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**Luke C. Williams**

1

NS-SIGN1

Date: 2024.11.21 16:49:40 -05'00'


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WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC.  
2030 FALLING WATERS ROAD SUITE 300  
KNOXVILLE, TN 37922  
LUKE C. WILLIAMS, P.E. NO. 17690

REV. 02-11-2025 REVISED INDEX TO  
REMOVE SWPPP AND UTILITY SHEETS.

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

## ROADWAY INDEX

**SHEET NAME**

**SHEET NO.**

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TITLE SHEET.....NS1

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ESTIMATED ROADWAY QUANTITIES.....NS2

TYPICAL SECTIONS.....NS2B

GENERAL NOTES.....NS20

SPECIAL NOTES.....NS2C

ENVIRONMENTAL NOTES.....NS2E

TABULATED QUANTITIES.....NSZF

DETAIL SHEETS.....NS2G-NS2G7

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TRAFFIC CONTROL PLANS.....11-12

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

**STATE OF TENNESSEE**  
**DEPARTMENT OF TRANSPORTATION**

## SIGNATURE SHEET



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

**Luke C. Williams**

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WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC.  
2030 FALLING WATERS ROAD SUITE 300  
KNOXVILLE, TN 37922  
LUKE C. WILLIAMS, P.E. NO. 17690

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

ROADWAY INDEX

SHEET NAME	SHEET NO.
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YEAR	PROJECT NO.	SHEET NO.
2025	STP-500(50)	NS-SIGN2

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

SIGNATURE  
SHEET

Index Of Sheets  
SEE SHEET NO. NS1A FOR INDEX

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING

BLOUNT COUNTY

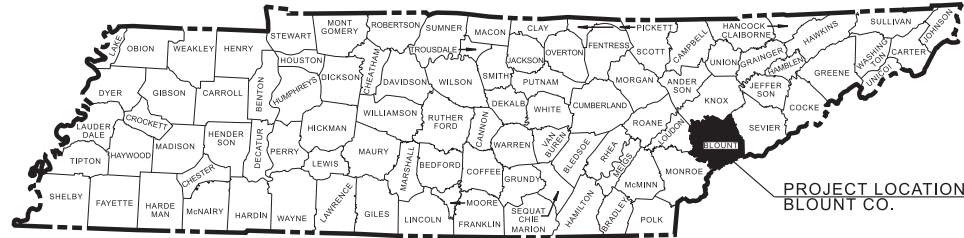
PISTOL CREEK DAM IN ALCOA, STREAM MITIGATION

PS&E  
ENVIRONMENTAL MITIGATION AND WILDLIFE CONNECTIVITY

STATE HIGHWAY NO. N/A TO NO. N/A

DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86	YES	NO X
WORK ZONE SIGNIFICANCE DETERMINATION		
SIGNIFICANT	YES	NO X

TENN.	YEAR	SHEET NO.
	2025	NS1
FED. AID PROJ. NO.	STP-500(50)	
STATE PROJ. NO.	05946-3614-14	



NO EXCLUSIONS



05946-2614-14  
BEGIN PROJECT NO. STP-500(50) R.O.W  
STA. 3+86.94 (PISTOL CREEK)  
N 545828.1851 E 2578793.6987

05946-3614-14  
BEGIN PROJECT NO. STP-500(50) CONST.  
STA. 3+86.94 (PISTOL CREEK)  
N 545828.1851 E 2578793.6987

05946-2614-14  
END PROJECT NO. STP-500(50) R.O.W.  
STA. 5+45.00 (PISTOL CREEK)  
N 545841.7282 E 2578647.0767

05946-3614-14  
END PROJECT NO. STP-500(50) CONST.  
STA. 5+45.00 (PISTOL CREEK)  
N 545841.7282 E 2578647.0767

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2021 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT ROADWAY DESIGN MANAGER: MR. STACY WEAVER, P.E.

DESIGNED BY : WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC.

DESIGNER : JOSEPH M. PARKER, P.E.

CHECKED BY LUKE C. WILLIAMS, P.E.

P.E. NO. 05946-1614-14 (DESIGN)

PIN NO. 104027.48



SCALE: 1"= 1,000'

R.O.W. LENGTH	0.029 MILES
ROADWAY LENGTH	0.000 MILES
BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES
PROJECT LENGTH	0.029 MILES

▲ Not included in the project length (Non Riding Surface).

SURVEY 10-8-2019

TRAFFIC DATA

ADT (20 )	N/A
ADT (20 )	N/A
DHV (20 )	N/A
D	N/A
T (ADT)	N/A
T (DHV)	N/A
V	N/A

COORDINATE VALUES ARE NAD 83 (1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00009, AND TIED TO TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 USING THE GEOD 12B MODEL, OBTAINED ON 10-7-2019.

APPROVED:

WILL REID, CHIEF ENGINEER

DATE:

APPROVED:

HOWARD H. ELEY, COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR

DATE

ROADWAY INDEX

SHEET NAME	SHEET NO.
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STORMWATER POLLUTION PREVENTION (SWPPP) PLANS.....	S-1
UTILITY PLANS.....	U1-1

THE ALPHABETICAL LETTERS NSI, NSO, AND NSQ ARE NOT USED IN NUMBERING OF SHEETS.

NOTE:  
NO PROJECT COMMITMENTS SHEETS INCLUDED IN THIS SET OF PLANS.


STANDARD DRAWING INDEX

DWG.	REV.	DESCRIPTION
ROADWAY DESIGN		
RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
RD-A-2	02-20-20	STANDARD ABBREVIATIONS M THROUGH Z
RD-L-1	2-2C-20	STANDARD LEGEND
RD-L-1A	2-2C-20	STANDARD LEGEND
RD-L-2	2-2C-20	STANDARD LEGEND FOR UTILITY INSTALLATION
RD-L-5	2-2C-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	2-2C-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	2-2C-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-8	2-2C-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
PIPE CULVERTS AND ENDWALLS		
D-PB-2	03-C1-23	STANDARD DETAILS FOR FLEXBLE PIPE INSTALLATION
D-PB-3	11-30-20	INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION
D-PG-3	06-28-19	FERROUS AND ALUMINUM CORRUGATED METAL PIPE
D-PS-1	06-28-19	STRUTTING DETAILS FOR CORR. METAL & STRUCTURAL PLATE ROUND PIPE
NATURAL STREAM DESIGN		
D-NSD-22	05-C1-20	BOULDER CROSS VANE
D-NSD-25	05-C1-20	BOULDER VANES AND J-HOOK
D-NSD-26	11-30-20	LOG VANES, ROOT WADS, AND BOULDER J-HOOK
D-NSD-33	05-C1-20	COIR FIBER EROSION CONTROL BLANKET AND COIR FIBER ROLLS
ROADWAY, PAVEMENT APPURTENANCES, AND FENCES		
S-F-1	03-C1-23	HIGH VISIBILITY FENCE
DESIGN TRAFFIC CONTROL		
T-WZ-10	04-C2-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
EROSION PREVENTION AND SEDIMENT CONTROL		
EC-STR-3B	06-15-21	SILT FENCE
EC-STR-3C	03-C1-23	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-C1-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-25	08-C1-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-37	06-10-14	SEDIMENT TUBE
EC-STR-38	08-C1-12	FLOATING TURBITY CURTAIN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-500(50)	NS1A

REV 02-11-2025    ADDED NS-SIGN 2 TO INDEX.

SEALED BY



02/14/2025

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX  
AND  
STANDARD  
ROADWAY  
DRAWINGS



SENDING

## FOOTNOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-500(50)	NS2

ESTIMATED ROADWAY QUANTITIES				
	ITEM NO.	DESCRIPTION	UNIT	QUANTITY STP-500(50)
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
(1)	202-04-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS (EXISTING DAM STRUCTURE)	LS	1
(2)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	20
(3)	203-01.13	ROAD & DRAINAGE EXCAVATION (STREAM MITIGATION)	C.Y.	1083
	203-06	WATER	M.G.	1
(4)	209-03.31	STREAM MITIGATION-COCONUT FIBER ROLLS	L.F.	300
(5)	209-03.38	STREAM MITIGATION -J -HOOK	EACH	3
(22)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	715
(22)	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	920
(22)	209-13.04	TURBIDITY CURTAIN (FLOATING TRUBIDITY CURTAIN BELCW DAM)	L.F.	170
(6)	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	686
(7)	303-10.01	MINERAL AGGREGATE (SIZE 57) PER TON	TON	110
(8)	411-01.10	ACS MIX(PG64-22) GRADING D	TON	6
(9)	621-03.01	15IN TEMPORARY DRAINAGE PIPE	L.F.	72
(10)	607-05.30	24" PIPE CULVERT	L.F.	40
(22)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	330
(11) (22)	709-05.05	MACHINED RIPRAP (CLASS A-3)	TON	60
(12)	709-05.06	MACHINED RIPRAP (CLASS A-1)	TON	220
(13)	712-01	TRAFFIC CONTROL	LS	1
	712-06	SIGNS (CONSTRUCTION)	SF	104
	717-01	MOBILIZATION	LS	1
(14) (22)	740-10.03	GEOTEXTILE (TYPE III) (EROSION CONTROL)	SY	60
(15) (22)	740-11.02	TEMPORARY SEDIMENT TUBE 12IN	L.F.	1500
(16) (22)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	20
(17)	801-01.35	GRASS SEED MIX (RIPZN/FLPL) W/MULCH	UNIT	20
(18)	801-02.15	FERTILIZER	TON	0.3
(19) (22)	801-03	WATER (SEEDING & SODDING)	M.G.	2
(20)	802-02.30	CUTTINGS: SALIX NIGRA (18IN-24IN LENGTH)	EACH	254
(20)	802-02.33	CUTTINGS: SAMBUCUS CANADENSIS (18IN-24IN)	EACH	254
(20)	802-02.34	CUTTINGS: SALIX INTERIOR (18IN-24IN)	EACH	254
(20)	802-02.37	CUTTINGS: ALNUS SERRULATA (18IN-24IN)	EACH	254
(20)	802-11.01	ACER NEGUNDO (BOX ELDER 2-5FT CNTNR GRWN)	EACH	12
(20)	802-11.14	DIOSPYROS VIRGINIANA (PERSIMMON 2-5FT CNTNR GRWN)	EACH	12
(20)	802-11.19	LIRIODENDRON TULIPIFERA (TULIP POPLAR 2-5FT CNTNR GRWN)	EACH	12
(20)	802-11.26	PLATANUS OCCIDENTALIS (SYCAMORE 2-5FT CNTNR GRWN)	EACH	12
(20)	802-11.44	ULMUS AMERICANA (AMERICAN ELM 2-5FT CNTNR GRWN)	EACH	18
(20)	802-11.45	CARPINUS CAROLINIANA (AMERICAN HORNBEAM 2-5FT CONTAINER GR)	EACH	18
(20)	802-12.53	QUERCUS PAGODA (CHERRYBARK OAK SEEDLING B.R.)	EACH	12
(20)	802-13.76	CELTIS LAEVIGATA (SUGARBERRY SEEDLING B.R.)	EACH	12
(20)	802-16.04	CORNUS AMOMUM (SILKY DOGWOOD 3FT LIVE STAKES)	EACH	254
(21) (22)	805-12.08	700 GRAM COIR FIBER EROSION CONTROL BLANKET	SY	1000

- (1) ITEM 202-04-01 SHALL INCLUDE THE REMOVAL AND DISPOSAL OF THE EXISTING DAM TO THE LIMITS SHOWN IN THE PLANS. FINAL DISPOSAL OF CONCRETE IS TO BE DETERMINED BY CONTRACTOR. INCLUDES REMOVAL AND DISPOSAL FROM SITE. NOTE, DAM REMOVAL WILL REQUIRE CLOSING OFF THE EXISTING GATE ON THE LEFT ABUTMENT TO PREVENT UNCONTROLLED RELEASE OF WATER AND IS TO BE INCLUDED IN DAM REMOVAL SEE NOTE DAM REMOVAL NOTES "NS2D"

(2) ITEM 203-01 INCLUDES EXCAVATION OF 20 CUBIC YARDS FROM GRADING ACCESS ROAD. INCLUDES REMOVAL AND DISPOSAL FROM SITE.

(3) ITEM 203-01.13 INCLUDES EXCAVATION OF 643 CUBIC YARDS OF ACCUMULATED SEDIMENT FROM THE PISTOL CREEK BANK SLOPES AND 440 CUBIC YARDS OF ACCUMULATED SEDIMENT FROM THE MAIN PISTOL CREEK CHANNEL. INCLUDES MATERIAL REMOVAL, DEWATERING, AND DISPOSAL FROM SITE. SEE GRADING NOTE ON SHEET NS2D.

(4) ITEM 209-03.31 COCONUT (COIR) FIBER ROLLS ARE TO USED AT THE TOE OF THE STREAM BANK POST GRADING ACTIVITIES

(5) ITEM 209-03.38 INCLUDES ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO CONSTRUCT DETAIL D-NSD-25 J-HOOK

(6) ITEM 303-01 INCLUDES THE STONE FOR THE ACCESS ROAD (656 TONS) + MAINTENANCE (30 TONS). ACCESS ROAD TO REMAIN.

(7) ITEM 303-10.01 INCLUDES THE #57 BASE STONE FOR THE EQUIPMENT STAGING AREA AT THE DAM (110 TONS). EQUIPMENT STAGING AREA TO BE REMOVED FOLLOWING CONSTRUCTION.

(8) ITEM 411-01.10 ACS MIX (PG64-22) GRADING IS FOR THE REPAIR OF THE PRIVATE DRIVEWAY AT THE ENTRANCE TO THE ACCESS ROAD

(9) ITEM 607-02.30 15IN PIPE CULVERT IS FOR THE TEMPORARY WORK PAD. THE BEDDING MATERIAL SHALL BE INCLUDED IN THE COST OF THE PROPOSED PIPE CULVERT. TEMPORARY DRAIN PIPE TO BE REMOVED.

(10) ITEM 607-05.30 24" PIPE CULVERT IS FOR THE PERMANENT ACCESS ROAD. THE BEDDING MATERIAL SHALL BE INCLUDED IN THE COST OF THE PROPOSED PIPE CULVERT.

(11) ITEM 709-05.05 MACHINED RIPRAP (CLASS A-3) IS FOR 60 TONS CONSTRUCTION EXIT

(12) ITEM 709-05.06 MACHINED RIPRAP (CLASS A-1) INCLUDES 40 TONS FOR 24" CULVERT PROTECTION + 180 TONS TEMPORARY WORK PAD AT DAM. CONTRACTOR IS RESPONSIBLE TO PAY FOR WASHOUTS OF TEMPORARY WORKPAD. TEMPORARY WORKPAD TO BE REMOVED FOLLOWING CONSTRUCTION.

(13) ITEM 712-01 SHALL INCLUDE ALL SIGNS AND APPURTENANCES TO ALERT MOTORISTS OF TRUCKS ENTERING AND EXITING THE ROADWAY AND FOR ANY NECESSARY FLAGGING OPERATIONS TO HAUL MATERIALS IN AND OUT OF THE WORK ZONES

(14) ITEM 740-10.03 GEOTEXTILE (TYPE III) (EROSION CONTROL) ARE FOR THE WORK PAD AT THE DAM AND CONSTRUCTION EXIT

(15) ITEM 740-11.02 TEMPORARY SEDIMENT TUBES ARE TO BE USED AROUND THE TEMPORARY SEDIMENT STORAGE AREA AND ON THE EXPOSED PISTOL CREEK CHANNEL SLOPES DURING GRADING ACTIVITIES TO REDUCE SEDIMENT WASHOFF

(16) ITEM 801-01.07 CUSTOM TEMPORARY SEED MIXTURE WITH MULCH, SEE SHEET NS-11 FOR APPLICATIONS RATES. THE COST OF FERTILIZER AND LIME USED IN THE INITIAL SEED BED PREPARATION IS TO BE INCLUDED IN THE COST OF SEEDING. SEE SECTION 801 OF THE TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE.

(17) ITEM 801-01.35 CUSTOM RIPARIAN FLOOD PERMANENT SEED MIXTURE WITH MULCH, SEE SHEET NS-11 FOR APPLICATIONS RATES

(18) ITEM 801-02.15 SEE SHEET NS-11 FOR FERTILIZER APPLICATIONS RATES

(19) ITEM 801-03 INCLUDES 1 THOUSAND GALLONS FOR PLANT ESTABLISHMENT AND 1 THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL

(20) SEE SHEETS NS-11 AND NS-12 FOR TREE PLANTING RATES AND ZONES

(21) ITEM 805-12.08 INCLUDES ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO CONSTRUCT 700 GRAM COIR FIBER EROSION BLANKET SHOWN IN DETAIL D-NSD-33

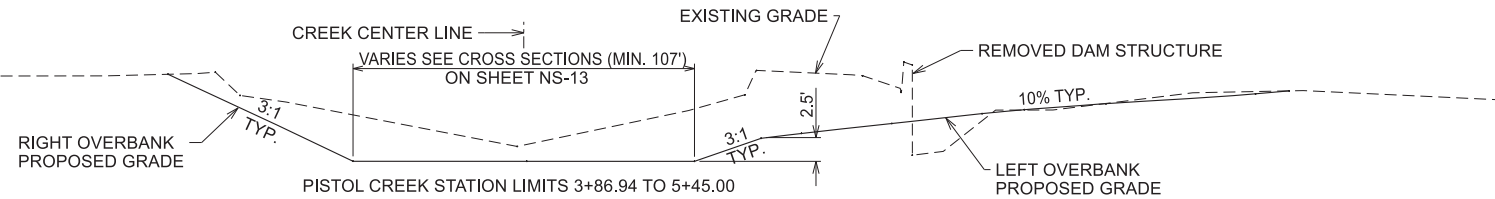
(22) ALL EROSION PREVENTION SEDIMENT CONTROL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER. SEE SUBSECTION 209-07 OF STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT

02/14/2025

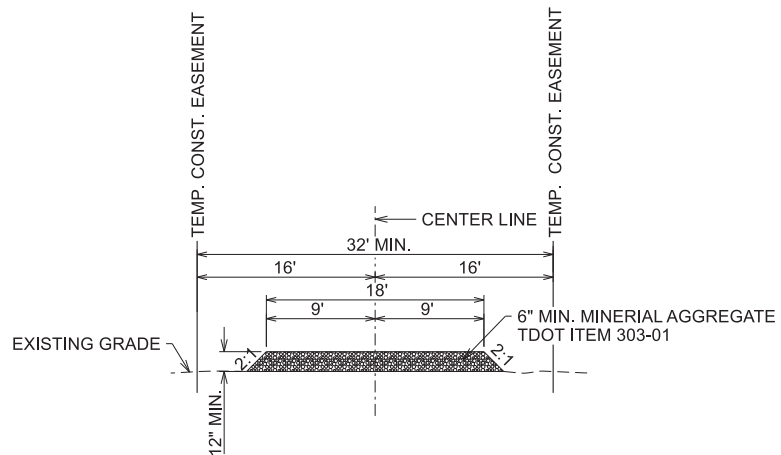
**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

# ESTIMATED ROADWAY QUANTITIES

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-500(50)	NS2B
PS&E	2025	STP-500(50)	NS2B



## PISTOL CREEK TYPICAL SECTION



ACCESS ROAD STATION LIMITS 0+84.54 TO 12+73.40  
REFERENCE: TDOT STANDARD DRAWING RD11-TS-1

## ACCESS ROAD TYPICAL SECTION

02/14/2025

**STATE OF TENNESSEE**  
**DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

## GENERAL NOTES

## GRADING

- (1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- (2) THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) WITHOUT APPROVAL BY FEVA. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

## DRAINAGE

- (1) EXCAVATION FOR PIPE CULVERTS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE CULVERT.
- (2) WHERE A CULVERT (PIPE, SLAB OR BOX) IS MOVED TO A NEW LOCATION OTHER THAN THAT SHOWN ON THE PLANS, INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION WILL NOT RESULT IN AN INCREASE OR DECREASE IN THE AMOUNT OF PAYMENT THAT WILL BE MADE DUE TO SUCH CHANGE.
- (3) DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC, AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.

## MISCELLANEOUS

- (1) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

## CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

- (1) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTYEIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.
- (2) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO. 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.
- (3) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.
- (4) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.
- (5) USE OF BARRICADES, PORTABLE BARRIER RAILS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- (6) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR

ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR TDOT ROADWAY DESIGN GUIDELINES English Revised: 01/04/2021 9-20 GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

- (7) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- (8) THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING CONSTRUCTION SGNS. THE COST OF THIS WORK SHALL BE INCLUDED IN ITEM NO. 712-06, SGNS (CONSTRUCTION), S.F.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-500(50)	NS2C

02/14/2025

**STATE OF TENNESSEE**  
**DEPARTMENT OF TRANSPORTATION**

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**GENERAL  
NOTES**



Special NOTES

STREAM EXCAVATION AND GRADING IMPLEMENTATION NOTES

- (1)

THE STREAM EXCAVATION/GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THE ENGINEERING DRAWINGS.
- (2)

SOIL COMPACTION IS A POTENTIAL CONSEQUENCE FOR THIS PROJECT, DUE TO THE AMOUNT OF EARTH MOVING REQUIRED TO REMOVE THE DAM AND EXCAVATE SEDIMENT. TO COMPENSATE FOR SOIL COMPACTION DURING CONSTRUCTION, MECHANICAL RIPPING OF THE SOIL IN DISTURBED AREAS MAY BE NEEDED PRIOR TO PLANTING OF WOODY VEGETATION AND PERMANENT SEED MIX. IN ADDITION, SOIL AMENDMENTS (COMPOST, FERTILIZING, ETC.) WILL BE APPLIED DURING PLANTING TO ENHANCE SOIL FERTILITY AND ENSURE SUCCESSFUL ESTABLISHMENT OF RIPARIAN VEGETATION.
- (3)

IN AREAS WHERE DOWN CUTTING OF THE EXISTING SOILS WILL BE REQUIRED, THE TOPSOIL WILL BE STRIPPED AND STOCKPILED UNTIL GRADING OPERATIONS HAVE BEEN COMPLETED. THE TOPSOIL WILL BE REINSTALLED, AND ALL CARE WILL BE TAKEN TO AVOID COMPACTION OF THE SOILS DURING INSTALLATION.
- (4)

TEMPORARY AND PERMANENT SEEDING AND INSTALLATION OF COIR MATTING AND EROSION CONTROL BLANKETS SHALL BE INSTALLED IMMEDIATELY FOLLOWING THE COMPLETION OF GRADING ACTIVITIES. TREES SHALL BE INSTALLED IN THE FIRST PLANTING SEASON FOLLOWING CHANNEL EXCAVATION.
- (5)

REQUEST BY ANY AGENT THAT WOULD REQUIRE THE MODIFICATION OF CHANNELS, DITCHES, ELEVATIONS, OR ANY OTHER STREAM MITIGATION ITEMS ASSOCIATED WITH THE CHANNEL RELOCATION SHALL BE REFERRED TO THE TDOT ENVIRONMENTAL DIVISION VIA THE REGIONAL ENVIRONMENTAL TECHNICAL OFFICE FOR COORDINATION WITH ALL INVOLVED AGENCIES AND TDOT DIVISIONS. TDOT ENV ECOLOGY [TDOT.Env.Ecology@tn.gov](mailto:TDOT.Env.Ecology@tn.gov).
- (6)

ONCE THE DAM IS REMOVED AND STREAM CHANNEL STABILIZED AS SHOWN ON THE ENGINEERING DRAWINGS THE ECOLOGY SECTION MUST BE NOTIFIED. TDOT ENV ECOLOGY [TDOT.Env.Ecology@tn.gov](mailto:TDOT.Env.Ecology@tn.gov).

TREES

- (1)

NO SUBSTITUTION OF TREE SPECIES OR SIZE SHALL BE ALLOWED WITHOUT THE WRITTEN APPROVAL OF TDOT ENVIRONMENTAL DIVISION. CONCERNING STREAM MITIGATION, TREES SHALL BE OF THE VARIETY REQUESTED AND FIRST QUALITY. NO CLONES OR CULTIVARS WILL BE ACCEPTED. ANY FOUND TO BE INCORRECT SPECIES, OR IMPROPERLY PLANTED, AT ANY TIME PRIOR TO TERMINATION OF THE CONTRACT SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. STAKES AND WIRES SHALL BE REMOVED IMMEDIATELY PRIOR TO CONTRACT TERMINATION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- (2)

THE ONCE CONTRACTOR SHOULD ARRANGE SEVERAL MONTHS AHEAD OF TIME TO OBTAIN THE CORRECT TREE SPECIES, AS SOME MAY REQUIRE SOME TIME TO LOCATE.
- (3)

ALL TREES SHALL BE WRAPPED AS PER SECTION 802.07 OF TDOT STANDARD SPECIFICATIONS FOR THE ROAD AND BRIDGE CONSTRUCTION.
- (4)

TREES SHALL BE WATERED AS REQUIRED THROUGH THE PERIOD OF ESTABLISHMENT TO ENSURE SURVIVAL. INSTALLATION OF LIVE STAKES AND BARE ROOT TREES SHALL OCCUR DURING THE DORMANT SEASON. THE DORMANT SEASON SHALL BE DESIGNED AS THE PERIOD FROM NOVEMBER 6 TO MARCH 24.

GENERAL NOTES

- (1)

THE CONTRACTOR SHALL EXERCISE EVERY REASONABLE PRECAUTION THROUGHOUT THE CONSTRUCTION OF THE PROJECT TO PREVENT EROSION AND SILTATION. EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE PROJECT PLANS, TDOT DESIGN DIVISION DRAINAGE MANUAL: EROSION PREVENTION AND SEDIMENT CONTROL, AND AS DIRECTED BY THE PERSON IN CHARGE OF THE DAM REMOVAL ACTIVITIES.
- (2)

IF BEDROCK IS ENCOUNTERED ANY CHANGES TO THE DESIGNED PLANFORM, PROFILE, OR PLANTING PLAN WILL REQUIRE APPROVAL BY THE ENGINEER.
- (3)

CONTRACTOR SHALL MARK TREES PRIOR FOR SELECTIVE REMOVAL FOR TDOT STAFF AND/OR ENGINEERS APPROVAL, PRIOR TO REMOVAL/CUTTING. CONTRACTOR SHALL MAKE EVERY ATTEMPT TO REMOVE ONLY THE TREES NECESSARY TO CONSTRUCT THE PROJECT.

- (4)

ALL EXCAVATED MATERIAL SHALL BE STOCKPILES WITHIN THE LIMITS OF DISTURBANCE FOR LATER REUSE OR DISPOSAL. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING APPROPRIATE STABILIZATION MEASURES AROUND THE STOCKPILES AREA(S) AND ANY TEMPORARY OR PERMANENT SPOIL PILES TO PREVENT EROSION AND SEDIMENTATION. ALL PERMANENT OR TEMPORARY SPOIL PILES SHALL HAVE SOIL FENCE INSTALLED ON THE LOW SIDE OF THE SPOIL PILES.
- (5)

IN THE EVENT OF A STORM, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OR PROTECTION OF ANY EQUIPMENT, TOOLS, MATERIALS, OR OTHER ITEMS NEEDED TO COMPLETE THE WORK THAT COULD BE AFFECTIVE BY STORM FLOWS.
- (6)

EACH SEDIMENT CONTROL DEVICE WILL BE REMOVED AFTER ALL WORK IN THE CORRESPONDING CONSTRUCTION PHASE HAS BEEN COMPLETED AND THE AREAS HAVE BEEN STABILIZED.

DAM REMOVAL NOTES

- (1)

THE ENGINEERING PLANS CALL FOR THE REMOVAL OF SOME UPSTREAM SEDIMENTS AND INCREMENTALLY LOWERING OF THE PISTOL CREEK DAM TO REDUCE DISCHARGE OF THE SEDIMENT/DEBRIS AND TO CONTROL THE VELOCITIES OF THE STORED WATER.
- (2)

IT IS UNDERSTOOD THAT SOME SEDIMENT REMAINS WILL BE ACCEPTABLE DURING DAM REMOVAL AND DURING THE NATURAL REESTABLISHMENT OF THE PISTOL CREEK CHANNEL OUTSIDE OF THE PROJECT LIMITS.
- (3)

WORK ON THE DAM WILL PRIMARILY BE FROM THE DOWNSTREAM SIDE TO AVOID TO THE EXTEND PRACTICAL FLOWING WATER.
- (4)

THE AVERAGE ELEVATION ALONG THE TOP OF THE DAM'S SPILLWAY IS 821.5'. NORMALLY DURING THE SUMMER AND EARLY FALL, STREAMFLOW IS CONVEYED ENTIRELY THROUGH THE NOTCH IN THE DAM SPILLWAY.
- (5)

THE SUMMER BASEFLOW WATER SURFACE ELEVATION ABOVE THE DAM WAS ESTIMATED TO BE 820.6'. DURING STORMS AND FREQUENTLY DURING THE WET SEASON FLOWS WILL SUBMERGE THE NOTCH AND GO OVER THE TOP OF THE DAM'S SPILLWAY.
- (6)

LEAKAGE THROUGH THE DAM IS APPARENT AT A COLD JOINT NEAR THE CREST OF THE DAM. THIS LEAKAGE IS ASSOCIATED WITH A PIPING FEATURE APPROXIMATELY 18" WIDE AND 6" TALL AT THE DOWNSTREAM FACE AND EXTENDS INTO THE DAM APPROXIMATELY 12". SEDIMENT AND DEBRIS CURRENTLY LIMIT THE FLOW THROUGH THIS FEATURE AND SHOULD ONLY BE REMOVED AFTER THE SEEPAGE IS CUT OFF TO PREVENT UNCONTROLLED WATER IN THE ACTIVE WORK AREA BELOW THE DAM.
- (7)

ON THE LEFT ABUTMENT NEAR THE BASE OF THE DAM IS A SMALL RECTANGULAR SLIDE GATE. THE OPENING TO THE SLIDE GATE IS APPROXIMATELY 18" BY 18" AND APPROXIMATELY 12" DEEP. THE BACK OF THE GATE OPENING IS CLOGGED WITH DEBRIS AND SEDIMENT WHICH IMPEDES THE SEEPAGE THROUGH THE OPENING. WE SUSPECT THIS MAY HAVE BEEN A WOODEN SLIDE GATE ON THE UPSTREAM SIDE TO ALLOW FOR LOWERING OF THE IMPOUNDMENT LEVEL. THIS OPENING SHOULD BE CLOSED OFF WITH CONCRETE AS PART OF THE INITIAL CONSTRUCTION AND PRIOR TO UPSTREAM SEDIMENT REMOVAL TO PREVENT UNCONTROLLED WATER IN THE ACTIVE WORK AREA BELOW THE DAM. COST OF CLOSING OFF THIS GATE WITH CONCRETE TO BE INCLUDED IN THE DAM REMOVAL COST ITEM 202-04-01.
- (8)

THE MAIN SECTION OF THE DAM THAT MAKES UP THE OVERTOPPING SECTION (EXTENDS 62 FEET FROM THE RIGHT ABUTMENT) IS CONCRETE WITH POORLY GRADED LARGE ANGULAR (UP TO 8") TO MEDIUM ROUNDED AGGREGATE. NO REBAR WAS OBSERVED IN THE SECTION INCLUDING THE "PIPING" HOLE THAT EXPOSES A LARGE AREA. SOME EMBEDDED CABLE AND FORM TIES WERE OBSERVED AT OTHER AREAS OF THIS SECTION OF THE DAM. REBAR MAY BE PRESENT IN THE REMAINING SECTION OF THE DAM BUT WAS NOT READILY OBSERVABLE. THE RETAINING WALL BELOW THE DAM ON THE EAST BANK DOES CONTAIN TWISTED SQUARE REBAR. THE RETAINING WALL WILL NOT BE DISTURBED.
- (9)

RECENT MEASUREMENTS OF THE STREAM BED BOTTOM BETWEEN THE DAM AND ALCOA TRAIL BRIDGE INDICATE MOST OF THE ACCUMULATION OF SEDIMENT AND DEBRIS BEHIND THE DAM HAS OCCURRED WITH THE FIRST 300 FEET UPSTREAM OF THE DAM.
- (10)

THE DAM APPEARS TO BE FOUNDED ON A VARIABLE BEDROCK SURFACE FROM ELEVATION 814' ON THE RIGHT ABUTMENT TO ROUGHLY THE SAME ELEVATION ON THE LEFT ABUTMENT. IN THE VARIABLE BEDROCK LEVEL AVERAGES AROUND 813.5' WITH "HOLES" IN THE BEDROCK SURFACE TO ELEVATION 811' OR 810'. THE DAM WILL BE REMOVED TO AROUND ELEVATION 813.0' BUT WILL CONFORM TO THE BEDROCK PROFILE EXCEPT
- AT THE HOLES WHERE A SMOOTH TRANSITION IS MADE TO THE 813.0' ELEVATION.

(11)

THE DAM WILL BE LOWERED IN VERTICAL INCREMENTS. THE LOWEST ELEVATION OF THESE INCREMENTS IS ESTIMATED TO BE ELEVATION 813.0' HOWEVER, THE FINAL GROUNDLINE FOR THE DAM REMOVAL WILL BE BASED ON THE EXISTING BEDROCK LEVEL WHICH IS VARIABLE. ONLY INCIDENTAL ROCK EXCAVATION IS ANTICIPATED. IF THE 813.0' ELEVATION PRODUCES A THIN LAYER (LESS THAN 6 INCHES) ABOVE THE BEDROCK IT IS TO BE REMOVED. IF THE RESULTING THICKER SECTION ARE NOT STABLE, THEY WILL ALSO BE REMOVED. THE DEEPER SECTIONS, AS IN THE HOLES DESCRIBED ABOVE, CONCRETE MAY REMAIN AT ELEVATION 813.0', PROVIDED IT APPEARS STABLE.

(12)

SEDIMENT EXCAVATED DURING THE DAM REMOVAL WILL TEMPORARILY BE PLACED ON THE LEFT OVBANK WITHIN THE LIMITS OF THE CITY ALCOA PROPERTY. FINAL PLACEMENT OF SEDIMENTS WILL BE DETERMINED BY THE CONTRACTOR.

(13)

THE NOTED CITY OF ALCOA PROPERTY IS WITHIN THE 100-YEAR FLOODPLAIN AND THEREFORE ANY TEMPORARY OR PERMANENT FILL IN THIS AREA WILL BE CHECKED FOR POSSIBLE IMPACTS TO FLOOD ELEVATIONS.

(14)

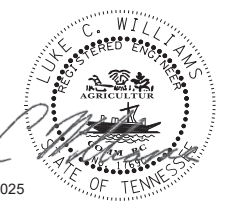
THE DAM REMOVAL SEQUENCE WAS DIVIDED INTO FOUR (4) PHASES AND SHOWN IN THE ENGINEERING PLANS.

(15)

IN STREAM CHANNEL STRUCTURES WILL BE INSTALLED TO PREVENT SCOUR AND PROVIDE BANK STABILIZATION UNTIL WOOD VEGETATION CAN BE ESTABLISHED AND WILL CONSIST OF BOULDER VANES. 100% BIODEGRADABLE COIR MATTING WILL BE INSTALLED PRIOR TO THE ESTABLISHMENT OF PERMANENT VEGETATION TO STABILIZE GRADED CHANNEL BANKS UNTIL PERMANENT VEGETATION CAN BE ESTABLISHED.

(16)

THE CM SITE WILL BE VISUALLY INSPECTED IMMEDIATELY AFTER MITIGATION CONSTRUCTION AND PLANTING ACTIVITIES AREA COMPLETED AND ANNUALLY DURING THE FIVE-YEAR MONITORING PERIOD TO DOCUMENT ANY POTENTIAL MAINTENANCE OR REPAIRS. THE STREAM MITIGATION PLAN PROVIDES FURTHER INFORMATION ON THE FIVE-YEAR MONITORING REQUIREMENTS.
- | TYPE | YEAR | PROJECT NO. | SHEET NO. |
|------|------|-------------|-----------|
| PS&E | 2025 | STP-500(50) | NS2D      |
|      |      |             |           |
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- SEALED BY



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- STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

SPECIAL  
NOTES


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SPECIAL NOTES CONT'D  
NATURAL STREAM CHANNEL REQUIREMENTS AND  
QUALIFICATIONS

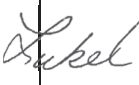
- (1) CONSTRUCT NATURAL STREAM CHANNELS PURSUANT TO ALL PROVISIONS AND REQUIREMENTS OF APPLICABLE ARAPS, 404 PERMITS, NPDES PERMITS, AND PLANS.
- (2) HAVE PRESENT ON-SITE, A NATURAL STREAM CHANNEL CONSTRUCTION/DESIGN EXPERT FOR ALL STREAM CHANNEL CONSTRUCTION ACTIVITIES TO ENSURE COMPLIANCE WITH THE PLANS AND PERMITS. THE NATURAL STREAM CHANNEL CONSTRUCTION/DESIGN EXPERT ON-SITE SHALL HAVE EXPERTISE IN NATURAL STREAM CHANNEL CONSTRUCTION, DESIGN, AND HAVE COMPLETED THE ROSGEN NATURAL STREAM RESTORATION COURSEWORK TO LEVEL IV (RIVER RESTORATION AND NATURAL CHANNEL DESIGN) OR ABOVE. THE NATURAL STREAM CHANNEL CONSTRUCTION/DESIGN EXPERT CAN BE THE SUPERINTENDENT, FOREMAN, A CONSULTANT OR A SUB-CONTRACTOR THAT SPECIALIZES IN NATURAL STREAM CHANNEL DESIGN AND CONSTRUCTION. PROVIDE DOCUMENTATION OF REQUIRED TRAINING TO THE TDOT DISTRICT SUPERVISOR AT THE PRE-CONSTRUCTION MEETING.
- (3) THE NATURAL STREAM CHANNEL CONSTRUCTION/DESIGN EXPERT SHALL HAVE COMPLETED CONSTRUCTION OF AT LEAST THREE STREAMS RESTORATION PROJECTS FOR MITIGATION BANKS, IN LIEU FEE PROGRAMS, OR STANDALONE MITIGATION SITES. THESE THREE PROJECTS SHALL BE BASED ON NATURAL STREAM CHANNEL DESIGN PRINCIPLES INCLUDING, BUT NOT LIMITED TO: IN-STREAM STRUCTURES (STEP POOLS, LOG VANES, ROCK RIFFLES, AND WOOD TOE PROTECTION), STREAM MEANDER CONSTRUCTION, AND STREAMBANK RESTORATION (BANK SHAPING, STABILIZATION, AND BIOENGINEERING), AND VEGETATION INSTALLATION (I.E. NATIVE SEED MIX, BARE ROOT SEEDLINGS, LIVE STAKES, CONTAINER TREES, AND BALLED AND BURLAP TREES). PROVIDE DOCUMENTATION OF THE PROJECTS FOR REVIEW TO THE TDOT DISTRICT SUPERVISOR AT THE PRE-CONSTRUCTION MEETING.
- (4) A REGISTERED TENNESSEE PROFESSIONAL ENGINEER WITH KNOWLEDGE OF THE MITIGATION SITE SHALL PREPARE AS-BUILT PLANS OF THE CONSTRUCTED NATURAL STREAM CHANNEL IMMEDIATELY FOLLOWING COMPLETION. COMPENSATION FOR THIS WILL NOT BE DIRECT, BUT INCIDENTAL TO OTHER PAY ITEMS. A COPY OF THE ORIGINAL NATURAL STREAM CHANNEL PLANS, RED-LINED TO SHOW VARIANCES FROM THE ORIGINAL DESIGN, IS ACCEPTABLE TO MEET THIS REQUIREMENT. A SURVEY QUALITY AS-BUILT PLANS MAY BE REQUIRED IF PERMIT COMPLIANCE ISSUES ARE IDENTIFIED DUE TO DISCREPANCIES IN THE CONSTRUCTED NATURAL STREAM CHANNEL PLANS AND THE PERMITTED NATURAL STREAM CHANNEL PLANS. SUBMIT THE AS-BUILT PLANS TO THE TDOT ENVIRONMENTAL DIVISION MITIGATION OFFICE AT TDOT.ENV.MITIGAITION@TN.GOV AND TO THE TDOT DISTRICT SUPERVISOR.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-500(50)	NS2D1

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02/14/2025



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

SPECIAL  
NOTES



## ENVIRONMENTAL NOTES

## ENVIRONMENTAL GENERAL NOTES

## NATURAL RESOURCES

- (1) SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EPSC MEASURES TO PROTECT NATURAL RESOURCES AND WATER QUALITY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EPSC MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG NATURAL RESOURCES IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS, WETLANDS OR OTHER NATURAL FEATURES IN ACCORDANCE WITH TDOT STANDARDS. EPSC MEASURES SHALL BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED. THE ONLY EXCEPTION TO THIS IS THE REMOVAL OF THE DAM AND ACCUMULATED SEDIMENT IMPOUNDED BEHIND THE DAM. IT IS UNDERSTAND THAT SOME SEDIMENT WILL BE RELEASED DURING THE REMOVAL OF THE DAM AND ACCUMULATED SEDIMENTS.
- (2) NEW CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY AND STABILIZED FOR AT LEAST 72 HOURS PRIOR TO DIVERTING WATER FROM THE EXISTING AND/OR TEMPORARY CHANNEL.
- (3) INSTREAM DEVICES REQUIRE THE TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION REVIEW AND MUST BE PROCESSED BY THE PERMITS SECTION TO OBTAIN WATER QUALITY PERMITS.
- (4) THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS AND EPHEMERAL, INTERMITTENT, AND PERENNIAL STREAMS, IS NOT ALLOWED EXCEPT AS PROVIDED HEREIN.
- (5) THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING, NOT TO EXCEED THE WIDTH SPECIFIED IN THE STANDARD DRAWING.
- (6) STREAM BEDS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR CONSTRUCTION EQUIPMENT. TEMPORARY CULVERT CROSSINGS SHALL BE LIMITED TO ONE POINT PER STREAM AND EPSC MEASURES SHALL BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK SHALL BE USED AT THE CROSSING POINT AND CULVERTED TO PREVENT THE IMPOUNDMENT OF WATER FLOW. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION, WHICH CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS. OTHER MATERIALS USED FOR ALL TEMPORARY FILLS SHALL BE COMPLETELY REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED AND THE AFFECTED AREAS RETURNED TO PREEXISTING ELEVATIONS. ALL TEMPORARY CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. EC-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ALTERNATIVELY, PLACING A TEMPORARY BRIDGE (E.G. BAILEY BRIDGE OR EQUIVALENT, TIMBERS, ETC.) FROM TOP OF BANK TO TOP OF BANK OR THE APPROPRIATE USE OF BARGES AT THE CROSSING TO AVOID DISTURBANCE OF THE STREAMBED IS AN ACCEPTABLE OPTION.
- (7) HEAVY EQUIPMENT WORKING IN WETLANDS WITH PERMITTED TEMPORARY IMPACTS SHALL BE PLACED ON MATS. OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE AND COMPACTION UNLESS SPECIFICALLY ADDRESSED IN THE CONSTRUCTION PLANS. ANY MATS AND OTHER MEASURES USED FOR HEAVY EQUIPMENT SHALL BE REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED. ALL AFFECTED AREAS SHOULD BE RETURNED TO PRE-EXISTING CONDITIONS.
- (8) WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS SPECIFICALLY PROVIDED FOR IN THE CONSTRUCTION PLANS AND PERMITS.

## SPECIES

- (10) NO ACTIVITY MAY SUBSTANTIALLY DISRUPT THE MOVEMENT OF THOSE SPECIES OF AQUATIC LIFE INDIGENOUS TO THE WATER BODY, INCLUDING THOSE SPECIES THAT NORMALLY MIGRATE THROUGH THE AREA.
- (11) SHOULD CLIFF SWALLOW OR BARN SWALLOW NESTS, EGGS, OR BIRDS (YOUNG AND ADULTS) BE PRESENT, THE CONTRACTOR SHALL CONTACT THE REGIONAL ECOLOGY OFFICE TO DETERMINE IF SEASONAL RESTRICTIONS WILL BE NECESSARY. GENERALLY, BIRDS, NESTS, AND

EGGS MAY NOT BE DISTURBED BETWEEN APRIL 15 AND JULY 31. FROM AUGUST 1 TO APRIL 14, NESTS CAN BE REMOVED OR DESTROYED SO LONG AS BIRDS OR EGGS ARE NOT PRESENT, AND MEASURES IMPLEMENTED TO PREVENT FUTURE NEST BUILDING AT THE SITE (I.E., CLOSING OFF AREA USING NETTING).

- (12) IF THE REMOVAL OF ANY TREES WITH A DIAMETER AT BREAST HEIGHT (DBH) GREATER THAN 3 INCHES IS DEEMED NECESSARY THE TDOT SUPERVISOR SHALL CONTACT THE TCOT ENVIRONMENTAL DIVISION, ECOLOGY SECTION IMMEDIATELY.

## PERMITS, PLANS & RECORDS

- (13) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO ARCHAEOLOGY, ECOLOGY, HISTORICAL, HAZARDOUS MATERIALS, AIR AND NOISE, TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING ANY MATERIAL AND STAGING AREAS AND THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS TO BE USED. ANY SUCH PERMITS SHALL BE SUPPLIED TO THE TDOT PROJECT RESPONSIBLE PARTY PRIOR TO THE USE OF THE PERMITTED AREA(S).
- (14) ANY DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE TDOT PROJECT RESPONSIBLE PARTY. THE ENVIRONMENTAL DIVISION, DESIGN DIVISION, AND HEADQUARTERS CONSTRUCTION OFFICE SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.
- (15) IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE TDOT PERMIT SECTION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS ARE NEEDED. THE ROADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.
- (16) THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATE. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE TDOT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.
- (17) ALL WATER QUALITY PERMITS SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. THE NAME, COMPANY NAME, EMAIL ADDRESS, TELEPHONE NUMBER AND ADDRESS OF THE PROJECT SITE OWNER, OPERATOR, OR A LOCAL CONTACT PERSON WITH A BRIEF DESCRIPTION OF THE PROJECT SHALL ALSO BE POSTED. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE, THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY. THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE. ALL POSTINGS SHALL BE MAINTAINED IN LEGIBLE CONDITION.

## SUPPORT ACTIVITIES

- (18) MATERIALS AND STAGING AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY ENVIRONMENTAL PERMITS, OBTAINED SOLELY BY THE CONTRACTOR. THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATES. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE TDOT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.

## STREAMS, WETLANDS & BUFFER ZONES

- (19) ONCE WATER IS DIVERTED INTO A NEWLY CONSTRUCTED AND STABILIZED RELOCATED STREAM / CHANNEL THE ECOLOGY SECTION SHALL BE NOTIFIED. THE STREAM NAME, STREAM NUMBER, AND DATE THE WATER WAS DIVERTED INTO THE NEWLY CONSTRUCTED STREAM / CHANNEL SHALL BE SUPPLIED WITH THE NOTIFICATION.

## ENVIRONMENTAL SPECIAL NOTES

## ENVIRONMENTAL

- (1) THE PROJECT IS WITHIN A SECTION OF THE PISTOL CREEK REACH DESIGNATED 'EXCEPTIONAL TENNESSEE WATER" STREAM. THE PRECONSTRUCTION ROADWAY DESIGN MANAGER SHALL NOTIFY THE

APPROPRIATE PRECONSTRUCTION DIRECTOR. THE ROADWAY DESIGN DIVISION ASSISTANT DIRECTOR SHALL IN TURN REQUEST ADDITIONAL GUIDANCE FROM THE ENVIRONMENTAL DIVISION PERMITS SECTION AND THE CONSTRUCTION DIVISION REGARDING APPROPRIATENESS OF SEASONAL LIMITATIONS AND LIMITATIONS ON THE TOTAL AREA OF EXPOSED SOIL.

- (2) STAFF FROM THE TDDT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE SHALL BE INVITED TO ALL PRE-CONSTRUCTION MEETINGS.

## ECOLOGY

- (3) STAFF FROM THE TDDT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ADVISE THE CONTRACTOR DURING THE PRE-CONSTRUCTION MEETING WHEN ENVIRONMENTAL DIVISION PERSONNEL OR A DESIGNATED CONSULTANT WILL NEED TO BE ONSITE FOR WORK BEING DONE WHICH COULD AFFECT WATERS OF THE STATE/U.S. OR SPECIES.
- (4) STAFF FROM THE TDDT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ATTEND THE PRE-CONSTRUCTION MEETING FOR ALL PROJECTS WHICH HAVE THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT PROXIMAL TO SCHEDULED WORK. THIS WILL PROVIDE THE OPPORTUNITY TO ENSURE THAT PERSONNEL INCLUDING THE CONTRACTOR'S PERSONNEL AND SUBCONTRACTORS ARE MADE AWARE OF THE NECESSARY PRECAUTIONS THAT MUST BE FOLLOWED.
- (5) ALL PROJECTS WITH LEGALLY PROTECTED SPECIES OR CRITICAL HABITAT IDENTIFIED SHALL HAVE MEASURES IN PLACE TO CONTAIN CONCRETE DUST, CEMENT DUST AND ALL OTHER MATERIALS. THESE MATERIALS ARE NOT ALLOWED TO ENTER WATERS OF THE STATE/U.S.

## SCOPE OF WORK

- (6) THE TENNESSEE DEPARTMENT OF TRANSPORTATION (TDOT) IS PROPOSING CONSTRUCTION TO REMOVE A CONCRETE GRAVITY TYPE DAM ON PISTOL CREEK. FOLLOWING REMOVAL, THE DAM WILL BE FULLY BREACHED AND WILL NO LONGER IMPOUND WATER OR FUNCTION AS A DAM. THE DAM WILL BE LOWERED INCREMENTALLY, AND EASE FLOW WILL BE DIRECTED TO THE EXTENT POSSIBLE AWAY FROM CONSTRUCTION. THE REMOVAL ACTIVITIES INCLUDE CONSTRUCTION OF AN ACCESS ROAD TO THE DAM, INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES, EXCAVATION OF SEDIMENT UPSTREAM OF THE DAM, DEMOLITION OF DAM STRUCTURE, PLACEMENT OF IN-CHANNEL STRUCTURES, STREAMEANK STABILIZATION, AND RIPARIAN TREE PLANTING. THE PROJECT BOUNDARY EXTENDS APPROXIMATELY 140 FEET UPSTREAM OF THE DAM AND 18 FEET BELOW THE DAM FOR A TOTAL LENGTH OF 158 FEET. THE WORK AREA ASSOCIATED WITH THE REMOVAL OF THE DAM AND GRADING OF THE CHANNEL IS APPROXIMATELY 1.580 ACRES.

YEAR	PROJECT NO.	SHEET NO.
2021	STP-500(50)	NS2E
2025	STP-500(50)	NS2E

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02/14/2025

**STATE OF TENNESSEE**  
**DEPARTMENT OF TRANSPORTATION**

## ENVIRONMENTAL NOTES



\$\$\$\$SYTIME\$\$\$\$  
 \$\$\$DGNSECS\$\$\$  
 \$\$\$

CONTRACTOR SHALL MAKE PROVISIONS FOR THE SATISFACTORY DISPOSAL OF  
1,103 C.Y. OF EXCESS MATERIAL

## Pipe Tabulation For Local Roadways

(1)  
(1)  
(1)  
(1)  
(1)  
(1)  
(1)  
(1)  
(1)  
(1)  
(1)  
(1)

(1) SEE SHEET NS11 "PLANTING PLAN NOTES AND DETAILS" FOR PLANTING RATES. LIVE STAKES SHALL BE INSTALLED IN ACCORDANCE WITH CONSTRUCTION DETAIL D-NSD-34.

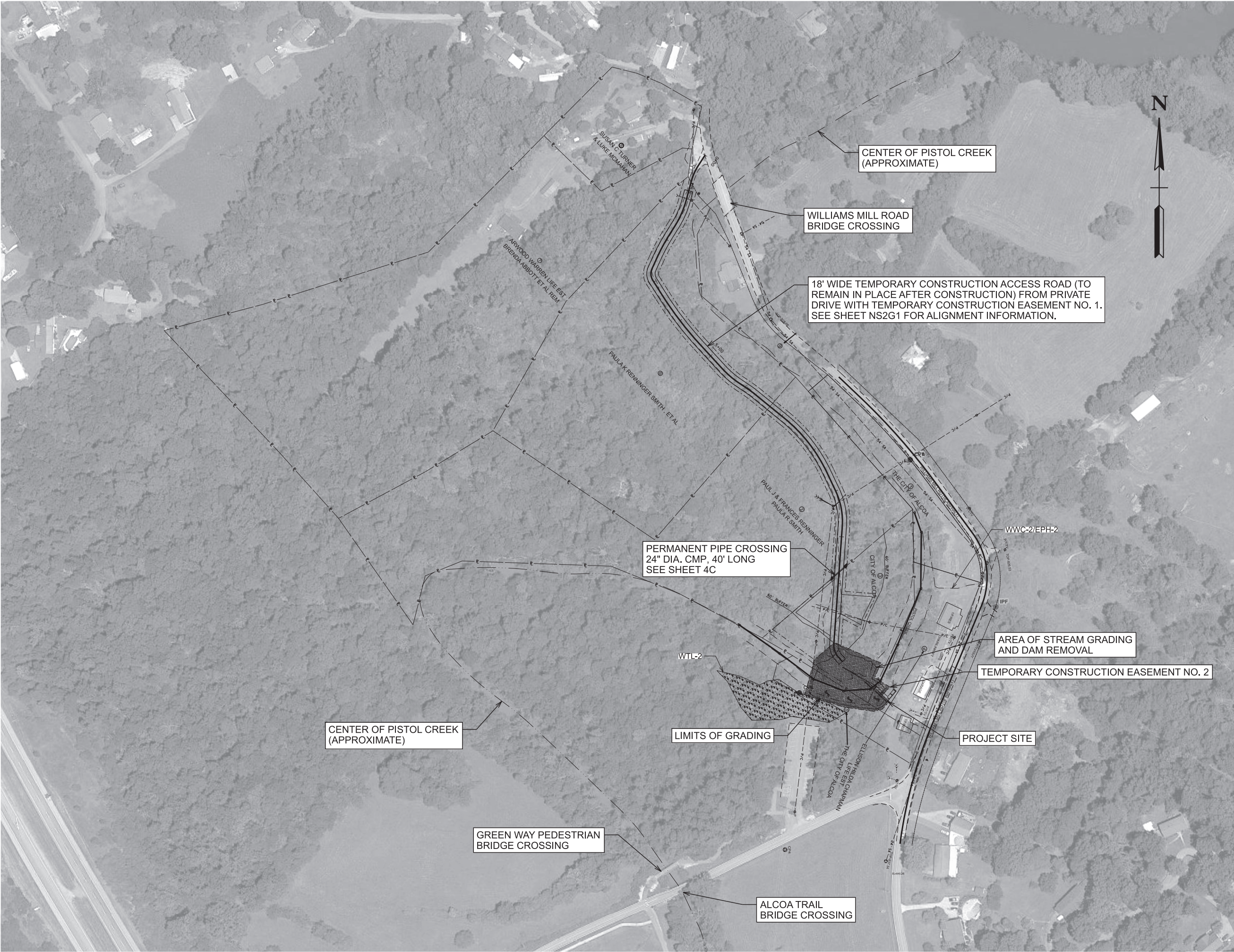
02/14/2025

**STATE OF TENNESSEE**  
**DEPARTMENT OF TRANSPORTATION**

## TABULATED QUANTITIES



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-500(50)	NS2G
PS&E	2025	STP-500(50)	NS2G



LEGEND

- TEMPORARY CONSTRUCTION EASEMENT NO. 1
- TEMPORARY CONSTRUCTION EASEMENT NO. 2
- RIGHT-OF-WAY
- PROPERTY LINE

TEMPORARY CONSTRUCTION EASEMENT NOTES

PROPOSED TEMPORARY CONSTRUCTION EASEMENT NO. 1  
TO BE USED FOR WORKING ROOM AND EPSC MEASURES  
FOR TWO YEARS

PROPOSED TEMPORARY CONSTRUCTION EASEMENT NO. 2  
TO BE USED FOR CONSTRUCTION AND MONITORING FOR  
SEVEN YEARS.

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02/14/2025

COORDINATES ARE NAD/83(1995),  
ARE DATUM ADJUSTED BY THE  
FACTOR OF 1.00009 AND TIED TO  
THE TGRN. ALL ELEVATIONS ARE  
REFERENCED TO THE NAVD 1988.

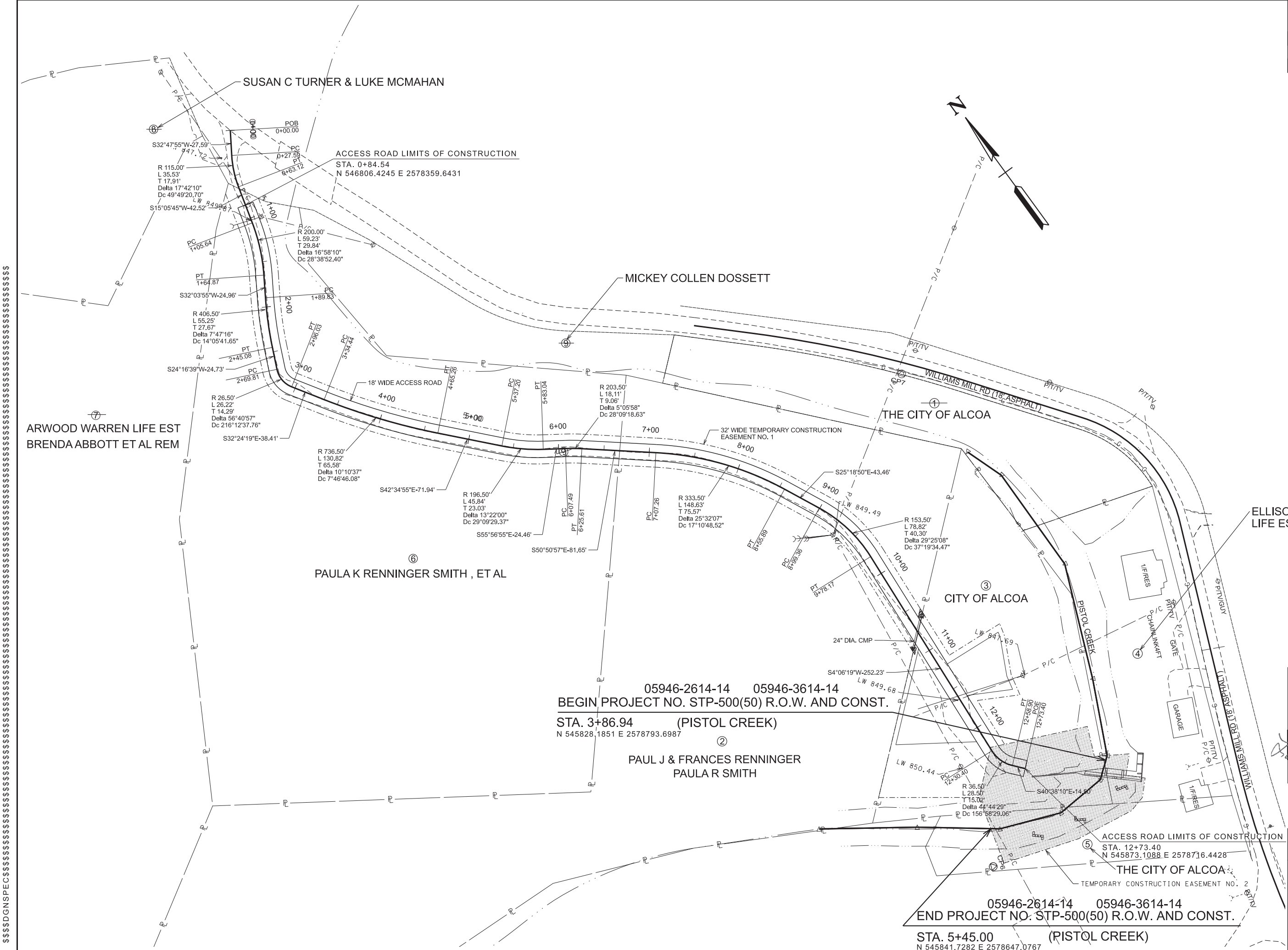
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

DETAIL  
SHEET

ACCESS ROAD  
SCALE: 1"=100'



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-500(50)	NS2G1
PS&E	2025	STP-500(50)	NS2G1



05946-2614-14 05946-3614-14  
BEGIN PROJECT NO. STP-500(50) R.O.W. AND CONST.  
STA. 3+86.94 (PISTOL CREEK)  
N 545828.1851 E 2578793.6987

05946-2614-14 05946-3614-14  
END PROJECT NO. STP-500(50) R.O.W. AND CONST.  
STA. 5+45.00 (PISTOL CREEK)  
N 545841.7282 E 2578647.0767

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REGISTERED ENGINEER  
AGRICULTURE  
STATE OF TENNESSEE

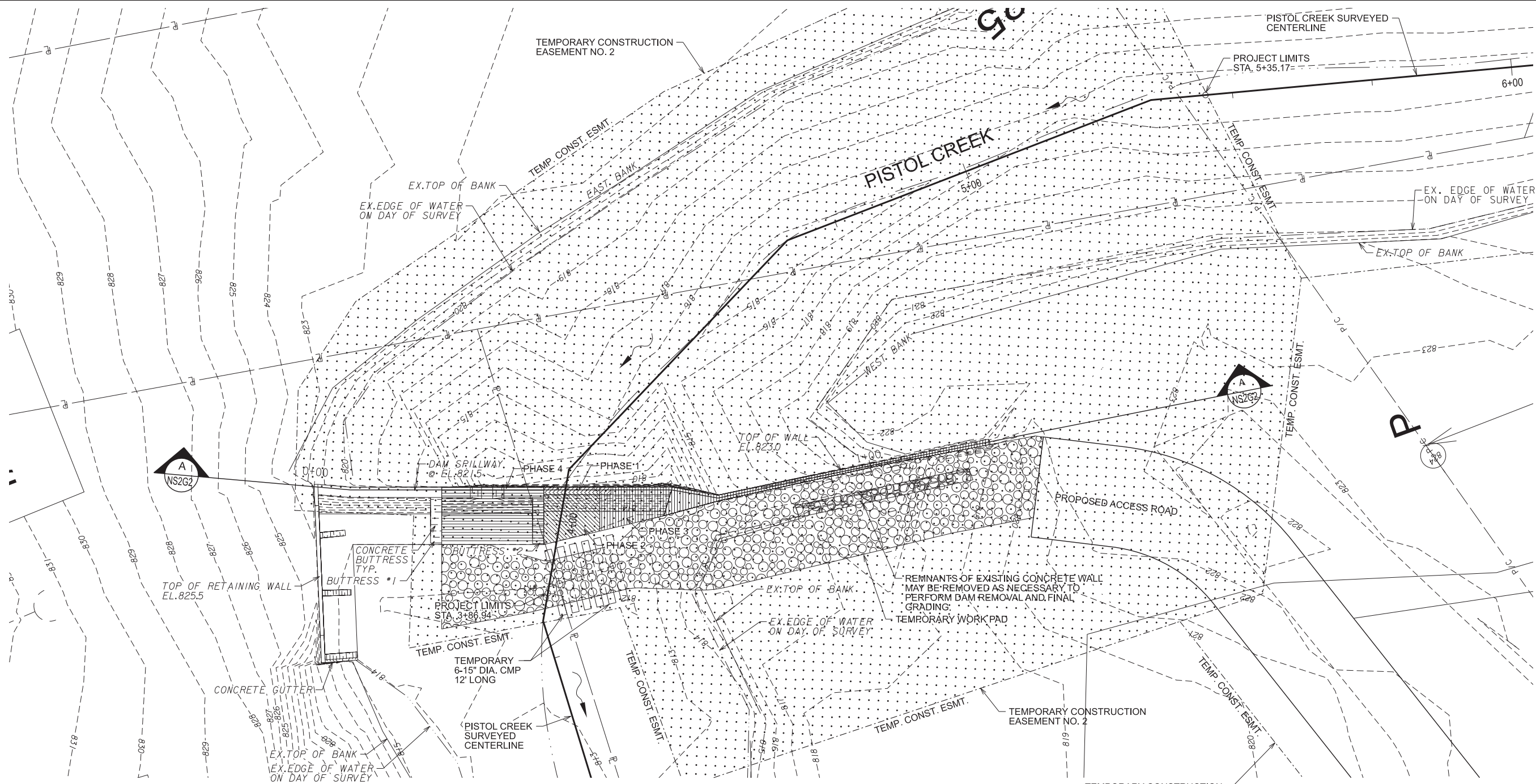
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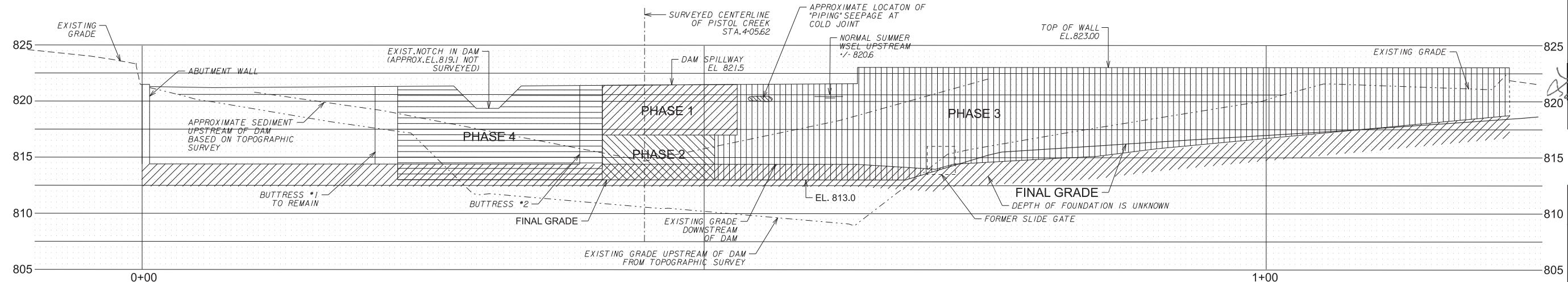
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

DETAIL  
SHEET  
ACCESS ROAD  
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-500(50)	NS2G2
PS&E	2025	STP-500(50)	NS2G2



PLAN - DAM REMOVAL SEQUENCE OVERVIEW  
SCALE: 1"=10'



SECTION  
(LOOKING UPSTREAM)  
SCALE: 1"=5'

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02/14/2025

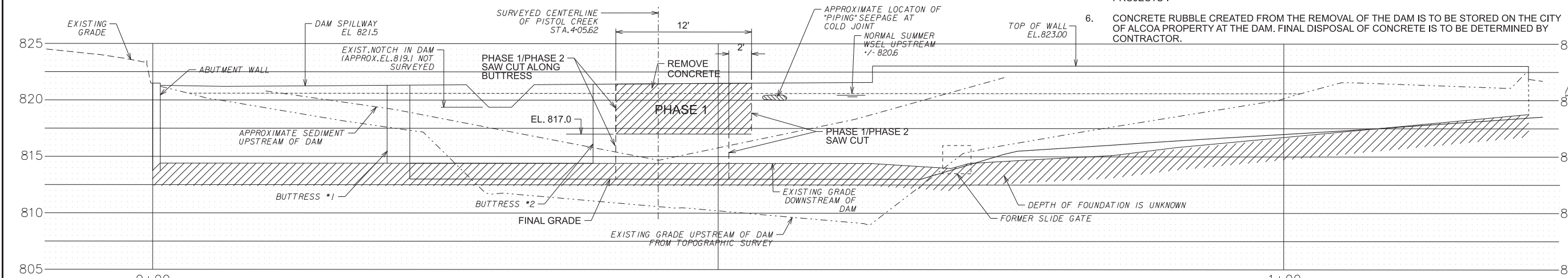
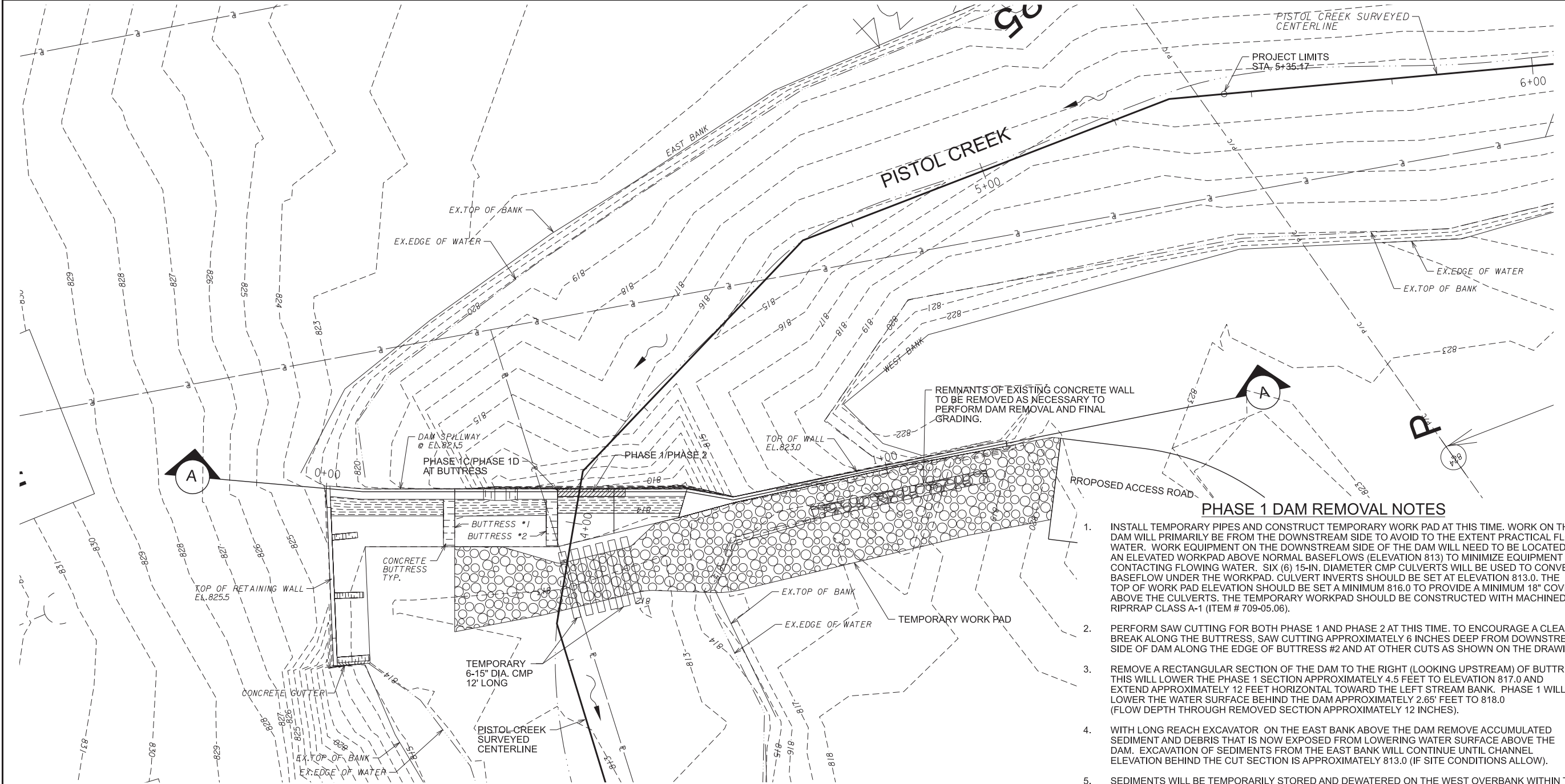
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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

DETAIL  
SHEET  
DAM REMOVAL  
SEQUENCE OVERVIEW



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-500(50)	NS2G3
PS&E	2025	STP-500(50)	NS2G3



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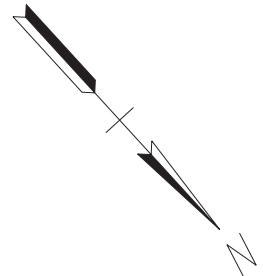
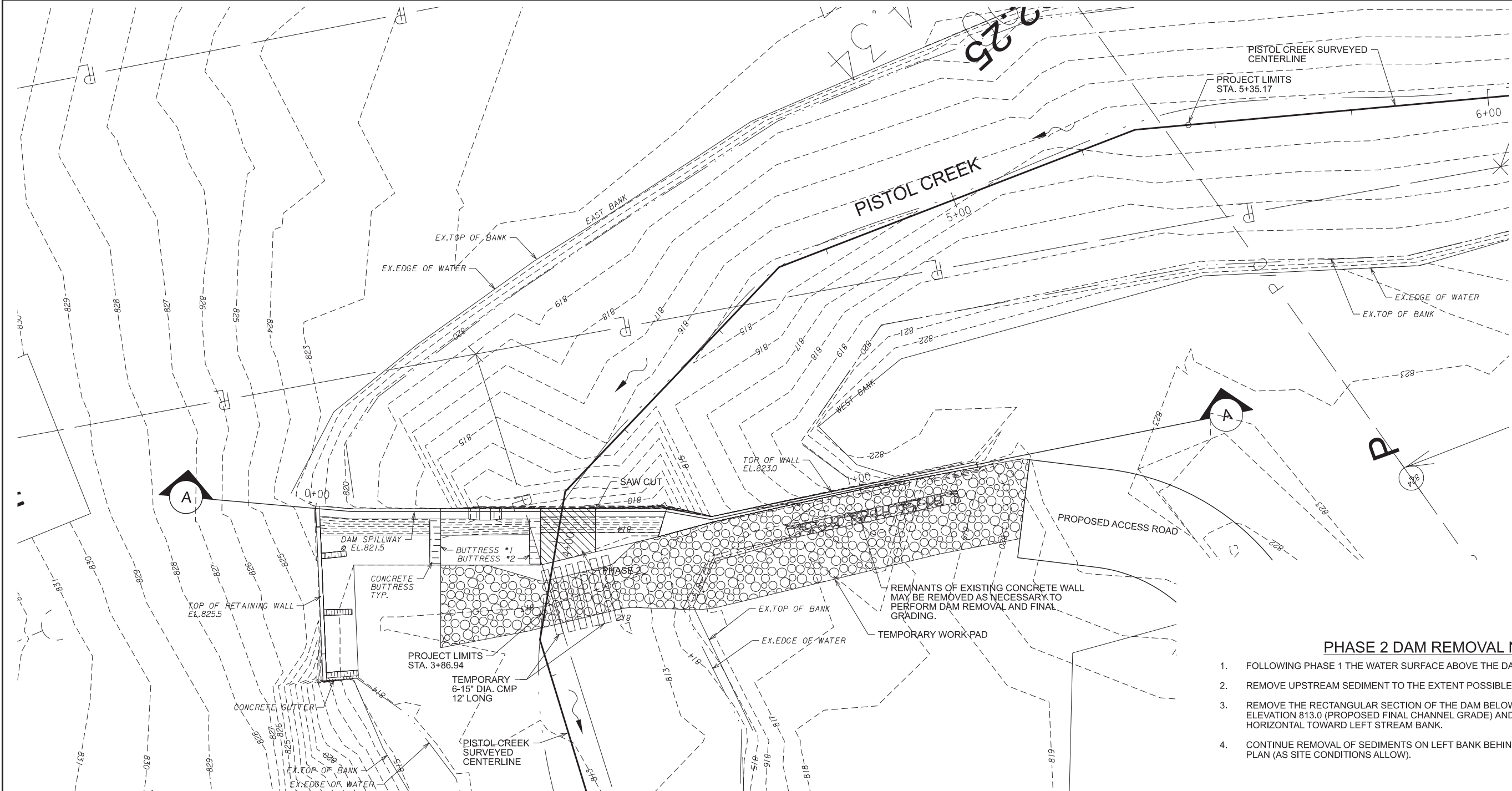
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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

DETAIL SHEET  
DAM REMOVAL  
PHASE 1

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-500(50)	NS2G4
PS&E	2025	STP-500(50)	NS2G4

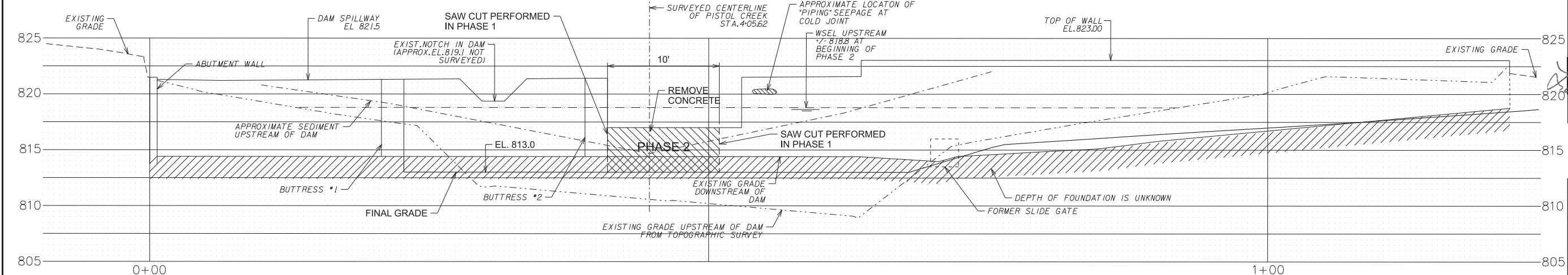


PHASE 2 DAM REMOVAL NOTES

1. FOLLOWING PHASE 1 THE WATER SURFACE ABOVE THE DAM WILL BE APPROXIMATELY 818.0.
2. REMOVE UPSTREAM SEDIMENT TO THE EXTENT POSSIBLE WITH THE LOWER WATER SURFACE.
3. REMOVE THE RECTANGULAR SECTION OF THE DAM BELOW THE PHASE 1 SECTION (EL 817.0) TO ELEVATION 813.0 (PROPOSED FINAL CHANNEL GRADE) AND EXTEND APPROXIMATELY 10 FEET HORIZONTAL TOWARD LEFT STREAM BANK.
4. CONTINUE REMOVAL OF SEDIMENTS ON LEFT BANK BEHIND DAM TOWARD THE FINAL GRADING PLAN (AS SITE CONDITIONS ALLOW).

PLAN - DAM REMOVAL PHASE 2

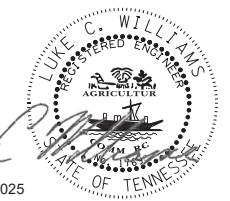
SCALE: 1"=10'



SECTION  
(LOOKING UPSTREAM)  
SCALE: 1"=5'

A  
NS2G4

SEALED BY



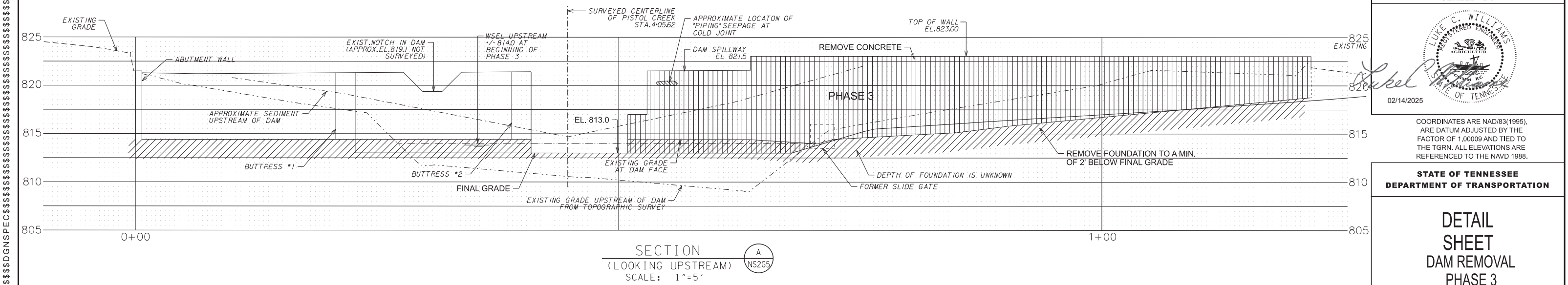
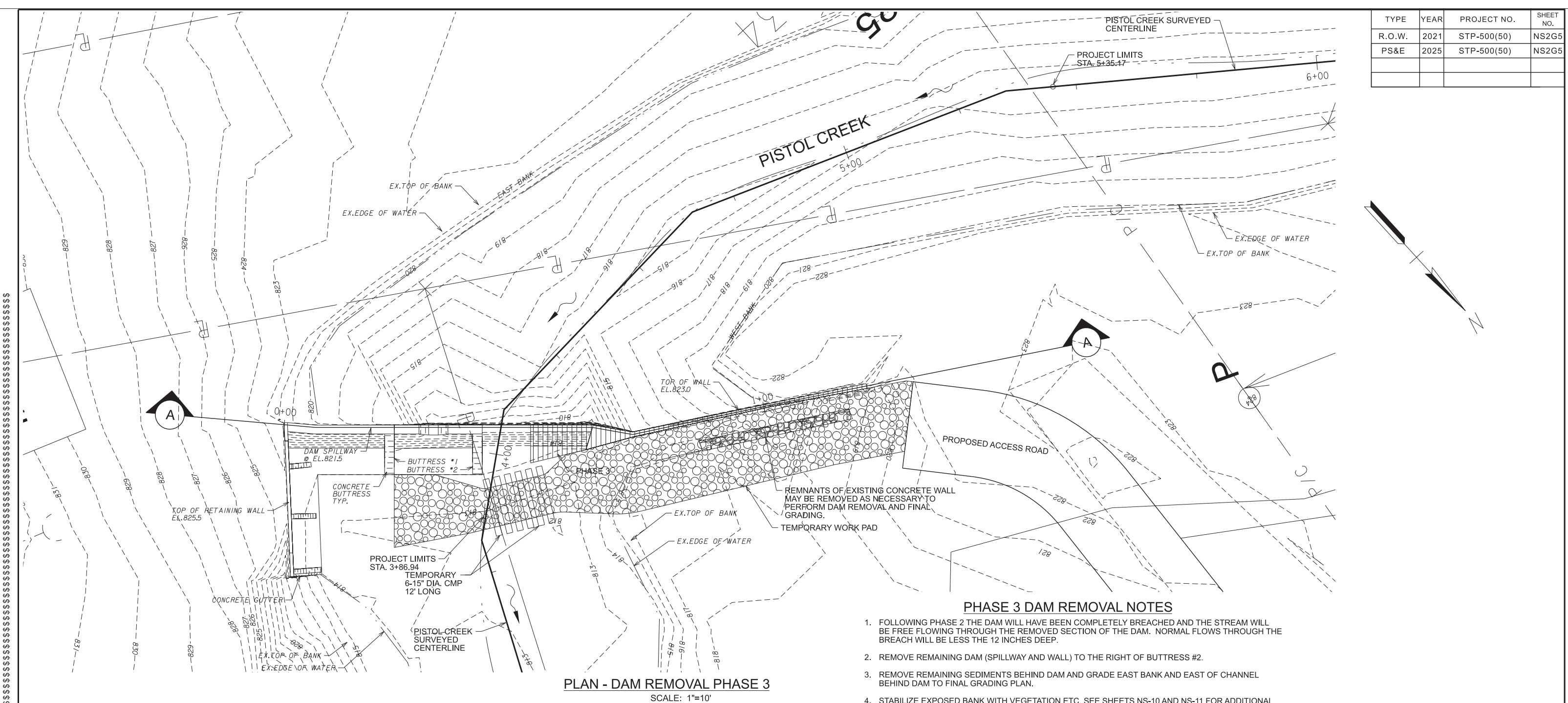
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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

DETAIL  
SHEET  
DAM REMOVAL  
PHASE 2



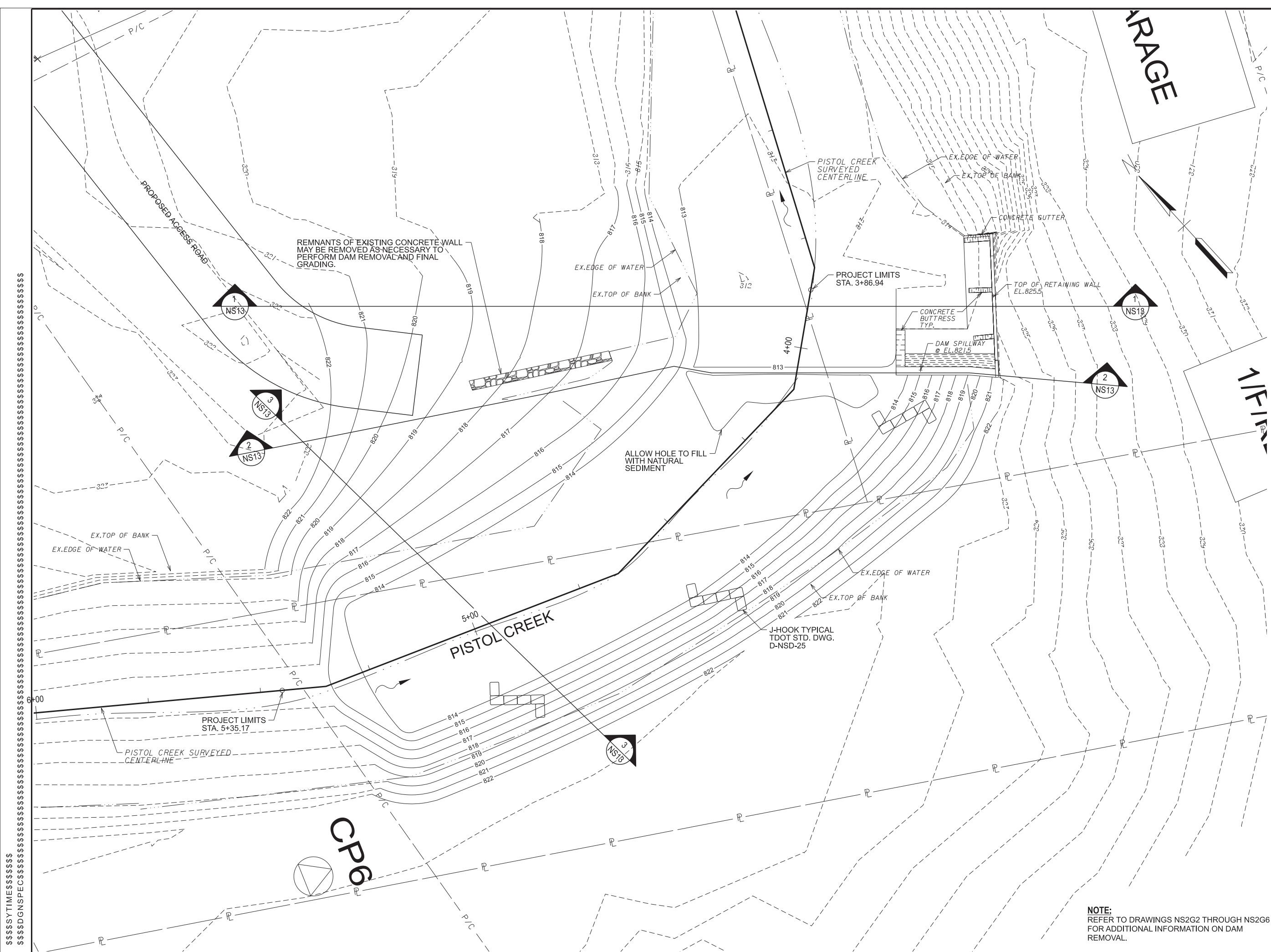
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-500(50)	NS2G5
PS&E	2025	STP-500(50)	NS2G5







TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-500(50)	NS2G7



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REGISTERED ENGINEER  
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STATE OF TENNESSEE

02/14/2025

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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

DETAIL SHEET  
ENLARGED  
PROPOSED  
LAYOUT  
SCALE: 1"=10'

NOTE:  
REFER TO DRAWINGS NS2G2 THROUGH NS2G6  
FOR ADDITIONAL INFORMATION ON DAM  
REMOVAL.



\$\$\$\$SYTIME\$\$\$\$\$\$\$\$\$  
\$\$\$\$DGNSECD\$\$\$\$\$\$\$\$\$

R.O.W. ACQUISITION TABLE																	
TRACT NO.	PROPERTY OWNER	COUNTY RECORDS				TOTAL AREA ACRES			AREAS TO BE ACQUIRED ACRES			AREAS REMAINING ACRES			EASEMENTS TO BE ACQUIRED		
		TAX MAP NO.	PARCEL NO.	DEED BOOK	PAGE NO.	LT.	RT.	TOTAL (AC)	LT.	RT.	TOTAL (AC)	LT.	RT.	TOTAL (AC)	PERM. DRAINAGE	CONST. (2)	CONST. (1)
1	CITY OF ALGOA	027	025.00	640	80			0.884									
2	PAUL J & FRANCES RENNINGER, PAULA R SMITH	027	024.00	148	514			7.5									0.300 AC.
3	CITY OF ALCOA	027	026.00	639	763			1.8								0.237 AC.	0.444 AC.
4	ELLISON HILDA CHAPMAN LIFE EST.	027	026.01	522	344			0.967								1,667 SF	
5	CITY OF ALCOA	027	027.00	641	760			5.000								0.132 AC.	
6	PAULA K RENNINGER SMITH , ET AL	027	023.00	216	138			5.1									0.441 AC.
7	ARWOOD WARREN LIFE EST, BRENDA ABBOTT ET AL REM	027F	048.01	027G, Group B	048.01			8.2									
8	SUSAN C TURNER & LUKE MCMAHAN	027F	048.00	2109	634			1.26									
9	MICKEY COLLEEN DOSSETT	027	022.00	662	396			-									

TEMPORARY CONSTRUCTION EASEMENT NOTES

PROPOSED TEMPORARY CONSTRUCTION EASEMENT NO. 1  
TO BE USED FOR WORKING ROOM AND EPSC MEASURES  
FOR TWO YEARS

PROPOSED TEMPORARY CONSTRUCTION EASEMENT NO. 2  
TO BE USED FOR CONSTRUCTION AND MONITORING FOR  
SEVEN YEARS.

DISTURBED AREA		
IN BETWEEN SLOPE LINES	1.580	(AC)
15 FOOT WIDE STRIP (OUT SIDE SLOPE LINES)	0.000	(AC)
TOTAL DISTURBED AREA	1.580	(AC)
TOTAL PROJECT AREA	1.580	(AC)

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-500(50)	NS3A
PS&E	2025	STP-500(50)	NS3A

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REGISTERED ENGINEER

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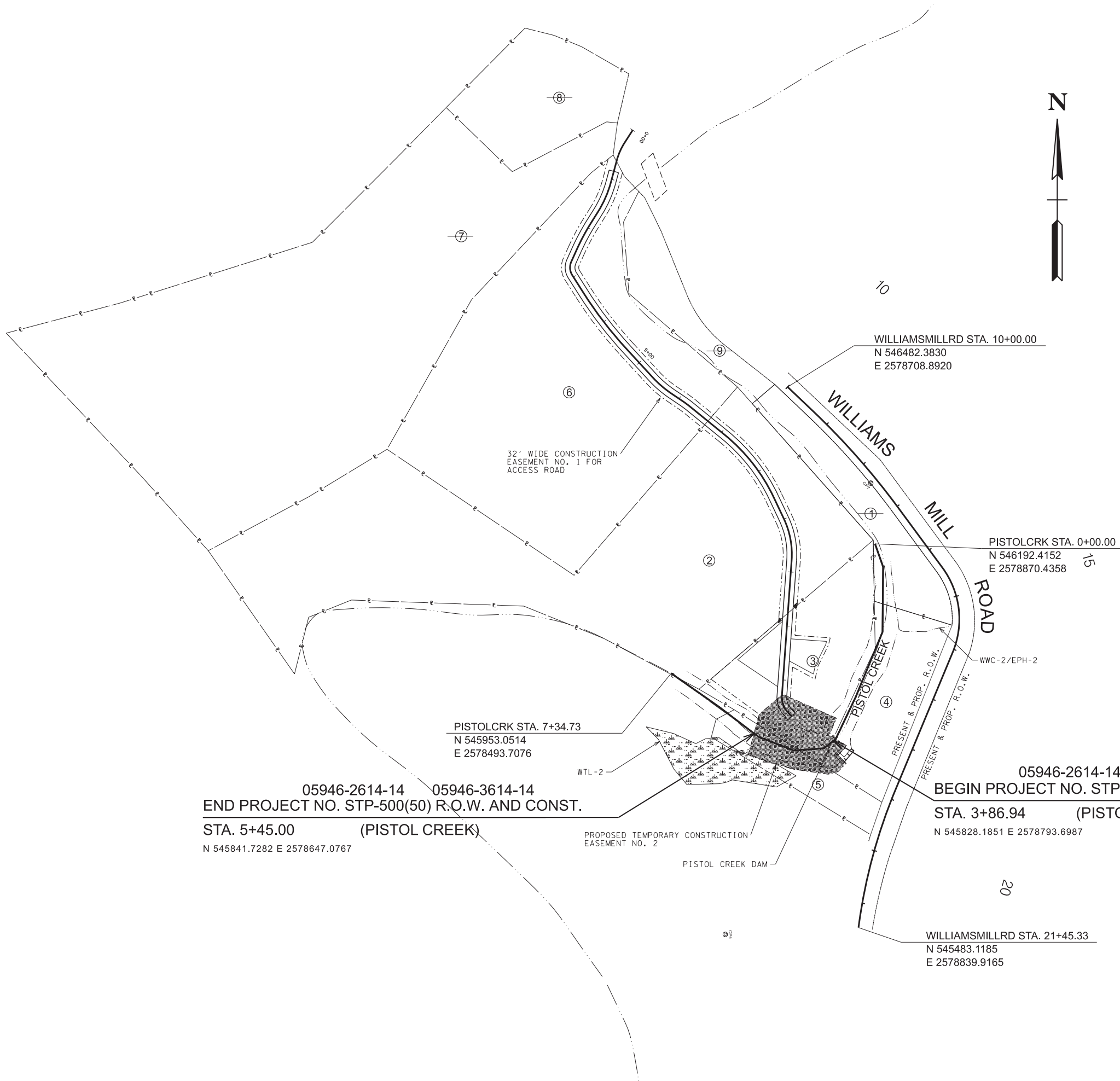
STATE OF TENNESSEE

02/14/2025

STATE OF TENNESSEE  
DEPARTMENT OF  
TRANSPORTATION

ROW ACQUISITION  
TABLE

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-500(50)	NS3B
PS&E	2025	STP-500(50)	NS3B



NOTE:  
PROPERTY BOUNDARIES WERE PROVIDED BY ALCOA  
SURVEY 10/8/2019 AND LDA ENGINEERING 09/14/2021  
AND 11/30/2021.

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02/14/2025

COORDINATES ARE NAD/83(1995),  
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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

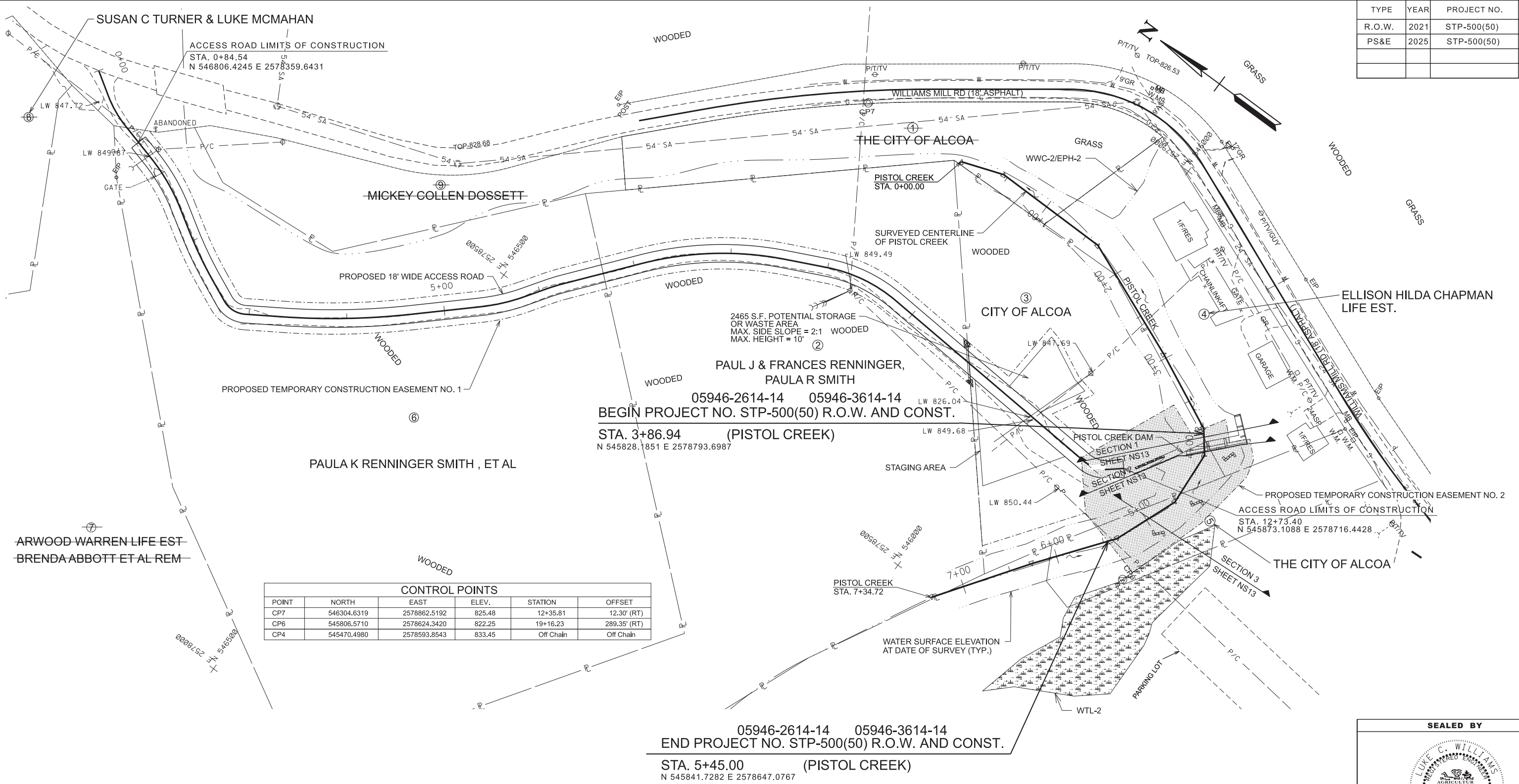
PROPERTY  
MAP

SCALE: 1"=100'

\$\$\$\$SYTIME\$\$\$\$  
\$\$\$\$DGN\$PEC\$\$\$\$



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-500(50)	NS4
PS&E	2025	STP-500(50)	NS4



CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
CP7	546304.6319	2578862.5192	825.48	12+35.81	12.30' (RT)
CP6	545806.5710	2578624.3420	822.25	19+16.23	289.35' (RT)
CP4	545470.4980	2578593.8543	833.45	Off Chain	Off Chain

SURVEYED CREEK CENTER LINE DATA			
FROM	TO	BEARING	DISTANCE
POB STA. 0+00.00	PI STA. 0+45.24	S 19°24'56" E	45.24'
PI STA. 0+45.24	PI STA. 1+65.52	S 0°32'25" W	120.28'
PI STA. 1+65.52	PI STA. 2+95.66	S 22°25'49" W	130.14'
PI STA. 2+95.66	PI STA. 3+81.92	S 25°25'07" W	86.26'
PI STA. 3+81.92	PI STA. 4+09.34	S 52°05'42" W	27.42'
PI STA. 4+09.34	PI STA. 4+65.85	S 83°03'08" W	56.51'
PI STA. 4+65.85	PI STA. 5+35.40	N 38°40'54" W	69.56'
PI STA. 5+35.40	PI STA. 6+26.53	N 52°47'10" W	91.13'
PI STA. 6+26.53	PCE STA. 7+34.72	N 54°57'29" W	108.19'


**TEMPORARY CONSTRUCTION EASEMENT NOTES**

**PROPOSED TEMPORARY CONSTRUCTION EASEMENT NO. 1**  
TO BE USED FOR WORKING ROOM AND EPSC MEASURES FOR TWO YEARS

**PROPOSED TEMPORARY CONSTRUCTION EASEMENT NO. 2**  
TO BE USED FOR CONSTRUCTION AND MONITORING FOR SEVEN YEARS.

NOTE: SEE SHEET NS2G1 FOR ACCESS ROAD ALIGNMENT INFORMATION.

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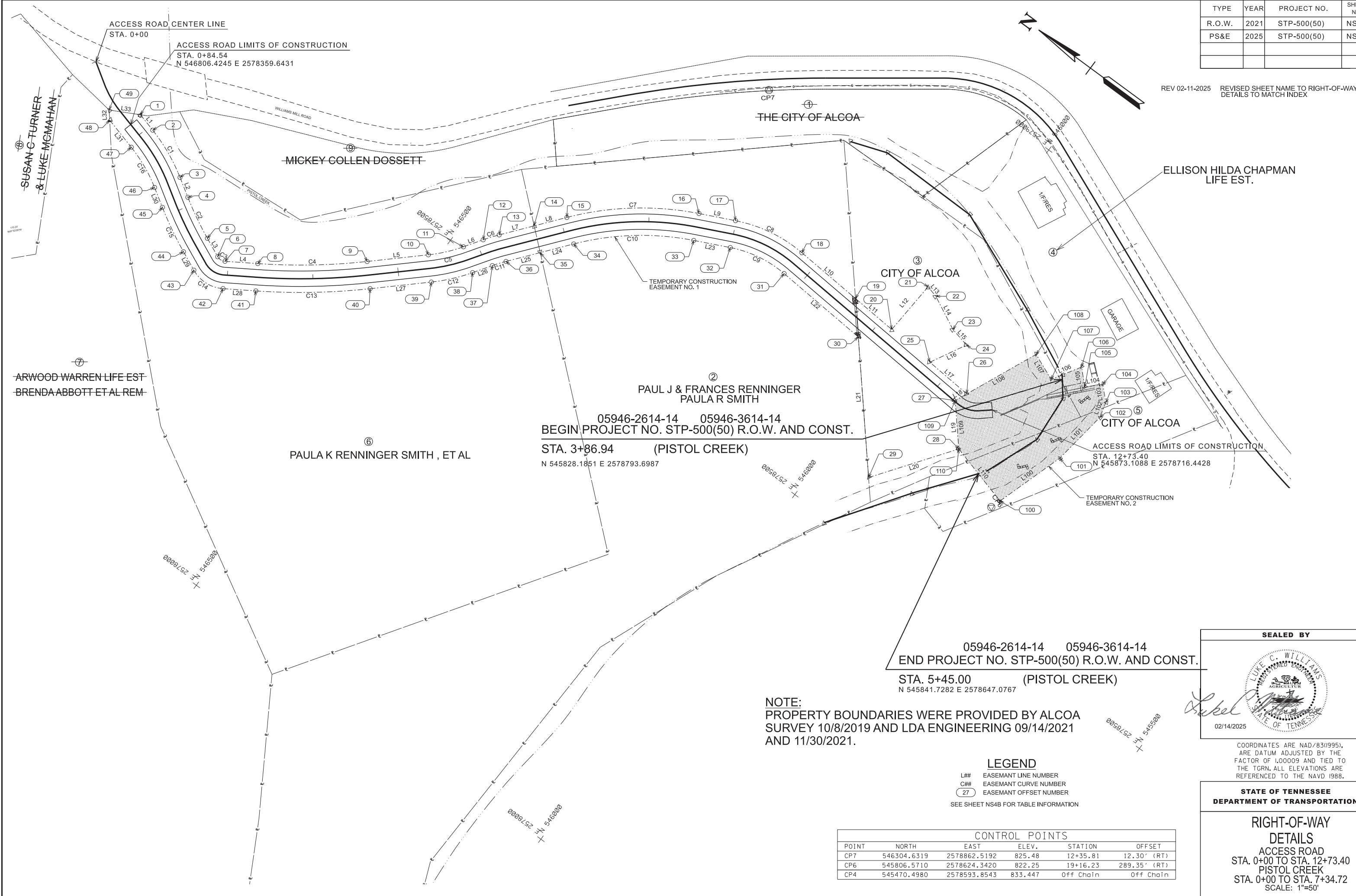
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.0+00 TO STA.7+34.72  
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-500(50)	NS4A
PS&E	2025	STP-500(50)	NS4A

REV 02-11-2025 REVISED SHEET NAME TO RIGHT-OF-WAY  
DETAILS TO MATCH INDEX



05946-2614-14 05946-3614-14  
BEGIN PROJECT NO. STP-500(50) R.O.W. AND CONST.  
STA. 3+86.94 (PISTOL CREEK)  
N 545828.1851 E 2578793.6987

05946-2614-14 05946-3614-14  
END PROJECT NO. STP-500(50) R.O.W. AND CONST.  
STA. 5+45.00 (PISTOL CREEK)  
N 545841.7282 E 2578647.0767

NOTE:  
PROPERTY BOUNDARIES WERE PROVIDED BY ALCOA  
SURVEY 10/8/2019 AND LDA ENGINEERING 09/14/2021  
AND 11/30/2021.

LEGEND

- L## EASEMENT LINE NUMBER
- C## EASEMENT CURVE NUMBER
- 27 EASEMENT OFFSET NUMBER

SEE SHEET NS4B FOR TABLE INFORMATION

CONTROL POINTS					
POINT	NORTH	EAST	ELEV.	STATION	OFFSET
CP7	546304.6319	2578862.5192	825.48	12+35.81	12.30' (RT)
CP6	545806.5710	2578624.3420	822.25	19+16.23	289.35' (RT)
CP4	545470.4980	2578593.8543	833.447	Off Chain	Off Chain

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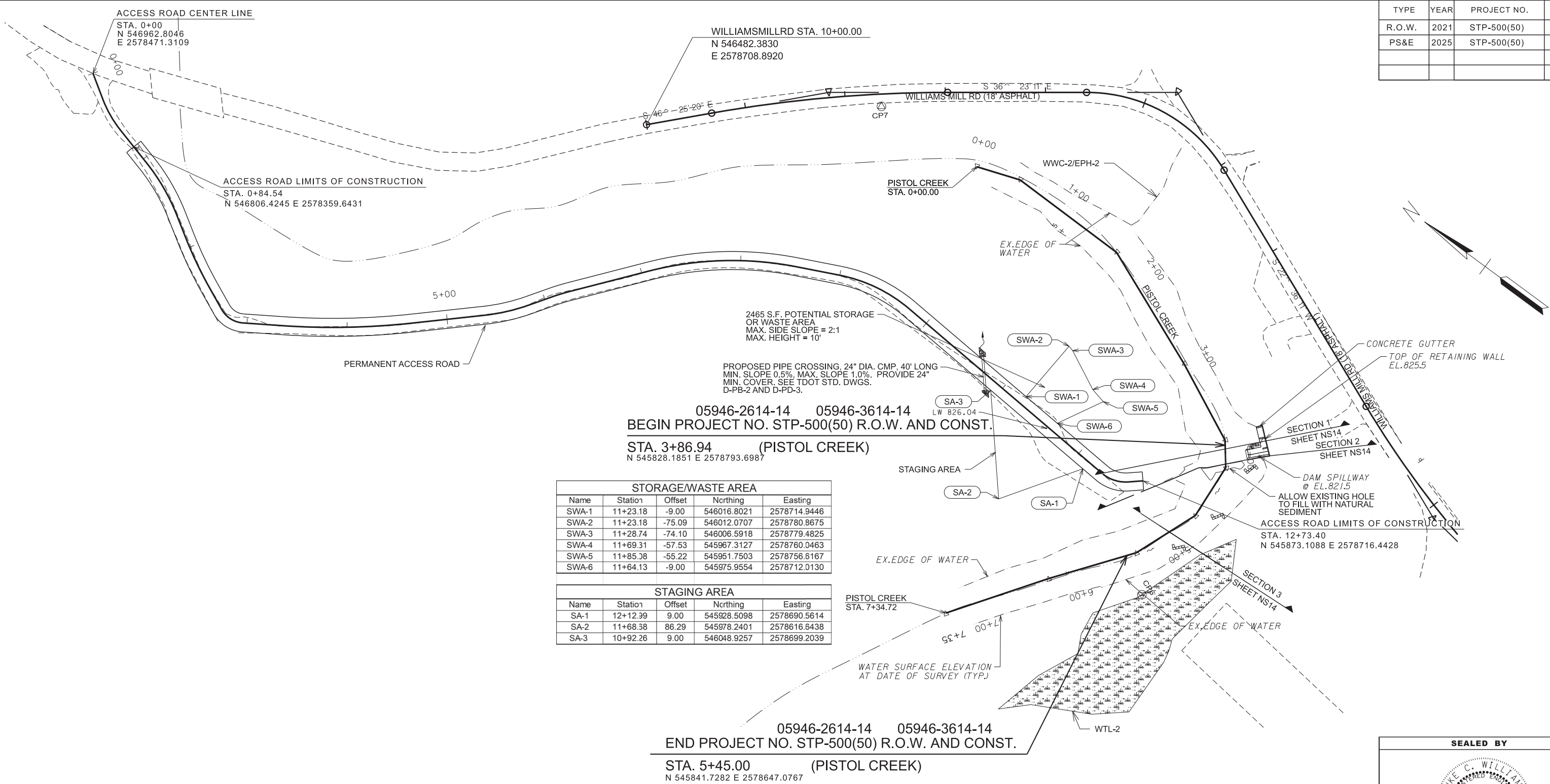
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY  
DETAILS  
ACCESS ROAD  
STA. 0+00 TO STA. 12+73.40  
PISTOL CREEK  
STA. 0+00 TO STA. 7+34.72  
SCALE: 1"=50'





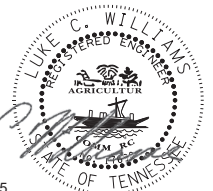
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-500(50)	NS4C
PS&E	2025	STP-500(50)	NS4B



STORAGE/WASTE AREA				
Name	Station	Offset	Northing	Easting
SWA-1	11+23.18	-9.00	546016.8021	2578714.9446
SWA-2	11+23.18	-75.09	546012.0707	2578780.8675
SWA-3	11+28.74	-74.10	546006.5918	2578779.4825
SWA-4	11+69.31	-57.53	545967.3127	2578760.0463
SWA-5	11+85.08	-55.22	545951.7503	2578756.6167
SWA-6	11+64.13	-9.00	545975.9554	2578712.0130

STAGING AREA				
Name	Station	Offset	Northing	Easting
SA-1	12+12.39	9.00	545928.5098	2578690.5614
SA-2	11+68.38	86.29	545978.2401	2578616.6438
SA-3	10+92.26	9.00	546048.9257	2578699.2039

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02/14/2025

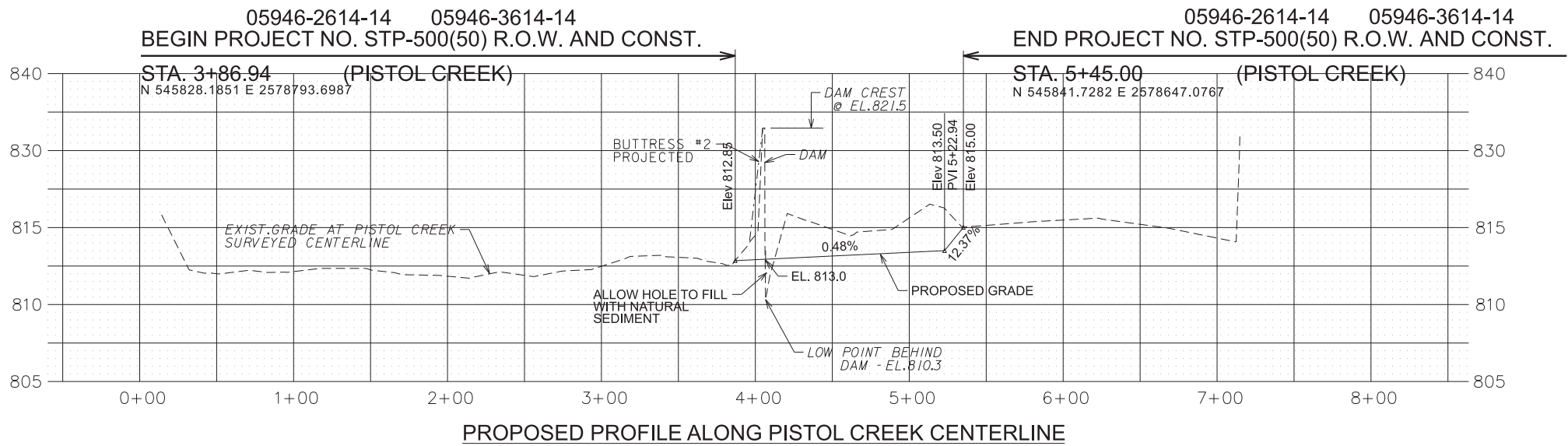
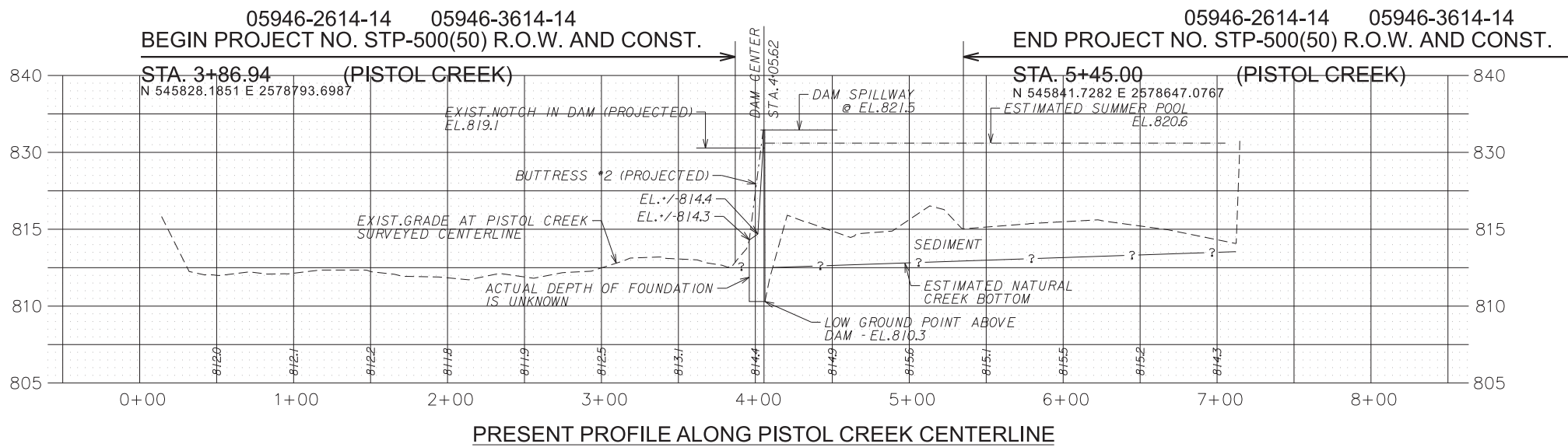
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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION


PROPOSED  
LAYOUT

CONSTRUCTION ACCESS ROAD  
STA.0+00 TO STA.12+73.40  
PISTOL CREEK  
STA.0+00 TO STA.7+34.72  
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-500(50)	NS4D
PS&E	2025	STP-500(50)	NS4C



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02/14/2025

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

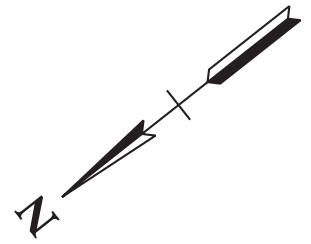
PROFILES

STA. 0+00 TO STA. 7+34.72

SCALE: 1"=50' HORIZ.  
1"=5' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-500(50)	NS5

05946-2614-14 05946-3614-14  
BEGIN PROJECT NO. STP-500(50) R.O.W. AND CONST.  
(PISTOL CREEK)



PISTOL CREEK DRAINAGE BASIN

DRAINAGE DATA FOR PISTOL CREEK DAM  
STATION PISTOL CREEK CL 53+30.6  
DRAINAGE AREA 24951AC, ( ) FLAT; ( ) ROLLING; ( X ) HILLY; ( ) MTNS.  
EXISTING STRUCTURE: CONCRETE DAM  
REMARKS: Q2=2,319CFS

NOTE: PISTOL CREEK DAM DRAINAGE AREA WAS MAPPED USING AN  
USGS 3-METER DIGITAL ELEVATION MAP (DEM)

EXISTING DAM BEING REMOVED

05946-2614-14 05946-3614-14  
END PROJECT NO. STP-500(50) R.O.W. AND CONST.  
STA. 5+45.00 (PISTOL CREEK)  
N 545841.7282 E 2578647.0767

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02/14/2025

COORDINATES ARE NAD/83(1995),  
ARE DATUM ADJUSTED BY THE  
FACTOR OF 1.00009 AND TIED TO  
THE TGRN. ALL ELEVATIONS ARE  
REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

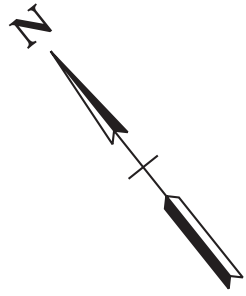
DRAINAGE MAP

SCALE: 1"=2000'

\$\$\$\$SYTIME\$\$\$\$  
\$\$\$\$DGN\$PEC\$\$\$\$



TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-500(50)	NS5A



ACCESS ROAD LIMITS OF CONSTRUCTION  
STA. 0+84.54

ACCESS ROAD LIMITS OF CONSTRUCTION  
STA. 12+73.40

**DRAINAGE DATA FOR 24" CMP**  
**PISTOL CREEK STATION 1+19.20**  
DIRECTION OF FLOW: RIGHT  
  
DRAINAGE AREA 0.457AC, ( ) FLAT; ( ) ROLLING; (X) HILLY; ( ) MTNS.  
PROPOSED STRUCTURE: 24" CMP  
EXISTING STRUCTURE: N/A  
REMARKS: Q2 = 0.82CFS

NOTE: DRAINAGE AREA FOR 24" CMP (OUTFALL 01) WAS MAPPED USING  
AN USGS 1-METER DIGITAL ELEVATION MAP (DEM)

PERMANENT PIPE CROSSING  
24" DIA. CMP, 40' LONG  
MIN. SLOPE 0.5%. 40'  
PROVIDE 24" MIN. COVER.  
SEE TDOT STD. DWGS.  
D-PB-2 AND D-PD-3.

05946-2614-14 05946-3614-14  
BEGIN PROJECT NO. STP-500(50) R.O.W. AND CONST.  
STA. 3+86.94 (PISTOL CREEK)  
N 545828.1851 E 2578793.6987

05946-2614-14 05946-3614-14  
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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

SCALE: 1"=50'

\$\$\$\$SYTIME\$\$\$\$  
\$\$\$\$DGN\$PEC\$\$\$\$

EPSC NOTES

EROSION PREVENTION AND SEDIMENT CONTROL GENERAL NOTES

INSPECTION, MAINTENANCE & REPAIR

- (1) REFER TO THE STORM WATER POLLUTION AND PREVENTION PLAN SHEET SERIES (S-1) FOR SWPPP, PERMITS, AND RECORDS NOTES.

GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

- (2) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS SHALL BE REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFFSITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EPSC SHALL BE REMOVED FROM THE SITE.
- (3) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION. APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED.
- (4) CONTRACTORS SHALL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED, NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE, AND PROPERLY SIGNED. WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS SHALL NOT BE PERMITTED ONSITE UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL REGULATIONS.
- (5) WHEEL WASH WATER SHALL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER SHALL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM.
- (6) IF PORTABLE SANITARY FACILITIES ARE PROVIDED ON CONSTRUCTION SITES, SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY REGULATIONS. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.
- (7) ONLY CONSTRUCTION PRODUCTS NEEDED SHALL BE STORED ONSITE BY THE CONTRACTOR. THE CONTRACTOR SHALL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING SHALL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR'S RESPONSIBLE PARTY SHALL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL.
- (8) WHEN POSSIBLE, ALL PRODUCTS SHALL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFFSITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS SHALL BE FOLLOWED.
- (9) ALL PAINT CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL BE DISPOSED OF ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.
- (10) ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN A MANNER WHICH IS COMPLIANT WITH LOCAL OR STATE REGULATIONS. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES, AND THE INDIVIDUAL DESIGNATED AS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.
- (11) OPEN BURNING IS PROHIBITED UNLESS IT IS SPECIFICALLY ALLOWED BY LAW. IF ALLOWED, NATURAL VEGETATION, TREES, AND UNTREATED LUMBER SHALL BE THE ONLY MATERIALS THAT CAN BE OPEN BURNED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE STATE AND LOCAL PERMITS PRIOR TO ANY BURNING.
- (12) DISPOSAL OF ONSITE VEGETATION AND TREES BY CHIPPING THEM INTO MULCH IS PREFERABLE TO OPEN BURNING. THIS MULCH MAY BE USED AS AN ONSITE SOIL STABILIZATION MEASURE WHERE APPROPRIATE.

- (13) WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR. IMPACTS TO WATERS OF THE STATE/U.S. SHALL BE AVOIDED IF POSSIBLE. IF UNAVOIDABLE, THE CONTRACTOR WILL OBTAIN ANY AND ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO NPDES, AQUATIC RESOURCES ALTERATION PERMIT(S), CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 26A PERMITS TO DISPOSE OF WASTE MATERIALS.

STREAMS, WETLANDS & BUFFER ZONES



- (14) ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., PIER FOOTING, RIP-RAP PLACEMENT, CULVERT/BRIDGE CONSTRUCTION, ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR THE TEMPORARY DIVERSION CHANNELS (EC-STR-31) AND TEMPORARY DIVERSION CULVERTS (EC STR-32) FOR SINGLE BARREL CULVERT CONSTRUCTION. THE DESIGN REQUESTS AN EXCEPTION TO THIS AS THE DAM REMOVAL (AND PARTIAL IMPOUNDED SEDIMENT REMOVAL) WILL NEED TO TAKE PLACE IN THE WET. WORK CANNOT BE SEPARATED FROM FLOWING WATER.

EROSION PREVENTION AND SEDIMENT CONTROL SPECIAL NOTES

- (15) REFER TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN FOR NOTES REGARDING SEASONAL WORK LIMITATIONS OR LIMITATION ON THE TOTAL AREA OF EXPOSED SOILS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-500(50)	NS5
PS&E	2025	STP-500(50)	NS6

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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION




EROSION PREVENTION  
AND SEDIMENT  
CONTROL SPECIAL NOTES



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-500(50)	NS6
PS&E	2025	STP-500(50)	NS7

	TABULATED EPSC QUANTITIES			
	ITEM NO.	DESCRIPTION	UNIT	QUANTITY STP-500(50)
(1)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	715
(1)	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	920
(1)	209-13.04	TURBIDITY CURTAIN ((FLOATING TRUBIDITY CURTAIN BELOW DAM))	L.F.	170
(1)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	330
(2) (1)	709-05.05	MACHINED RIPRAP (CLASS A-3)	TON	60
(3) (1)	740-10.03	GEOTEXTILE (TYPE III) (EROSION CONTROL)	SY	60
(4) (1)	740-11.02	TEMPORARY SEDIMENT TUBE 12IN	L.F.	1500
(5) (1)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	20
(6) (1)	801-03	WATER (SEEDING & SODDING)	M.G.	1
(7) (1)	805-12.08	700 GRAM COIR FIBER EROSION CONTROL BLANKET	SY	1000

- (1) ALL EROSION PREVENTION SEDIMENT CONTROL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER. SEE SUBSECTION 209-07 OF STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
- (2) ITEM 709-05.05 MACHINED RIPRAP (CLASS A-3) IS FOR THE CONSTRUCTION EXIT.
- (3) ITEM 740-10.03 GEOTEXTILE (TYPE III) (EROSION CONTROL) ARE FOR THE WORK PAD AT THE DAM AND CONSTRUCTION EXIT.
- (4) ITEM 740-11.02 TEMPORARY SEDIMENT TUBES ARE TO BE USED AROUND THE TEMPORARY SEDIMENT STORAGE AREA AND ON THE EXPOSED PISTOL CREEK CHANNEL SLOPES DURING GRADING ACTIVITIES TO REDUCE SEDIMENT WASHOFF.
- (5) ITEM 801-01.07 CUSTOM TEMPORARY SEED MIXTURE WITH MULCH, SEE SHEET NS-11 FOR APPLICATIONS RATES. THE COST OF FERTILIZER AND LIME USED IN THE INITIAL SEED BED PREPARATION IS TO BE INCLUDED IN THE COST OF SEEDING. SEE SECTION 801 OF THE TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE.
- (6) ITEM 801-03 INCLUDES 1 THOUSAND GALLONS FOR PLANT ESTABLISHMENT AND 1 THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL .
- (7) ITEM 805-12.08 INCLUDES ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO CONSTRUCT 700 GRAM COIR FIBER EROSION BLANKET SHOWN IN DETAIL D-NSD-33.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
ROLL ** ROLL **	COIR FIBER ROLL	D-NSD-33
	COIR FIBER EROSION CONTROL BLANKET	D-NSD-33
* SF * SF * SF * SF *	SILT FENCE	EC-STR-3B
* SF * SF * SF * SF * SFE	SILT FENCE WITH BACKING	EC-STR-3C
	CONSTRUCTION EXIT	EC-STR-25
TUBE ** TUBE	SEDIMENT TUBE	EC-STR-37
	TURBIDITY CURTAIN	EC-STR-38
* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1

SEAL BY

LUKE C. WILLIAMS  
REGISTERED ENGINEER  
IN AGRICULTURE  
STATE OF TENNESSEE  
No. 17  
GAYLOR, NC

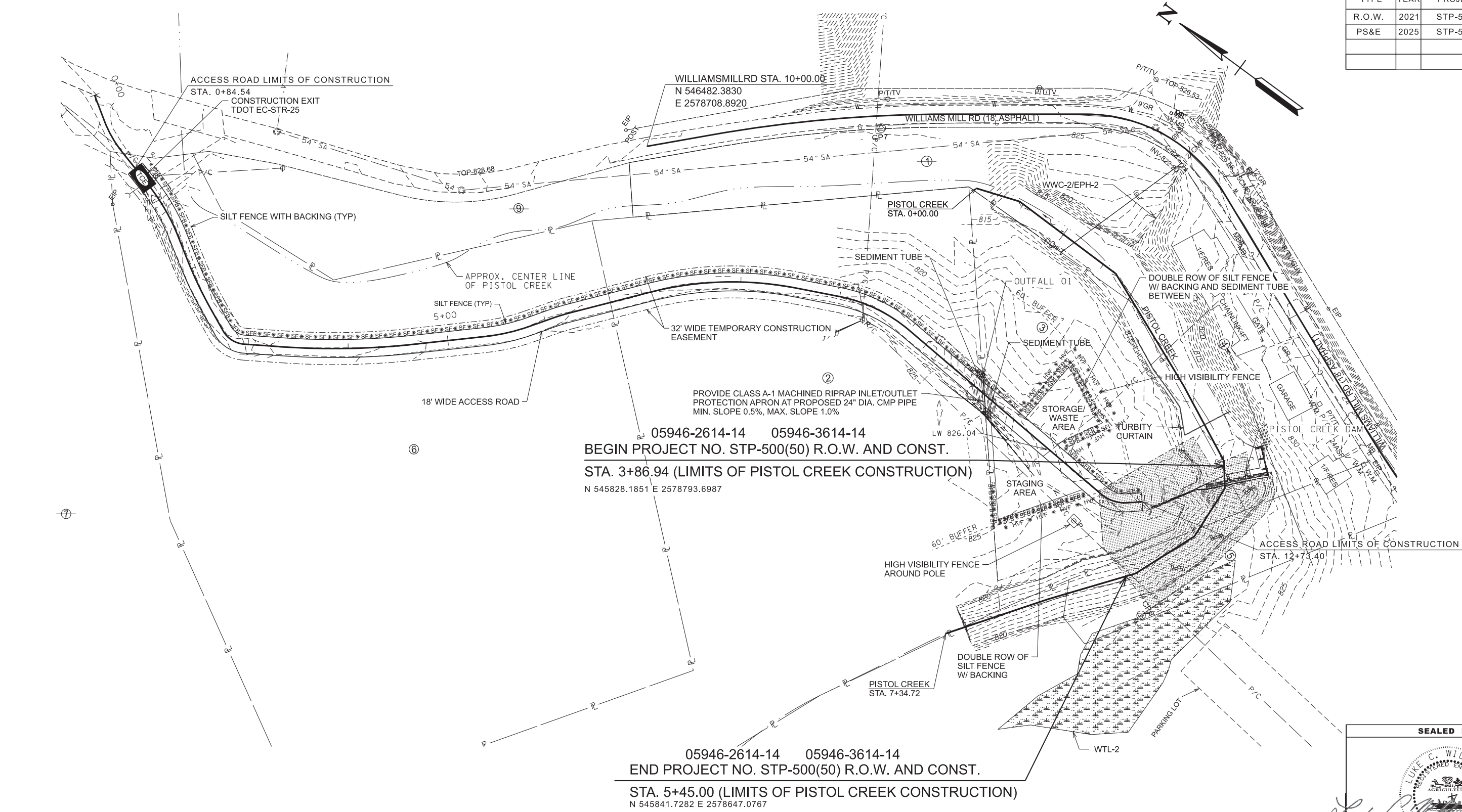
02/14/2025

**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

## EROSION PREVENTION AND SEDIMENT CONTROL LEGEND AND TABULATION

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-500(50)	NS7
PS&E	2025	STP-500(50)	NS8



OUTFALL	AREA (ac.)	AVG. SLOPE (ft/ft)
1	0.457	0.097

STAGE I EPSC SEQUENCE


1. INSTALL CULVERT CROSSING IN THE DRY
2. PLACE SEDIMENT TUBE ABOVE PIPE INLET AND OUTLET
3. INSTALL HIGH VISIBILITY FENCING
4. INSTALL TURBIDITY CURTAIN
5. INSTALL PERIMETER SILT FENCE
6. CONTRACTOR IS TO CLEAR AND GRUB AREAS WITHIN THE CONSTRUCTION EASEMENT BOUNDARY INDICATED ON THE PLAN.

NOTE:  
SEDIMENT TUBES ARE TO BE INSTALLED AT THE END OF EACH WORK DAY ON THE DISTURBED SLOPES.

CONTOUR LEGEND

- 800 --- EXISTING MAJOR CONTOUR
- --- EXISTING MINOR CONTOUR

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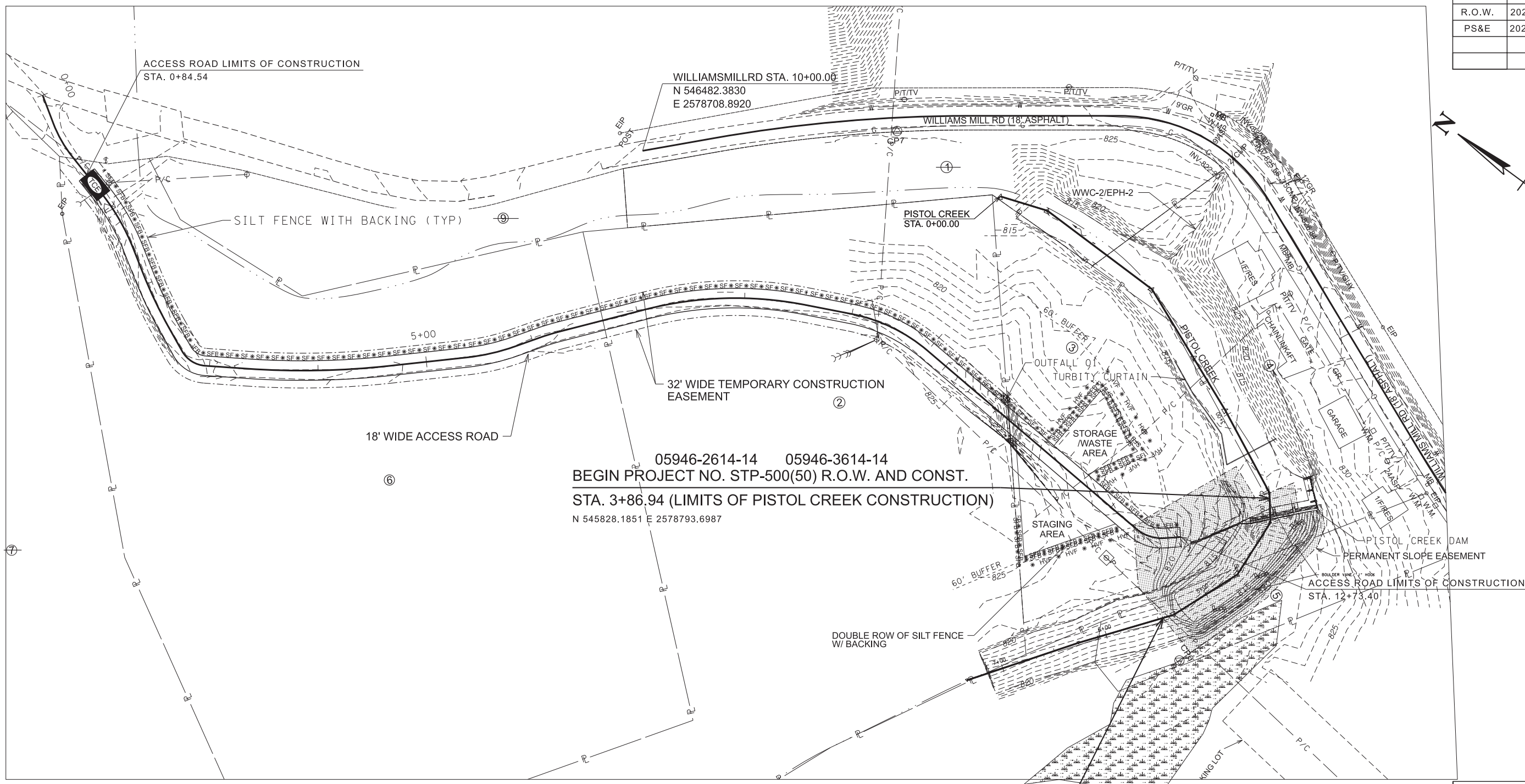
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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

EROSION  
PREVENTION &  
SEDIMENT CONTROL  
(EPSC) PLANS  
3+86.94 TO STA. 5+45.00  
SCALE: 1"=50'



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-500(50)	NS8
PS&E	2025	STP-500(50)	NS9



OUTFALL	AREA (ac.)	AVG. SLOPE (ft/ft)
1	0.457	0.097

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NOTE:  
SEDIMENT TUBES ARE TO BE INSTALLED AT THE END OF EACH WORK DAY ON THE  
DISTURBED SLOPES.

- STAGE II EPSC SEQUENCE
- CONTRACTOR IS TO PERFORM DAM REMOVAL PHASES 1-4 AND CHANNEL GRADING.
  - INSTALL BOULDER VANES.

PROPOSED CONTOURS  
800

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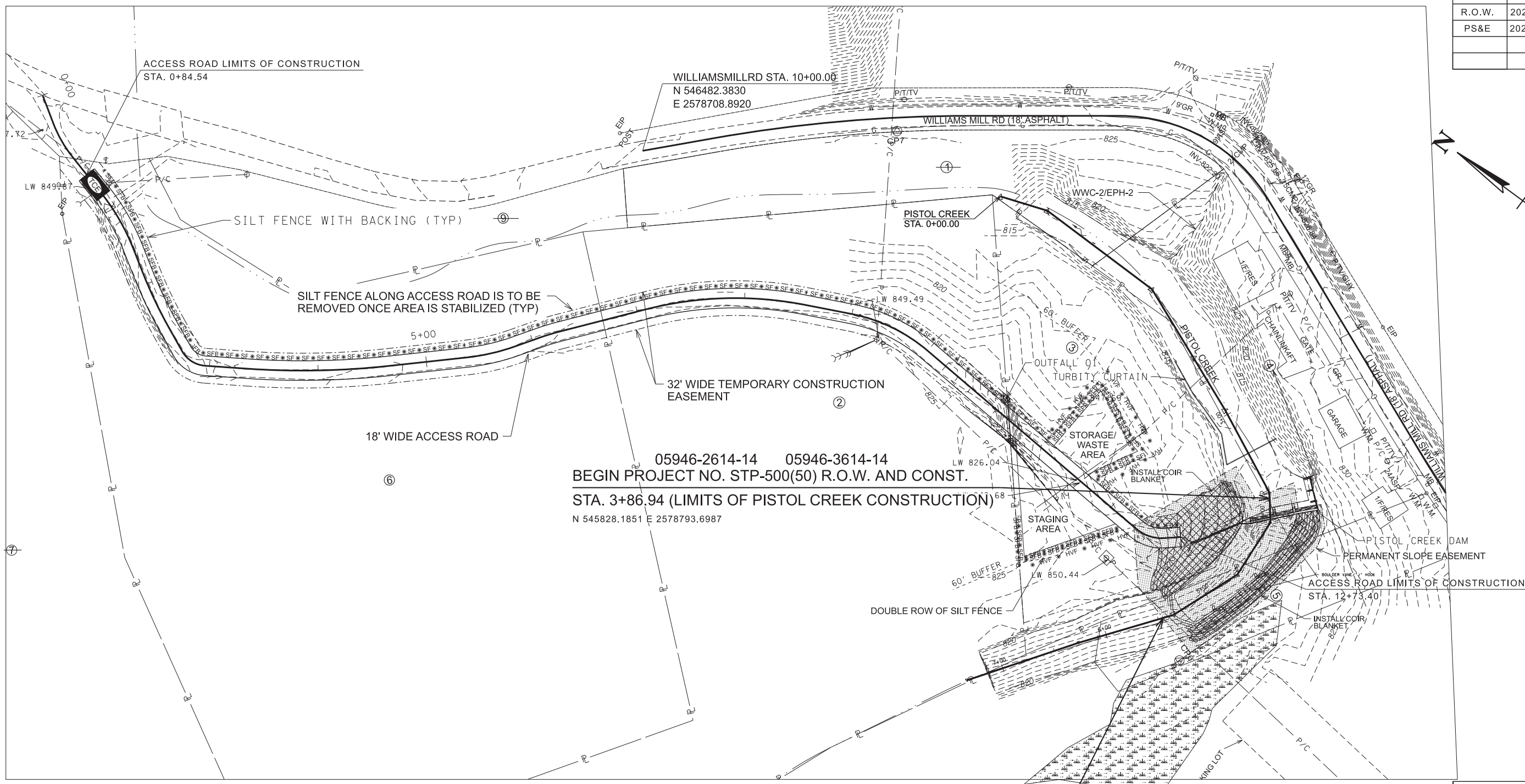
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DEPARTMENT OF TRANSPORTATION

EROSION  
PREVENTION &  
SEDIMENT CONTROL  
(EPSC) PLANS  
3+86.94 TO STA. 5+45.00  
SCALE: 1"=50'

EROSION PREVENTION & SEDIMENT CONTROL STAGE II PLAN

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-500(50)	NS8
PS&E	2025	STP-500(50)	NS10



OUTFALL	AREA (ac.)	AVG. SLOPE (ft/ft)
1	0.457	0.097

05946-2614-14 05946-3614-14  
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STA. 3+86.94 (LIMITS OF PISTOL CREEK CONSTRUCTION)  
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- STAGE III EPSC SEQUENCE**
1. INSTALL PERMANENT GRASS SEED MIX AND COIR BLANKETS ON DISTURBED AREAS.
  2. EPSC MEASURES CAN BE REMOVED ONCE THE AREA HAS BEEN PERMANENTLY STABILIZED AND PROJECT IS READY FOR NOTICE OF TERMINATION.

PROPOSED CONTOURS  
800

**SEALED BY**

*Lukey C. Williams*

02/14/2025

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**STATE OF TENNESSEE**  
**DEPARTMENT OF TRANSPORTATION**

**EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS**  
3+86.94 TO STA. 5+45.00  
SCALE: 1"=50'

EROSION PREVENTION & SEDIMENT CONTROL STAGE III PLAN



TEMPORARY SEED MIX

THE CONTRACTOR SHALL UTILIZE THE FOLLOWING SEED/FERTILIZER MIX IN SEEDING ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS:

SUMMER MIX (APRIL 15 - AUGUST 15)  
GERMAN MILLET     SETARIA ITALICA     20 LBS / ACRE  
BROWNTOP MILLET     UROCHLOA RAMOSA     20 LBS / ACRE

WINTER MIX (AUGUST 15 - APRIL 15)  
RYE GRAIN     SECALE CEREALE     100 LBS / ACRE  
WHEAT     TRITICUM AESTIVUM     20 LBS / ACRE

FERTILIZER     750 LBS / ACRE  
LIMESTONE     2000 LBS / ACRE

FERTILIZER SHALL BE 10-10-10 ANALYSIS. UPON SOIL ANALYSIS A DIFFERENT RATIO OF FERTILIZER MAY BE USED.

Permanent Seed Mix		
Common Name	Scientific Name	oz pls/pound
Virginia Wild Rye	Elymus Virginicus	2.4
Barnyard Grass	Echinochloa Muricata	0.5
Upland Bentgrass	Agrostis Perennans	0.02
Big Bluestem	Andropogon Gerardii	1.4
Deer Tongue Grass	Panicum clandestinum	1.4
Fall Panicum	Panicum anceps	1.4
Switchgrass	Panicum Virgatum	2.4
Fox Sedge	Carex Vulpinoidea	0.48
Wild Senna	Cassia Marilandica	1
Illinois Bundleflower	Desmanthus Illinoisensis	0.5
Flase Sunflower	Helioopsis Helianthoides	0.6
Spiked Blazing Star	Liatris Spicata	0.5
Bergamot	Mnnarda Fictulnca	0.1
Cup Plant	Silphium Perfoliatum	1
Showy Tickseed	Bidens Aristosa	0.6
Joe-Pye Weed	Eupatorium Fistulosum	0.2
Sneezeweed	Helenium Autumnale	0.2
Yellow Wingstem	Verbesina Alternifolia	0.5
Iron Weed	Veronia Altissima	0.4
Narrow-Leaved Sunflower	Helianthus Angustifolius	0.4

BASED ON ROUNDSTONE NATIVE SEED MIX 168- SOUTHERN RIPARAIN BUFFER MIX

SEEDING RATE = 10 PLS LB / AC.  
SOIL AMENDMENTS: 0.3 TON / AC FERTILIZER;  
0.5 TON / AC LIME;  
DO NOT APPLY AMMENDMENTS TO STREAM BANKS

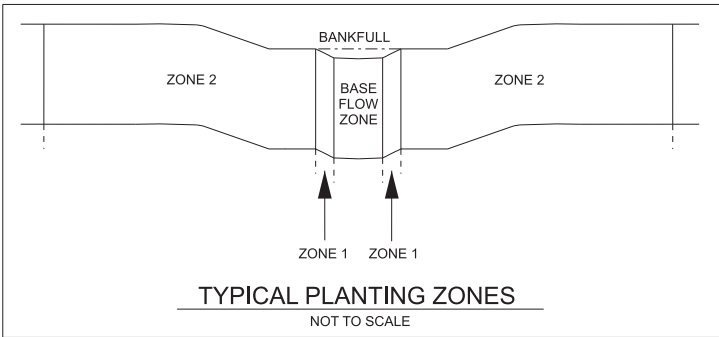
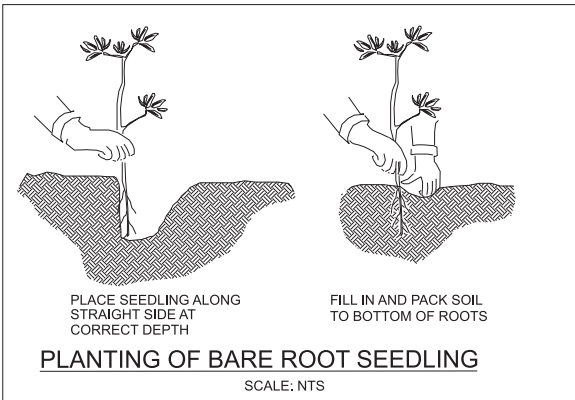
FERTILIZER SHALL BE 20-10-10 ANALYSIS. BASED UPON THE SOIL ANALYSIS REQUIRED AS PART OF THE CGP PERMIT, A DIFFERENT RATIO MAY BE USED.

SEEBED PREPERATION

THE SEEDBED SHALL BE COMPRISED OF LOOSE SOIL AND NOT COMPACTED. THIS MAY REQUIRE LIGHT MECHANICAL LOOSENING OF THE SOIL. SOIL AMENDMENTS SHOULD FOLLOW THE FERTILIZER AND LIMING DESCRIPTION IN THE ABOVE SECTIONS. FOLLOWING SEEDING, MULCHING SHALL FOLLOW THE BELOW APPLICATION METHODS AND AMOUNTS.

MULCHING

SEEDED AREAS ARE TO BE PROTECTED BY SPREADING STRAW MULCH UNIFORMLY TO FORM A CONTINUOUS BLANKET (75% COVERAGE = 2 TONS/ACRE) OVER SEEDED AREAS. CONTRACTOR MAY PROPOSE ALTERNATE METHODS OF SEED, FERTILIZER AND LIMING (HYDRO-SEEDING) UPON SUBMISSION TO THE PERSON IN CHARGE OF NATURAL CHANNEL DESIGN OVERSIGHT OF CALCULATIONS SHOWING THE EQUIVALENCY OF THE PROPOSED METHOD.



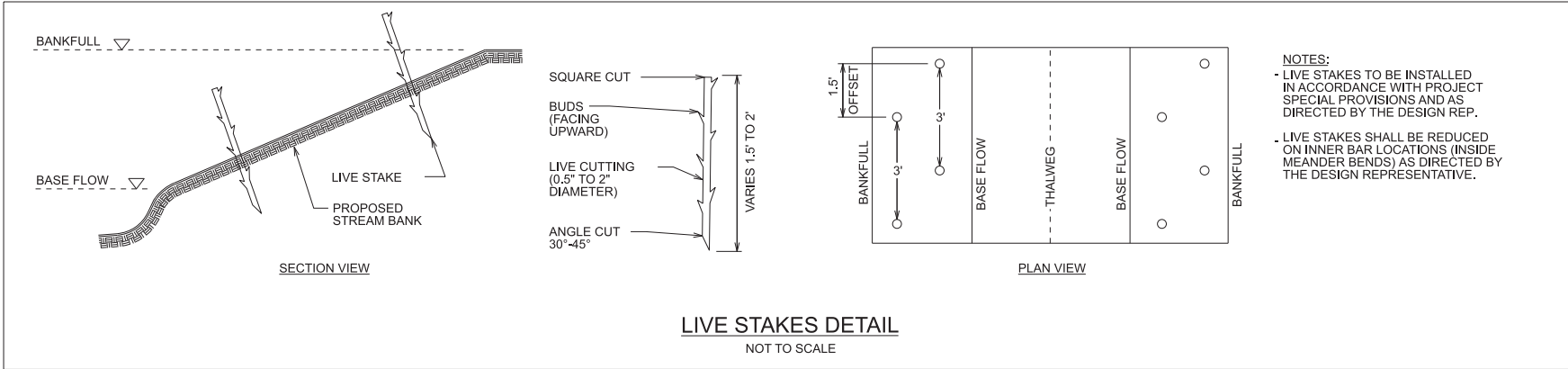
ZONE 1: LOWER RIPARIAN STREAM (3,044 SQ. FT. / 0.070 ACRE)										
ZONE 1	COMMON NAME	SCIENTIFIC NAME	STRATUM	INDICATOR STATUS	PLANTING TYPE	SPACING (FT)	STEMS/ACRE	AREA (AC.)	COMPOSITION (%)	TOTAL STEM
	SANDBAR WILLOW	<i>SALIX INTERIOR</i>	MIDSTORY	FACW	LIVE STAKE	3x1	14,533	0.07	25	254
	SILKY DOGWOOD	<i>CORNUS AMOMUM</i>	UNDERSTORY	FACW	LIVE STAKE	3x1	14,533	0.07	25	254
	HAZEL ALDER	<i>ALNUS SERRULATA</i>	UNDERSTORY	FACW	LIVE STAKE	3x1	14,533	0.07	25	254
	ELDERBERRY	<i>SAMBUCUS CANADENSIS</i>	UNDERSTORY	FACW	LIVE STAKE	3x1	14,533	0.07	25	254
TOTALS:									100	1017

- 1 COMPOSITION PERCENTAGE IS APPROXIMATE, BUT NO SINGLE LIVE STAKING SPECIES SHALL COMPOSE 40% OF THE TOTAL NUMBER OF LIVE STAKES TO BE INTSALLED.  
2 LIVE STAKES: 1.5' TO 2' LENGTHS, 1/2" TO 2" DIAMETER. THE TWO STAGGERED ROWS SHALL BE 1' APART AND THE LIVE STAKES SHALL BE SPACED 3' APART IN THE RIFFLES AND 4' APART IN THE INNER BAR LOCATIONS. RANDOM SPECII

ZONE 2: UPPER STREAM BANK (7,814 SQ. FT. / 0.179 ACRE)										
ZONE 2	COMMON NAME	SCIENTIFIC NAME	STRATUM	INDICATOR STATUS	PLANTING TYPE	SPACING (FT)	STEMS/ACRE	AREA (AC.)	COMPOSITION (%)	TOTAL STEM
	AMERICAN ELM	<i>ULMUS AMERICANA</i>	OVERSTORY	FACW	BARE ROOT	8x8	680	0.179	15	18
	AMERICAN HORNBEAM	<i>CARPINUS CAROLINIANA</i>	UNDERSTORY	FAC	BARE ROOT	8x8	680	0.179	15	18
	PERSIMMION	<i>DIOSPYROS VIRGINIANA</i>	MIDSTORY	FAC	BARE ROOT	8x8	680	0.179	10	12
	BLACK WILLOW	<i>SALIX NIGRA</i>	OVERSTORY	OBL	BARE ROOT	8x8	680	0.179	10	12
	SYCAMORE	<i>PLATANUS OCCIDENTALIS</i>	OVERSTORY	FACW	BARE ROOT	8x8	680	0.179	10	12
	TULIP POPLAR	<i>LIRIODENDRON TULIPIFERA</i>	OVERSTORY	FACU	BARE ROOT	8x8	680	0.179	10	12
	BOX ELDER	<i>ACER NEGUNDO</i>	OVERSTORY	FAC	BARE ROOT	8x8	680	0.179	10	12
	SUGARBERRY	<i>CELTIS LAEVIGATA</i>	MIDSTORY	FACW	BARE ROOT	8x8	680	0.179	10	12
	CHERRYBARK OAK	<i>QUERCUS PAGODA</i>	OVERSTORY	FACW	BARE ROOT	8x8	680	0.179	10	12
	TOTALS:							100		122

- 1 BARE ROOT MATERIAL SHALL BE 12" - 18". RANDOM SPECIES PLACEMENT  
2 SEE BARE ROOT DETAIL BELOW.

NOTE: INSTALLATION OF LIVE STAKES AND BARE ROOT TREES SHALL OCCUR DURING THE DORMANT SESON. THE DORMANT SEASON SHALL BE DESIGNED AS A PERIOD FORM NOVEMBER 6 TO MARCH 24.



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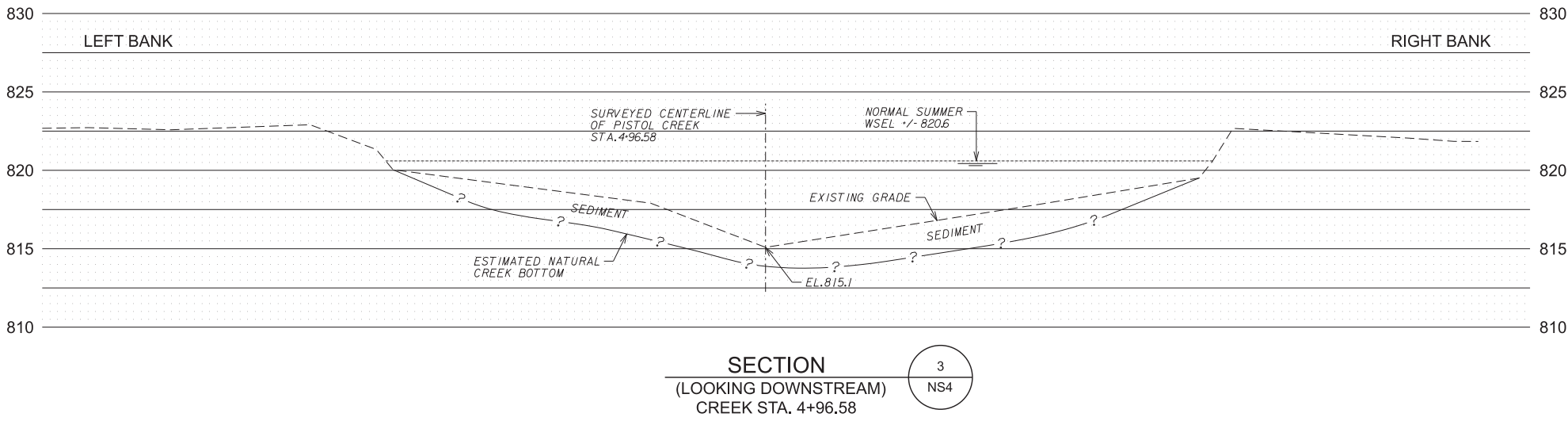
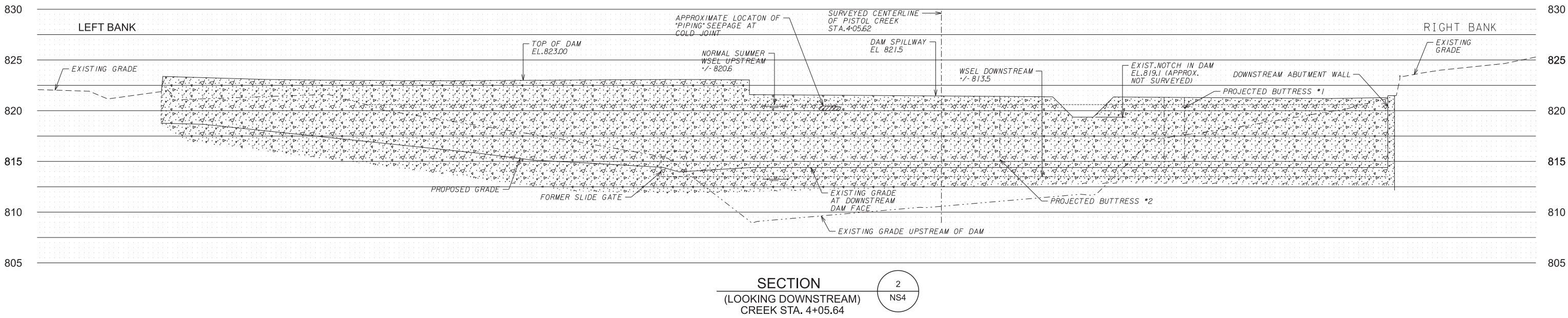
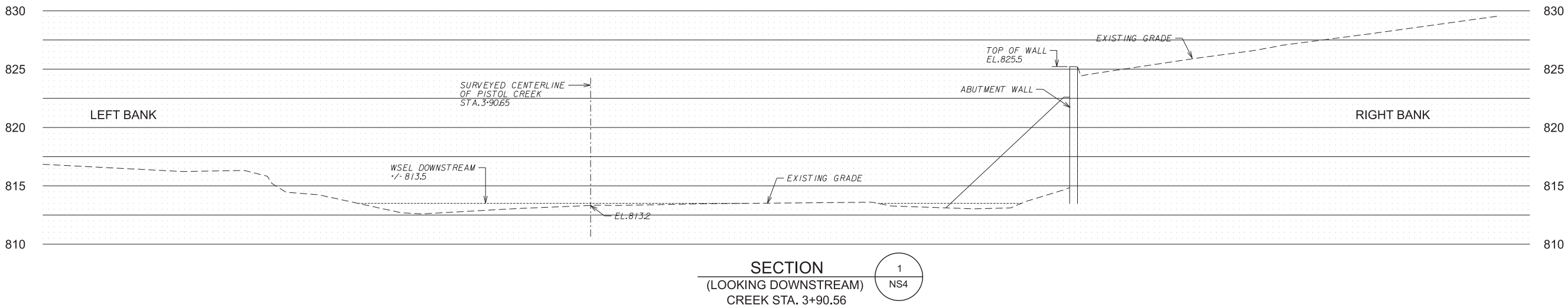
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

PLANTING PLAN  
NOTES AND  
DETAILS





TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-500(50)	NS11
PS&E	2025	STP-500(50)	NS13



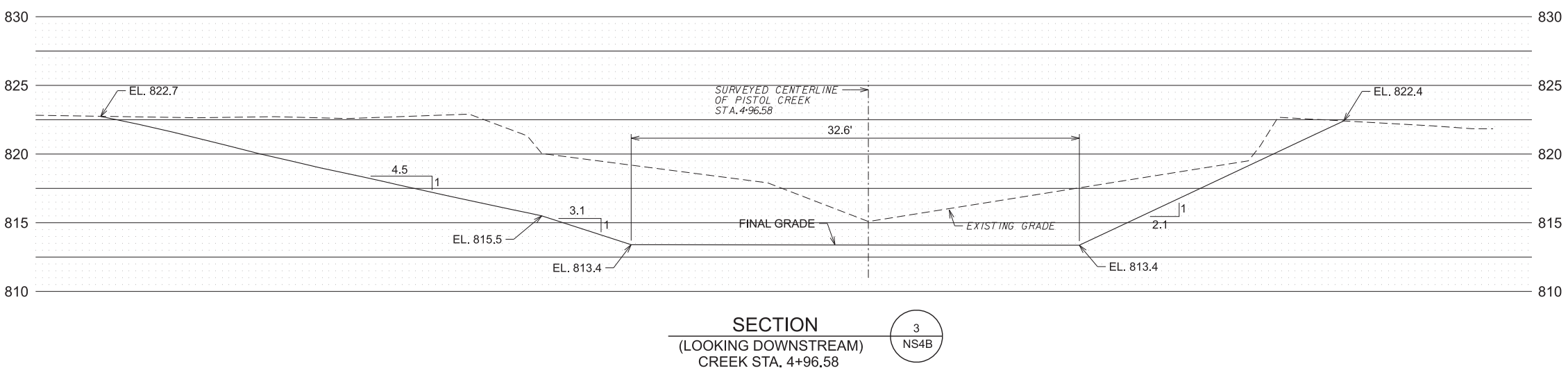
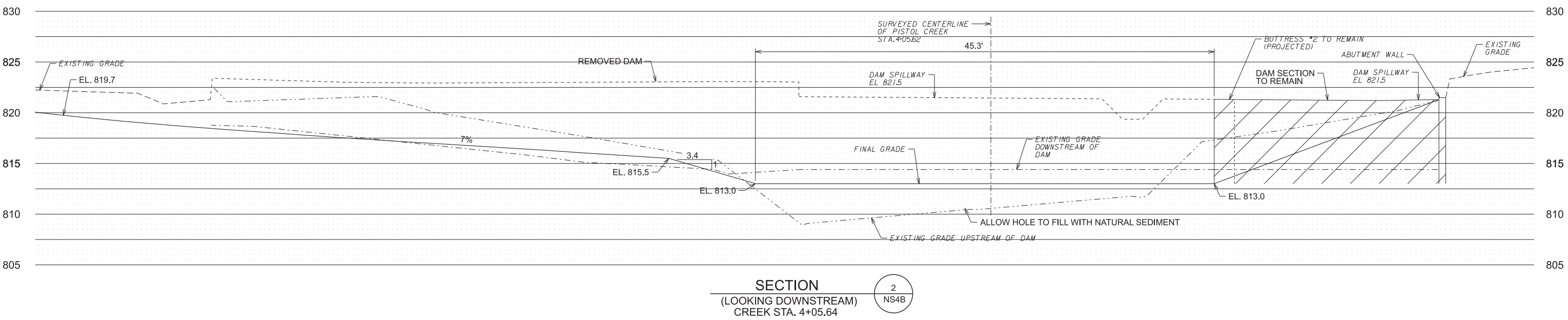
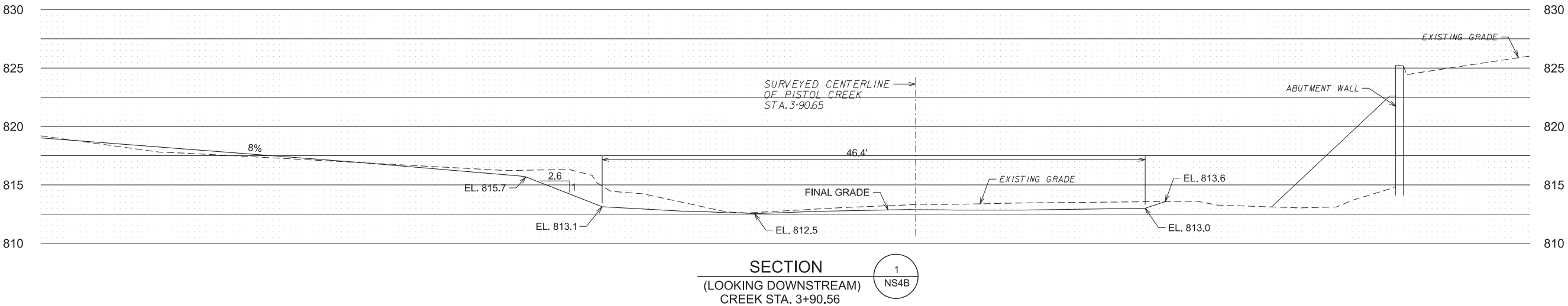
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EXISTING CREEK  
SECTIONS

SCALE: 1"=5'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2021	STP-500(50)	NS12
PS&E	2025	STP-500(50)	NS14



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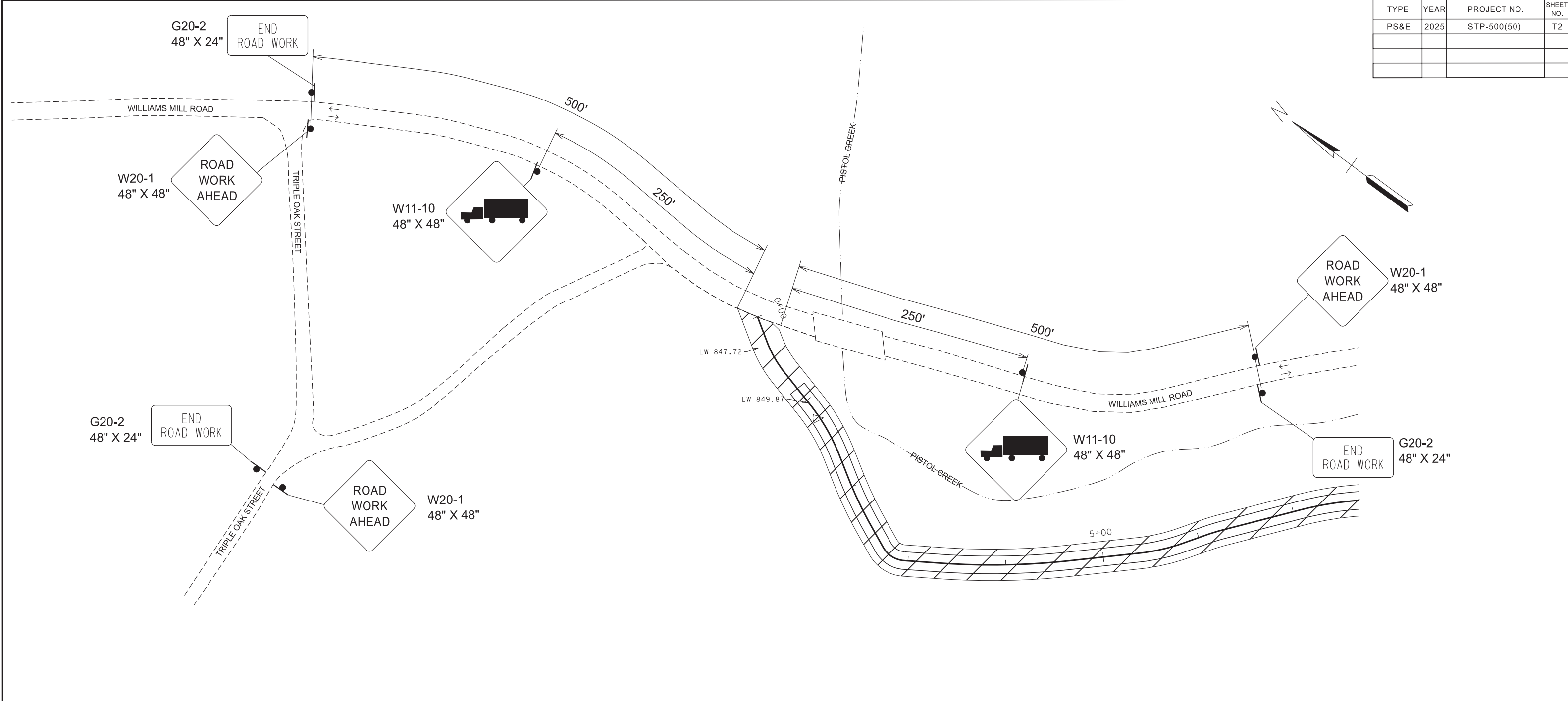
FINAL CREEK  
SECTIONS

SCALE: 1"=5'

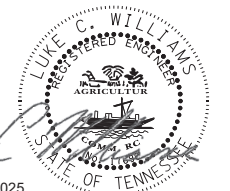




TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	STP-500(50)	T2



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TRAFFIC  
CONTROL PLANS  
SCALE: 1"= 50'

\$\$\$\$SYTIME\$\$\$\$  
\$\$\$\$DGN\$PEC\$\$\$\$