.242797, Longitude: -77.890127
1c. Property size:	112.1 acres
2. Surface Waters	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Smith Creek and Spring Branch
2b. Water Quality Classification of nearest receiving water:	C SW
2c. River basin:	Cape Fear River Basin
3. Project Description	
3a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: Residential and commercial development along roadways, and forest along stream and wetland corridors.	
3b. List the total estimated acreage of all existing wetlands on the property: 1.29	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 3,000	
3d. Explain the purpose of the proposed project: The primary purpose of the project is to increase capacity and improve traffic flow along Kerr Avenue. Improvements are needed to increase capacity in order to raise level of service conditions at most intersections in the project area.	
3e. Describe the overall project in detail, including the type of equipment to be used: Widening of Kerr Avenue with sidewalks and bike lines and constructing a new connector to Market Street. Standard road building equipment, such as trucks, dozers, and cranes will be used.	
4. Jurisdictional Determinations	
4a. Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past? Comments:	☒ Yes ☐ No ☐ Unknown
4b. If the Corps made the jurisdictional determination, what type of determination was made?	☒ Preliminary ☐ Final
4c. If yes, who delineated the jurisdictional areas? Name (if known): Cindy Carr	Agency/Consultant Company: NCDOT Other: Mulkey
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. May 14, 2010	
5. Project History	
5a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	☐ Yes ☒ No ☐ Unknown
5b. If yes, explain in detail according to "help file" instructions.	
6. Future Project Plans	
6a. Is this a phased project?	☐ Yes ☒ No
6b. If yes, explain.	

C. Proposed Impacts Inventory						
1. Impacts Summary						
1a. Which sections were completed below for your project (check all that apply):						
☒ Wetlands		☒ Streams - tributaries		☐ Buffers		
☒ Open Waters		☐ Pond Construction				
2. Wetland Impacts						
If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.						
2a. Wetland impact number – Permanent (P) or Temporary (T)	2b. Type of impact	2c. Type of wetland (if known)	2d. Forested	2e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	2f. Area of impact (acres)	
Site 3 ☒ P ☐ T	fill	Non-riparian	☒ Yes ☐ No	☒ Corps ☒ DWQ	0.01	
Site 4 ☒ P ☐ T	excavation	riparian	☐ Yes ☒ No	☒ Corps ☒ DWQ	<0.01	
Site 8 ☒ P ☐ T	fill	riparian	☒ Yes ☐ No	☒ Corps ☒ DWQ	0.04	
2g. Total wetland impacts					0.05 Perm.	
2h. Comments: There will be 0.07 ac of hand clearing. Additionally, there will be 0.01 ac of temporary fill in hand clearing areas for erosion control measures.						
3. Stream Impacts						
If there are perennial or intermittent stream impacts (including temporary impacts) proposed on the site, then complete this question for all stream sites impacted.						
3a. Stream impact number - Permanent (P) or Temporary (T)	3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)?	3e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	3f. Average stream width (feet)	3g. Impact length (linear feet)
Site 4 ☒ P ☐ T	30" RCP	An intermittent stream with abutting wetlands beginning at a pipe outlet and extending to the twin pipes at McLelland Drive; an unnamed tributary of Spring Branch	☐ PER ☒ INT	☒ Corps ☐ DWQ	5	36
Site 4 ☐ P ☒ T	"	"	☐ PER ☒ INT	☒ Corps ☐ DWQ	5	13
3h. Total stream and tributary impacts						36 Perm 13 Temp
3i. Comments: Site 4 is an intermittent stream not identified in the NRTR, but identified in a later field review with the agencies.						

4. Open Water Impacts

If there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of the U.S. then individually list all open water impacts below.

4a. Open water impact number – Permanent (P) or Temporary (T)	4b. Name of waterbody (if applicable)	4c. Type of impact	4d. Waterbody type	4e. Area of impact (acres)
O1 ☒ P ☐ T	Jurisdictional ditch (DD) drains through a pipe to Burnt Mill Creek	103" x 71" arch pipe	Trib. to waters of the U.S.	<0.01
O1 ☐ P ☒ T	"	"	"	0.04
O2 ☒ P ☐ T	Jurisdictional ditch (DA) drains to the City of Wilmington's enclosed stormwater system	48" RCP	Trib. to waters of the U.S.	<0.01
O2 ☐ P ☒ T	"	"	"	<0.01
O4 ☒ P ☐ T	Unnamed tributary of Spring Branch	30" RCP	An intermittent stream with abutting wetlands beginning at a pipe outlet and extending to the twin pipes at McLelland Drive	<0.01
O4 ☐ P ☒ T	"	"	"	<0.01
O6 ☒ P ☐ T	Jurisdictional ditch (DB) drains to perennial stream SC, an unnamed tributary of Spring Branch	24" RCP	Trib. to waters of the U.S.	0.04
O6 ☐ P ☒ T	"	"	"	0.02
4f. Total open water impacts				0.05 Permanent 0.07 Temporary

4g. Comments: : The NRTR addendum identifies four maintained ditches that were determined to be jurisdictional during the September 22, 2009 field verification. The NRTR addendum identifies them as DA, DB, DC, DD. Of these, DA, DB & DD are tributaries to waters, so only surface water impacts are shown. DC was dropped as a jurisdictional feature. Site 4 is an intermittent stream not identified in the NRTR, but identified in a later field review with the agencies..

5. Pond or Lake Construction

If pond or lake construction proposed, then complete the chart below.

5a. Pond ID number	5b. Proposed use or purpose of pond	5c. Wetland Impacts (acres)			5d. Stream Impacts (feet)			5e. Upland (acres)
		Flooded	Filled	Excavated	Flooded	Filled	Excavated	Flooded
P1								
P2								
5f. Total								
5g. Comments:								
5h. Is a dam high hazard permit required?			☐ Yes ☐ No If yes, permit ID no:					
5i. Expected pond surface area (acres):								
5j. Size of pond watershed (acres):								
5k. Method of construction:								

6. Buffer Impacts (for DWQ)

If project will impact a protected riparian buffer, then complete the chart below. If yes, then individually list all buffer impacts below. If any impacts require mitigation, then you **MUST** fill out Section D of this form.

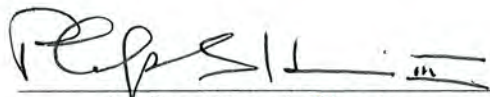
6a. Project is in which protected basin?			☐ Neuse ☐ Catawba			☐ Tar-Pamlico ☐ Randleman		☐ Other:	
6b. Buffer impact number – Permanent (P) or Temporary (T)	6c. Reason for impact	6d. Stream name	6e. Buffer mitigation required?	6f. Zone 1 impact (square feet)	6g. Zone 2 impact (square feet)				
B1 ☐ P ☐ T			☐ Yes ☐ No						
B2 ☐ P ☐ T			☐ Yes ☐ No						
B3 ☐ P ☐ T			☐ Yes ☐ No						
6h. Total buffer impacts									
6i. Comments:									

D. Impact Justification and Mitigation		
1. Avoidance and Minimization		
1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project. Widening along the existing roadway using a "best-fit" alignment. 3:1 slopes in jurisdictional areas.		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. NCDOT Best Management Practices for the Protection of Surface Waters and erosion control measures will be utilized.		
2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State		
2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?	☐ Yes ☒ No If no, explain: During preparation of the CE addendum, it was determined that the linear water features are subject to Section 404/401 permitting, but not subject to requirements for compensatory mitigation. Due to the minimal amount of wetland impacts, compensatory mitigation for wetlands is not proposed.	
2b. If yes, mitigation is required by (check all that apply):	☐ DWQ ☐ Corps	
2c. If yes, which mitigation option will be used for this project?	☐ Mitigation bank ☐ Payment to in-lieu fee program ☐ Permittee Responsible Mitigation	
3. Complete if Using a Mitigation Bank		
3a. Name of Mitigation Bank: not applicable		
3b. Credits Purchased (attach receipt and letter)	Type	Quantity
3c. Comments:		
4. Complete if Making a Payment to In-lieu Fee Program		
4a. Approval letter from in-lieu fee program is attached.	☐ Yes	
4b. Stream mitigation requested:	linear feet	
4c. If using stream mitigation, stream temperature:	☐ warm ☐ cool ☐ cold	
4d. Buffer mitigation requested (DWQ only):	square feet	
4e. Riparian wetland mitigation requested:	acres	
4f. Non-riparian wetland mitigation requested:	acres	
4g. Coastal (tidal) wetland mitigation requested:	acres	
4h. Comments:		
5. Complete if Using a Permittee Responsible Mitigation Plan		
5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.		

6. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ				
6a. Will the project result in an impact within a protected riparian buffer that requires buffer mitigation?				☐ Yes ☒ No
6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required.				
Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)
Zone 1			3 (2 for Catawba)	
Zone 2			1.5	
	6f. Total buffer mitigation required:			
6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund).				
6h. Comments:				

E. Stormwater Management and Diffuse Flow Plan (required by DWQ)	
1. Diffuse Flow Plan	
1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?	☐ Yes ☒ No
1b. If yes, then is a diffuse flow plan included? If no, explain why. Comments:	☐ Yes ☐ No
2. Stormwater Management Plan	
2a. What is the overall percent imperviousness of this project?	N/A
2b. Does this project require a Stormwater Management Plan?	☒ Yes ☐ No
2c. If this project DOES NOT require a Stormwater Management Plan, explain why:	
2d. If this project DOES require a Stormwater Management Plan, then provide a brief, narrative description of the plan: See attached permit drawings.	
2e. Who will be responsible for the review of the Stormwater Management Plan?	☐ Certified Local Government ☐ DWQ Stormwater Program ☒ DWQ 401 Unit
3. Certified Local Government Stormwater Review	
3a. In which local government's jurisdiction is this project?	not applicable
3b. Which of the following locally-implemented stormwater management programs apply (check all that apply):	☐ Phase II ☐ NSW ☐ USMP ☐ Water Supply Watershed ☐ Other:
3c. Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes ☐ No
4. DWQ Stormwater Program Review	
4a. Which of the following state-implemented stormwater management programs apply (check all that apply):	☐ Coastal counties ☐ HWQ ☐ ORW ☐ Session Law 2006-246 ☐ Other:
4b. Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes ☐ No
5. DWQ 401 Unit Stormwater Review	
5a. Does the Stormwater Management Plan meet the appropriate requirements?	☐ Yes ☐ No N/A
5b. Have all of the 401 Unit submittal requirements been met?	☐ Yes ☐ No N/A

F. Supplementary Information	
1. Environmental Documentation (DWQ Requirement)	
1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land?	☒ Yes ☐ No
1b. If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)?	☒ Yes ☐ No
1c. If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.) Comments:	☒ Yes ☐ No
2. Violations (DWQ Requirement)	
2a. Is the site in violation of DWQ Wetland Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), DWQ Surface Water or Wetland Standards, or Riparian Buffer Rules (15A NCAC 2B .0200)?	☐ Yes ☒ No
2b. Is this an after-the-fact permit application?	☐ Yes ☒ No
2c. If you answered "yes" to one or both of the above questions, provide an explanation of the violation(s):	
3. Cumulative Impacts (DWQ Requirement)	
3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?	☐ Yes ☒ No
3b. If you answered "yes" to the above, submit a qualitative or quantitative cumulative impact analysis in accordance with the most recent DWQ policy. If you answered "no," provide a short narrative description. "The study area is nearly built-out and local planners do not expect the improvements to change land use patterns or encourage substantial new development. Therefore, a detailed indirect or cumulative effects study is not required." (CE Addendum, p. 39)	
4. Sewage Disposal (DWQ Requirement)	
4a. Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge) of wastewater generated from the proposed project, or available capacity of the subject facility. not applicable	

5. Endangered Species and Designated Critical Habitat (Corps Requirement)		
5a. Will this project occur in or near an area with federally protected species or habitat?	☐ Yes	☒ No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	☐ Yes	☒ No
5c. If yes, indicate the USFWS Field Office you have contacted.	☐ Raleigh ☐ Asheville	
5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? USFWS County Site, NC Natural Heritage Program data		
6. Essential Fish Habitat (Corps Requirement)		
6a. Will this project occur in or near an area designated as essential fish habitat?	☐ Yes	☒ No
6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat? In a letter dated September 2, 2003 (published in the 2008 CE document appendix), NMFS confirmed no Essential Fish Habitat for federally managed species will be affected by the project.		
7. Historic or Prehistoric Cultural Resources (Corps Requirement)		
7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)?	☐ Yes	☒ No
7b. What data sources did you use to determine whether your site would impact historic or archeological resources? NEPA Documentation		
8. Flood Zone Designation (Corps Requirement)		
8a. Will this project occur in a FEMA-designated 100-year floodplain?	☒ Yes	☐ No
8b. If yes, explain how project meets FEMA requirements: NCDOT Hydraulics Unit coordination with FEMA		
8c. What source(s) did you use to make the floodplain determination? FEMA Maps		
 Richard W. Hancock, P.E. Applicant/Agent's Printed Name	 Applicant/Agent's Signature (Agent's signature is valid only if an authorization letter from the applicant is provided.)	04/08/2014 Date

U.S. ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT

Action Id. 2003 1069

County: New Hanover

U.S.G.S. Quad: Wilmington

NOTIFICATION OF JURISDICTIONAL DETERMINATION

Applicant: NCDOT – PDEA
Address: attn: Mr. Chris Underwood
1598 Mail Service Center
Raleigh, NC 27699-1598

Agent: Mulkey
attn: Cindy Carr
P.O. Box 33127
Raleigh, NC 27636

Property description:

Size (miles) 1.7 miles

Nearest Waterway Smith Creek

USGS HUC 03030005

Nearest Town Wilmington

River Basin Cape Fear

Coordinates N 34.2430 W 77.8901

Location description The Kerr Avenue project extends from Randall Parkway to SR 2649 (Martin Luther King, Jr. Parkway) with a possible interchange proposed at Kerr Ave. and Martin Luther King Jr. Parkway., New Hanover County. The corridor crosses several tributaries that ultimately drain to Smith Creek, a tributary of the Cape Fear River.

Indicate Which of the Following Apply:

A. Preliminary Determination

- ☒ Based on preliminary information, there may be wetlands and waters on the above described property. We strongly suggest you have this property inspected to determine the extent of Department of the Army (DA) jurisdiction. To be considered final, a jurisdictional determination must be verified by the Corps. This preliminary determination is not an appealable action under the Regulatory Program Administrative Appeal Process (Reference 33 CFR Part 331).

B. Approved Determination

- ☐ There are Navigable Waters of the United States within the above described property subject to the permit requirements of Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

- ☐ There are wetlands on the above described property subject to the permit requirements of Section 404 of the Clean Water Act (CWA)(33 USC § 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

☐ We strongly suggest you have the wetlands on your property delineated. Due to the size of your property and/or our present workload, the Corps may not be able to accomplish this wetland delineation in a timely manner. For a more timely delineation, you may wish to obtain a consultant. To be considered final, any delineation must be verified by the Corps.

☐ The wetland on your property have been delineated and the delineation has been verified by the Corps. We strongly suggest you have this delineation surveyed. Upon completion, this survey should be reviewed and verified by the Corps. Once verified, this survey will provide an accurate depiction of all areas subject to CWA jurisdiction on your property which, provided there is no change in the law or our published regulations, may be relied upon for a period not to exceed five years.

☐ The wetlands have been delineated and surveyed and are accurately depicted on the plat signed by the Corps Regulatory Official identified below on _____. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

- ☐ There are no waters of the U.S., to include wetlands, present on the above described property which are subject to the permit requirements of Section 404 of the Clean Water Act (33 USC 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

ATTACHMENT

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD): Field JD verification on 9/22/09.

B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD:
Chris Underwood
NCDOT Natural Environment Unit
1598 Mail Service Center
Raleigh, NC 27699-1598

C. DISTRICT OFFICE, FILE NAME, AND NUMBER: *WILMINGTON,
U-3338 (KERR AVE.), 203 1069*

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:
Kerr Avenue, from Randall Parkway to SR 2649 (Martin Luther King, Jr. Parkway) (TIP U-3338) with an interchange proposed at Kerr Avenue and Martin Luther King, Jr. Parkway. The length of the project is 1.7 miles.

(USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)

State: NC County/parish/borough: New Hanover City: Wilmington

Center coordinates of site (lat/long in degree decimal format):

Lat. 34.243066° N, Long. -77.890188° W.

Universal Transverse Mercator: 17N

Name of nearest waterbody: Smith Creek

Identify (estimate) amount of waters in the review area:

Non-wetland waters: 1,626 linear feet: width (ft) and/or 0.17 acres.

Cowardin Class: R2AB2, R2UB2

Stream Flow:

Wetlands: 1.28 acres.

Cowardin Class: PFO1, PEM1

Name of any water bodies on the site that have been identified as Section 10 waters:

Tidal: none

Non-Tidal: none

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

☐ Office (Desk) Determination. Date:

☒ Field Determination. Date(s): 9/22/09

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable. This preliminary JD finds that there "*may be*" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for preliminary JD (check all that apply

- checked items should be included in case file and, where checked and requested, appropriately reference sources below):

☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Figure 1 Project Vicinity, Figure 2 Project Location, Figures 3a,3b Jurisdictional Features Map, Figure 4 Soil Map Units

☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.

☒ Office concurs with data sheets/delineation report.

☐ Office does not concur with data sheets/delineation report.

☐ Data sheets prepared by the Corps:

☐ Corps navigable waters' study:

☒ U.S. Geological Survey Hydrologic Atlas:

☐ USGS NHD data.

☒ USGS 8 and 12 digit HUC maps.

☒ U.S. Geological Survey map(s). Cite scale & quad name:
1:24000 Castle Hayne, 1:24000 Wilmington.

☒ USDA Natural Resources Conservation Service Soil Survey. Citation:
Soil Survey of New Hanover County, April 1977. USDA, SCS

☒ National wetlands inventory map(s). Cite name: Castle Hayne, Wilmington.

☐ State/Local wetland inventory map(s):

☐ FEMA/FIRM maps:

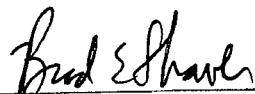
☐ 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)

☒ Photographs: ☐ Aerial (Name & Date): 2006 NCDOT Color.
or ☐ Other (Name & Date):

☒ Previous determination(s). File no. and date of response letter:
200301069, JD issued on April 1, 2004 (D. Timpy).

☐ Other information (please specify):

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.



Signature and date of
Regulatory Project Manager
(REQUIRED)

 5/10/10

Signature and date of
person requesting preliminary JD
(REQUIRED, unless obtaining
the signature is impracticable)

Site number	Latitude	Longitude	Cowardin Class	Estimated amount of aquatic resource in review area	Class of aquatic resource
SA	34.254623	-77.886797	R2UB2	160 linear feet	non-section 10 – non-wetland
SA	34.253980	-77.886363	R2UB2	113 linear feet	non-section 10 – non-wetland
SB	34.254147	-77.891982	R2UB2	272 linear feet	non-section 10 – non-wetland
SB	34.253273	-77.894173	R2UB2	510 linear feet	non-section 10 – non-wetland
SC(SD)	34.246680	-77.888729	R2UB2	571 linear feet	non-section 10 – wetland
WA	34.253371	-77.893270	PFO1	0.2 acre	non-section 10 – wetland
WB	34.254640	-77.886780	PFO1	0.29 acre	non-section 10 – wetland
WC	34.254066	-77.893697	PEM1	0.09 acre	non-section 10 – wetland
WD	34.254398	-77.891477	PFO1	0.5 acre	non-section 10 – wetland
WE	34.253930	-77.886184	PFO1	0.1 acre	non-section 10 – wetland
WF	34.231574	-77.888987	PFO1	0.1 acre	non-section 10 – wetland
DA	34.239201	-77.889106	R2AB2	0.14 acre	non-section 10 – non-wetland
DB	34.246210	-77.887588	R2AB2	0.1 acre	non-section 10 – non-wetland
DC	34.245460	-77.887692	R2AB2	0.1 acre	non-section 10 – non-wetland
DD(DF)	34.235708	-77.888243	R2AB2	0.1 acre	non-section 10 – non-wetland



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR LINEAR ROADWAY PROJECTS

(Version 1.2; Released September 2011)

Project/TIP No.: U-3338B County(ies): New Hanover Page 1 of 3

General Project Information

Project No.:	U-3338B	Project Type:	Roadway Widening	Date:	3/25/2014
NCDOT Contact:	Ray Lovinggood	Contractor / Designer:	Ray Lovinggood		
Address:	NCDOT Hydraulics Unit 1590 MSC Raleigh NC 27699-1590	Address:			
Phone:	919.707.6736	Phone:			
Email:	rlovinggood@ncdot.gov	Email:			
City/Town:	Wilmington	County(ies):	New Hanover		
River Basin(s):	Cape Fear	CAMA County?	Yes		
Primary Receiving Water:	See "General Project Narrative."	NCDWQ Stream Index No.:	Burnt Mill Ck 18-74-63-2; Spring Branch 18-74-63-1; Smith Creek 18-74-63		
NCDWQ Surface Water Classification for Primary Receiving Water	Primary:	Class C	Class C	Class C	
	Supplemental:	Swamp Waters (Sw)	Swamp Waters (Sw)	Swamp Waters (Sw)	
Other Stream Classification:					
303(d) Impairments:		biological impairment			
Buffer Rules in Effect	N/A				

Project Description

Project Length (lin. Miles or feet):	1.64	Surrounding Land Use:	Urban / Suburban / Commercial / Light Industrial		
	Proposed Project		Existing Site		
Project Built-Upon Area (ac.)	35.20 ac.		18.70 ac.		
Typical Cross Section Description:	5 lane curb and gutter arterial		Mix of two lane open shoulder, three lane open shoulder, and five lane curb and gutter.		
Average Daily Traffic (veh/hr/day):	Design/Future: 29,350	Existing:	28,350		

General Project Narrative:

The project widens the existing roadway, which has a mix of two lane open shoulder, three lane open shoulder, and five lane curb and gutter to a continuous five lane curb and gutter roadway.

South of Market Street, drainage from Kerr Avenue flows towards Burnt Mill Creek. North of Market Street, the drainage from Kerr flows towards Smith Creek.

The existing urban and suburban mix of homes and businesses prevented the design of stormwater management facilities for the majority of the project area. However, north of Market Street, grass swales were incorporated into the design, where feasible, on: -Y7A-, which is a new street on new location and is currently named Wilmington Ave Extension; -Y8-, McClelland Dr; and, -SR1-, a presently unnamed roadway on new location.

The majority of Kerr Avenue from the intersection of Market Street (plan sheet 12) drains south in a new storm drain system to an existing culvert, owned by the City of Wilmington, on plan sheet 7. The existing culvert runs parallel to Emerson Street westward for approximately 920 feet where it turns 90 degrees to the south and discharges into a concrete lined trapezoidal open canal. The canal runs for approximately 1,345 feet where it ends at Randall Parkway. Two 72" concrete pipes convey the flow under Randall Parkway to the existing unnamed Jurisdictional Stream. The JS connects to Burnt Mill Creek.

North of Market Street, the drainage from Kerr Ave eventually drains to Smith Creek via existing stormwater systems. From Market Street to McClelland Drive (-Y8-), drainage flows in a new stormwater system to an existing 36" concrete pipe which parallels McClelland Drive and discharges into an unnamed JS which feeds Spring Branch that flows into Smith Creek. From McClelland to the northern terminus of the project at Martin Luther King, Jr. Pkwy, stormwater flows in a new stormwater system which connects to an existing system that eventually runs west under the median of MLK, Jr. Pkwy before discharging into a wetland on the north side of MLK, Jr. Pkwy. The wetland drains towards Smith Creek.

References



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR LINEAR ROADWAY PROJECTS

(Version 1.2; Released September 2011)

Project/TIP No.: U-3338B

County(ies): New Hanover

Page 2 of 3

Project Environmental Summary

Surface Water Impacts

Sheet No.	Station (From / To)	Feature Impacted	Water / Wetland / Buffer Type	Receiving Surface Water Name	NRTR Map ID	NCDWQ Stream Index	NCDWQ Surface Water Classification	303(d) Impairments	Type of Impact	Existing SCM	Proposed SCM
7	-L- Sta 30+55 Right	Stream	Perennial	Unnamed	DD				Culvert	N/A	
10	-L- Sta 43+50 Right	Stream	Perennial	Unnamed	DA				Culvert	N/A	
21	-Y1- Sta 13+70 Right	Wetland	Non-Riverine Swamp Forest	Unnamed	WF				Fill	N/A	
35	-Y7A- Sta 13+35 Left	Stream	Perennial	Unnamed	Not ID'ed				Culvert	N/A	
35	-Y7A- Sta 16+55 Left	Stream	Perennial	Unnamed	DC				Culvert	N/A	
38	-Y17- Sta 12+65 Left & Right	Stream	Perennial	Unnamed	SC				Culvert	N/A	
35 / 38	-Y17- Sta 11+54 Left & Right	Stream	Perennial	Unnamed	Not ID'ed				Culvert	N/A	
40 / 41	-SR1- Sta 13+22 to 15+22 Right	Wetland	Bottomland Hardwood	Unnamed	Not ID'ed				Fill	N/A	

* List all stream and surface water impact locations regardless of jurisdiction or size.

Equalizer Pipes to be noted as a minimization of impacts.

All proposed SCMs listed must also be listed under Swales, Preformed Sour Holes and other Energy Dissipators, or Other Stormwater Control Measures.

Description of Minimization of Impacts or Mitigation



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR LINEAR ROADWAY PROJECTS

(Version 1.2; Released September 2011)

Project/TIP No.: U-3338B

County(ies): New Hanover

Page 3 of 3

Swales

Sheet No.	Station (From / To)	Stream Crossing Station	Base Width (ft)	Front Slope (H:V)	Back Slope (H:V)	Drainage Area (ac)	Recommended Treatment Length (ft)	Actual Length (ft)	Longitudinal Slope (%)	Q2 (cfs)	V2 (fps)	Q10 (cfs)	V10 (fps)	Rock Checks Used
12	-L- Sta 58+00 to 19+00 RT	N/A	0.0	3:1	3:1	0.11	11	118	0.30%	0.3	0.6	0.3	0.6	No
15 & 38	-Y8- Sta 15+62 to 16+29 LT	-Y8- Sta 18+16	0.0	3:1	3:1	0.12	12	67	1.21%	0.3	1.0	0.4	1.1	No
15 & 38	-Y8- Sta 16+29 to 16+97 LT	-Y8- Sta 18+16	0.0	3:1	3:1	0.10	10	68	0.44%	0.2	0.6	0.3	0.7	No
15 & 37	-Y8- Sta 12+33 to 13+50 LT	N/A	0.0	4:1	5:1	0.09	9	117	0.30%	0.3	0.6	0.4	0.6	No
36	-Y7A- 17+22 to 19+00 RT	-Y7A- Sta 16+83 Right	0.0	3:1	3:1	1.72	172	153	0.30%	7.0	0.8	9.0	0.9	No
37	-Y8- Sta 12+28 to 13+00 RT	N/A	0.0	4:1	5:1	0.09	9	72	0.30%	0.3	0.4	0.4	0.6	No
37	-Y8- Sta 12+33 to 13+50 LT	N/A	0.0	4:1	5:1	0.11	11	117	0.30%	0.3	0.6	0.4	0.6	No
41	SR1 Sta 16+00 to 17+17 LT	-SR1- Sta 17+22	0.0	4:1	3:1	2.50	250	117	0.85%	4.5	1.7	6.0	1.8	No
41	SR1 Sta 17+17 to 18+00 LT	-SR1- Sta 17+22	0.0	4:1	3:1	0.18	18	83	3.22%	0.3	1.4	0.4	1.5	No
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☒ YES ☐ NO Have minimum design criteria, as presented in the NCDOT Best Management Practices Toolbox, Version 1 (March 2008), been met and verified? If No, provide further explanation of why design criteria was not met.

Additional Comments

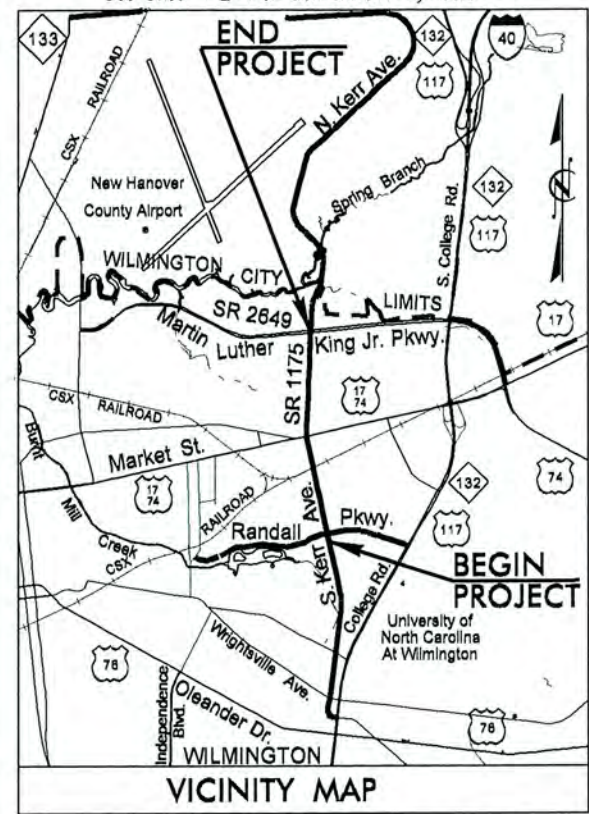
Swale on plan sheet 36, -Y7A- Sta 17+22 to 19+00 Rt which conveys 1.76 total acres, drains only 0.7 acres of new impervious area.
Swale on plan sheet 41, -SR1- Sta 16+00 to 17+17 LT which conveys 2.50 total acres, drains only 0.05 acres of new impervious area.

09/08/2014

TIP PROJECT: U-3338B

CONTRACT: C203496

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



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

Permit Drawing
Sheet 1 of 2

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-3338B	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34932.1.1	STP-1175(8)	P.E.	
34932.2.2	STP-1175(10)	RW & UTILITIES	

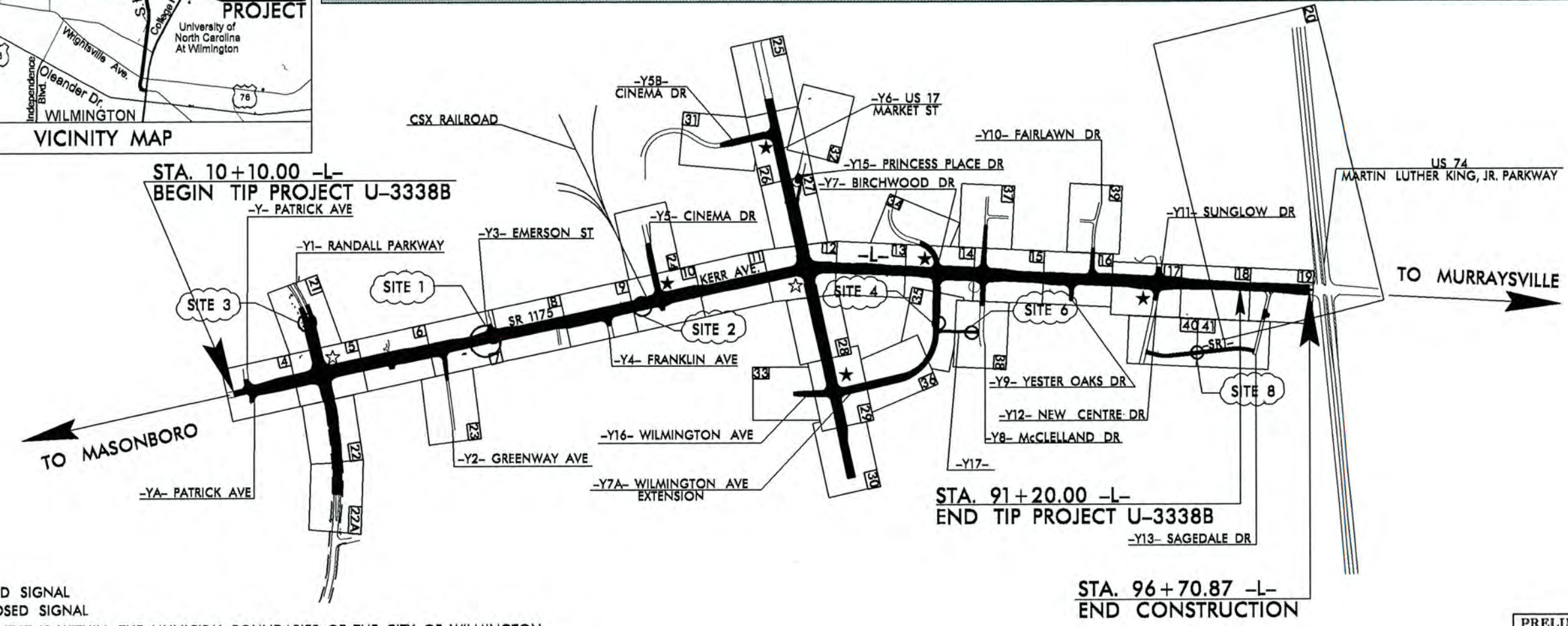
NEW HANOVER COUNTY

LOCATION: WILMINGTON - SR 1175 (KERR AVE) FROM
RANDALL PARKWAY TO SR 2649 (MARTIN
LUTHER KING, JR. PARKWAY)

TYPE OF WORK: GRADING, PAVING, RESURFACING, CURB &
GUTTER, DRAINAGE, AND SIGNALS

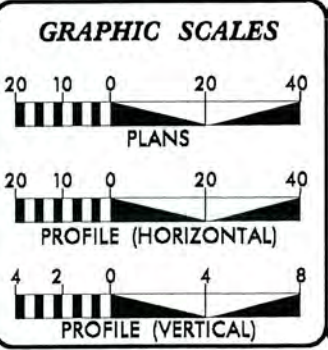
NAD 83/95

WETLAND AND SURFACE WATER IMPACTS PERMIT



- ☆ REVISED SIGNAL
- ★ PROPOSED SIGNAL

THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF WILMINGTON.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.



DESIGN DATA	
ADT 2014	= 28,350
ADT 2034	= 29,350
DHV	= 9 %
D	= 55 %
T	= 5 % *
V	= 50 MPH
FUNC. CLASS	= ARTERIAL
* (TTST 1%+ DUAL 4%) REGIONAL TIER	

PROJECT LENGTH	
LENGTH OF ROADWAY TIP PROJECT U-3338B	= 1.640 MI
TOTAL LENGTH OF TIP PROJECT U-3338B	= 1.640 MI

Prepared In the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: JUNE 29, 2012

LETTING DATE: NOVEMBER 18, 2014

BRENDA MOORE, PE
PROJECT ENGINEER

TATIA L. WHITE, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



3/2/2014
K:\Hydraulics\PERMITS_Environmental\Drawings\U3338B_hyd_perm_tbd.dgn
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\$\$\$\$\$DGN\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

3/26/2014

riovinggood
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REVISIONS

09/20/12 - RW REVISIONS: CONVERTED THE PUE TO AUE ON PARCELS 19, 25 AND 27; EXTENDED THE PUE TO PROPOSED RW AT -L- STATION 27+51.21 ON PARCEL 27; AND DELETED THE PUE RIGHT OF -Y2- STATION 11+25 AND ADJUSTED THE TCE ON PARCEL 25. - JBW
05/13/13 - RW REVISIONS: ADDED A DRIVEWAY AT -L- STA. 30+15+/- RT. ON PARCEL 29. - PJS
08/16/13 - RW REVISIONS: UPDATED PROPERTY OWNER NAME AND DEED REFERENCE ON PARCEL 19. - JBW
10/10/13 - RW REVISIONS: ADDED "DO NOT DISTURB PAYMENT" NOTE ON PARCEL 29. - TEA

*****SYSTEM TIME*****
*****DATE*****
*****TIME*****

8/17/99

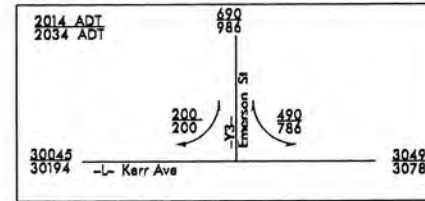
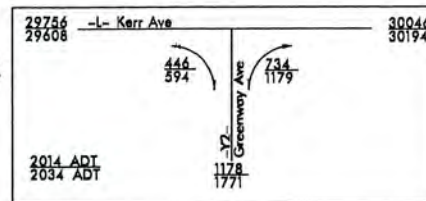
40' 0' 40'
Scale: 1" = 40'

TS TS

DENOTES TEMPORARY
IMPACTS IN SURFACE WATER

S S

DENOTES IMPACTS IN
SURFACE WATER



Permit Drawing
Sheet 3 of 20

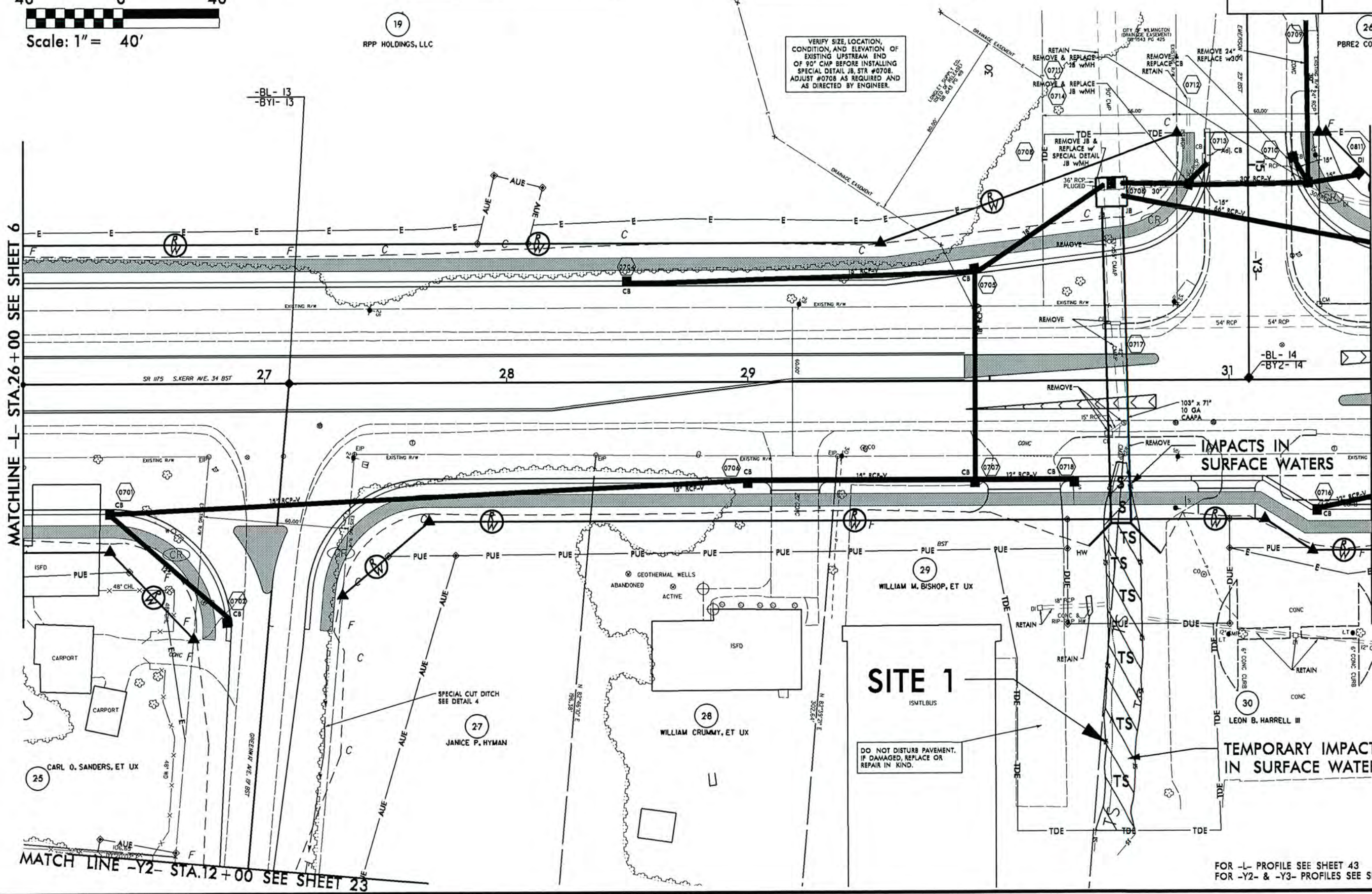
NAD 83/95

PROJECT REFERENCE NO. <u>U-3338B</u>		SHEET NO. <u>7</u>
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		

MATCHLINE -L- STA.26+00 SEE SHEET 6

MATCH LINE -Y2- STA.12+00 SEE SHEET 23

MATCHLINE -L- STA.31+60 SEE SHEET 8



FOR -L- PROFILE SEE SHEET 43
FOR -Y2- & -Y3- PROFILES SEE SHEET 53

3/26/2014

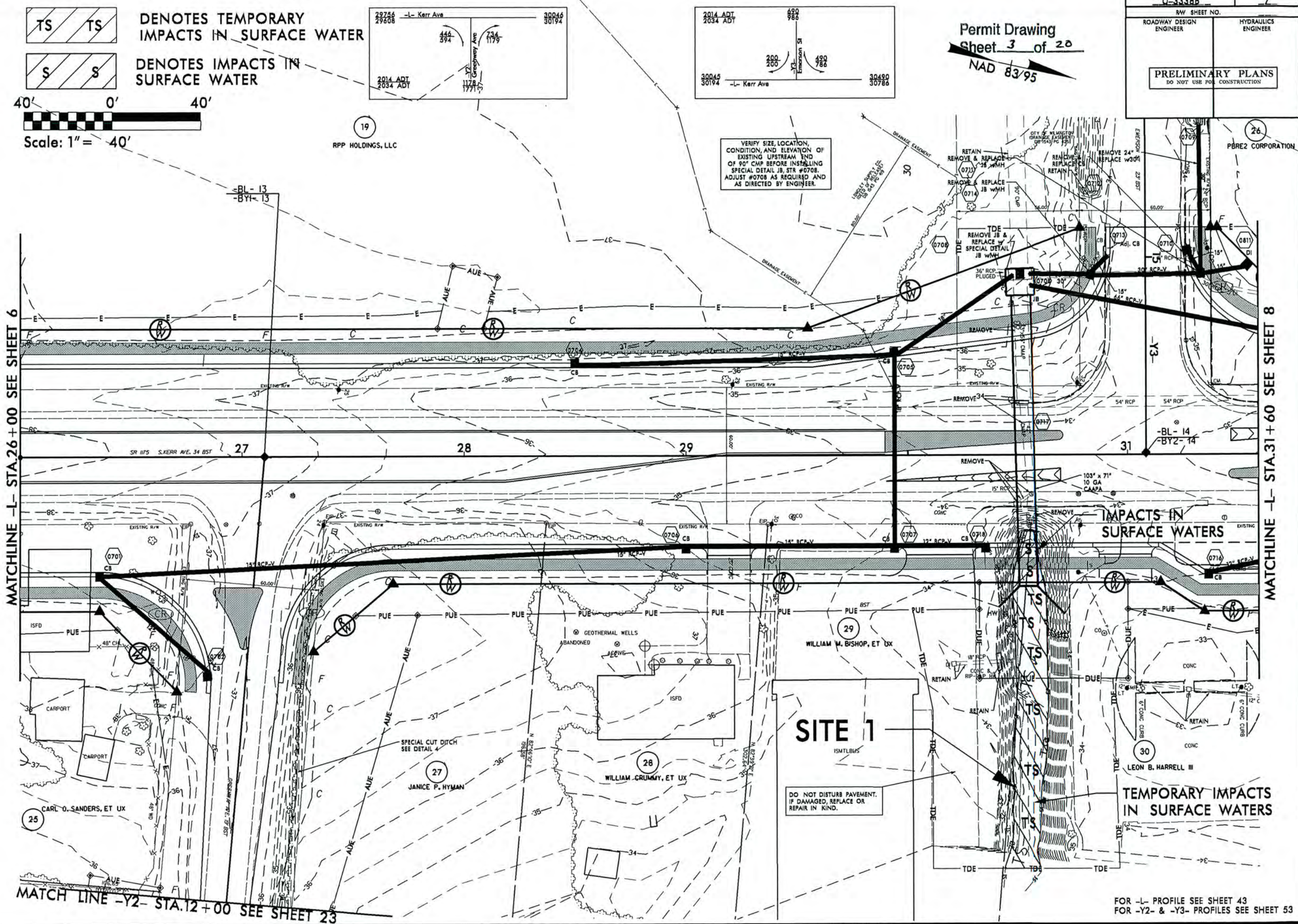
ringgood
R:\Hydraulics\PERMITS Environmental\Drawings\U-3338B Hyd prm wet psh 07.dgn

REVISIONS

09/20/12 - RW REVISIONS: CONVERTED THE PUE TO AUE ON PARCELS 19, 25 AND 27; EXTENDED THE PUE TO PROPOSED RW AT -L- STATION 27+51.21 ON PARCEL 27; AND DELETED THE PUE RIGHT OF -Y2- STATION 11+25 AND ADJUSTED THE TCE ON PARCEL 25. - JBW
05/13/13 - RW REVISIONS: ADDED A DRIVEWAY AT -L- STA 30+15+/- RT. ON PARCEL 29. - PIS
08/16/13 - RW REVISIONS: UPDATED PROPERTY OWNER NAME AND DEED REFERENCE ON PARCEL 19. - JBW
10/04/13 - RW REVISION: ADDED "DO NOT DISTURB PAYMENT" NOTE ON PARCEL 29. - TEM

*****SYSTEM TIME*****
*****DESIGN*****
*****DATE*****

8/17/99

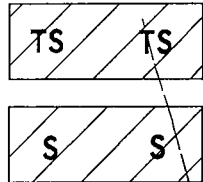


FOR -L- PROFILE SEE SHEET 43
FOR -Y2- & -Y3- PROFILES SEE SHEET 53

3/26/2014

REVISIONS

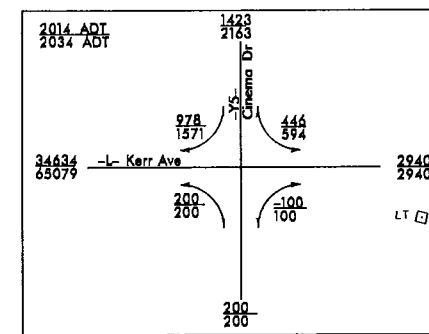
SYSTEMS



DENOTES TEMPORARY IMPACTS IN SURFACE WATER
 DENOTES IMPACTS IN SURFACE WATER

A graphic scale bar is shown. It consists of a horizontal bar divided into alternating black and white squares. The total length of the bar is labeled as 40'. The bar is divided into 10 equal segments, each representing 4 feet. The scale is indicated as 1" = 40'.

MATCHLINE -Y5- STA.14+00 SEE SHEET 24



Permit Drawing
Sheet 4 of 20
NAD 83/95

PROJECT REFERENCE NO.	SHEET NO.
<u>U-3338B</u>	<u>10</u>
RAW SHEET NO. _____	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS

DO NOT USE FOR CONSTRUCTION

NOTE:
CB #1010 LOCATED 5.6 FT
NORTH OF SAG ON -L-

MATCHLINE -L- STA.42+50 SEE SHEET 9

MATCHLINE -L- STA.48+00 SEE SHEET 11

SITE | 2

TEMPORARY IMPACTS IN SURFACE WATERS

 PROPOSED SIGNAL
 FOR -L- PROFILE SEE SHEET 45
FOR -Y5- PROFILE SEE SHEET 54

REVISIONS

LINE ON



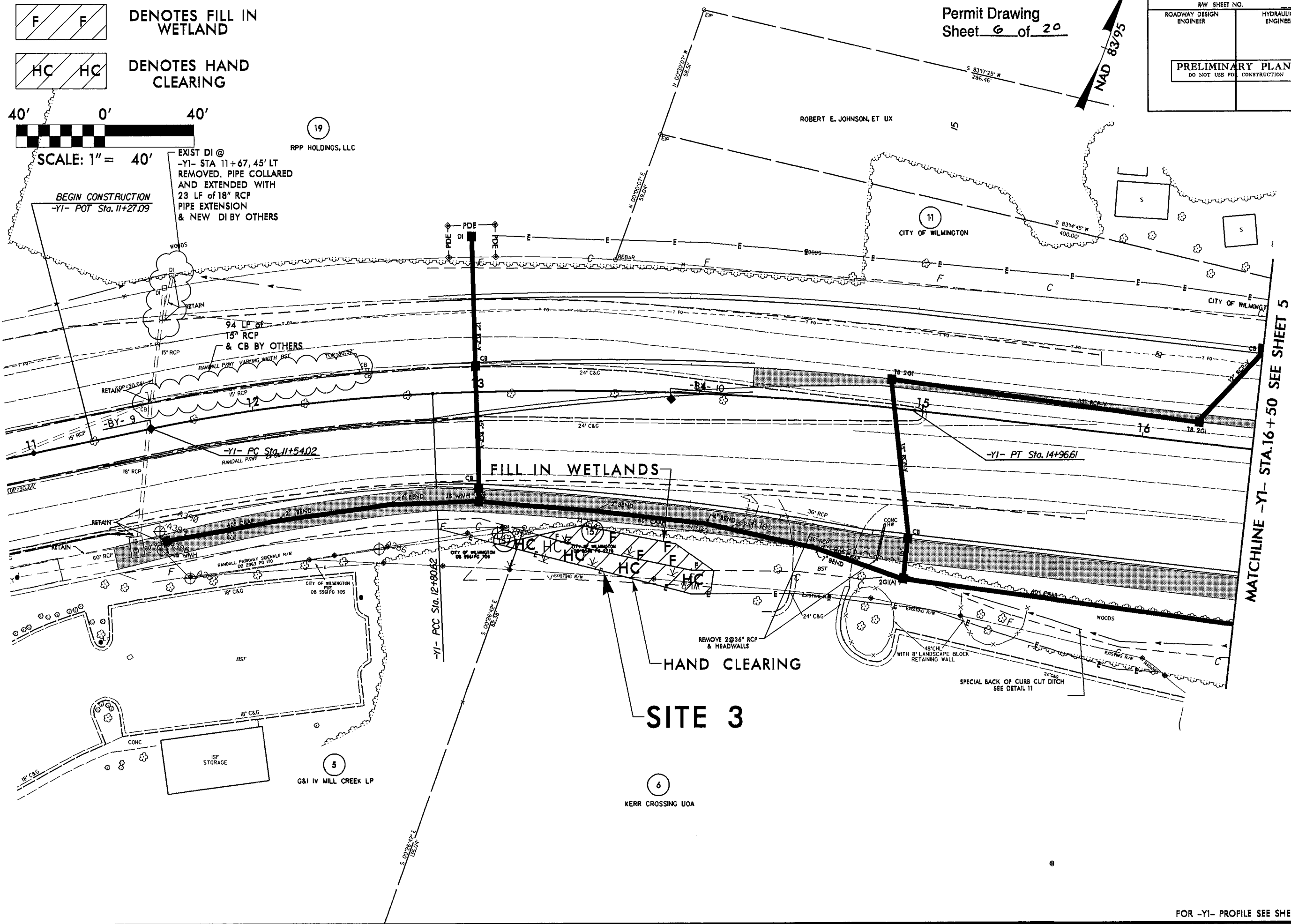
FOR -L- PROFILE SEE SHEET 45
FOR -Y5- PROFILE SEE SHEET 54

3/26/2014
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REVISIONS

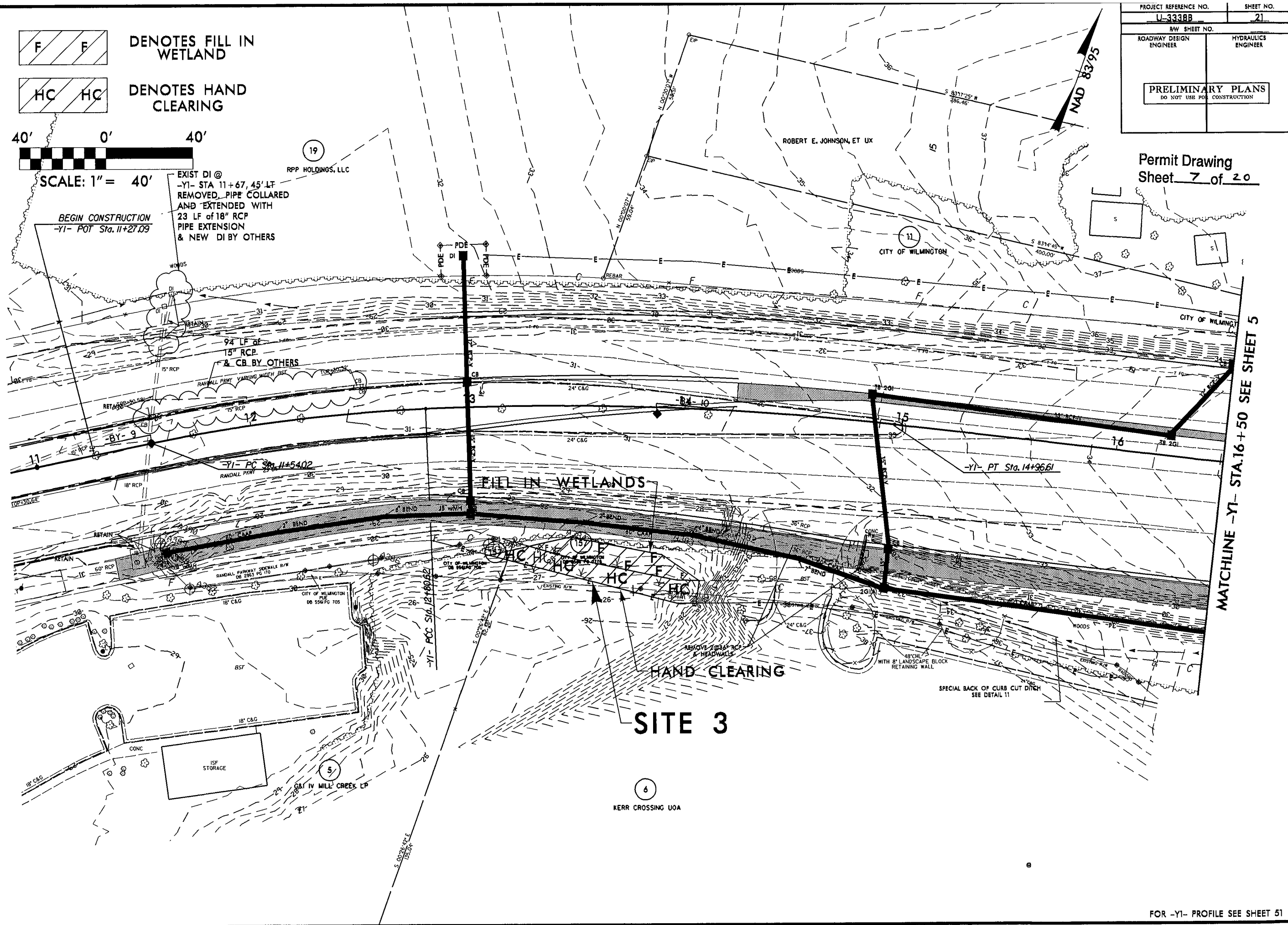
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05/13/13 - R/W REVISIONS: UPDATED PROPERTY OWNER NAMES AND DEED REFERENCES ON PARCELS 5 AND 6. - PJS
08/16/13 - R/W REVISION: UPDATED PROPERTY OWNER NAME ON PARCEL 6; UPDATED PROPERTY OWNER NAME AND DEED REFERENCE ON PARCEL 19. - JBW
01/17/14 - R/W REVISION: REMOVED A STRAY TCE FROM -YI- STA. 12+80.62 TO STA. 12+90.00 LT. ON PARCEL 19. - PJS

09/20/12 - R/W REVISIONS: CORRECTED THE TCE AT -YI- STA. 15+13 AND AT -YI- STATION 16+20.24 ON PARCEL 6. - JBW
05/13/13 - R/W REVISIONS: UPDATED PROPERTY OWNER NAMES AND DEED REFERENCES ON PARCELS 5 AND 6. - PJS
08/16/13 - R/W REVISION: UPDATED PROPERTY OWNER NAME ON PARCEL 6; UPDATED PROPERTY OWNER NAME AND DEED REFERENCE ON PARCEL 19. - JBW
01/17/14 - R/W REVISION: REMOVED A STRAY TCE FROM -YI- STA. 12+80.62 TO STA. 12+90.00 LT. ON PARCEL 19. - PJS



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REVISIONS

[illegible]

FOR -Y1- PROFILE SEE SHEET 51

4/2/2014

rlovinggood

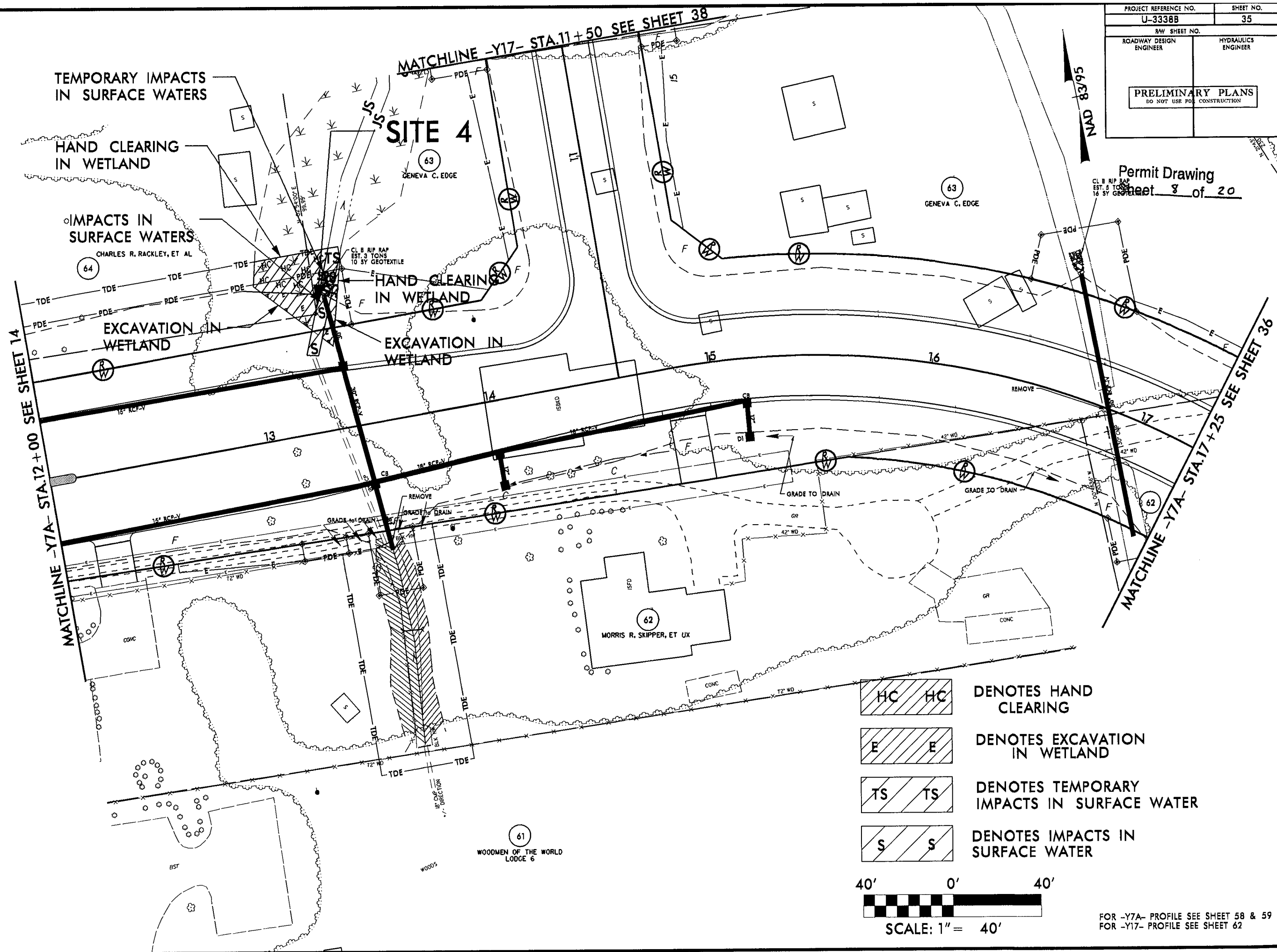
R:\Hydraulics\PERMITS Environmental\Drawings\U-3338B_Hyd_prm_wet_psh 35.dgn

REVISIONS

05/3/13 - RW REVISIONS: REVISED PROPOSED RW, PDE, TDE AND TCE ON PARCEL 62, ELIMINATED TCE FROM -Y7A- STA 13+65.00 TO STA 14+18.00 RT. ON PARCEL 62 - PIS
07/11/13 - RW REVISIONS: REVISED TDE TO PDE FROM -Y7A- STA 11+92.00 TO STA 13+10.00 LEFT ON PARCEL 64 - PIS
12/09/13 - RW REVISIONS: REVISED PDE FROM -Y7A- STA 16+35.00 TO STA 16+80.00 LT. AND TCE FROM -Y7A- STA 16+77.76 TO STA 17+00.00 LT. ON PARCEL 63 - PIS

SYTIME

8/17/99



FOR -Y7A- PROFILE SEE SHEET 58 & 59
FOR -Y17- PROFILE SEE SHEET 62

FOR -Y7A- PROFILE SEE SHEET 58 & 59
FOR -Y17- PROFILE SEE SHEET 62

3/26/2014
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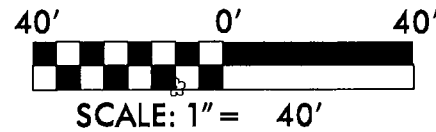
8/17/99



DENOTES TEMPORARY
IMPACTS IN SURFACE WATER



DENOTES IMPACTS IN
SURFACE WATER



73
DONALD G. BLAKE, ET UX

HOLTON PROPERTIES, LLC.

HOLTON PROPERTIES, LLC.

Permit Drawing
Sheet 10 of 20

MATCHLINE -Y8- STA.16+50 SEE SHEET 15

SPECIAL BACK
OF CURB CUT
GRASS SWALE
SEE DETAIL 9

PDE
DI
PDE
C

24" C&G
60" CONC
15" RCP-V
MIN D
CB

24" C&G
60" CONC
15" RCP-V
MIN D
CB

24" C&G
60" CONC
15" RCP-V
MIN D
CB

24" C&G
60" CONC
15" RCP-V
MIN D
CB

24" C&G
60" CONC
15" RCP-V
MIN D
CB

24" C&G
60" CONC
15" RCP-V
MIN D
CB

24" C&G
60" CONC
15" RCP-V
MIN D
CB

24" C&G
60" CONC
15" RCP-V
MIN D
CB

24" C&G
60" CONC
15" RCP-V
MIN D
CB

24" C&G
60" CONC
15" RCP-V
MIN D
CB

24" C&G
60" CONC
15" RCP-V
MIN D
CB

24" C&G
60" CONC
15" RCP-V
MIN D
CB

24" C&G
60" CONC
15" RCP-V
MIN D
CB

24" C&G
60" CONC
15" RCP-V
MIN D
CB

24" C&G
60" CONC
15" RCP-V
MIN D
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24" C&G
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24" C&G
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MIN D
CB

24" C&G
60" CONC
15" RCP-V
MIN D
CB

24" C&G
60" CONC
15" RCP-V
MIN D
CB

SITE 6

REMOVE SUFFICIENT NUMBER OF
PIPE JOINTS TO ALLOW INSTALLATION
OF RIP RAP. DO NOT INSTALL RIP RAP
WITHIN JS STREAM BOUNDARIES.

65
WILLIAM J. BUCK, ET UX

TEMPORARY
IMPACTS IN
SURFACE WATERS

IMPACTS IN
SURFACE WATERS

TEMPORARY IMPACTS
IN SURFACE WATERS

NOTE 1:
PLUG AND FILL FULL
WITH FLOWABLE FILL

CL B RIP RAP
EST. 5 TONS
16 SY GEOTEXTILE

MATCHLINE -Y17- STA.11+50 SEE SHEET 35

FOR -Y8- PROFILE SEE SHEET 60
FOR -Y17- PROFILE SEE SHEET 62

MATCHLINE -Y8- STA.16+50 SEE SHEET 15

SPECIAL BACK
OF CURB CUT
GRASS SWALE
SEE DETAIL 9

OF CURB CUT
GRASS SWALE
SEE DETAIL 9

Detail of a horizontal structural member, likely a beam or joist, showing a cross-section with internal reinforcement and a vertical support or connection point on the right.

24' C&G

157

AC-130

4' CAG 35

O' CONC 15 RCP-Y MIN-D
CB

EASEMENT 36 / 35

100

42

~~TDE~~

MENT <

7- - - - -



5117

$$\frac{u}{v}, \frac{11}{-}$$
$$\frac{1}{2} \cdot 1 = \frac{1}{2}$$

1	1
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7

SITE 6

REMOVE SUFFICIENT NUMBER OF
PIPE JOINTS TO ALLOW INSTALLATION
OF RIP RAP. DO NOT INSTALL RIP RAP
WITHIN 15' STREAM BOUNDARIES.

TEMPORARY IMPACTS IN SURFACE WATERS

IMPACTS IN SURFACE WATERS

TEMPORARY IMPACTS IN SURFACE WATERS

NOTE 1:
PLUG AND FILL FULL
WITH FLOWABLE FILL

CL B RIG RAP
EST. 5 TONS
14 EX. GEOTECH

MATCHLINE -Y17- STA.11+50 SEE SHEET 35

* FOR -Y8- PROFILE SEE SHEET 60
FOR -Y17- PROFILE SEE SHEET 62

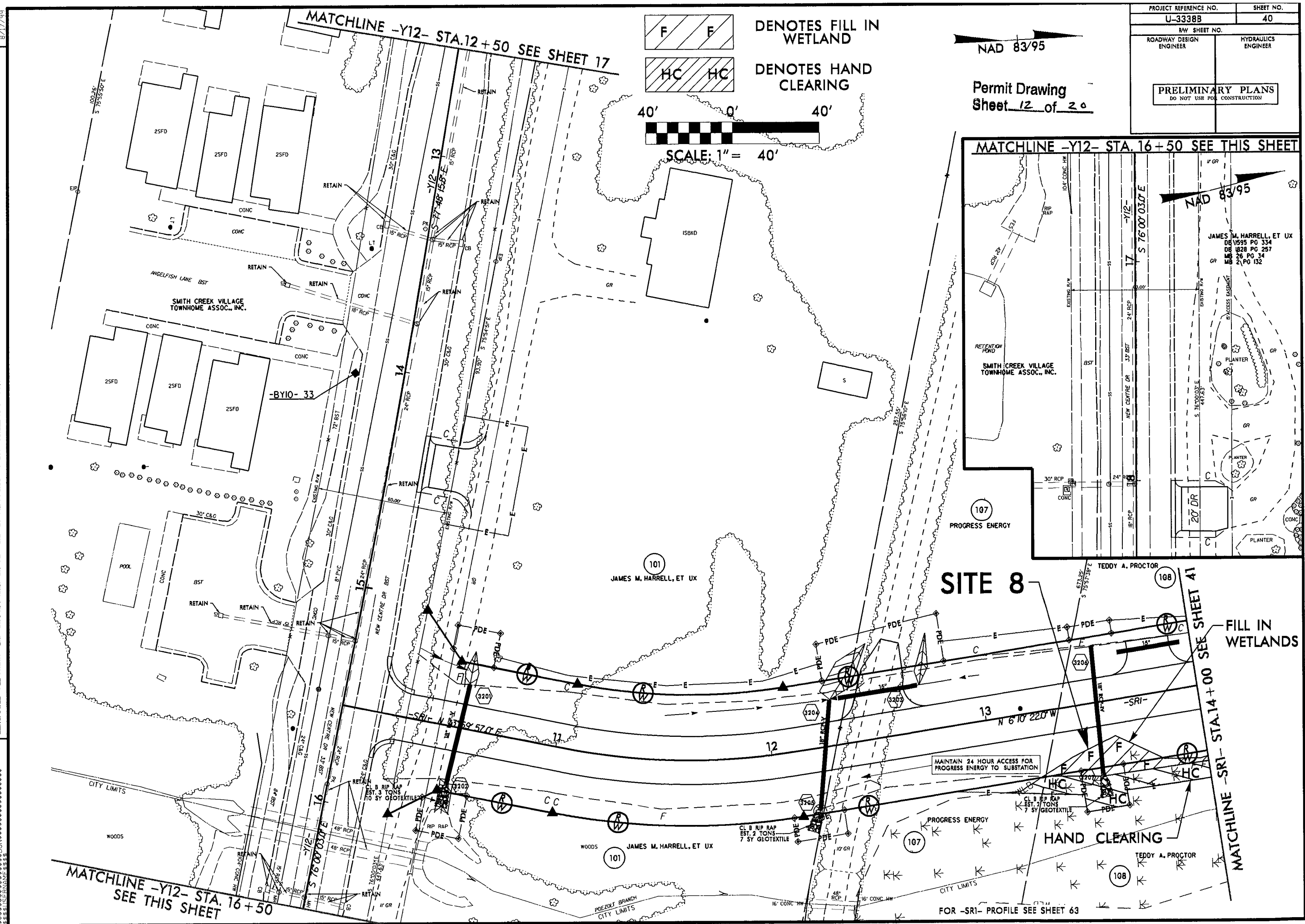
326/2014
rlvinggood
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REVISIONS

#####SYTIME#####

	REVISIONS
05/03/13	RM REVISION: ADDED A "MAINTAIN 24 HOUR ACCESS FOR PROGRESS ENERGY TO SUBSTATION" NOTE ON PARCEL 107. - PIS
08/06/13	RM REVISION: ADDED A DRIVEWAY AND A TEMPORARY CONSTRUCTION EASEMENT FROM -SR1- STA. 12+48.27 TO STA. 12+70.00 LT. ON PARCEL 107. - JBW
10/03/13	RM REVISIONS: ADDED DRIVEWAYS AT -Y12- STA. 14+40 +/- LT. AND AT -Y12- STA. 18+13 +/- LT. ON PARCEL 101; ADDED DRIVEWAY AT -SR1- STA. 13+80 +/- LT. ON PARCEL 108; ADDED DRIVEWAY AT -SR1- STA. 12+48.27 LT. TO -SR1- STA. 12+70.00 LT. ON PARCEL 107. - TEAM
11/05/13	RM REVISION: ADDED A DRIVEWAY AND A TEMPORARY CONSTRUCTION EASEMENT FROM -SR1- STA. 12+48.27 TO STA. 12+70.00 LT. ON PARCEL 107. - PIS

SYSTEM\$CNCN



REVISIONS

SYTIME\$CN\$



rlvinggood

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REVIEWS

09/20/12 - RW REVISIONS: CHANGED PARCEL NUMBER 141 TO 111; AND REMOVED PARCEL NUMBER 140. -- JBW
11/22/12 - RW REVISION: CHANGED PARCEL 142 TO PARCEL 112. -- PJS
02/27/13 - RW REVISION: ADDED DRIVEWAY CONNECTIONS TO PARCEL 110; REVISED THE POE AND TCE ON PARCEL 110; ADDED POE ON PARCEL 111. -- PJS
10/01/13 - RW REVISION: MOVED PARCEL NUMBER TO SOUTH OF PROPERTY LINE ON PARCEL 108. -- TEA

SEE SHEET 40

40' 0' 40'

SCALE: 1" = 40'

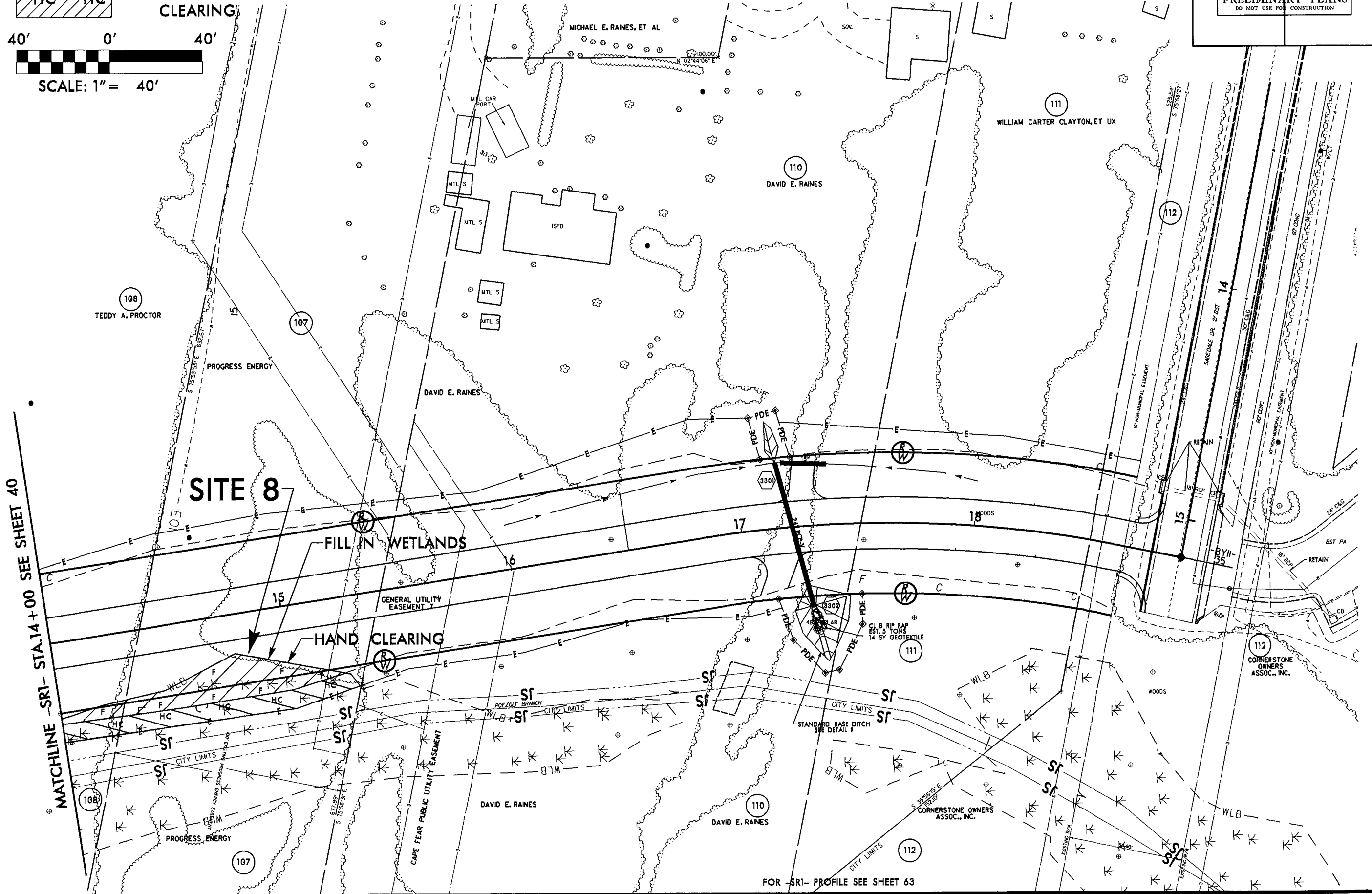
DENOTES FILL IN
WETLAND

DENOTES HAND
CLEARING

Permit Drawing
Sheet 14 of 20

NAD 83/95

PROJECT REFERENCE NO.	SHEET NO.
U-3338B	41
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



FOR ~~SR1-~~ PROFILE SEE SHEET 63

rlvinggood

R:\Hydraulics\PERMITS Environmental\Drawings\U-3338B Hyd prm wet psh 41.dgn

REVISIONS

09/20/12 - RAW REVISIONS: CHANGED PARCEL NUMBER 141 TO 111; AND REMOVED PARCEL NUMBER 140. - JBW
11/09/12 - RAW REVISION: CHANGED PARCEL 142 TO PARCEL 112 - PIS

--- SHEET 40

40' 0' 40'

SCALE: 1" = 40'

DENOTES FILL IN
WETLAND

DENOTES HAND
CLEARING

Permit Drawing
Sheet 15 of 20

PROJECT REFERENCE NO.	SHEET NO.
U-3338B	41
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

NAD 83/95

SITE 8

4-FILL IN WETLANDS

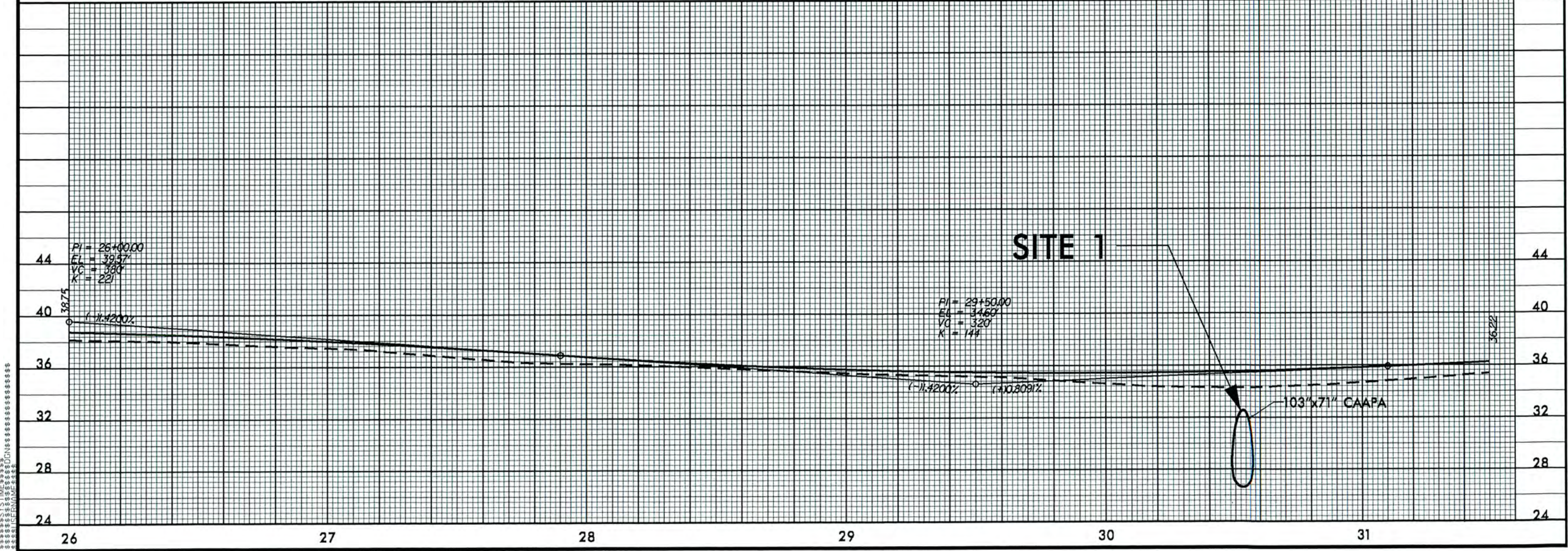
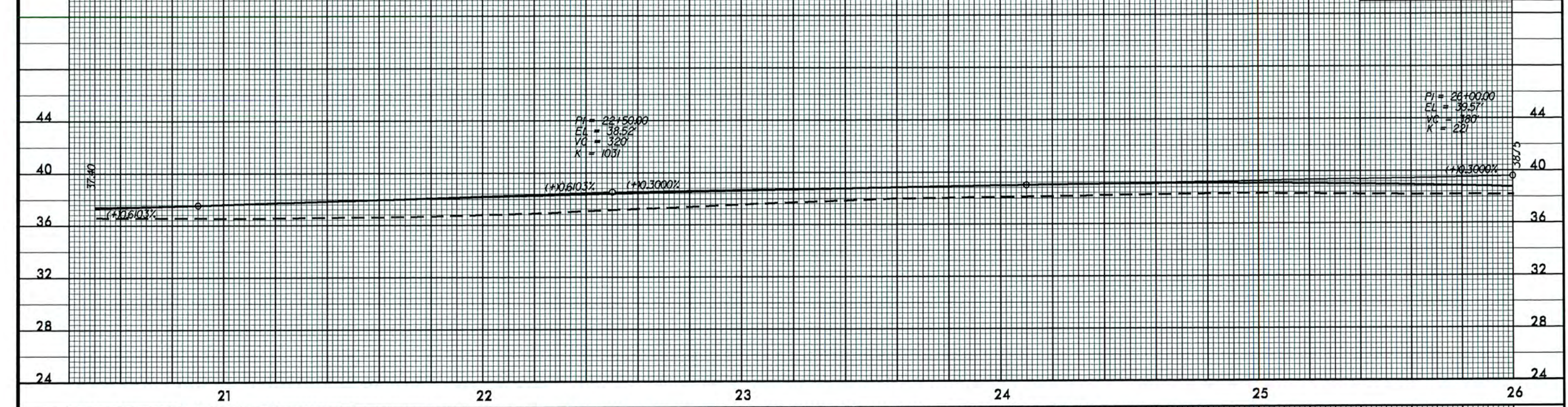
HAND CLEARING

~~FOR SR1- PROFILE SEE SHEET 63~~

5/28/99

Permit Drawing
Sheet 16 of 20

PROJECT REFERENCE NO. U-3338B		SHEET NO. 43
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		



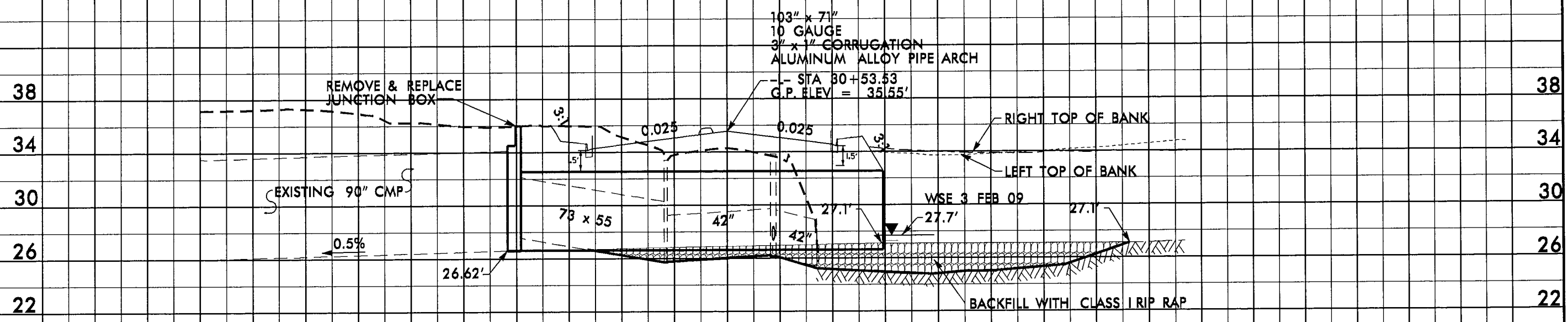
5/14/99

Permit Drawing
Sheet 17 of 20

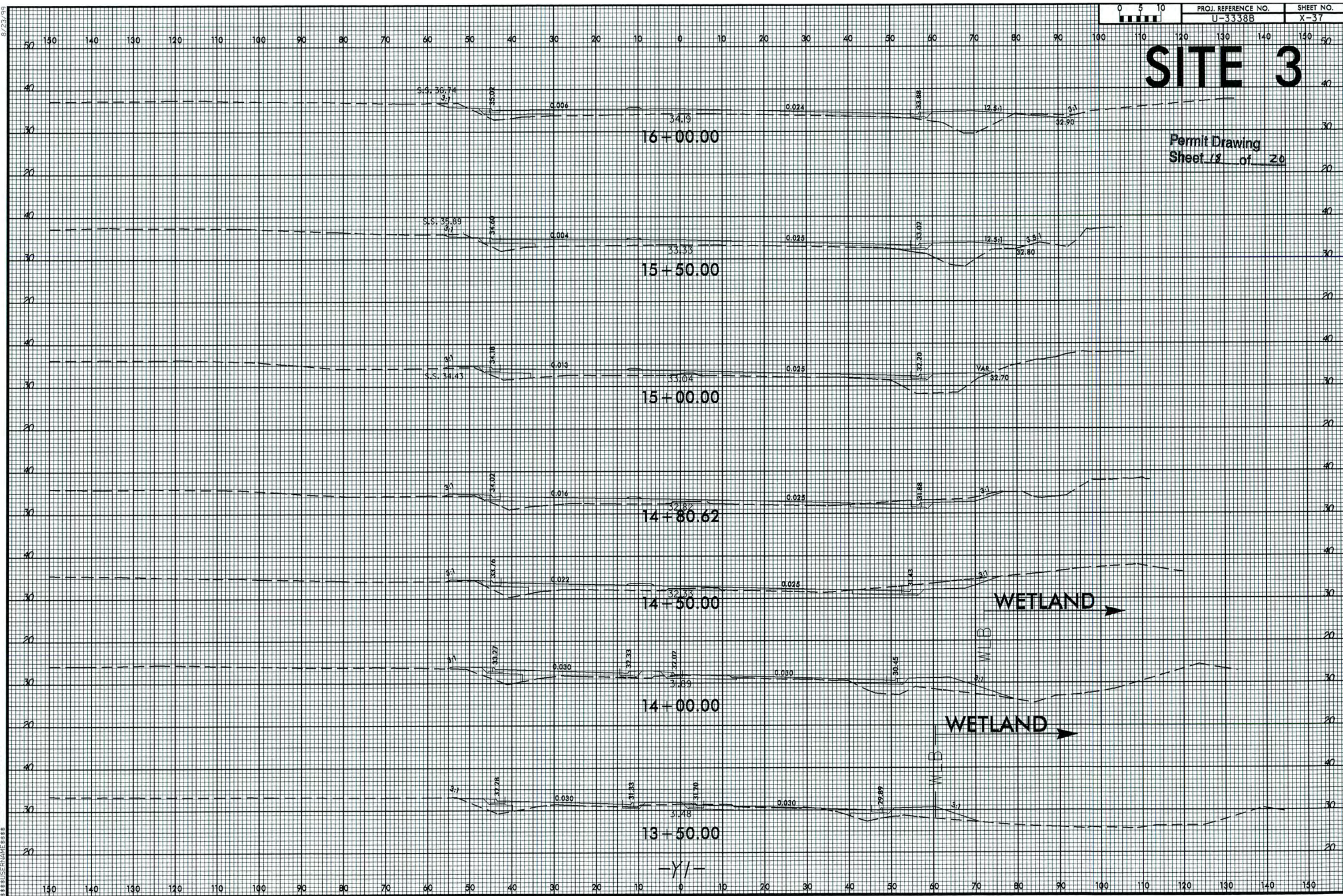
PROJECT REFERENCE NO.		SHEET NO.	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION		PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

SITE 1

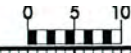
200' LT. 100' LT. 0 100' RT. 200' RT.



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8/23/98



PROJ. REFERENCE NO.
U-33388

SHEET NO.
X-84

SITE 8

Permit Drawing
Sheet 19 of 20

WETLAND →

WETLAND →

WETLAND →

14+50.00

14+00.00

13+50.00

13+00.00

12+50.00

12+43.00

-SR1-

S.S. 27.70

0.025

0.025

23.94

23.4

S.S. 18.43

S.S. 25.35

0.025

0.025

24.22

24.54

S.S. 19.12

S.S. 27.50

0.025

0.023

24.5

25.84

S.S. 22.40

S.S. 26.52

0.025

0.004

24.9

26.11

S.S. 24.22

S.S. 24.26

0.027

0.027

26.22

S.S. 25.09

3/26/2014
Revised
S:\Projects\2013\Environmental\Drawings\U-33388_Hyd_psm_wet_v02.dgn
SS TIME: 5:55:55
SS USER: JG
SS USERNAME: JG

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- Sta 30+55 Rt	103" x 71" Arch Pipe						<0.01	0.04			
2	-L- Sta 43+50 Rt	48" RCP						<0.01	<0.01			
3	-Y1- Sta 13+70 Rt	Roadway Fill	0.01	<0.01			0.02					
4	-Y7A- Sta 13+35 Lt	30" RCP		<0.01	<0.01		0.01	<0.01	<0.01	36	13	
6	-Y17- Sta 12+65 Lt/Rt	24" RCP						0.04	0.02			
8	-SRI- Sta 14+00 Rt	Roadway Fill	0.04				0.04					
TOTALS:			0.05	0.01	<0.01		0.07	0.05	0.07	36	13	

NOTE: 0.01 acre of Temporary Fill in Wetlands in the Hand Clearing areas for erosion control measures

Permit Drawing
Sheet 20 of 20

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

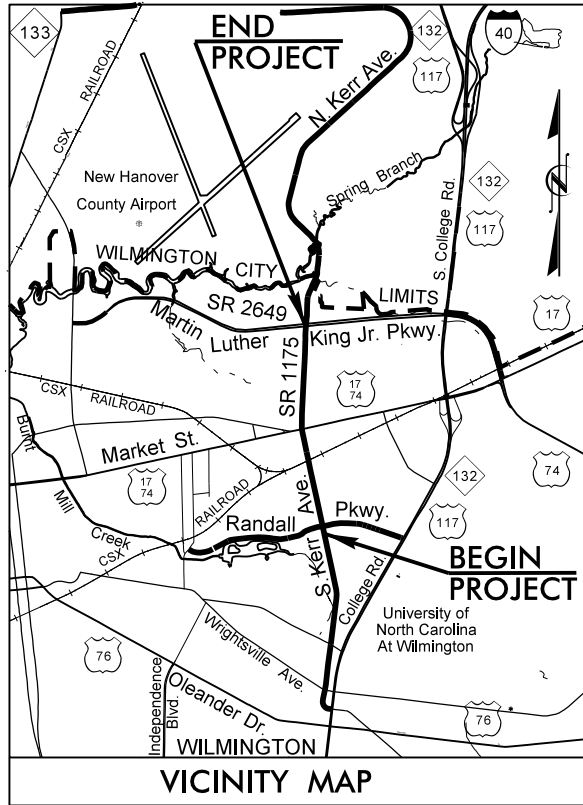
NEW HANOVER COUNTY
WBS - 34932.1.1 (U-3338B)

09/08/99

TIP PROJECT: U-3338B

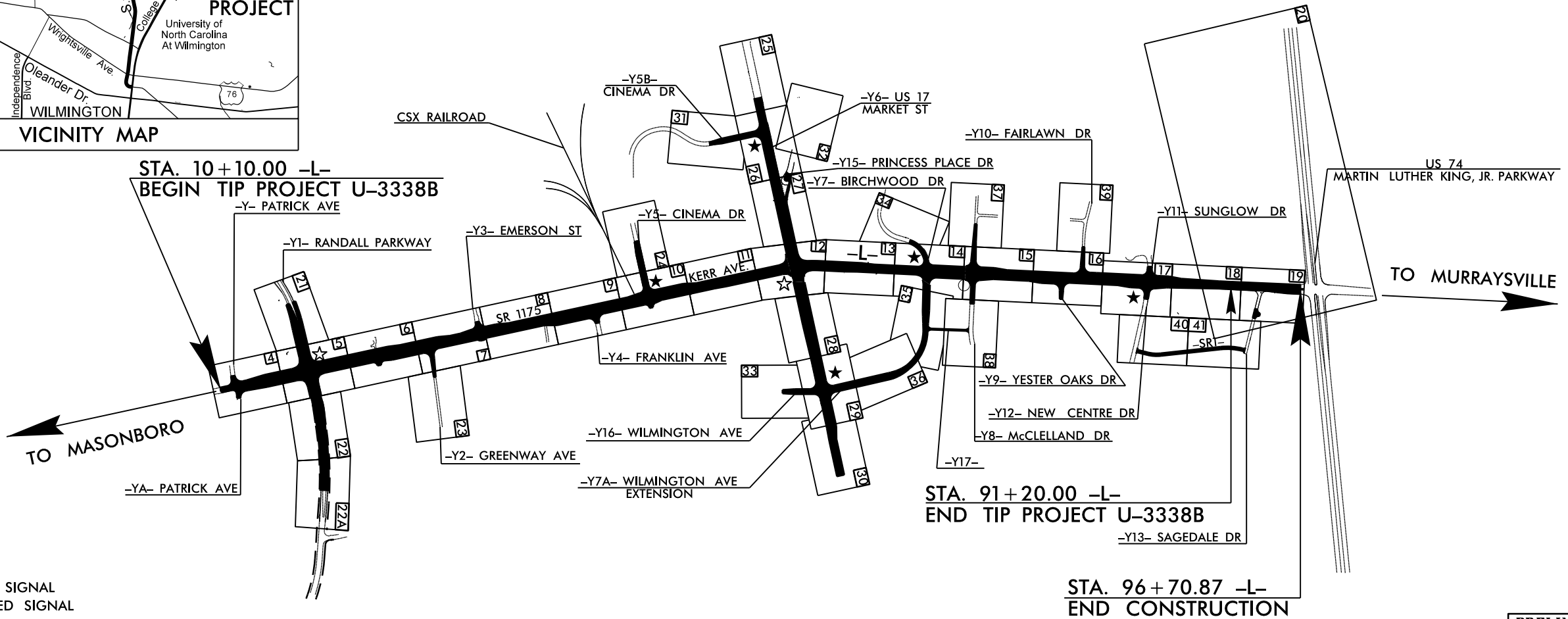
CONTRACT:

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



VICINITY MAP

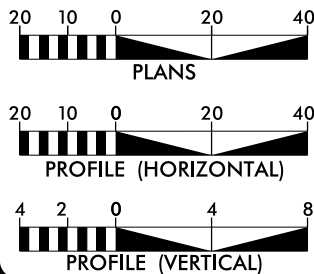
STA. 10+10.00 -L-
BEGIN TIP PROJECT U-3338B



- ☆ REVISED SIGNAL
- ★ PROPOSED SIGNAL

THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF WILMINGTON.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

GRAPHIC SCALES



DESIGN DATA

ADT 2014 = 28,350
ADT 2034 = 29,350
DHV = 9 %
D = 55 %
T = 5 % *
V = 50 MPH
FUNC. CLASS = ARTERIAL
* (TTST 1%+ DUAL 4%)
REGIONAL TIER

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT U-3338B = 1.640 MI
TOTAL LENGTH OF TIP PROJECT U-3338B = 1.640 MI

Prepared in the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JUNE 29, 2012

LETTING DATE:
NOVEMBER 18, 2014

BRENDA MOORE, PE
PROJECT ENGINEER

TATIA L. WHITE, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: P.E.

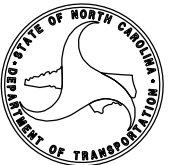
ROADWAY DESIGN
ENGINEER

SIGNATURE: P.E.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-3338B	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34932.1.1	STP-1175(8)	P.E.	
34932.2.2	STP-1175(10)	R/W & UTILITIES	

NAD 8395

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



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\$\$\$\$\$USERNAME\$\$\$\$\$

Note: Not to Scale

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

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

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

BUILDINGS AND OTHER CULTURE:

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

HYDROLOGY:

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

RAILROADS:

Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	

RIGHT OF WAY:

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

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill	
Proposed Curb Ramp	
Existing Metal Guardrail	
Proposed Guardrail	
Existing Cable Guiderail	
Proposed Cable Guiderail	
Equality Symbol	
Pavement Removal	
<i>VEGETATION:</i>	
Single Tree	
Single Shrub	
Hedge	
Woods Line	

Orchard	
Vineyard	

EXISTING STRUCTURES:

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

UTILITIES:

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

TELEPHONE:

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

WATER:

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

TV:

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

GAS:

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

SANITARY SEWER:

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

MISCELLANEOUS:

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

SURVEY CONTROL SHEET U-3338-B

PROJECT REFERENCE NO.	SHEET NO.
U-3338-B	1E
Location and Surveys	

BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
BL10	BL-10		176751.6070	2336376.3996	36.02	11+16.83	31.22 LT
BL11	BL-11		177283.2704	2336260.7555	37.05	16+60.93	31.83 LT
U33381	U3338-1		176940.5726	2333752.3135	28.77	18+56.41	2556.01 LT
BL12	BL-12		177901.0270	2336136.0069	36.54	22+91.09	23.12 LT
BL13	BL-13		178315.5055	2336069.9919	36.25	27+10.16	0.00 LT
BL14	BL-14		178704.5974	2335984.9549	34.10	31+08.43	0.84 LT
BL15	BL-15		179339.2014	2335872.6590	36.62	37+51.46	23.38 RT
BL16	BL-16		179612.7201	2335786.5225	36.80	40+37.98	2.75 LT
FRANKLIN1	NCGS FRANKLIN		179887.5296	2335751.4725	39.58	43+13.99	21.10 RT
BL17	BL-17		180082.4922	2335683.7889	39.32	45+18.85	3.83 LT
BL18	BL-18		180571.0904	2335577.4305	38.98	50+18.89	4.46 LT
KERR1	NCGS KERR		181239.1825	2335403.2979	40.46	57+03.49	43.77 LT
BL19	BL-19		181886.5648	2335493.6304	37.42	63+49.18	26.00 RT
BL20	BL-20		182247.5226	2335454.4098	36.85	67+07.81	30.63 LT
BL21	BL-21		182587.9705	2335476.6217	35.94	70+48.94	24.90 LT
BL22	BL-22		183315.8606	2335566.0821	36.16	77+80.30	29.27 RT
BL31	BL-31		183475.4431	2335513.8465	35.19	79+37.17	30.62 LT
BL23	BL-23		183978.9108	2335537.5822	32.33	84+41.20	31.25 LT
CAMA1	NCGS CAMA		183540.3786	2346038.5285	40.92	85+10.81	10478.6184 RT
BL24	BL-24		184622.0398	2335573.0594	29.94	90+85.29	26.90 LT
BL25	BL-25		184925.6892	2335576.1580	29.07	93+88.74	38.49 LT
U33383	U3338-3		185385.8906	2332347.7416	32.81	96+12.43	3281.5100 LT
U33384	U3338-4		185868.4900	2331254.2131	29.41	101+13.51	4400.5703 LT
U33385	U3338-5		185575.2836	2338177.2299	18.67	101+63.31	2528.1399 RT
U33386	U3338-6		185689.8529	2339349.6781	19.01	103+34.42	3693.6788 RT
ILMA1	NCGS ILM A		189756.6495	2332699.6837	26.29	OUTSIDE PROJECT LIMITS	
ILMB1	NCGS ILM B		189210.8582	2335309.7000	8.48	OUTSIDE PROJECT LIMITS	

BL	POINT	DESC.	NORTH	EAST	ELEVATION	Y STATION	OFFSET
BL10	BL-10		176751.6070	2336376.3996	36.02	11+61.16	3.73 RT

BL	POINT	DESC.	NORTH	EAST	ELEVATION	YA STATION	OFFSET
BL10	BL-10		176751.6070	2336376.3996	36.02	OUTSIDE PROJECT LIMITS	

BY	POINT	DESC.	NORTH	EAST	ELEVATION	Y1 STATION	OFFSET
U33382	U3338-2		176815.3425	2334862.2876	32.97	OUTSIDE PROJECT LIMITS	
BY8	BY-8		176968.1864	2335246.6047	30.85	OUTSIDE PROJECT LIMITS	
BY9	BY-9		177147.7303	2335625.2314	29.96	11+53.72	0.00
BY10	BY-10		177239.0001	2335839.3391	30.68	13+87.32	3.04 RT
BY11	BY-11		177283.2704	2336260.7555	37.01	18+07.93	61.62 RT
BY12	BY-12		177410.9902	2336536.0185	37.38	21+05.26	0.42 RT
BY13	BY-13		177456.9654	2336819.5654	38.56	23+92.70	0.77 RT
BY14	BY-14		177466.5947	2337325.7463	39.11	28+99.76	0.00

BY1	POINT	DESC.	NORTH	EAST	ELEVATION	Y2 STATION	OFFSET
BY113	BY1-13		178315.5055	2336069.9919	36.24	10+00.00	0.00 RT
BY116	BY1-16		178448.8101	2337049.3797	38.10	OUTSIDE PROJECT LIMITS	

BY2	POINT	DESC.	NORTH	EAST	ELEVATION	Y3 STATION	OFFSET
BY217	BY2-17		178396.7494	2334570.6595	35.00	OUTSIDE PROJECT LIMITS	
BY214	BY2-14		178704.5974	2335984.9549	34.10	15+87.33	0.00

BY3	POINT	DESC.	NORTH	EAST	ELEVATION	Y4 STATION	OFFSET
BY316	BY3-16		179612.7201	2335786.5225	36.79	OUTSIDE PROJECT LIMITS	
BY318	BY3-18		179744.5968	2336332.9834	39.37	OUTSIDE PROJECT LIMITS	

BY4	POINT	DESC.	NORTH	EAST	ELEVATION	Y5 STATION	OFFSET
BY419	BY4-19		179916.2760	2335115.8837	39.02	10+00.00	0.00
BY417	BY4-17		180082.4922	2335683.7889	39.31	15+90.45	38.83 LT

BY5	POINT	DESC.	NORTH	EAST	ELEVATION	Y6 STATION	OFFSET
BY521	BY5-21		181012.9273	2334380.9279	39.80	OUTSIDE PROJECT LIMITS	
BY522	BY5-22		181116.1538	2334898.0723	40.49	15+07.60	34.71 LT
AKERR1	NCGS KERR		181239.1825	2335403.2979	40.46	20+27.44	47.11 LT
BY523	BY5-23		181348.0224	2335906.5590	40.88	25+42.34	46.06 LT
BY524	BY5-24		181461.3014	2336441.2464	41.33	30+88.88	42.65 LT

BY6	POINT	DESC.	NORTH	EAST	ELEVATION	Y7 STATION	OFFSET
BY625	BY6-25		182142.7349	2335226.1642	36.89	11+26.07	30.97 LT
BY620	BY6-20		182247.5226	2335454.4098	36.84	13+73.53	0.52 RT

BY7	POINT	DESC.	NORTH	EAST	ELEVATION	Y8 STATION	OFFSET
BY726	BY7-26		182637.3357	2335042.5902	35.96	10+00.00	0.00
BY721	BY7-21		182587.9705	2335476.6217	35.94	14+35.92	28.21 RT
BY728	BY7-28		182575.8696	2335896.7371	36.19	18+56.13	19.87 RT

BY8	POINT	DESC.	NORTH	EAST	ELEVATION	Y9 STATION	OFFSET
BY822	BY8-22		183315.8606	2335566.0821	36.15	10+29.27	0.00
BY829	BY8-29		183306.0524	2335771.1008	34.66	12+34.52	0.00

BY9	POINT	DESC.	NORTH	EAST	ELEVATION	Y10 STATION	OFFSET
BY930	BY9-30		183496.3650	2335084.2294	33.86	OUTSIDE PROJECT LIMITS	
BY931	BY9-31		183475.4431	2335513.8465	35.19	13+69.50	0.00 LT

BY10	POINT	DESC.	NORTH	EAST	ELEVATION	Y11 STATION	OFFSET
BY1032	BY10-32		183993.9434	2335344.2818	30.56	11+53.30	0.01 LT
BY1023	BY10-23		183978.9108	2335537.5822	32.30	13+52.50	23.63 RT
BY1033	BY10-33		183906.8450	2335962.6323	30.55	OUTSIDE PROJECT LIMITS	

BY10	POINT	DESC.	NORTH	EAST	ELEVATION	Y12 STATION	OFFSET
BY1032	BY10-32		183993.9434	2335344.2818	30.56	OUTSIDE PROJECT LIMITS	
BY1023	BY10-23		183978.9108	2335537.5822	32.30	OUTSIDE PROJECT LIMITS	
BY1033	BY10-33		183906.8450	2335962.6323	30.55	14+04.37	22.57 RT

BY11	POINT	DESC.	NORTH	EAST	ELEVATION	Y13 STATION	OFFSET
BY1125	BY11-25		184925.6892	2335576.1580	29.07	OUTSIDE PROJECT LIMITS	
BY1134	BY11-34		184887.9548	2335660.9262	27.55	10+48.94	0.00
BY1135	BY11-35		184775.0941	2336114.4358	25.83	15+16.28	0.00

BENCHMARKS
BL10 ELEVATION + 36.02
N 176752 E 2336376
L STATION 5+00 0 RIGHT
CONCRETE MONUMENT WITH REBAR
.....
BL11 ELEVATION + 37.05
N 177283 E 2336261
L STATION 10+44 0 RIGHT
REBAR & CAP
.....
BL12 ELEVATION + 36.54
N 177981 E 2336136
L STATION 16+74 0 RIGHT
REBAR & CAP
.....
BL13 ELEVATION + 36.25
N 178316 E 2336070
L STATION 20+94 0 RIGHT
CONCRETE MONUMENT WITH BRASS CAP
.....
BL14 ELEVATION + 34.10
N 178705 E 2335985
L STATION 29+81 0 RIGHT
CONCRETE MONUMENT WITH REBAR
.....
BL15 ELEVATION + 36.62
N 179338 E 2335873
L STATION 36+25 0 RIGHT
REBAR & CAP
.....
BL16 ELEVATION + 36.80
N 179613 E 2335787
L STATION 34+23 0 RIGHT
CONCRETE MONUMENT WITH BRASS CAP
.....
BL17 ELEVATION + 39.32
N 180082 E 2335684
L STATION 39+07 0 RIGHT
CONCRETE MONUMENT WITH BRASS CAP
.....
BL18 ELEVATION + 38.98
N 180571 E 2335577
L STATION 48+92 0 RIGHT
CONCRETE MONUMENT WITH BRASS CAP
.....
BL19 ELEVATION + 37.42
N 181887 E 2335494
L STATION 57+51 0 RIGHT
REBAR & CAP
.....
BL20 ELEVATION + 36.85
N 182248 E 2335454
L STATION 61+14 0 RIGHT
CONCRETE MONUMENT WITH REBAR
.....
BL21 ELEVATION + 35.94
N 182588 E 2335477
L STATION 64+55 0 RIGHT
REBAR & CAP
.....
BL22 ELEVATION + 36.16
N 183316 E 2335566
L STATION 71+89 0 RIGHT
CONCRETE MONUMENT WITH REBAR
.....
BL23 ELEVATION + 32.33
N 183979 E 2335538
L STATION 19+34 0 RIGHT
REBAR & CAP
.....
BY419 ELEVATION + 39.02
N 179916 E 2335116
Y1 STATION 10+00
Y5 STATION 10+00 0 RIGHT
CONCRETE MONUMENT WITH REBAR
.....

BENCHMARKS
BL24 ELEVATION + 29.94
N 184622 E 2335573
L STATION 85+05 0 RIGHT
REBAR & CAP
.....
BL25 ELEVATION + 29.07
N 184926 E 2335576
L STATION 12+35 0 RIGHT
REBAR & CAP
.....
BL31 ELEVATION + 35.19
N 183475 E 2335514
L STATION 11+98 0 RIGHT
CONCRETE MONUMENT WITH REBAR
.....
BL31 ELEVATION + 35.19
N 183475 E 2335514
L STATION 11+98 0 RIGHT
CONCRETE MONUMENT WITH REBAR
.....
FRANKLIN1 ELEVATION + 39.58
N 179888 E 2335751
L STATION 41+88 0 RIGHT
NCGS MONUMENT 'FRANKLIN'
.....
KERR1 ELEVATION + 40.46
N 181239 E 2335403
L STATION 55+82 0 RIGHT
NCGS MONUMENT 'KERR'
.....
BY116 ELEVATION + 38.10
N 178441 E 2337049
Y2 STATION 16+58
N 82° 42' 32.7" E DIST 329.72
CONCRETE MONUMENT WITH IRON PIPE
.....
BY9 ELEVATION + 30.85
N 176968 E 2335247
Y1 STATION 10+00
S 68° 07' 47.7" W DIST 266.69
CONCRETE MONUMENT WITH REBAR
.....
BY9 ELEVATION + 29.96
N 177148 E 2335625
Y1 STATION 11+54 0 RIGHT
CONCRETE MONUMENT WITH REBAR
.....
BY10 ELEVATION + 30.68
N 177239 E 2335839
Y1 STATION 13+87 3 RIGHT
CONCRETE MONUMENT WITH REBAR
.....
BY12 ELEVATION + 37.38
N 177411 E 2336536
Y1 STATION 21+05 0 RIGHT
CONCRETE MONUMENT WITH REBAR
.....
BY14 ELEVATION + 39.11
N 177467 E 2337326
Y1 STATION 29+00 0 RIGHT
CONCRETE MONUMENT WITH REBAR
.....
U33382 ELEVATION + 32.97
N 176815 E 2334862
Y1 STATION 10+00
S 68° 14' 26.6" W DIST 680.28
NCDOT OPS MONUMENT REBAR & CAP
.....
BY217 ELEVATION + 35.00
N 178397 E 2334571
Y3 STATION 10+00
S 77° 43' 12.2" W DIST 860.09
NCDOT OPS MONUMENT WITH IRON PIN
.....
BY419 ELEVATION + 39.02
N 176941 E 2335752
Y1 STATION 10+00
S 85° 49' 52.3" W DIST 1746.40
CONCRETE MONUMENT WITH BRASS CAP
.....

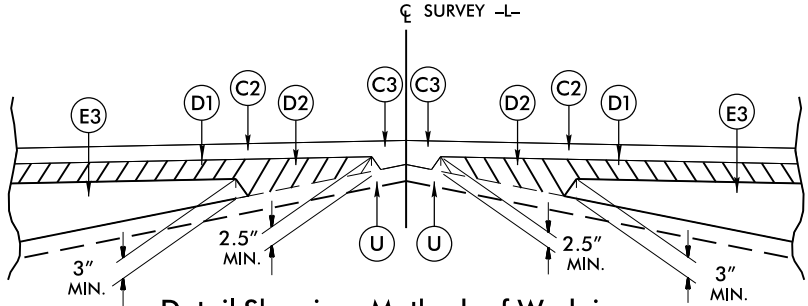
BENCHMARKS
BY726 ELEVATION + 35.96
N 182637 E 2335043
Y8 STATION 10+00 0 RIGHT
CONCRETE MONUMENT WITH REBAR
.....
BY829 ELEVATION + 34.66
N 183306 E 2335771
Y9 STATION 12+35 0 RIGHT
CONCRETE MONUMENT WITH REBAR
.....
BY938 ELEVATION + 33.86
N 183496 E 2335084
Y10 STATION 10+00
N 87° 12' 43.1" W DIST 60.63
CONCRETE MONUMENT WITH REBAR
.....
BY1134 ELEVATION + 27.55
N 184888 E 2335661
Y13 STATION 18+49 0 RIGHT
CONCRETE MONUMENT WITH LARGE REBAR
.....
BY1135 ELEVATION + 25.83
N 184775 E 2336114
Y13 STATION 15+16 0 RIGHT
CONCRETE MONUMENT WITH LARGE REBAR
.....
CAMA1 ELEVATION + 40.92
N 183540 E 2346039
L STATION 85+11 10479 RIGHT
NCGS MONUMENT 'CAMA'
.....
FRANKLIN1 ELEVATION + 39.58
N 179888 E 2335751
L STATION 43+14 21 RIGHT
NCGS MONUMENT 'FRANKLIN'
.....
ILMA1 ELEVATION + 26.29
N 189757 E 2332700
L STATION 116+95
N 51° 43' 05.7" W DIST 4194.30
NCGS MONUMENT 'ILM A'
.....
ILMB1 ELEVATION + 8.48
N 189211 E 2335310
L STATION 116+95
N 18° 23' 19.8" W DIST 2163.15
NCGS MONUMENT 'ILM B'
.....
U33383 ELEVATION + 32.81
N 185386 E 2332348
L STATION 96+12 3282 LEFT
NCDOT OPS MONUMENT REBAR & CAP
.....
U33384 ELEVATION + 29.41
N 185860 E 2331254
L STATION 101+14 4401 LEFT
NCDOT OPS MONUMENT REBAR & CAP
.....
U33385 ELEVATION + 18.67
N 185575 E 2338177
L STATION 101+63 2528 RIGHT
NCDOT OPS MONUMENT REBAR & CAP
.....
U33386 ELEVATION + 19.01
N 185690 E 2339350
L STATION 103+34 3694 RIGHT
NCDOT OPS MONUMENT REBAR & CAP
.....
U33381 ELEVATION + 28.77
N 176941 E 2335752
Y1 STATION 10+00
S 85° 49' 52.3" W DIST 1746.4

6/2/99

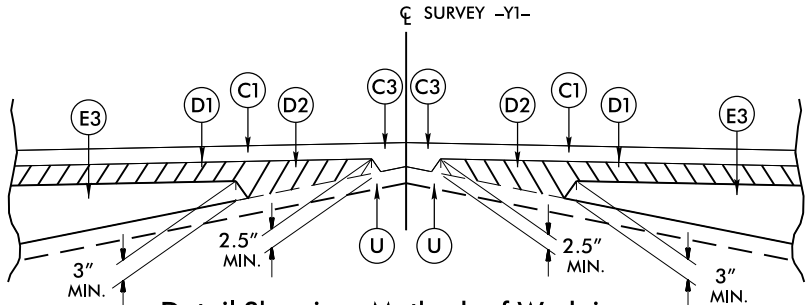
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PAVEMENT SCHEDULE (FINAL PAVEMENT DESIGN)	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 1½" IN DEPTH OR GREATER THAN 2" IN DEPTH.
C4	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C5	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C6	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 1½" IN DEPTH OR GREATER THAN 2" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH.
D3	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D4	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E3	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH.
E4	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E5	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH.
R1	1'-6" CONCRETE CURB AND GUTTER.
R2	2'-6" CONCRETE CURB AND GUTTER.
R3	EXPRESSWAY CURB AND GUTTER
R4	5" MONOLITHIC ISLAND (KEYED IN)
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W	VARIABLE DEPTH ASPHALT PAVEMENT. (SEE WEDGING DETAIL)

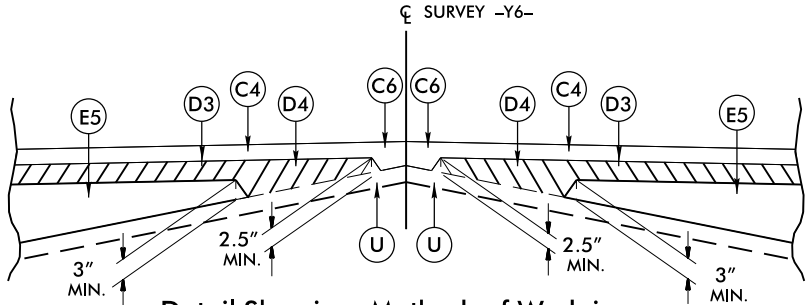
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



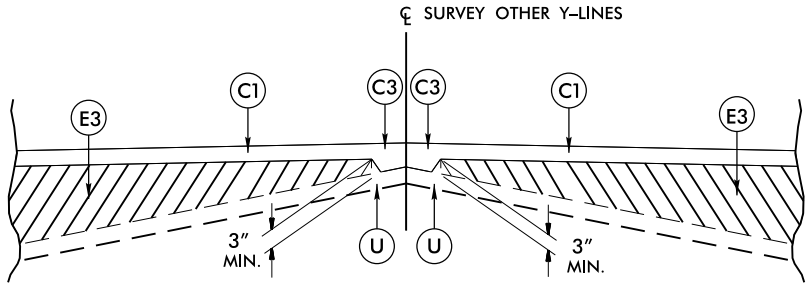
Detail Showing Method of Wedging



Detail Showing Method of Wedging



Detail Showing Method of Wedging

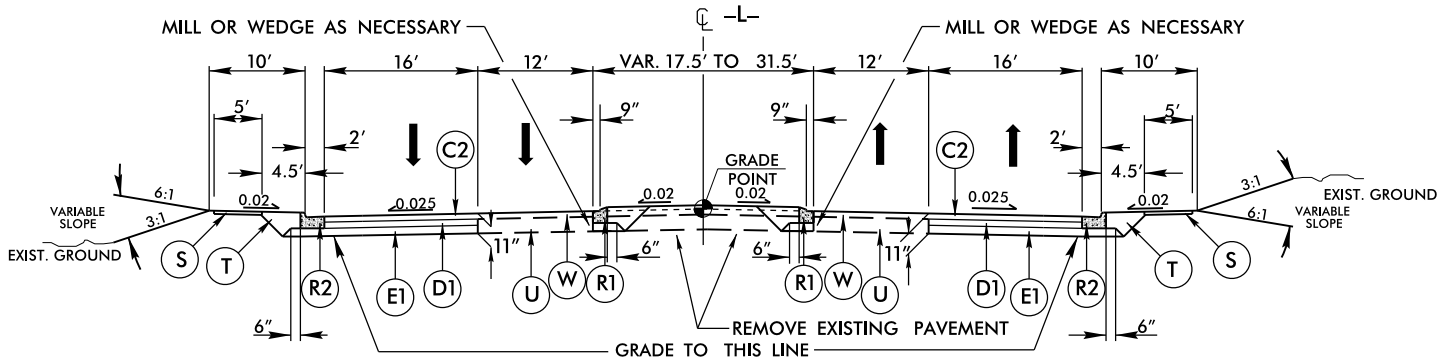


Detail Showing Method of Wedging

PROJECT REFERENCE NO.		SHEET NO.
U-3338B		2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		

PAVEMENT SCHEDULE (FINAL PAVEMENT DESIGN)	
C1	1½" S9.5B
C2	3" S9.5B
C3	VAR. S9.5B
C4	1½" S9.5C
C5	3" S9.5C
C6	VAR. S9.5C
D1	4" I19.0B
D2	VAR. I19.0B
D3	4" I19.0C
D4	VAR. I19.0C
E1	4" B25.0B
E2	5" B25.0B
E3	VAR. B25.0B
E4	4" B25.0C
E5	VAR. B25.0C
R1	1'-6" C & G
R2	2'-6" C & G
R3	EXPRESSWAY C & G
R4	5" MONO. ISLAND (KEYED IN)
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
W	WEDGING

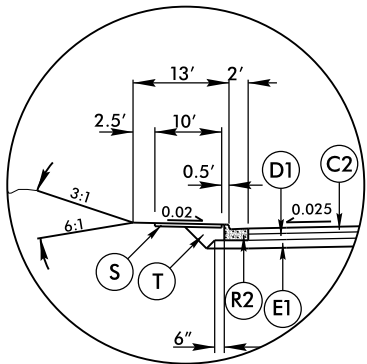
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



TYPICAL SECTION NO. 1

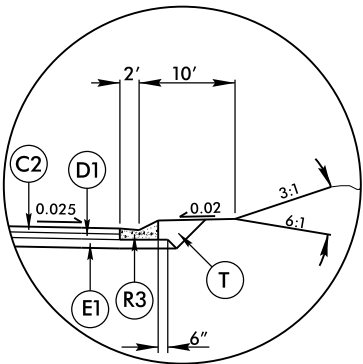
USE TYPICAL SECTION NO. 1

-L- STA. 10+10.00 TO -L- STA. 13+50.00
-L- STA. 18+50.00 TO -L- STA. 50+00.00
-L- STA. 53+00.00 TO -L- STA. 61+50.00
-L- STA. 64+50.00 TO -L- STA. 96+70.87



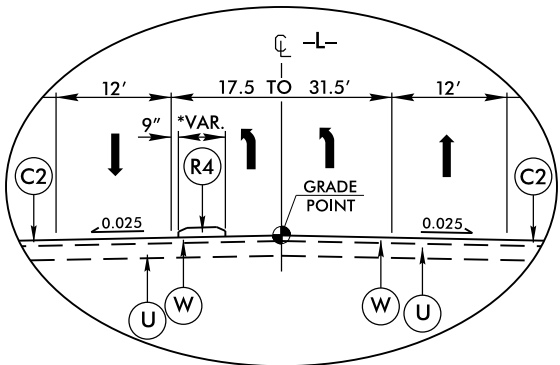
INSET A

USE WITH TYPICAL SECTION NO. 1 & NO. 2
-L- STA. 11+50.00 TO -L- STA. 16+50.00 LT.



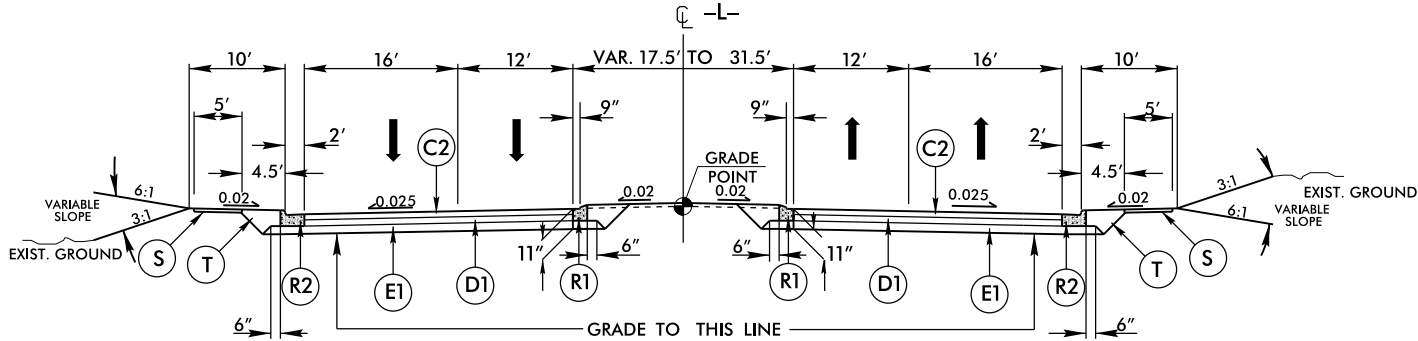
INSET B

USE WITH TYPICAL SECTION NO. 1
-L- STA. 86+75.00 TO -L- STA. 87+35.00 RT.
-L- STA. 88+90.00 TO -L- STA. 89+50.00 RT.
-L- STA. 90+00.00 TO -L- STA. 90+60.00 LT.



INSET C

USE WITH TYPICAL SECTION NO. 1 & NO. 2
*SEE PLANS FOR WIDTH AND LOCATION
-L- STA. 13+42.00 TO -L- STA. 16+74.92
-L- STA. 17+71.35 TO -L- STA. 23+90.71
-L- STA. 29+89.67 TO -L- STA. 30+70.28
-L- STA. 31+46.45 TO -L- STA. 32+27.11
-L- STA. 37+95.17 TO -L- STA. 44+41.97
-L- STA. 45+18.10 TO -L- STA. 55+84.36
-L- STA. 57+41.62 TO -L- STA. 66+46.00
-L- STA. 67+55.54 TO -L- STA. 71+27.92
-L- STA. 83+43.90 TO -L- STA. 84+24.55
-L- STA. 85+09.17 TO -L- STA. 96+70.87



TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2

-L- STA. 13+50.00 TO -L- STA. 18+50.00
-L- STA. 50+00.00 TO -L- STA. 53+00.00
-L- STA. 61+50.00 TO -L- STA. 64+50.00

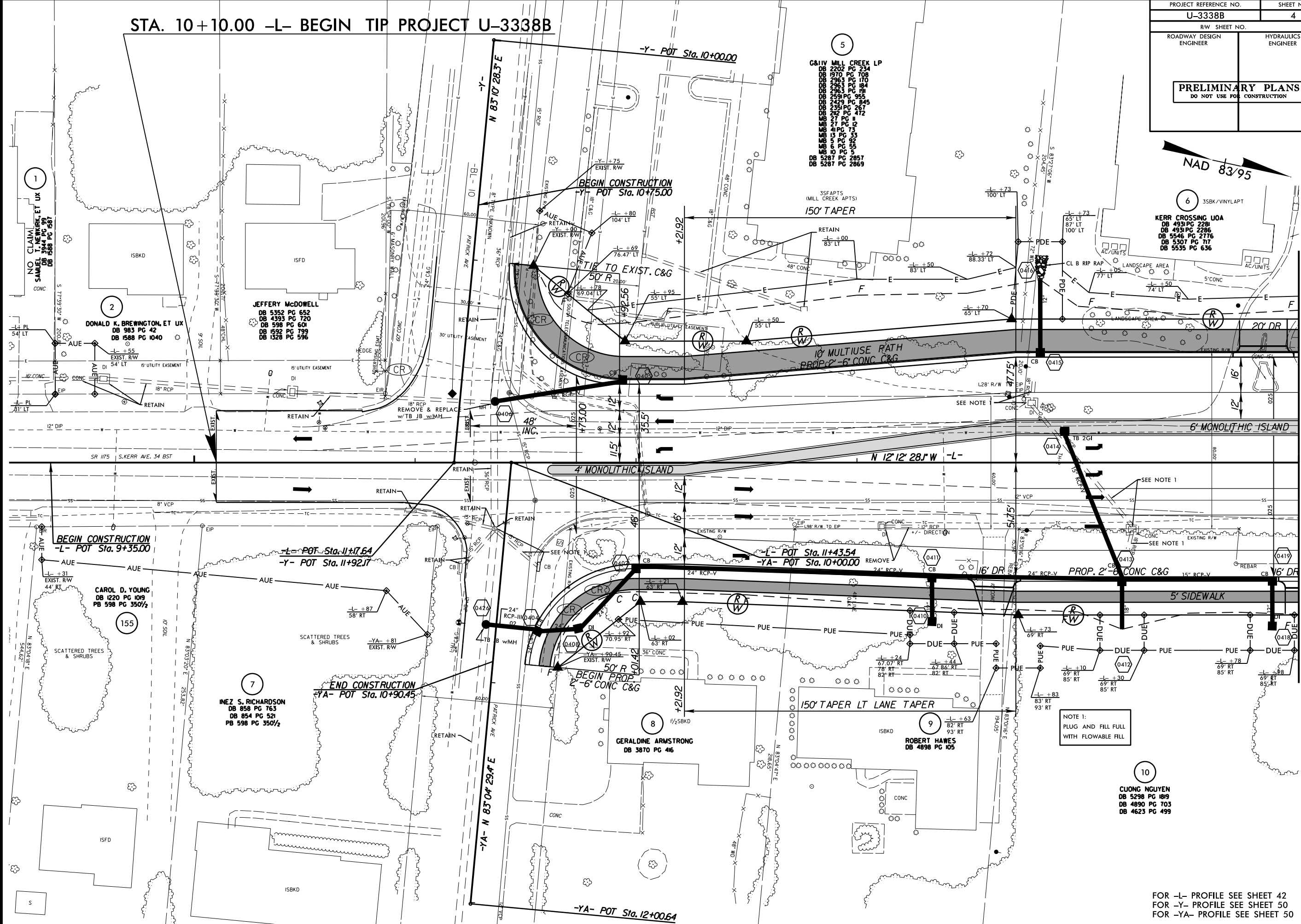
PROJECT REFERENCE NO.	SHEET NO.
U-3338B	2-A
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

REVISIONS

09/2012 - RW REVISIONS: CONVERTED THE PUE TO AUE ON PARCELS 2, 5, 7 AND 155; AND REMOVED PUE AND ELIMINATED THE CLAIM ON PARCEL 1 - JBW.
04/26/13 - RW REVISIONS: REMOVED PARCEL 15 SYMBOL; RENAMED PARCELS 5 AND 6; ADDED 20' OF DEDICATED RIGHT OF WAY ON PARCEL 6; ADDED DRIVEWAY ACCESS AT -L- STA. 15+00 +/-
05/13/13 - RW REVISIONS: REMOVED PARCEL 15 SYMBOL; UPDATED PROPERTY OWNER NAMES AND DEED REFERENCES ON PARCELS 5 AND 6; UPDATED EXISTING RW ON PARCEL 6;
ADDED A DRIVEWAY AT -L- STA. 15+00 +/- RT. ON PARCEL 10 - PJS

8/17/99

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PROJECT REFERENCE NO.		SHEET NO.
U-3338B		4
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		

FOR -L- PROFILE SEE SHEET 42
FOR -Y- PROFILE SEE SHEET 50
FOR -YA- PROFILE SEE SHEET 50

MATCHLINE -L- STA.15+00 SEE SHEET 5

REVISIONS

09/20/2012 - RW REVISIONS: CONVERTED THE PUE TO AUE ON PARCELS 6, 12 AND 13; CORRECTED THE RIGHT OF WAY AND DUE AT -L- STATION 18+46.52 ON PARCEL 16; AND CORRECTED THE ICE STATION AT -YI- STATION 16+88.18 ON PARCEL 6. - JBW

12/12/12 - RW REVISIONS: UPDATED THE PUE AND CONVERTED THE REMAINDER TO AUE FROM -L- STA. 19+77.50 TO STA. 23+79.50 AND REVISED THE DUE ON PARCEL 18. - PJS

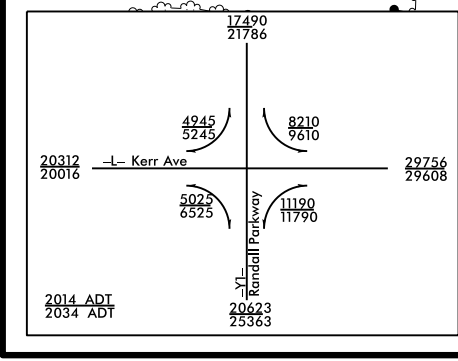
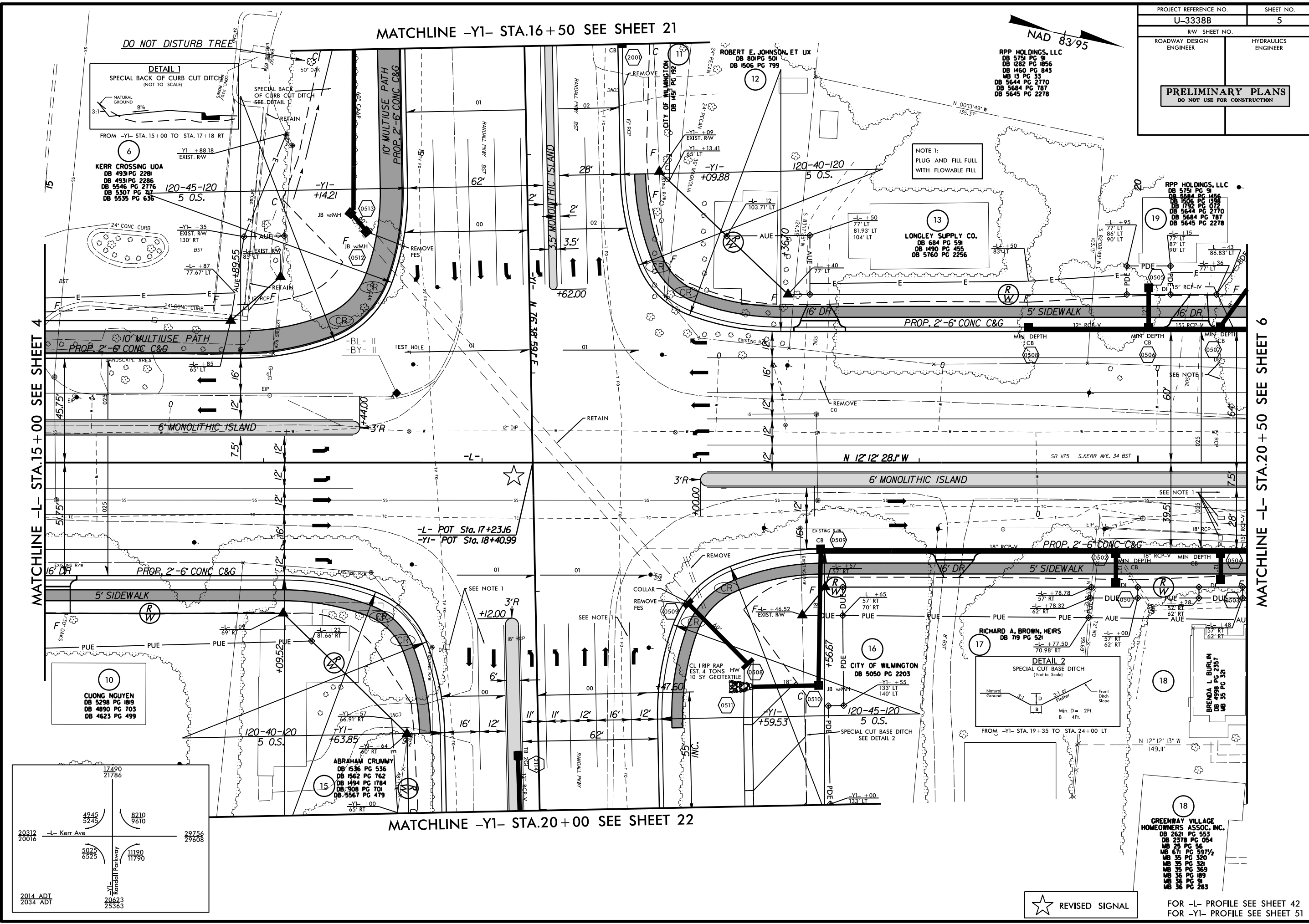
05/13/13 - RW REVISIONS: REDUCED PROPERTY OWNER NAME, DEED REFERENCE AND EXISTING RW ON PARCEL 6; ADDED A DRIVEWAY AT -L- STA. 15+00+/- RT. ON PARCEL 10; COMBINED PARCEL 14 INTO PARCEL 19 ELIMINATING PARCEL 14. - PJS

08/16/13 - RW REVISIONS: UPDATED PROPERTY OWNER NAME AND DEED REFERENCE ON PARCEL 19. - JBW

11/22/13 - RW REVISIONS: UPDATED PROPERTY OWNER NAME AND DEED REFERENCE ON PARCEL 13. - PJS

8/17/99

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33388.DWG

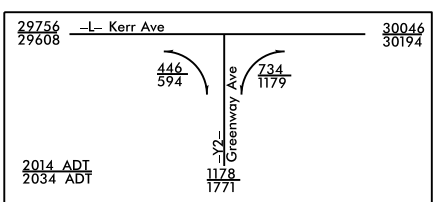
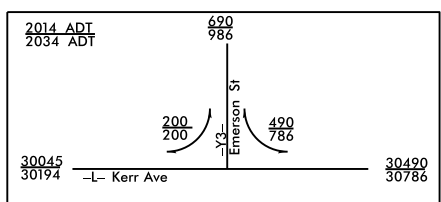
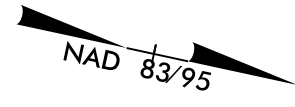


PROJECT REFERENCE NO.	SHEET NO.
U-3338B	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

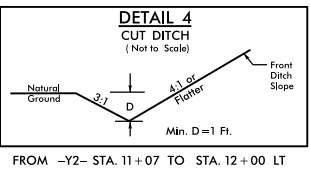
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



FOR -L- PROFILE SEE SHEET 42
FOR -YI- PROFILE SEE SHEET 51



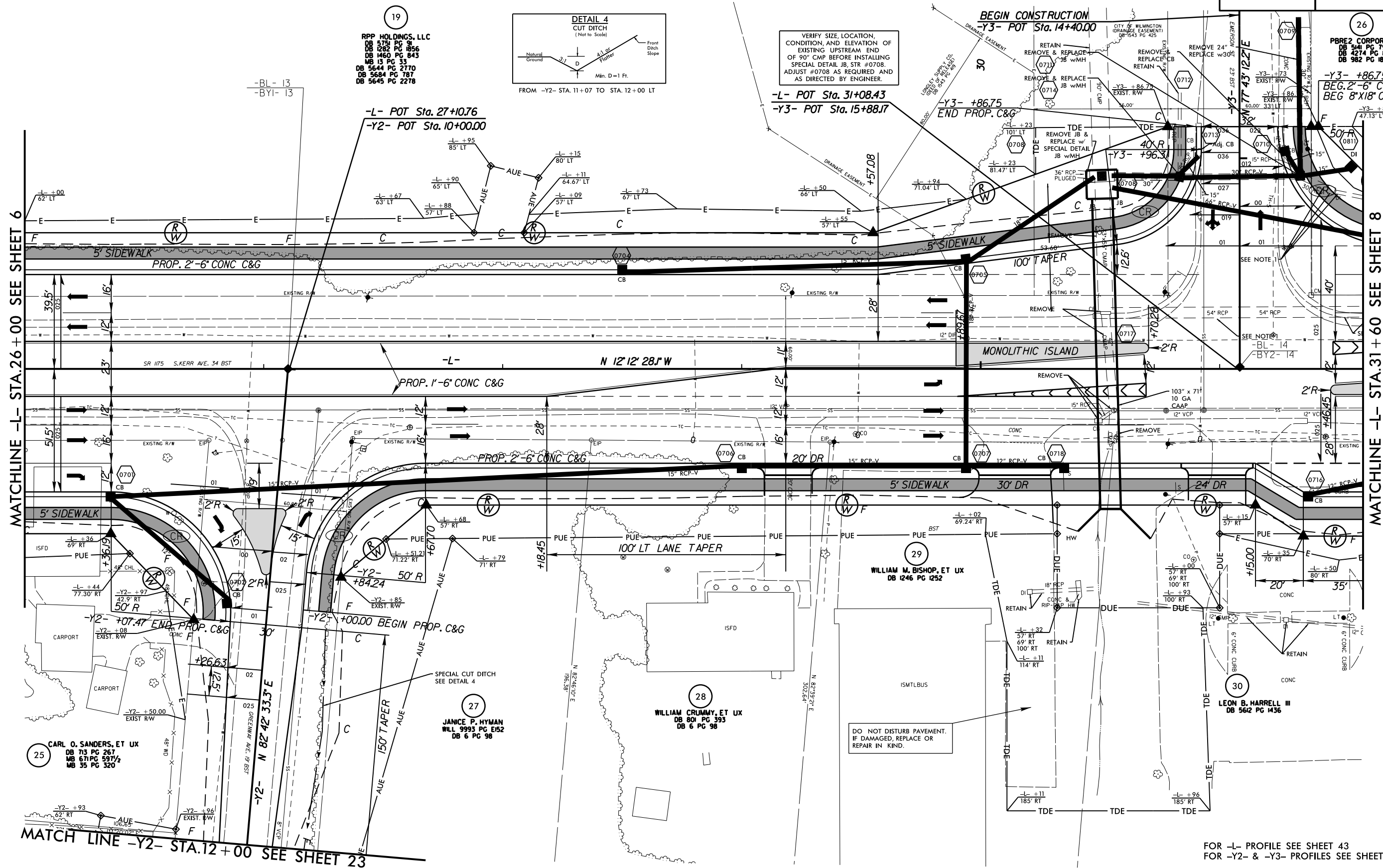
NOTE 1:
PLUG AND FILL FULL
WITH FLOWABLE FILL



RPP HOLDINGS, LLC
DB 515 PG 9
DB 1282 PG 1856
DB 1460 PG 843
MB 13 PG 33
DB 5644 PG 2170
DB 5684 PG 787
DB 5645 PG 2278

PBRE2 CORPORATION
DB 541 PG 798
DB 4274 PG 861
DB 982 PG 180

-Y3- +86.75 LT.
BEG. 2'-6\"/>



MATCHLINE -L- STA.26+00 SEE SHEET 6

MATCHLINE -L- STA.31+60 SEE SHEET 8

MATCH LINE -Y2- STA.12+00 SEE SHEET 23

REVISIONS
09/20/12 - RW REVISIONS: CONVERTED THE PUE TO AUE ON PARCELS 19, 25 AND 27; EXTENDED THE PUE TO PROPOSED RW AT -L- STATION 27+51.21 ON PARCEL 27; AND DELETED THE PDE RIGHT OF -Y2- STATION 11+25 AND ADJUSTED THE TCE ON PARCEL 25. - JBW
05/13/13 - RW REVISIONS: ADDED A DRIVEWAY AT -L- STA. 30+15+/- RT. ON PARCEL 29. - PJS
08/16/13 - RW REVISIONS: UPDATED PROPERTY OWNER NAME AND DEED REFERENCE ON PARCEL 19. - JBW
10/10/13 - RW REVISION: ADDED "DO NOT DISTURB PAVEMENT" NOTE ON PARCEL 22. - TEM

11-OCT-2013 10:12
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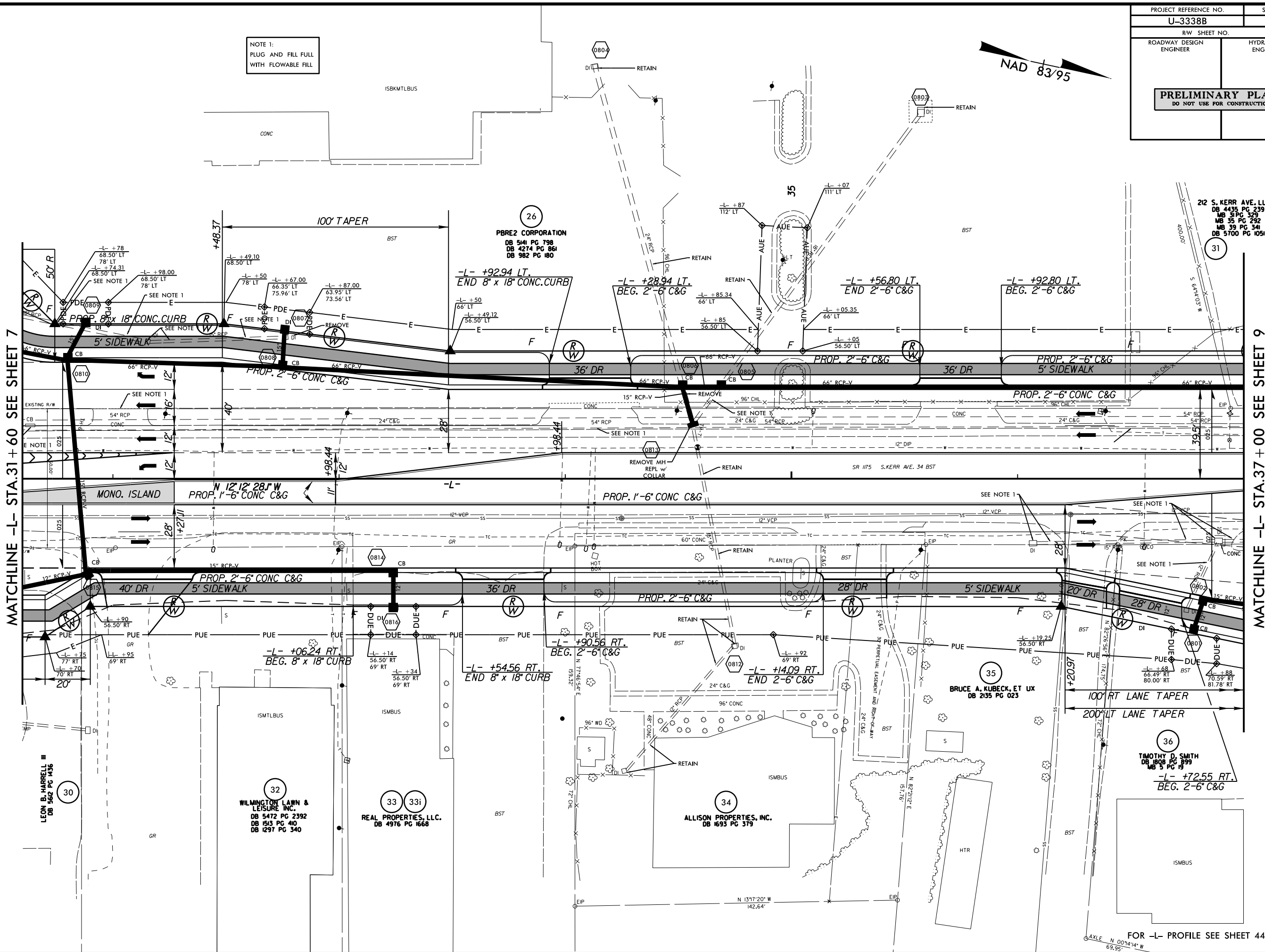
FOR -L- PROFILE SEE SHEET 43
FOR -Y2- & -Y3- PROFILES SEE SHEET 53

REVISIONS
09/20/12 - RW REVISIONS: CONVERTED THE PUE TO AUE ON PARCEL 26; ADDED PDE AT -L- STATIONS 31+88 AND 32+77 ON PARCEL 26; AND ADJUSTED THE PUE ON PARCELS 35 AND 36. - JBW
05/13/13 - RW REVISIONS: UPDATED PROPERTY OWNER NAME AND DEED REFERENCE ON PARCEL 31; REVISED THE DRIVEWAY AT -L- STA. 32+10 TO 30' ON PARCEL 32. - PJS
06/14/13 - RW REVISIONS: REVISED THE DRIVEWAY AT -L- STA. 32+10 TO 40' ON PARCEL 32. - JBW
12/09/13 - RW REVISIONS: ADDED PARCEL 33 TO PARCEL 33. - PJS

10-DEC-2013 09:59
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\$\$\$\$\$150.00 PER HOUR\$\$\$\$\$

MATCHLINE -L- STA.31+60 SEE SHEET 7

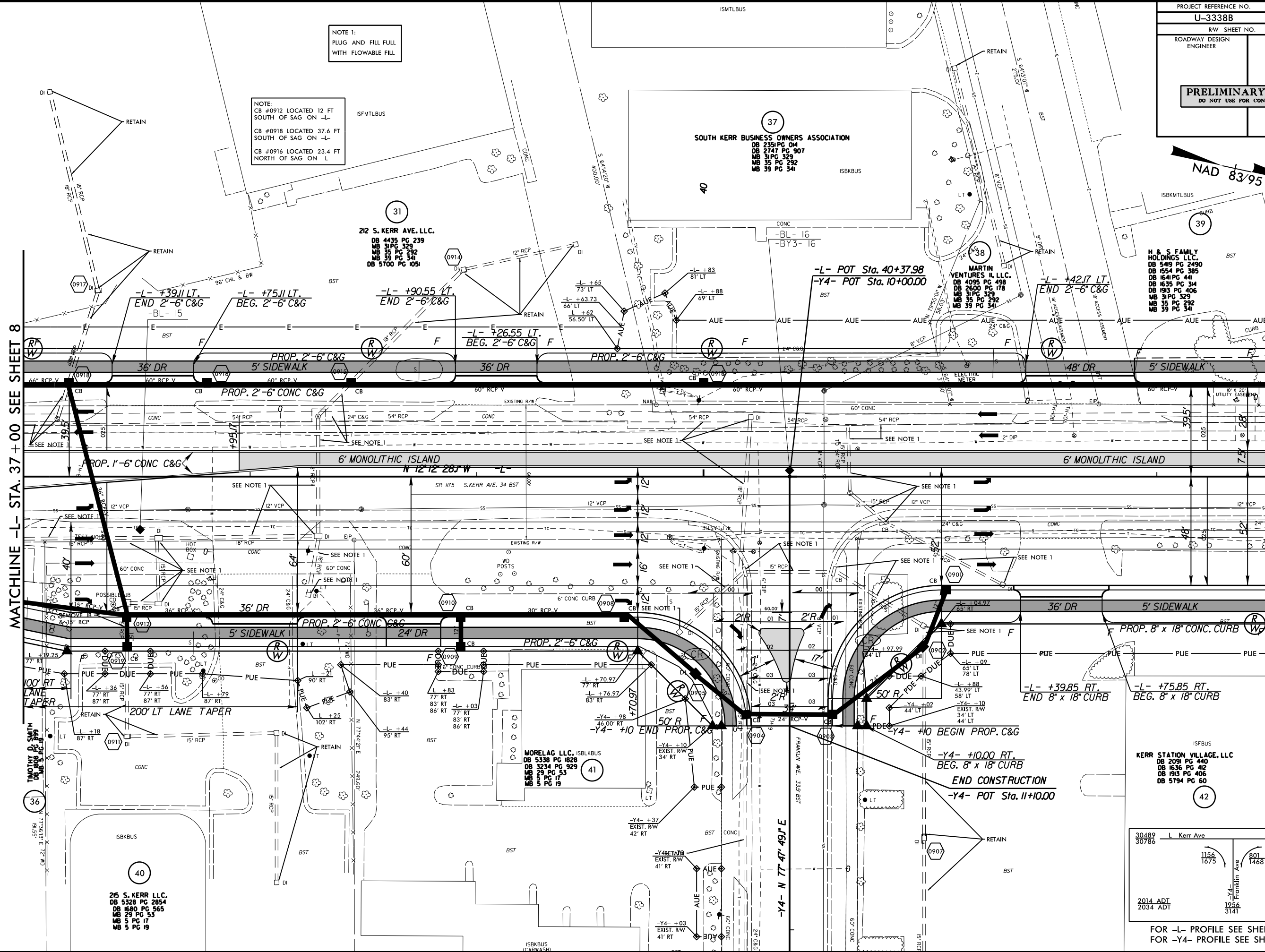
MATCHLINE -L- STA.37+00 SEE SHEET 9



PROJECT REFERENCE NO.		SHEET NO.
U-3338B		8
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		

FOR -L- PROFILE SEE SHEET 44

NAD 83/95

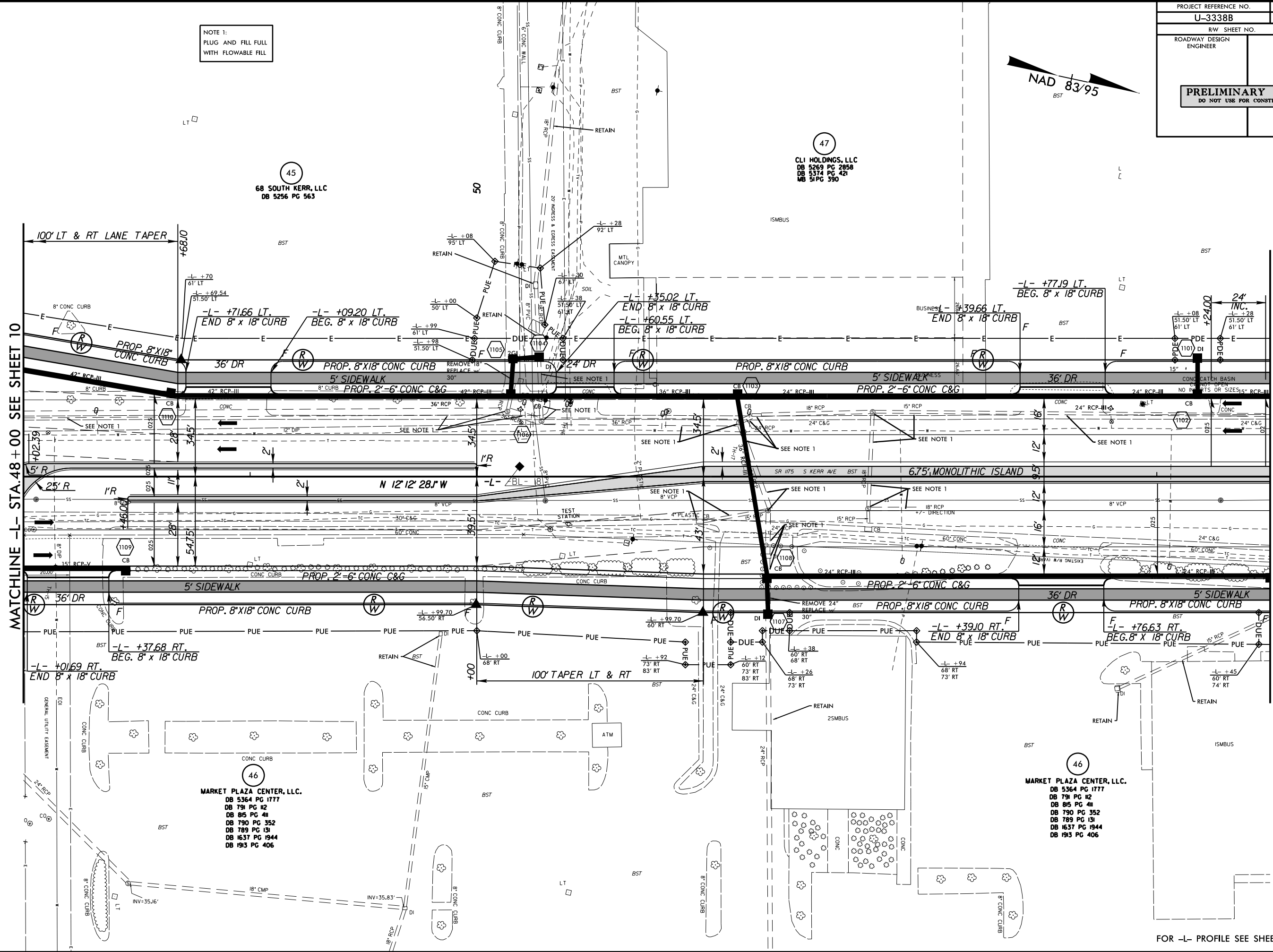
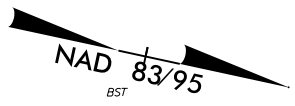


MATCHLINE -L- STA. 37 + 00 SEE SHEET 8

MATCHLINE -L- STA. 42 + 50 SEE SHEET 10

REVISIONS

09/20/12	- RW	REVISIONS: CONVERTED THE PUE TO AUE ON PARCELS 31, 37, 39 AND 41 - JRW
11/09/12	- RW	REVISION: CHANGED THE PUE TO AUE FROM -L- STA. 40 + 99.00 TO STA. 41 + 65.47 LEFT ON PARCEL 38 - PJS
05/13/13	- RW	REVISION: UPDATED PROPERTY OWNER NAME AND DEED REFERENCE ON PARCEL 31; UPDATED PROPERTY OWNER NAME ON PARCEL 37 - PJS
04/09/14	- RW	REVISIONS: UPDATED DEED REFERENCE ON PARCEL 42 - JRW



NOTE 1:
PLUG AND FILL FULL
WITH FLOWABLE FILL

45
68 SOUTH KERR, LLC
DB 5256 PG 563

47
CLI HOLDINGS, LLC
DB 5269 PG 2858
DB 5374 PG 421
MB 51PG 350

46
MARKET PLAZA CENTER, LLC.
DB 5364 PG 1777
DB 791 PG 12
DB 815 PG 41
DB 790 PG 352
DB 789 PG 131
DB 1637 PG 1944
DB 1913 PG 406

46
MARKET PLAZA CENTER, LLC.
DB 5364 PG 1777
DB 791 PG 12
DB 815 PG 41
DB 790 PG 352
DB 789 PG 131
DB 1637 PG 1944
DB 1913 PG 406

FOR -L- PROFILE SEE SHEET 45

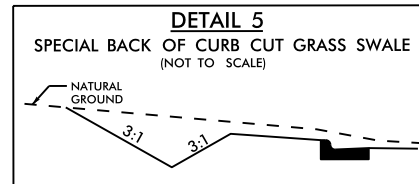
REVISIONS
09/2012 - RW REVISION: ADJUSTED THE PUE AT -L- STATION 50+00 OFFSET 68' RT. ON PARCEL 46. - JBW

22-FEB-2013 12:37
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\$\$\$\$\$15.00 PER HOUR\$\$\$\$\$

8/17/99

MATCHLINE -L- STA.53 + 50 SEE SHEET 12

MATCHLINE -L- STA.48 + 00 SEE SHEET 10



★ REVISED SIGNAL

FOR -L- PROFILE SEE SHEET 46
FOR -Y6- PROFILE SEE SHEET 56

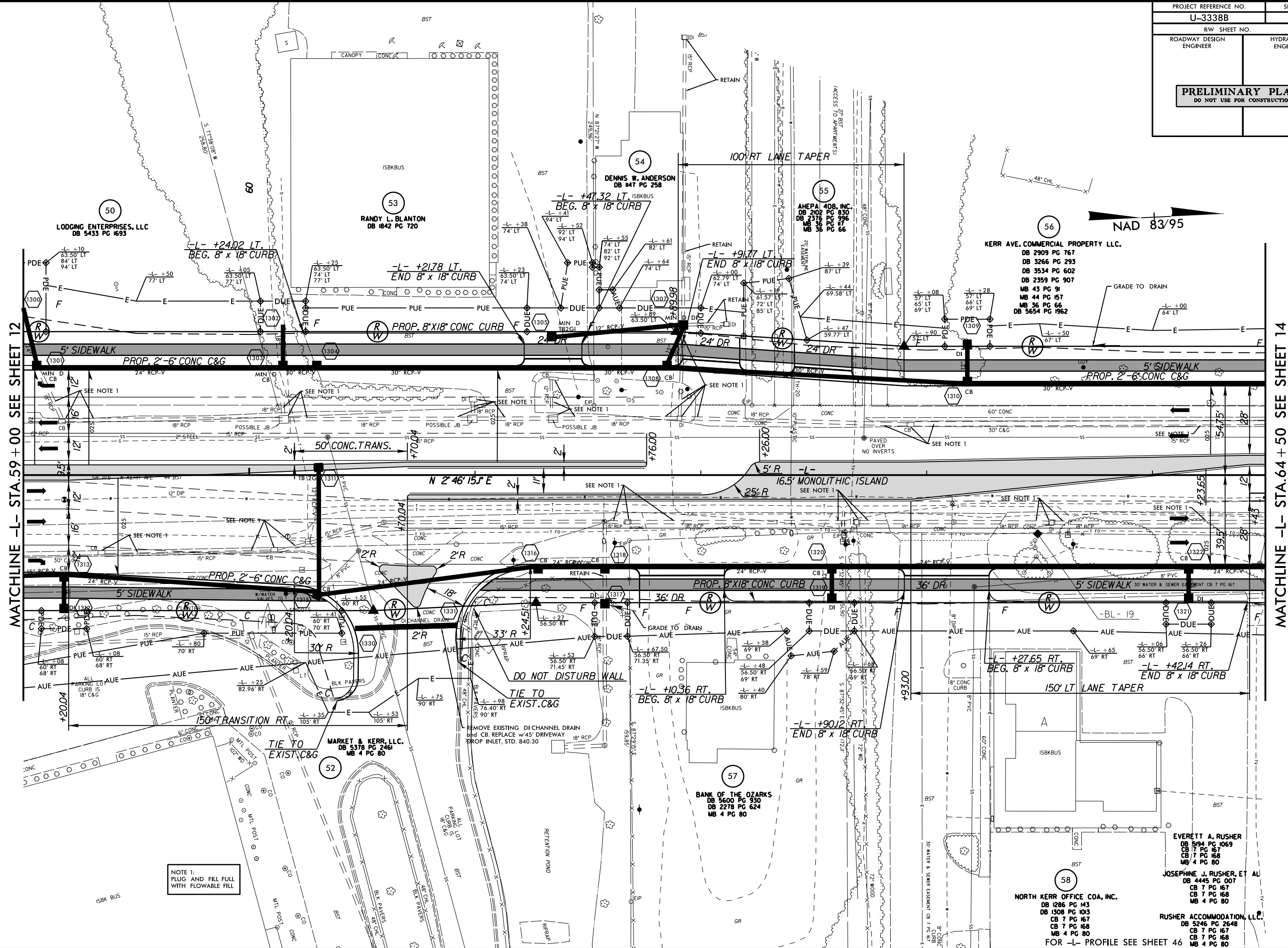
04-APR-2014 14:28
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REVISIONS

09/2012 - RW REVISIONS: CONVERTED THE PUE TO AUE ON PARCELS 57 AND 58; AND ADDED PDE AT -L- STATION 59+18, REMOVED THE DUE AT -L- STATION 60+04 AND EXTENDED THE DUE TO -L- STATION 61+47.50 ON PARCEL 52. - JBW
 01/09/13 - RW REVISIONS: REDUCED THE DUE FROM -L- STA. 61+67.50 TO STA. 61+78.00 RT. ON PARCEL 57; CONVERTED THE PUE TO AUE FROM -L- STA. 60+41.00 TO STA. 61+53.00 RT. ON PARCEL 52. - PJS
 05/13/13 - RW REVISIONS: UPDATED PROPERTY OWNER NAME AND DEED REFERENCE ON PARCEL 56; AND REVISED THE PUE TO AUE ON PARCEL 58. - PJS
 06/18/13 - RW REVISIONS: ADDED TCE FROM -L- STA. 60+25.00 TO STA. 60+98.00 RT. ON PARCEL 52. - PJS
 08/23/13 - RW REVISIONS: REVISED A PUE TO AUE ON PARCEL 54. - JBW
 12/13/13 - RW REVISIONS: CHANGED 20' DRIVEWAY TO 36' DRIVEWAY ON PARCEL 57. - JBW
 04/09/14 - RW REVISIONS: REVISED PUE AND ADDED AUE ON PARCEL 52. - JBW

04-APR-2014 14:28
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PROJECT REFERENCE NO.	SHEET NO.
U-3338B	13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



MATCHLINE -L- STA.59 + 00 SEE SHEET 12

MATCHLINE -L- STA.64 + 50 SEE SHEET 14

NOTE 1:
 PLUG AND FILL FULL
 WITH FLOWABLE FILL

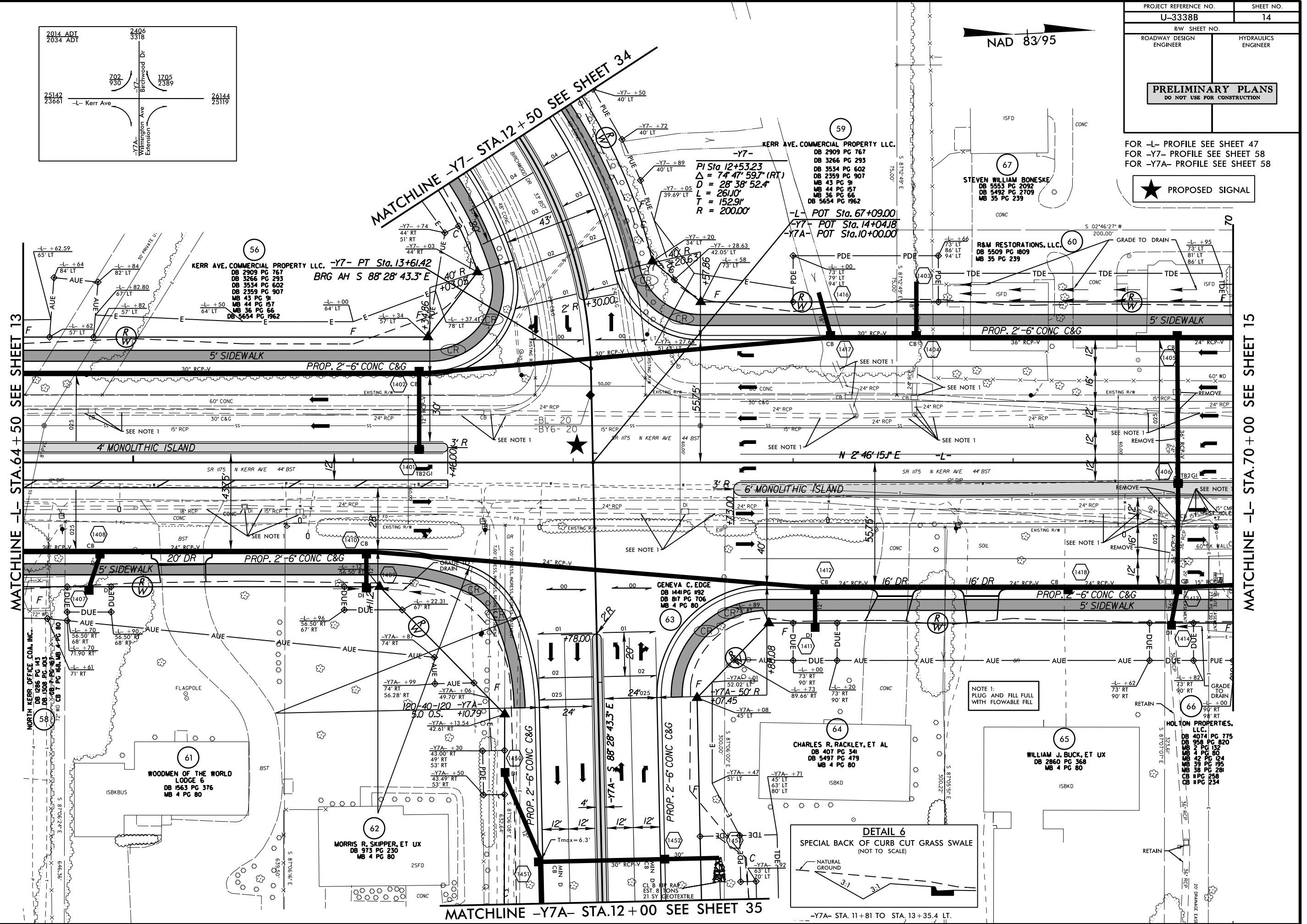
NORTH KERR OFFICE COA, INC.
 DB 1286 PG 143
 DB 1308 PG 1013
 CB 7 PG 167
 CB 7 PG 168
 MB 4 PG 80
 FOR -L- PROFILE SEE SHEET 46

EVERETT A. RUSHER
 DB 5194 PG 1069
 CB 7 PG 167
 CB 7 PG 168
 MB 4 PG 80
 JOSEPHINE J. RUSHER, ET AL
 DB 4445 PG 007
 CB 7 PG 167
 CB 7 PG 168
 MB 4 PG 80
 RUSHER ACCOMMODATION, LLC
 DB 5246 PG 2648
 CB 7 PG 167
 CB 7 PG 168
 MB 4 PG 80

REVISIONS

09/2012 - RW REVISIONS: CONVERTED THE PUE TO AUE ON PARCELS 56, 61, 62, 64, AND 65; AND CORRECTED THE STATION ON AUE AT -Y7A- 10+99 RT. JBW
 05/13/13 - RW REVISIONS: UPDATED PROPERTY OWNER NAMES AND DEED REFERENCES ON PARCELS 56 AND 59; REVISED THE PROPOSED RW AND THE PDE ON PARCEL 62; AND
 07/11/13 - RW REVISIONS: REVISED THE PUE TO AUE ON PARCEL 58 - PJS
 07/11/13 - RW REVISIONS: REVISED TDE TO PDE FROM -Y7A- STA. 11+92.00 TO STA. 13+10.00 LEFT ON PARCEL 64 - PJS

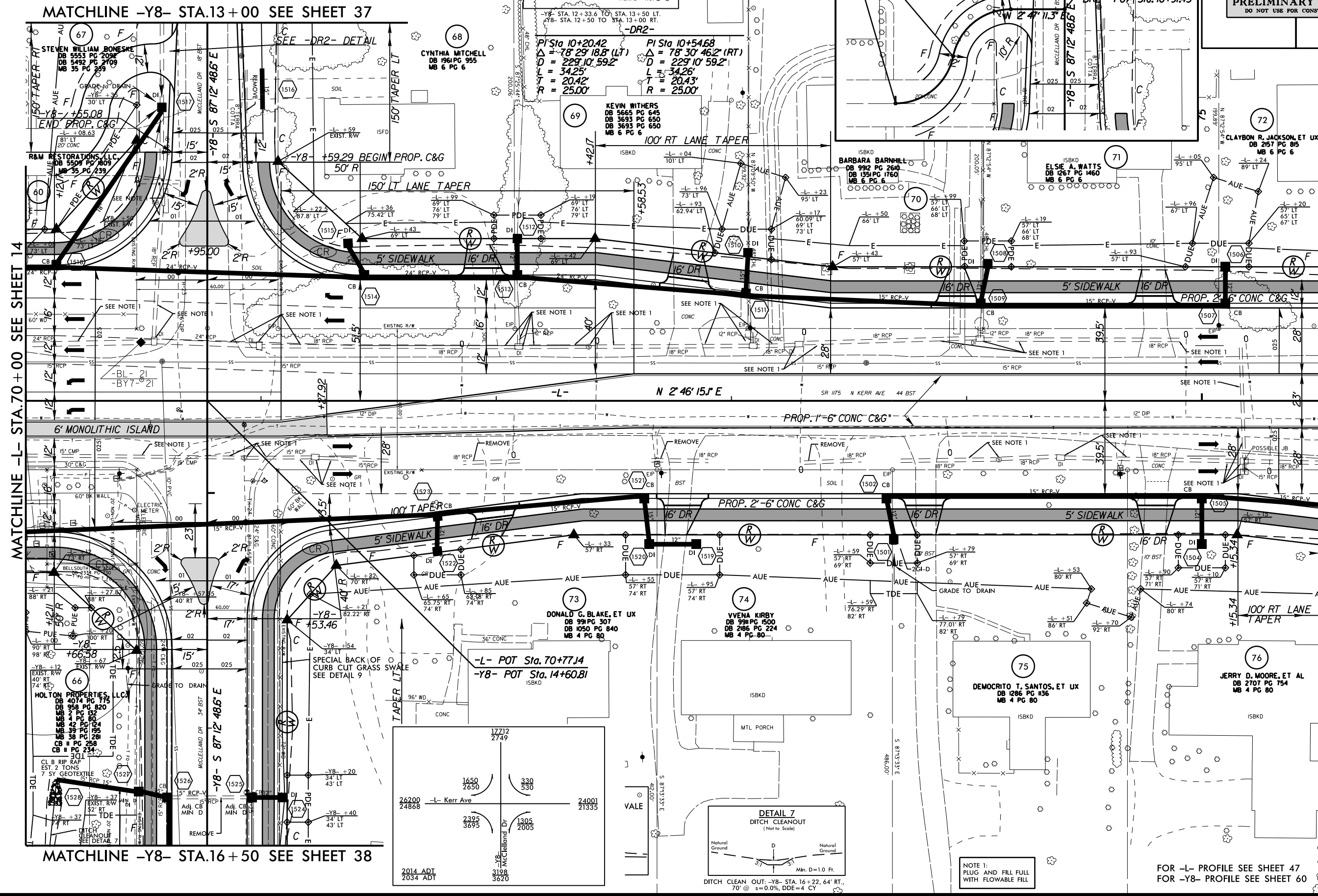
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 \$\$\$\$\$\$SYTIME\$\$\$\$\$



PROJECT REFERENCE NO.	SHEET NO.
U-3338B	14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

FOR -L- PROFILE SEE SHEET 47
 FOR -Y7- PROFILE SEE SHEET 58
 FOR -Y7A- PROFILE SEE SHEET 58

★ PROPOSED SIGNAL



09/20/2012 - RW REVISIONS: CONVERTED THE PUE TO AUE ON PARCELS 60, 67, AND 69 THROUGH 76; CORRECTED THE PUE AT -L- STATION 70+27.87 RT.; AND ADDED PDE AT -L- STATION 70+13 ON PARCEL 67. - JBW

08/16/13 - RW REVISIONS: UPDATED PROPERTY OWNER NAME AND DEED REFERENCE ON PARCEL 69. - JBW

10/22/13 - RW REVISIONS: ADDED DRIVEWAY AT -Y8- STA. 13+15.00 RT. ON PARCEL 67. - PJS

22-NOV-2013 09:49
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\$\$\$\$\$USERNAME\$\$\$\$\$

8/17/99

14-JUN-2013 11:54
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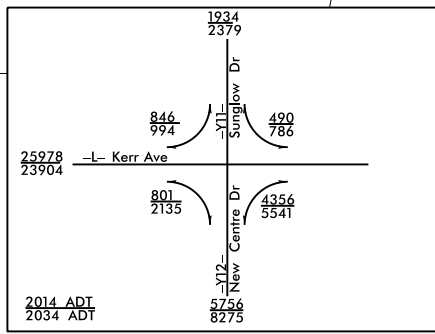
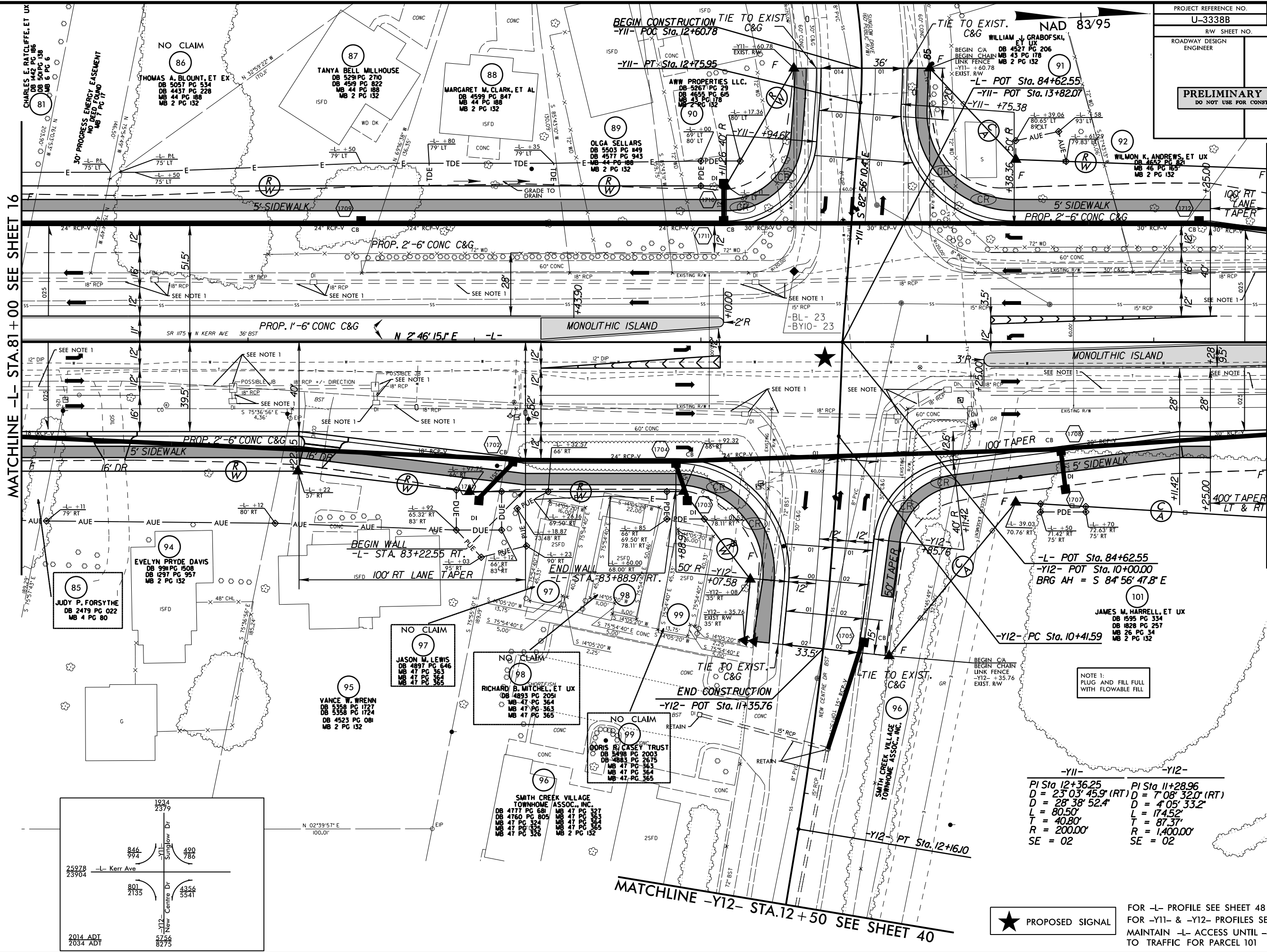
REVISIONS

09/2012 - RW REVISIONS; CONVERTED THE PUE TO AUE ON PARCELS 85, 91, 94 AND 95; ADJUSTED THE RIGHT OF WAY, PUE, PDE AND TCE ON PARCEL 96; ELIMINATED THE PUE ON PARCELS 91 AND 92; ELIMINATED THE PUE, TCE AND CLAIM ON PARCEL 97; ADJUSTED THE TCE ON PARCEL 98; ELIMINATED THE RIGHT OF WAY AND CLAIM ON PARCEL 99; AND EXTENDED THE AERIAL UTILITY EASEMENT TO THE PROPOSED RIGHT OF WAY LINE ON PARCEL 91; AND REMOVED PARCEL NUMBER 93 AND THE ASSOCIATED PROPERTY OWNER INFORMATION FROM THIS SHEET. - JBW
11/09/12 RW REVISIONS; CHANGED THE TCE FROM -L- STA. 83+26.16 TO STA. 83+85.00 RIGHT; ELIMINATED THE CLAIM ON PARCEL 98; CHANGED PARCEL 100 TO PARCEL 96. - PJS
05/13/13 RW REVISIONS; ELIMINATED THE TEMPORARY CONSTRUCTION EASEMENT AND CLAIM ON PARCEL 86. - JBW
08/16/13 RW REVISIONS; UPDATED PROPERTY OWNER NAME AND DEED REFERENCE ON PARCEL 95. - JBW
10/10/13 RW REVISION: ADDED "MAINTAIN -L- ACCESS UNTIL -SRI- IS OPEN TO TRAFFIC" NOTE FOR PARCEL 101. - TEM

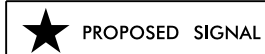
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U33388.dwg

MATCHLINE -L- STA.81+00 SEE SHEET 16

MATCHLINE -L- STA.86+50 SEE SHEET 18



PROJECT REFERENCE NO.	SHEET NO.
U-33388	17
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



PROPOSED SIGNAL

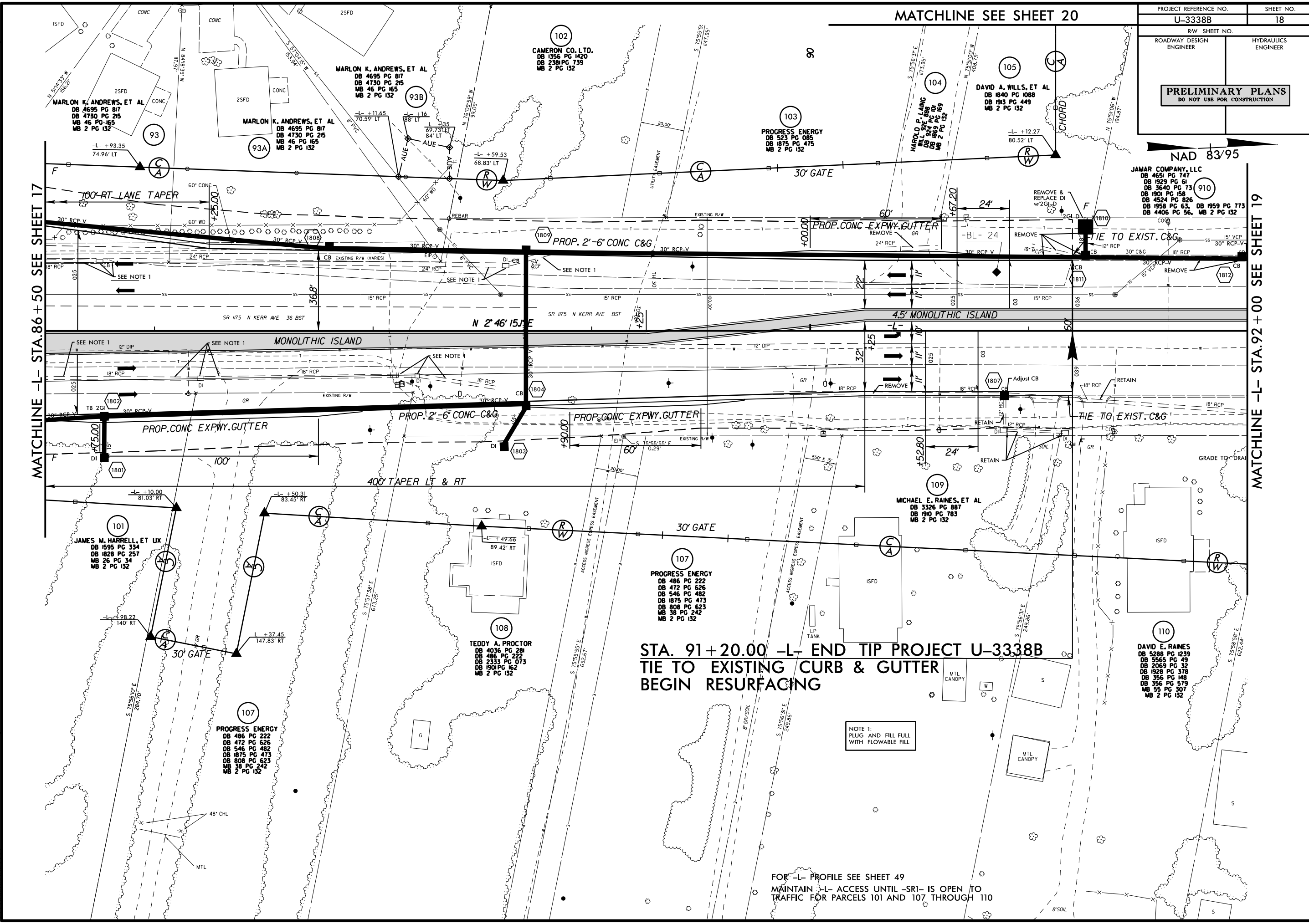
FOR -L- PROFILE SEE SHEET 48
FOR -Y11- & -Y12- PROFILES SEE SHEET 61
MAINTAIN -L- ACCESS UNTIL -SRI- IS OPEN TO TRAFFIC FOR PARCEL 101

-Y11-	-Y12-
PI Sta 12+36.25	PI Sta 11+28.96
D = 23° 03' 45.9" (RT)	D = 7° 08' 32.0" (RT)
L = 28° 38' 52.4"	L = 4° 05' 33.2"
T = 80.50'	L = 174.52'
R = 40.80'	T = 87.37'
R = 200.00'	R = 1,400.00'
SE = 02	SE = 02

09/2012 - RW REVISIONS: CONVERTED THE PUE TO AUE ON PARCELS 93 AND 103; ELIMINATED THE PUE ON PARCEL 93; AND ADDED A GATE AT THE CONTROL OF ACCESS FENCE AT -L- STATION 87+29 ON PARCEL 107. - JBW
06/14/13 - RW REVISIONS: SUBDIVIDED PARCEL 93 INTO PARCELS 93A AND 93B; REVISED THE GATE FROM 20' TO 30' AND INSTALLED EXPRESSWAY GUTTER FROM -L- STA. 90+00 TO STA. 90+60 LEFT ON PARCEL 103; REVISED THE GATE FROM 20' TO 30' AT -L- STA. 87+30 AND STA. 89+50 RIGHT ON PARCEL 107; INSTALLED EXPRESSWAY GUTTER FROM -L- STA. 86+75 TO STA. 87+35 AND FROM -L- STA. 88+90 TO STA. 89+50 RIGHT ON PARCEL 107; INSTALLED CHAIN LINK FENCE TO ACCOMMODATE TRUCK STORAGE OFF OF MAIN THOROUGHFARE RIGHT ON PARCEL 107. - JBW
05/15/13 - RW REVISIONS: MAINTAINED THE 30' R/W ON PARCEL 101; EXTENDED EXPRESSWAY GUTTER FROM -L- STA. 87+35.00 RT. TO -L- STA. 87+75.00 RT. ON PARCEL 107. - TEN
12/13/13 - RW REVISIONS: REMOVED AUE FROM PARCEL 103. - JBW

8/17/99

16-JEC-2013 11:56
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\$\$\$\$\$SYTIME\$\$\$\$\$



PROJECT REFERENCE NO. U-3338B		SHEET NO. 18
RW SHEET NO.		HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER		
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		

NAD 83/95

STA. 91+20.00 -L- END TIP PROJECT U-3338B
TIE TO EXISTING CURB & GUTTER
BEGIN RESURFACING

NOTE 1:
PLUG AND FILL FULL
WITH FLOWABLE FILL

FOR -L- PROFILE SEE SHEET 49
MAINTAIN -L- ACCESS UNTIL -SR1- IS OPEN TO
TRAFFIC FOR PARCELS 101 AND 107 THROUGH 110

MATCHLINE -L- STA.86+50 SEE SHEET 17

MATCHLINE -L- STA.92+00 SEE SHEET 19

MATCHLINE SEE SHEET 20

PROJECT REFERENCE NO.	SHEET NO.
U-3338B	19
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

NAD 83/95

MATCHLINE -L- STA. 92+00 SEE SHEET 18

STA. 96+97.55 -L- END CONSTRUCTION

MAINTAIN -L- ACCESS UNTIL -SRI- IS OPEN TO TRAFFIC FOR PARCELS 110, 111 AND 113

MATCHLINE A -Y13- STA. 12+55.00

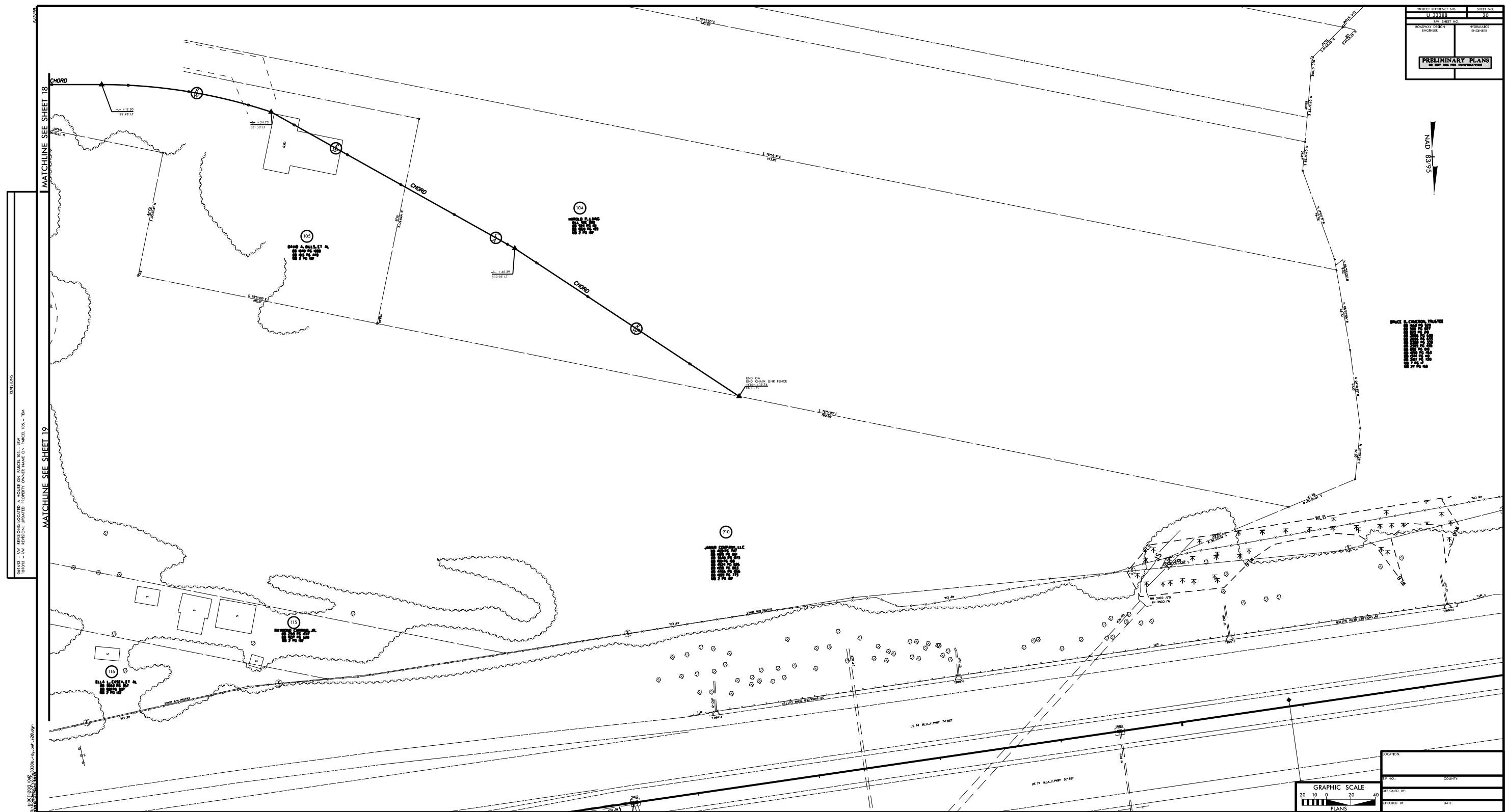
MATCHLINE A -Y13- STA. 12+55.00

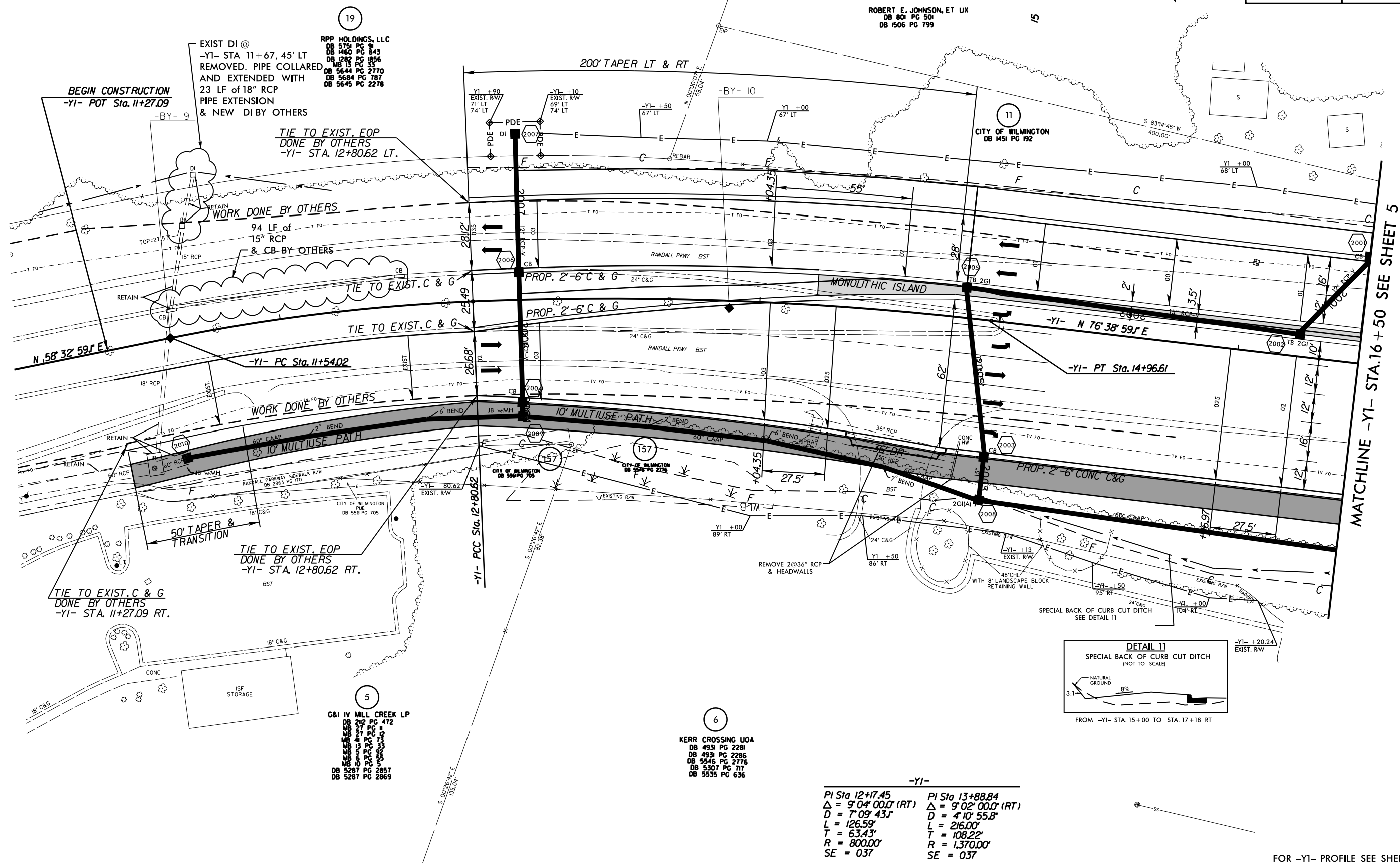
CORNERSTONE OWNERS ASSOC., INC.
DB 3577 PG 629
DB 2884 PG 117
DB 2417 PG 997
DB 2395 PG 1039
DB 2395 PG 158
MB 2 PG 132
CB 11 PG 161
CB 12 PG 146
CB 12 PG 91
CB 12 PG 97
CB 12 PG 48

REVISIONS
10/01/13 RW REVISION: ADDED "MAINTAIN -L- ACCESS UNTIL -SRI- IS OPEN TO TRAFFIC" NOTE FOR PARCELS 110, 111 AND 113. - TEM

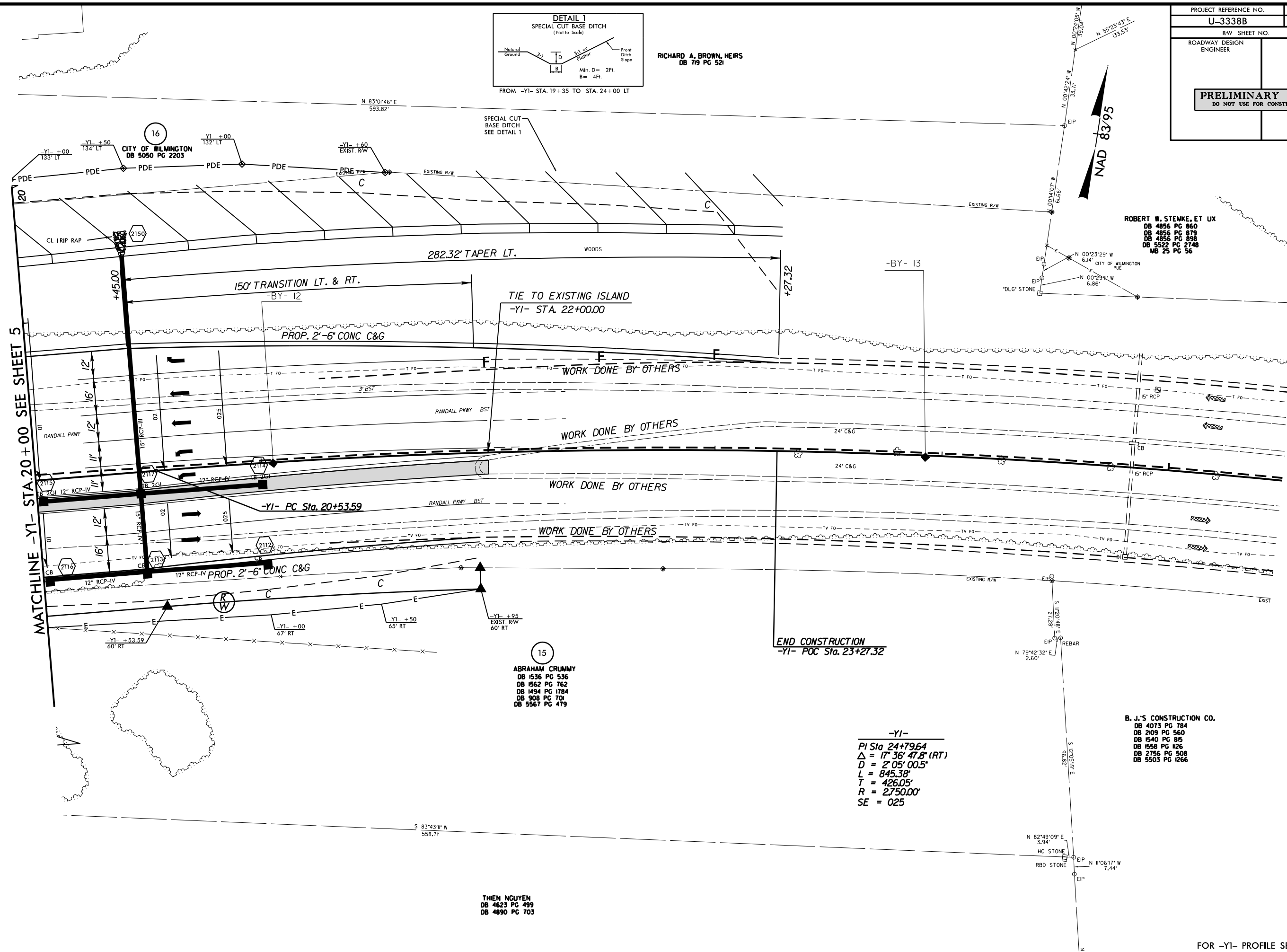
11-01-2013 10:32
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8/17/99

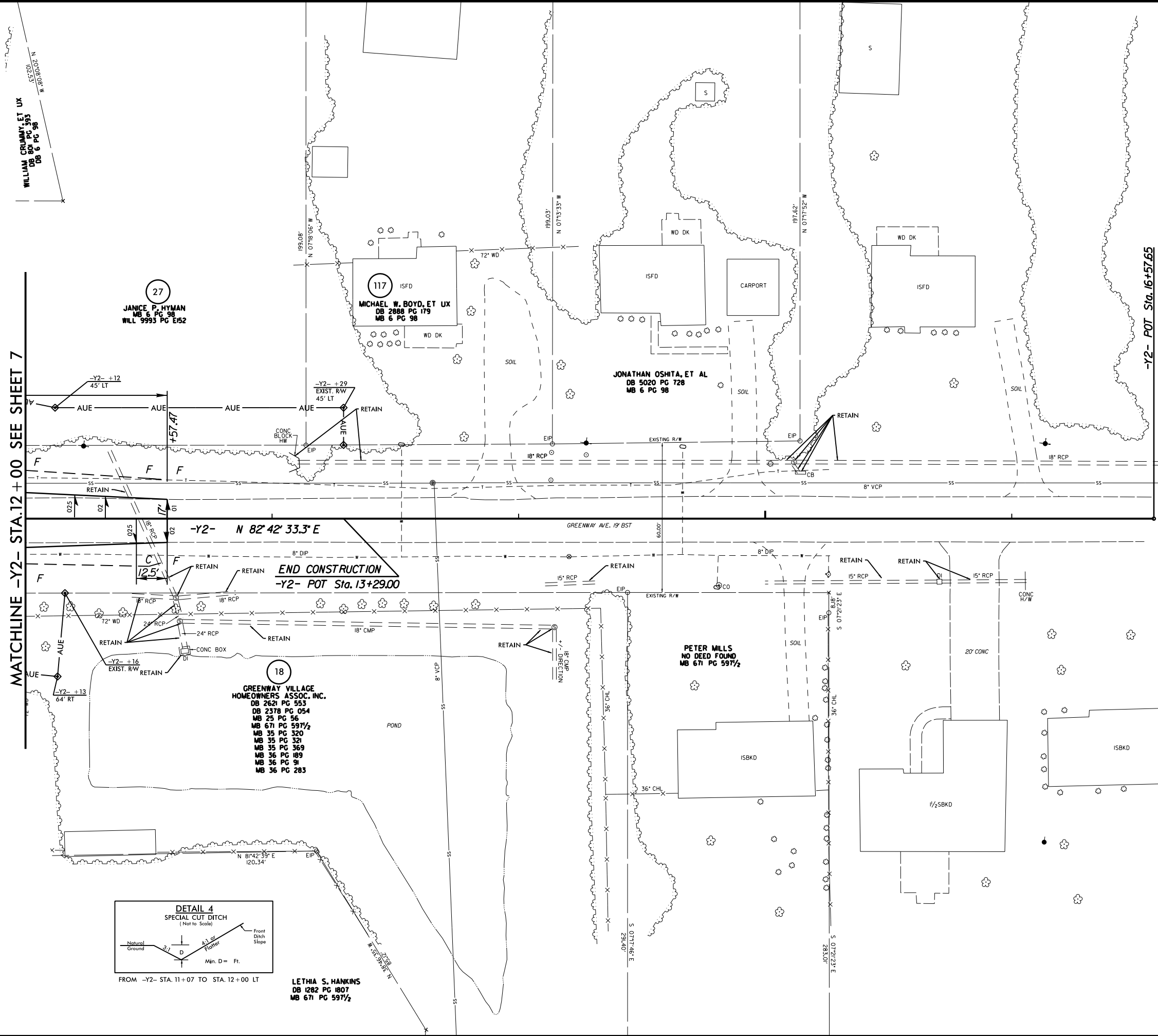




FOR -Y1- PROFILE SEE SHEET 51



PROJECT REFERENCE NO.	SHEET NO.
U-3338B	23
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



REVISIONS
09/2012 - RW REVISIONS: CONVERTED THE PUE TO AUE ON PARCELS 18, 27 AND 117. - JBW

21-SEP-2012 15:08
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FOR -Y2- PROFILE SEE SHEET 53

PROJECT REFERENCE NO.	SHEET NO.
U-3338B	24
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

FOR -Y5- PROFILE SEE SHEET 54

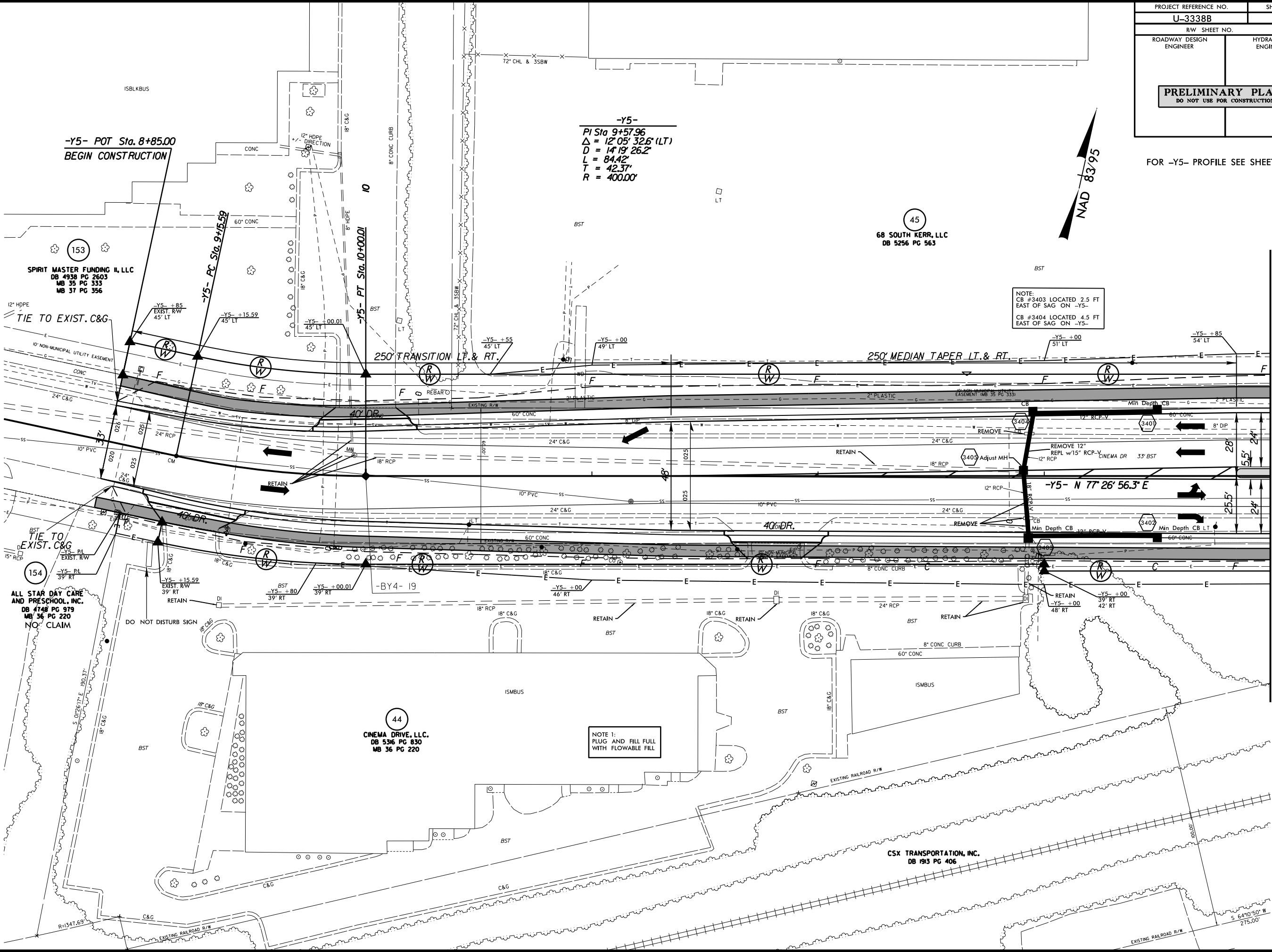
NAD 83/95

-Y5-
PI Sta 9+57.96
 $\Delta = 12' 05' 32.6''$ (LT)
 $D = 14' 19' 26.2''$
 $L = 84.42'$
 $T = 42.37'$
 $R = 400.00'$

45
68 SOUTH KERR, LLC
DB 5256 PG 563

NOTE:
CB #3403 LOCATED 2.5 FT
EAST OF SAG ON -Y5-
CB #3404 LOCATED 4.5 FT
EAST OF SAG ON -Y5-

MATCHLINE -Y5- STA.14+00 SEE SHEET 10



REVISIONS

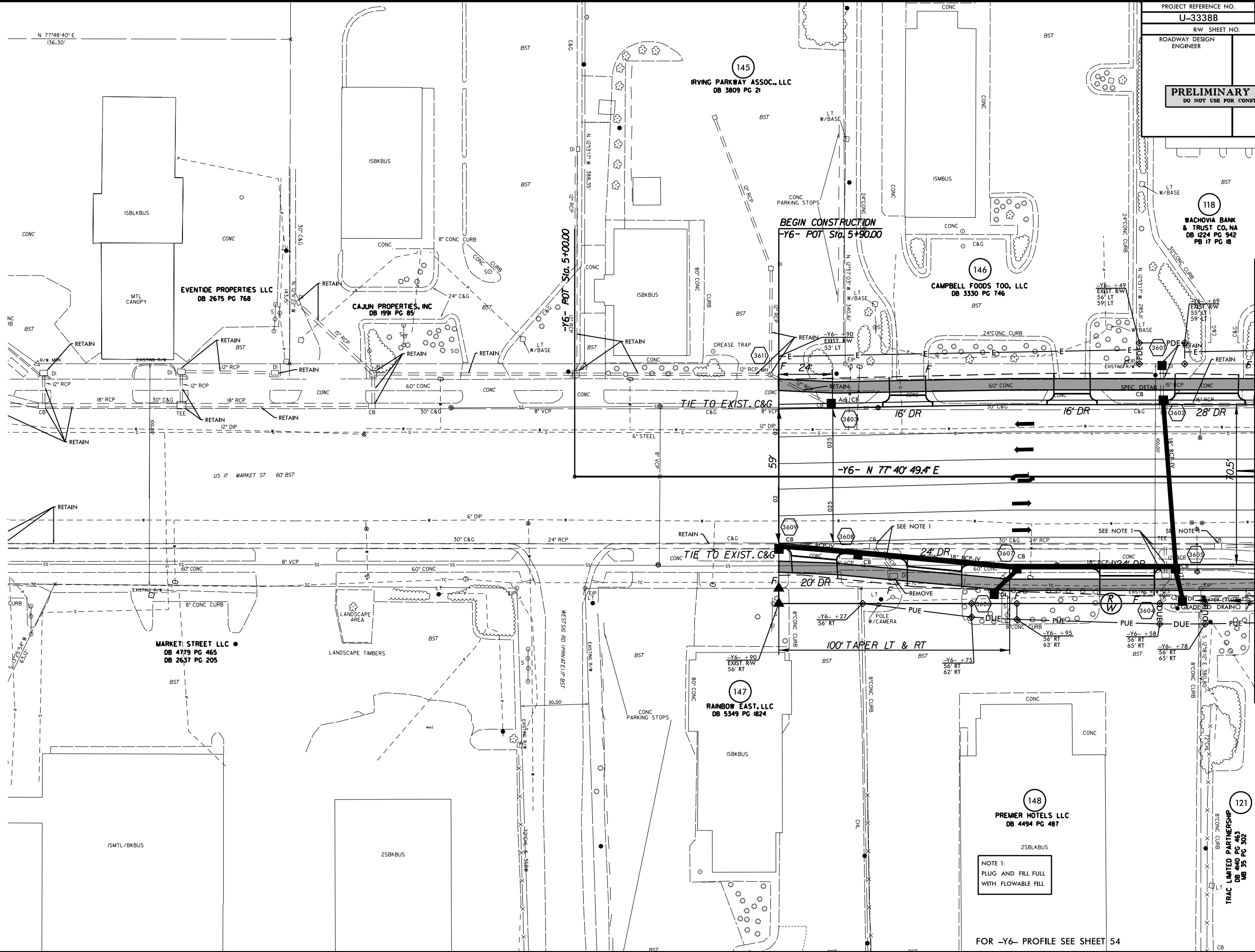
09/20/12 - RW REVISION: ELIMINATED THE RIGHT OF WAY AND CLAIM ON PARCEL 154. - IBW
05/13/13 - RW REVISION: REVISED THE PROPOSED RW FROM -Y5- STA. 8+96.66 TO STA. 13+00.00 RT. AND THE TCE FROM -Y5- STA. 9+80.00 TO STA. 11+00.00 RT. ON PARCEL 44. - PIS
12/13/13 - RW REVISION: REVISED THE PROPOSED RW AND TCE FROM APPR. -Y5- STA. 8+96.50 TO 9+15.59 AND ADDED "DO NOT DISTURB SIGN" ON PARCEL 44. - IBW

16-DEC-2013 11:56
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REVISIONS

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3338b.dwg

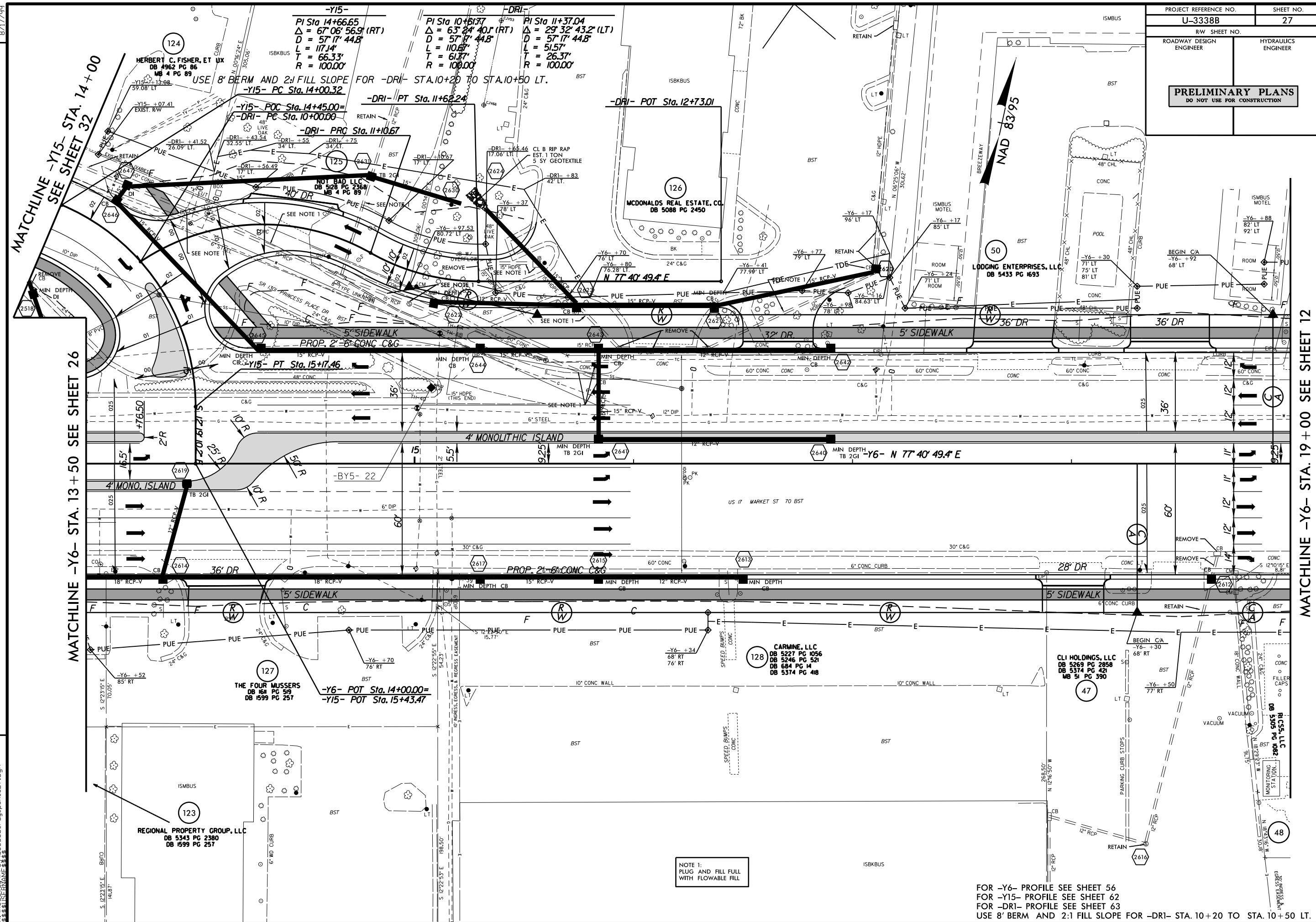


MATCHLINE -Y6- STA.8+00 SEE SHEET 26

09/20/12 - RW REVISION: ADDED TDE ON PARCEL 126; AND ADJUSTED THE TCE ON PARCEL 50 - RBW
09/20/12 - RW REVISIONS: ADDED C/F FROM -14 STA. 54.00 TO -14 STA. 18.30, 00 RIGHT AND FROM -14 STA. 58 + 52.00 LEFT TO -14 STA. 58 + 52.00 LEFT ON PARCELS 47
01/05/17 PIS REVISIONS: ADDED DRIVEWAY CONNECTIONS TO PARCELS 47 AND 50 PIS
05/05/17 PIS REVISIONS: ELIMINATED THE TDE ON PARCEL 50; REVISED THE TDE ON PARCEL 126; ADDED THE TCE ON PARCELS 124 THROUGH 126; ELIMINATED THE PROPOSED RW ON PARCELS 124 AND 125; REVISED THE PROPOSED RW ON PARCEL 126; ELIMINATED THE DUE ON PARCEL 125 AND 126; REVISED THE PUE ON PARCEL 125 AND 126. - PIS
08/16/13 - RW REVISIONS: REMOVED TEMPORARY CONSTRUCTION EASEMENT ON PARCEL 124. - RBW

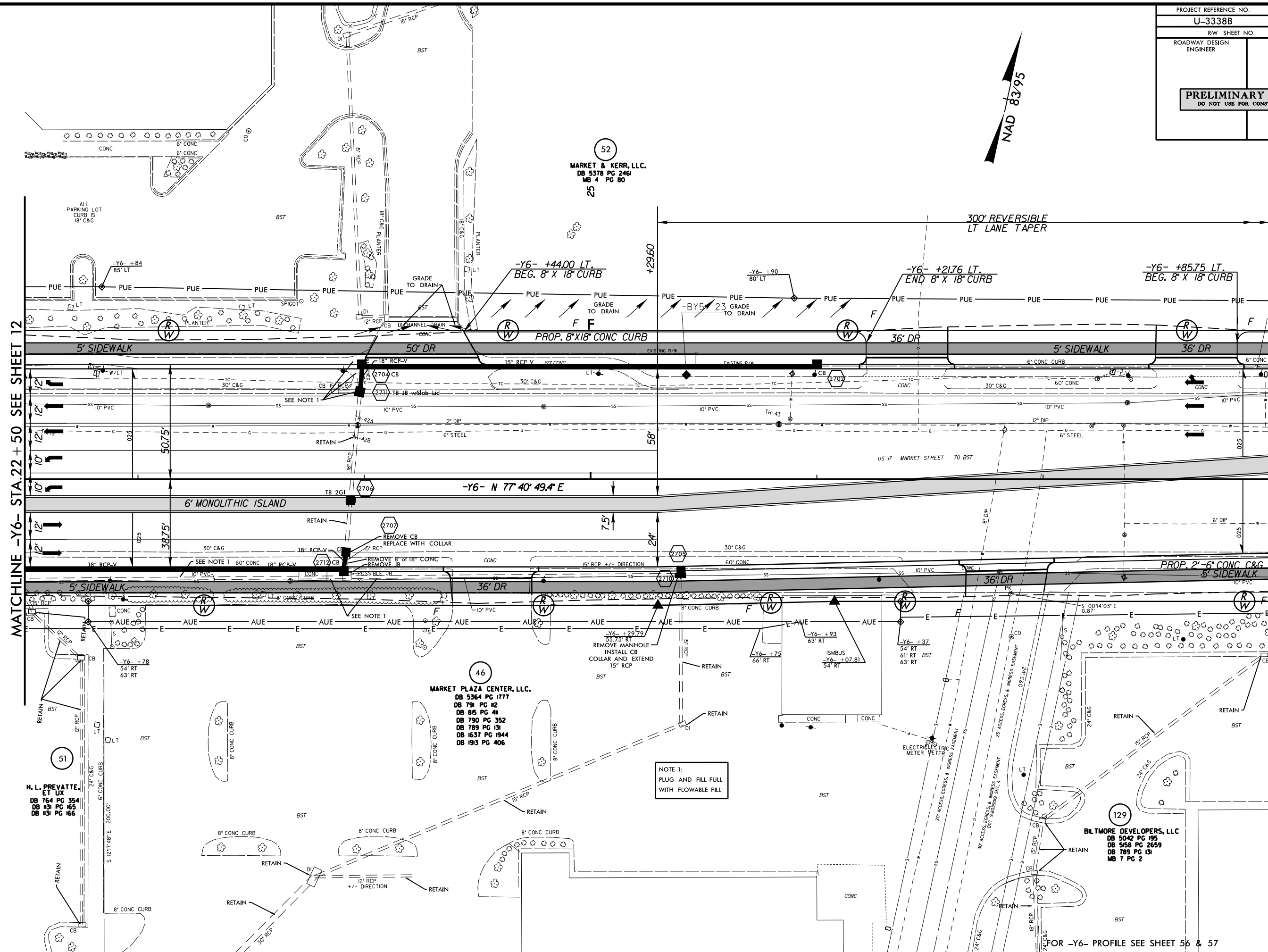
8/17/99

15-AUG-2013 14:45
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FOR -Y6- PROFILE SEE SHEET 56
FOR -Y15- PROFILE SEE SHEET 62
FOR -DR1- PROFILE SEE SHEET 63
USE 8' BERM AND 2:1 FILL SLOPE FOR -DR1- STA. 10+20 TO STA. 10+50 LT.

PROJECT REFERENCE NO.	SHEET NO.
U-3338B	28
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

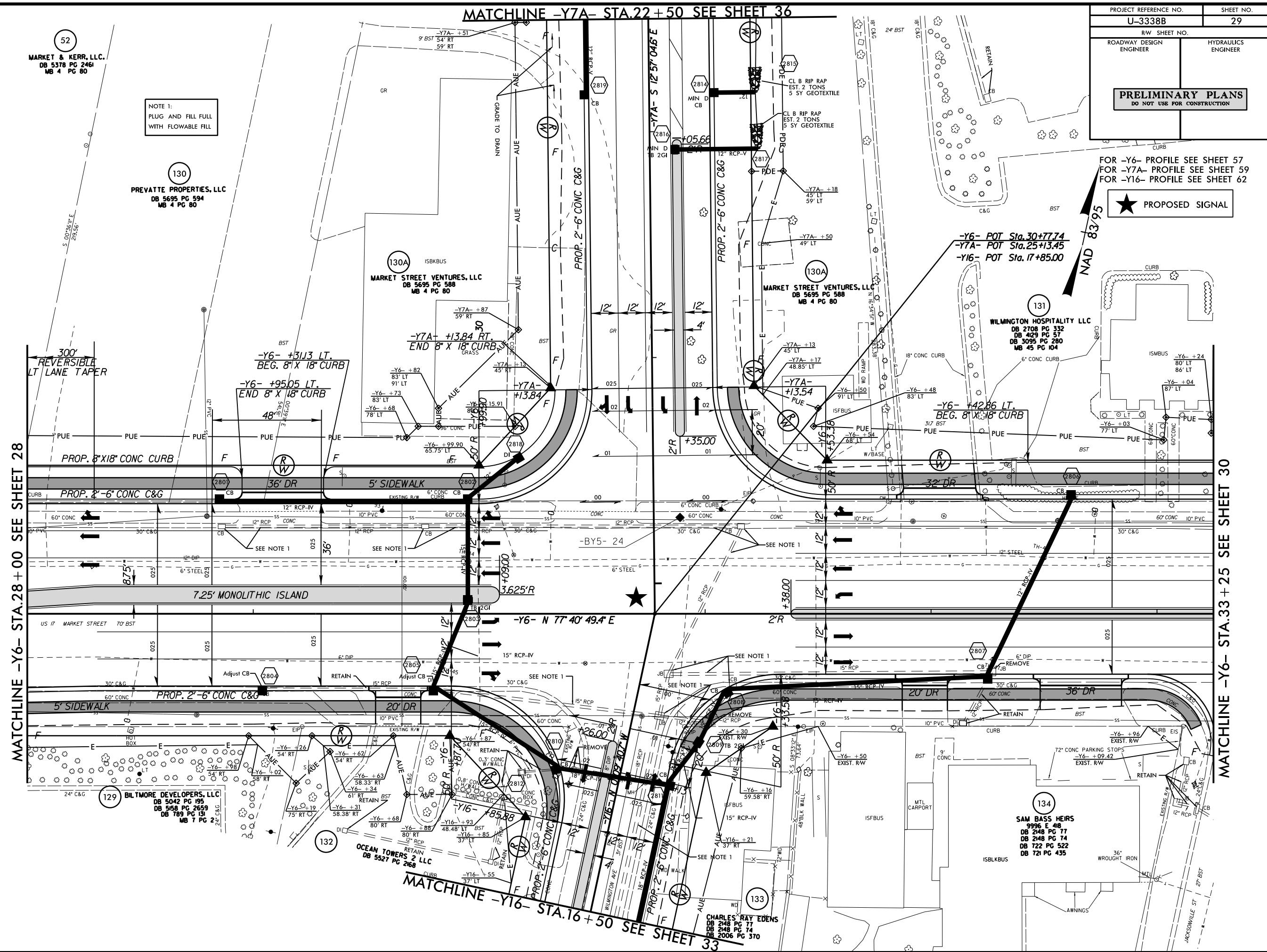


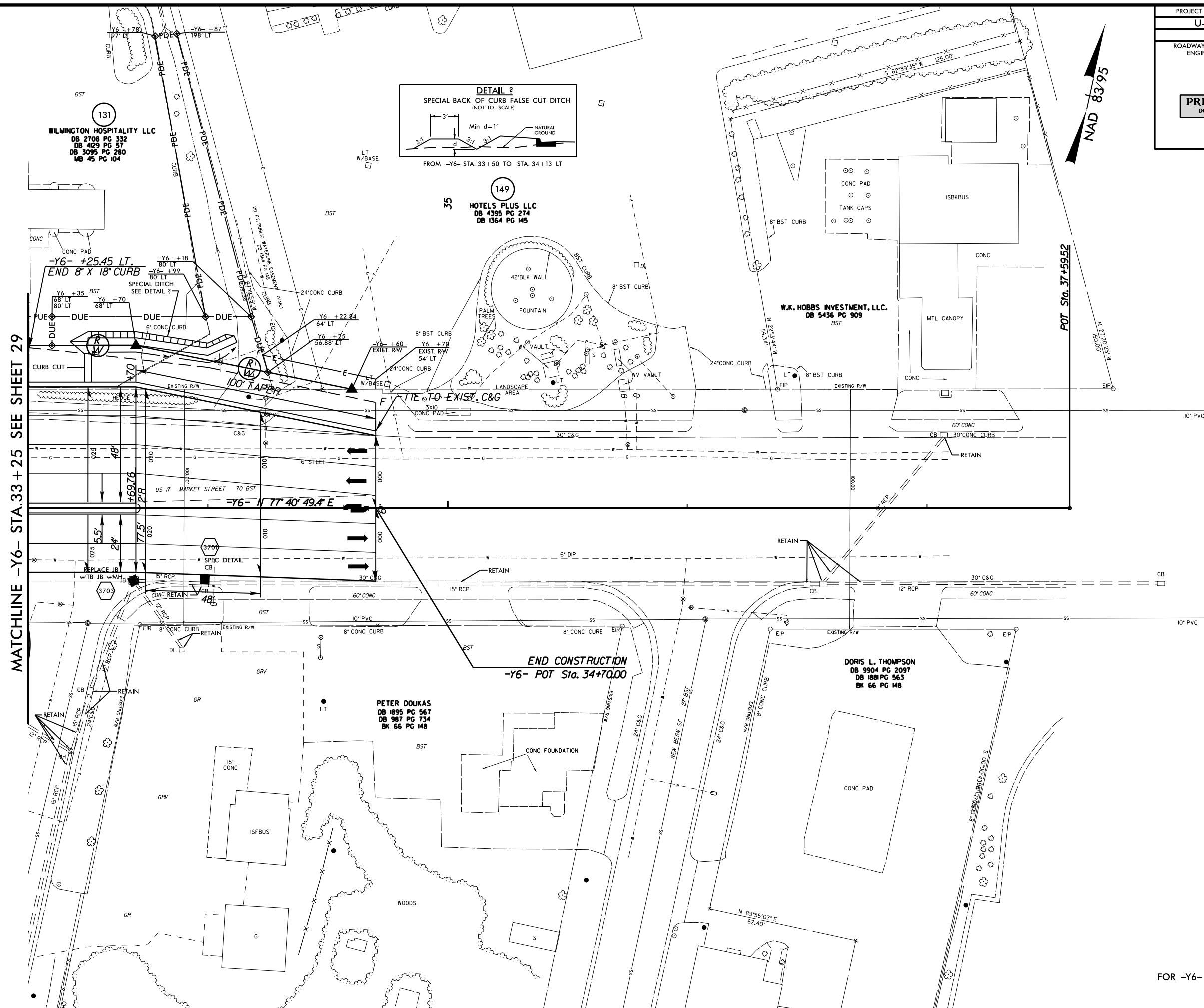
REVISIONS	
09/09/2012	- RW REVISION: DELETED DUE AT -Y6- STATION 26+00 LT. AND ADJUSTED THE PUE AT -Y6- STATION 25+90 LT. ON PARCEL 52. - JBW
04/09/14	- RW REVISIONS: CONVERTED PUE TO AUE ON PARCELS 46 AND 51. - JBW

04-APR-2014 12:29
 R:\Roadway\Proj\0338b-rdy-psh-s28.dgn
 \$\$\$USERNAME\$\$\$

MATCHLINE -Y6- STA.28+00 SEE SHEET 29

4-C& FOR -Y6- PROFILE SEE SHEET 56 & 57





FOR -Y6- PROFILE SEE SHEET 57

REVISIONS

8/17/99

2-JUL-2012 10:15
X:\Roadway\Proj\3338b-rdy-psh-s30.dgn
\$\$\$\$\$ISERTAME\$\$\$\$\$

FOR -Y5B- PROFILE SEE SHEET 55

-Y5B- POT Sta. 16+86.52

BEGIN CONSTRUCTION
-Y5B- PT Sta. 14+58.75

[illegible]

REVISIONS

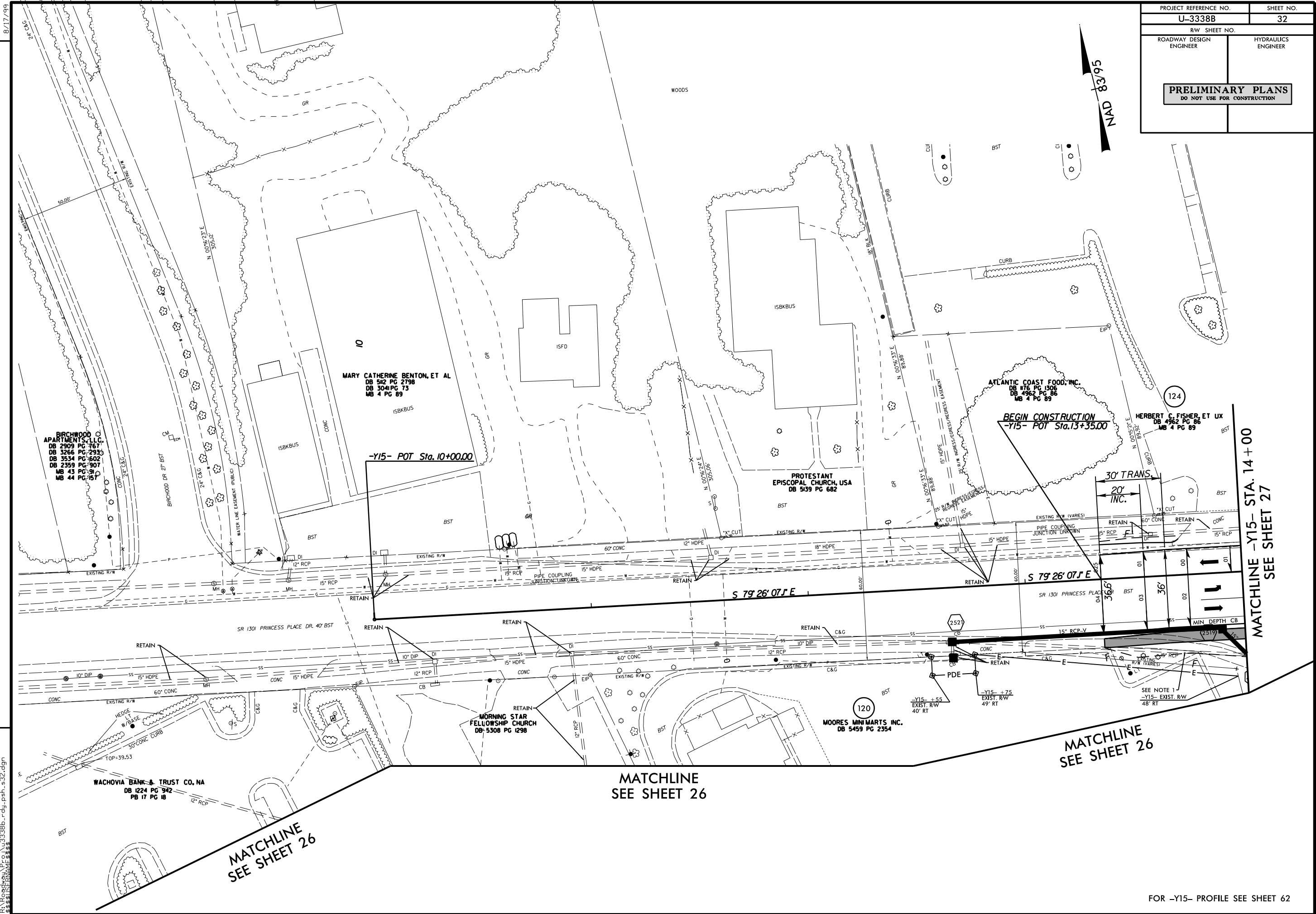
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R:\Roadway\Proj\3338b-rdy-psh-s31.dgn
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PROJECT REFERENCE NO.	SHEET NO.
U-3338B	32
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

NAD 83/95

05/17/13 RW REVISIONS: REVISED THE PDE AND TCE ON PARCEL 120; ELIMINATED THE TCE FROM -Y5- STA. 12+36.57 TO STA. 12+54.77 RT. ON PARCEL 120. - PIS

20-MAY-2013 10:36
R:\Roadway\Projects\U3338B\rdy-psn-a32.dgn
\$\$\$\$\$15.00 PER HOUR\$\$\$\$\$



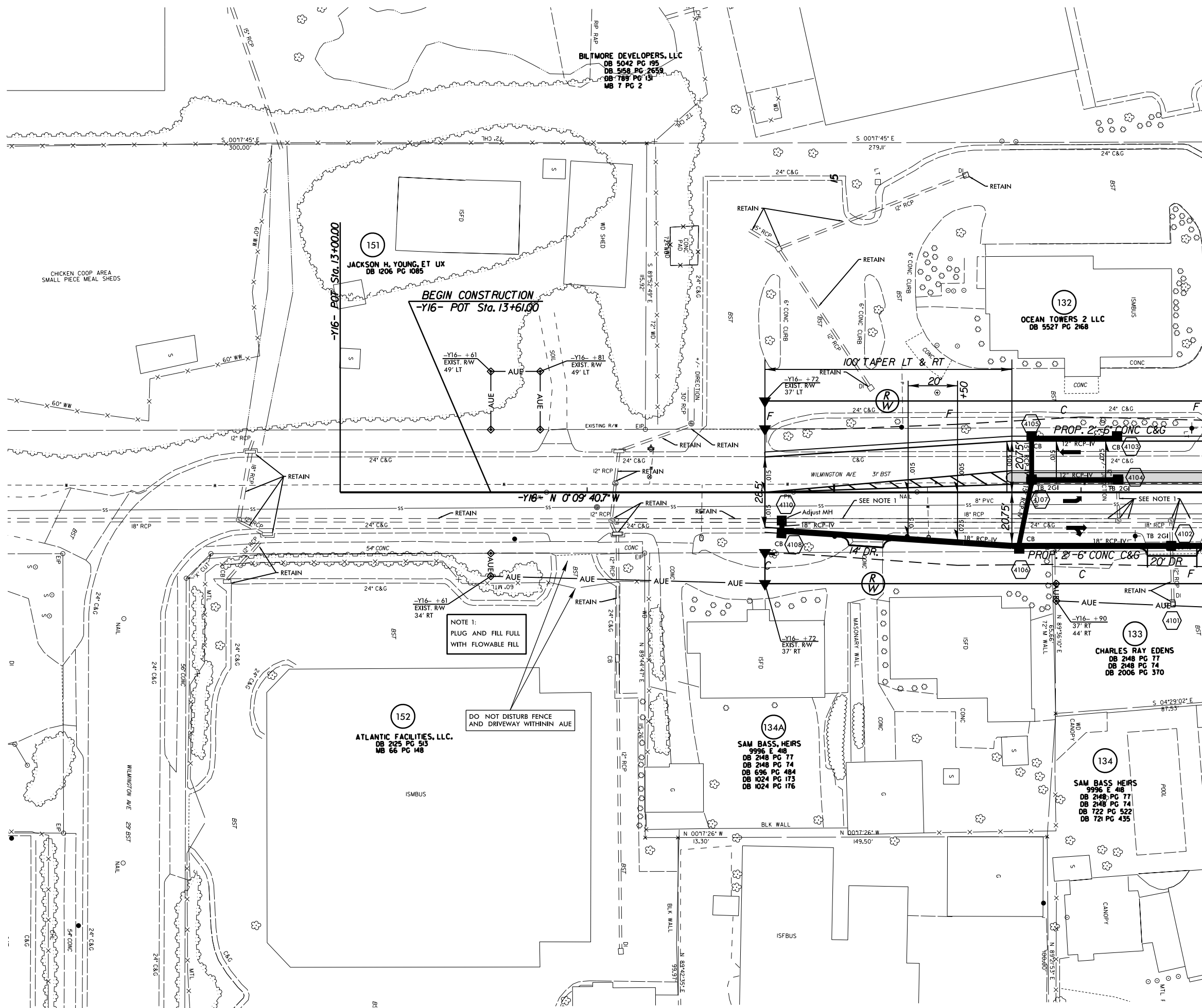
FOR -Y15- PROFILE SEE SHEET 62

PROJECT REFERENCE NO.	SHEET NO.
U-3338B	33
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

NAD 83/95

ST
MATCHLINE -Y16- STA.16+50 SEE SHEET 29

FOR -Y16- PROFILE SEE SHEET 62

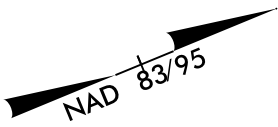


REVISIONS

09/2012 – RW REVISIONS: CONVERTED THE PUE TO AUE ON PARCELS 133, 134, 151, AND 152; EXTENDED THE AUE TO THE PROPOSED RIGHT OF WAY ON PARCEL 133; AND ELIMINATED THE PUE ON PARCELS 133 AND 134. – JBW
 05/2013 – RW REVISIONS: ADDED A "DO NOT DISTURB FENCE AND DRIVEWAY WITHIN AUE" NOTE ON PARCEL 152. – PJS
 06/14/13 – RW REVISIONS: SUBDIVIDED PARCEL 134 TO PARCELS 134 AND 134A; UPDATED DEED REFERENCE ON PARCELS 134 AND 134A. – JBW
 08/16/13 – RW REVISIONS: UPDATED PROPERTY OWNER NAME AND DEED REFERENCE ON PARCEL 152. – JBW

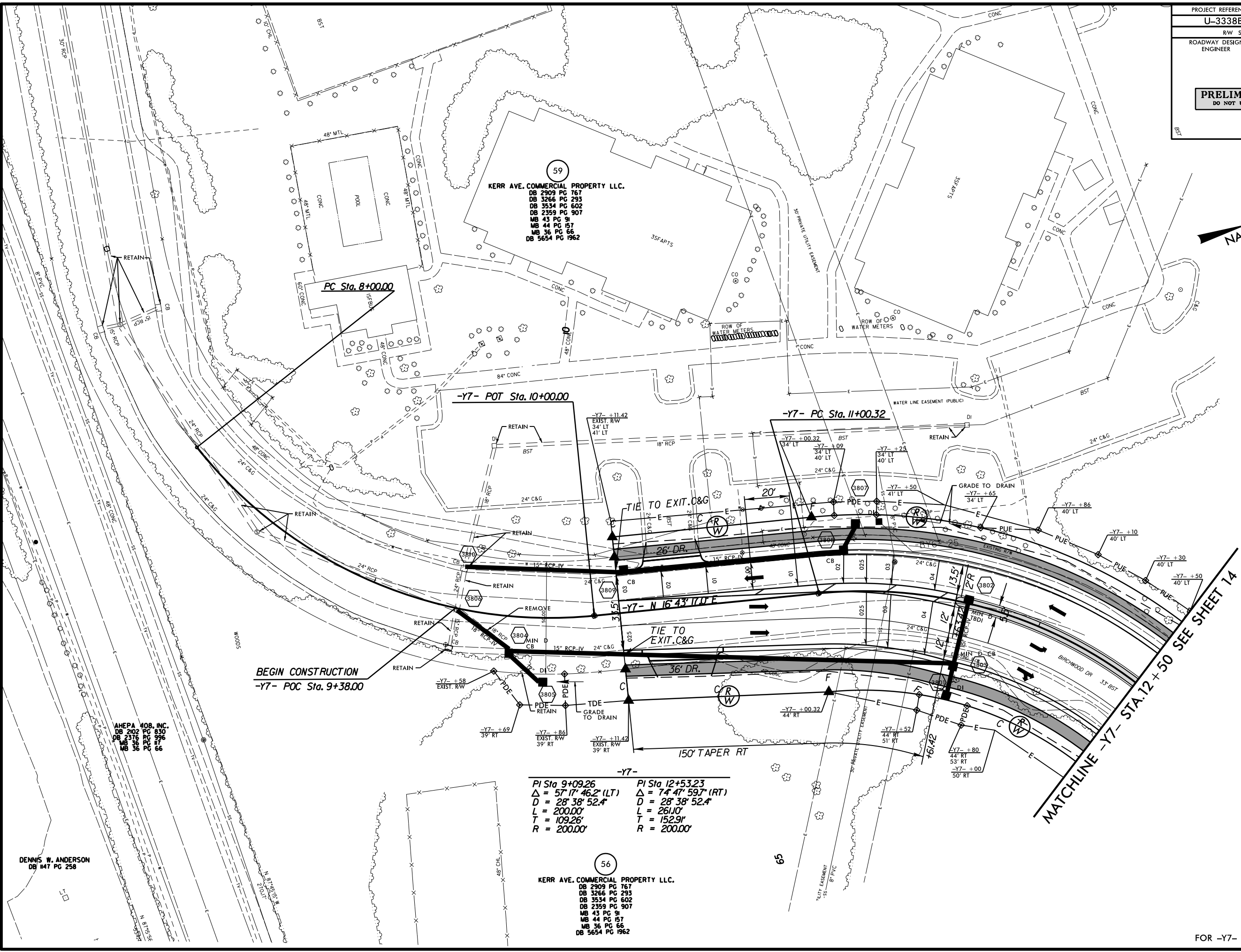
8/17/99

5-AUG-2013 14:46
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 #####USERNAME\$###



REVISIONS
05/13/13 - RW REVISIONS: UPDATED PROPERTY OWNER NAMES AND DEED REFERENCES ON PARCELS 56 AND 59 - PJS

8/17/99
14-MAY-2013 07:55
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\$\$\$\$\$
DENNIS W. ANDERSON
DB 147 PG 258



59
KERR AVE. COMMERCIAL PROPERTY LLC.
DB 2909 PG 767
DB 3266 PG 293
DB 3534 PG 602
DB 2359 PG 907
MB 43 PG 91
MB 44 PG 157
MB 36 PG 66
DB 5654 PG 1962

AHEPA 108, INC.
DB 202 PG 830
DB 2376 PG 996
MB 36 PG 66

PI Sta 9+09.26
 $\Delta = 57^{\circ}17'46.2"$ (LT)
 $D = 28^{\circ}38'52.4"$
 $L = 200.00'$
 $T = 109.26'$
 $R = 200.00'$

PI Sta 12+53.23
 $\Delta = 74^{\circ}47'59.7"$ (RT)
 $D = 28^{\circ}38'52.4"$
 $L = 261.00'$
 $T = 152.91'$
 $R = 200.00'$

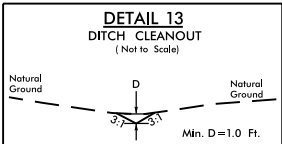
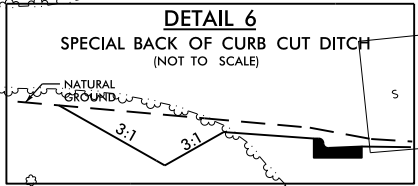
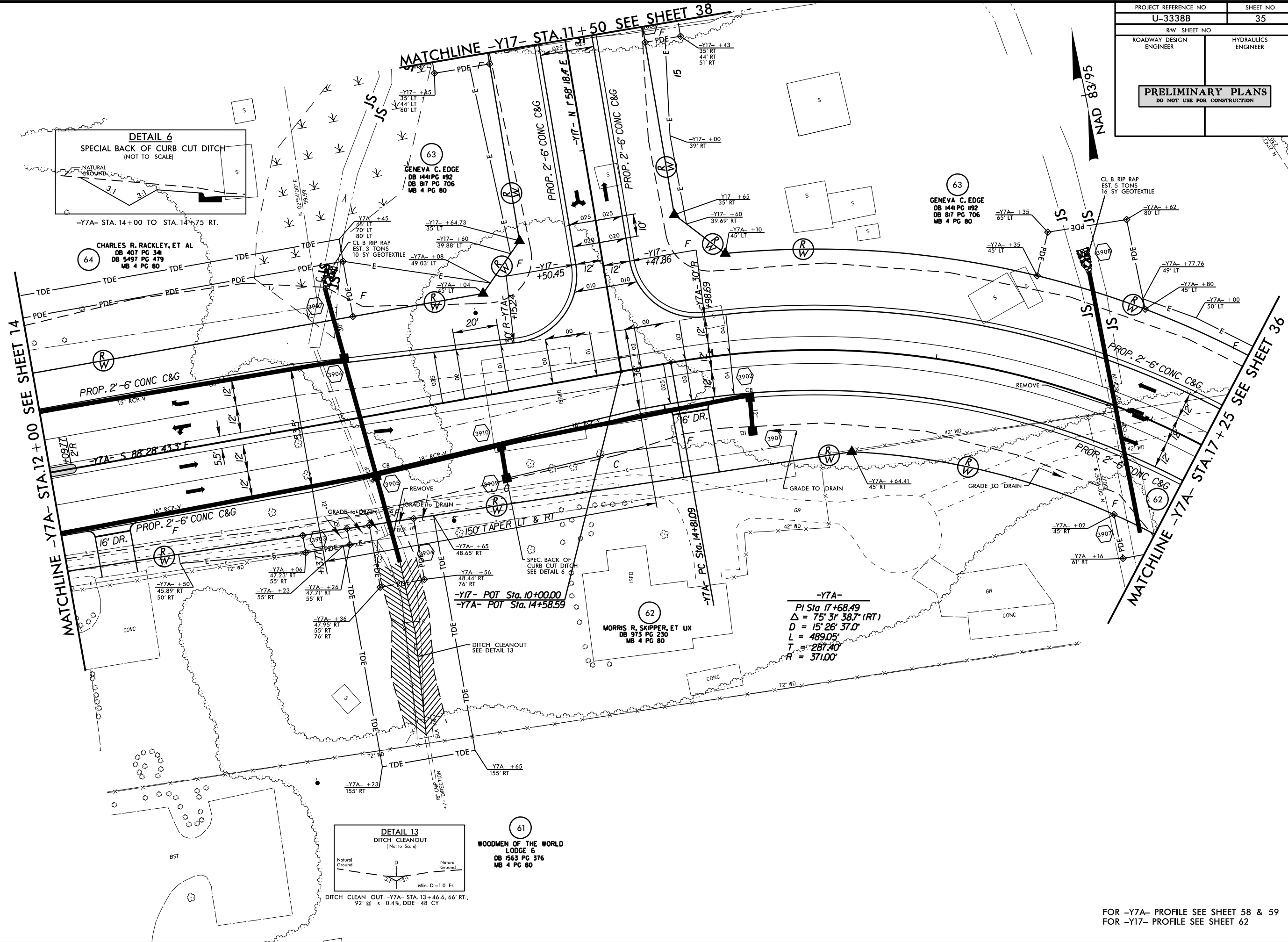
56
KERR AVE. COMMERCIAL PROPERTY LLC.
DB 2909 PG 767
DB 3266 PG 293
DB 3534 PG 602
DB 2359 PG 907
MB 43 PG 91
MB 44 PG 157
MB 36 PG 66
DB 5654 PG 1962

REVISIONS

05/13/13 - RW REVISIONS: REVISED PROPOSED RW, PDE, TDE AND TCE ON PARCEL 62; ELIMINATED TCE FROM -Y7A- STA. 13+65.00 TO STA. 14+18.00 RT. ON PARCEL 62. - PJS
 07/11/13 - RW REVISIONS: REVISED TDE TO PDE FROM -Y7A- STA. 11+92.00 TO STA. 13+10.00 LEFT ON PARCEL 64. - PJS
 12/09/13 - RW REVISIONS: REVISED PDE FROM -Y7A- STA. 16+35.00 TO STA. 16+80.00 LT. AND TCE FROM -Y7A- STA. 16+77.76 TO STA. 17+00.00 LT. ON PARCEL 63. - PJS

10-DEC-2013 09:59
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 \$\$\$\$LSP:RDMW\$\$\$\$

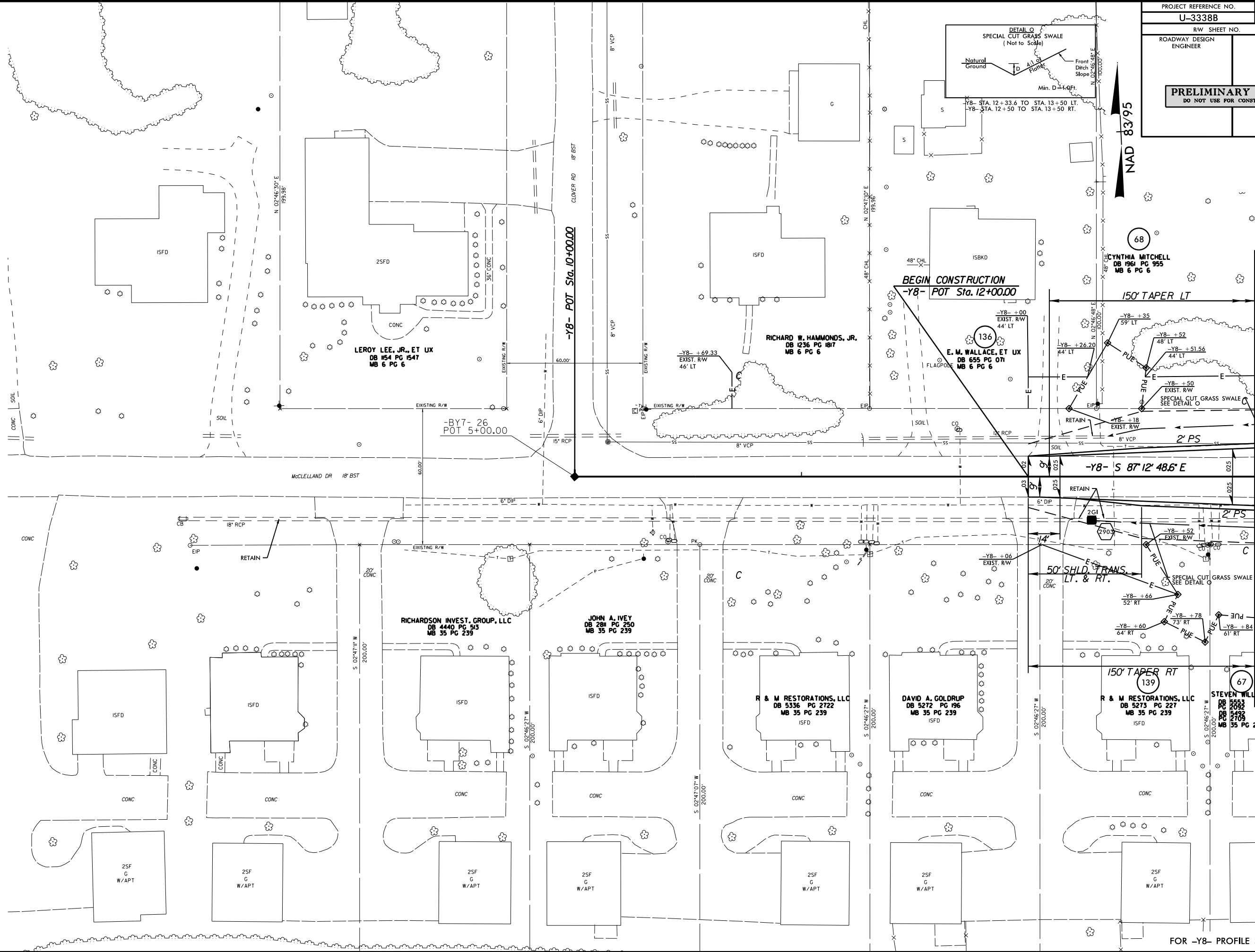
8/17/99



PROJECT REFERENCE NO.	SHEET NO.
U-3338B	35
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

FOR -Y7A- PROFILE SEE SHEET 58 & 59
 FOR -Y17- PROFILE SEE SHEET 62

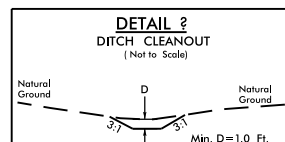
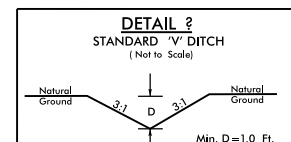
8/17/99
12-JUL-2012 10:16
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\$\$\$\$\$
REVISIONS



PROJECT REFERENCE NO.	SHEET NO.
U-3338B	37
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

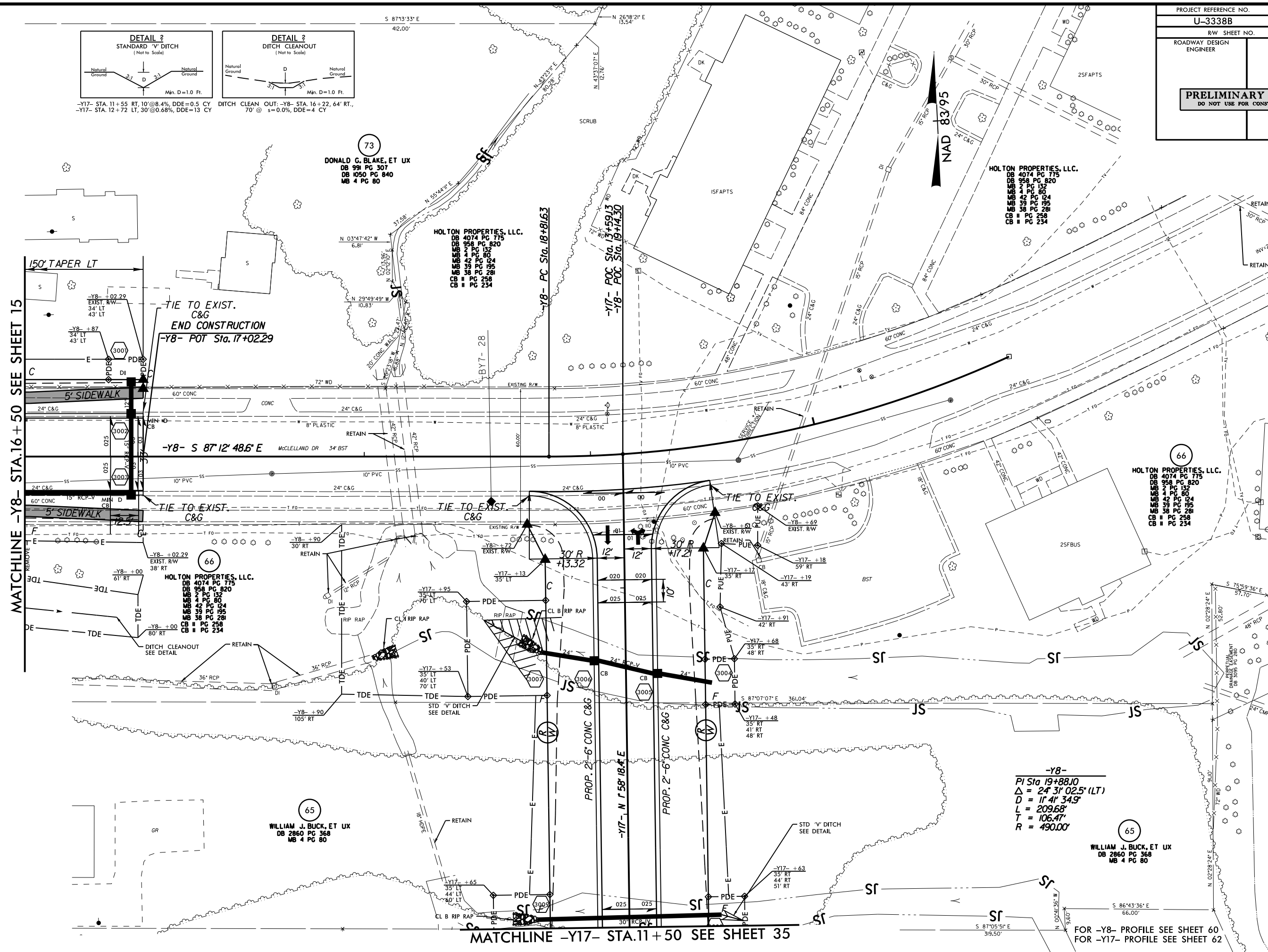
MATCHLINE -Y8- STA.13+00 SEE SHEET 15

FOR -Y8- PROFILE SEE SHEET 60



-Y17- STA. 11+55 RT, 10'@8.4%, DDE=0.5 CY
-Y17- STA. 12+72 LT, 30'@0.68%, DDE=13 CY

DITCH CLEAN OUT: -Y8- STA. 16+22, 64' RT.
70' @ s=0.0%. DDE=4 CY



-Y8-

PI Sta 19+88.10
 $\Delta = 24^\circ 31' 02.5" \text{ (LT)}$
 $D = 11^\circ 41' 34.9"$
 $L = 209.68'$
 $T = 106.47'$
 $R = 490.00'$

WILLIAM J. BUCK, ET UX
DB 2860 PG 368
MB 4 PG 80

FOR -Y8- PROFILE SEE SHEET 60
FOR -Y17- PROFILE SEE SHEET 62

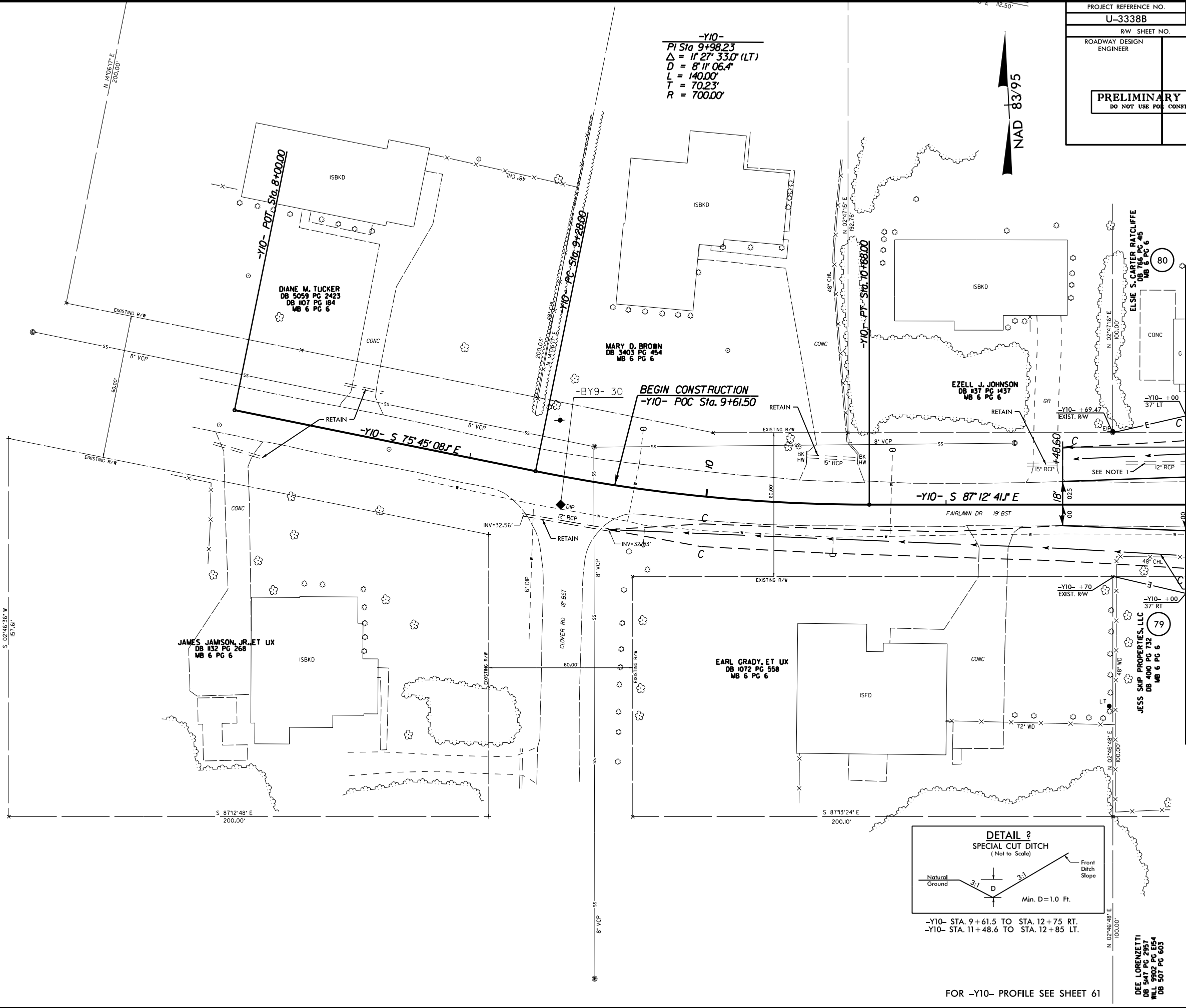
MATCHLINE -Y17- STA.11+50 SEE SHEET 35

REVISIONS

8/17/99

2-JUL-2012 10:16
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NOTE 1:
PLUG AND FILL FULL
WITH FLOWABLE FILL



PROJECT REFERENCE NO.		SHEET NO.
U-3338B		39
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		

MATCHLINE -Y10- STA.12+00 SEE SHEET 16

FOR -Y10- PROFILE SEE SHEET 61

NAD 83/95

MATCHLINE -Y12- STA. 16+50 SEE THIS SHEET

NAD 83/95

JAMES M. HARRELL, ET UX
DB 1595 PG 334
DB 1828 PG 257
MB 26 PG 34
MB 2 PG 132

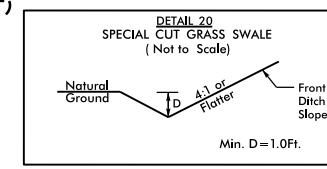
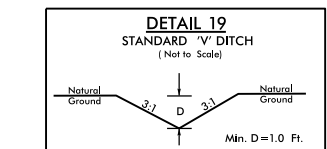
107
PROGRESS ENERGY
DB 486 PG 222
DB 472 PG 626
DB 546 PG 482
DB 1875 PG 473
DB 808 PG 623
MB 38 PG 242
MB 2 PG 132

TEDDY A. PROCTOR
DB 4036 PG 281
DB 486 PG 222
DB 2333 PG 073
DB 1901 PG 162
MB 2 PG 132

TEDDY A. PROCTOR
DB 4036 PG 281
DB 486 PG 222
DB 2333 PG 073
DB 1901 PG 162
MB 2 PG 132

-Y12-
PI Sta 14+28.83
 $\Delta = 1' 48" 12.8' (RT)$
 $D = 1' 08' 45.3'$
 $L = 157.39'$
 $T = 78.70'$
 $R = 5,000.00'$

-SRI-
PI Sta 11+57.67
 $\Delta = 20' 10' 19.0' (LT)$
 $D = 19' 05' 54.9'$
 $L = 105.62'$
 $T = 53.36'$
 $R = 300.00'$
 $SE = .04$



101
JAMES M. HARRELL, ET UX
DB 1595 PG 334
DB 1828 PG 257
MB 26 PG 34
MB 2 PG 132

101
JAMES M. HARRELL, ET UX
DB 1595 PG 334
DB 1828 PG 257
MB 26 PG 34
MB 2 PG 132

107
PROGRESS ENERGY
DB 486 PG 222
DB 472 PG 626
DB 546 PG 482
DB 1875 PG 473
DB 808 PG 623
MB 38 PG 242
MB 2 PG 132

108
TODDY A. PROCTOR
DB 4036 PG 281
DB 486 PG 222
DB 2333 PG 073
DB 1901 PG 162
MB 2 PG 132

FOR -SRI- PROFILE SEE SHEET 63

MATCHLINE -SRI- STA. 14+00 SEE SHEET 41

MATCHLINE -Y12- STA. 12+50 SEE SHEET 17

MATCHLINE -Y12- STA. 16+50
SEE THIS SHEET

REVISIONS
05/13/13 RW REVISION: ADDED A "MAINTAIN 24 HOUR ACCESS FOR PROGRESS ENERGY TO SUBSTATION" NOTE ON PARCEL 107. - PJS
08/16/13 RW REVISION: ADDED A DRIVEWAY AND A TEMPORARY CONSTRUCTION EASEMENT FROM -SRI- STA. 12+48.27 TO STA. 12+70.00 LT. ON PARCEL 107. - JBW
10/03/13 RW REVISION: ADDED DRIVEWAYS AT -Y12- STA. 14+40 +/- LT. AND AT -Y12- STA. 18+13 +/- LT. ON PARCEL 101; ADDED DRIVEWAY AT -SRI- STA. 13+80 +/- LT. ON PARCEL 108;
ELIMINATED ICE FROM -SRI- STA. 12+48.27 LT. TO -SRI- STA. 12+70.00 LT. ON PARCEL 107. - TEM

11-OCT-2013 10:25
R:\Roadway\Projects\U-3338B\rdy.psh.s40.dgn
3338B.DWG

REVISIONS	
09/20/2012	- RW REVISIONS: CHANGED PARCEL NUMBER 141 TO 111; AND REMOVED PARCEL NUMBER 140. - JBW
11/09/12	- RW REVISION: CHANGED PARCEL 142 TO PARCEL 112. - PJS
02/27/13	- RW REVISION: ADDED DRIVEWAY CONNECTIONS TO PARCEL 110; REVISED THE PDE AND TCE ON PARCEL 110; ADDED PDE ON PARCEL 111. - PJS
10/07/13	- RW REVISION: MOVED PARCEL NUMBER TO SOUTH OF PROPERTY LINE ON PARCEL 108. - TEM

1-OCT-2013 10:13
3: Roadway Pro Nu3338b rdu psh-s41.dan

