06-13-2025 LETTING ITEM 074

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	105-SLP-1	HENDERSON	8	1
	ILLINOIS	CONTRACT NO. 68H96		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

HIGHWAY STANDARDS

000001-08	701201-05
630001-13	701901-10
630301-09	725001-01
665001-02	782006-01
701001-02	701006-05

PROPOSED HIGHWAY PLANS

FAS ROUTE 1412 (IL 94)
SECTION 105-SLP-1
SLOPE STABILIZATION
HENDERSON COUNTY

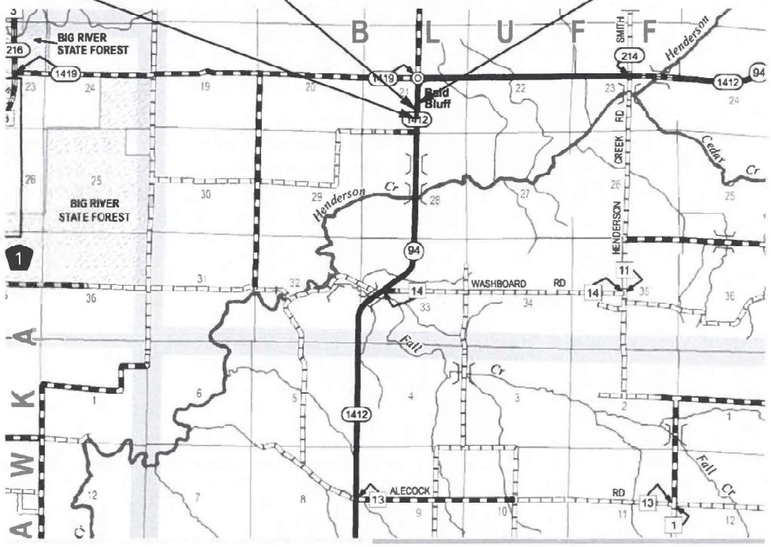
C-94-015-24

R4W

LOCATION

BEGIN IMPROVEMENT STA 1+05.53

END IMPROVEMENT STA 3+94.11

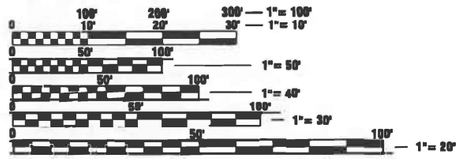


GROSS LENGTH = 289 FT. = 0.055 MILES

NET LENGTH = 289 FT. = 0.055 MILES

DESIGN DESIGNATION

US 94:	**MAJOR COLLECTOR**
ADT:	**350 (2021)**
SU:	**30**
MU:	**50**



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD 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 EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER: BEN TELLEFSON
PROJECT MANAGER: WILL MOSER

CATALOG NO. 036462-00D
CONTRACT NO. 68H96

D-94-015-24

LOCATION OF SECTION INDICATED THUS: -

PROJECT DESCRIPTION:

SLOPE REPAIR ALONG IL 94

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 18 20 25
Terrie L. Bennett
REGIONAL ENGINEER

May 9 20 25
ENGINEER OF DESIGN AND ENVIRONMENT

May 9 20 25
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
www.klingner.com
Galesburg, Illinois
49 North Prairie Street
309.342.4042
Quincy, IL Hannibal, MO
Burlington, IA Pella, IA Columbia, MO
Davenport, IA Carbondale, IL
DESIGN FIRM NO. 184-2738

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV. 4/17/25

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE HENDERSON COUNTY 100% STATE 0005 RURAL					
20200100	EARTH EXCAVATION	CU YD	63	63					
20400800	FURNISHED EXCAVATION	CU YD	5	5					
25000200	SEEDING, CLASS 2	ACRE	0.1	0.1					
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	9	9					
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	9	9					
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	9	9					
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.2	0.2					
25100115	MULCH, METHOD 2	ACRE	0.1	0.1					
28100209	STONE RIPRAP, CLASS A5	TON	240	240					
28200200	FILTER FABRIC	SQ YD	290	290					
60905305	BOX CULVERTS TO BE CLEANED	FOOT	10	10					
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	125	125					

*= SPECIALTY ITEM

MODEL: Default
FILE NAME: P:\Galesburg\21\files\2\3081 IDOT - DIST 4 - PTB 201-033\Work Order 08 - FY 2023 Slope Repairs\18. Transportation\Location 1\CADD Sheets\s-sht-Summary 1.dgn

KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
616 N.24TH ST. QUINCY, ILLINOIS 62301 217.223.3670
STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = aschafer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/7/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	105-SLP-1	HENDERSON	8	2

CONTRACT NO. 68H96

ILLINOIS | FED. AID PROJECT

REV. 4/17/25

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE HENDERSON COUNTY 100% STATE 0005 RURAL					
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2					
	66500105	WOVEN WIRE FENCE, 4'	FOOT	210	210					
	67100100	MOBILIZATION	L SUM	1	1					
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1					
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2					
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	4	4					
	X4810200	AGGREGATE SHOULDER REMOVAL	CU YD	15	15					
	X6650202	WOVEN WIRE FENCE REMOVAL	FOOT	205	205					
	X5220098	TIMBER RETAINING WALL REMOVAL	FOOT	15	15					
	Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	107	107					
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1					

*= SPECIALTY ITEM

EARTH EXCAVATION SCHEDULE

LOCATION STATION TO STATION	SIDE	20200100 EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED (25%)	EMBANKMENT	EARTHWORK BALANCE
		CU YD			
IL 94					
1+05.53 3+94.11	RT	62.4	46.8	52.1	(5.3)
TOTALS		62.4	46.8	52.1	(5.3)
USE		63	47	53	(5)

SEEDING SCHEDULE

STATION TO STATION	SIDE	WIDTH	25000200 SEEDING CLASS 2	25000400 FERTILIZER NUTRIENTS NITROGEN	25000500 FERTILIZER NUTRIENTS PHOSPHORUS	25000600 FERTILIZER NUTRIENTS POTASSIUM	25100115 MULCH METHOD 2	25000700 AGRICULTURAL LIMESTONE
			ACRE	POUND			ACRE	TON
IL 94								
1+05.53 3+94.11	RT	VARIES	0.1	9	9	9	0.1	0.2
TOTALS			0.1	9	9	9	0.1	0.2
USE			0.1	9	9	9	0.1	0.2

ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE SEEDED, FERTILIZED, AND MULCHED.

RIPRAP SCHEDULE

STATION TO STATION	SIDE	WIDTH	28100209 STONE RIPRAP, CLASS A5	28200200 FILTER FABRIC
			TON	SQ YD
IL 94				
2+40.00 3+03.00	RT	VARIES	240.0	290.0
TOTALS			240.0	290.0
USE			240	290

GUARDRAIL EROSION CONTROL AGGREGATE

STATION TO STATION	SIDE	WIDTH	Z0001002 TON
IL 94			
1+05.53 3+94.11	RT	VARIES	106.6
TOTAL			106.6
USE			107

BOX CULVERTS TO BE CLEANED

STATION	SIDE	60905305 FOOT
IL 94		
2+61.50	RT	10
TOTALS		10
USE		10

WOVEN WIRE FENCE, 4'

STATION TO STATION	SIDE	66500105 FOOT
IL 94		
1+72.00 3+77.00	RT	210
TOTAL		210
USE		210

WOVEN WIRE FENCE REMOVAL

STATION TO STATION	SIDE	X6650202 FOOT
IL 94		
1+72.00 3+77.00	RT	205
TOTAL		205
USE		205

AGGREGATE SHOULDER REMOVAL

STATION TO STATION	SIDE	WIDTH	X4810200 CU YD
IL 94			
1+05.53 3+94.11	RT	2.0	14.3
TOTAL			14.3
USE			15

TIMBER RETAINING WALL REMOVAL

STATION TO STATION	SIDE	Z0075505 FOOT
IL 94		
2+82.60 2+91.89	RT	14.8
TOTAL		14.8
USE		15

GUARDRAIL SCHEDULE

STATION TO STATION	SIDE	63000003 SPBGR TYPE A 9' POSTS	63100167 TYPE 1 SPECIAL (TANGENT)	78200005 GUARDRAIL REFLECTORS TYPE A	72501000 TERMINAL MARKERS DIRECT APPLIED
		FOOT	EACH		
IL 94					
1+50.00 3+50.00	RT	125.0	2	4	2
TOTALS		125.0	2	4	2

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KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
616 N.24TH ST. QUINCY, ILLINOIS 62301 217.223.5570
STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = asc hafer | PLOT SCALE = 40.0000 ' / i n. | PLOT DATE = 3/7/2024
DESIGNED - | DRA WN - | CHECKED - | DATE -
REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

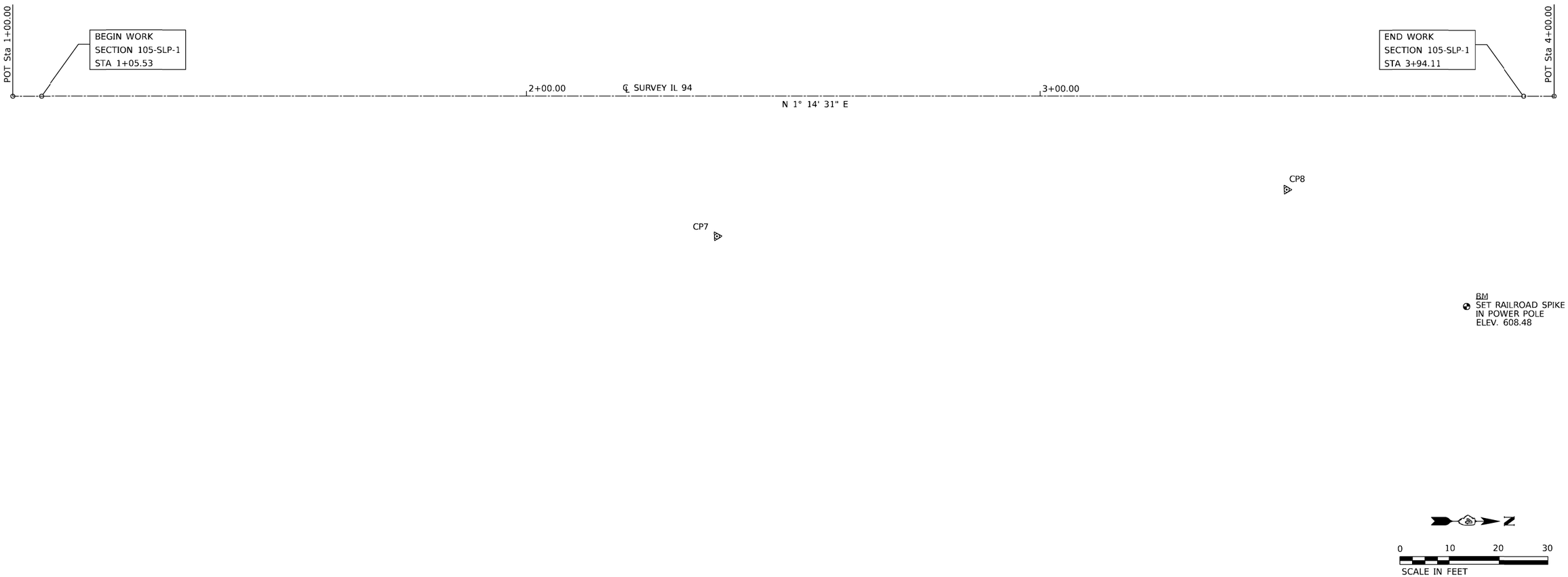
SCHEDULE OF QUANTITIES

SCA LE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTA L SHEETS	SHEET NO.
1412	105-SLP-1	HENDERSON	8	4
		CONTRACT NO. 68H96		
		ILLINOIS	FED. AID PROJECT	

ALIGNMENT COORDINATES - IL 94			
	STATION	N	E
POT	1+00.00	1,583,009.4083	2,107,050.1750
POT	1+05.53	1,583,014.9370	2,107,050.2949
POT	3+94.11	1,583,303.4493	2,107,056.5496
POT	4+00.00	1,583,309.3379	2,107,056.6773

BENCHMARK AND CONTROL POINT COORDINATES			
	N	E	ELEVATION
CP7	1,583,145.8200	2,107,080.4560	608.51
CP8	1,583,256.9460	2,107,073.7730	608.48
BM	1,583,291.4656	2,107,097.2628	608.48



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KL NGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
616 N.24TH ST. QUINCY, ILLINOIS 62301 217.223.3670
STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

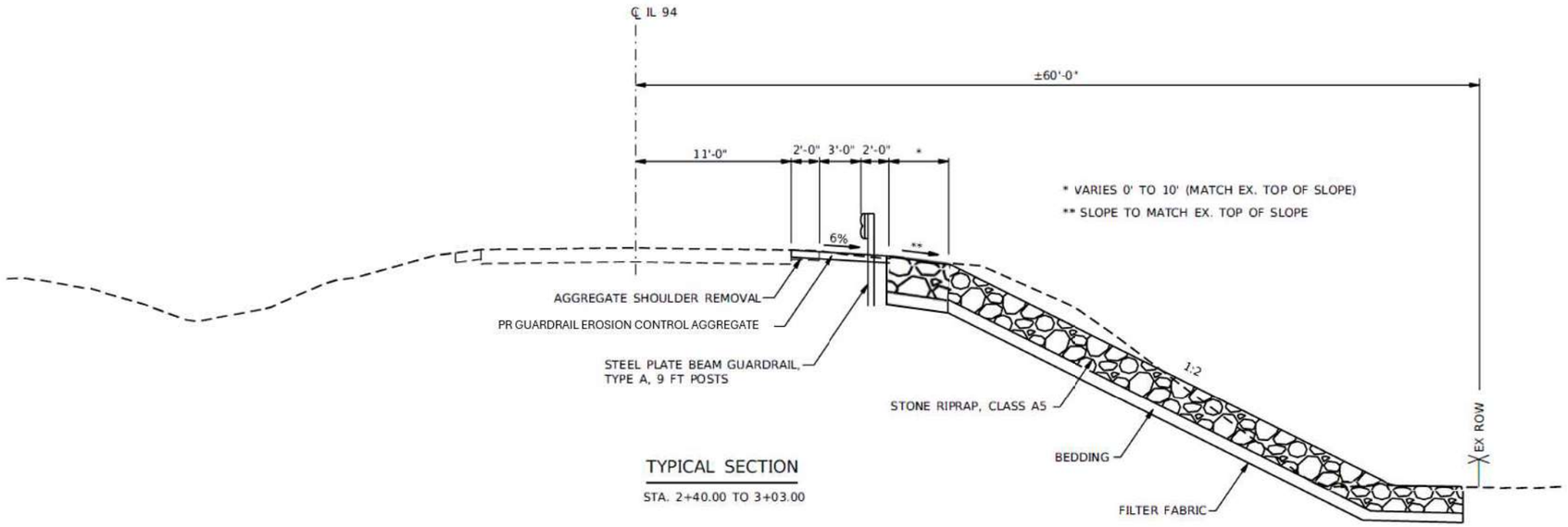
U ER NAME =aschafer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.000 / in.	CHECKED -	REVISED -
PLOT DATE = 3/6/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT SHEET

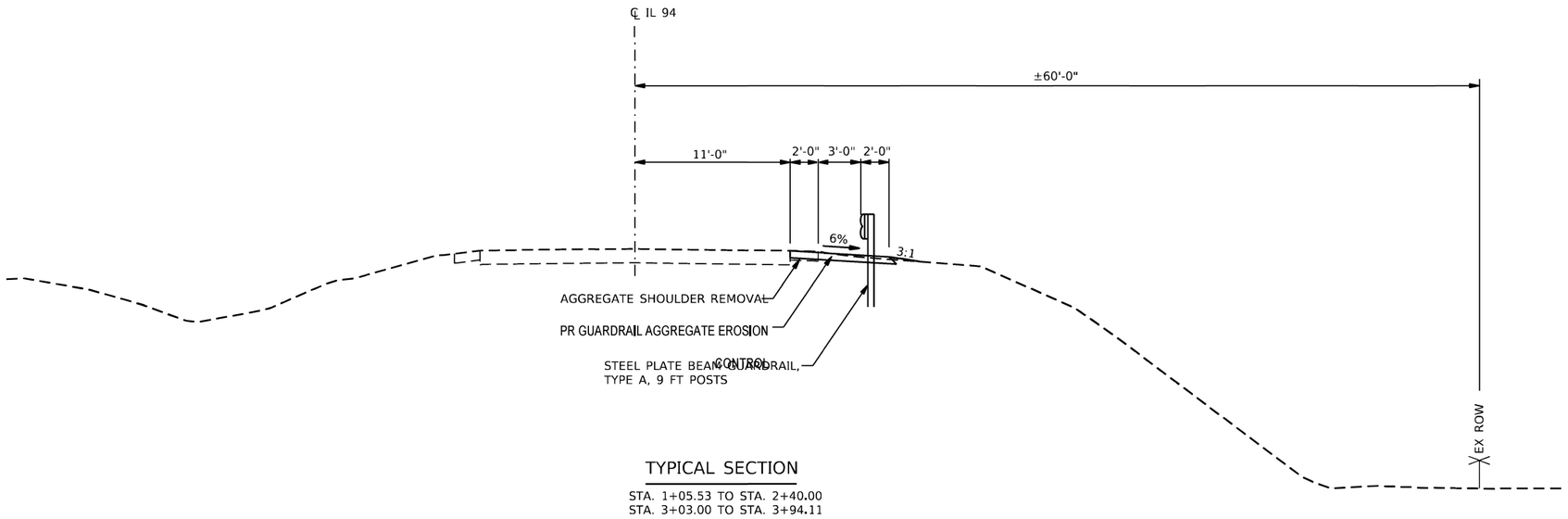
SCALE: 1"=10' | SHEET 1 OF 1 SHEETS | STA. 1+00 | TO STA. 4+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	105-SLP-1	HENDERSON	8	5
		CONTRACT NO. 68H96		
	ILLINOIS	FED. AID PROJECT		



TYPICAL SECTION

STA. 2+40.00 TO 3+03.00



TYPICAL SECTION

STA. 1+05.53 TO STA. 2+40.00
STA. 3+03.00 TO STA. 3+94.11

MODEL: Default
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KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
616 N 24TH ST. QUINCY, ILLINOIS 62301 217 223-3670
STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

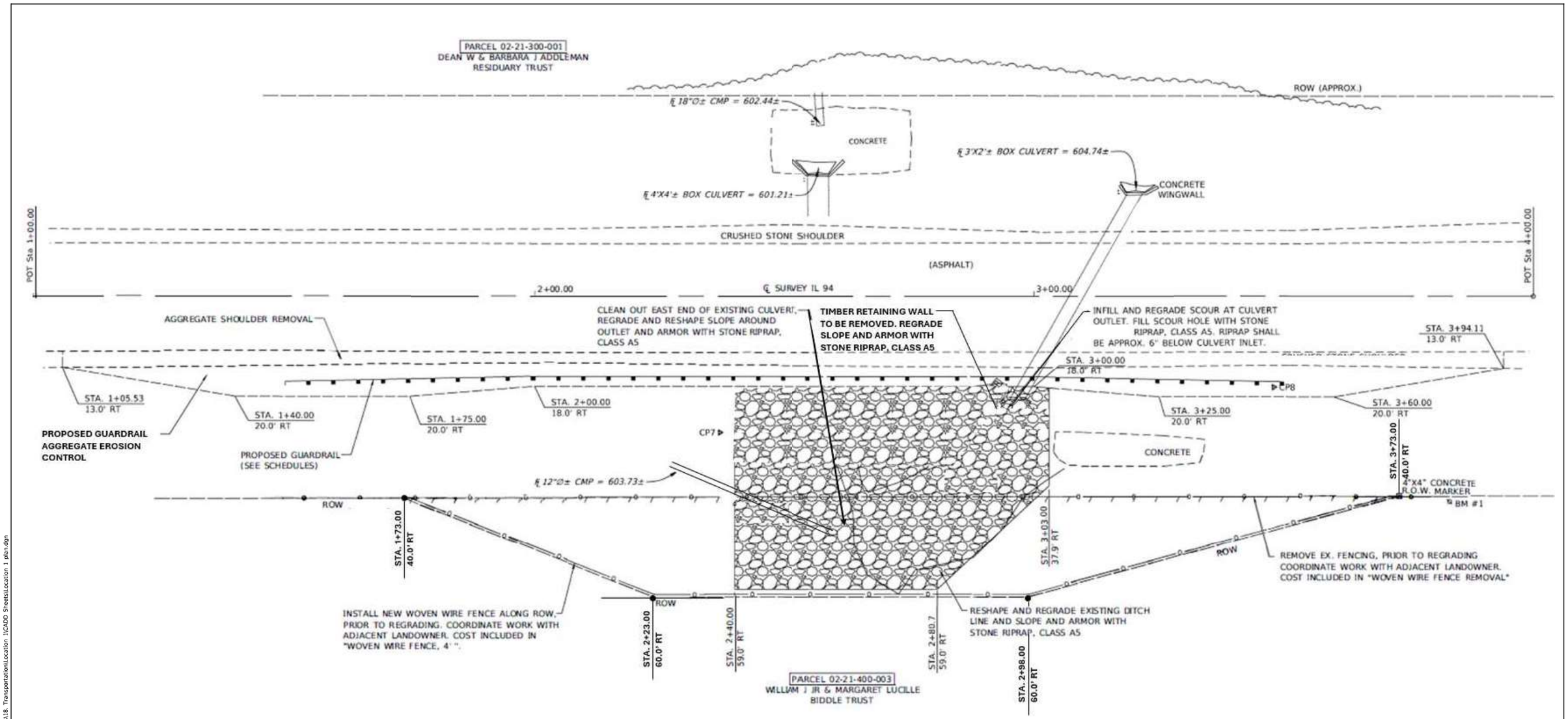
USER NAME = aschafer	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/7/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: NTS | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	105-SLP-1	HENDERSON	8	6
		CONTRACT NO. 68H96		
	ILLINOIS	FED. AID PROJECT		



BM #1
SET RAILROAD SPIKE IN POWER POLE
ELEV = 608.48

GUARDRAIL NOTES:

1. TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT ASSUMED AS 37.5' SECTION

0 10 20 30
SCALE IN FEET

MODEL: Model
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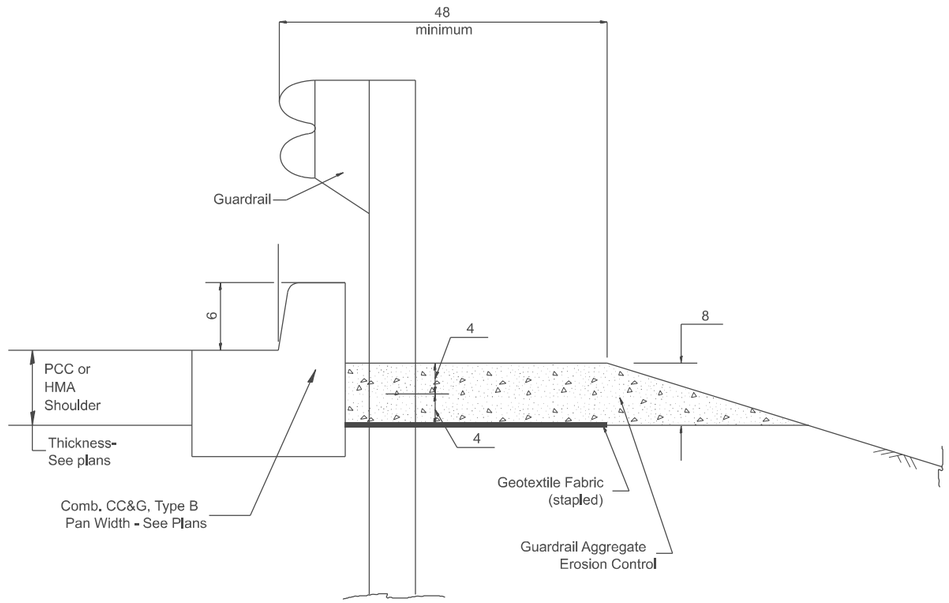
KLINGNER & ASSOCIATES, P.C. Engineers • Architects • Surveyors 616 N 24TH ST. QUINCY, ILLINOIS 62301 217 223.5870 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738	USER NAME = asc hafer	DESIGNED -	REVISED -
		DRA WN -	REVISED -
	PLOT SCALE = 20.000 / i n	CHECKED -	REVISED -
	PLOT DATE = 3/7/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SITE PLAN

SCA LE: 1"=10' | SHEET 1 OF 1 SHEETS | STA. 1+00 TO STA. 4+00

F.A.S. RTE.	SECTION	COUNTY	TOTA L SHEETS	SHEET NO.
1412	105-SLP-1	HENDERSON	8	7
		CONTRACT NO. 68H96		
		ILLINOIS	FED. AID PROJECT	



TYPICAL SECTION WITH COMBINATION CONCRETE CURB & GUTTER

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.

2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.

3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12 minimum overlap. A knife cut for guardrail post installation is necessary.

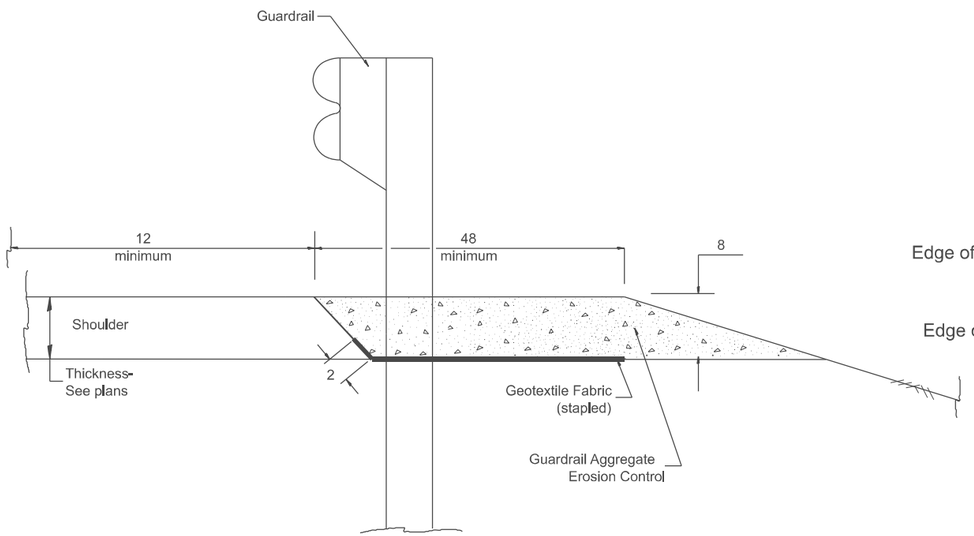
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.

5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.

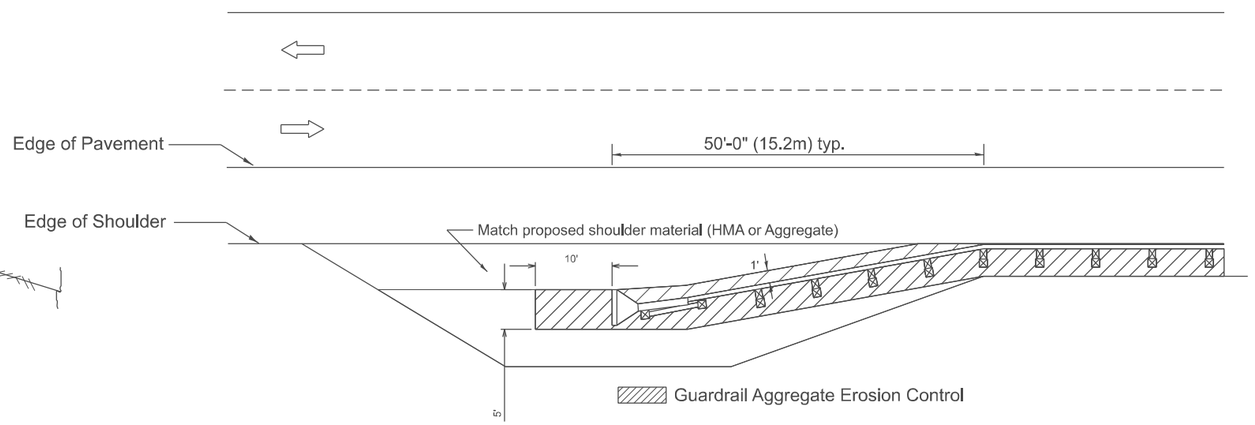
6. Materials shall meet the following requirements:

A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.

B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.



TYPICAL SECTION WITHOUT EROSION CONTROL CURB



All dimensions are in inches
unless otherwise noted.

USER NAME = Eric.Thomas	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 12/7/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS

SCALE: NOT TO SCALE | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1412	105-SLP-1	HENDERSON	8	8
	DISTRICT 4 DETAIL NO. 630101	CONTRACT NO.	68H96	
	ILLINOIS FED. AID PROJECT			