



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

June 3, 2008

US Army Corps of Engineers
Raleigh Regulatory Field Office
3331 Heritage Trade Drive, Suite 105
Wake Forest, NC 27587

ATTENTION: Eric Alsmeyer
NCDOT Coordinator

Dear Sir:

Subject: **Application for Section 404 Nationwide Permits 13 and 23 and Section 401 Water Quality Certification** for the replacement of Bridge No. 25 on SR 1206 (Russell Union Road) over Smith Creek, Warren County. Federal Aid Project Number BRZ-1206(5), WBS No. 33824.1.1, State Project No. 8.2411501, Division 5, T.I.P. No. B-4664

Debit WBS No. 33824.1.1 \$240.00

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 25 on SR 1206 (Russell Union Road) over Smith Creek. The project involves constructing a new bridge on roughly the existing horizontal alignment, modified slightly (centerline offset of approximately 15 ft at most) to reduce roadway curvature in order to provide a safer roadway. During construction, traffic will be maintained on an off-site detour. The existing bridge is currently in poor condition and in need of replacement. The new bridge is intended to provide a safer bridge structure consistent with federal and state standards.

The proposed bridge will be a three span (35 ft, 70 ft, 30 ft, respectively) box beam structure with a substructure of concrete caps and steel piles. The bridge will provide a clear roadway width of 34 ft 2 in consisting of two 11-foot travel lanes with asymmetrical shoulders of 4 ft 11 in and 7 ft 3 in. Please find the enclosed permit drawings and design plans for the subject project. A Categorical Exclusion (CE) was completed for this project in September 2006 and distributed shortly thereafter. Additional copies are available upon request.

IMPACTS TO WATERS OF THE UNITED STATES

The project is located in the Roanoke River Basin, sub-basin 03-02-07, hydrologic unit 03010106. Waters of the U.S. within the project study area include two perennial streams: Smith Creek [DWQ Index # 23-10] and an unnamed tributary to Smith Creek, and three riverine wetlands. Smith Creek is assigned a Best Usage Classification of C. There are no High Quality Waters (HQW), Water Supplies (WS-I: undeveloped watersheds or WS-II: predominately undeveloped watersheds), or Outstanding Resource

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS
NATURAL ENVIRONMENT UNIT
1598 MAIL SERVICE CENTER
RALEIGH NC 27699-1598

TELEPHONE: 919-715-1334 or
919-715-1335

FAX: 919-715-5501

WEBSITE: WWW.NCDOT.ORG

LOCATION:
2728 CAPITAL BLVD, SUITE 240
RALEIGH NC 27604

Waters (ORW) within 1.0 mile of the project study area. Smith Creek is on the 2006 Final 303(d) list of impaired waters due to exhibiting impaired biological activity resulting from erosion and sedimentation and for having low dissolved oxygen levels attributed to agricultural runoff. Eric Alsmeyer of the U.S. Army Corps of Engineers (USACE) issued a written Jurisdictional Determination (JD) for Waters of the U.S. within the project study area on 2/16/2005. This JD expires on 2/16/2010.

Permanent Impacts

Construction of the piles for interior bent #2 (on the north side of Smith Creek) will require some channel realignment and placement of rip-rap along the channel bed and banks of the unnamed tributary to Smith Creek (Site 1, sheet 6 of 7). This will result in 50 linear feet of permanent stream impacts to the unnamed tributary.

There are no permanent wetland impacts resulting from this project.

Temporary Impacts

There are no temporary stream or wetland impacts resulting from this project.

Bank Stabilization Impacts (NWP 13)

Because of the proximity of both interior bents to the banks of Smith Creek, rip-rap will be placed along both banks of Smith Creek to prevent scouring around the piles of the proposed bridge (Site 2, sheet 6 of 7). The rip-rap will extend below the ordinary high water mark, but no material will be placed on the bottom of the creek bed. The bank stabilization will impact 50 linear feet of Smith Creek.

Utility Impacts

A directionally bored telephone/data cable will be installed under Smith Creek within the existing right of way. An existing aerial cable will be not need to be relocated; therefore there will be no utility impacts resulting from this project.

Bridge Demolition

The existing three-span bridge totaling 53 ft in length has an asphalt wearing surface on a timber deck and joist superstructure supported by timber caps and piles with timber abutments. NCDOT will remove the existing structure without dropping any components into the creek. Best Management Practices for Bridge Demolition and Removal will be implemented during removal of the bridge.

FEDERALLY PROTECTED SPECIES

Plants and animals with federal classifications of Endangered (E), Threatened (T), Proposed Endangered (PE), and Proposed Threatened (PT) are protected under provisions of Section 7 and Section 9 of the Endangered Species Act (ESA) of 1973, as amended. The United States Fish and Wildlife Service (USFWS) lists two species for Warren County (Table 1).

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Table 1. Federally Protected Species in Warren County, NC

Common Name	Scientific Name	Federal Status*	Biological Conclusion	Habitat Present
Dwarf wedgemussel	<i>Alasmidonta heterodon</i>	E	No effect	Yes
Tar River spinymussel	<i>Elliptio steinstansana</i>	E	No effect	No

*E= endangered

A mussel survey was conducted at the project site on 22 March 2005 by NCDOT biologists. No freshwater mussels of any species were found; only Asian clams were observed. No habitat exists for the Tar River spiny mussel, though marginal habitat does exist for the dwarf wedgemussel. Neither species of protected mussels have ever been found in the Roanoke River Basin. Therefore, it has been concluded that this project will have no effect on either mussel species, and no further surveys are necessary.

The bald eagle (*Haliaeetus leucocephalus*) was delisted on 8 August 2007 but is still protected under the Bald and Golden Eagle Protection Act. While still listed as threatened under the ESA for Warren County, a bald eagle survey was conducted on 15 October 2005 by NCDOT biologists. No eagles or nests were observed. Furthermore, large bodies of open water suitable for foraging do not exist within 1.0 mile of the bald eagle survey area. Therefore, this project will not affect the bald eagle and no further surveys are necessary.

MITIGATION OPTIONS

Avoidance and Minimization and Compensatory Mitigation

The NCDOT is committed to incorporating all reasonable and practicable design features to avoid and minimize jurisdictional impacts, and to provide full compensatory mitigation of all remaining, unavoidable jurisdictional impacts. Avoidance measures were taken during the planning and NEPA compliance stages; minimization measures were incorporated as part of the project design.

According to the Clean Water Act (CWA) §404(b)(1) guidelines, NCDOT must avoid, minimize, and mitigate, in sequential order, impacts to waters of the US. The following is a list of the project's jurisdictional stream and wetland avoidance/minimization activities proposed or completed by NCDOT:

Avoidance/Minimization

- Temporary construction impacts due to erosion and sedimentation will be minimized through implementation of stringent erosion control methods and use of Best Management Practices (BMPs).
- Design Standards in Sensitive Watersheds will be implemented.
- Best Management Practices for Protection of Surface Waters will be implemented.
- The proposed bridge will be over 2.5 times longer than the existing bridge (135 ft compared to 53 ft). Old approach fill material will be excavated, thereby restoring a greater area of the floodplain in the vicinity of the crossing to its original elevation.
- The proposed bridge will have no bents in Smith Creek. In order to avoid permanent impacts to Smith Creek, interior bents will be located on both banks of the creek, resulting in impacts to the unnamed tributary.
- The bridge and roadway will be constructed on roughly the existing horizontal alignment, avoiding impacts to adjacent wetlands.
- An off-site detour will be utilized during construction.

Compensatory Mitigation:

No mitigation is proposed for the 50 linear feet of permanent stream impacts to the unnamed tributary to Smith Creek. The proposed bridge was designed to avoid permanent impacts to Smith Creek by placing both interior bents on the banks of the creek rather than in the creek itself. Though avoiding impacts to Smith Creek, this design does impact the smaller unnamed tributary near the interior bent on the north side of Smith Creek. No mitigation is proposed for the 50 feet of bank stabilization along Smith Creek because this action will likely have very minimal impacts to aquatic life since no material will be placed on the stream bed.

SCHEDULE

The project calls for a letting of 16 December 2008 (review date of 28 October 2008) with a date of availability of 27 January 2009. It is expected that the contractor will choose to start construction in January 2009.

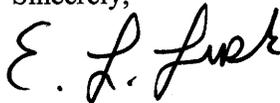
REGULATORY APPROVALS

Section 404 Permit: The project has been processed by the Federal Highway Administration as a "Categorical Exclusion" in accordance with 23 CFR 771.115(b). The NCDOT requests that the activities in this application be authorized by Nationwide Permits 13 and 23 (72 FR 11092; March 12, 2007).

Section 401 Permit: We anticipate Section 401 General Water Quality Certification (WQC) numbers 3689 and 3701 will apply to this project. Written approval will be required for WQC #3701. In compliance with Section 143-215.3D(e) of the NCAC, we will provide \$240.00 as payment for processing the Section 401 permit application as previously noted in this application (see subject line). In accordance with 15A NCAC 2H, Section .0500(a) and 15A NCAC 2B.0200 we are providing five copies of this application to the North Carolina Department of Environment and Natural Resources, Division of Water Quality, for their review.

A copy of this permit application will be posted on the NCDOT website at: <http://www.ncdot.org/doh/preconstruct/pe/>. If you have any questions or need additional information, please call Duncan Quinn at 919-715-5524.

Sincerely,



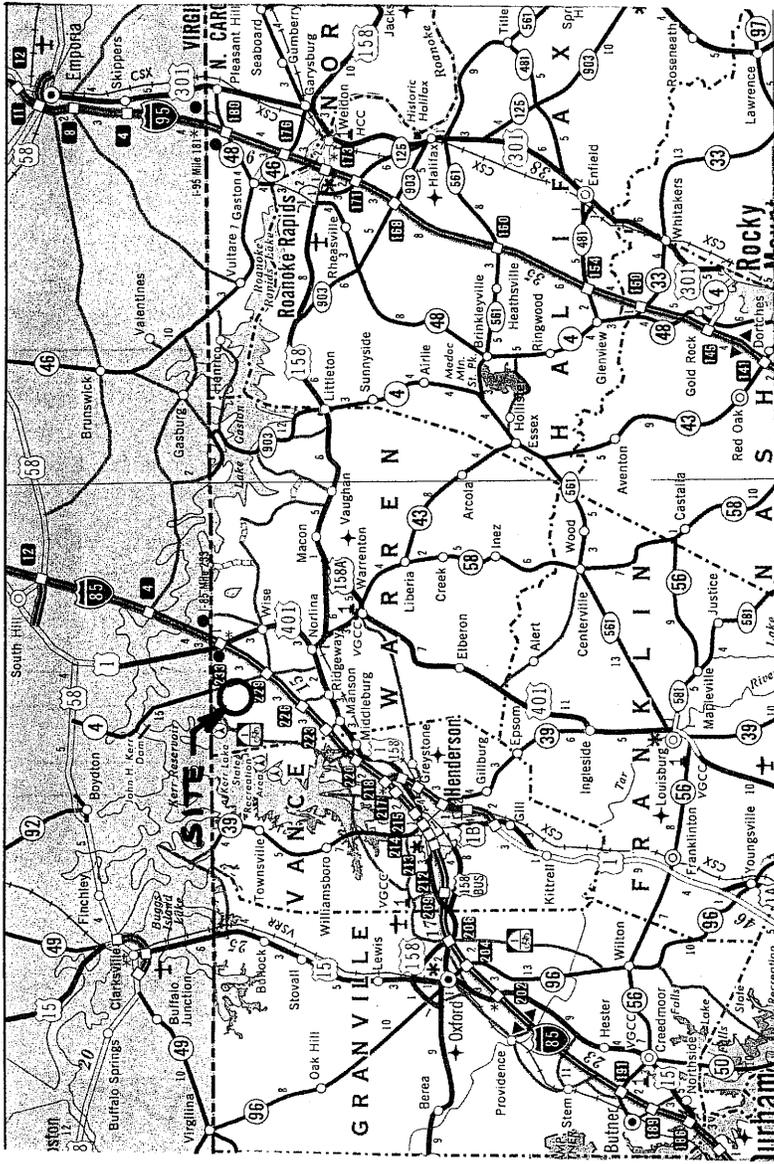
for Gregory J. Thorpe, Ph.D.
Environmental Management Director, PDEA

w/attachment

Mr. Brian Wrenn, NCDWQ (5 Copies)

W/o attachment (see website for attachments)

Dr. David Chang, P.E., Hydraulics
Mr. Mark Staley, Roadside Environmental
Mr. Greg Perfetti, P.E., Structure Design
Mr. Victor Barbour, P.E., Project Services Unit
Mr. J. Wally Bowman, PE., Division Engineer
Mr. Chris Murray, DEO
Mr. Jay Bennett, P.E., Roadway Design
Mr. Majed Alghandour, P. E., Programming and TIP
Mr. Art McMillan, P.E., Highway Design
Mr. Scott McLendon, USACE, Wilmington
Mr. Gary Jordan, USFWS
Mr. Travis Wilson, NCWRC
Ms. Natalie Lockhart, PDEA

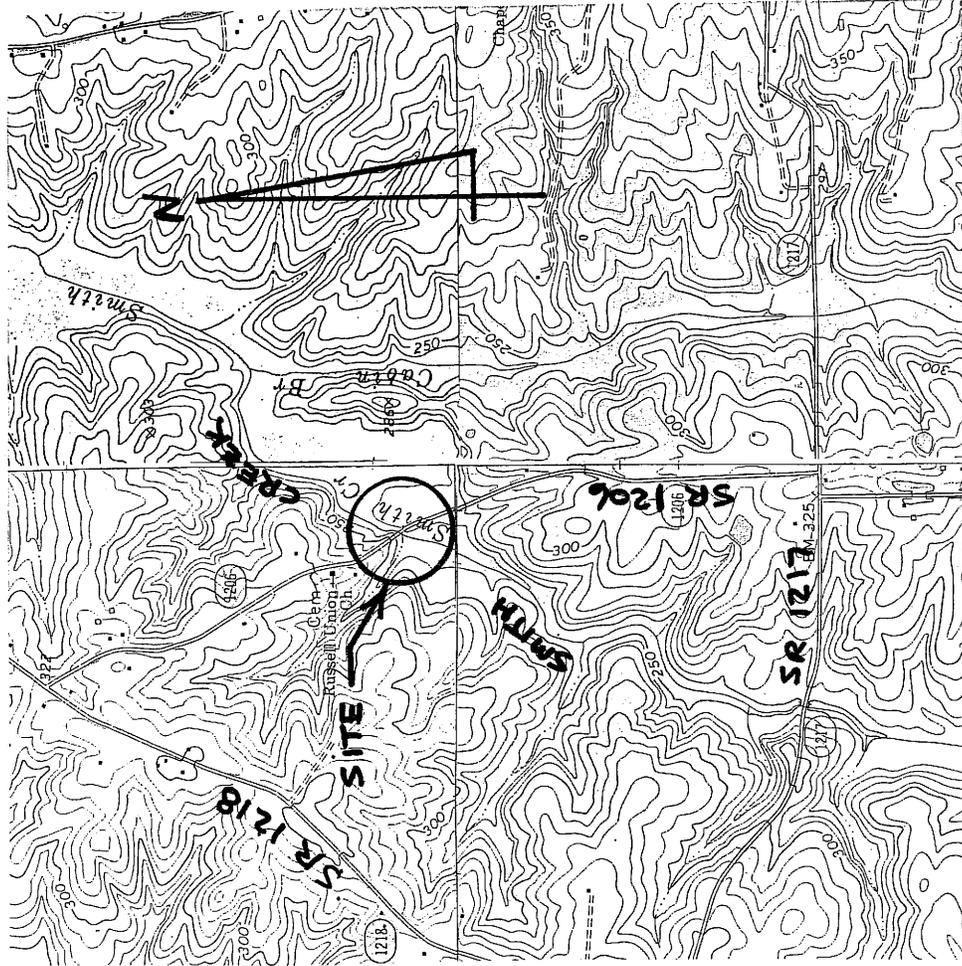


VICINITY MAP

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

WARREN COUNTY
WBS - 33824.1.1 (B-4664)

SHEET 1 of 7 2/1/2008



USGS QUAD MAP
SCALE: 1" = 2000'

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

WARREN COUNTY
WBS - 33824.1.1 (B-4664)

2 of 7

1/31/2008

SHEET



Property Owner Contact Report

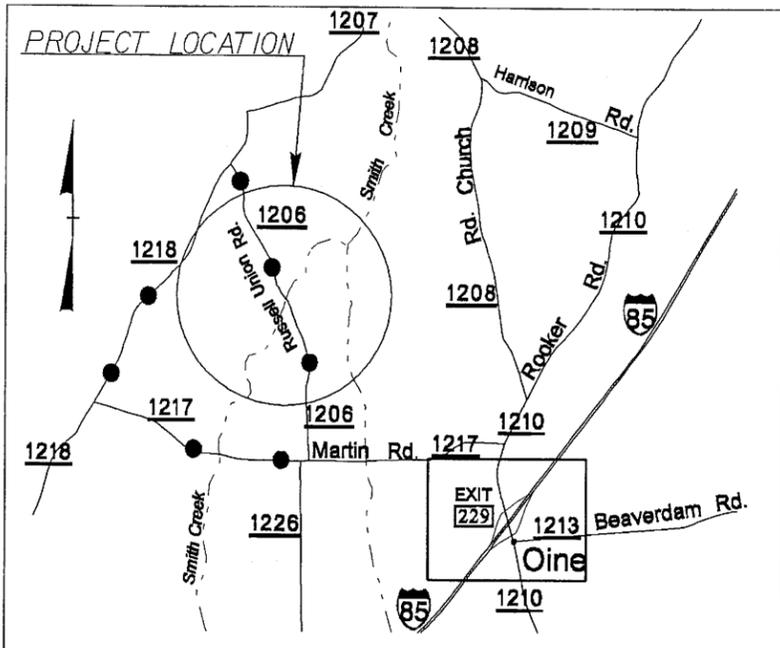
TIP # B-4664

Owner Last Name/ Business	Owner First Name	Address	City/Town	State	Zip Code	Contact/ Relationship	Home Phone	Contacted By	Contact Date	How Contacted	Comments
②	Blue Sky Timber Properties, LLC	1515 Bourne St. Atlantiv Region	Georgetown	SC	29440			J E Lee	May 2005	Letter	Certified Letter
⑤	BoBo & Others	Eunice	Bronx	NY	10459			J E Lee	May 2005	Letter	Certified Letter
	Brodie	Ola		NC							
⑥	Harris	Frank A. Jr. & Emmagean	Washington	DC	20011			J E Lee	May 2005	Letter	Certified Letter
	Jefferson	Charlie	New York	NY	10037						
④	Jones & Others	Dorothy	New York	NY	10029			J E Lee	May 2005	Letter	Certified Letter
①	Patillo	Charlie & Jean	Philadelphia	PA	19132			J E Lee	May 2005	Letter	Certified Letter
	Perry	Marion		NC							
	Russell	Beachie		NC							
③	Thomas	Marie H.	Norlina	NC	27563			J E Lee	May 2005	Letter	Certified Letter
	Wayman	Thomas		NC							

05/08/99

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

TIP PROJECT: B-4664



VICINITY MAP

—••••• OFF SITE DETOUR

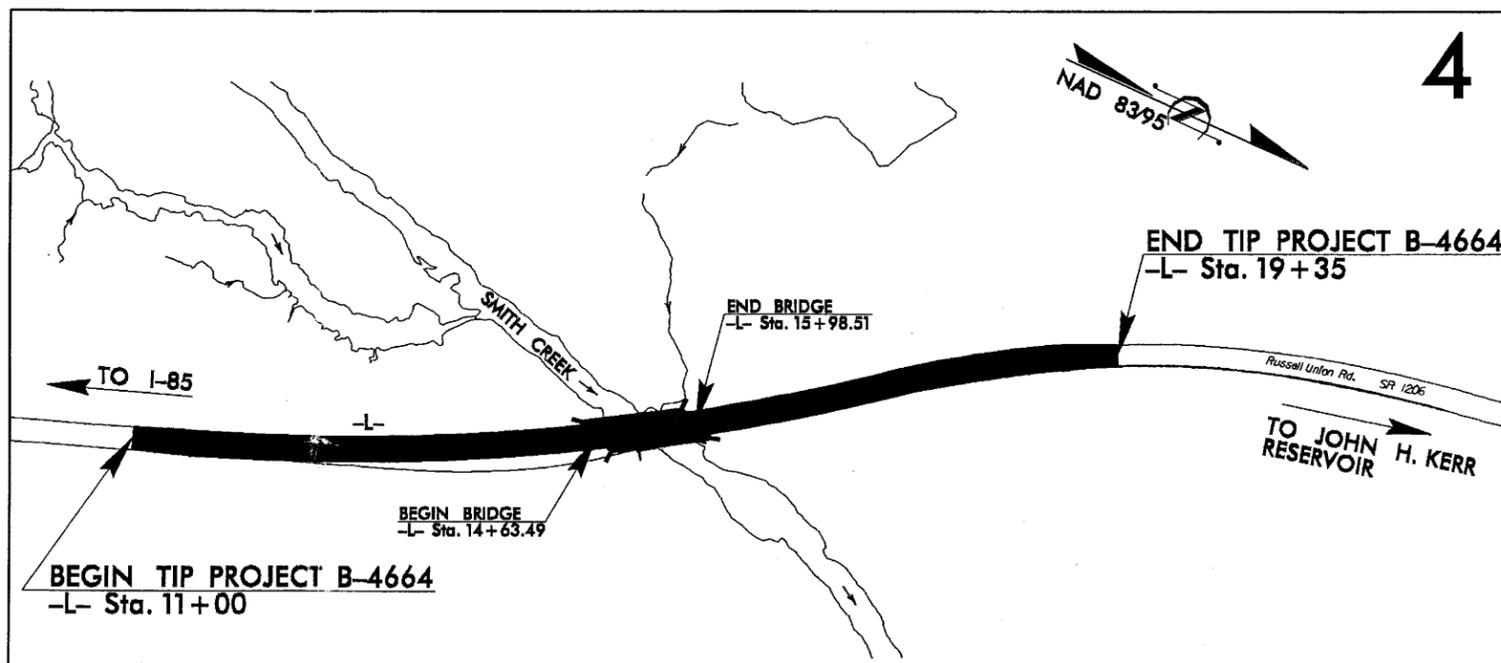
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WARREN COUNTY

**LOCATION: BRIDGE NO. 25 OVER SMITH CREEK
ON SR 1206, RUSSELL UNION ROAD**

TYPE OF WORK: GRADING, PAVING, DRAINAGE AND STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4664	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
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33824.2.1	BRZ-1206(5)	RW, UTIL.	
Permit Drawing Sheet 5 of 7			

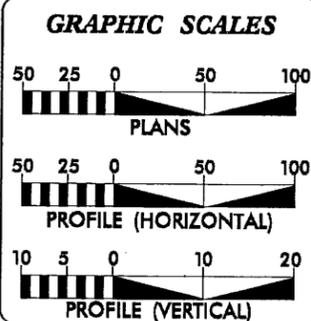


WETLAND PERMIT

**DESIGN SPEED EXCEPTION REQUIRED

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

CONTRACT:



DESIGN DATA

2007 =	200 VPD
ADT 2030 =	600 VPD
DHV =	13 %
D =	60 %
T =	3 % *
**V =	45 MPH
(* TTST 1% & DUAL 2%)	

PROJECT LENGTH

Length Roadway TIP Project B-4664 =	0.132 mi
Length Structure TIP Project B-4664 =	0.026 mi
Total Length TIP Project B-4664 =	0.158 mi

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

2006 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: JULY 3, 2007	JAMES A. SPEER, PE PROJECT ENGINEER
LETTING DATE: DECEMBER 16, 2008	JOHN C. LANSFORD, PE PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.

**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**

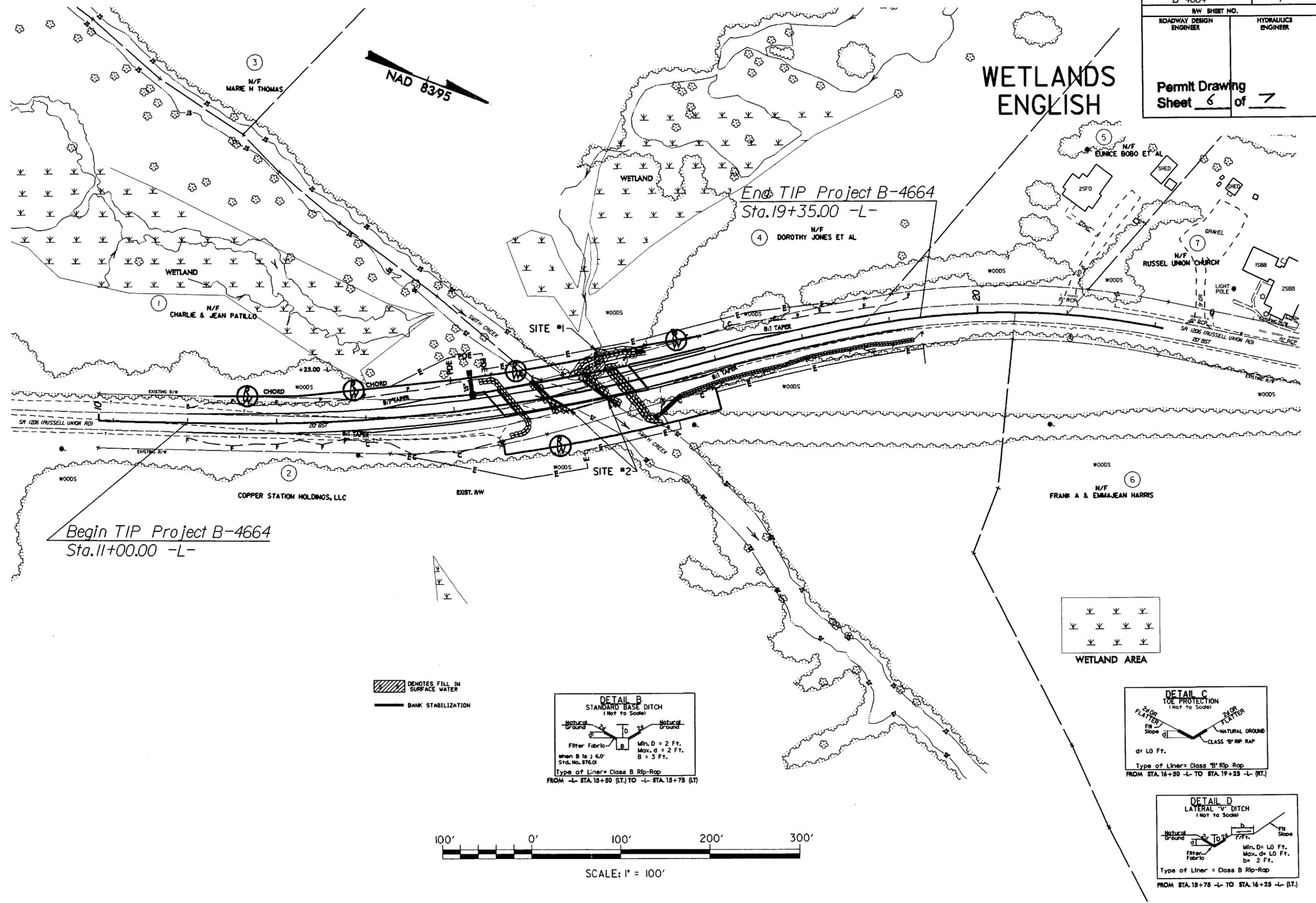
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RW SHEET NO. ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
Permit Drawing Sheet <u>6</u> of <u>7</u>			

WETLANDS ENGLISH

NAD 8395



REVISIONS

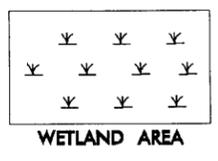
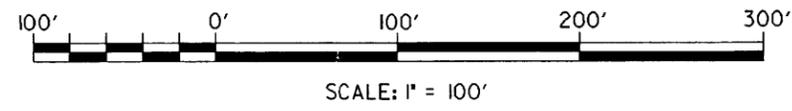
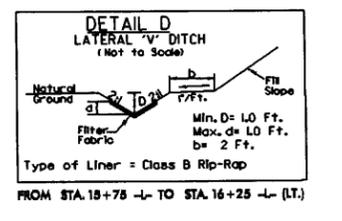
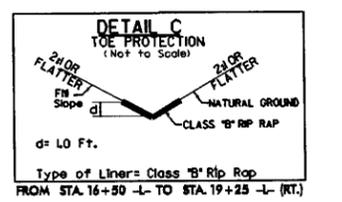
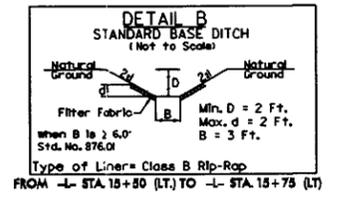
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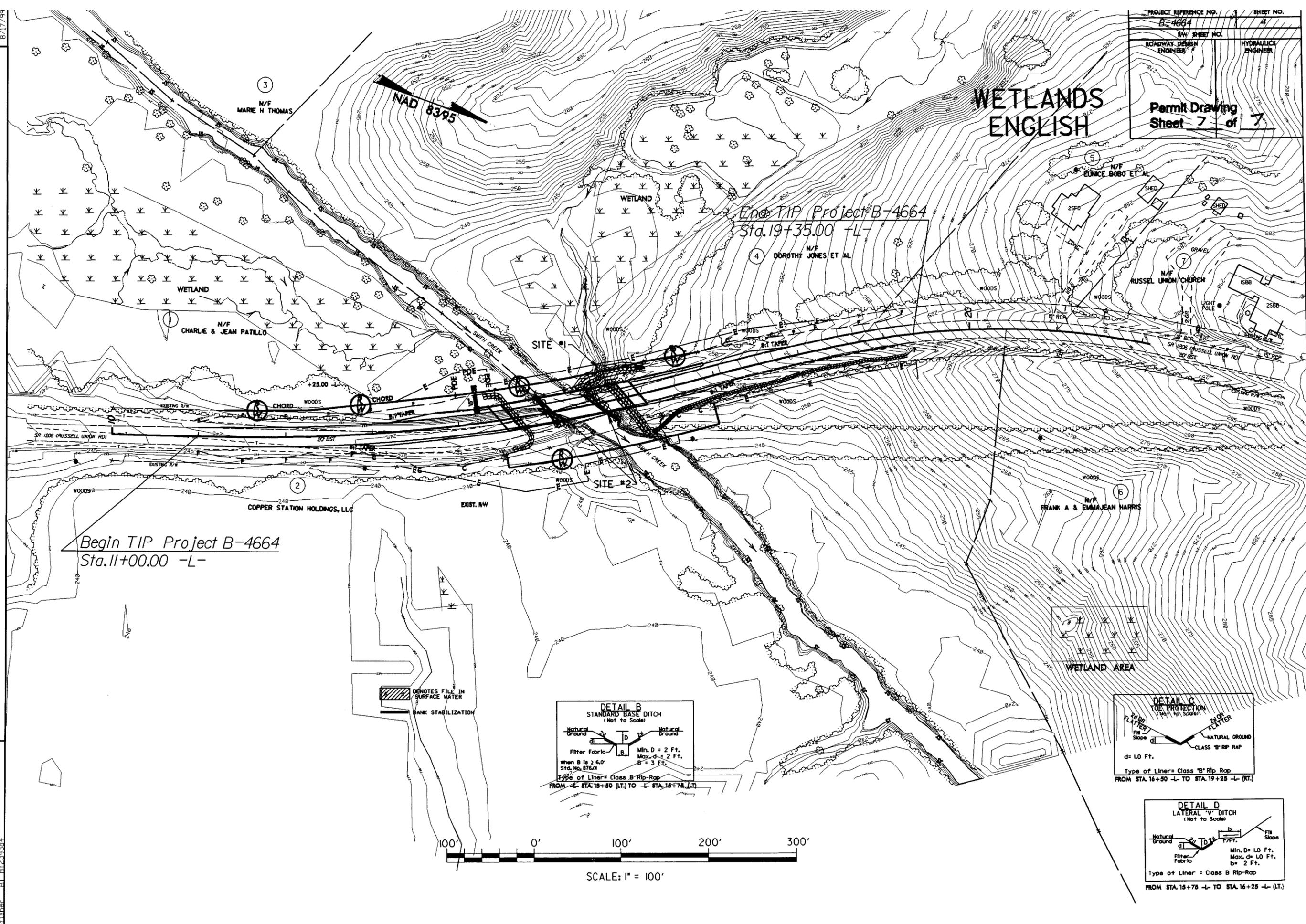
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/// DENOTES FILL IN SURFACE WATER
— BANK STABILIZATION



WETLANDS
ENGLISH



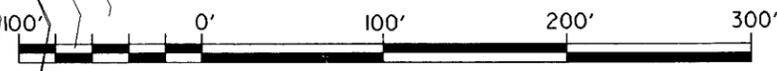
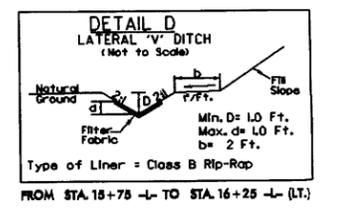
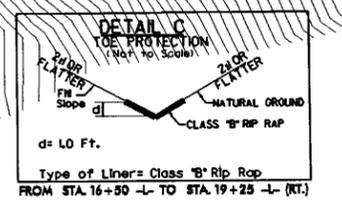
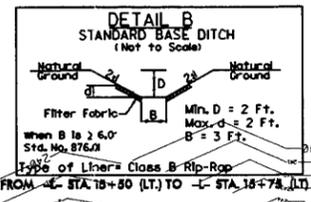
REVISIONS

R/W REVISION 10/8/07 JCL
 CHANGED PROPERTY OWNER NAME ON PARCEL 2

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 11/23/07

Begin TIP Project B-4664
Sta. 11+00.00 -L-

End TIP Project B-4664
Sta. 19+35.00 -L-



SCALE: 1" = 100'

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4664	1	
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
33824.1.1	BRZ-1206(5)	P.E.	
33824.2.1	BRZ-1206(5)	R/W, UTIL.	
33824.3.1	BRZ-1206(5)	Construction	

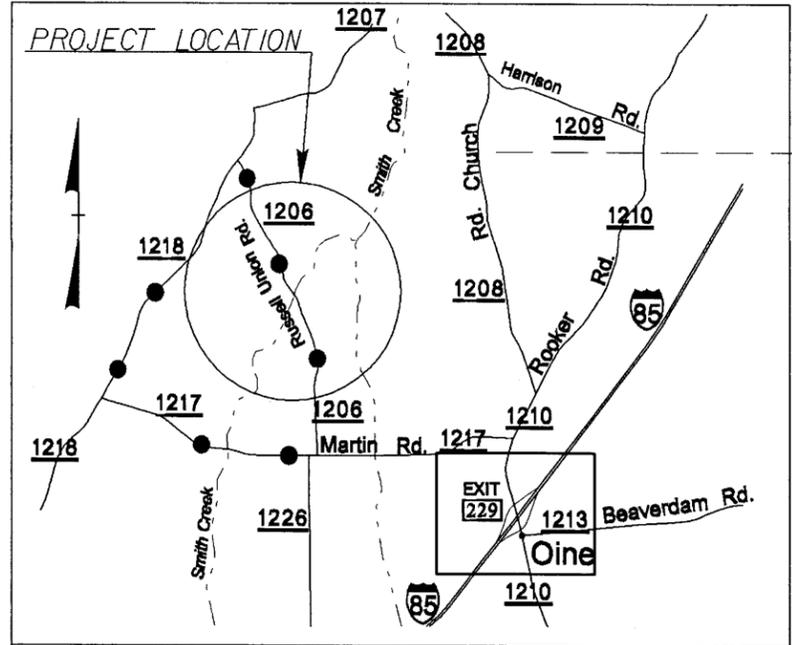
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WARREN COUNTY

LOCATION: **BRIDGE NO. 25 OVER SMITH CREEK
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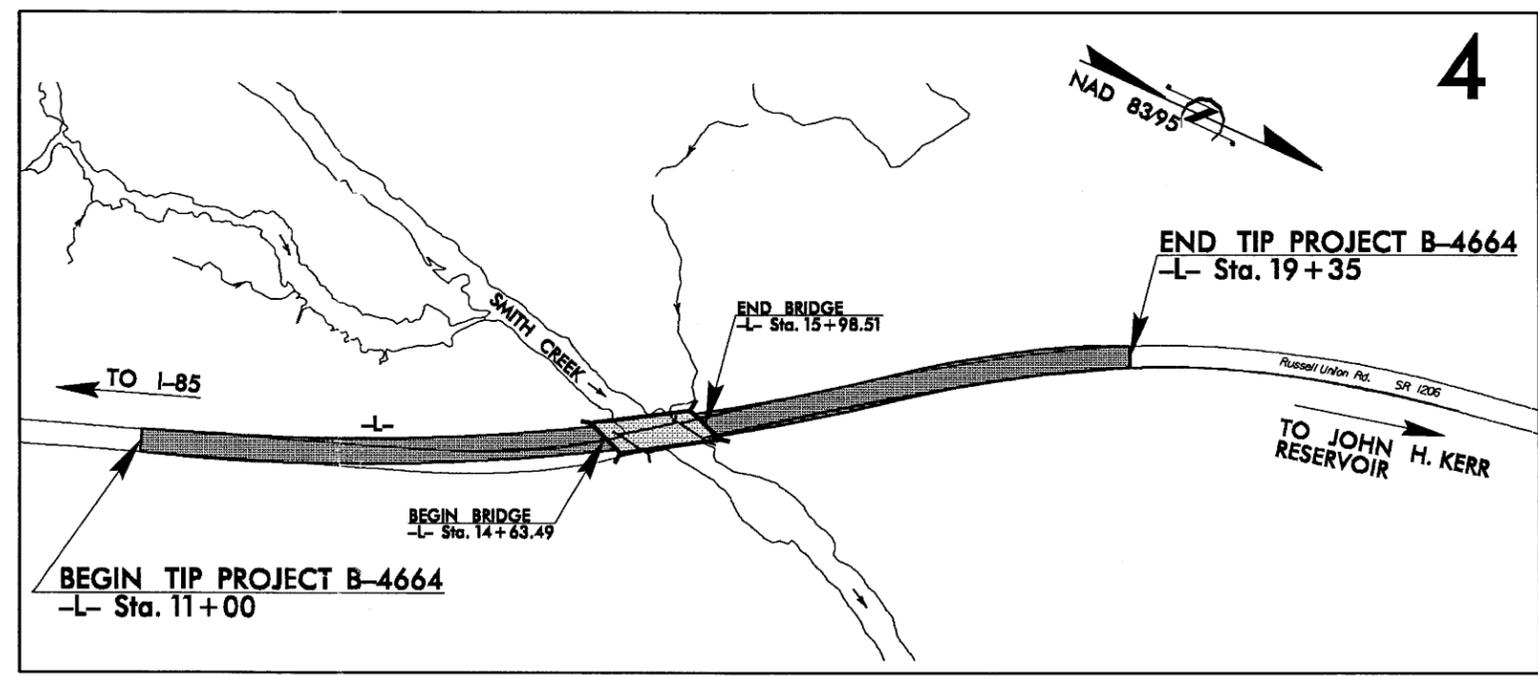
TYPE OF WORK: **GRADING, PAVING, DRAINAGE AND STRUCTURE**

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



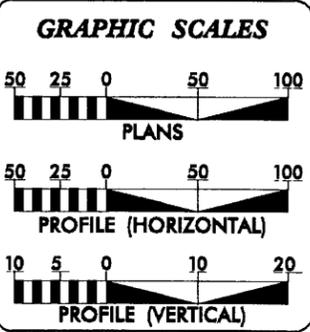
VICINITY MAP

●●●●● OFF SITE DETOUR



**DESIGN SPEED EXCEPTION REQUIRED

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



DESIGN DATA

2007 =	200 YPD
ADT 2030 =	600 YPD
DHV =	13 %
D =	60 %
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**V =	45 MPH
(* TTST 1% & DUAL 2%)	

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	DECEMBER 16, 2008

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.

**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**

STATE HIGHWAY DESIGN ENGINEER P.E.

09/08/09
TIP PROJECT: B-4664
CONTRACT: C202030
 21-FEB-2008 13:45
 \\s01001\p4664_rdy_tsh_l.dgn
 USER:

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

Table listing symbols for boundaries and property: State Line, County Line, Township Line, City Line, Reservation Line, Property Line, Existing Iron Pin, Property Corner, 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.

BUILDINGS AND OTHER CULTURE:

Table listing symbols for buildings and other culture: Gas Pump Vent or UG Tank Cap, Sign, Well, Small Mine, Foundation, Area Outline, Cemetery, Building, School, Church, Dam.

HYDROLOGY:

Table listing symbols for hydrology: Stream or Body of Water, Hydro, Pool or Reservoir, Jurisdictional Stream, Buffer Zone 1, Buffer Zone 2, Flow Arrow, Disappearing Stream, Spring, Swamp Marsh, Proposed Lateral, Tail, Head Ditch, False Sump.

RAILROADS:

Table listing symbols for railroads: Standard Gauge, RR Signal Milepost, Switch, RR Abandoned, RR Dismantled.

RIGHT OF WAY:

Table listing symbols for 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 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 Utility Easement.

ROADS AND RELATED FEATURES:

Table listing symbols for roads and related features: Existing Edge of Pavement, Existing Curb, Proposed Slope Stakes Cut, Proposed Slope Stakes Fill, Proposed Wheel Chair Ramp, Proposed Wheel Chair Ramp Curb Cut, Curb Cut for Future Wheel Chair Ramp, Existing Metal Guardrail, Proposed Guardrail, Existing Cable Guiderail, Proposed Cable Guiderail, Equality Symbol, Pavement Removal.

VEGETATION:

Table listing symbols for vegetation: Single Tree, Single Shrub, Hedge, Woods Line, Orchard, Vineyard.

EXISTING STRUCTURES:

Table listing symbols for 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:

Table listing symbols for utilities: POWER: Existing Power Pole, Proposed Power Pole, Existing Joint Use Pole, Proposed Joint Use Pole, Power Manhole, Power Line Tower, Power Transformer, UG Power Cable Hand Hole, H-Frame Pole, Recorded UG Power Line, Designated UG Power Line (S.U.E.*); TELEPHONE: Existing Telephone Pole, Proposed Telephone Pole, Telephone Manhole, Telephone Booth, Telephone Pedestal, Telephone Cell Tower, UG Telephone Cable Hand Hole, Recorded UG Telephone Cable, Designated UG Telephone Cable (S.U.E.*), Recorded UG Telephone Conduit, Designated UG Telephone Conduit (S.U.E.*), Recorded UG Fiber Optics Cable, Designated UG Fiber Optics Cable (S.U.E.*).

WATER:

Table listing symbols for water: Water Manhole, Water Meter, Water Valve, Water Hydrant, Recorded UG Water Line, Designated UG Water Line (S.U.E.*), Above Ground Water Line.

TV:

Table listing symbols for TV: TV Satellite Dish, TV Pedestal, TV Tower, UG TV Cable Hand Hole, Recorded UG TV Cable, Designated UG TV Cable (S.U.E.*), Recorded UG Fiber Optic Cable, Designated UG Fiber Optic Cable (S.U.E.*).

GAS:

Table listing symbols for gas: Gas Valve, Gas Meter, Recorded UG Gas Line, Designated UG Gas Line (S.U.E.*), Above Ground Gas Line.

SANITARY SEWER:

Table listing symbols for sanitary sewer: Sanitary Sewer Manhole, Sanitary Sewer Cleanout, UG Sanitary Sewer Line, Above Ground Sanitary Sewer, Recorded SS Forced Main Line, Designated SS Forced Main Line (S.U.E.*).

MISCELLANEOUS:

Table listing symbols for miscellaneous: Utility Pole, Utility Pole with Base, Utility Located Object, Utility Traffic Signal Box, Utility Unknown UG Line, UG Tank; Water, Gas, Oil, A/G Tank; Water, Gas, Oil, UG Test Hole (S.U.E.*), Abandoned According to Utility Records, End of Information.

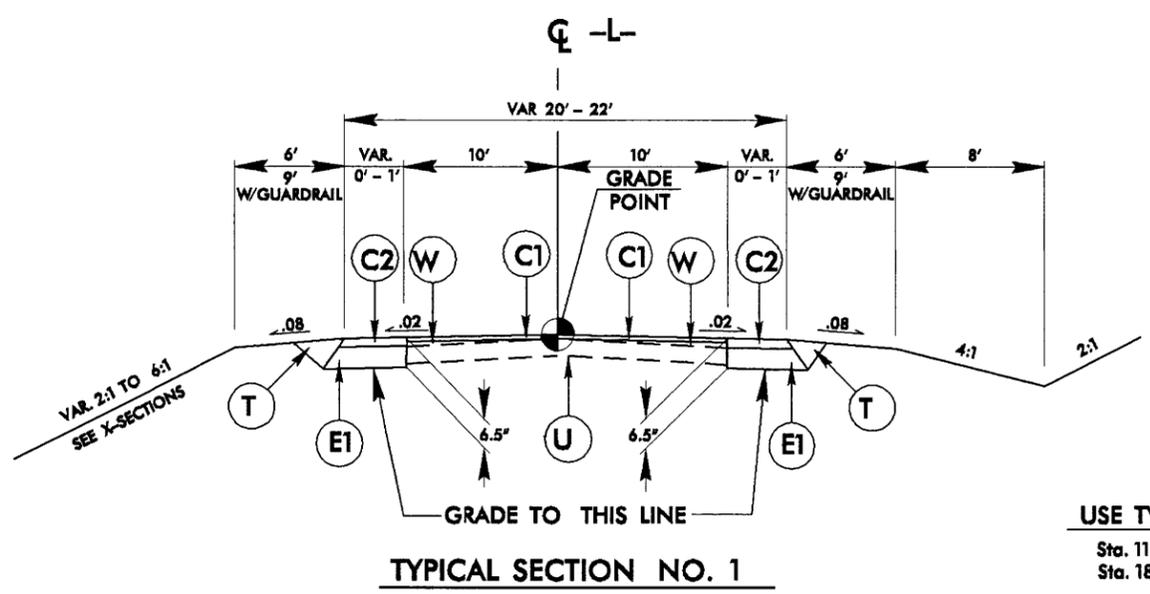
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21-FEB-2008 13:46 b4664_rdy_tup_1.dgn
 \$\$\$SUNBERN\$\$\$

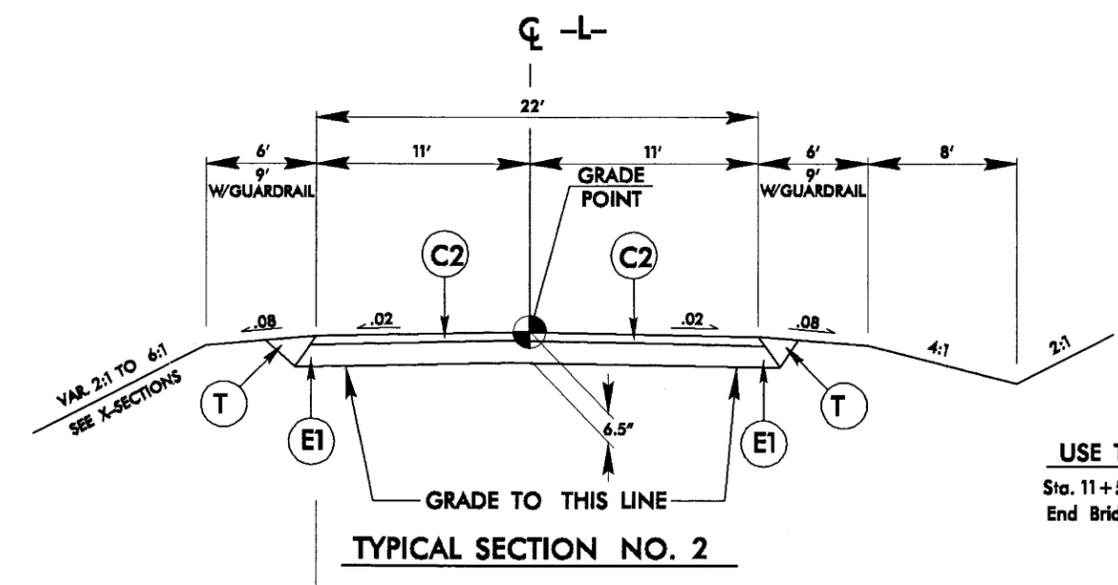
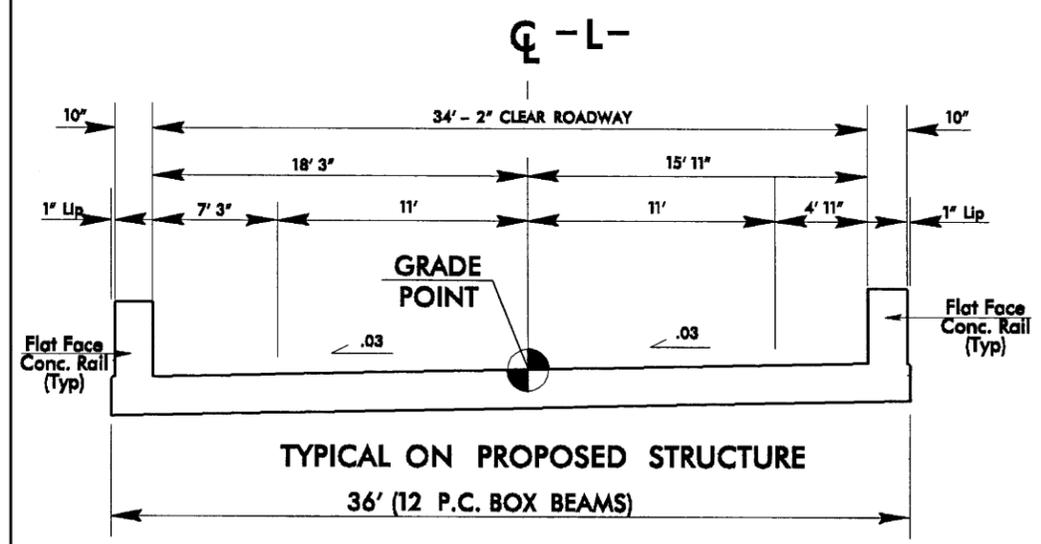
PROJECT REFERENCE NO. B-4664	SHEET NO. 2
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS <small>DO NOT USE FOR CONSTRUCTION</small>	

PAVEMENT SCHEDULE	
C1	Prop. Approx. 1.25" Asphalt Concrete Surface Course, Type SF9.5A, at an Average Rate of 137.5 lbs. per sq. yard
C2	Prop. Approx. 2.5" Asphalt Concrete Surface Course, Type SF9.5A, at an Average Rate of 137.5 lbs. per sq. yard in Each of Two Layers
C3	Prop. Var. Depth Asphalt Conc. Surf. Course, Type SF9.5A, at an Avg. Rate of 110 lbs. per sq. yard per 1" depth to be placed in layers not to exceed 3" in depth
E1	Prop. Approx. 4" Asphalt Concrete Base Course, Type B25.0B, at an Average Rate of 456 lbs. per sq. yard
E2	Prop. Var. Depth Asphalt Conc. Base Course, Type B25.0B, at an Avg. Rate of 114 lbs. per sq. yard per 1" depth to be placed in layers not less than 3" in depth
T	Earth Material
U	Existing Pavement
W	Asphalt Wedging (See Detail)

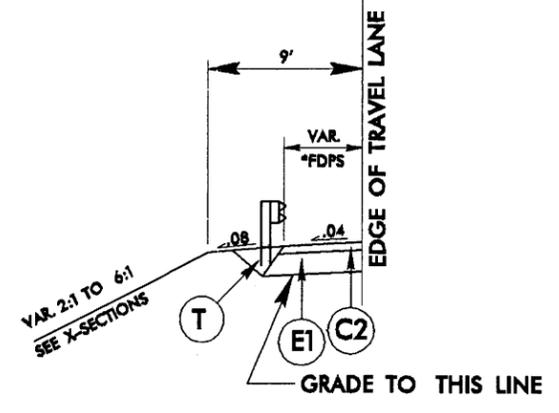
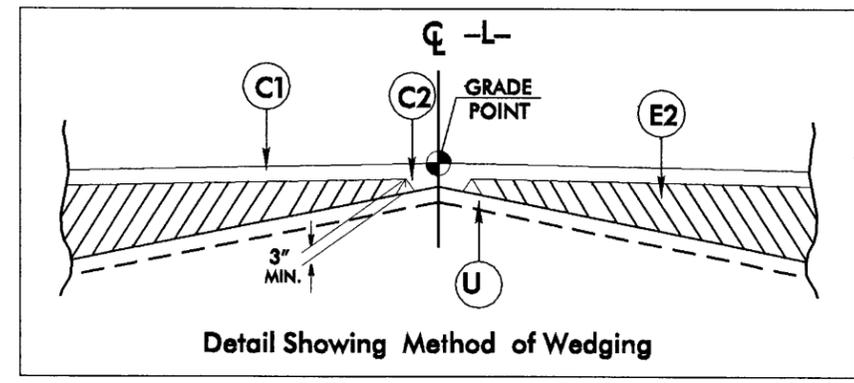
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



USE TYPICAL SECTION NO. 1
 Sta. 11+00.00 -L- to 11+50.00 -L-
 Sta. 18+85.00 -L- to 19+35.00 -L-

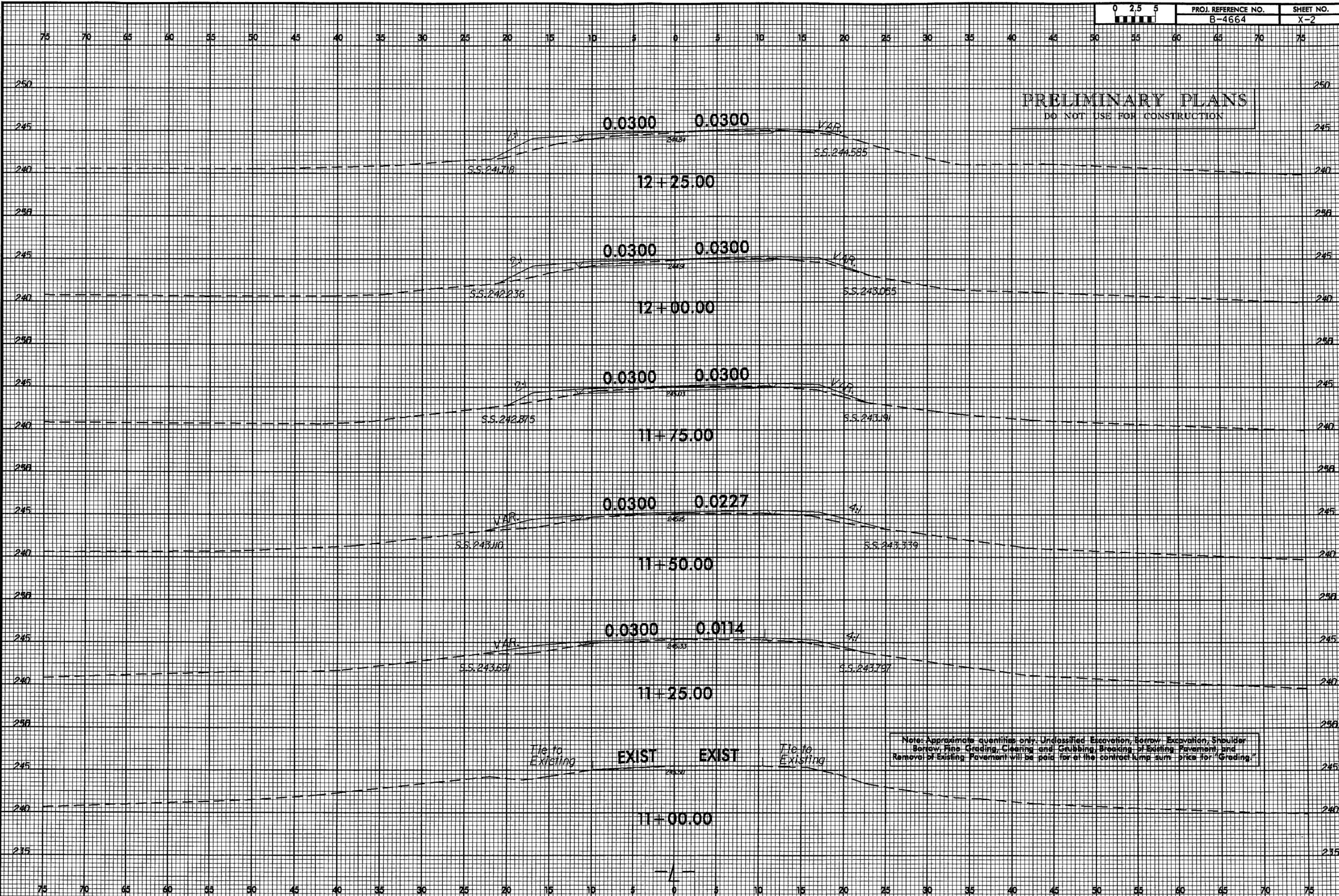


USE TYPICAL SECTION NO. 2
 Sta. 11+50.00 -L- to Begin Bridge Sta. 14+63.49 -L-
 End Bridge Sta. 15+98.51 -L- to Sta. 18+85.00 -L-



TYPICAL SECTION NO. 2A
 * FULL DEPTH PAVED SHOULDER TO FACE OF GUARDRAIL SEE PLAN
 T.S. NO. 2A TO BE USED IN CONJUNCTION WITH T.S. NO. 2 AT GUARDRAIL LOCATIONS

8/23/99



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

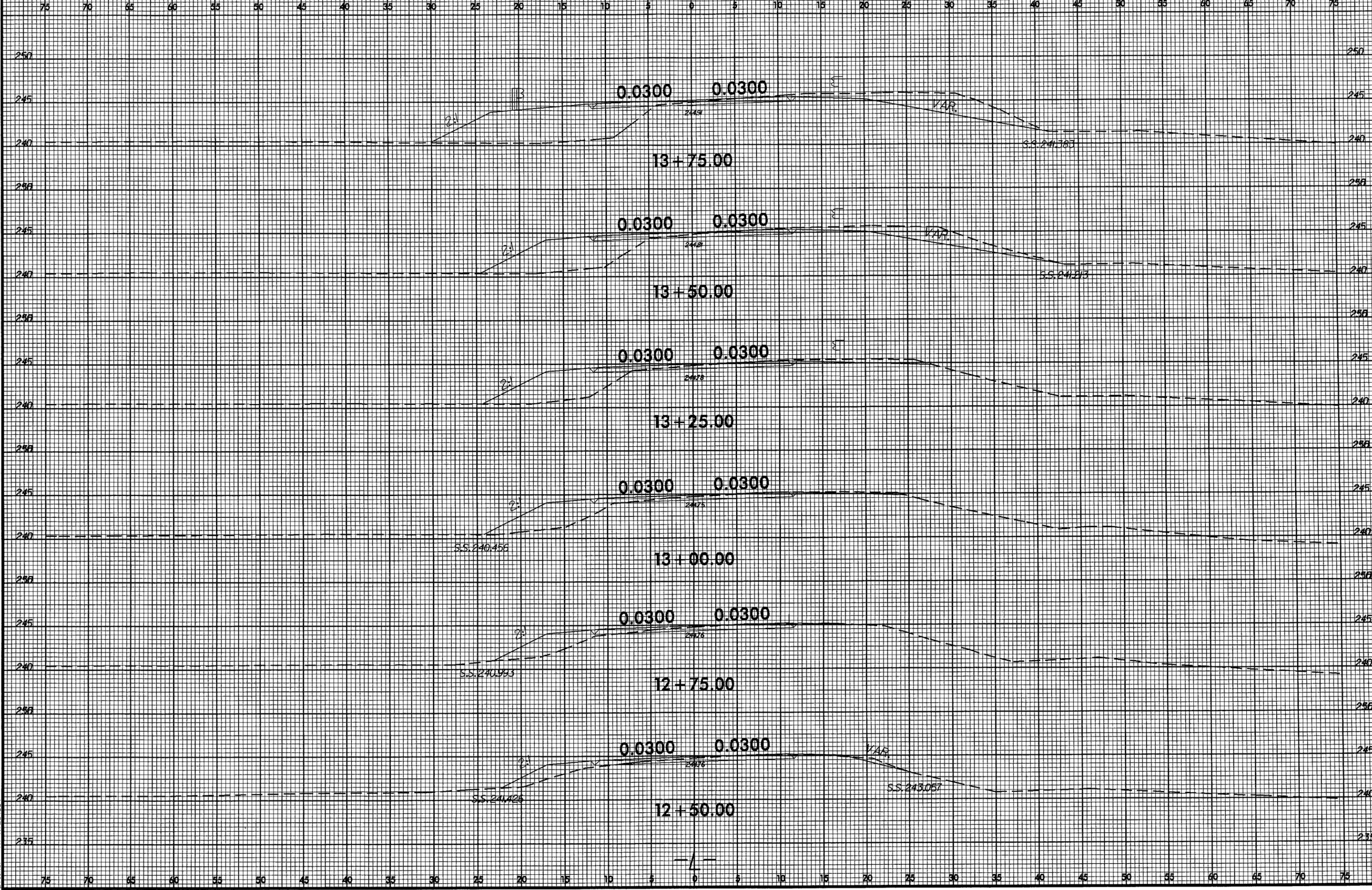
Note: Approximate quantities only. Unclassified Excavation, Borrow, Excavation, Shoulder, Borrow, Fine Grading, Clearing and Grubbing, Breaking of Existing Pavement, and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

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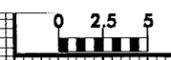


PROJ. REFERENCE NO. B-4664
SHEET NO. X-3

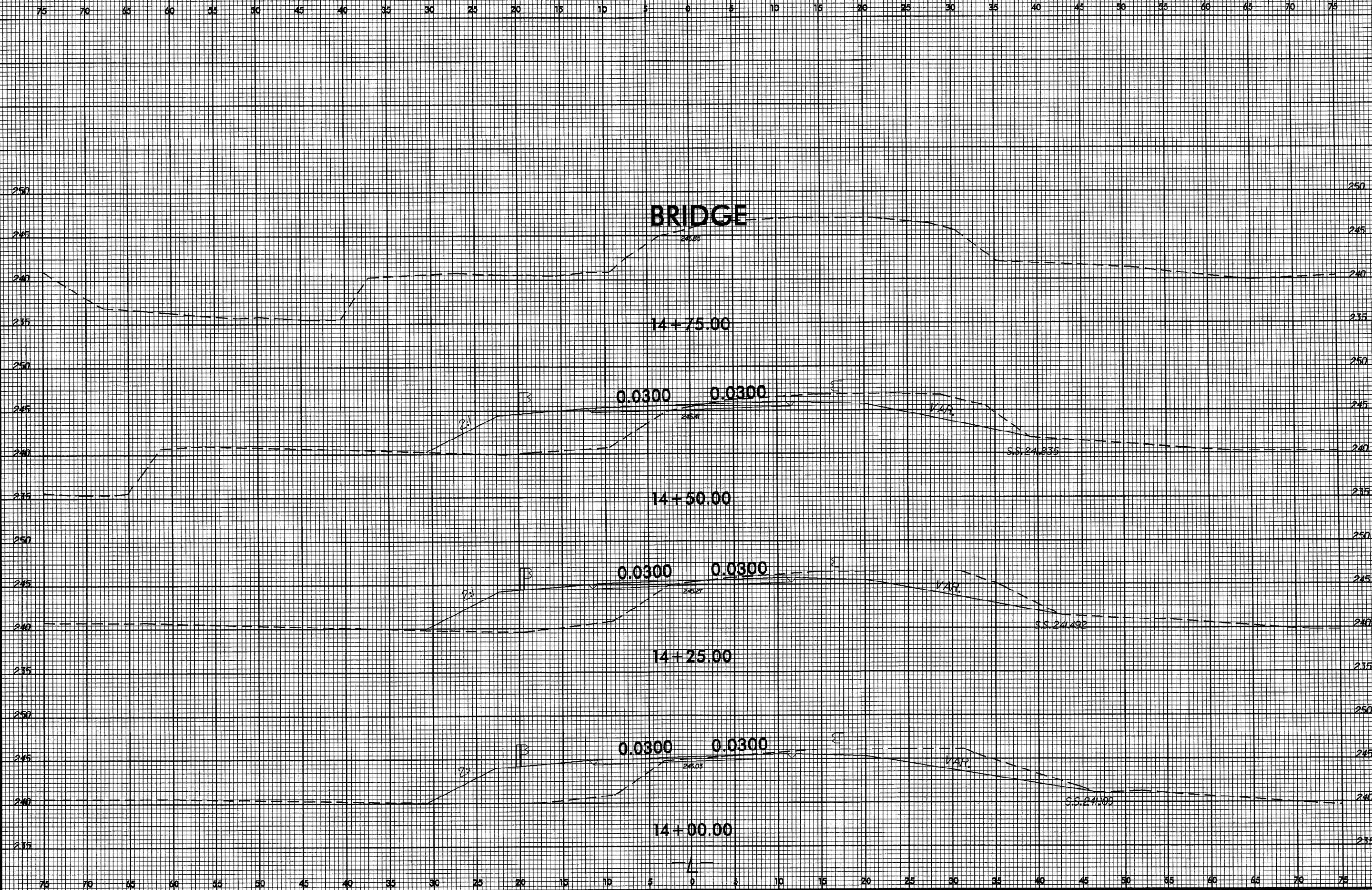


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PROJ. REFERENCE NO.	SHEET NO.
B-4664	X-4

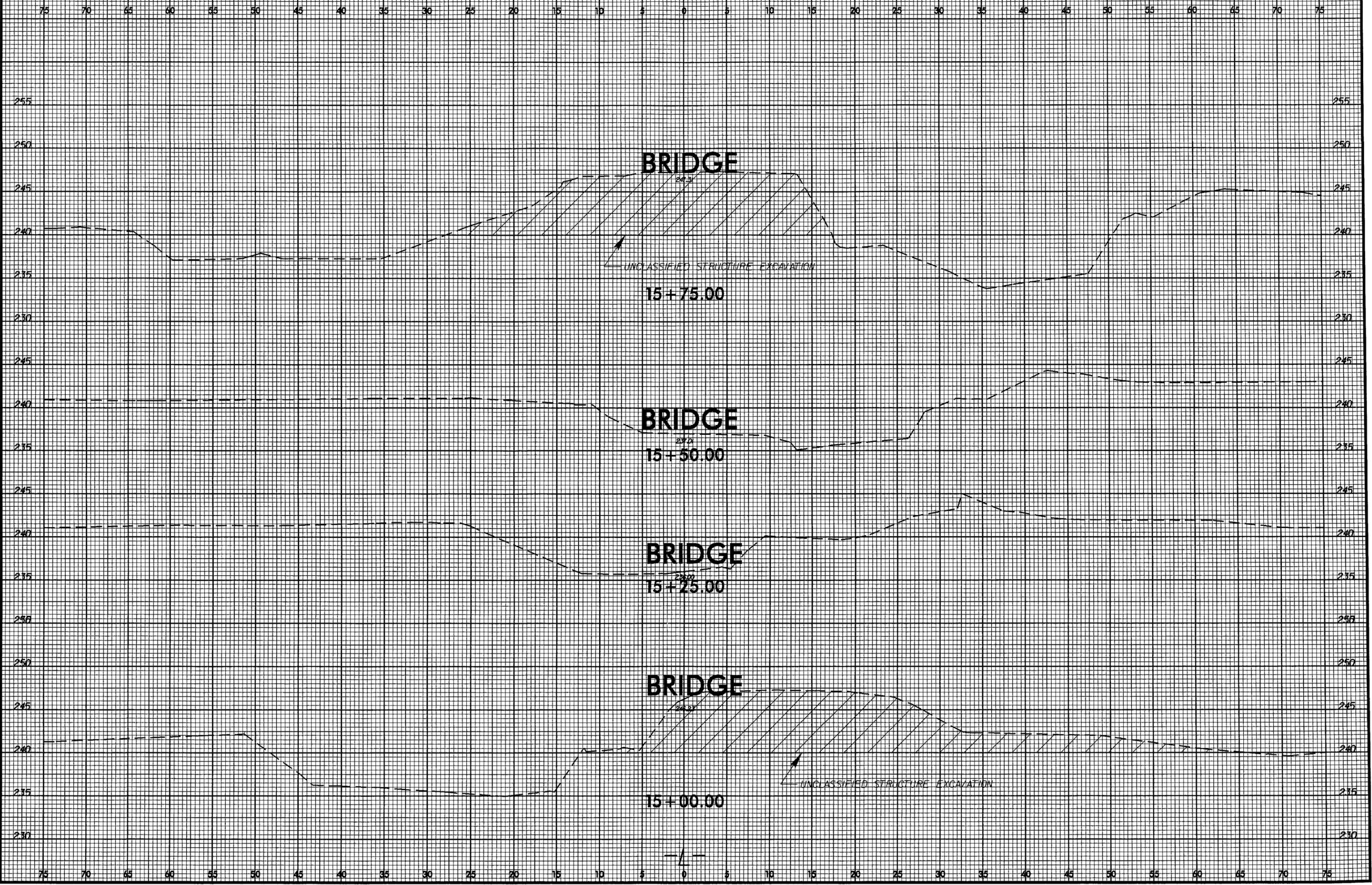


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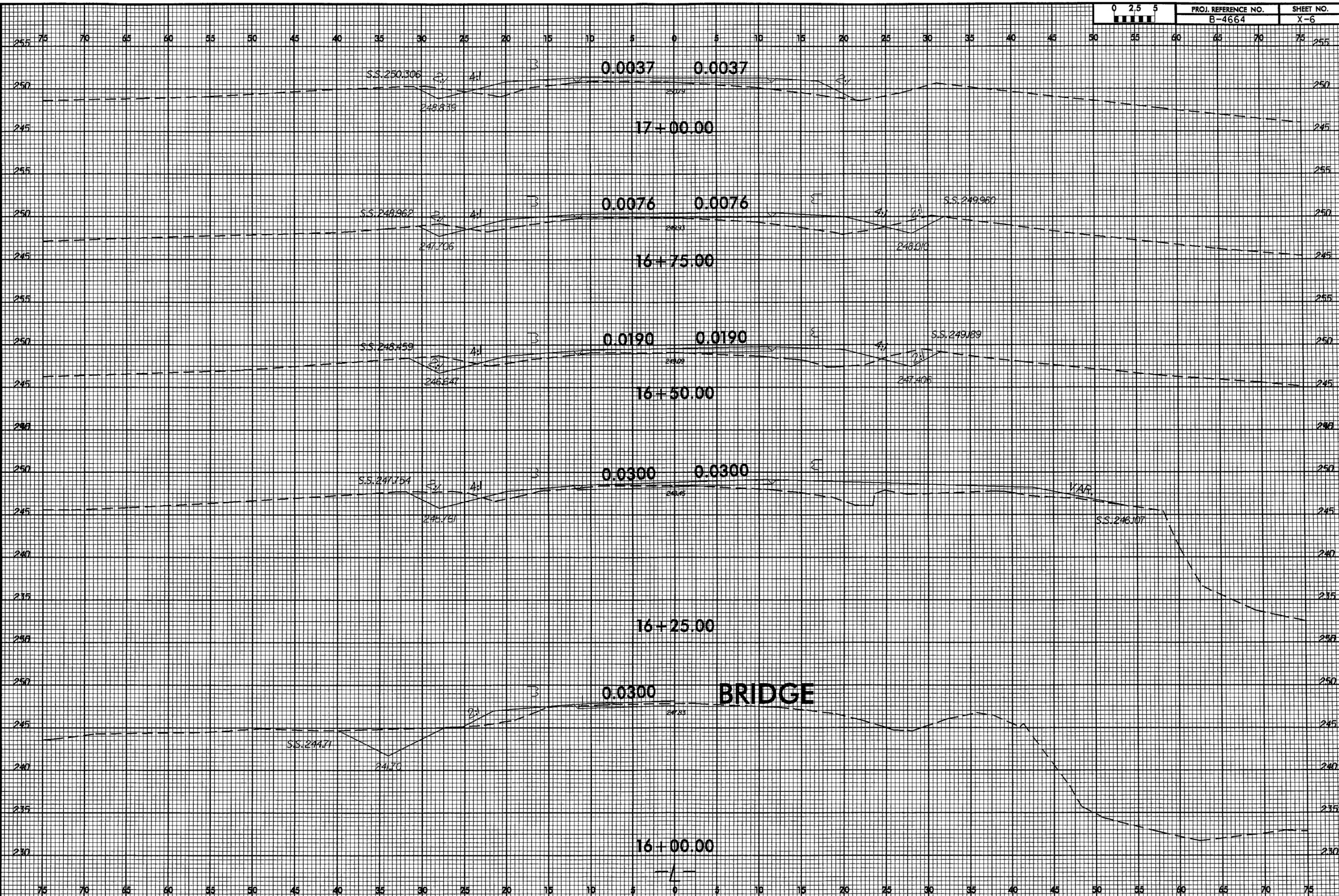


PROJ. REFERENCE NO. B-4664 SHEET NO. X-5



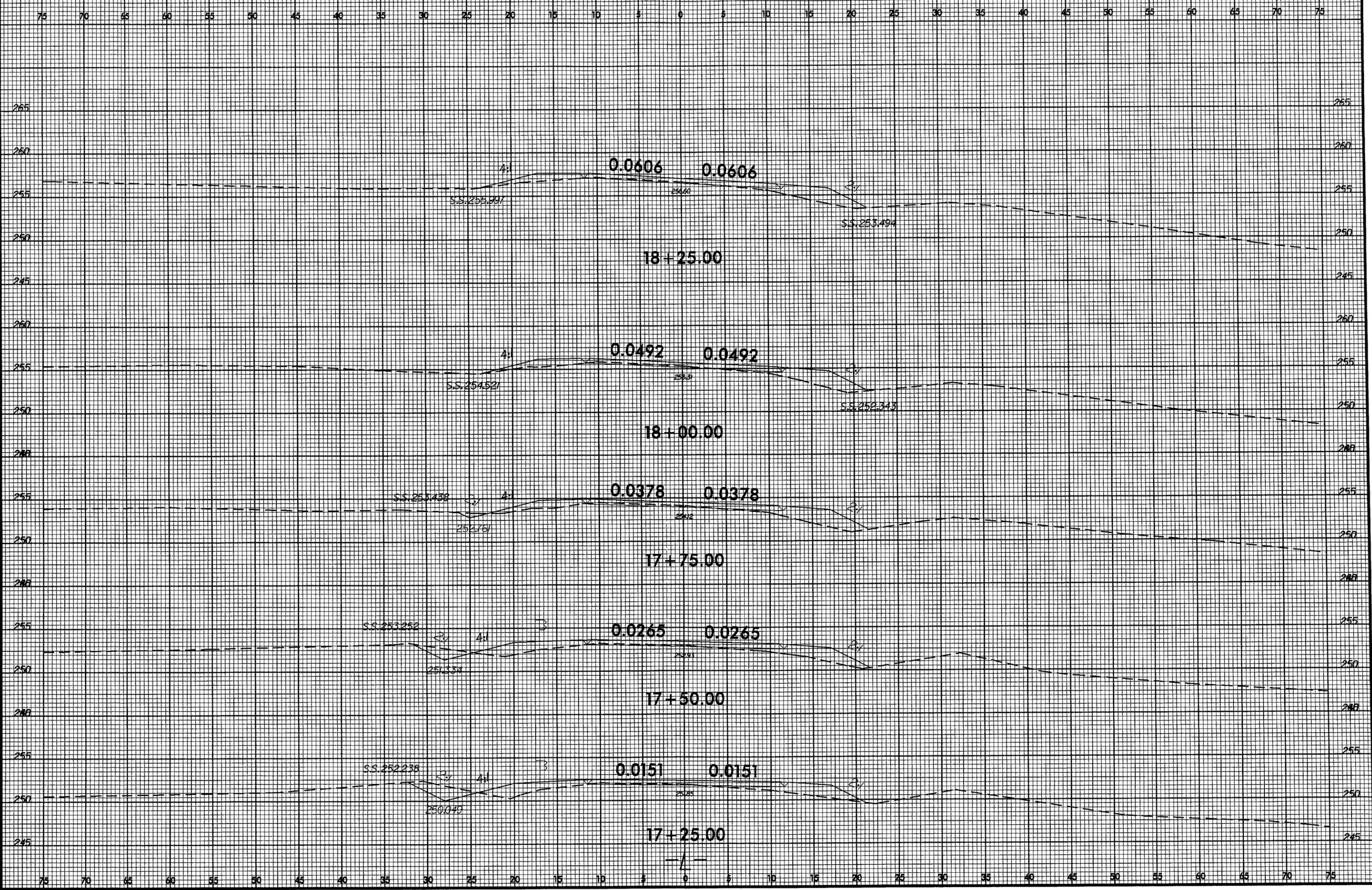
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P. Fisher A. H. 23584

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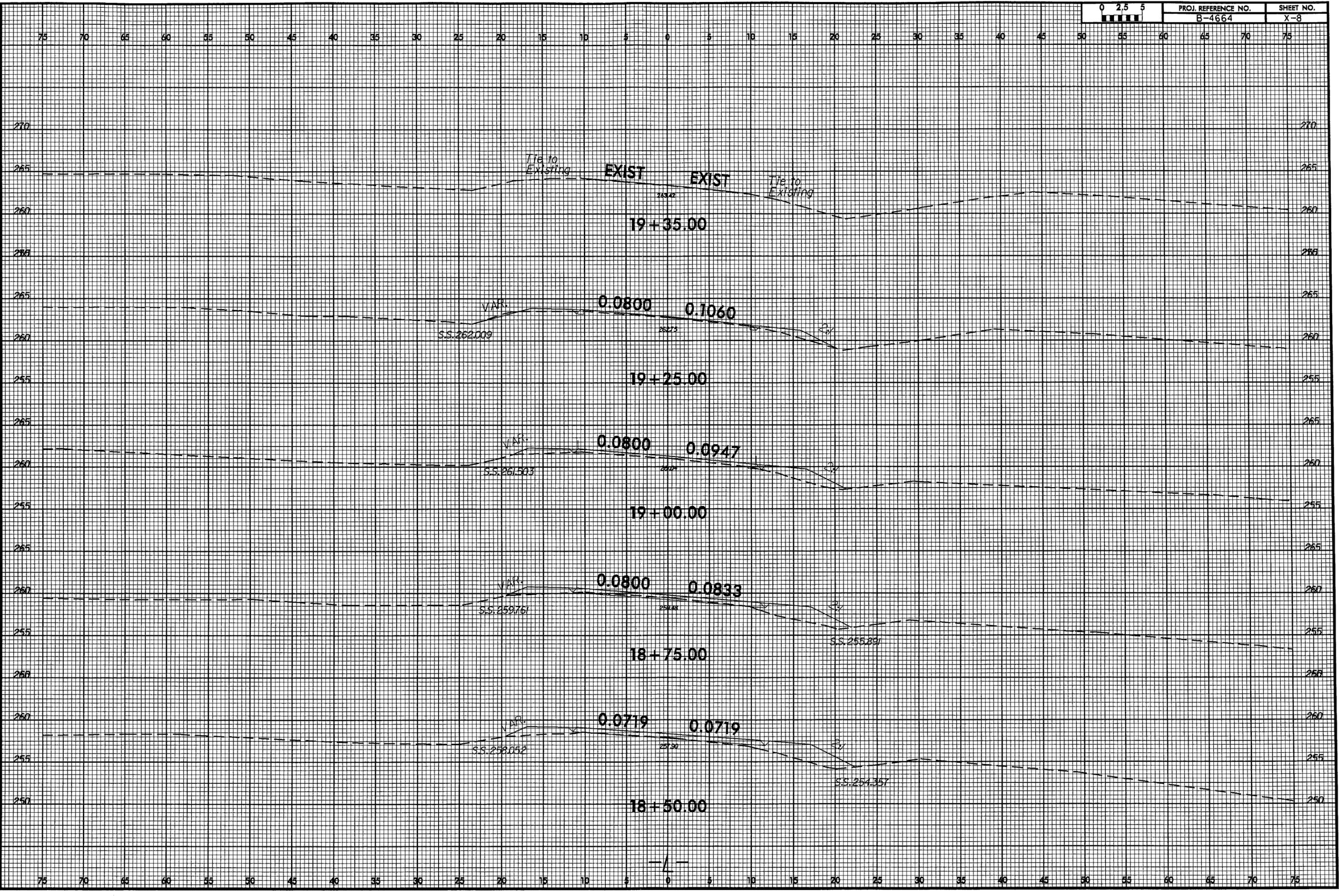
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