#### 11-17-2023 LETTING ITEM 053

## **INDEX OF SHEETS**

COVER SHEET

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- GENERAL NOTES & LEGEND
- SUMMARY OF QUANTITIES
- SCHEDULE OF QUANTITIES
- SLOPE STABILIZATION LOCATION MAP
- 6-7 SLOPE STABILIZATION PLAN LAYOUT
- 8-10 EROSION CONTROL PLANS
- 11-19 SLOPE STABILIZATION DETAILS

## **HIGHWAY STANDARDS**

280001-07

701001-02 701006-05 701901-08



ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

PROJECT ENGINEER: NICOLE FAYANT PHONE: (309) 671-3454 PROJECT MANAGER: NICOLE FAYANT PHONE: (309) 671-3454

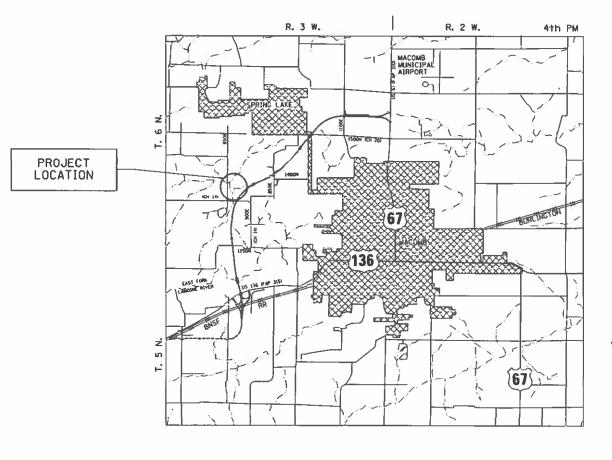
**CONTRACT NO. 68D36** 

## STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PROPOSED**

# **HIGHWAY PLANS**

FAP ROUTE 407 (IL 336 /US 67 /IL 110) SECTION (55-3)SCR

> **SLOPE STABILIZATION** McDONOUGH COUNTY C-94-002-17





F.A.P. RTE. 407 SECTION McDONOUGH 19 1
ILLINOIS CONTRACT NO. 68036 (55-3)SCR

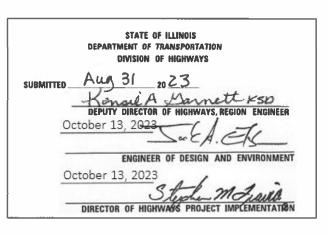
## D-94-001-17



## Hutchison Engineering, Inc.

SINCE 1945

JACKSONVILLE • SHOREWOOD • PEORIA



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

#### .GENERAL NOTES

SOIL REPORT AVAILABILITY
THE SOILS REPORT AND ALL SOILS DATA COLLECTED AND PROCESSED FOR THE SOILS REPORT MADE IN CONJUNCTION WITH THE DESIGN OF THIS IMPROVEMENT IS ON FILE AT THE DISTRICT OFFICE WHERE IT IS AVAILABLE FOR INSPECTION BY CONTRACTORS OR PROSPECTIVE BIDDERS, BY SUBMITTING A BID. THE CONTRACTOR ACKNOWLEDGES THAT THE SOILS REPORT HAS BEEN MADE AVAILABLE AND IS AWARE OF THE REPORT CONTENTS AND APPENDICES.

AVAILABILITY OF ELECTRONIC FILES
MICROSTATION AND GEOPAK FILES OF THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR. IF THERE IS A CONFLICT BETWEEN THE ELECTRONIC FILES AND THE PRINTED CONTRACT PLANS AND DOCUMENTS, THE PRINTED CONTRACT PLANS AND DOCUMENTS SHALL TAKE PRECEDENCE OVER THE ELECTRONIC FILES. THE CONTRACTOR SHALL ACCEPT ALL RISK ASSOCIATED WITH USING THE ELECTRONIC FILES AND SHALL HOLD THE DEPARTMENT HARMLESS FOR ANY ERRORS OR OMISSIONS IN THE ELECTRONIC FILES AND THE DATA CONTAINED THEREIN. ERRORS OR DELAYS RESULTING FROM THE USE OF THE ELECTRONIC FILES BY THE CONTRACTOR SHALL NOT RESULT IN AN EXTENSION OF TIME FOR ANY INTERIM OR FINAL COMPLETION DATE OR SHALL NOT BE CONSIDERED CAUSE FOR ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOT USE, SHARE, OR DISTRIBUTE THESE ELECTRONIC FILES EXCEPT FOR THE PURPOSE OF CONSTRUCTING THIS CONTRACT. ANY CLAIMS BY THIRD PARTIES DUE TO USE OR ERRORS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, THE CONTRACTOR SHALL INCLUDE THIS DISCLAIMER WITH THE TRANSFER OF THESE ELECTRONIC FILES TO ANY OTHER PARTIES AND SHALL INCLUDE APPROPRIATE LANGUAGE BINDING THEM TO SIMILAR RESPONSIBILITIES.

<u>UTILITIES - LOCATION/INFORMATION ON PLANS</u>
THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

TREE REMOVAL - UTILITY RELOCATION
TREE REMOVAL MAY BE NECESSARY PRIOR TO UTILITY COMPANIES BEING ABLE TO RELOCATE THEIR FACILITIES OUTSIDE THE CONSTRUCTION LIMITS. THE CONTRACTOR SHOULD COORDINATE ANY CONTRACT TREE REMOVAL ACTIVITIES WITH THE UTILITY COMPANIES TO ELIMINATE CONFLICTS AND POTENTIAL DELAYS CAUSED BY UTILITY TREE REMOVAL ACTIVITIES OR INCOMPLETE UTILITY RELOCATIONS.

<u>PLAN ELEVATIONS - U.S.G.S. MEAN SEA LEVEL DATUM</u> ALL ELEVATIONS SHOWN ON THE PLANS ARE ESTABLISHED FROM U.S.G.S. MEAN SEA LEVEL DATUM.

TREE REMOVAL
THE DISTRICT FOUR TREE COMMITTEE SHOULD BE CONTACTED AND PRIOR APPROVAL OBTAINED FOR ANY TREE REMOVAL BEYOND THE LIMITS/LOCATIONS INCLUDED IN THE PLANS.

#### **ENVIRONMENTAL REVIEWS**

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS WILL NEED TO BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (CULTURAL AND NATURAL RESOURCES REVIEW OF BORROW AREAS)
- BDE FORM 2290 (WASTE/USE AREA REVIEW)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- BORROW AREA ENTRY AGREEMENT FORM D4 PIO101

PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED WASTE SITE ENVIRONMENTAL CLEARANCES AND FIVE WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES.

#### JOB-SPECIFIC NOTES

TREES AND BRUSH TO BE REMOVED (BUT NOT LIMITED TO) AUTUMN OLIVE RUSSIAN OLIVE OSAGE ORANGE HONEYSUCKLE (SP) BLACK LOCUST HONEY LOCUST MULTIFLORA ROSE RASPBERRY CANES COTTON WOOD BOX ELDER CHERRY (SP)

SMALL NATIVE SAPLINGS AT THE DIRECTION OF THE ENGINEER

PLANTS TO BE SAVED IDOT RESERVES THE RIGHT TO ORDER SAVED ON SITE: HOP HORNBEAM/IRONWOOD REDBUD NATIVE DAKS LARGE SAVANNA TYPE OAKS NATIVE SHRUBS SUCH AS VIBURNUM AND AMERICAN FILBERT AREAS THAT WERE NOT HEAVILY DISTURBED FROM GRAZING OR FARMING PRACTICES PATCHES OF MAYAPPLES, BLOOD ROOT, TRILLIUM, DUTCHMEN'S BRITCHES, ETC

WHEN AREAS ARE CLEARED OF UNWANTED BRUSH AND SMALL TREES, THE AREA MAY BE SUBJECT TO EROSION FROM WIND AND RAIN. THESE BARE AREAS SHALL BE TEMP SEEDED WITHIN 24 HOURS OF BRUSH REMOVAL AND STUMP TREATMENT.

IN STEEP AREAS, HEAVY DUTY EROSION CONTROL BLANKET SHALL BE APPLIED WITH THE PERMANENT SEED MATRIX.

AREAS OF EXTENSIVE BRUSH REMOVAL MAY BE TREATED/SEEDED WITH TEMPORARY SEEDING PRIOR TO BRUSH REMOVAL OPERATIONS SO THAT THE SEED IS WORKED INTO THE SOIL AND READY TO GERMINATE.

SEVERAL OF THE SITES HAVE STEEP RAVINES WHERE TEMPORARY/PERMANENT DITCH CHECKS SHALL BE APPLIED AS PER PLAN AND AT THE DIRECTION OF THE ENGINEER.

THE CONTRACTOR SHALL UTILIZE, US ROUTE 67, 1500N (CH 20), AND TOWNSHIP ROAD 850E AS THE ONLY TRUCK ROUTE FOR HAULING RIPRAP AND OTHER MATERIALS TO THE JOB SITE.

#### COMMITMENTS

THE ABOVE REFERENCED PROJECT IS LOCATED IN EMMET TOWNSHIP IN MCDONOUGH COUNTY. PROPOSED ACCESS TO THE PROJECT IS VIA TR 850. EMMET TOWNSHIP WILL WAVE THE 8 TON WEIGHT LIMIT RESTRICTION ON TR 850 FOR THE PURPOSE OF CONSTRUCTION OF THE ABOVE REFERENCE PROJECT.

#### LANDSCAPING LEGEND

SEEDING, CLASS 2 WITH MULCH, METHOD 2

TEMPORARY EROSION CONTROL SEEDING



CONTROL BLANKET

SEEDING, CLASS 4B



PERIMETER EROSION BARRIER TEMPORARY DITCH CHECK



INLET & PIPE PROTECTION

SCALE: N/A

# CONSTR. CODE 100% STATE

CODE			TOTAL	ROADWAY 0020
NO.	ITEM	UNIT	QUANTITY	RURAL
20100500	TREE REMOVAL, ACRES	ACRES	2.5	2.5
20300100	CHANNEL EXCAVATION	CU YD	90	90
25000200	SEEDING, CLASS 2	ACRE	2.00	2.00
25000314	SEEDING, CLASS 4B	ACRE	1.50	1.50
25100115	MULCH, METHOD 2	ACRE	2.00	2.00
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	2299	2299
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	670	670
28000305	TEMPORARY DITCH CHECKS	FOOT	108	108
28000400	PERIMETER EROSION BARRIER	FOOT	1901	1901
28000500	INLET AND PIPE PROTECTION	EACH	2	2
28100209	STONE RIPRAP, CLASS A5	TON	1877	1877
5421C018	PIPE CULVERTS, CLASS C, TYPE 1 18" (TEMPORARY)	FOOT	100	100
67100100	MOBILIZATION	LSUM	1	1
Z0015500	DEBRIS REMOVAL	LSUM	1	1
X4023000	TEMPORARY ACCESS (ROAD)	EACH	2	2

<sup>\*</sup> SEE SPECIAL PROVISIONS

FILE NAME =	USER NAME = Elias.Elderzi	DESIGNED - JRB	REVISED -		FAP ROUTE 407 (IL 336 /IL 110)	F.A.P. SECTION	COUNTY TOTAL SHEET
D468D36-sht-S0001.dgn		DRAWN - TJD	REVISED -	STATE OF ILLINOIS	· · · · · · · · · · · · · · · · · · ·	407 (55-3)SCR	McDONOUGH 19 3
	PLOT SCALE = 100.1392 '/ in.	CHECKED - JRB	REVISED -	DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES		CONTRACT NO. 68D36
Default	PLOT DATE = 5/11/2023	DATE - 2/28/17	REVISED -		SCALE: N/A SHEET 1 OF 1 SHEETS STA.N/A TO STA.N/A	ILLIN	DIS FED. AID PROJECT

## EARTHWORK

	20300100	5404447104 TO DE		BALANCE WASTE (+) OR SHORTAGE (-)		
LOCATION	CHANNEL EXCAVATION	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE •	EMBANKMENT			
	CU YD					
REACH 6	86.5	69.2	69.2	0.0		
TOTAL	86.5	69. 2	69.2	0.0		
USE	90	70	70	0		

SHRINKAGE FACTOR = 20%

## SEEDING

	25000200	25000314	25100115		
LOCATION	SEEDING. CLASS 2	SEEDING. CLASS 4B	MULCH, METHOD 2		
	ACRE				
REACH 1 & ENTRANCE AREA	0.99	0.36	0.99		
REACH 2		0.30			
REACH 6 & ENTRANCE AREA	0.99	0.24	0.99		
REACH 7		0.43			
TOTAL	1. 98	1. 33	1. 98		
USE	2.00	1.50	2.00		

## EROSION CONTROL ITEMS

	25100635	28000250	28000305	28000400	28000500
LOCATION	HEAVY DUTY EROSION CONTROL BLANKET	TEMPURARY ERUSION   TEMPURARY   EROS		PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION
	SQ YD	POUND	F00	Т	EACH
REACH 1	963. 2	270	53.6	1.040	1
REACH 2	398. 2	60	55.6	1,040	1
REACH 6	576.4	246	53.6	861	1
REACH 7	360.6	86	53.6	001	1
TOTAL	2, 298. 4	662	107. 2	1,901	2
USE	2, 299	670	108	1,901	2

## STONE RIPRAP, CLASS A5

			28100209						
LOCATION	BANK SIDE	PROTECTION LENGTH	STREAM TOE   KE		LENGTH STREAM TOE KEY BARBS MISCELLANED		ESTIMATED MISCELLANEOUS PROTECTION	TOTAL	
		F00T			TON				
REACH 1	RT	500	260	80		34	374		
REACH 2	LT	350			450	45	495		
REACH 6	RT	350	182	30	186	40	438		
REACH 7	LT	400	208	10	300	52	570		
TOTAL	•	1,600					1.877		

## ENTRANCES

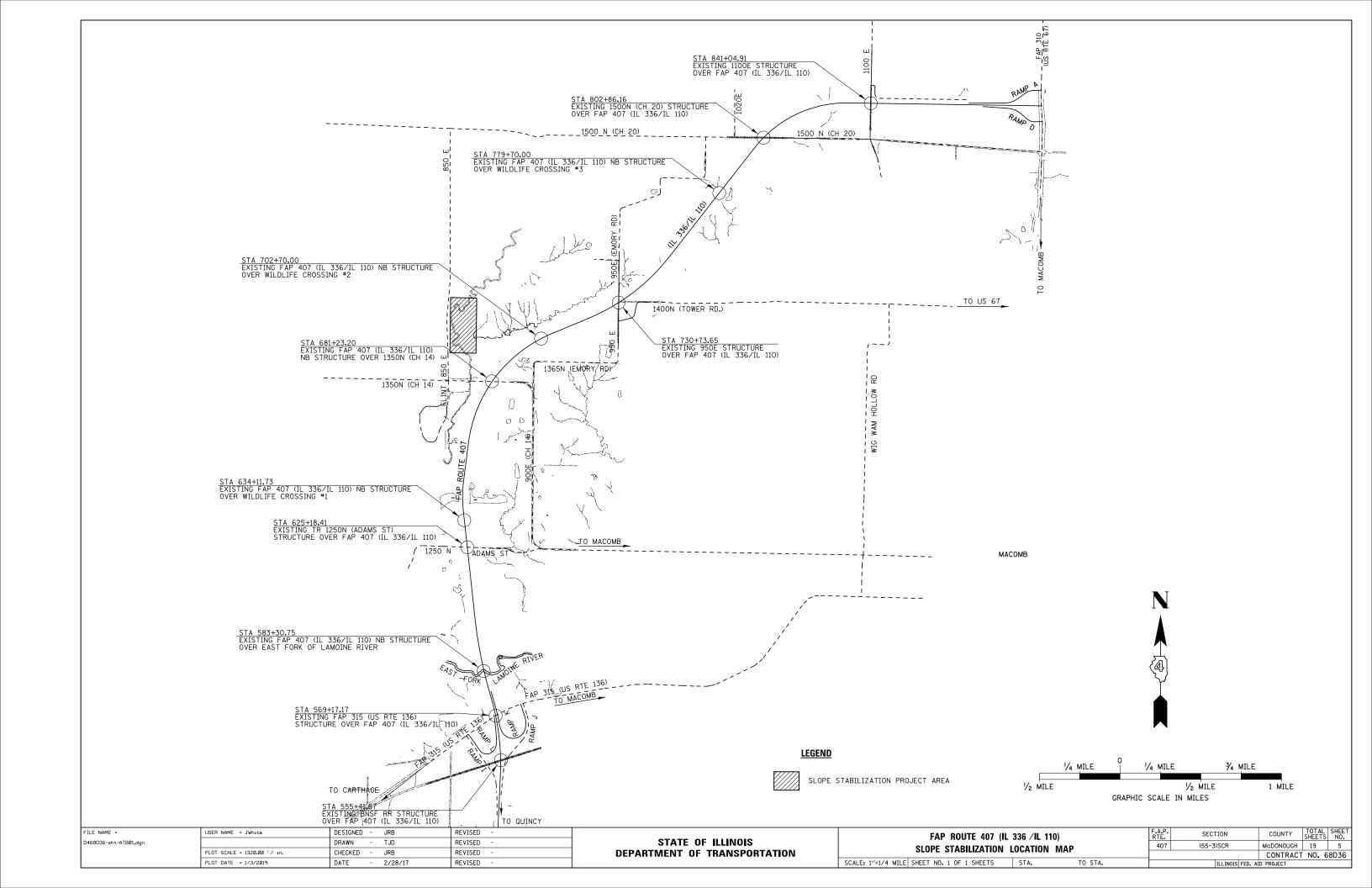
	LITTIMITOLO	
	5421C018	X4023000
LOCATION	PIPE CULVERTS, CLASS C. TYPE 1 18" (TEMPORARY)	TEMPORARY ACCESS (ROAD)
	FOOT	EACH
CONSTRUCTION ENTRANCE REACH 1 & REACH 2	50	1
CONSTRUCTION ENTRANCE REACH 6 & REACH 7	50	1
TOTAL	100	2
USE	100	2

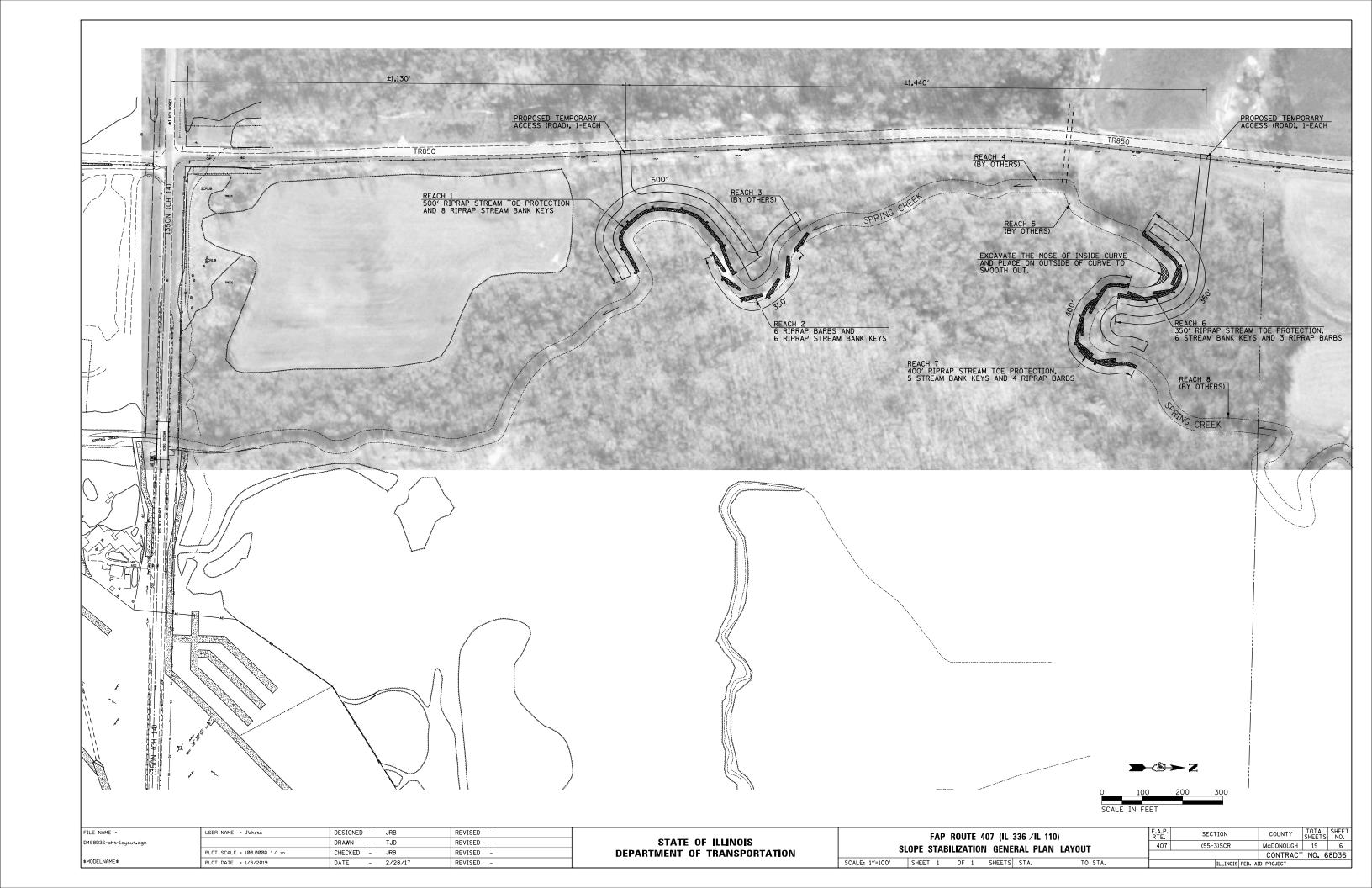
	20100500			
LOCATION	TREE REMOVAL, ACRES			
	ACRE ACRE			
ENTIRE PROJECT	2.5			

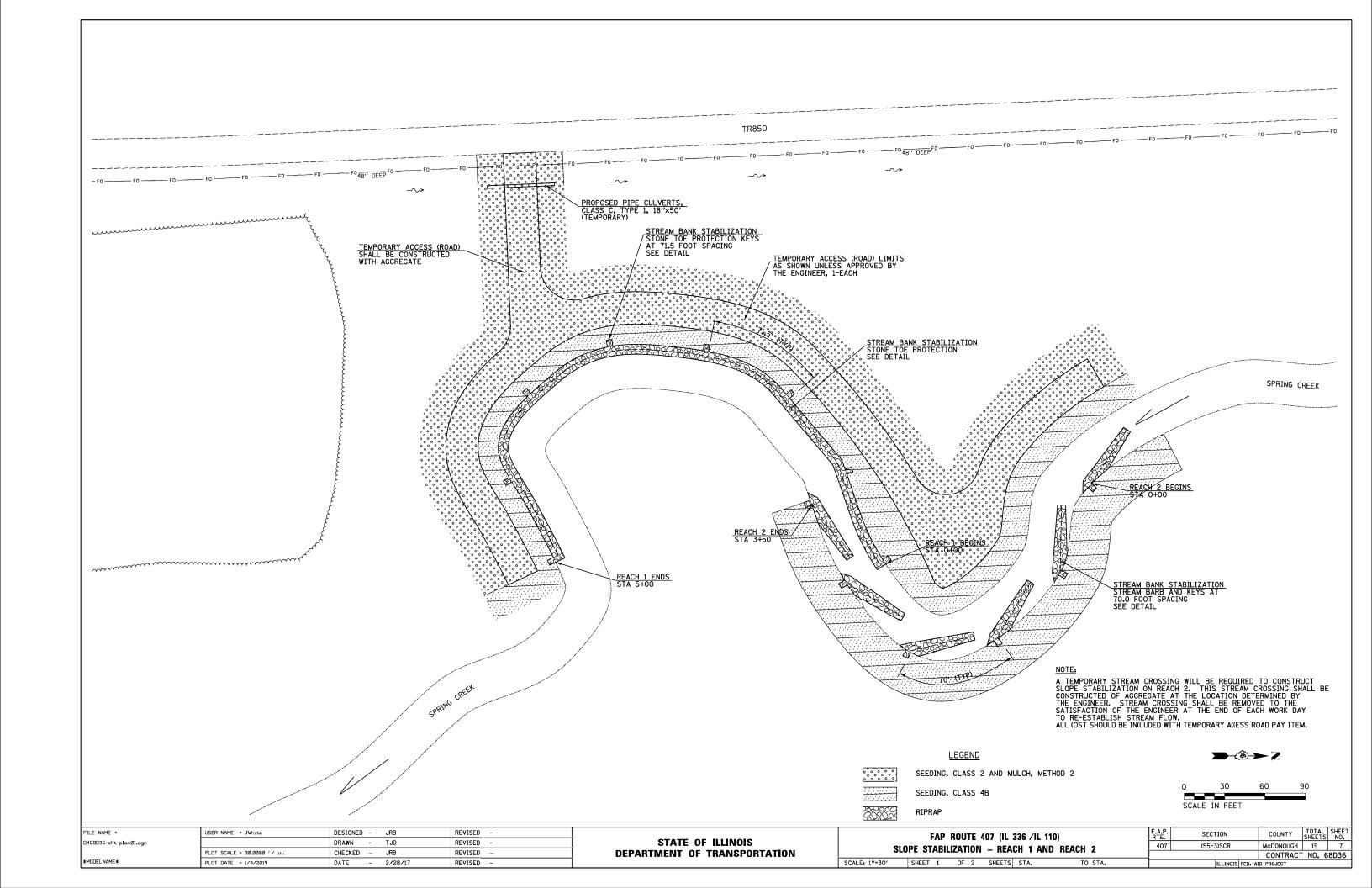
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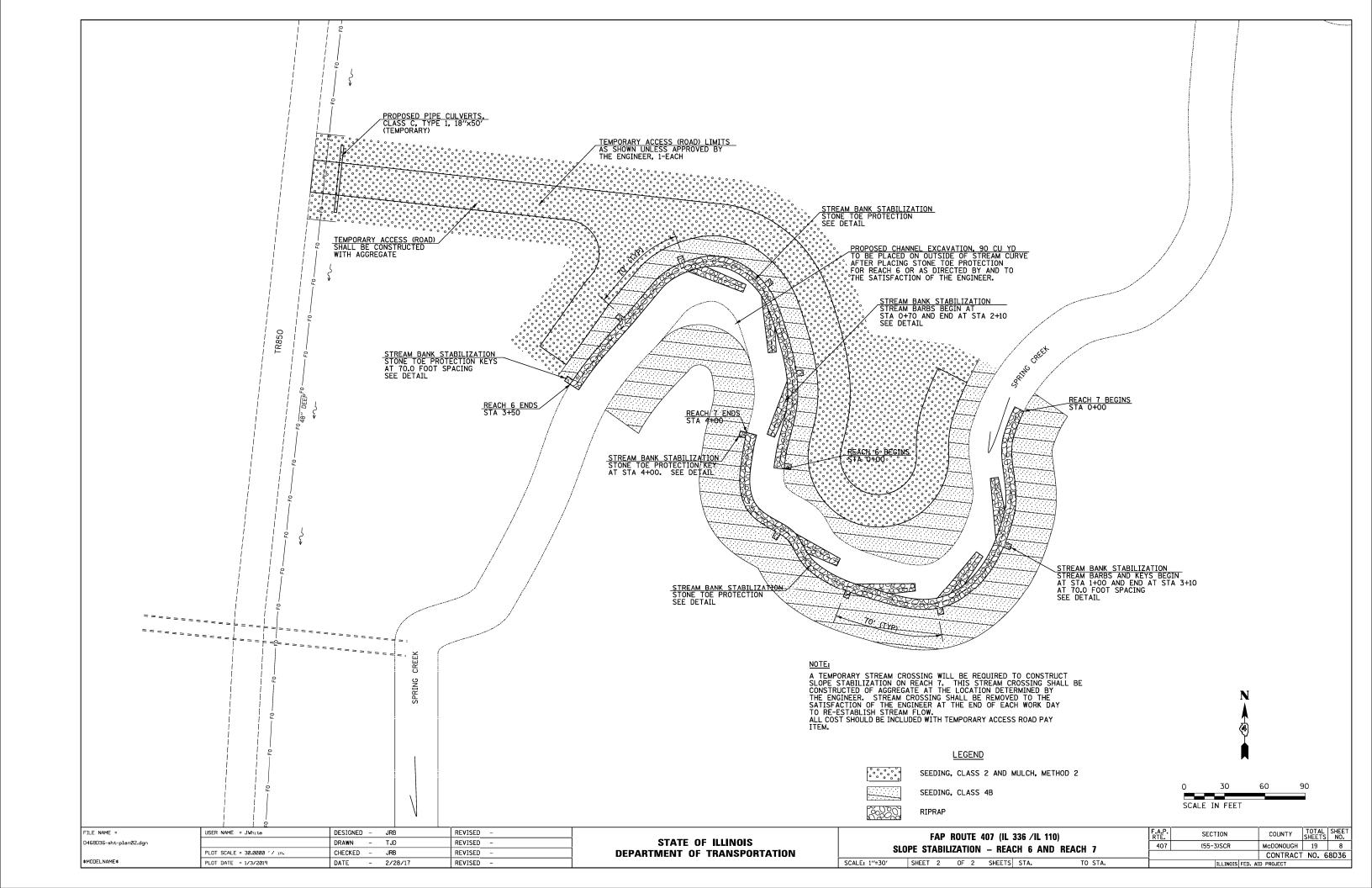
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DEPARTMENT	0F	<b>TRANSPORTATION</b>

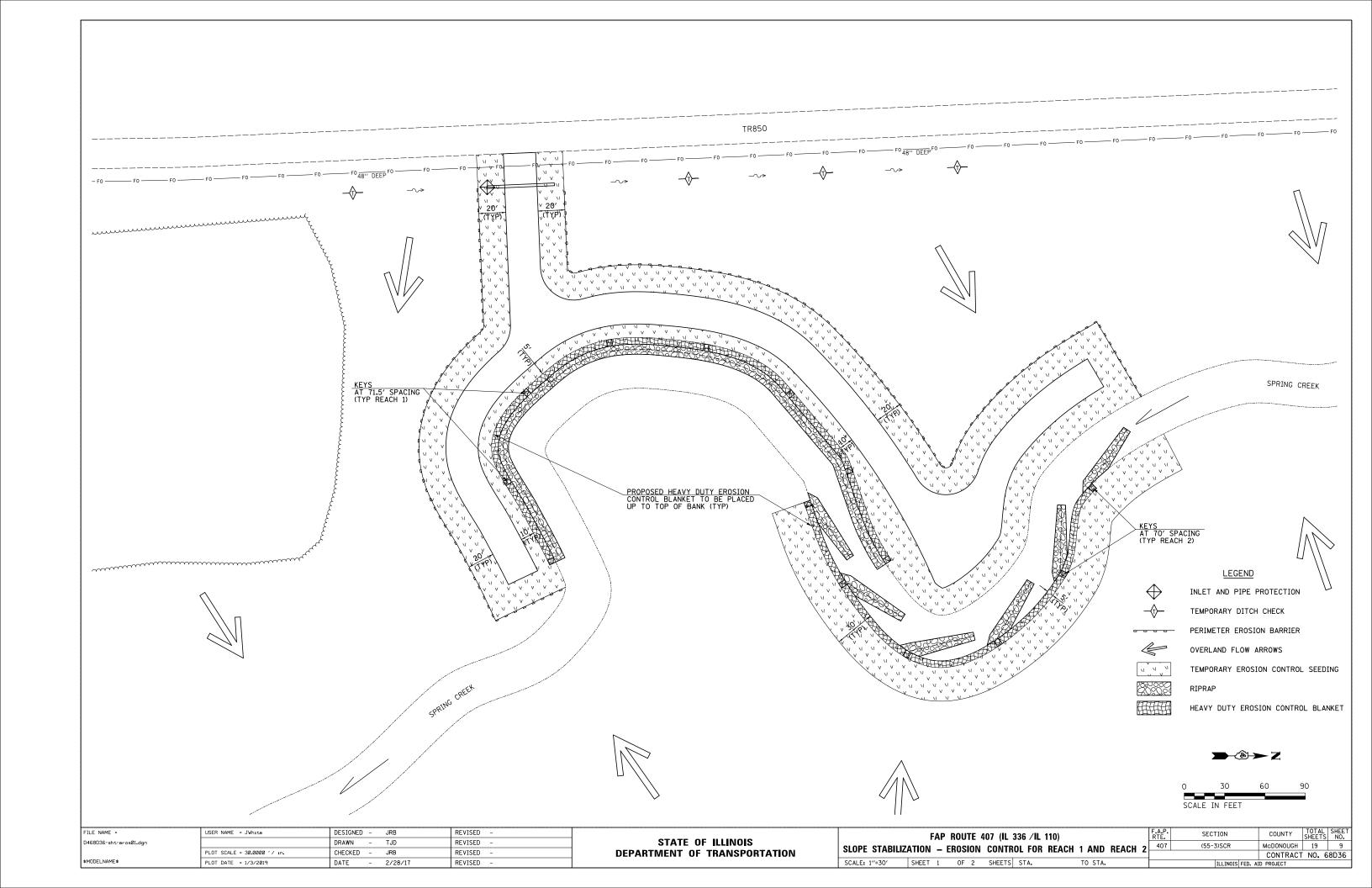
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						407	(55-3)SCR	McDONOUGH	19	4		
			JUIL	JULL	.5 01 0	LUANTITIES				CONTRACT	NO. 6	8D36
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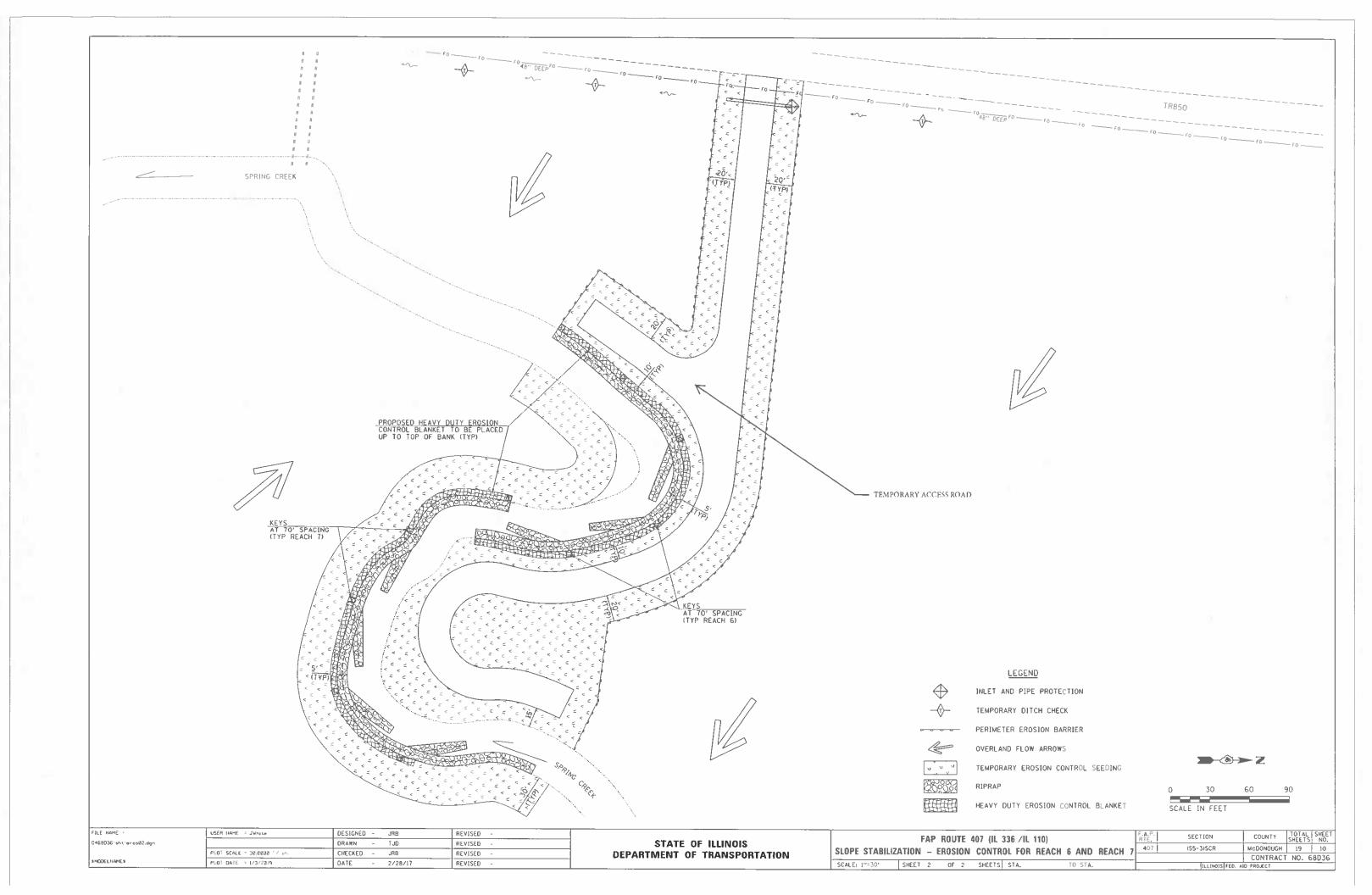


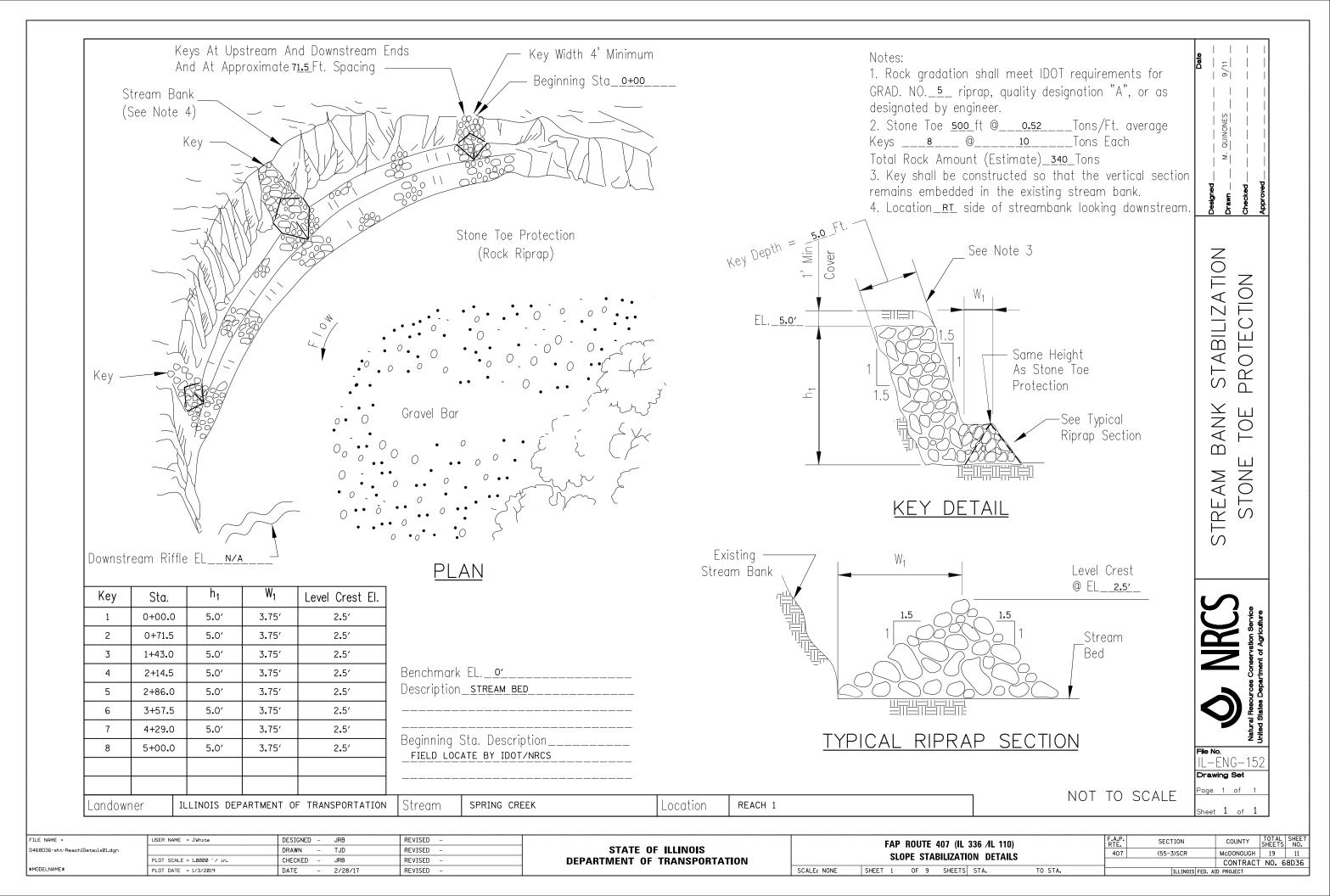


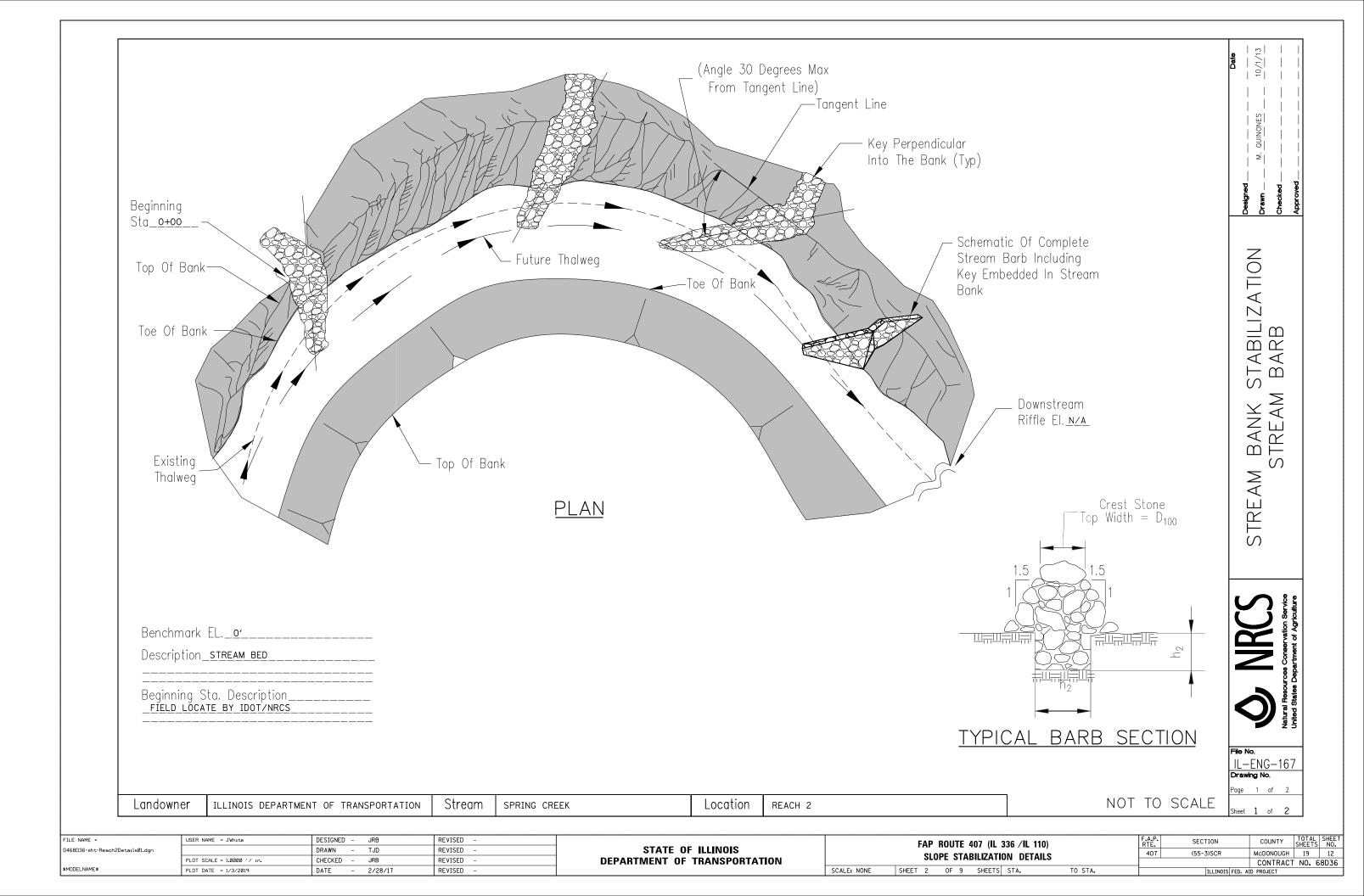


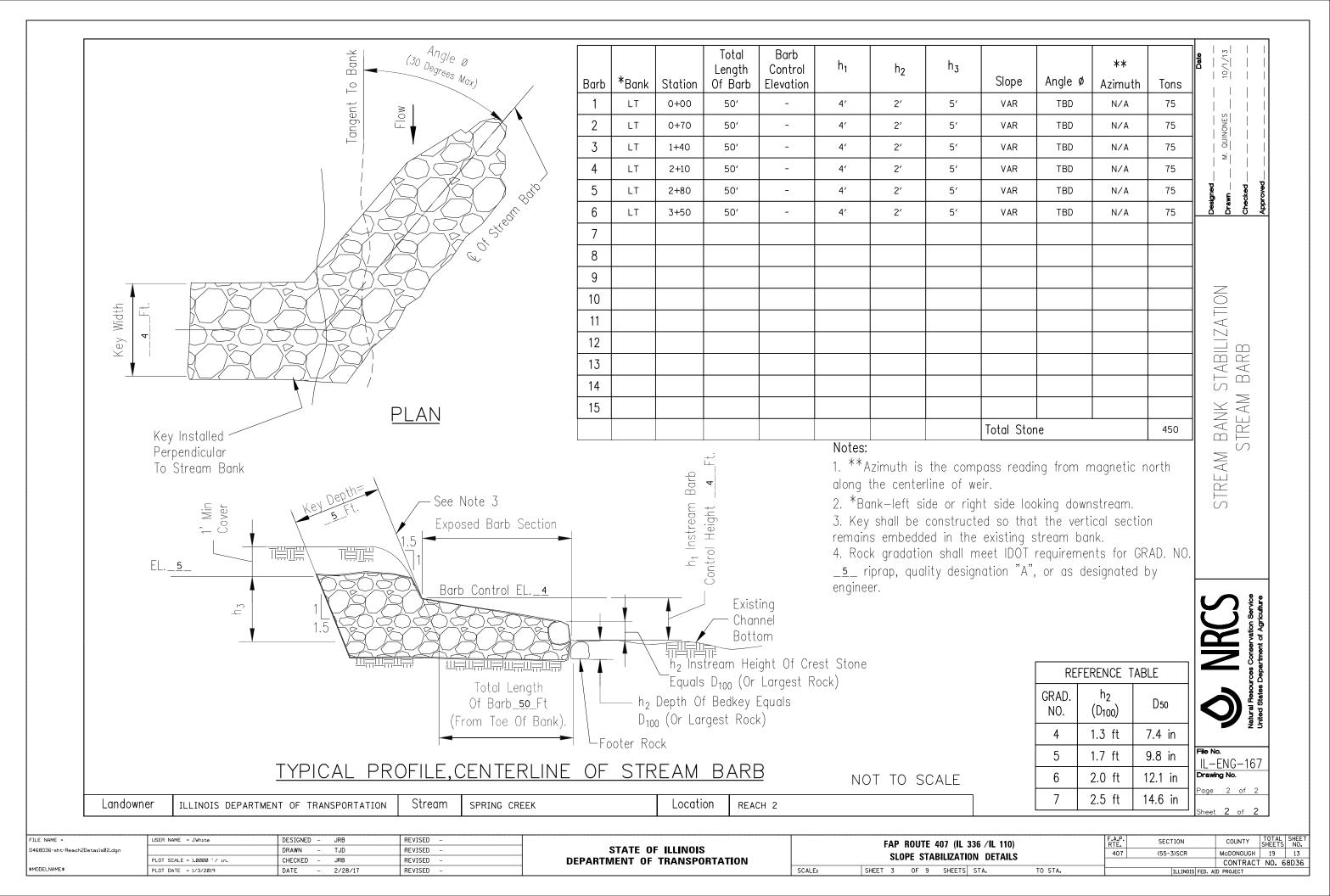


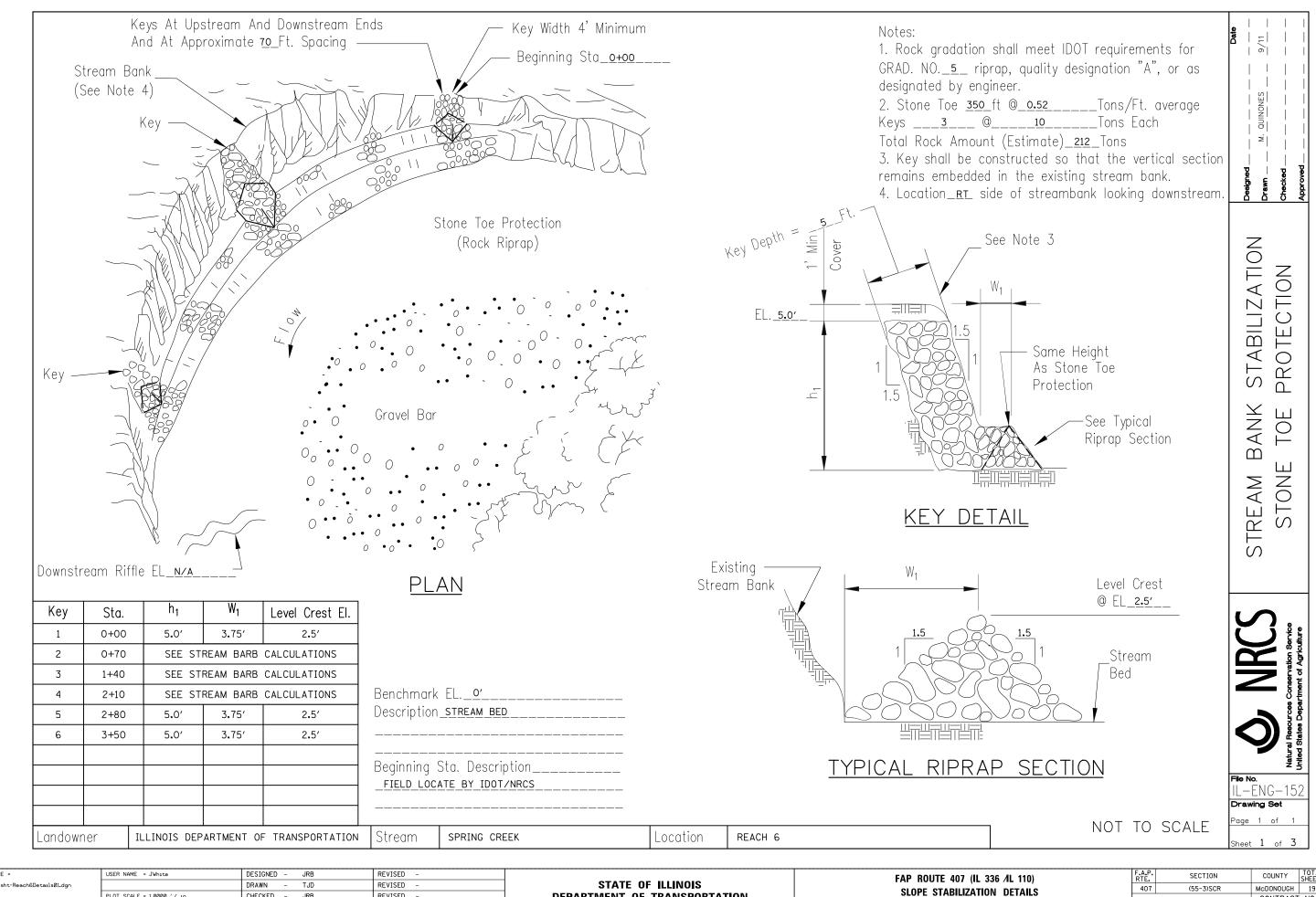












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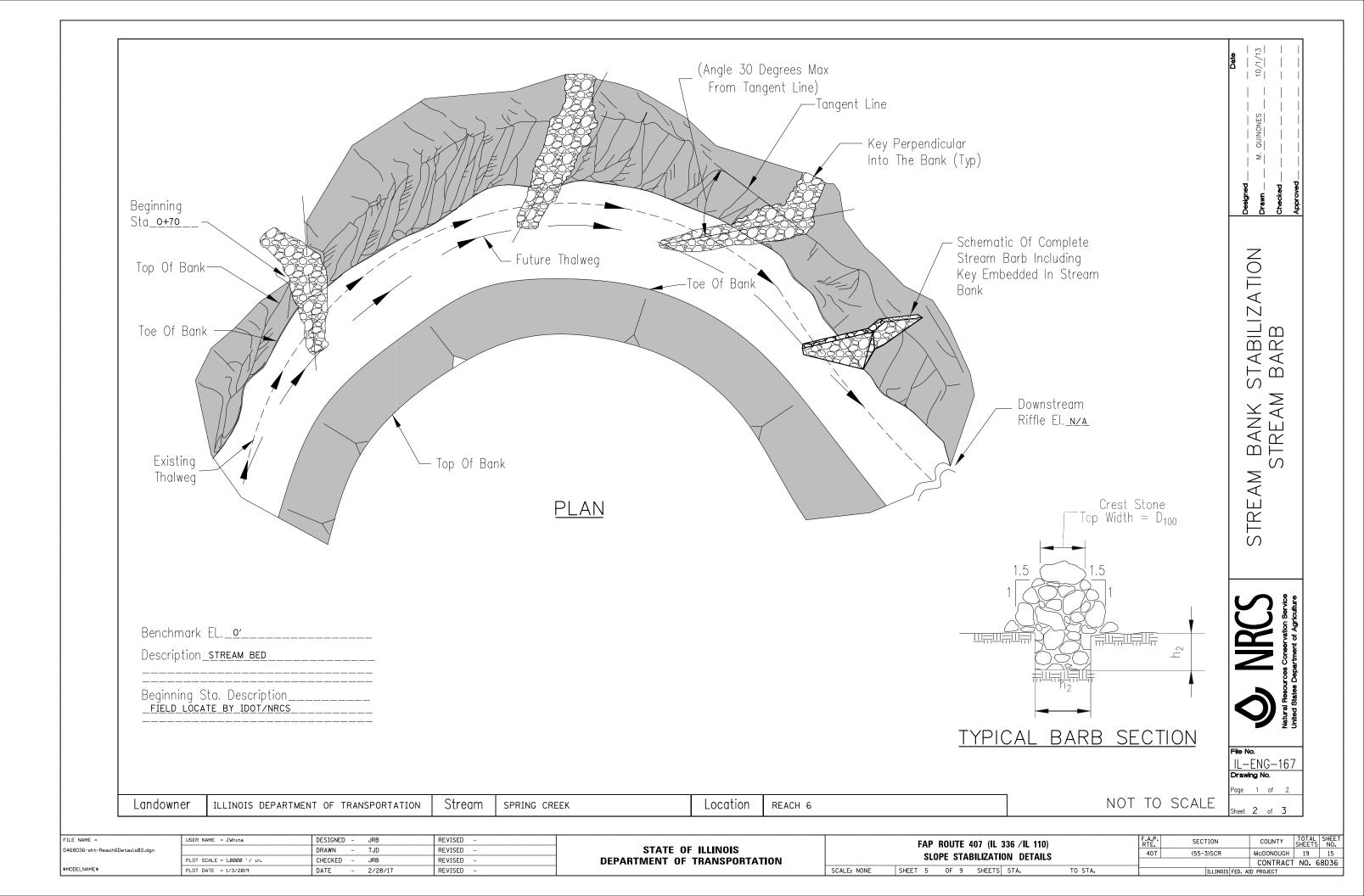
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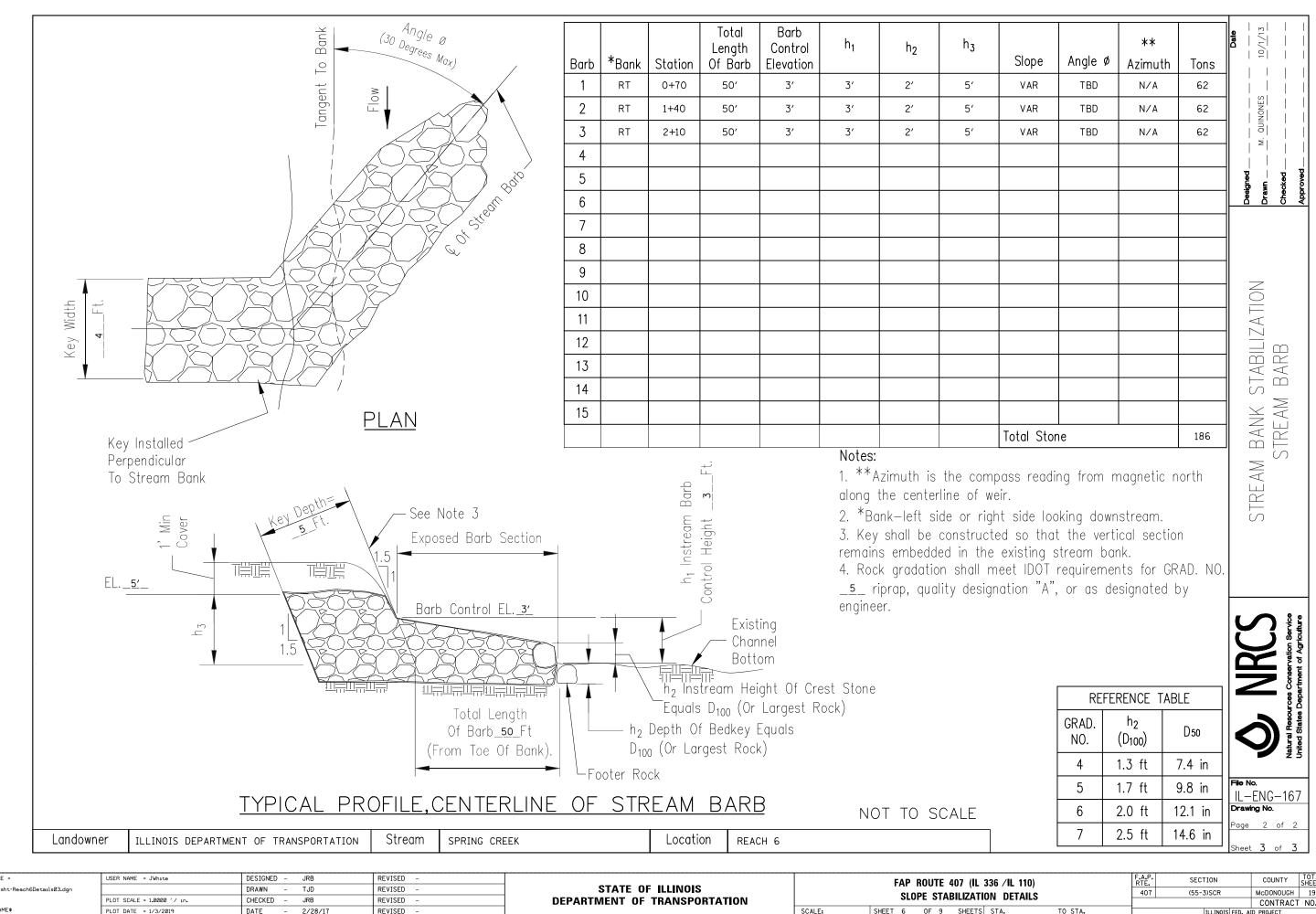
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**SLOPE STABILIZATION DETAILS** SHEET 4 OF 9 SHEETS STA.

SCALE: NONE

CONTRACT NO. 68D36





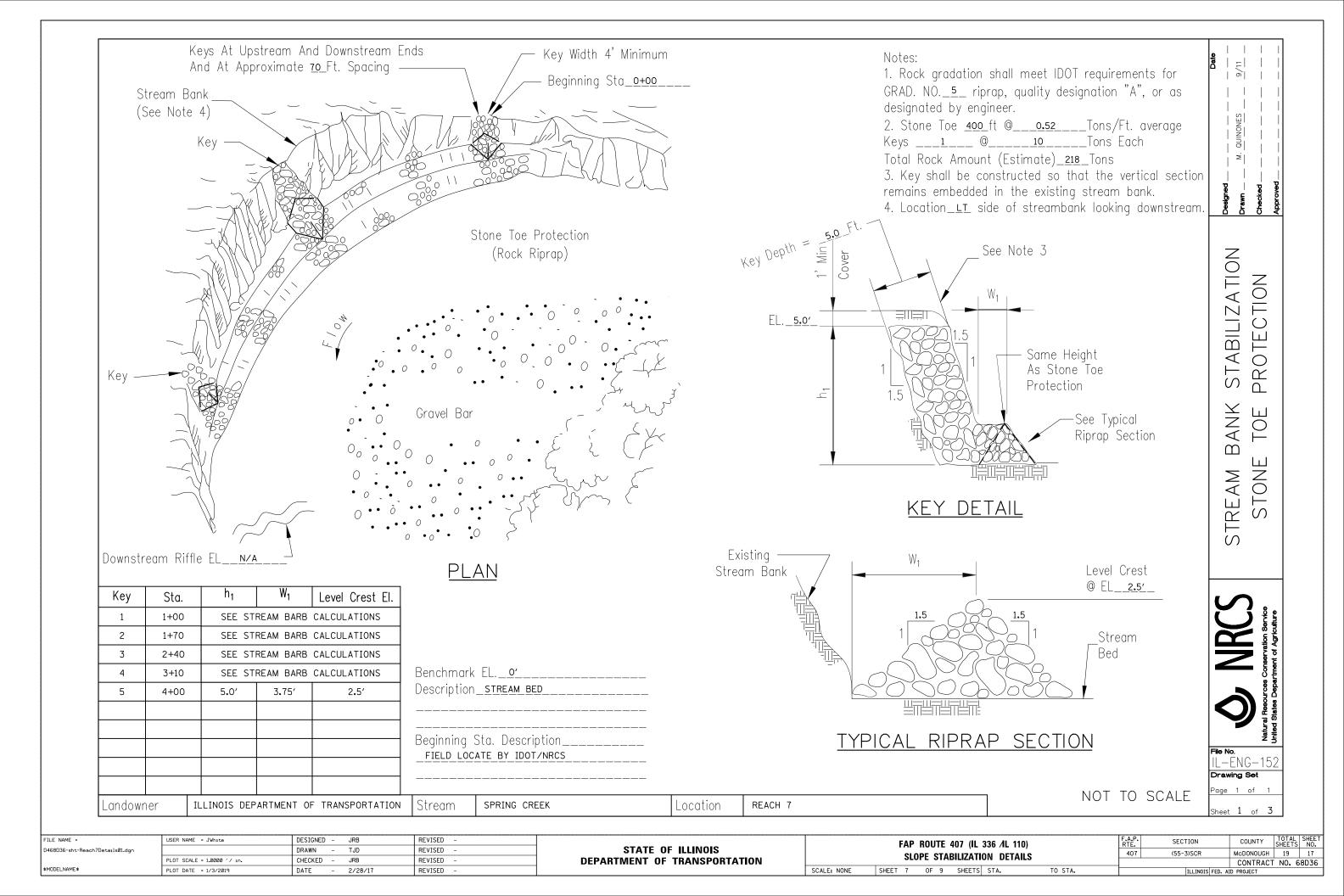
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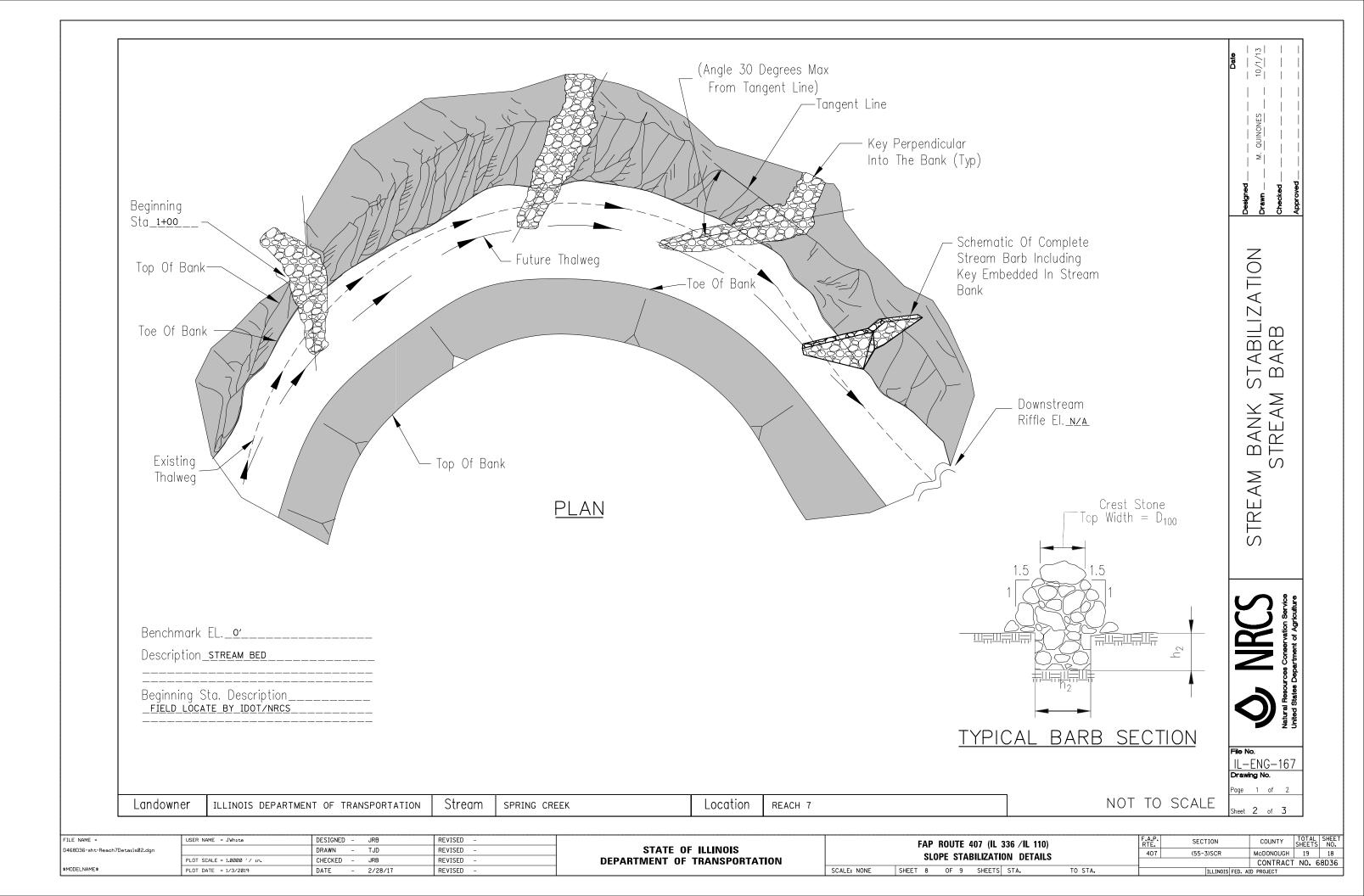
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		DRAWN	-	TJD	REVISED	-
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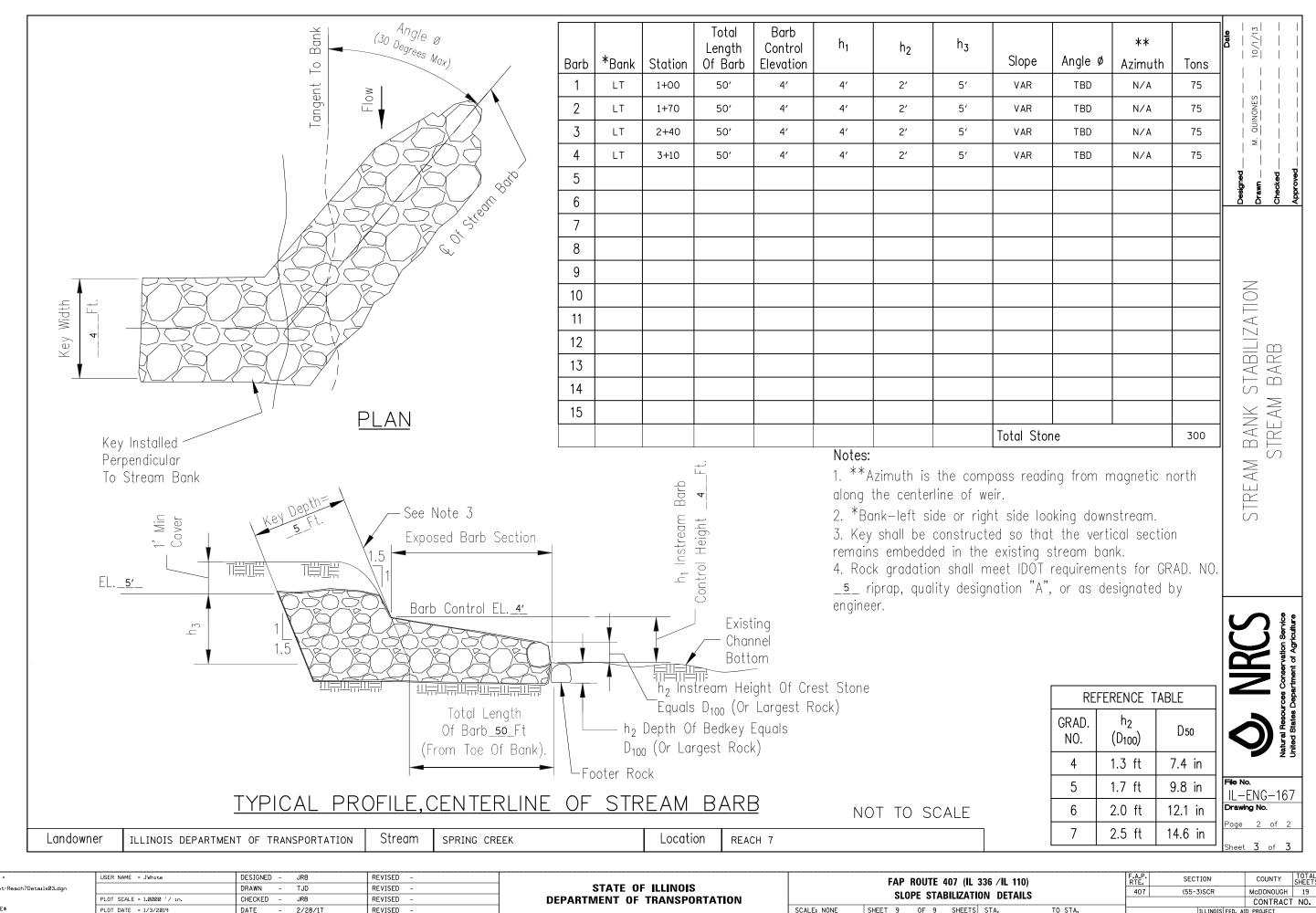
**DEPARTMENT OF TRANSPORTATION** 

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			CONTRACT	NO. 6	8D36
	ILLINOIS	FED. A	D PROJECT		







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PLOT DATE = 1/3/2019	DATE	-	2/28/17	REVISED -

**DEPARTMENT OF TRANSPORTATION** 

					•	336 /IL 110) ON DETAILS	
SCALE: NONE	SHEET	9	OF	9	SHEETS	STA.	

	TI I TNOTS	FFD. A1	D PROJECT		
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