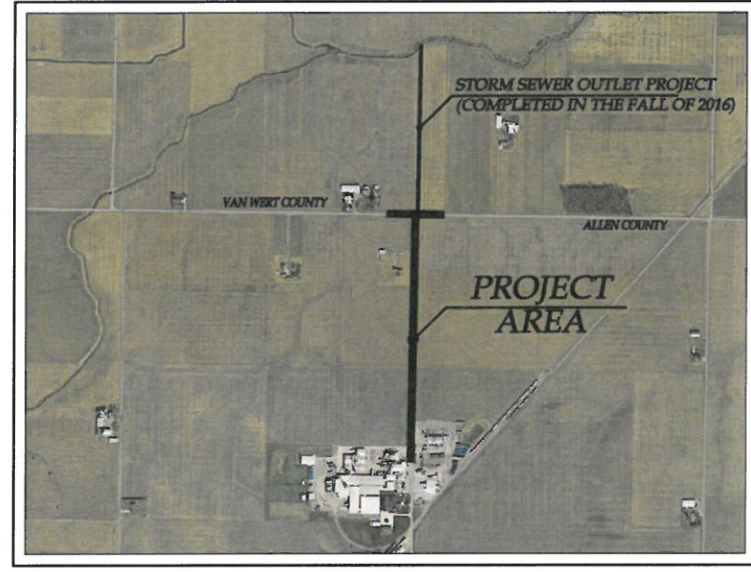


ALLEN COUNTY, OHIO OFFICE OF THE COUNTY ENGINEER KILL ROAD RECONSTRUCTION

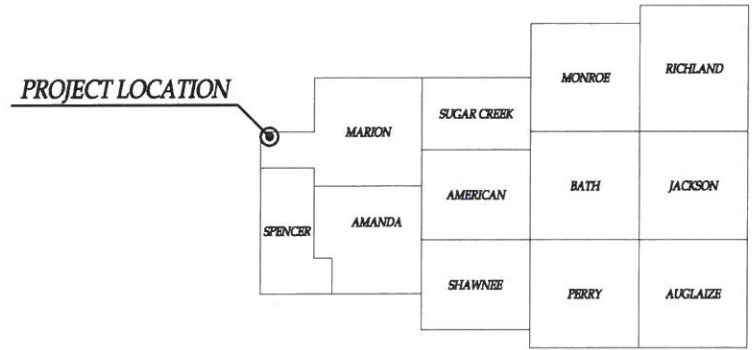
& STORM SEWER OUTLET PROJECT

SECTION 03, T3S, R4E, MARION TOWNSHIP
ALLEN COUNTY, OHIO
&
SECTION 34, T2S, R4E, WASHINGTON TOWNSHIP
VAN WERT COUNTY, OHIO



VICINITY MAP
SCALE: 1" = 800'

PORTION TO BE IMPROVED

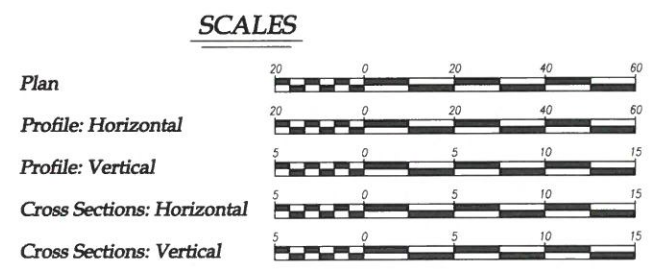


Supplemental Prints of Standard Construction Drawings									

- ### CONVENTIONAL SIGNS
- County Line
 - Township Line
 - Section Line SECTION 34
 - Corporation Line or
 - Fence Line (existing) (proposed)
 - Center Line 10+00 11+00 12+00 13+00 14+00 15+00
 - Existing Communications Line T
 - Existing San. Sewer San
 - Trees Stumps (to be removed)
 - Utility Poles: Telephone Power Light
 - Limited Access (only) LA
 - Right of Way (only) R/W
 - Limited Access & Right of Way LA & R/W
 - Existing Right of Way R/W
 - Proposed Right-of-Way R/W
 - Property Line
 - Railroad or
 - Existing Water Main W
 - Guardrail (existing) (proposed)
 - Signs (existing) (proposed)
 - Monument Box (existing) (proposed)

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2016 SPECIFICATIONS

The standard specifications of The State of Ohio, Department of Transportation, Dated January 1, 2016 including changes and supplemental specifications listed in the proposal shall govern the construction of this project.

We the Board of Allen County Commissioners of Allen County, Ohio, in formal session, hereby approve these plans and certify that the necessary Right-of-Way is available.

	6/22/17
ALLEN COUNTY COMMISSIONER	DATE
	6/22/17
ALLEN COUNTY COMMISSIONER	DATE
	6-22-17
ALLEN COUNTY COMMISSIONER	DATE

I hereby approve these plans and declare that the making of this improvement will require the closing to traffic of the roadway.

	6/22/17
ALLEN COUNTY ENGINEER	DATE

Length of Project

Begin Project Kill Road:	Station 6+00
End Project Kill Road:	Station 27+41.43
Project Length Kill Road:	2141.43 linear feet
Begin Project State Road:	Station 97+50
End Project State Road:	Station 102+50
Project Length State Road:	500 Linear Feet
Project Length Total:	2641.43 Linear Feet

UNDERGROUND UTILITIES
 TWO WORKING DAYS
 BEFORE YOU DIG
 CALL 800-362-2764 (TOLL FREE)
 OHIO UTILITIES PROTECTION SERVICE
 NON MEMBERS
 MUST BE CALLED DIRECTLY

Plans Prepared By:
Allen County Engineer
 1501 N. Sugar St.
 Lima, Ohio 45801

GENERAL NOTES & TYPICAL SECTIONS

UNDERGROUND UTILITIES:

The locations of the underground utilities shown on the plans are as obtained from the owners of the utility as required by Section 153.64, Ohio Revised Code.

The owner of the underground utility facility shall, within forty-eight hours, excluding Saturdays, Sundays, and legal Holidays, after notice is received, staked, mark or otherwise designate the location of the underground utility facilities in the construction area in such a manner as to indicate their course together with the approximate depth at which they were installed.

UTILITY OWNERSHIP:

The following utilities and owners may be located within the work limits of this project:

Electric: Midwest Electric, Inc.
6029 County Road 33A
P.O. Box 10
St. Marys, Ohio 45885
Mike Dieringer
Phone: (419) 394-4110

American Electric Power Company
369 E. O'Connor Avenue
Lima, Ohio 45801
Larry Cascioli
(419) 998-5126

Telephone: Century Link
122 S. Elizabeth Street
Lima, Ohio 45801
Dave Spurgeon
Phone: (419) 226-6220

Gas: Dominion East Ohio Gas
120 S. Jackson St.
Lima, Ohio 45801
Brian Holden
Phone: (419) 226-4829

Cable: Time Warner Cable
3100 Elida Road
Lima, Ohio 45805
Rick Lyle
Phone: (419) 996-2260

Railroad: Delphos Terminal Company, Inc.
c/o: Bunge North America, Inc.
11720 Borman Dr
Saint Louis, Missouri 63146
Phone: (314) 292-2000

Indiana & Ohio Railway Company
c/o: Genesee & Wyoming, Inc.
1750 N. Sugar Street
Lima, Ohio 45802
Phone: (419) 229-1027

SPECIFICATIONS:

This project shall be governed by THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, Dated January 1, 2016, except as noted under special conditions and specification of the bid documents for this project.

CONTINGENCY QUANTITIES:

The contractor shall not order materials or perform work listed in the general summary for items designated by plan note to be used "As Directed By The Engineer" unless authorized by the engineer.

SUBGRADE STABILIZATION:

The following estimated quantities are to be used as directed by the Engineer to promote stabilization of poor subgrade, after a reasonable effort (as determined by the Engineer) to compact the subgrade failed. Excavation of the first 12" of poor subgrade soil shall be covered under the bid item 204, Subgrade Compaction. At the Engineer's discretion, the following items may be ordered for use at the price bid by the Contractor.

Item 203 Granular Embankment 100 C.Y.

WATERING AND MOWING PERMANENT SEEDED AREAS:

The following estimated quantities are to be used as directed by the Engineer to promote the growth and care for the permanent seeded areas, as per 659.07:

Item 659 Water 20 M Gallons

REMOVAL OF EXISTING PIPE:

The removal of all existing pipe drains which would normally be removed in various excavation items shall be included for payment in the unit prices bid for the respective excavation items, unless otherwise itemized in the plans.

MAINTAINING TRAFFIC:

In addition to the lights, signs and barricades required under Item 614, the following estimated quantities are included for temporary roadways and dust control to be used at the direction of the County Engineer.

Item 616 Water 50 M Gallons

STANDARD CONSTRUCTION DRAWINGS:

Details of construction shall conform to the most current set of standard construction drawings for the Allen County Engineer and/or the Ohio Department of Transportation as designated on the supplemental prints of Standard Construction Drawings on the Title Sheet.

ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS:

The rounded corners shown on the Typical Section, applies to all cross sections even though otherwise shown on these plans.

BUTT JOINTS:

Butt joints at asphalt roadways and asphalt driveways shall be sawed or planed to a depth of not less than 1". Item 407, Tack Coat shall be applied to the exposed edge of the existing pavement at a rate of 0.075 Gal./S.Y.

DRAIN TILE:

The Contractor shall be responsible for damage to existing drain tile or storm sewers which may occur during construction and shall replace them at no additional cost to the county.

WORK LIMITS:

Zones extend laterally to the existing roadway right-of-way line of Kill Road.
Work limits on this project begin at Station 6+00 and end at Station 27+41.43.

Zones extend laterally to the existing roadway right-of-way line of State Road.
Work limits on this project begin at Station 97+50 and end at Station 102+50.

SIGNS AND LIGHTS AT ROAD INTERSECTIONS:

The contractor, in addition to the general requirements of Item 614, Maintaining Traffic, shall perform the following:

Provide, erect and maintain standard 48" x 30" size "Road Construction, Local Traffic Maintained" signs, on barricades with lights at the following locations:

- 1.) Kill Road @ Landeck ~ North Bound
- 2.) Kill Road @ Station 6+00 ~ North Bound
- 3.) Kill Road @ State Road ~ South Bound
- 4.) State Road @ Becker Road ~ East Bound
- 5.) State Road @ Station 97+50 ~ East Bound
- 6.) State Road @ Sharf Road ~ West Bound
- 7.) State Road @ Station 102+50 ~ West Bound

Signs and barricades for "Road Construction, Local Traffic Maintained" signs shall be as detailed in the Ohio Manual of Uniform Traffic Control Devices (MUTCD). Standard (as per MUTCD) "Uneven Pavement" signs shall be placed at either end of the project when uneven pavement is left overnight. If any lanes are closed overnight, proper signs, barricades and barrels with lights shall be placed to channelize traffic per MUTCD. If flaggers are used, proper signs shall be provided.

Payment for providing, erecting, maintaining, and removing lights, signs, barricades and sign supports, and for flaggers, shall be included in the lump sum price bid for Item 614, Maintaining Traffic along with the temporary work zone markings and signs items listed above.

MAINTAINING TRAFFIC:

Traffic shall be maintained at all times to all businesses and the residence located on the portion of North Kill Road being reconstructed, by use of existing pavement, use of completed pavement, or use of traffic compacted surface (Type A or Type B).

TRAFFIC SIGNS:

All permanent traffic signs will be relocated / installed by the Allen County Engineer.

PAVEMENT MARKINGS:

All pavement markings shall be installed by the Allen County Engineer. Work zone marking signs shall not be removed until temporary or permanent pavement markings are in place.

CENTERLINE REFERENCES:

All station references and distances left or right are calls from the centerline of construction, which is also the proposed centerline of North Kill Road (section line) and also the proposed centerline of State Road.

REVIEW OF DRAINAGE FACILITIES:

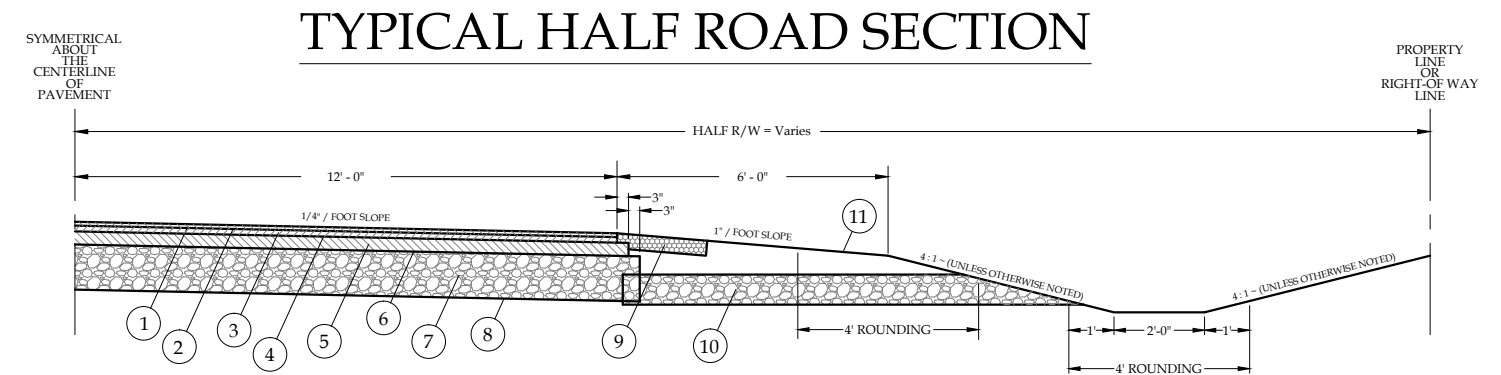
Before any work is started on the project, and again before final acceptance by the County, representatives of the County, and Contractor, along with local representatives, shall make an inspection of the existing sewers, catch basins and manholes within the work limits which are to remain in service and which may be affected by the work. The condition of the existing conduits and their appurtenances shall be determined from field observations.

MAINTENANCE OF STORM SEWER FLOW:

The contractor shall conduct his operations so as to maintain at all times storm sewer flow through existing facilities to remain in place.

ELEVATION DATUM:

All elevations are based on N.A.V.D. 88 datum.



TYPICAL HALF-SECTION

MINIMUM PAVEMENT COMPOSITION FOR FLEXIBLE PAVEMENT

- 1) ITEM 448 ~ 1 1/4" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, PG70-22M
- 2) ITEM 407 ~ TACK COAT FOR SURFACE COURSE, 0.04 GAL./S.Y.
- 3) ITEM 448 ~ 1 1/2" ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, PG64-22
- 4) ITEM 407 ~ TACK COAT FOR INTERMEDIATE COURSE, 0.04 GAL./S.Y.
- 5) ITEM 301 ~ 3 1/2" ASPHALT CONCRETE, BASE COURSE, PG64-22
- 6) ITEM 408 ~ BITUMINOUS PRIME COAT, 0.50 GAL. PER SQ. YD.
- 7) ITEM 304 ~ 12" AGGREGATE BASE
- 8) ITEM 204 ~ SUBGRADE COMPACTION
- 9) ITEM 411 ~ STABILIZED CRUSHED AGGREGATE, 2'-0" WIDE X 4" THICK, BOTH SIDES OF ROADWAY.
- 10) ITEM 605 ~ 8" AGGREGATE DRAINS (12" WIDE SPACED 50' ON EACH SIDE & 25' FROM THE NEAREST DRAIN ON THE OPPOSITE SIDE).
- 11) ITEM 659 ~ SEEDING AND MULCHING, USE SEEDING MIXTURE APPROVED BY THE ALLEN COUNTY ENGINEER.

THE ITEMS LISTED ABOVE REFER TO THE MATERIAL & CONSTRUCTION SPECIFICATIONS FOUND IN THE LATEST EDITION OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION & MATERIALS MANUAL, UNLESS OTHERWISE NOTED.

ALLEN COUNTY ENGINEER BRION E. RHODES, P.E., P.S.			
GENERAL NOTES & TYPICAL SECTIONS			
KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT			
SECTION 01.135, R4E, MARRON TOWNSHIP, ALLEN COUNTY, OHIO SECTION 34.125, R4E, WASHINGTON TOWNSHIP, VAN WERT COUNTY, OHIO			
DRAWN BY: Z.J.G.	CHECKED BY: D.R.L.	DESIGNED BY:	DATE: 10-1-2015

GENERAL SUMMARY

Computations By:
Initials: ZJG Date: 9-21-2015
Computations Checked By:
Initials Date

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT		OHIO
ALLEN COUNTY, OHIO & VAN WERT COUNTY, OHIO		FHWA REGION 5
		FEDERAL PROJECT

3
57

SHEET NUMBER											BID ITEM REFERENCE NUMBER	ODOT ITEM REFERENCE NUMBER	KILL ROAD ESTIMATED QUANTITY	BID LUMP SUM QUANTITY	PROJECT ENGINEER'S ESTIMATED QUANTITY	GRAND TOTAL PROJECT QUANTITY	BID ITEM UNIT	DESCRIPTION
4	5	6	7	8	9	10	11	12	13	14								
KILL ROAD 4-00 to 4-00	KILL ROAD 4-00 to 11-30	KILL ROAD 11-30 to 18-00	KILL ROAD 18-00 to 27-30	KILL ROAD 27-30 to 27-45	KILL ROAD 27-45 to 27-45	STATE ROAD 27-45 to 27-45	STORM SEWER OUTLET 1000-00 to 1000-00	STORM SEWER OUTLET 1000-00 to 1000-00	STORM SEWER OUTLET 1000-00 to 1000-00	STORM SEWER OUTLET 1000-00 to 1000-00								
0	0	0	0	0	0	0	0	0	0	0	1	201	0	1	0	1	LUMP	CLEARING & GRUBBING
676	820	821	829	884	653	661	0	0	0	0	2	202	5344	0	0	5344	S.Y.	FULL DEPTH PAVEMENT REMOVAL ~ ASPHALT
0	0	30	0	0	0	0	0	0	0	0	3	202	30	0	0	30	L.F.	PIPE REMOVED ~ 24" OR UNDER
1	1	2	0	0	0	0	0	0	0	0	4	202	4	0	0	4	EACH	CATCH BASIN REMOVED
24	0	0	0	0	0	39	0	0	0	0	5	255	63	0	0	63	L.F.	PAVEMENT SAWING ~TERMINI (KILL ROAD @ STATION 6+00 - STATE ROAD @ STATION 97+50 - STATE ROAD @ STATION 102+50)
1039	993	810	756	665	62	1016	0	0	0	0	6	203	5341	0	0	5341	C.Y.	EXCAVATION
0	8	42	25	42	1	18	0	0	0	0	7	203	136	0	0	136	C.Y.	EMBANKMENT
900	1350	1350	1350	1357	189	1500	0	0	0	0	8	204	7996	0	0	7996	S.Y.	SUB GRADE COMPACTION
0.80	0.80	0.80	0.80	0.80	0.20	0.80	0	0	0	0	9	204	5.0	0	0	5.0	HOURL	PROOF ROLLING
0	0	0	0	0	0	0	0	0	0	0	10	204	0	0	100	100	S.Y.	GEOTEXTILE FABRIC (TENSAR TRIAX TX140/TX160)
0	0	0	0	0	0	0	0	0	0	0	11	203	0	0	100	100	C.Y.	GRANULAR EMBANKMENT
0	0	0	0	0	0	2	0	0	0	0	12	623	2	0	0	2	EACH	MONUMENT BOX ASSEMBLY RESET
0	0	0	0	1	0	0	0	0	0	0	13	SPECIAL	1	0	0	1	EACH	MAILBOX REMOVED AND RESET
1226	1519	1687	1545	1783	117	1933	0	0	0	0	14	659	9810	0	0	9810	S.Y.	SEEDING & MULCHING
123	152	169	155	178	12	193	0	0	0	0	15	659	982	0	0	982	S.Y.	REPAIR SEEDING & MULCHING
123	152	169	155	178	12	193	0	0	0	0	16	659	982	0	0	982	S.Y.	INTER SEEDING
136	169	187	172	198	74	116	0	0	0	0	17	659	1052	0	0	1052	C.Y.	TOPSOIL (4" COMPACTED DEPTH)
0.11	0.14	0.15	0.14	0.16	0.01	0.17	0	0	0	0	18	659	0.88	0	0	0.88	TON	COMMERCIAL FERTILIZER (20#/100 S.F.)
0.25	0.31	0.35	0.32	0.37	0.05	0.40	0	0	0	0	19	659	4.05	0	0	4.05	TON	LIME (2 TONS/ACRE)
3.31	4.10	4.55	4.17	4.81	1.80	5.22	0	0	0	0	20	659	27.96	0	0	27.96	M. GALLON	WATER (300 GALLONS/1000 S.F.)
0	0	0	0	0	0	0	0	0	0	0	21	832	0	1	0	1	LUMP	STORM WATER POLLUTION PREVENTION PLAN (S.W.P.P.P.)
0	0	0	0	0	0	0	0	0	0	0	22	832	0	1	0	1	LUMP	EROSION CONTROL
120	180	180	180	180	120	120	0	0	0	0	23	605	1080	0	0	1080	C.Y.	AGGREGATE DRAINS
0	0	0	0	0	0	0	0	0	0	0	24	611	0	0	50	50	L.F.	4" CONDUIT ~ TYPE E
0	0	0	150	125	0	1206	0	0	0	0	25	611	1481	0	0	1481	L.F.	6" CONDUIT ~ TYPE C ~ PERFORATED (707.33)
0	0	0	0	0	0	0	0	0	0	0	26	611	0	0	50	50	L.F.	6" CONDUIT ~ TYPE E
0	0	0	0	0	0	0	0	0	0	0	27	611	0	0	50	50	L.F.	8" CONDUIT ~ TYPE E
0	46	52	50	52	0	0	0	0	0	0	28	611	200	0	0	200	L.F.	8" CONDUIT ~ TYPE B
46	0	0	0	0	0	0	0	0	0	0	29	611	46	0	0	46	L.F.	12" CONDUIT ~ TYPE B
200	450	450	450	450	0	0	0	0	0	0	30	611	2000	0	0	2000	L.F.	12" CONDUIT ~ TYPE C ~ PERFORATED (707.33)
0	0	0	0	0	0	68	0	0	0	0	31	611	68	0	0	68	L.F.	15" CONDUIT ~ TYPE B
2	2	2	2	2	0	4	0	0	0	0	32	611	13	0	0	13	EACH	2-2B CATCH BASIN
79	119	119	119	119	80	81	0	0	0	0	33	301	716	0	0	716	C.Y.	ASPHALT CONCRETE BASE ~ PG 64-22
278	417	417	417	417	278	284	0	0	0	0	34	304	2508	0	0	2508	C.Y.	AGGREGATE BASE
32	48	48	48	48	33	33	0	0	0	0	35	407	290	0	0	290	GALLON	TACK COAT FOR SURFACE COURSE
32	48	48	48	48	33	33	0	0	0	0	36	407	290	0	0	290	GALLON	TACK COAT FOR INTERMEDIATE COURSE
15	22	22	22	22	22	15	0	0	0	0	37	411	140	0	0	140	C.Y.	STABILIZED CRUSHED AGGREGATE BERM
33	50	50	50	50	33	34	0	0	0	0	38	448	300	0	0	300	C.Y.	ASPHALT CONCRETE INTERMEDIATE ~ TYPE 2 ~ PG 64-22
28	41	41	41	41	28	29	0	0	0	0	39	448	249	0	0	249	C.Y.	ASPHALT CONCRETE SURFACE ~ TYPE 1H ~ PG 70-22M
0.11	0.17	0.17	0.17	0.17	0.02	0.18	0	0	0	0	40	410	0	0	100	100	C.Y.	TRAFFIC COMPACTED SURFACE (TYPE A OR TYPE B)
0	0	0	0	0	0	0	0	0	0	0	41	614	0	1	0	1	LUMP	MAINTAINING TRAFFIC
0	0	0	0	0	0	0	0	0	0	0	42	616	0	0	50	50	M. GALLON	WATER
0	0	0	0	0	0	0	0	0	0	0	43	619	0	0	2	2	MONTH	FIELD OFFICE ~ TYPE A
0	0	0	0	0	0	0	0	0	0	0	44	623	0	1	0	1	LUMP	CONSTRUCTION STAKING
0	0	0	0	0	0	0	0	0	0	0	45	624	0	1	0	1	LUMP	MOBILIZATION

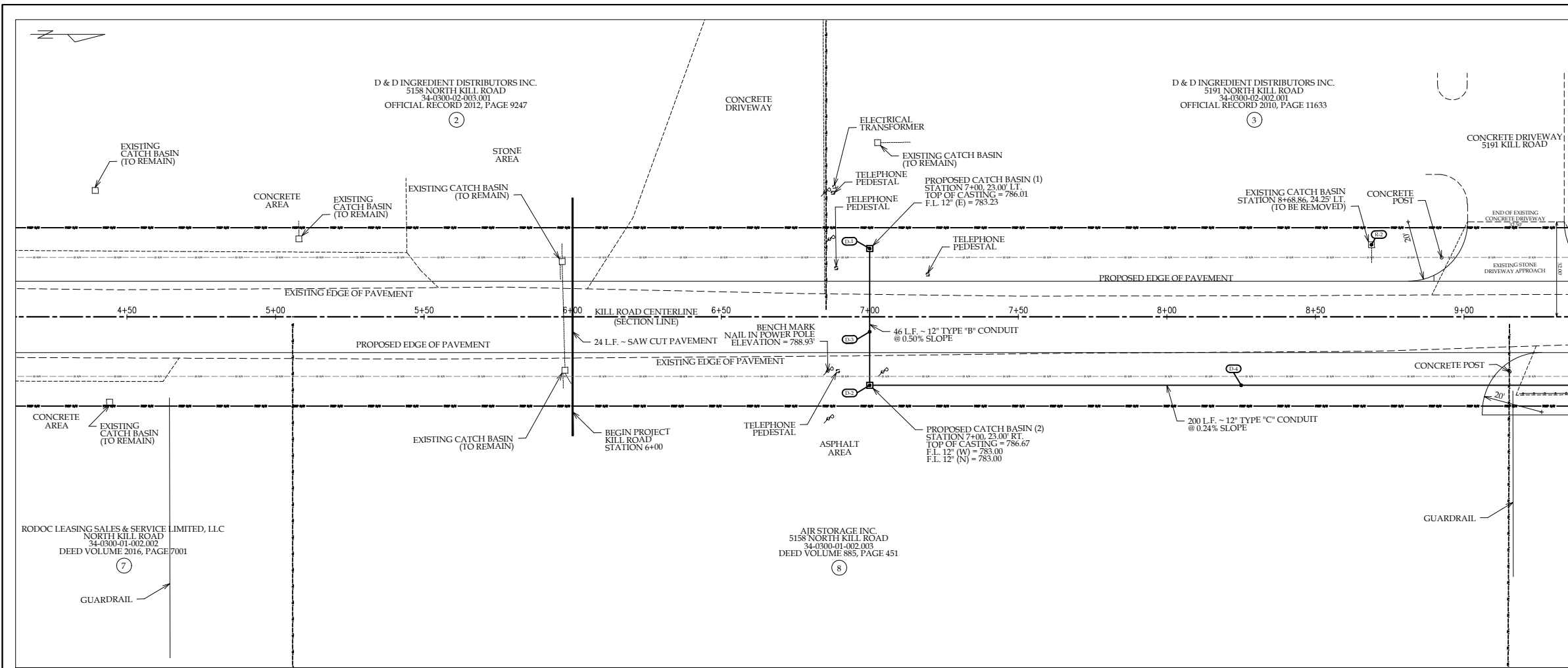
* NOTE *
ALL BID ITEMS ON PAGE 11, PAGE 12, PAGE 13, & PAGE 14 OF THE PLANS FOR THIS PROJECT WERE INSTALLED IN THE FALL OF 2016.
THOSE BID ITEMS WILL NOT SHOW UP ON THE BID FOR THE PROJECT IN THE SUMMER OF 2017.

ALLEN COUNTY ENGINEER
BRION E. RHODES, P.E., P.S.

GENERAL SUMMARY
KILL ROAD RECONSTRUCTION
&
STORM SEWER OUTLET
PROJECT

SECTION 03, T3S, R4E, MARION TOWNSHIP, ALLEN COUNTY, OHIO
SECTION 34, T2S, R4E, WASHINGTON TOWNSHIP, VAN WERT COUNTY, OHIO

DRAWN BY: Z.J.G.	CHECKED BY: D.R.L.	DESIGNED BY:	DATE: 10-1-2015
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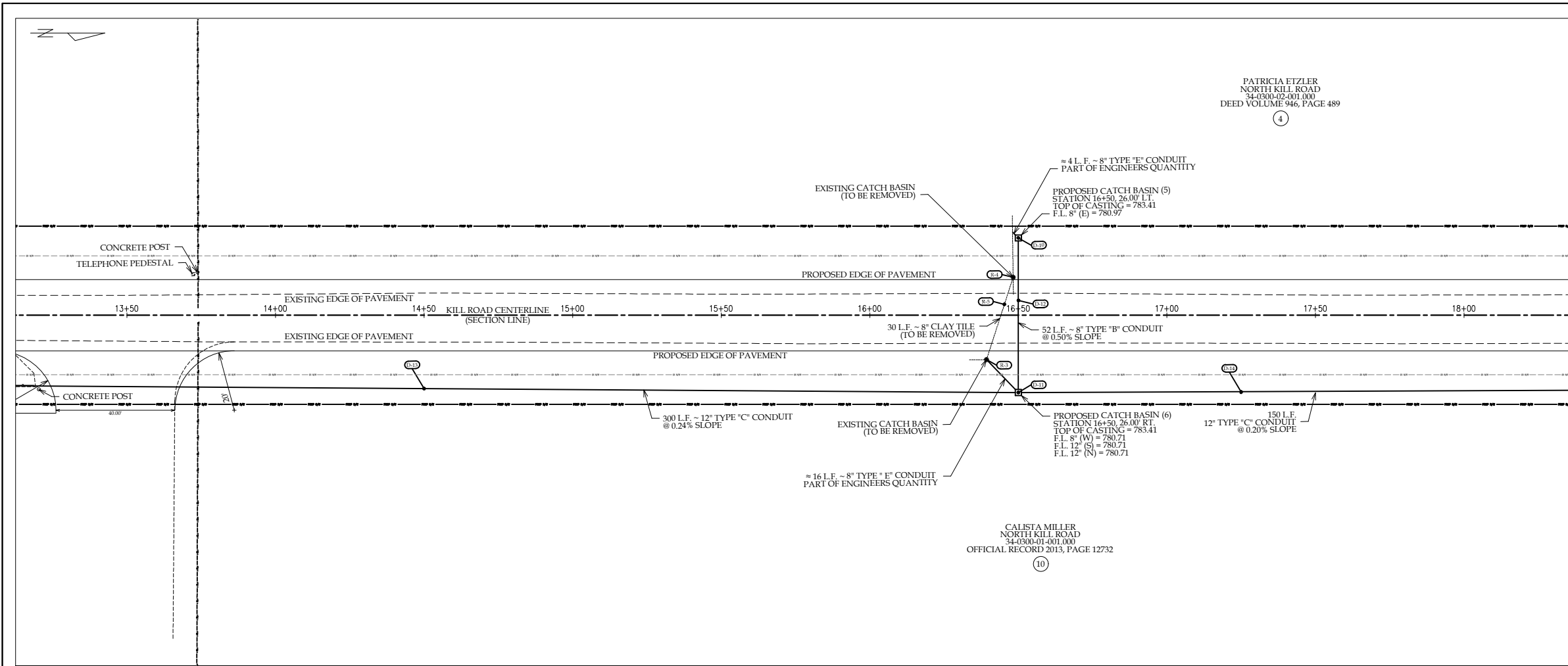


ESTIMATED QUANTITIES

ITEM	QUANTITY	UNIT	AMOUNT	AMOUNT
SEEDING AND MULCHING			1226.01	1226.01
411 STABILIZED CRUSHED AGGREGATE BERM			14.81	14.81
448 ASPHALT CONCRETE SURFACE COURSE TYPE III, PG 70-22M			27.78	27.78
407 TACK COAT (SURFACE COURSE)			32.00	32.00
448 ASPHALT CONCRETE INTERMEDIATE COURSE TYPE 2, PG 64-22			33.33	33.33
407 TACK COAT (INTERMEDIATE COURSE)			32.00	32.00
301 ASPHALT CONCRETE BASE			79.40	79.40
304 AGGREGATE BASE			277.78	277.78
605 AGGREGATE DRAINS			120	120
611 15\" CONDUIT TYPE C			0	0
611 12\" CONDUIT TYPE C			200	200
611 15\" CONDUIT TYPE B			0	0
611 12\" CONDUIT TYPE B			46	46
611 8\" CONDUIT TYPE B			0	0
611 CATCH BASIN 2-2B			2	2
202 PIPE REMOVED			0	0
202 CATCH BASIN REMOVED			1	1
202 PAVEMENT REMOVED			675.66	675.66
REF. NUM.	STATION TO STATION	SIDE	TOTALS	
NONE	6+00 TO 9+00	ALL		
R-1	8+68.86 TO 7+00	LEFT		
D-1	7+00	LEFT		
D-2	7+00	RIGHT		
D-3	7+00	LEFT - RIGHT		
D-4	7+00 TO 9+00	RIGHT		
NONE	6+00 TO 9+00	BOTH		
NONE	6+00 TO 9+00	ALL		
NONE	6+00 TO 9+00	ALL		
NONE	6+00 TO 9+00	ALL		
NONE	6+00 TO 9+00	ALL		
NONE	6+00 TO 9+00	ALL		
NONE	6+00 TO 9+00	ALL		
NONE	6+00 TO 9+00	BOTH		

STATION	775	780	785	790	795	800	805	810
25								810
4+50	788.3						788.28	788.26
4+75							788.23	788.21
5+00							788.18	788.16
5+25							788.13	788.11
5+50							788.08	788.06
5+75							788.03	788.01
6+00							787.98	787.96
6+25							787.93	787.91
6+50							787.88	787.86
6+75							787.83	787.81
7+00							787.78	787.76
7+25							787.73	787.71
7+50							787.68	787.66
7+75							787.63	787.61
8+00							787.58	787.56
8+25							787.53	787.51
8+50							787.48	787.46
8+75							787.43	787.41
9+00							787.38	787.36
9+							787.33	787.31

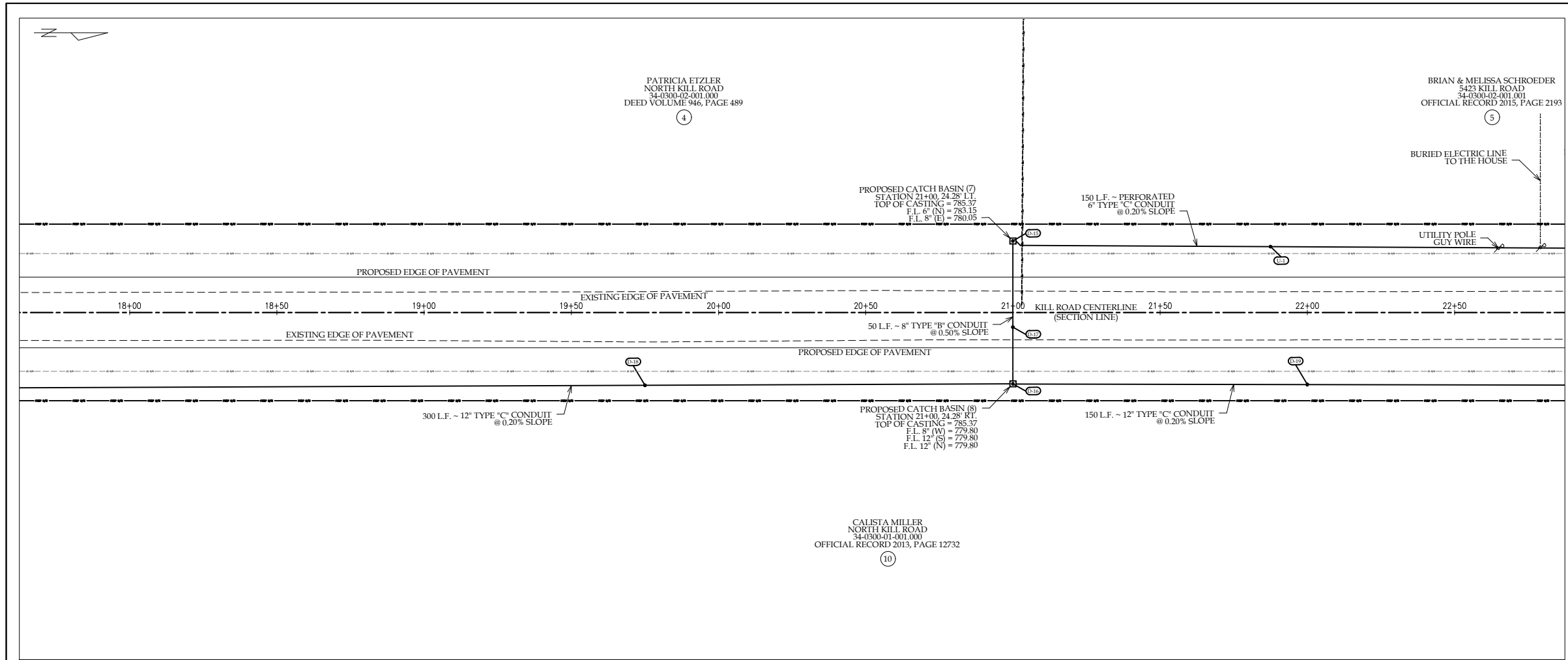
KILL ROAD RECONSTRUCTION AND STORM SEWER OUTLET PROJECT ~ KILL ROAD ~ STATION 4+50 TO STATION 9+00



Station	775	780	785	790	795	800	805	810
13+25	786.8	786.46	786.43	786.41	786.38	786.36	786.33	786.31
13+50	786.6	786.28	786.26	786.23	786.21	786.18	786.16	786.13
13+75	786.6	786.1	786.0	785.9	785.8	785.8	785.85	785.93
14+00	786.5	786.0	785.98	785.96	785.93	785.91	785.88	785.86
14+25	786.5	786.0	785.98	785.96	785.93	785.91	785.88	785.86
14+50	786.3	786.0	785.98	785.96	785.93	785.91	785.88	785.86
14+75	786.2	786.0	785.98	785.96	785.93	785.91	785.88	785.86
15+00	786.1	786.0	785.98	785.96	785.93	785.91	785.88	785.86
15+25	786.0	786.0	785.98	785.96	785.93	785.91	785.88	785.86
15+50	785.9	786.0	785.98	785.96	785.93	785.91	785.88	785.86
15+75	785.8	786.0	785.98	785.96	785.93	785.91	785.88	785.86
16+00	785.8	786.0	785.98	785.96	785.93	785.91	785.88	785.86
16+25	785.8	786.0	785.98	785.96	785.93	785.91	785.88	785.86
16+50	785.8	786.0	785.98	785.96	785.93	785.91	785.88	785.86
16+75	785.8	786.0	785.98	785.96	785.93	785.91	785.88	785.86
17+00	785.9	786.0	785.98	785.96	785.93	785.91	785.88	785.86
17+25	786.0	786.0	785.98	785.96	785.93	785.91	785.88	785.86
17+50	786.3	786.0	785.98	785.96	785.93	785.91	785.88	785.86
17+75	786.5	786.0	785.98	785.96	785.93	785.91	785.88	785.86
18+00	786.9	786.0	785.98	785.96	785.93	785.91	785.88	785.86
18+25	787.3	786.0	785.98	785.96	785.93	785.91	785.88	785.86

ESTIMATED QUANTITIES

REF. NUM.	DESCRIPTION	QUANTITY	UNIT	TOTAL
659	SEEDING AND MULCHING	1687.21	SQ. FT.	1687.21
411	STABILIZED CRUSHED AGGREGATE BERM	22.22	CU. YD.	22.22
448	ASPHALT CONCRETE SURFACE COURSE TYPE III, PG 70-22M	41.66	CU. YD.	41.66
407	TACK COAT (SURFACE COURSE)	48.00	CU. YD.	48.00
448	ASPHALT CONCRETE INTERMEDIATE COURSE TYPE 2, PG 64-22	50.00	CU. YD.	50.00
407	TACK COAT (INTERMEDIATE COURSE)	48.00	CU. YD.	48.00
301	ASPHALT CONCRETE BASE	119.10	CU. YD.	119.10
304	AGGREGATE BASE	416.67	CU. YD.	416.67
605	AGGREGATE DRAINS	180	LINEAL FT.	180
611	15" CONDUIT TYPE C	0	LINEAL FT.	0
611	12" CONDUIT TYPE C	450	LINEAL FT.	450
611	15" CONDUIT TYPE B	0	LINEAL FT.	0
611	12" CONDUIT TYPE B	0	LINEAL FT.	0
611	8" CONDUIT TYPE B	52	LINEAL FT.	52
611	CATCH BASIN 5	2	NO.	2
202	PIPE REMOVED	30	LINEAL FT.	30
302	CATCH BASIN REMOVED	2	NO.	2
302	PAVEMENT REMOVED	821.17	SQ. YD.	821.17
	TOTALS			



ESTIMATED QUANTITIES

ITEM	QUANTITY	UNIT	PRICE	TOTAL
SEEDING AND MULCHING			1543.24	1543.24
411 STABILIZED CRUSHED AGGREGATE BERM			22.22	22.22
485 ASPHALT CONCRETE SURFACE COURSE TYPE 1H, PG 70-22M			41.66	41.66
407 TACK COAT (SURFACE COURSE)			48.00	48.00
448 ASPHALT CONCRETE INTERMEDIATE COURSE TYPE 2, PG 64-22			50.00	50.00
407 TACK COAT (INTERMEDIATE COURSE)			48.00	48.00
301 ASPHALT CONCRETE BASE			119.10	119.10
304 AGGREGATE BASE			416.67	416.67
605 AGGREGATE DRAINS			180	180
611 15" CONDUIT TYPE C			0	0
611 12" CONDUIT TYPE C	400		50	450
611 15" CONDUIT TYPE B			0	0
611 12" CONDUIT TYPE B			0	0
611 8" CONDUIT TYPE B	50		50	50
611 6" CONDUIT TYPE C	150		150	150
611 CATCH BASIN 2'x3'	2			2
202 PIPE REMOVED			0	0
202 CATCH BASIN REMOVED			0	0
202 PAVEMENT REMOVED	828.67			828.67
TOTALS				

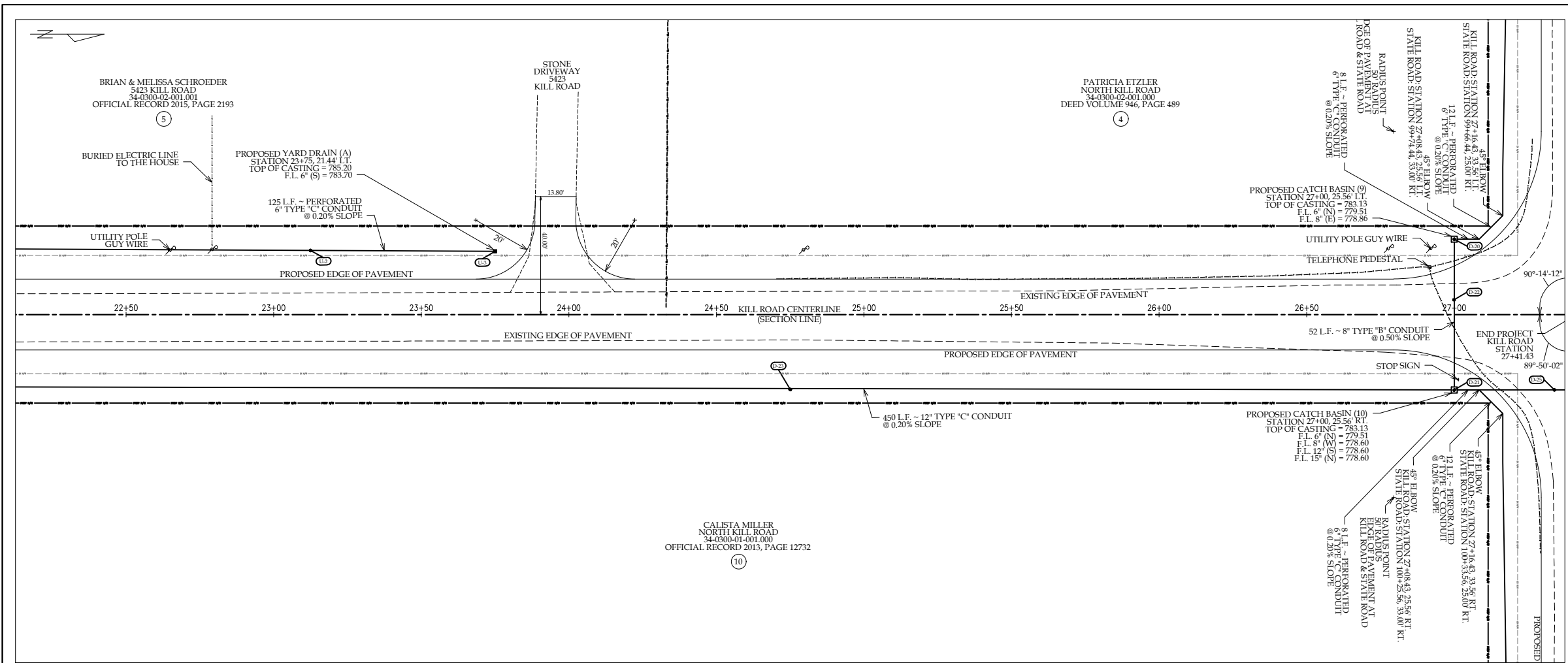
STATION	ELEVATION	REMARKS
810	810	
805	786.77, 786.92, 787.06, 787.21, 787.35, 787.50, 787.63, 787.74, 787.83, 787.89, 787.93, 787.95, 787.94, 787.92, 787.88, 787.84, 787.80, 787.76, 787.72, 787.68, 787.64, 787.60, 787.56, 787.52, 787.48, 787.44, 787.40, 787.36, 787.32, 787.28, 787.24, 787.20, 787.16, 787.12, 787.08, 787.04, 787.00, 786.96, 786.92, 786.88	
800	800	
795	795	PVI STA: 19+00.00 PVI ELEV: 788.08 K: 67.57 LVC: 100.00 HIGH PT. STA: 19+28.38 HIGH PT. ELEV: 787.95
790	790	PROPOSED CATCH BASIN (8) STATION 21+00.24 28' RL TOP OF CASTING = 785.37 F.L. 8" (W) = 779.80 F.L. 12" (S) = 779.80 F.L. 12" (N) = 779.80
785	785	PROPOSED KILL ROAD CENTERLINE GRADE
780	780	EXISTING KILL ROAD CENTERLINE GRADE
775	775	

KILL ROAD RECONSTRUCTION AND STORM SEWER OUTLET PROJECT ~ KILL ROAD ~ STATION 18+00 TO STATION 22+50

**KILL ROAD RECONSTRUCTION
&
STORM SEWER OUTLET
PROJECT**

OHIO
FHWA REGION **5**
DRAWN BY: Z.J.G. CHECKED BY: D.R.L. DESIGNED BY: Z.J.G. DATE: 8-11-2015 FEDERAL PROJECT

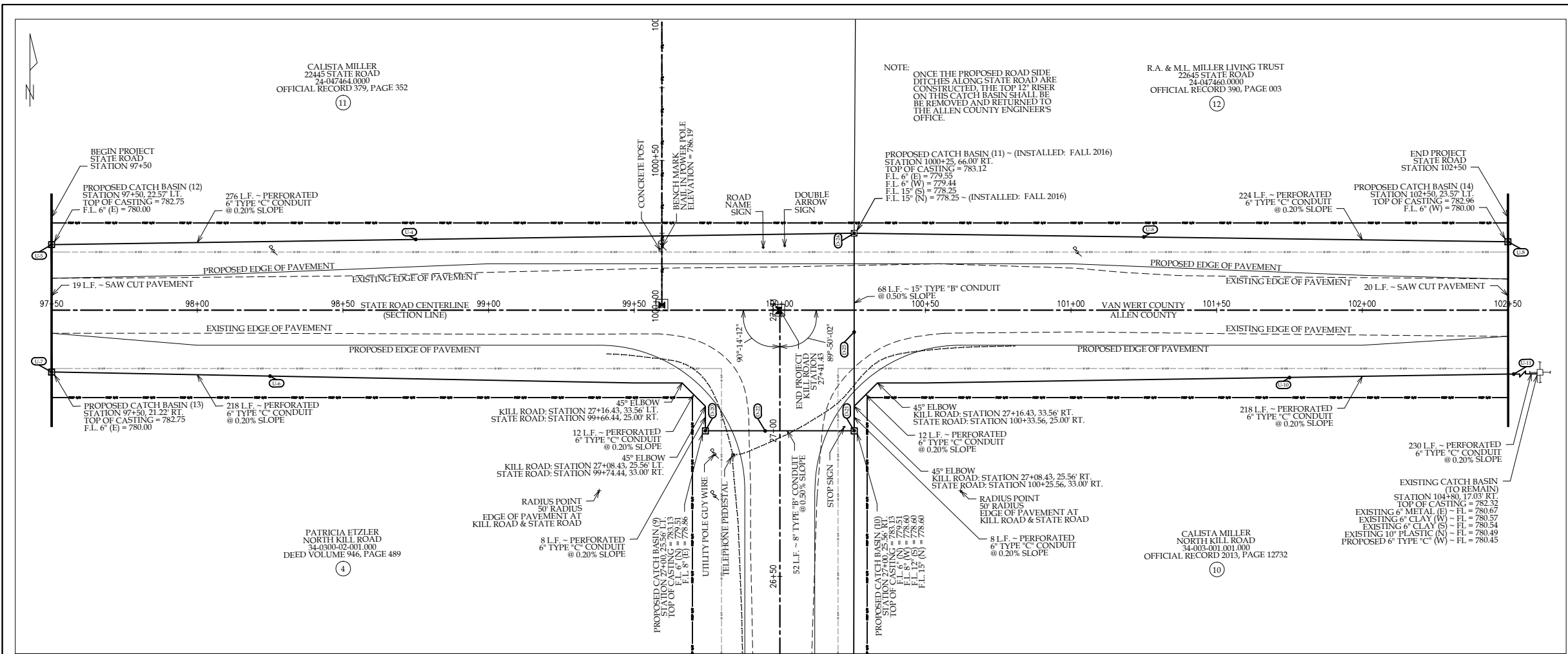
8
57



Station	810	805	800	795	790	785	780	775
22+50		787.00						
22+75		786.96						
23+00		786.92						
23+25		786.88						
23+50		786.84						
23+75		786.80						
24+00		786.76						
24+25		786.72						
24+50		786.68						
24+75		786.64						
25+00		786.60						
25+25		786.56						
25+50		786.52						
25+75		786.48						
26+00		786.44						
26+25		786.40						
26+50		786.36						
26+75		786.32						
27+00		786.28						
27+25		786.24						
27+50		786.20						
27+75		786.16						
28+00		786.12						
28+25		786.08						
28+50		786.04						
28+75		786.00						
29+00		785.96						
29+25		785.92						
29+50		785.88						
29+75		785.84						
30+00		785.80						
30+25		785.76						
30+50		785.72						
30+75		785.68						
31+00		785.64						
31+25		785.60						
31+50		785.56						
31+75		785.52						
32+00		785.48						
32+25		785.44						

ESTIMATED QUANTITIES

REF. NUM.	DESCRIPTION	QUANTITY	UNIT	TOTALS
599	SEEDING AND MULCHING			1783.36
411	STABILIZED CRUSHED AGGREGATE BERM	22.22	sq yd	22.22
488	ASPHALT CONCRETE SURFACE COURSE TYPE 1H, PG 70-22M	41.66	sq yd	41.66
407	TACK COAT (SURFACE COURSE)	48.00	sq yd	48.00
448	ASPHALT CONCRETE INTERMEDIATE COURSE TYPE 2, PG 64-22	50.00	sq yd	50.00
407	TACK COAT (INTERMEDIATE COURSE)	48.00	sq yd	48.00
301	ASPHALT CONCRETE BASE	119.10	sq yd	119.10
304	AGGREGATE BASE	416.67	sq yd	416.67
505	AGGREGATE DRAINS	180	lin ft	180
611	15" CONDUIT TYPE C			0
611	12" CONDUIT TYPE C	450	lin ft	450
611	15" CONDUIT TYPE B			0
611	12" CONDUIT TYPE B			0
611	8" CONDUIT TYPE B	52	lin ft	52
611	6" CONDUIT TYPE C	125	lin ft	125
611	CATCH BASIN	2	units	2
611	YARD DRAIN 1' X 1'	1	units	1
2-2B	202 PIPE REMOVED	0	lin ft	0
302	CATCH BASIN REMOVED	0	units	0
302	PAVEMENT REMOVED	884.47	sq yd	884.47
	TOTALS			



REF. NUM.	STATION TO STATION	SIDE	ESTIMATED QUANTITIES	TOTALS
659			SEEDING AND MULCHING	1933.41
411			STABILIZED CRUSHED AGGREGATE BERM	14.83
448			ASPHALT CONCRETE SURFACE COURSE TYPE 1H, PG 70-22M	28.39
407			TACK COAT (SURFACE COURSE)	32.74
448			ASPHALT CONCRETE INTERMEDIATE COURSE TYPE 2, PG 64-22	34.07
407			TACK COAT (INTERMEDIATE COURSE)	32.74
301			ASPHALT CONCRETE BASE	81.16
204			AGGREGATE BASE	285.93
605			AGGREGATE DRAINS	120
611			15" CONDUIT TYPE C	0
611			12" CONDUIT TYPE C	0
611			15" CONDUIT TYPE B	68
611			12" CONDUIT TYPE B	0
611			8" CONDUIT TYPE B	0
611			6" CONDUIT TYPE C	1206
611			CATCH BASIN 24" x 36"	4
202			PIPE REMOVED	0
302			CATCH BASIN REMOVED	0
202			PAVEMENT REMOVED	660.65
			TOTALS	

REF. NUM.	STATION TO STATION	SIDE	ESTIMATED QUANTITIES	TOTALS
805				805
800				800
795				795
790				790
785				785
780				780
775				775
770				770
785.0				785.0
785.1				785.1
785.1				785.1
785.0				785.0
785.3				785.3
785.3				785.3
785.3				785.3
785.2				785.2
785.1				785.1
785.3				785.3
785.4				785.4
785.6				785.6
785.6				785.6
785.6				785.6
785.7				785.7
785.6				785.6
785.5				785.5
785.6				785.6
785.5				785.5
785.3				785.3
785.2				785.2

KILL ROAD RECONSTRUCTION AND STORM SEWER OUTLET PROJECT ~ STATE ROAD ~ STATION 97+50 TO STATION 102+50

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT

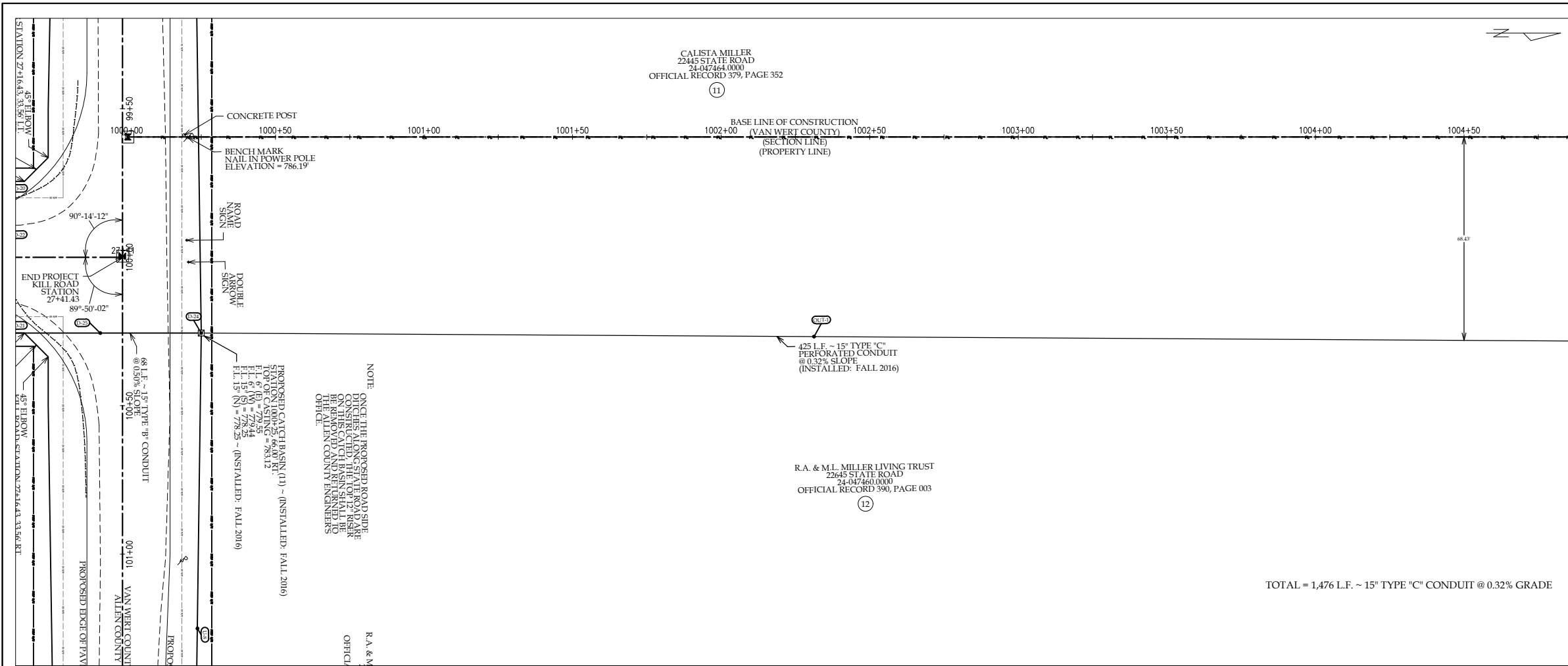
OHIO

FHWA REGION 5

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DRAWN BY: Z.J.G. CHECKED BY: D.R.L. DESIGNED BY: Z.J.G. DATE: 8-11-2015 FEDERAL PROJECT



ESTIMATED QUANTITIES

STATION TO STATION	QUANTITY
1000+00 TO 1004+50	425 L.F. 15" TYPE 'C' PERFORATED CONDUIT @ 0.32% GRADE
TOTAL = 1,476 L.F. ~ 15" TYPE 'C' CONDUIT @ 0.32% GRADE	

REF. NUM.	DESCRIPTION	QUANTITY
611	15" CONDUIT TYPE C	425
611	12" CONDUIT TYPE C	0
611	15" CONDUIT TYPE B	0
611	8" CONDUIT TYPE B	0
611	CATCH BASIN 2-2B	0
	SIDE: RIGHT	
	STATION TO STATION: 1000+25 TO 1004+50	
TOTALS		

KILL ROAD RECONSTRUCTION AND STORM SEWER OUTLET PROJECT ~ STORM SEWER OUTLET ~ STATION 1000+00 TO STATION 1004+50

CALISTA MILLER
22445 STATE ROAD
240474640000
OFFICIAL RECORD 379, PAGE 352

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BASE LINE OF CONSTRUCTION
(VAN WERT COUNTY) 1007+00
(SECTION LINE)
(PROPERTY LINE)

OUTLET

450 L.F. ~ 15" TYPE "C"
PERFORATED CONDUIT
@ 0.32% SLOPE
(INSTALLED: FALL 2016)

R.A. & M.L. MILLER LIVING TRUST
22645 STATE ROAD
24047600000
OFFICIAL RECORD 379, PAGE 003

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TOTAL = 1,476 L.F. ~ 15" TYPE "C" CONDUIT @ 0.32% GRADE

795																								795	
790																									790
785																									785
780																									780
775																									775
770																									770
765																									765
760																									760
	+25	1004+50	1004+75	1005+00	1005+25	1005+50	1005+75	1006+00	1006+25	1006+50	1006+75	1007+00	1007+25	1007+50	1007+75	1008+00	1008+25	1008+50	1008+75	1009+00	1009				

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT					OHIO FHWA REGION 5	12 57
DRAWN BY: Z.J.G.	CHECKED BY: D.R.L.	DESIGNED BY: Z.J.G.	DATE 8-11-2015	FEDERAL PROJECT		

ESTIMATED QUANTITIES

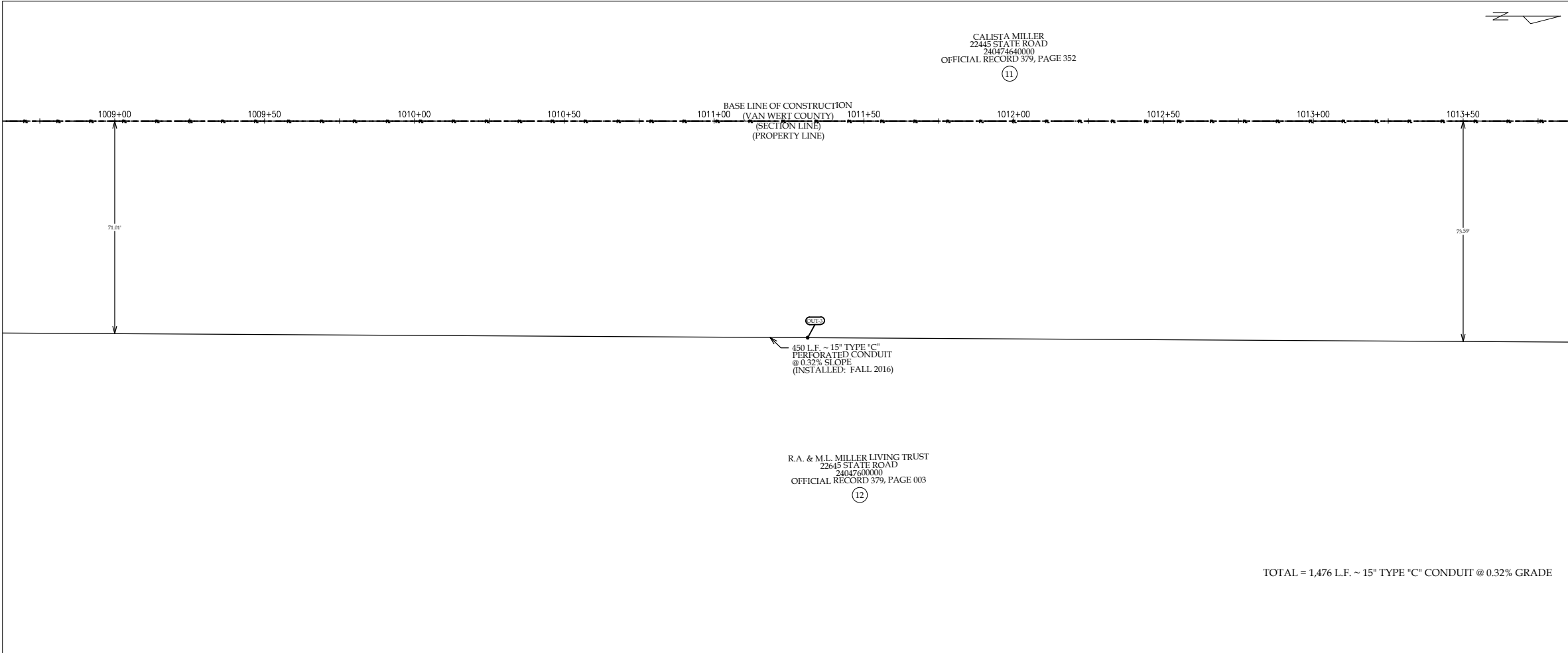
		611 15" CONDUIT TYPE C	450					450
		611 12" CONDUIT TYPE C						0
		611 15" CONDUIT TYPE B						0
		611 8" CONDUIT TYPE B						0
		611 CATCH BASIN 2-2B						0
	SIDE	RIGHT						
	STATION TO STATION	1004+50 TO 1009+00						
	REF. NUM.	OUT 2						
								TOTALS

CALISTA MILLER
 22445 STATE ROAD
 24047640000
 OFFICIAL RECORD 379, PAGE 352

KILL ROAD RECONSTRUCTION
 &
 STORM SEWER OUTLET
 PROJECT

OHIO	13
FHWA REGION	5
FEDERAL PROJECT	57

DRAWN BY: Z.J.G. CHECKED BY: D.R.L. DESIGNED BY: Z.J.G. DATE: 8-11-2015



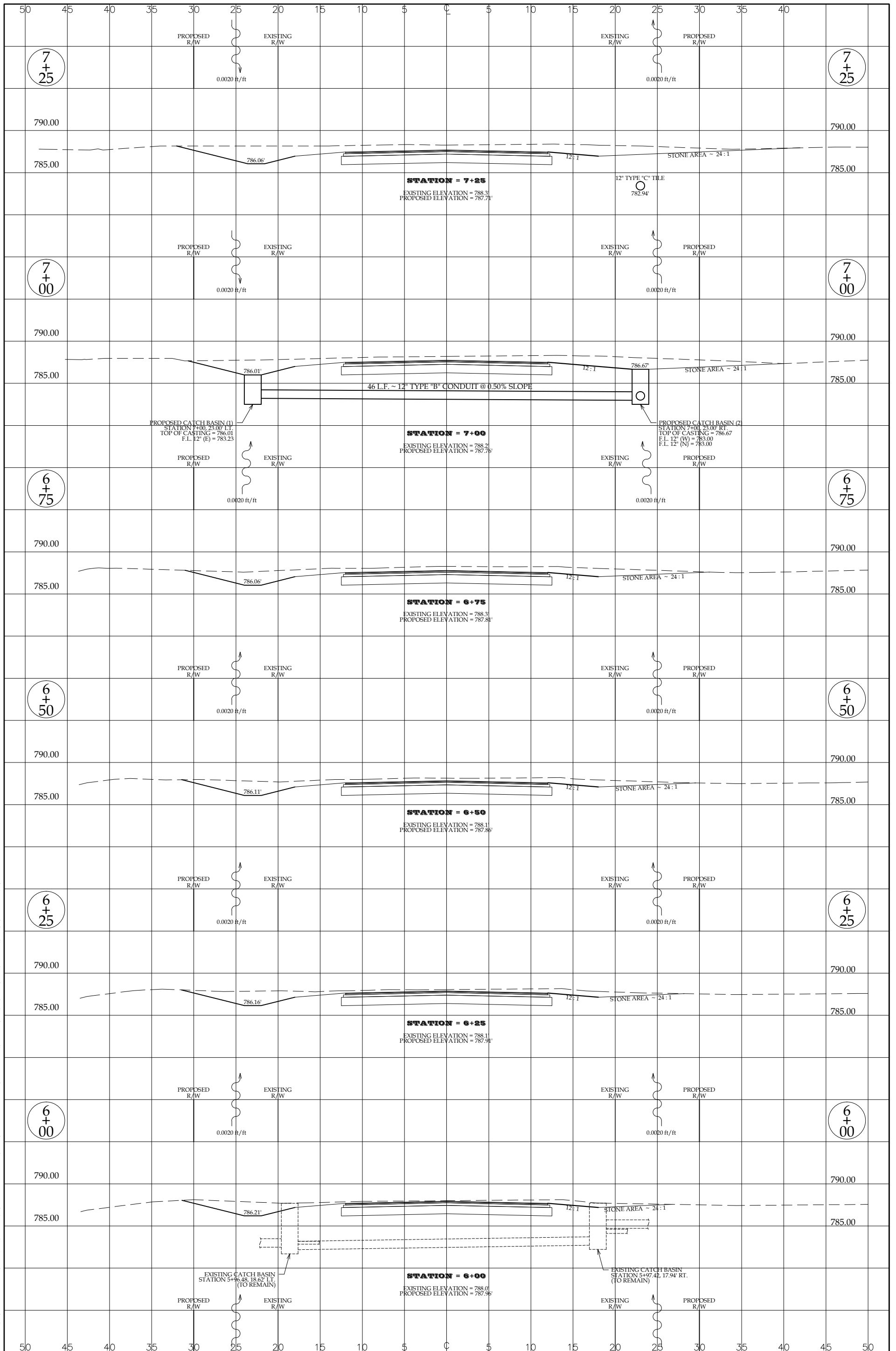
TOTAL = 1,476 L.F. ~ 15" TYPE "C" CONDUIT @ 0.32% GRADE

ESTIMATED QUANTITIES

795																						795
790																						790
785																						785
780																						780
775																						775
770																						770
765																						765
760																						760
+75	1009+00	1009+25	1009+50	1009+75	1010+00	1010+25	1010+50	1010+75	1011+00	1011+25	1011+50	1011+75	1012+00	1012+25	1012+50	1012+75	1013+00	1013+25	1013+50	1013		

611	15" CONDUIT	TYPE C																										450
611	12" CONDUIT	TYPE C																										0
611	15" CONDUIT	TYPE B																										0
611	8" CONDUIT	TYPE B																										0
611	CATCH BASIN	2-2B																										0
	SIDE																											
	STATION TO STATION																											
REF. NUM.																												
																												TOTALS

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ KILL ROAD ~ STATION 6+00 TO STATION 7+25



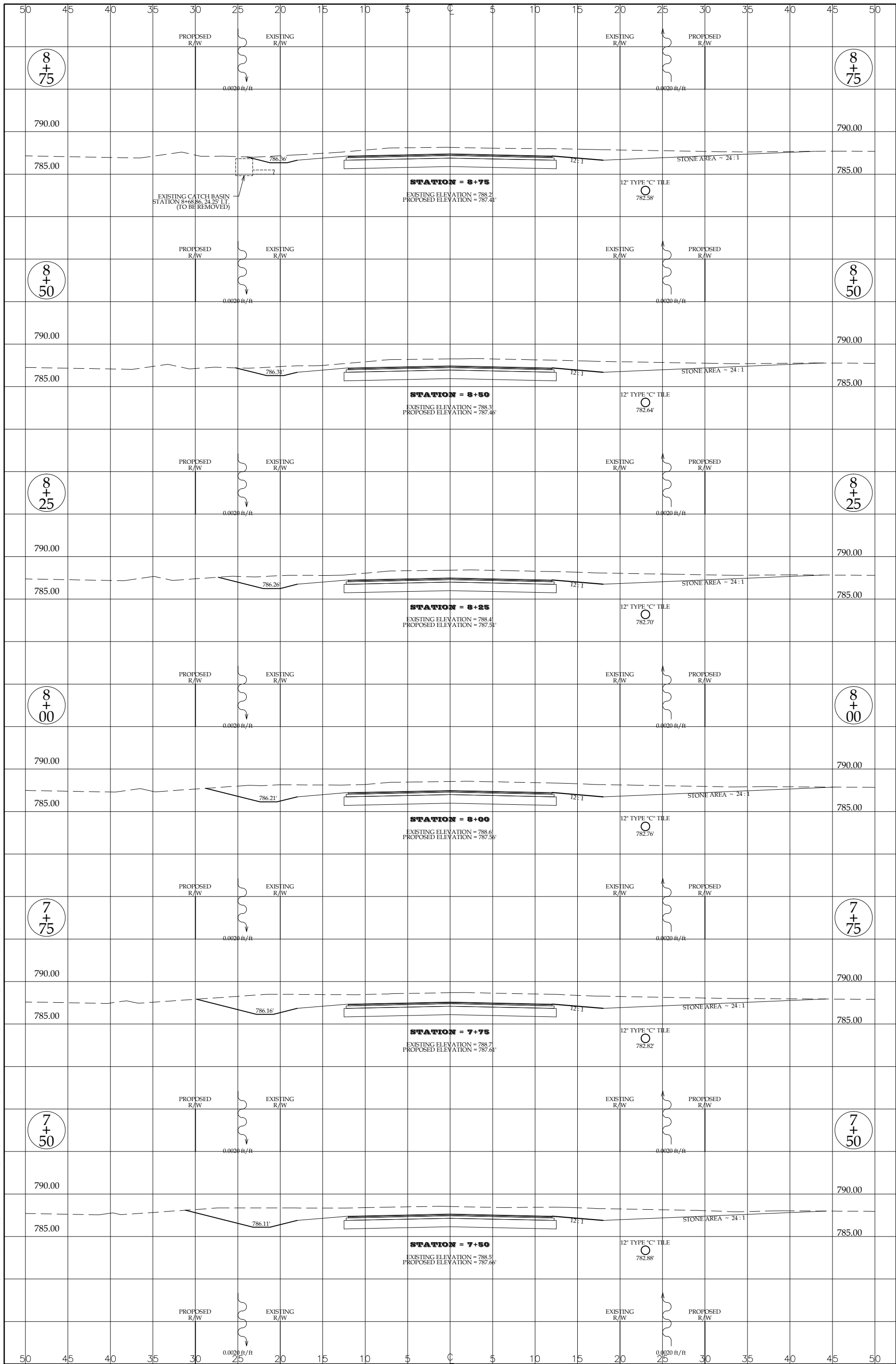
SHEET TOTALS

CUT VOLUME = 10,402.76 cubic feet = 385.29 cubic yards
 FILL VOLUME = 0.00 cubic feet = 0.00 cubic yards
 SEEDING AREA = 4,674.29 square feet = 519.37 square yards

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT	
FIWA REGION	5
FEDERAL PROJECT	57

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KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ KILL ROAD ~ STATION 7+50 TO STATION 8+75



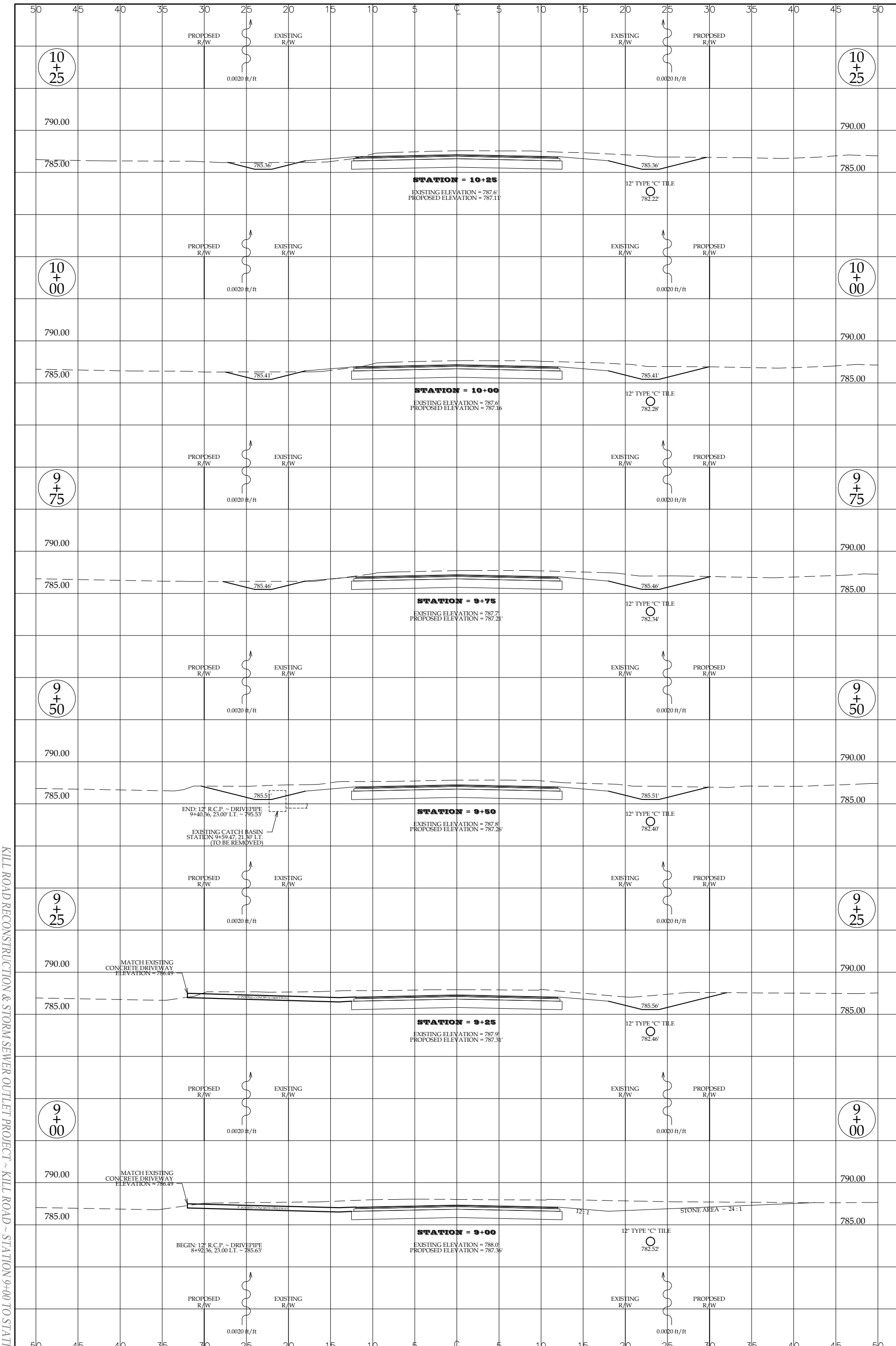
SHEET TOTALS

CUT VOLUME = 15,565.80 cubic feet = 576.51 cubic yards
 FILL VOLUME = 0.00 cubic feet = 0.00 cubic yards
 SEEDING AREA = 5,451.76 square feet = 605.75 square yards

**KILL ROAD RECONSTRUCTION
 &
 STORM SEWER OUTLET
 PROJECT**

FIWA
 REGION 5
 FEDERAL
 PROJECT

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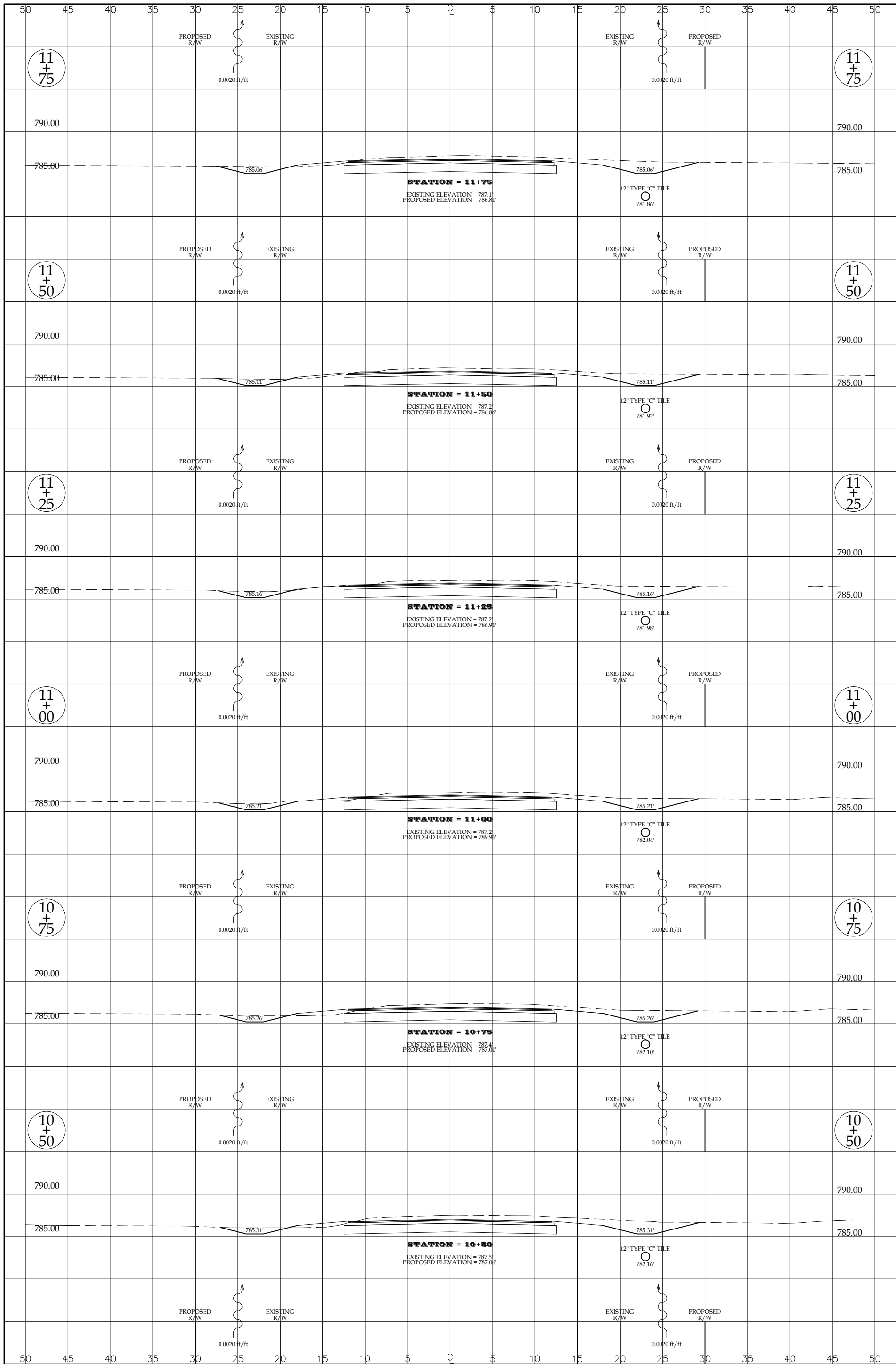
KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ KILL ROAD ~ STATION 9+00 TO STATION 10+25

SHEET TOTALS

CUT VOLUME = 11,112.33 cubic feet = 411.57 cubic yards
 FILL VOLUME = 38.12 cubic feet = 1.41 cubic yards
 SEEDING AREA = 4,948.59 square feet = 549.84 square yards

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT	
FIWA REGION	5
FEDERAL PROJECT	57

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ KILL ROAD ~ STATION 10+50 TO STATION 11+75



SHEET TOTALS

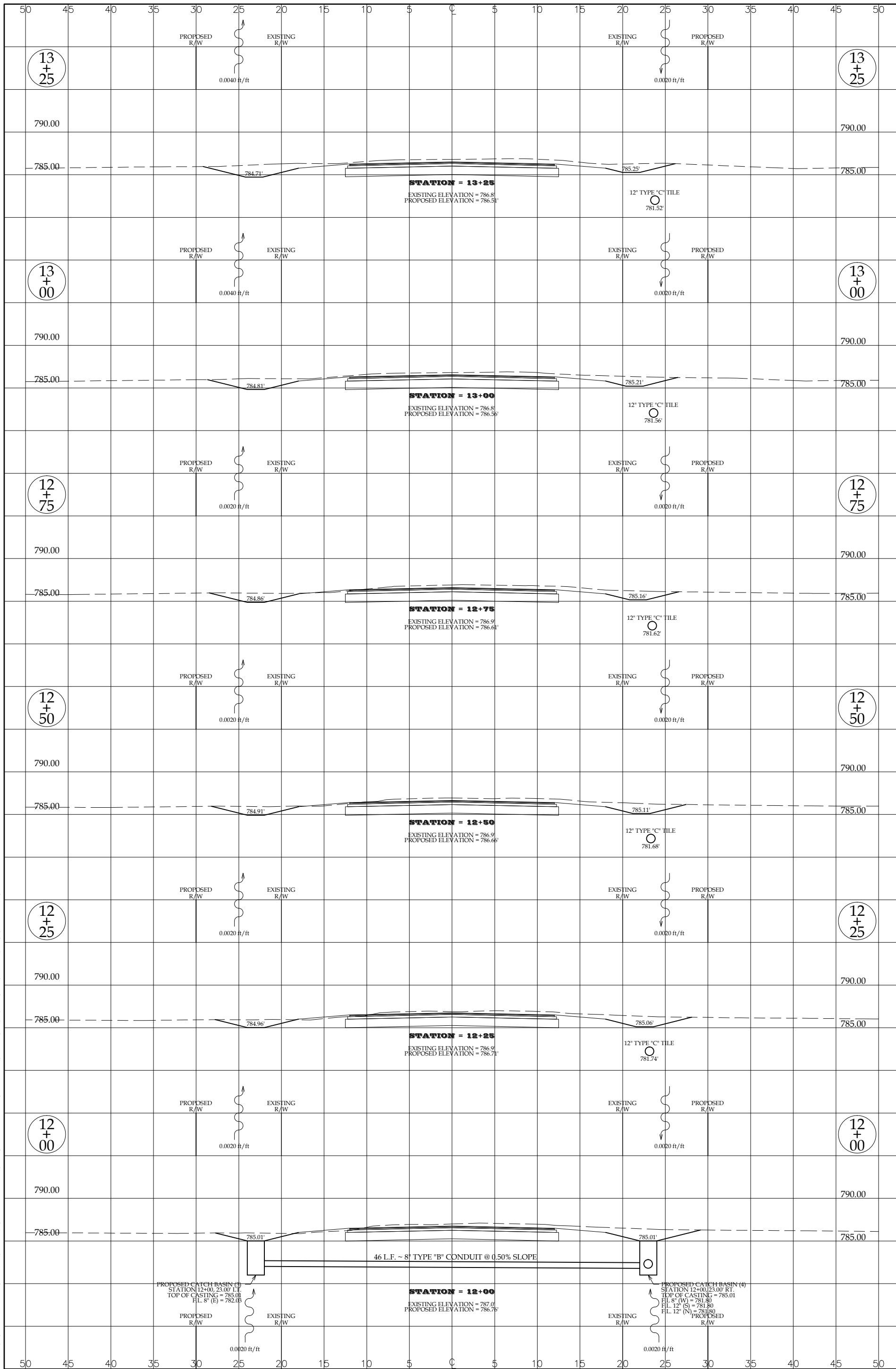
CUT VOLUME = 7,944.33 cubic feet = 294.23 cubic yards
 FILL VOLUME = 134.96 cubic feet = 5.00 cubic yards
 SEEDING AREA = 4,358.29 square feet = 484.25 square yards

**KILL ROAD RECONSTRUCTION
 &
 STORM SEWER OUTLET
 PROJECT**

FIWA
 REGION 5
 FEDERAL
 PROJECT

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KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ KILL ROAD ~ STATION 12+00 TO STATION 13+25



SHEET TOTALS

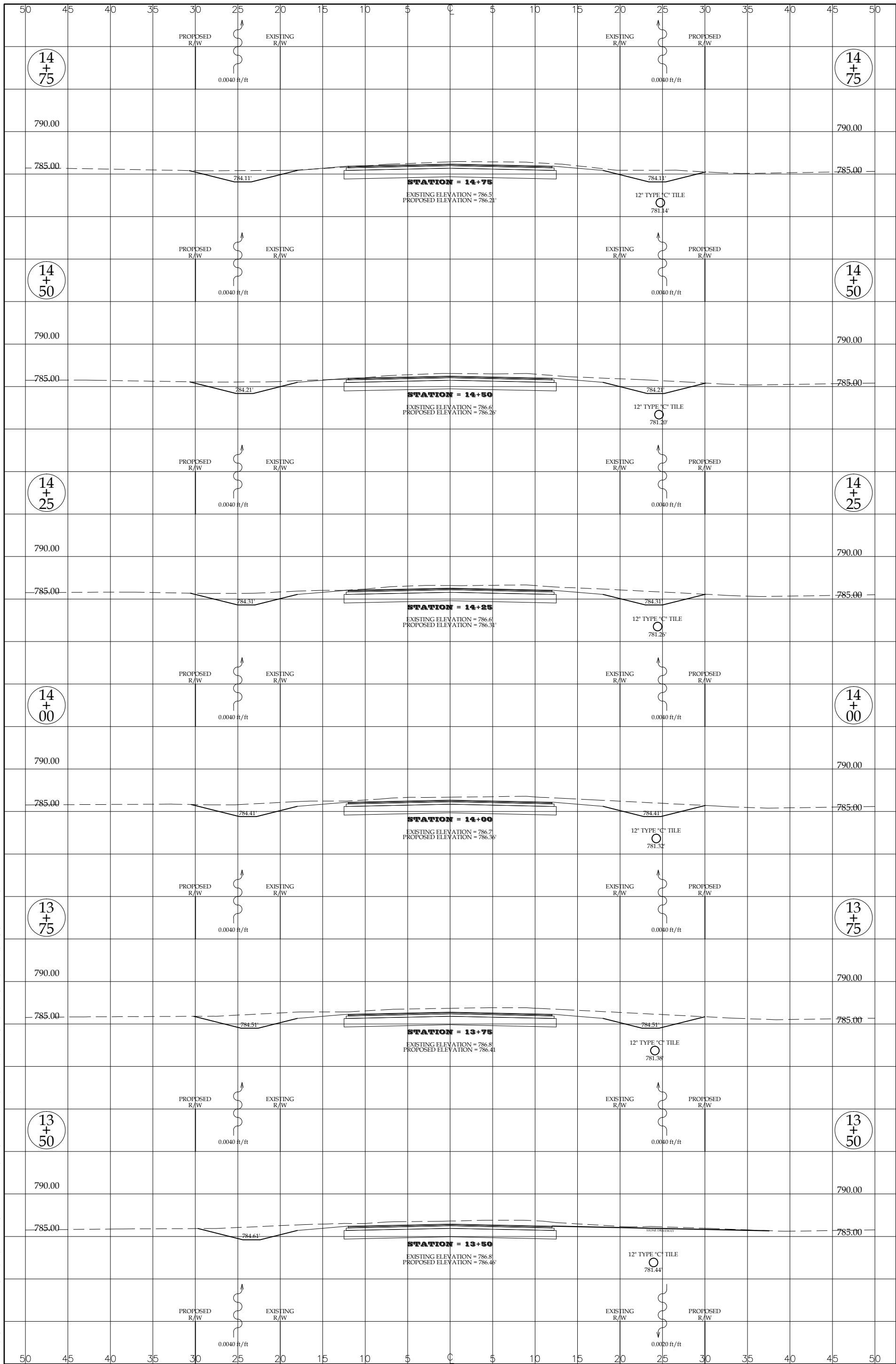
CUT VOLUME = 8,180.50 cubic feet = 302.98 cubic yards
 FILL VOLUME = 53.23 cubic feet = 1.97 cubic yards
 SEEDING AREA = 4,476.64 square feet = 497.40 square yards

**KILL ROAD RECONSTRUCTION
 &
 STORM SEWER OUTLET
 PROJECT**

HIWA
 REGION 5
 FEDERAL
 PROJECT

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KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ KILL ROAD ~ STATION 13+50 TO STATION 14+75



SHEET TOTALS

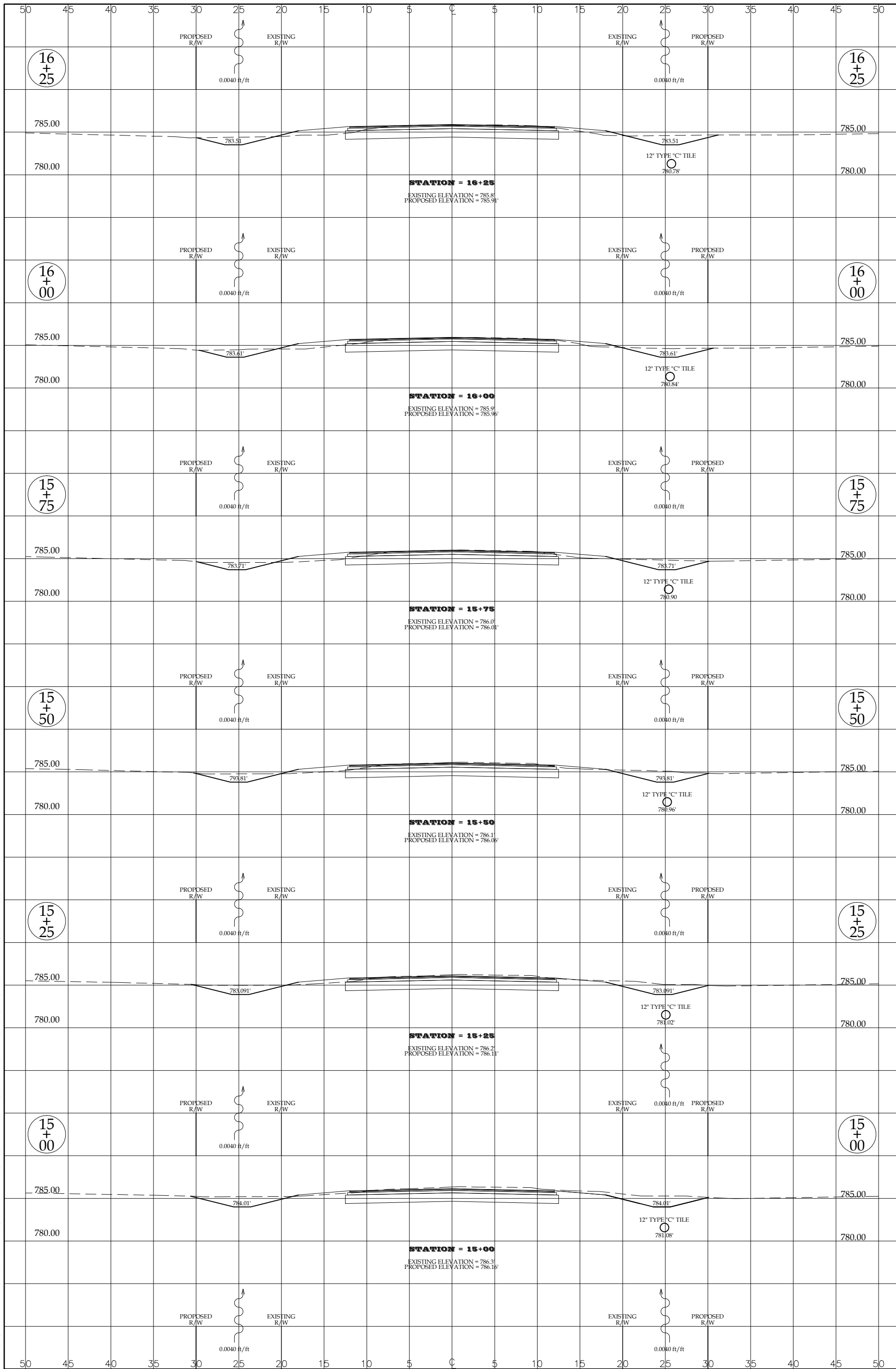
CUT VOLUME = 9,926.17 cubic feet = 367.64 cubic yards
 FILL VOLUME = 0.5 cubic feet = 0.02 cubic yards
 SEEDING AREA = 4,932.81 square feet = 548.09 square yards

**KILL ROAD RECONSTRUCTION
 &
 STORM SEWER OUTLET
 PROJECT**

HIWA
 REGION 5
 FEDERAL
 PROJECT

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 57

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ KILL ROAD ~ STATION 15+00 TO STATION 16+25



SHEET TOTALS

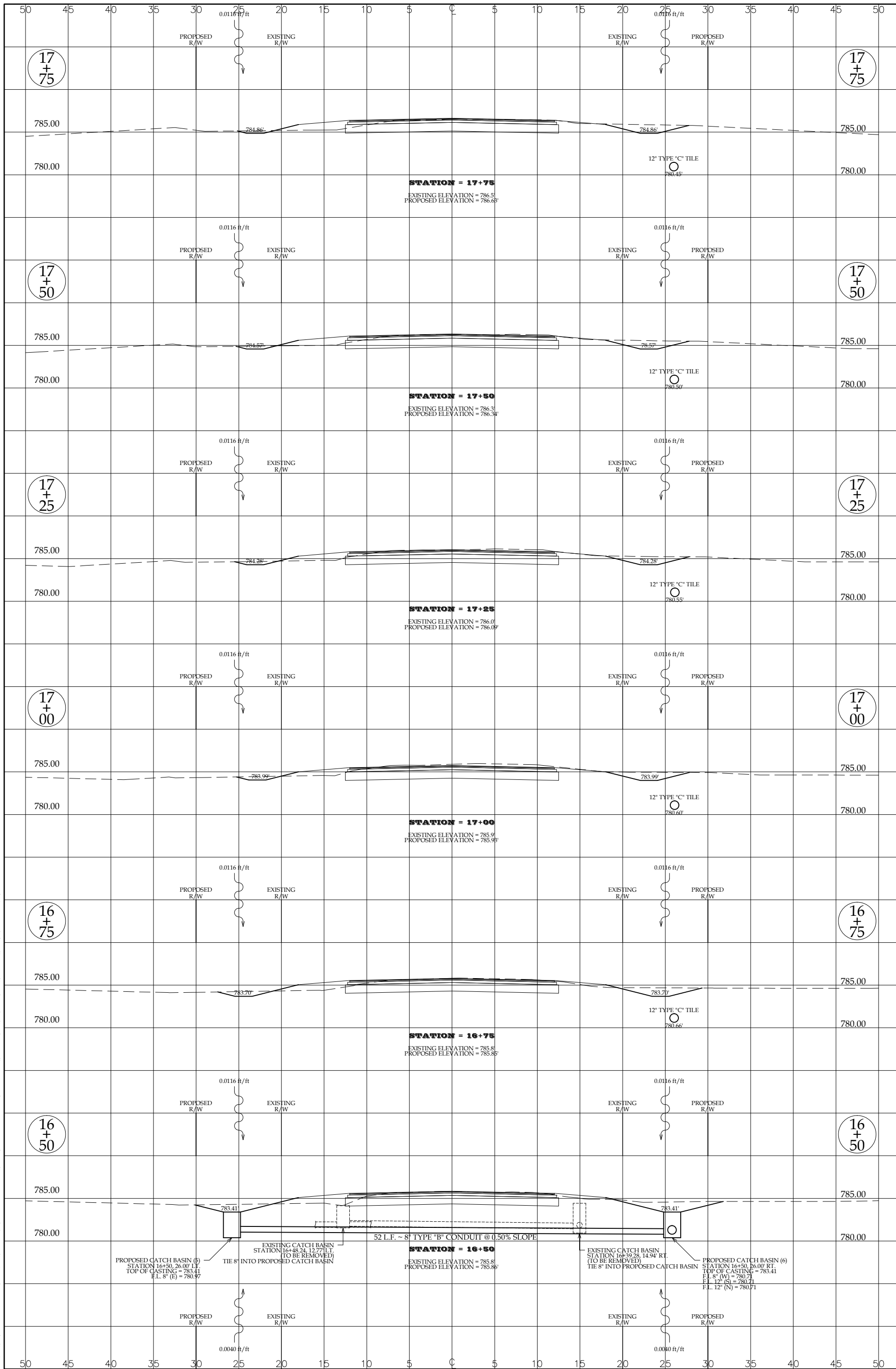
CUT VOLUME = 6,279.97 cubic feet = 232.59 cubic yards
 FILL VOLUME = 431.26 cubic feet = 15.97 cubic yards
 SEEDING AREA = 4,967.79 square feet = 551.98 square yards

**KILL ROAD RECONSTRUCTION
 &
 STORM SEWER OUTLET
 PROJECT**

FIWA
 REGION 5
 FEDERAL
 PROJECT

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 57

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ KILL ROAD ~ STATION 16+50 TO STATION 17+75

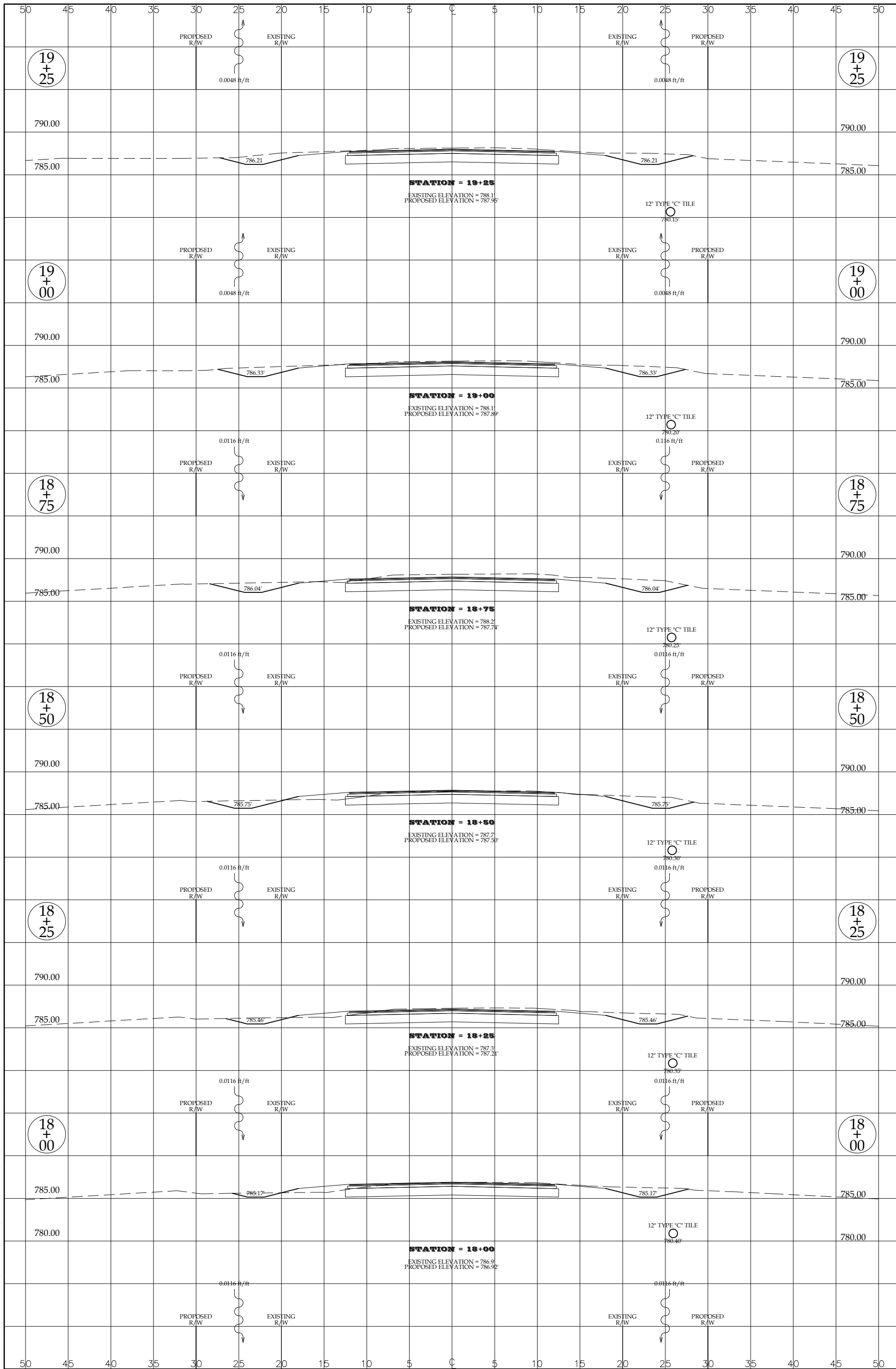


SHEET TOTALS

CUT VOLUME = 6,345.34 cubic feet = 235.01 cubic yards
 FILL VOLUME = 599.79 cubic feet = 22.21 cubic yards
 SEEDING AREA = 5,283.54 square feet = 587.06 square yards

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT	
FIWA REGION	5
FEDERAL PROJECT	

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ KILL ROAD STATION 18+00 TO STATION 19+25



SHEET TOTALS

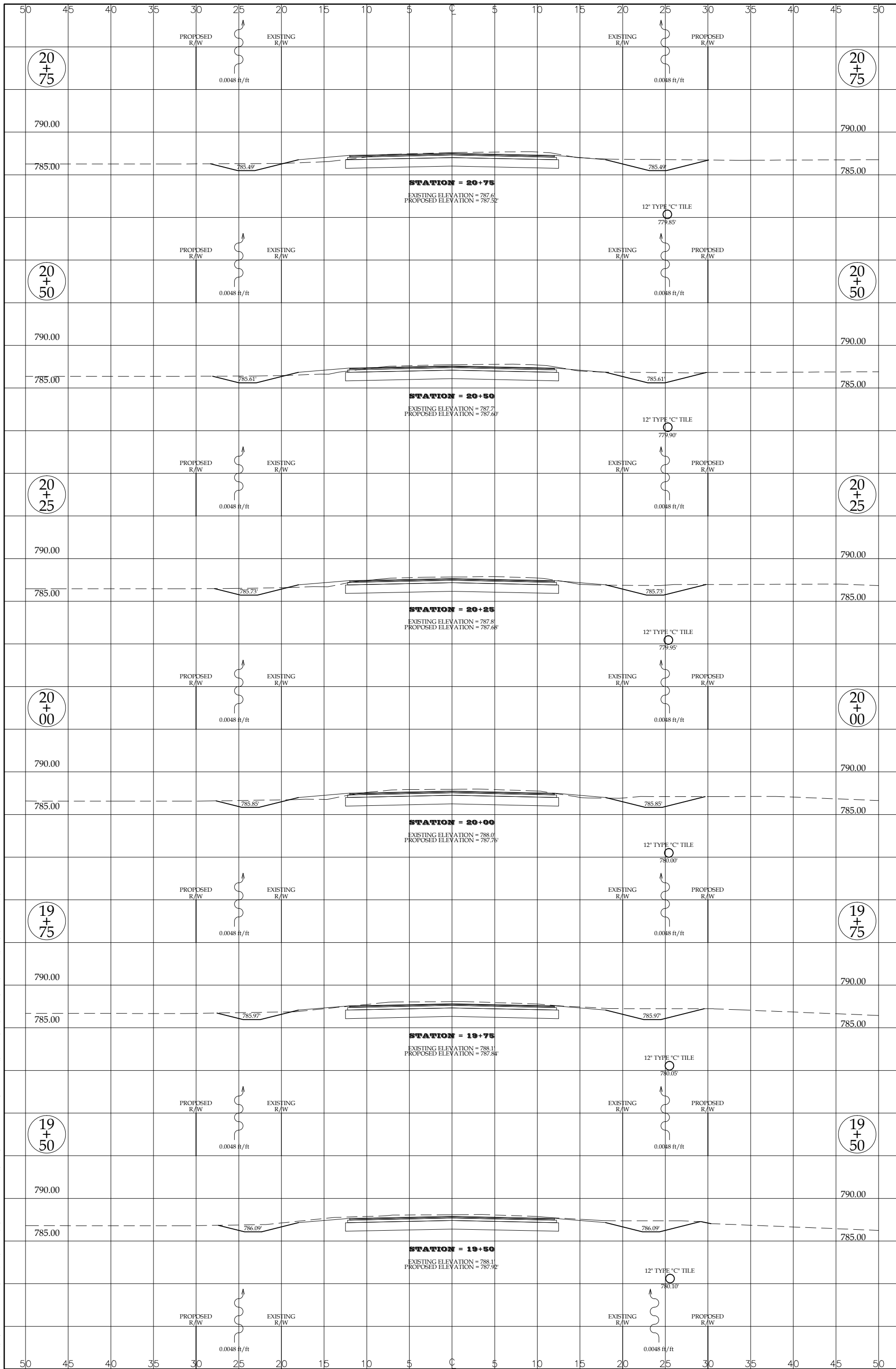
CUT VOLUME = 6,753.39 cubic feet = 250.13 cubic yards
 FILL VOLUME = 203.61 cubic feet = 7.54 cubic yards
 SEEDING AREA = 4,391.62 square feet = 487.96 square yards

**KILL ROAD RECONSTRUCTION
 &
 STORM SEWER OUTLET
 PROJECT**

FIWA
 REGION 5
 FEDERAL
 PROJECT

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KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ KILL ROAD ~ STATION 19+50 TO STATION 20+75



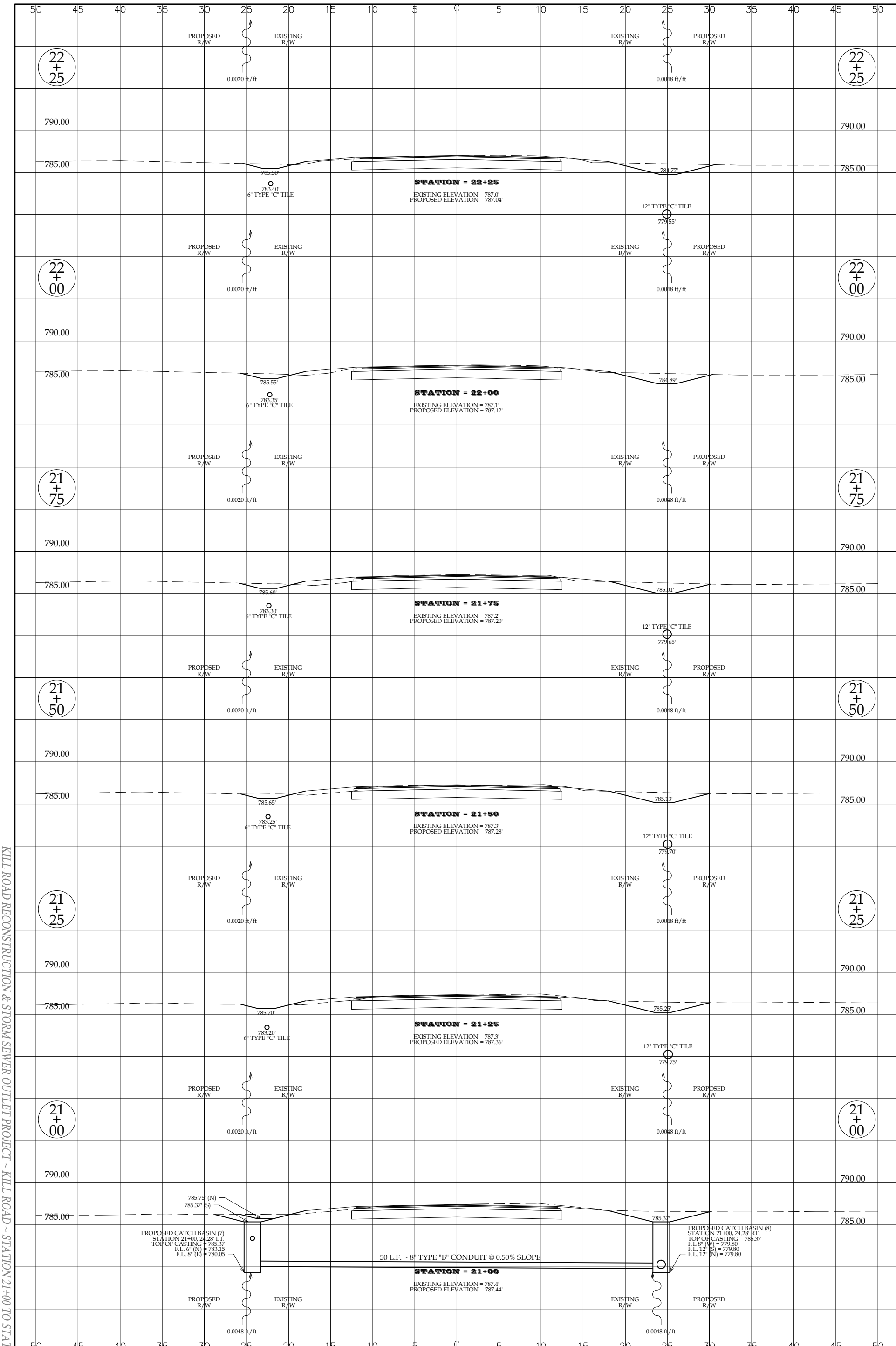
SHEET TOTALS

CUT VOLUME = 6,910.60 cubic feet = 255.95 cubic yards
 FILL VOLUME = 184.78 cubic feet = 6.84 cubic yards
 SEEDING AREA = 4,479.14 square feet = 497.68 square yards

**KILL ROAD RECONSTRUCTION
 &
 STORM SEWER OUTLET
 PROJECT**

FIWA
 REGION 5
 FEDERAL
 PROJECT

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KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ KILL ROAD ~ STATION 21+00 TO STATION 22+25

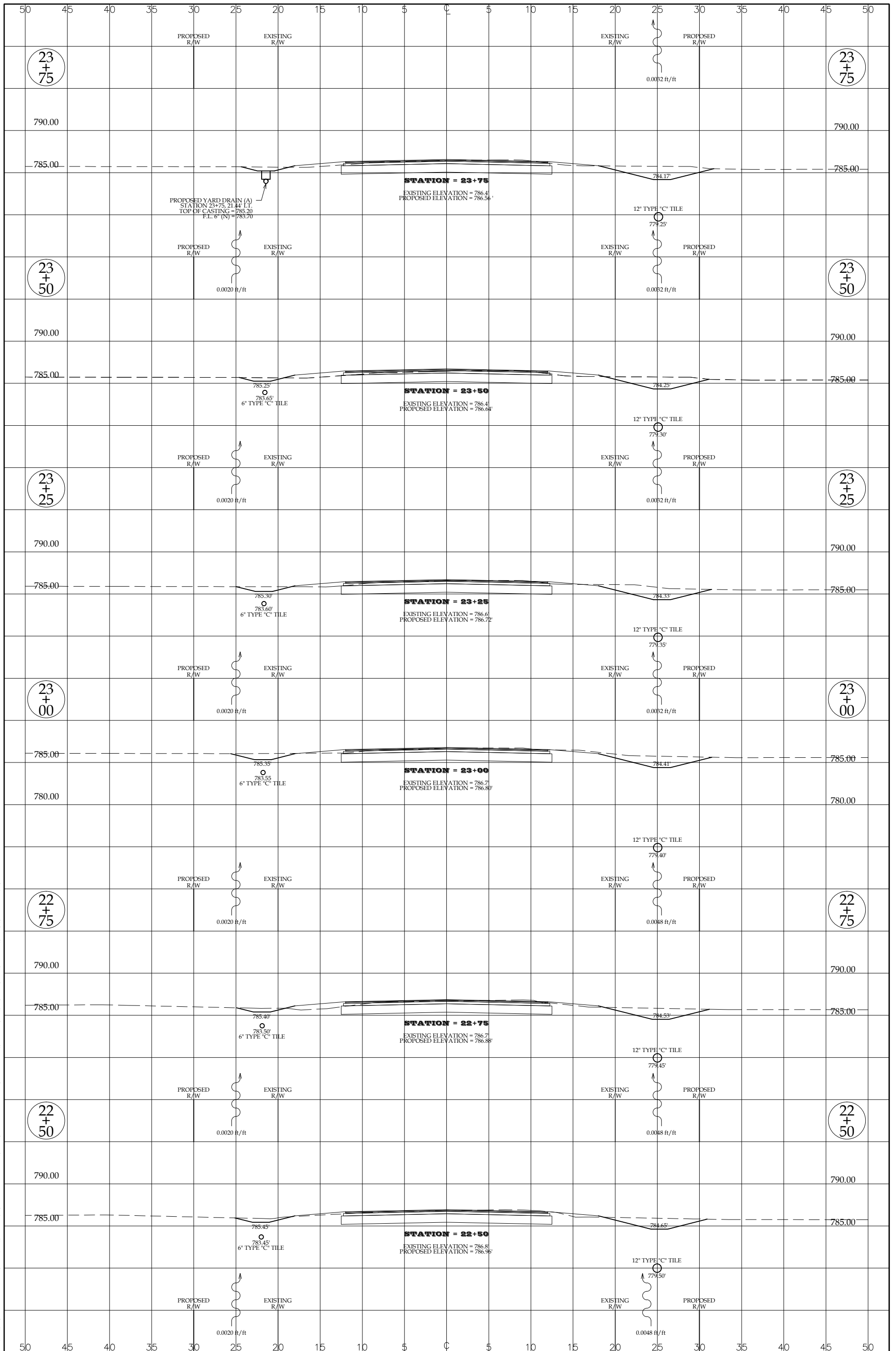
SHEET TOTALS

CUT VOLUME = 6,592.19 cubic feet = 244.16 cubic yards
 FILL VOLUME = 323.17 cubic feet = 11.97 cubic yards
 SEEDING AREA = 4,947.92 square feet = 549.77 square yards

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT	
FIWA REGION	5
FEDERAL PROJECT	

25
57

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ KILL ROAD ~ STATION 22+50 TO STATION 23+75



SHEET TOTALS

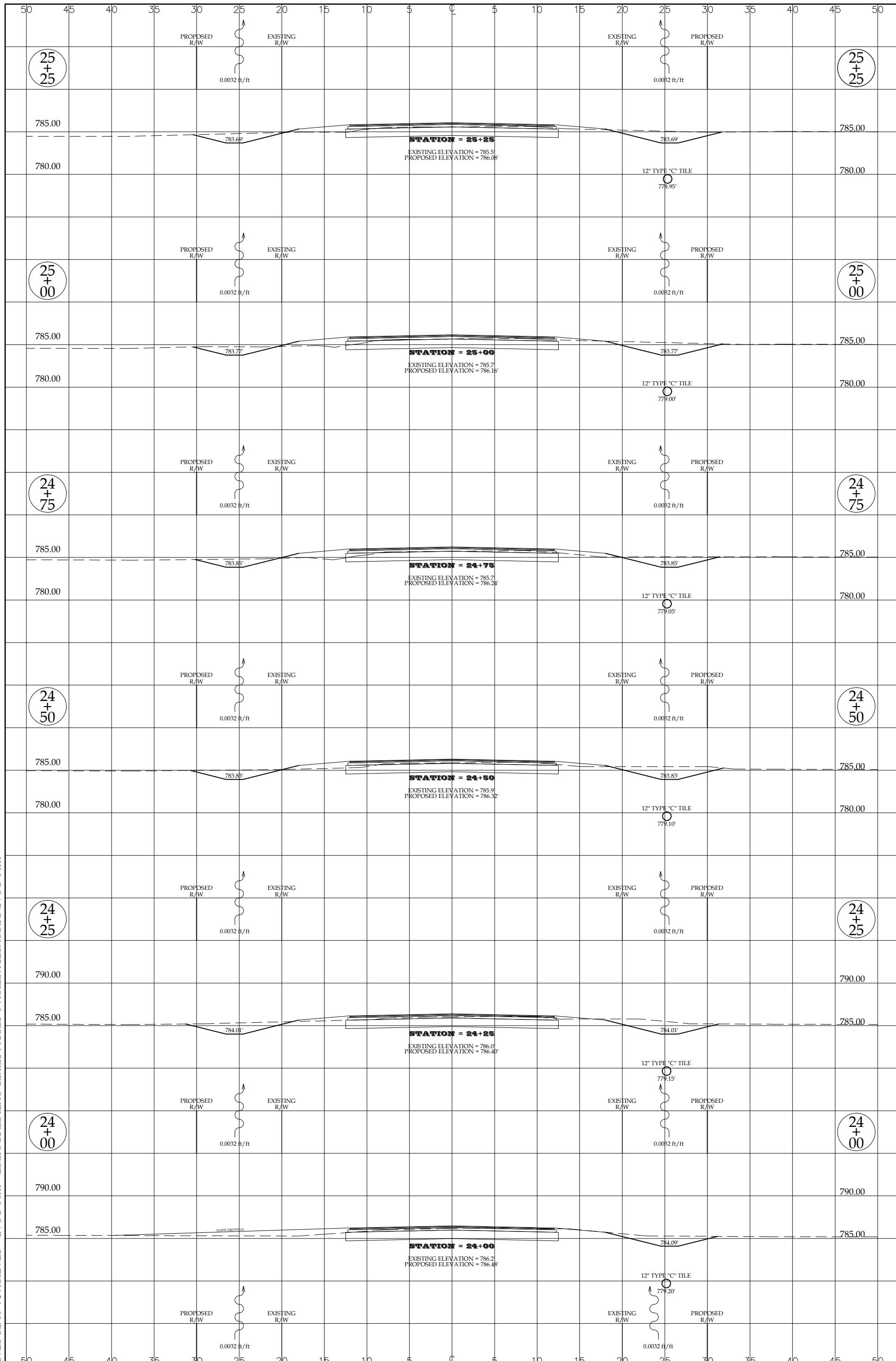
CUT VOLUME = 6,930.26 cubic feet = 256.68 cubic yards
 FILL VOLUME = 255.01 cubic feet = 9.44 cubic yards
 SEEDING AREA = 5,469.22 square feet = 607.69 square yards

**KILL ROAD RECONSTRUCTION
 &
 STORM SEWER OUTLET
 PROJECT**

FIWA
 REGION 5
 FEDERAL
 PROJECT

26
 57

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ KILL ROAD ~ STATION 24+00 TO STATION 25+25

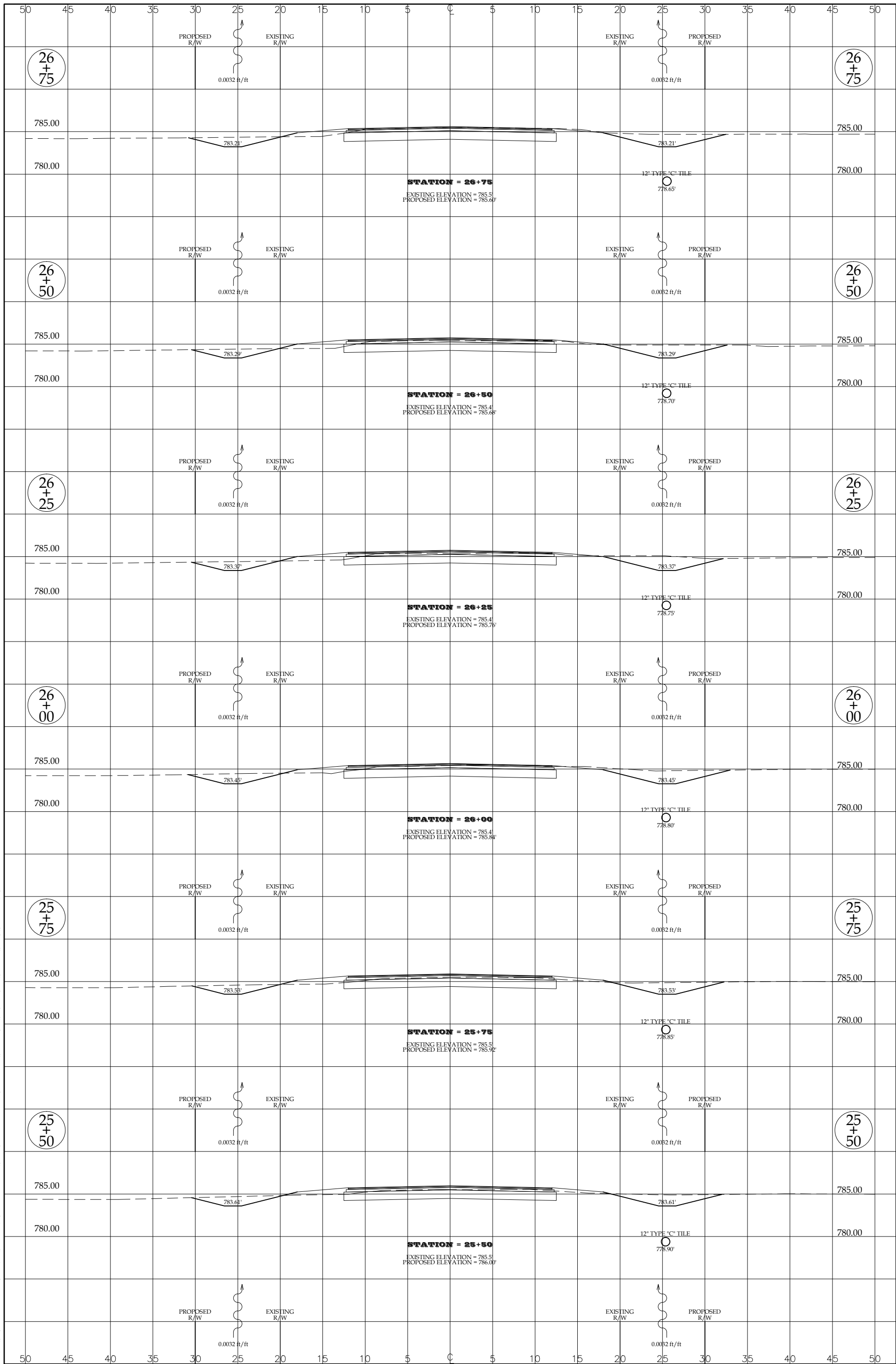


SHEET TOTALS

CUT VOLUME = 5,375.66 cubic feet = 199.10 cubic yards
 FILL VOLUME = 434.81 cubic feet = 16.10 cubic yards
 SEEDING AREA = 5,255.23 square feet = 583.91 square yards

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT	
FHWA REGION 5 FEDERAL PROJECT	5

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ KILL ROAD ~ STATION 25+50 TO STATION 26+75



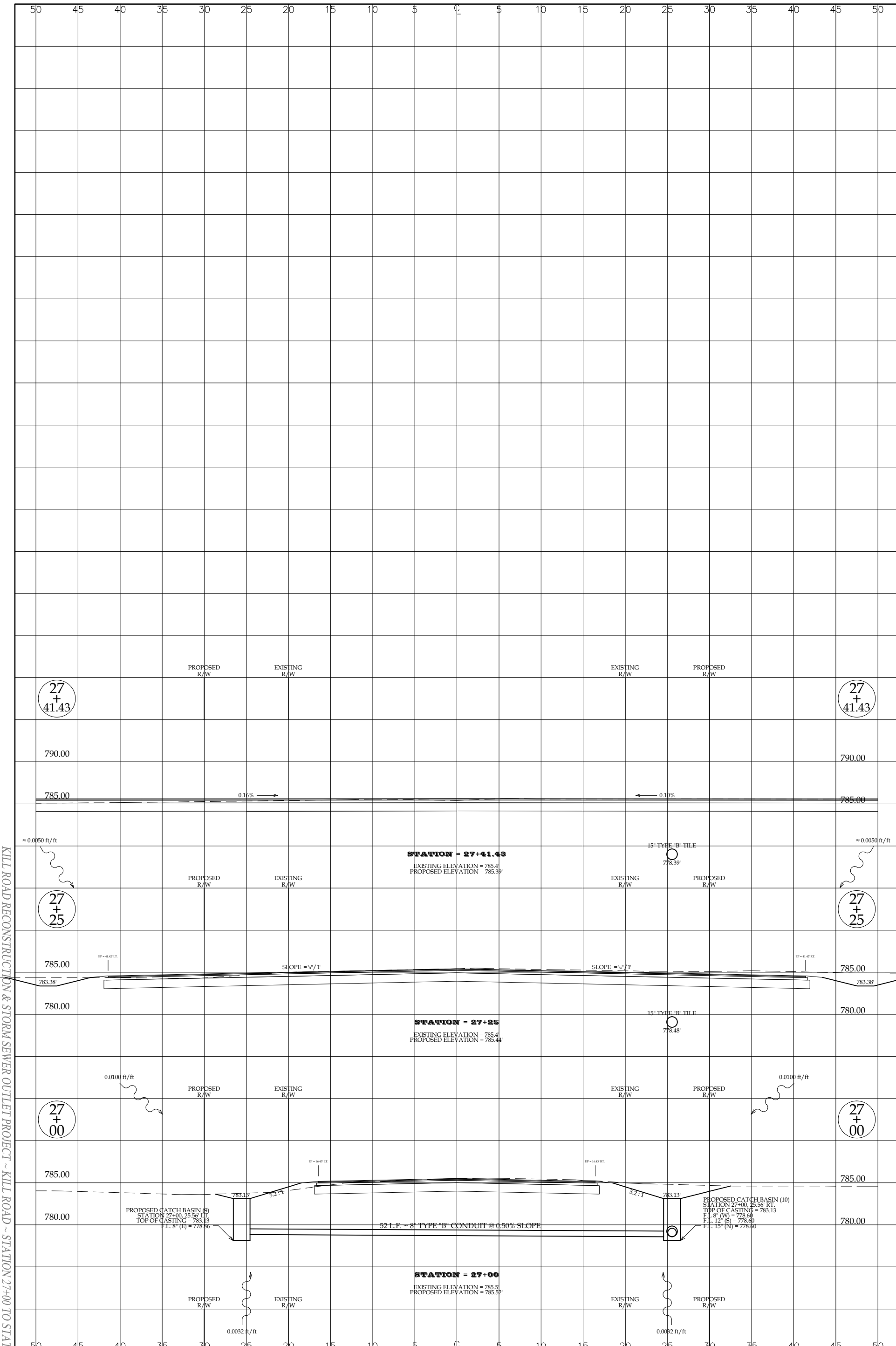
SHEET TOTALS

CUT VOLUME = 5,632.02 cubic feet = 208.59 cubic yards
 FILL VOLUME = 439.78 cubic feet = 16.29 cubic yards
 SEEDING AREA = 5,337.16 square feet = 593.02 square yards

**KILL ROAD RECONSTRUCTION
 &
 STORM SEWER OUTLET
 PROJECT**

FIWA
 REGION 5
 FEDERAL
 PROJECT

28
 57



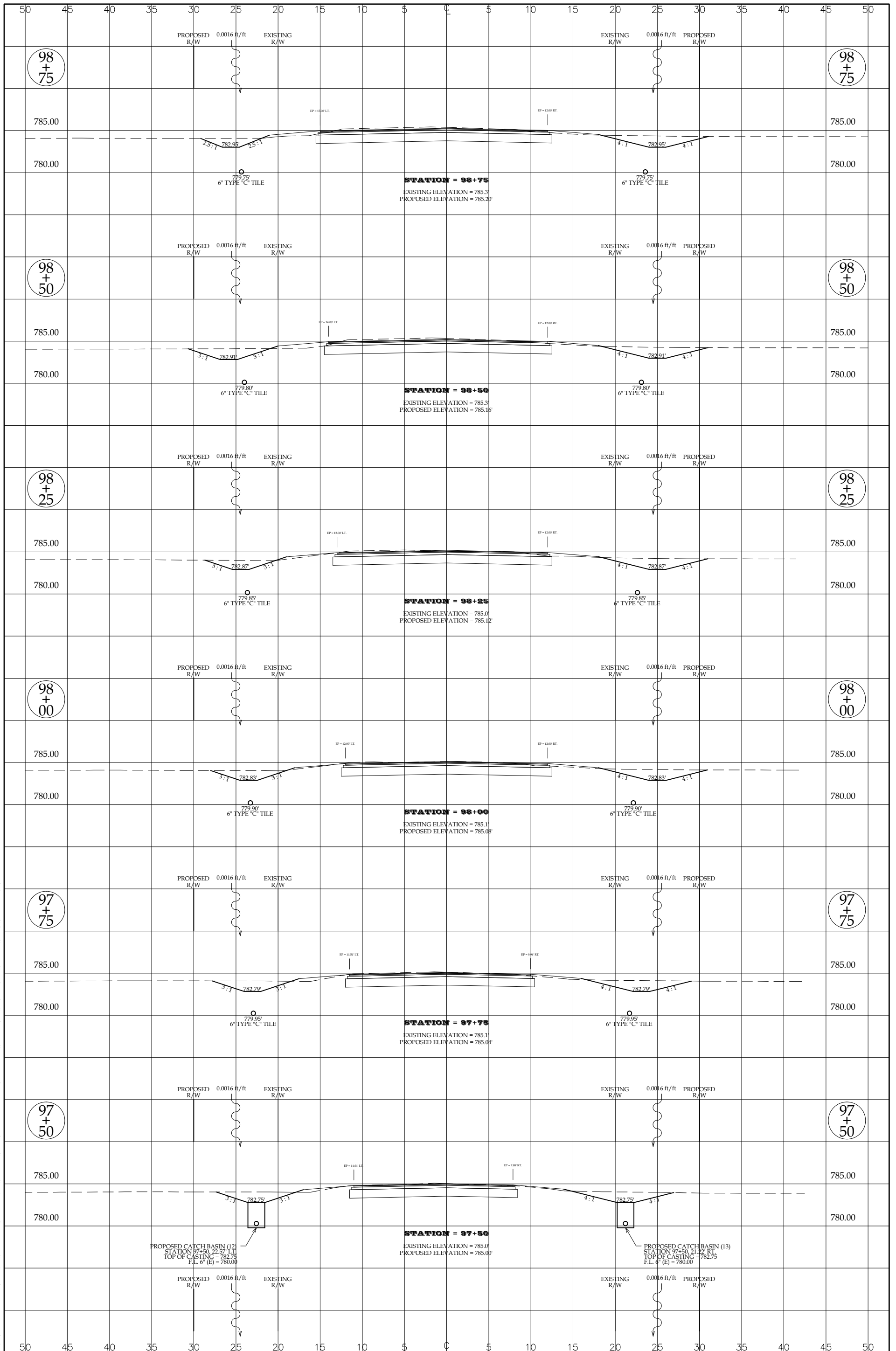
KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ KILL ROAD ~ STATION 27+00 TO STATION 27+41.43

SHEET TOTALS

CUT VOLUME = 2,818.02 cubic feet = 104.37 cubic yards
 FILL VOLUME = 75.90 cubic feet = 2.81 cubic yards
 SEEDING AREA = 1,929.20 square feet = 214.36 square yards

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT	
FIWA REGION	5
FEDERAL PROJECT	

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ STATE ROAD ~ STATION 97+50 TO STATION 98+75



SHEET TOTALS

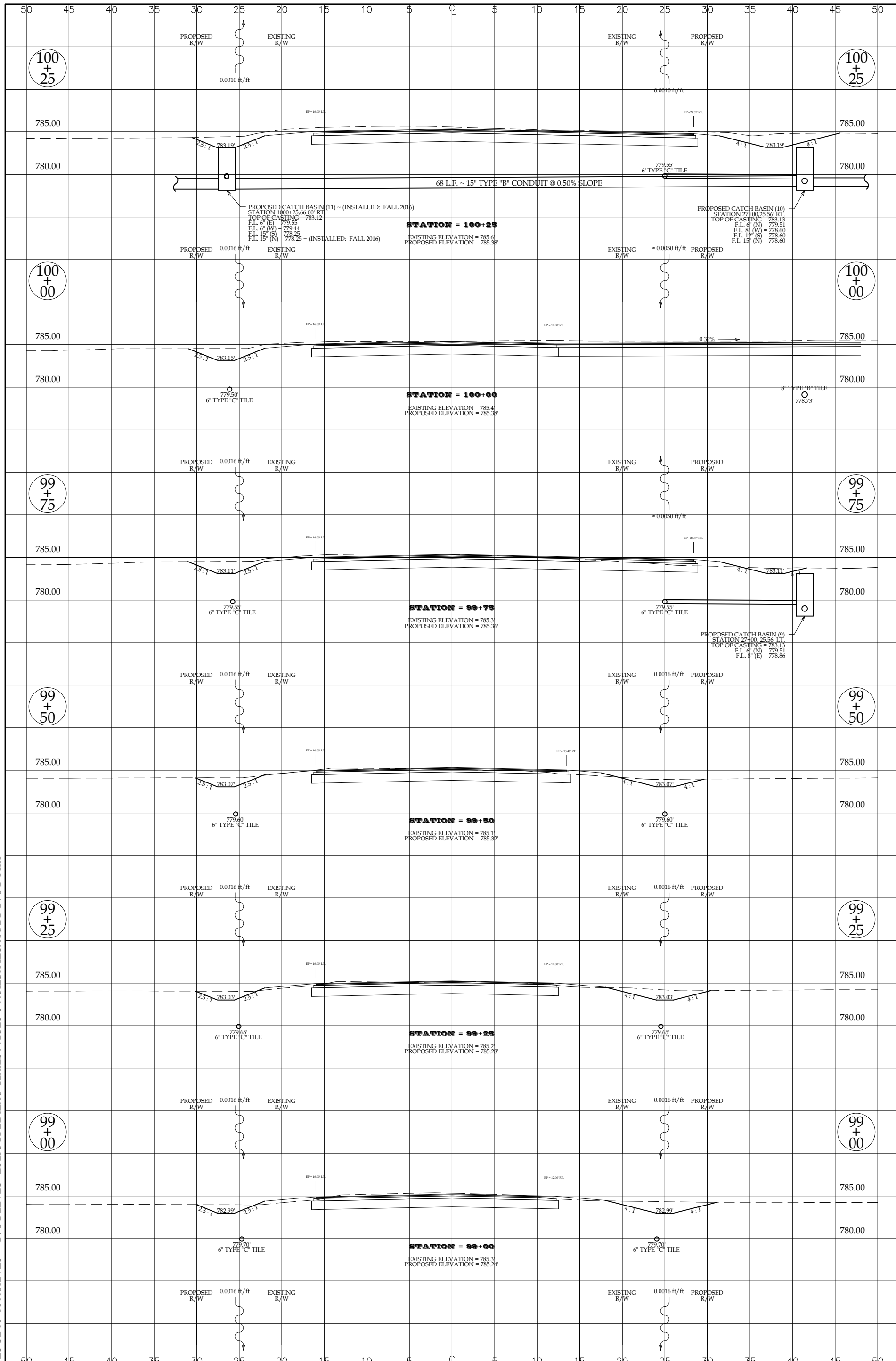
CUT VOLUME = 5,049.05 cubic feet = 187.00 cubic yards
 FILL VOLUME = 249.95 cubic feet = 9.26 cubic yards
 SEEDING AREA = 4,341.54 square feet = 482.39 square yards

**KILL ROAD RECONSTRUCTION
&
STORM SEWER OUTLET
PROJECT**

FIWA
REGION 5
FEDERAL
PROJECT

30
57

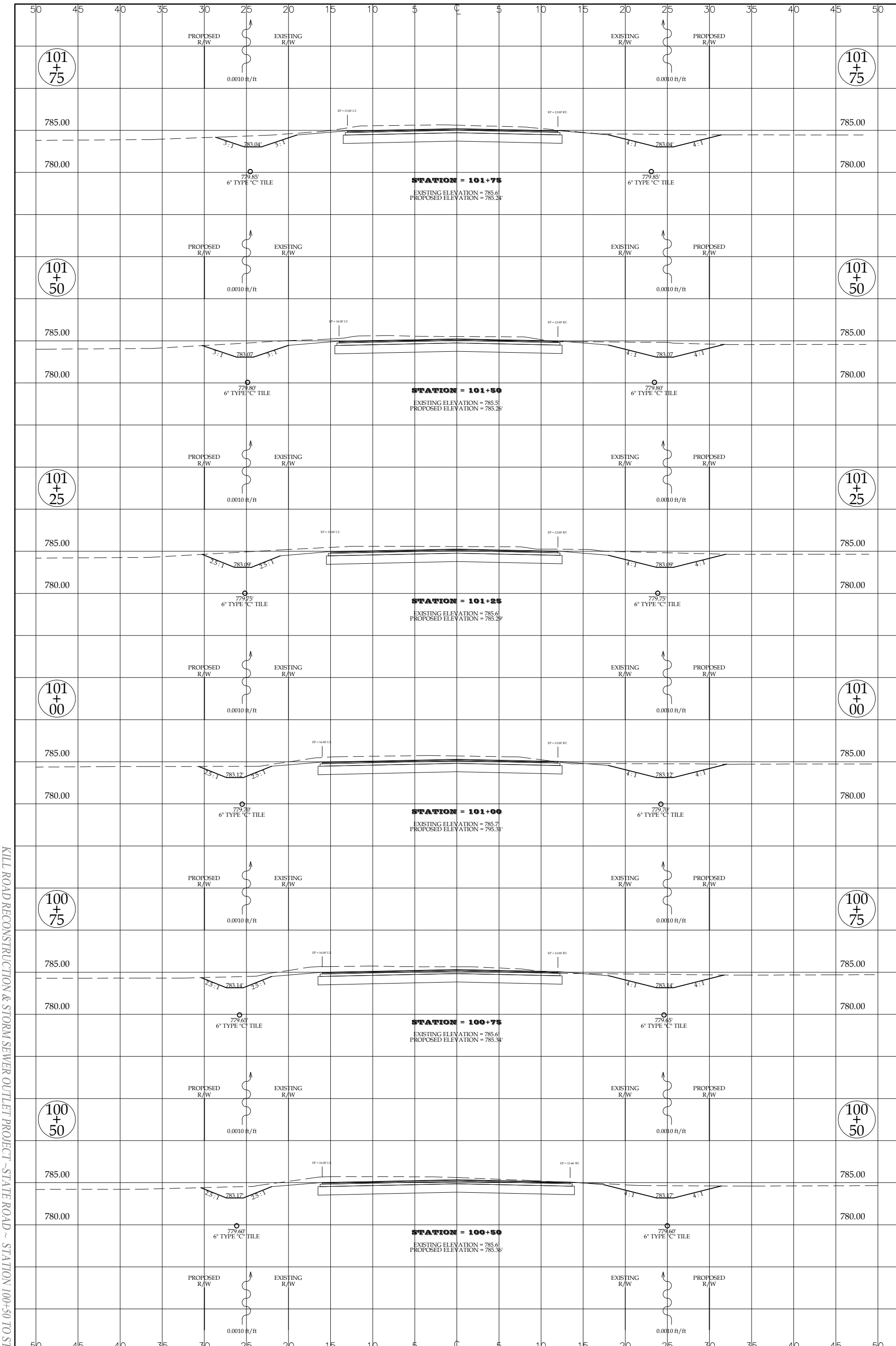
KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT - STATE ROAD - STATION 99+00 TO STATION 100+25



SHEET TOTALS

CUT VOLUME = 7,990.25 cubic feet = 295.94 cubic yards
 FILL VOLUME = 157.73 cubic feet = 5.84 cubic yards
 SEEDING AREA = 5,089.40 square feet = 565.49 square yards

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT		FHWA REGION 5 FEDERAL PROJECT	31 57
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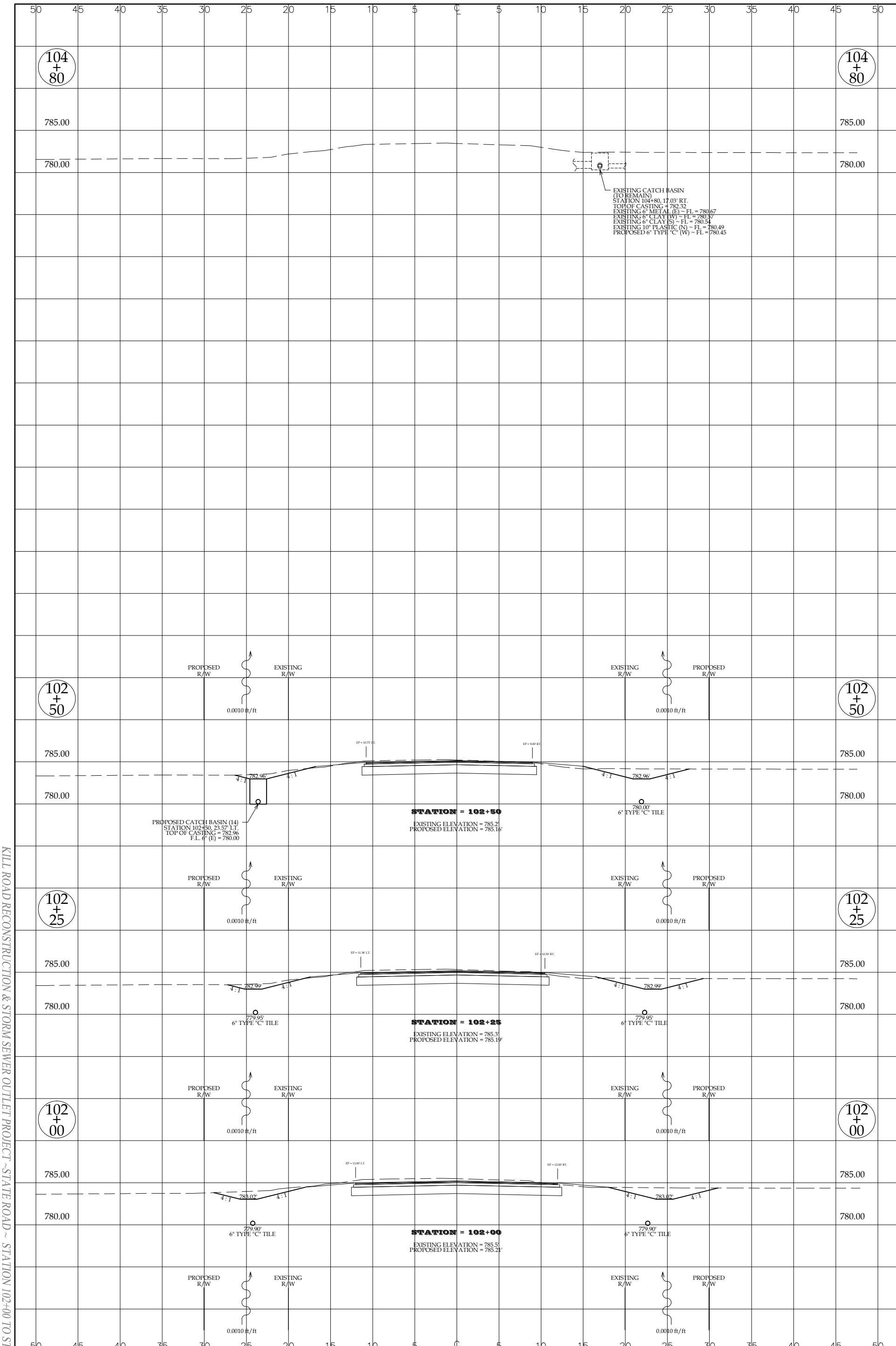


KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT - STATE ROAD - STATION 100+50 TO STATION 101+75

SHEET TOTALS

CUT VOLUME = 10,334.67 cubic feet = 382.77 cubic yards
 FILL VOLUME = 1.17 cubic feet = 0.04 cubic yards
 SEEDING AREA = 5,181.27 square feet = 575.70 square yards

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT		FHWA REGION 5 FEDERAL PROJECT
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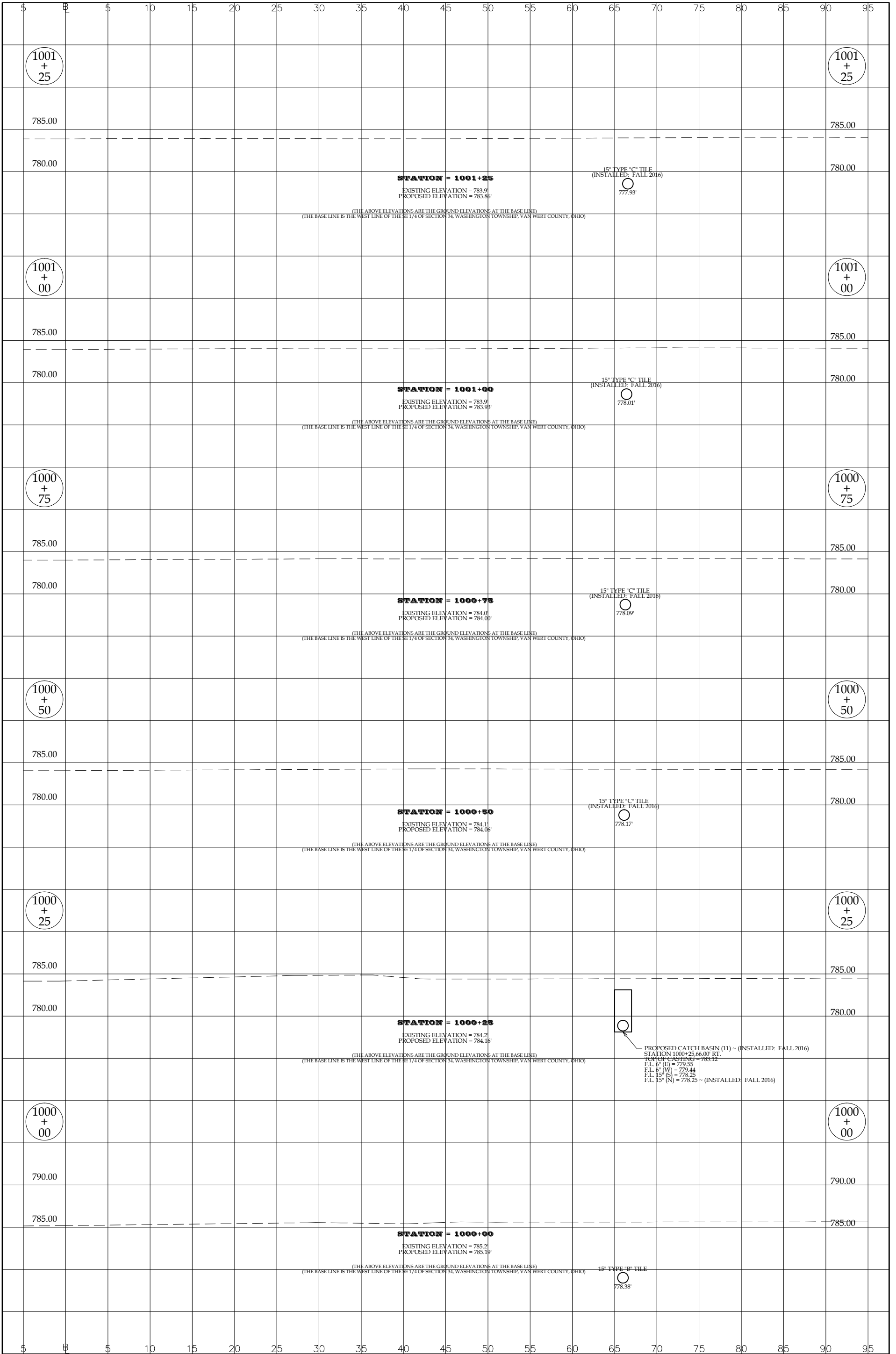
KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT - STATE ROAD - STATION 102+00 TO STATION 102+50

SHEET TOTALS

CUT VOLUME = 4,049.14 cubic feet = 149.97 cubic yards
 FILL VOLUME = 84.07 cubic feet = 3.11 cubic yards
 SEEDING AREA = 2,788.48 square feet = 309.83 square yards

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT	
FHWA REGION 5 FEDERAL PROJECT	5

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ STORM SEWER OUTLET ~ STATION 1000+00 TO STATION 1001+25

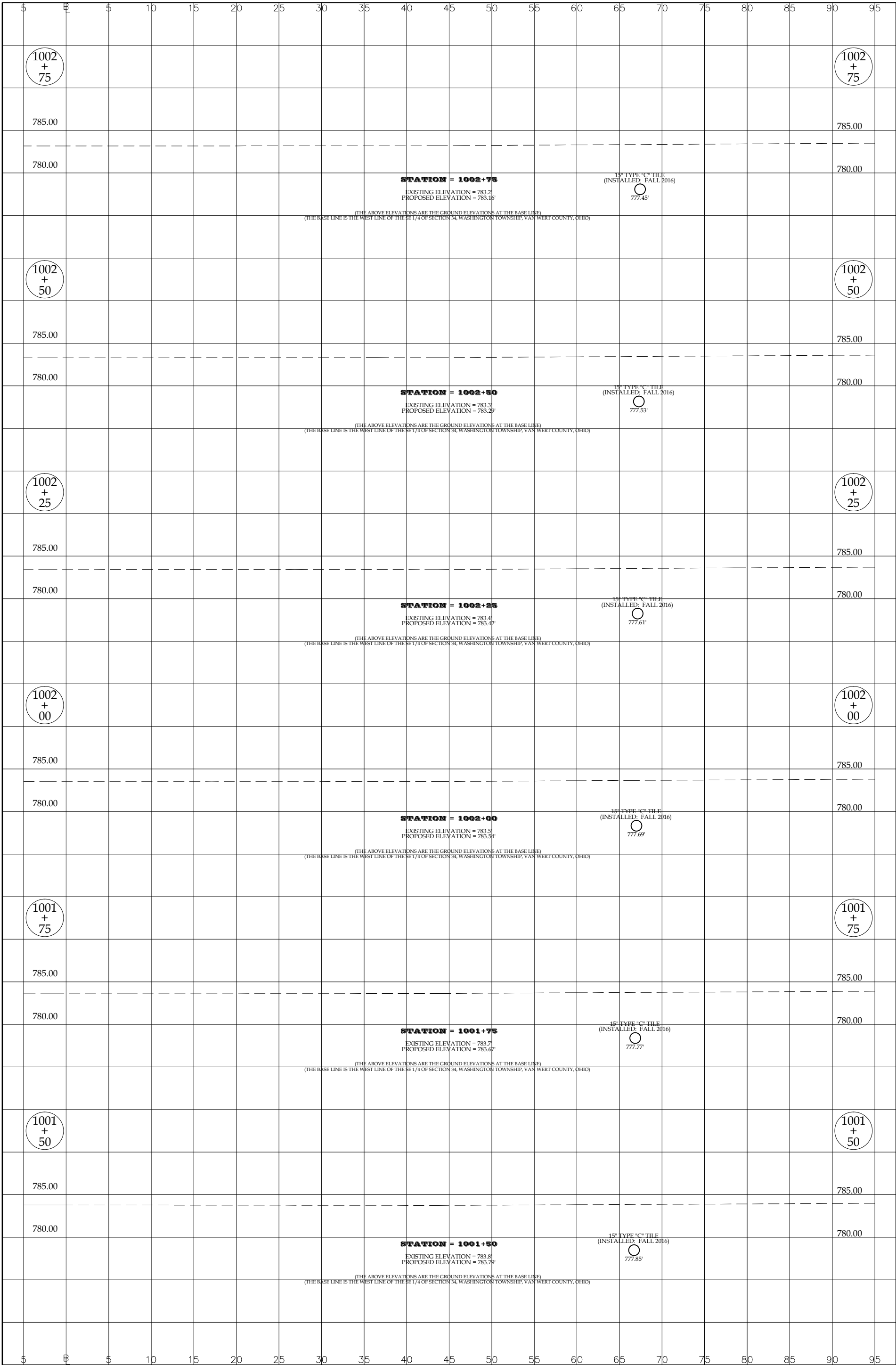


SHEET TOTALS

FILL VOLUME = 0 cubic feet = 0 cubic yards
CUT VOLUME = 0 cubic feet = 0 cubic yards
SEEDING AREA = 0 square feet = 0 square yards

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT	
HIWA REGION	5
FEDERAL PROJECT	

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ STORM SEWER OUTLET ~ STATION 1001+50 TO STATION 1002+75

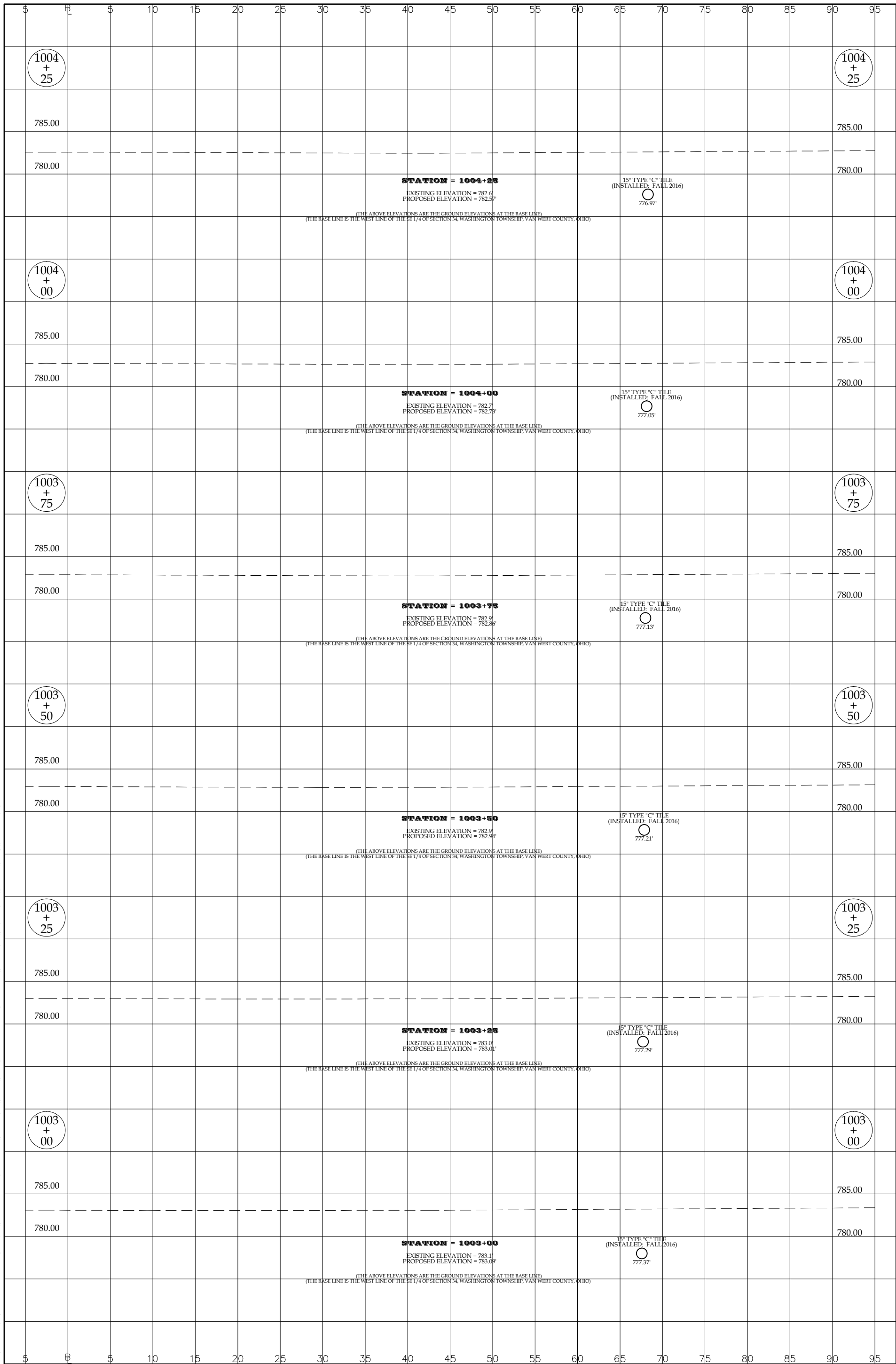


SHEET TOTALS

FILL VOLUME = 0 cubic feet = 0 cubic yards
 CUT VOLUME = 0 cubic feet = 0 cubic yards
 SEEDING AREA = 0 square feet = 0 square yards

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT	
HIWA REGION	5
FEDERAL PROJECT	

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ STATION 1003+00 TO STATION 1004+25

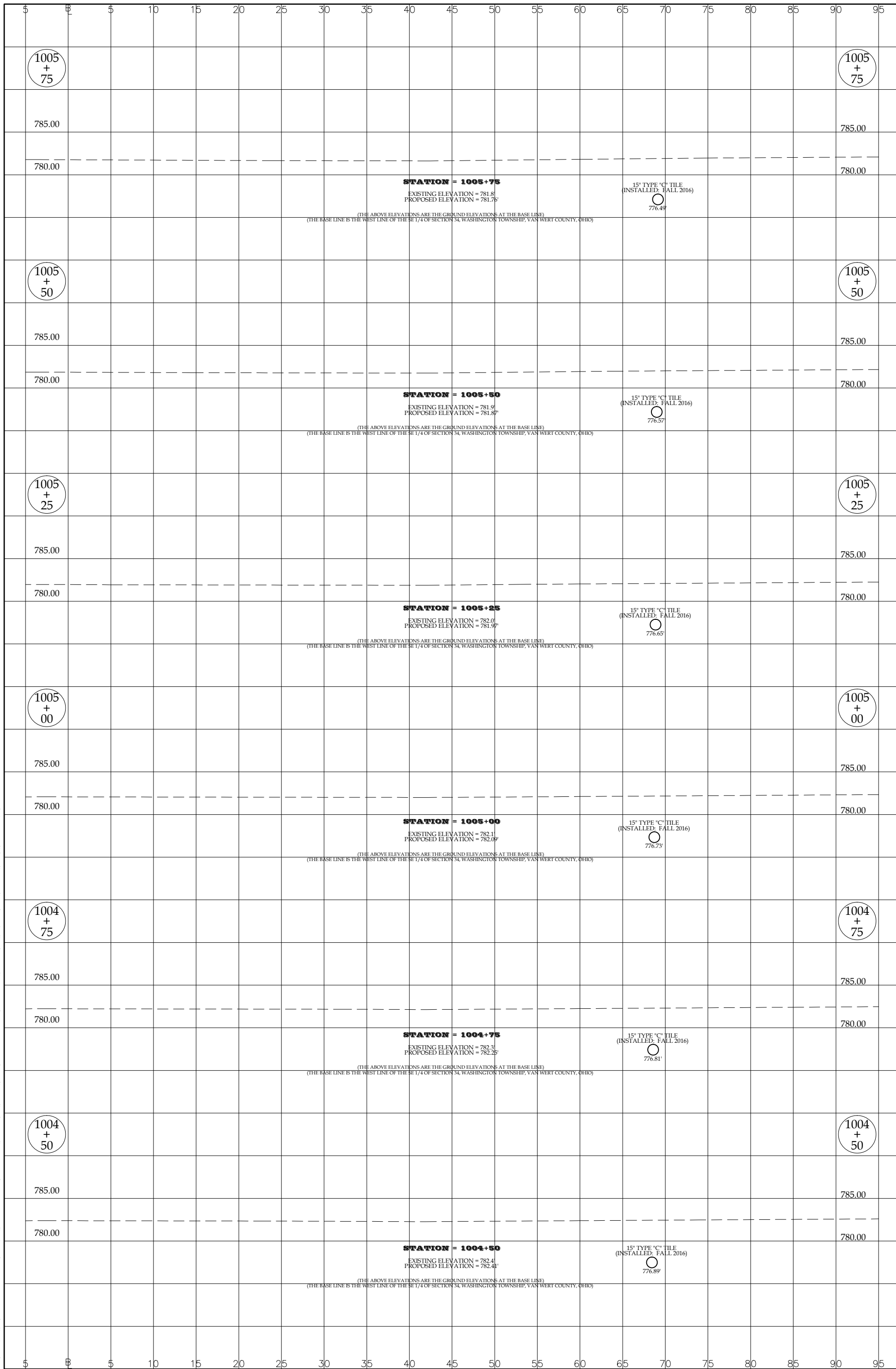


SHEET TOTALS

FILL VOLUME = 0 cubic feet = 0 cubic yards
CUT VOLUME = 0 cubic feet = 0 cubic yards
SEEDING AREA = 0 square feet = 0 square yards

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT	
HIWA REGION	5
FEDERAL PROJECT	

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ STORM SEWER OUTLET ~ STATION 1004+50 TO STATION 1005+75

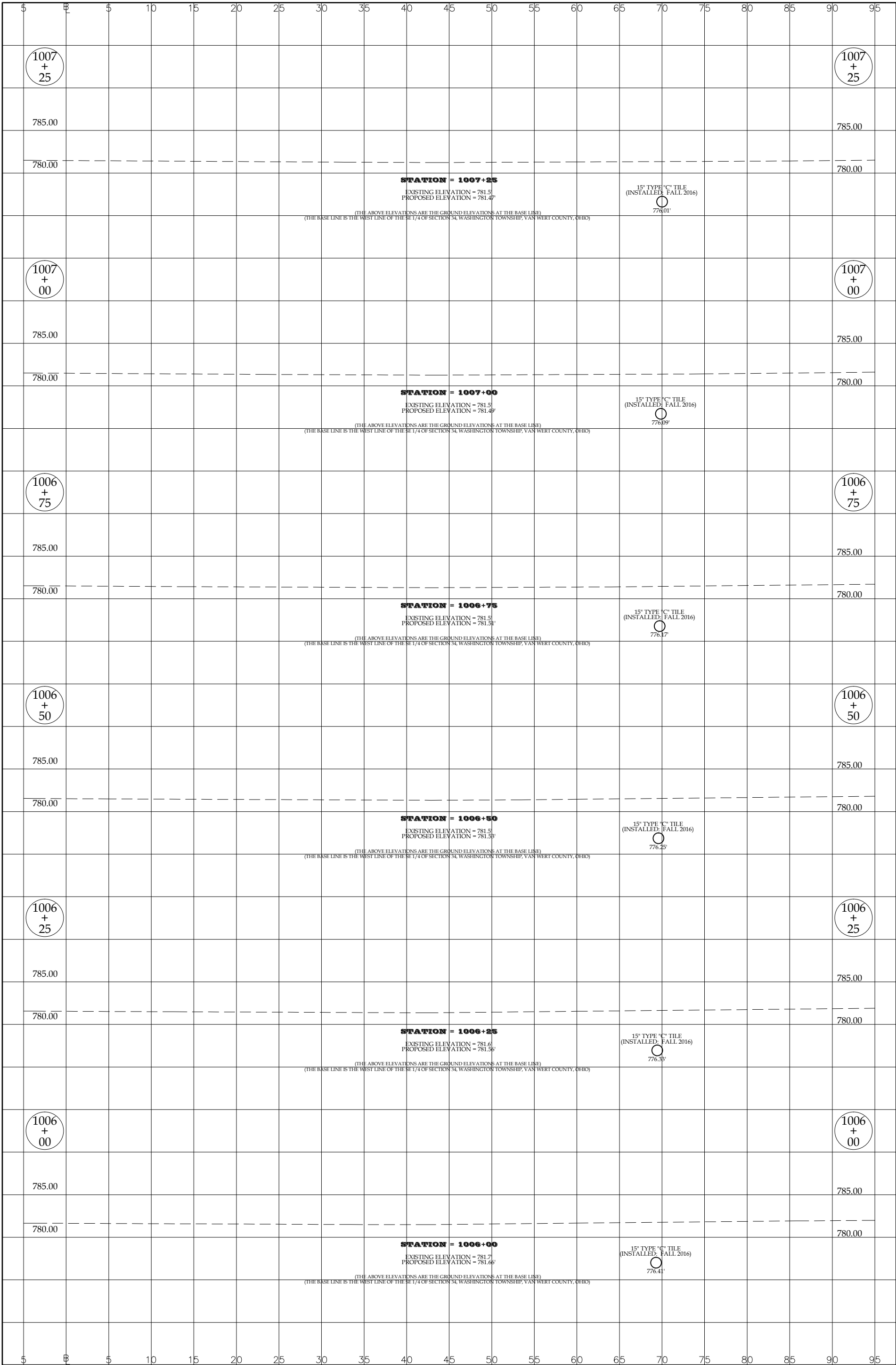


SHEET TOTALS

FILL VOLUME = 0 cubic feet = 0 cubic yards
 CUT VOLUME = 0 cubic feet = 0 cubic yards
 SEEDING AREA = 0 square feet = 0 square yards

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT	
FIWA REGION	5
FEDERAL PROJECT	

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ STATION 1006+00 TO STATION 1007+25

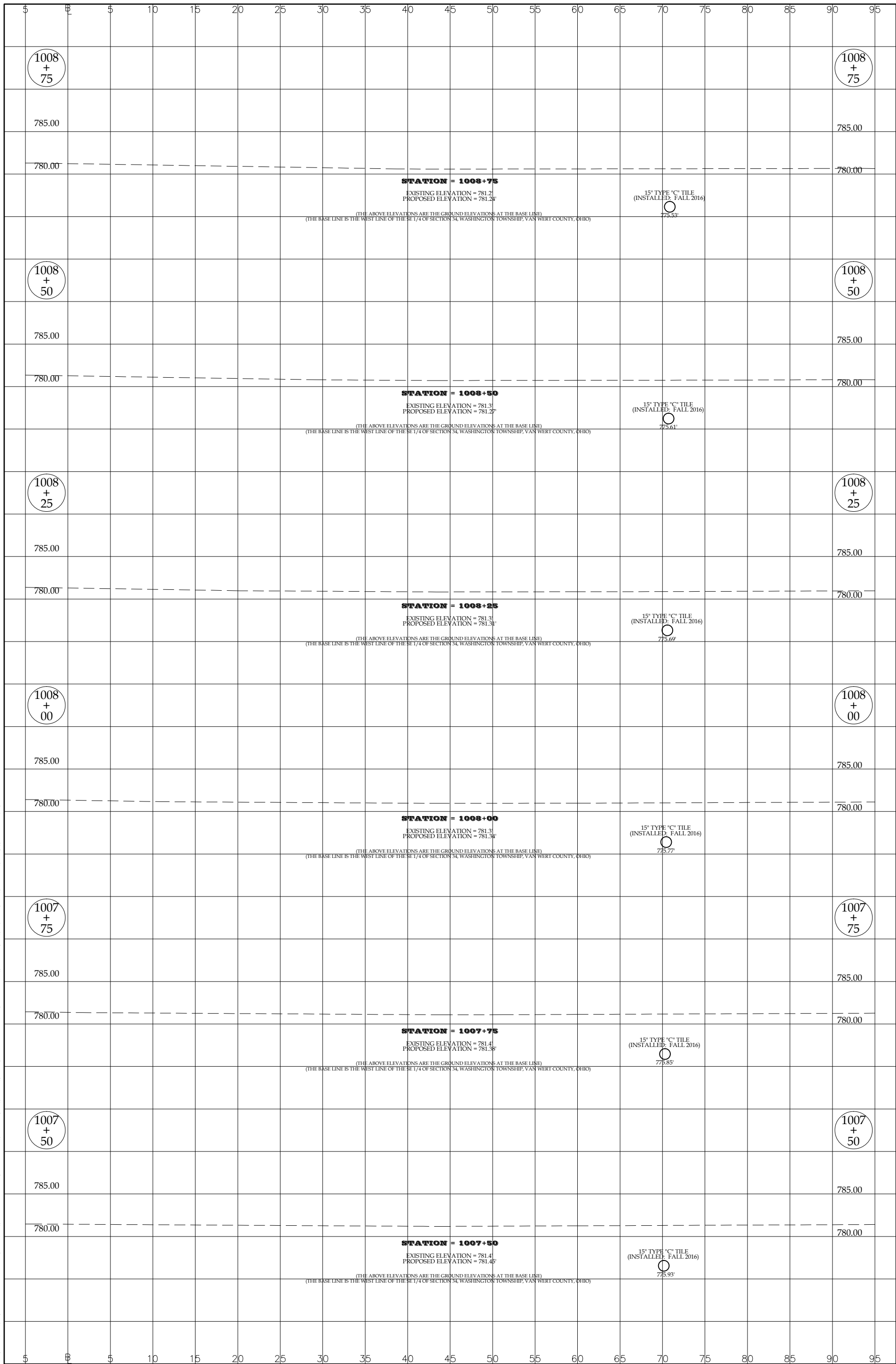


SHEET TOTALS

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 CUT VOLUME = 0 cubic feet = 0 cubic yards
 SEEDING AREA = 0 square feet = 0 square yards

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT	
FIWA REGION	5
FEDERAL PROJECT	

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ STORM SEWER OUTLET ~ STATION 1007+50 TO STATION 1008+75

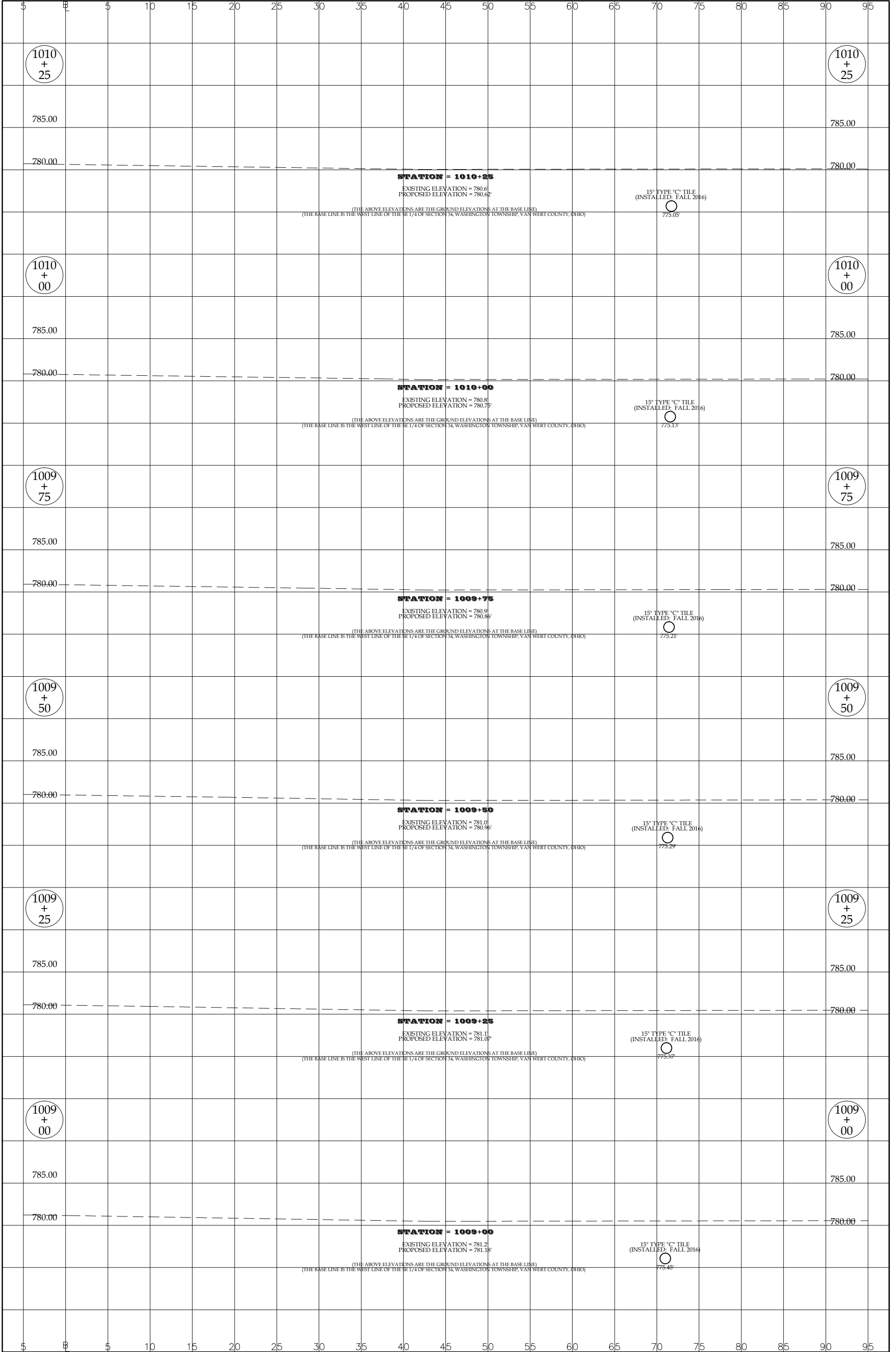


SHEET TOTALS

FILL VOLUME = 0 cubic feet = 0 cubic yards
 CUT VOLUME = 0 cubic feet = 0 cubic yards
 SEEDING AREA = 0 square feet = 0 square yards

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT	
FIWA REGION	5
FEDERAL PROJECT	

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ STATION 1009+00 TO STATION 1010+25

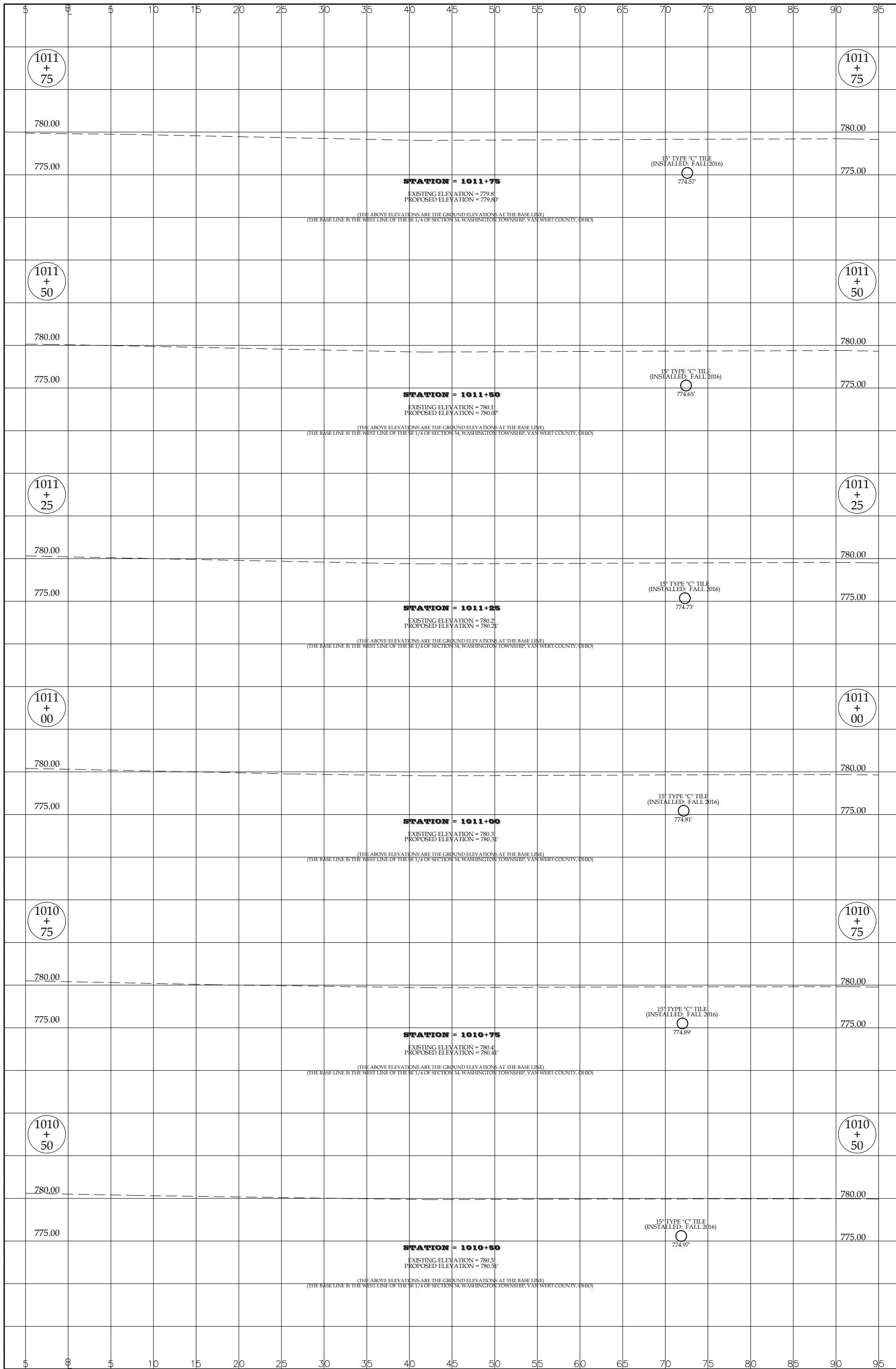


SHEET TOTALS

FILL VOLUME = 0 cubic feet = 0 cubic yards
CUT VOLUME = 0 cubic feet = 0 cubic yards
SEEDING AREA = 0 square feet = 0 square yards

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT	
FIWA REGION	5
FEDERAL PROJECT	

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ STORM SEWER OUTLET ~ STATION 1010+50 TO STATION 1011+75

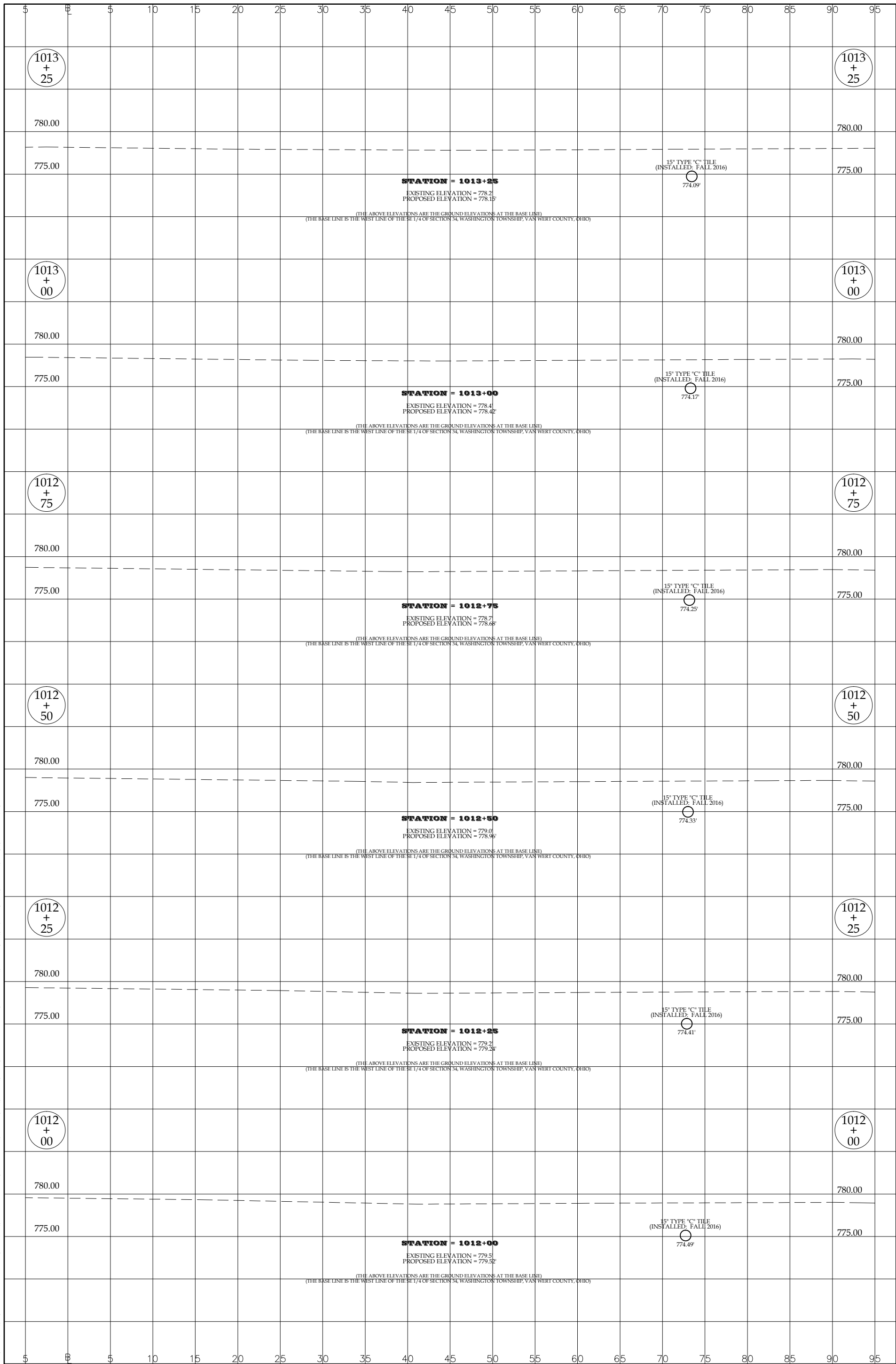


SHEET TOTALS

FILL VOLUME = 0 cubic feet = 0 cubic yards
 CUT VOLUME = 0 cubic feet = 0 cubic yards
 SEEDING AREA = 0 square feet = 0 square yards

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT	
FHWA REGION	5
FEDERAL PROJECT	

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT ~ STATION 1012+00 TO STATION 1013+25

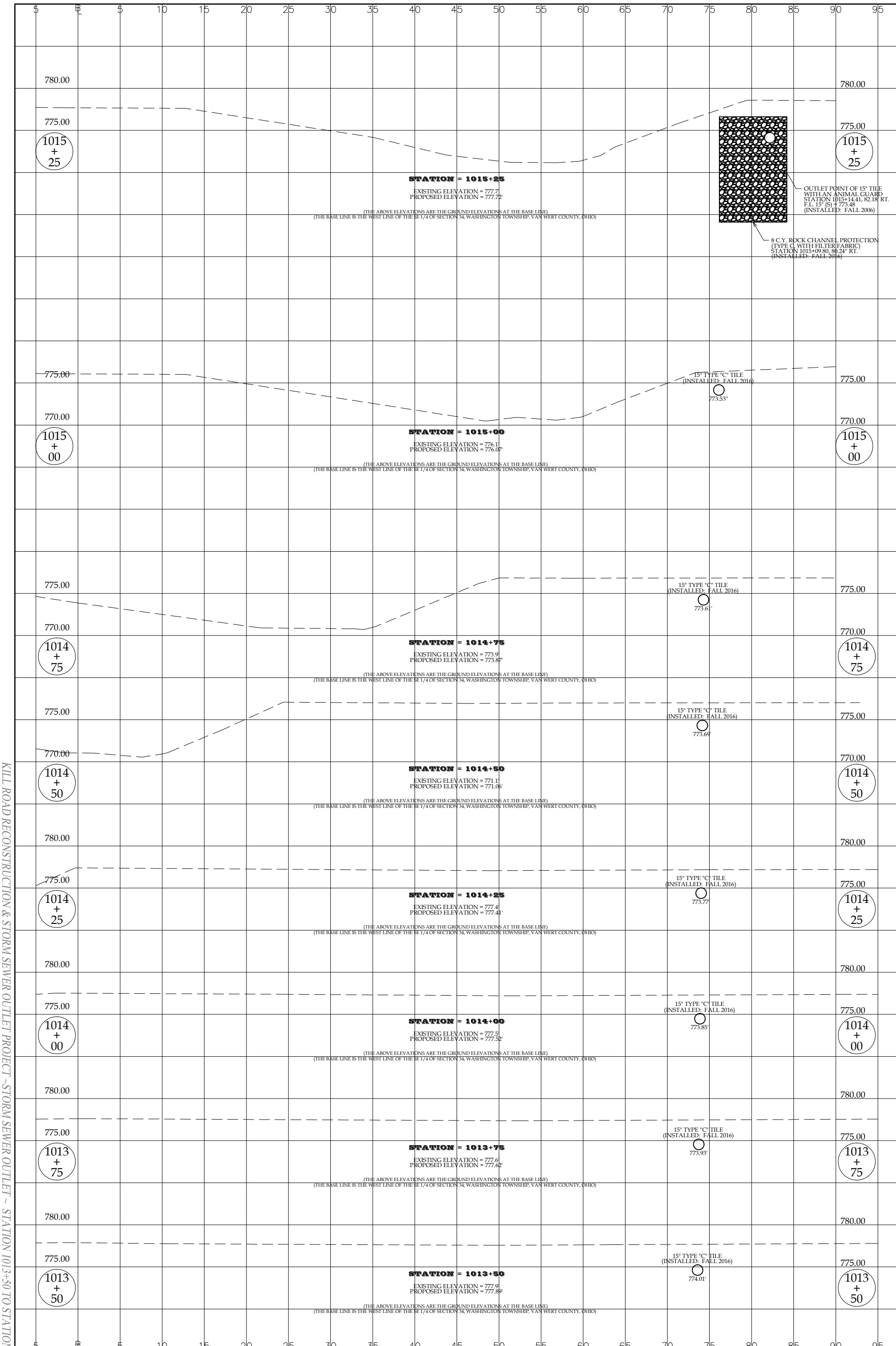


SHEET TOTALS

FILL VOLUME = 0 cubic feet = 0 cubic yards
CUT VOLUME = 0 cubic feet = 0 cubic yards
SEEDING AREA = 0 square feet = 0 square yards

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT	
FIWA REGION	5
FEDERAL PROJECT	

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57



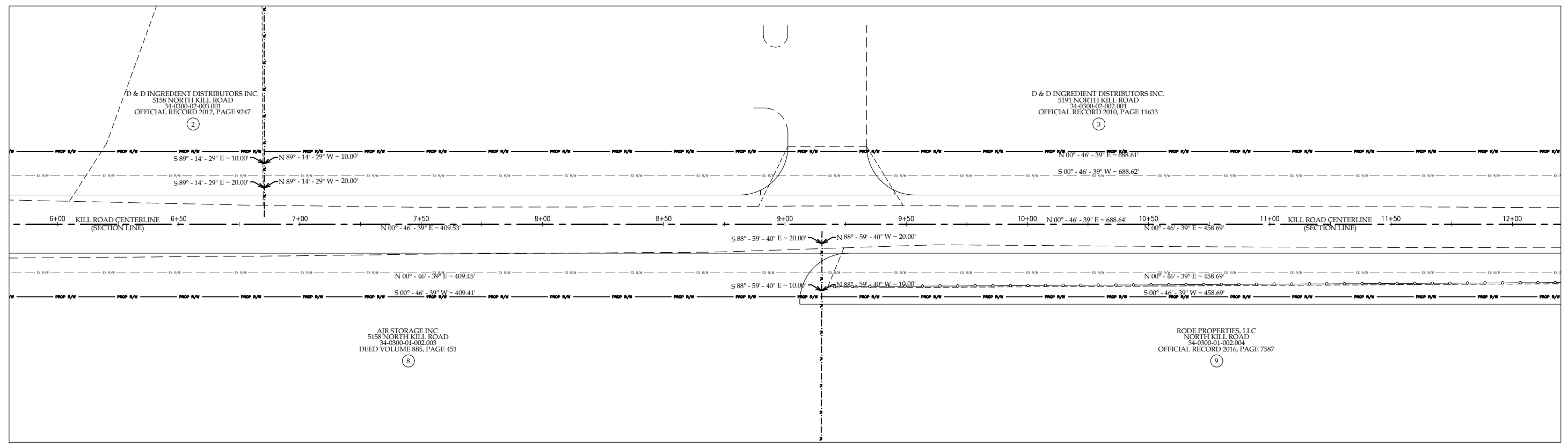
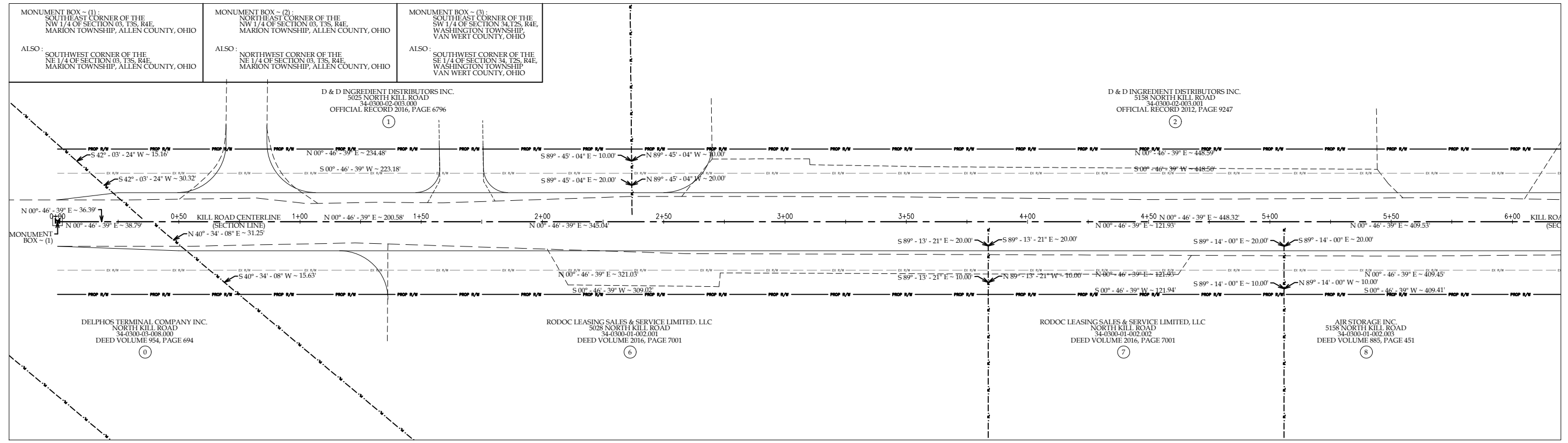
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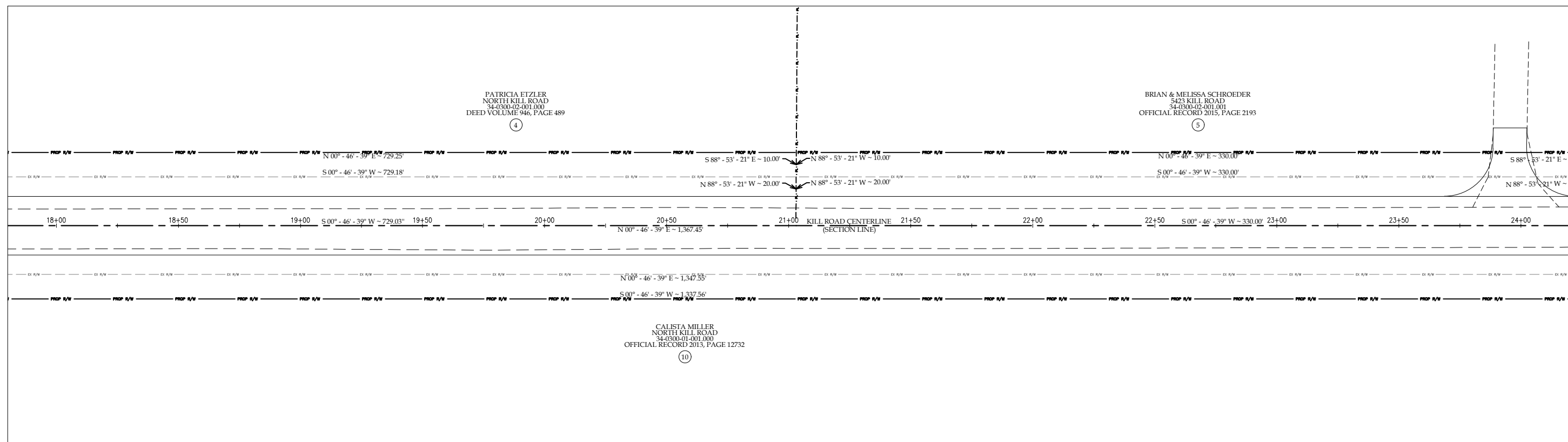
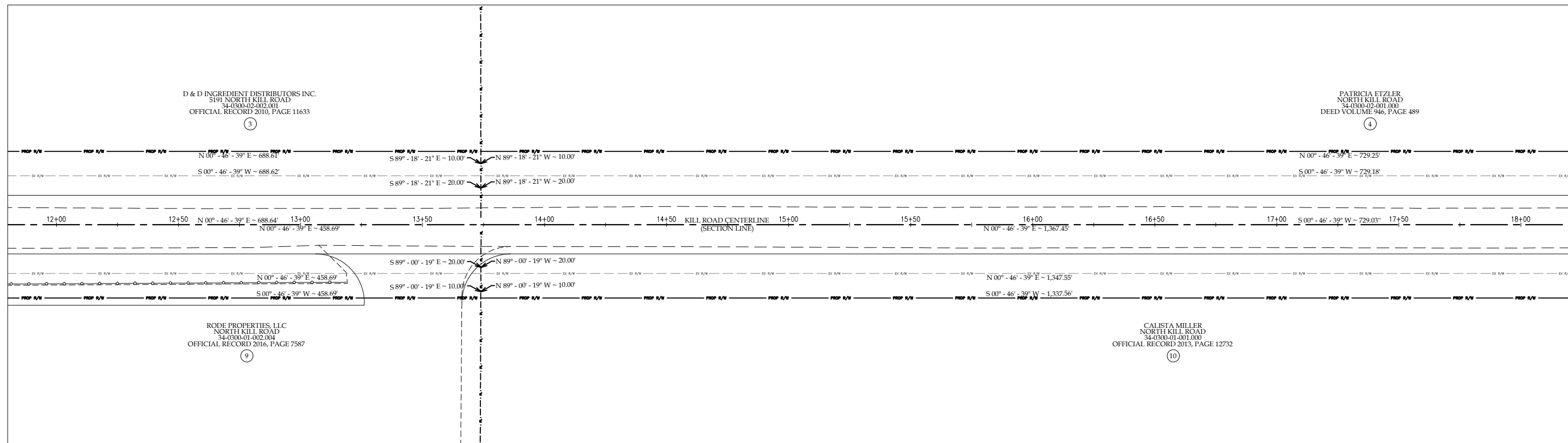
SHEET TOTALS

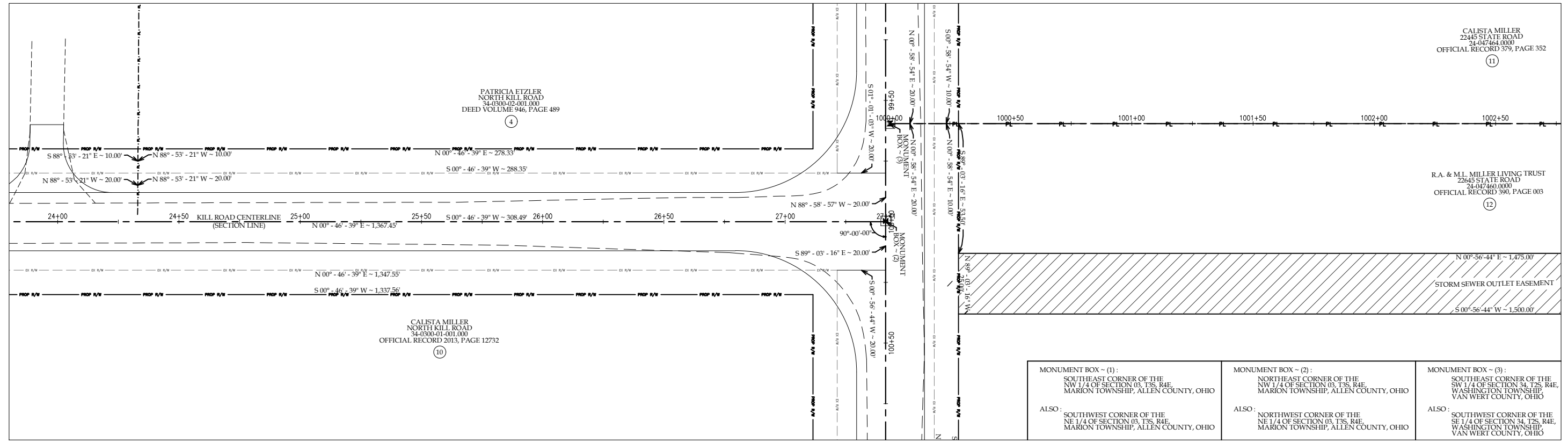
FILL VOLUME = 0 cubic feet = 0 cubic yards
 CUT VOLUME = 0 cubic feet = 0 cubic yards
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KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT	
FIHWA REGION	5
FEDERAL PROJECT	

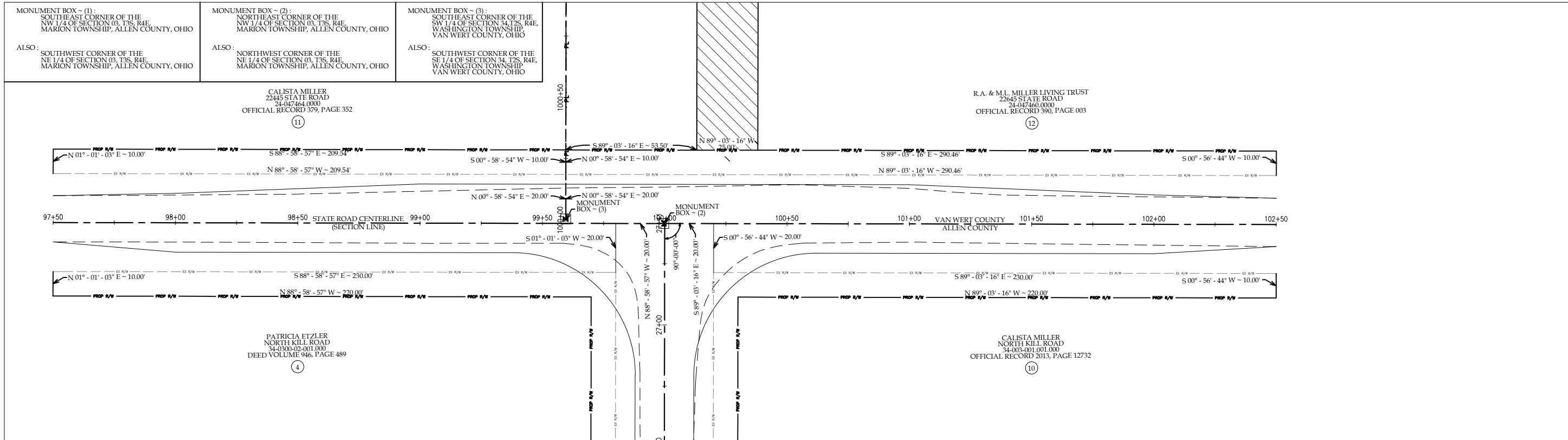




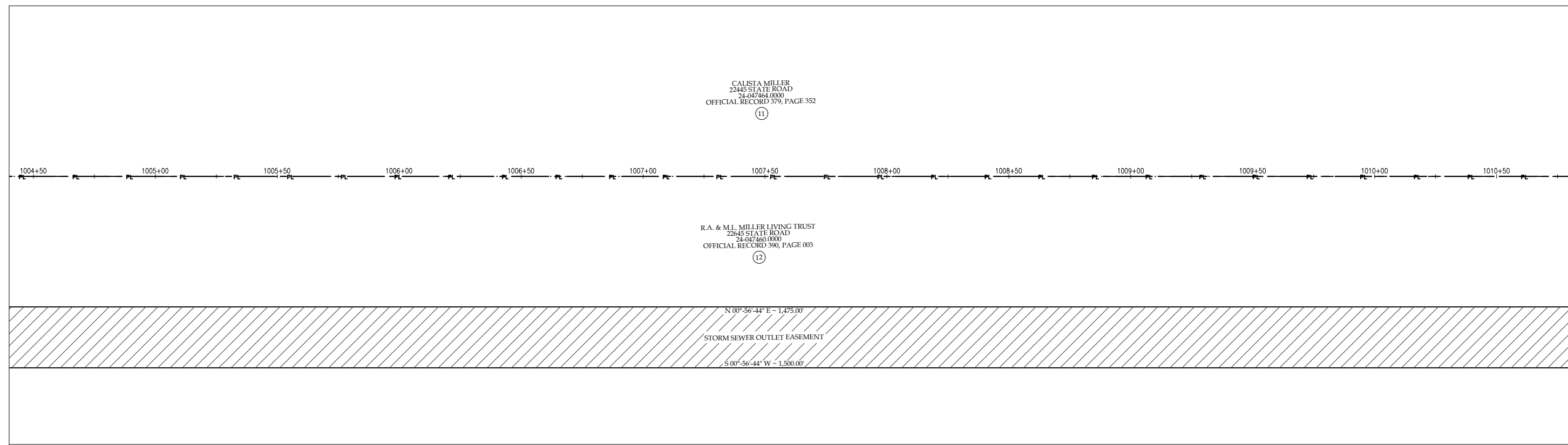
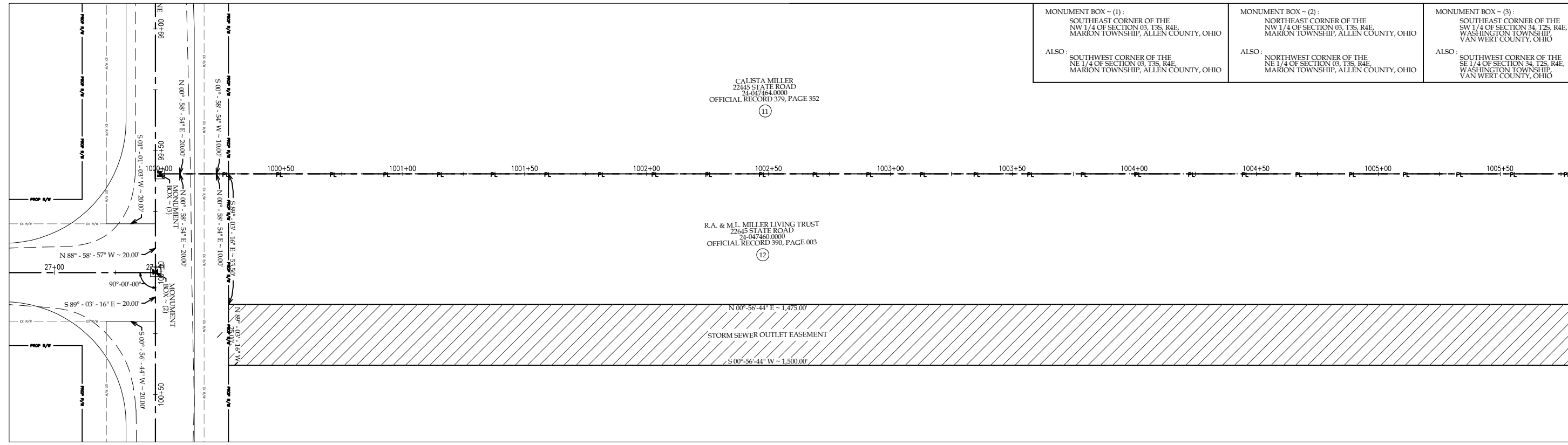




<p>MONUMENT BOX - (1): SOUTHEAST CORNER OF THE NW 1/4 OF SECTION 03, T3S, R4E, MARION TOWNSHIP, ALLEN COUNTY, OHIO</p> <p>ALSO: SOUTHWEST CORNER OF THE NE 1/4 OF SECTION 03, T3S, R4E, MARION TOWNSHIP, ALLEN COUNTY, OHIO</p>	<p>MONUMENT BOX - (2): NORTHEAST CORNER OF THE NW 1/4 OF SECTION 03, T3S, R4E, MARION TOWNSHIP, ALLEN COUNTY, OHIO</p> <p>ALSO: NORTHWEST CORNER OF THE NE 1/4 OF SECTION 03, T3S, R4E, MARION TOWNSHIP, ALLEN COUNTY, OHIO</p>	<p>MONUMENT BOX - (3): SOUTHEAST CORNER OF THE SW 1/4 OF SECTION 34, T2S, R4E, WASHINGTON TOWNSHIP, VAN WERT COUNTY, OHIO</p> <p>ALSO: SOUTHWEST CORNER OF THE SE 1/4 OF SECTION 34, T2S, R4E, WASHINGTON TOWNSHIP, VAN WERT COUNTY, OHIO</p>
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<p>MONUMENT BOX - (1): SOUTHEAST CORNER OF THE NW 1/4 OF SECTION 03, T3S, R4E, MARION TOWNSHIP, ALLEN COUNTY, OHIO</p> <p>ALSO: SOUTHWEST CORNER OF THE NE 1/4 OF SECTION 03, T3S, R4E, MARION TOWNSHIP, ALLEN COUNTY, OHIO</p>	<p>MONUMENT BOX - (2): NORTHEAST CORNER OF THE NW 1/4 OF SECTION 03, T3S, R4E, MARION TOWNSHIP, ALLEN COUNTY, OHIO</p> <p>ALSO: NORTHWEST CORNER OF THE NE 1/4 OF SECTION 03, T3S, R4E, MARION TOWNSHIP, ALLEN COUNTY, OHIO</p>	<p>MONUMENT BOX - (3): SOUTHEAST CORNER OF THE SW 1/4 OF SECTION 34, T2S, R4E, WASHINGTON TOWNSHIP, VAN WERT COUNTY, OHIO</p> <p>ALSO: SOUTHWEST CORNER OF THE SE 1/4 OF SECTION 34, T2S, R4E, WASHINGTON TOWNSHIP, VAN WERT COUNTY, OHIO</p>
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CALISTA MILLER
22445 STATE ROAD
24-047464.0000
OFFICIAL RECORD 379, PAGE 352

(11)

R.A. & M.L. MILLER LIVING TRUST
22645 STATE ROAD
24-047460.0000
OFFICIAL RECORD 390, PAGE 003

(12)

N 00°56'44" E ~ 1,475.00'

STORM SEWER OUTLET EASEMENT

S 00°56'44" W ~ 1,500.00'

N 00°56'44" E
32.36'

1010+00 1010+50 1011+00 1011+50 1012+00 1012+50 1013+00 1013+50 1014+00 1014+50 1015+00 1015+50 1016+00

ADDITIONAL RIGHT - OF - WAY SUMMARY

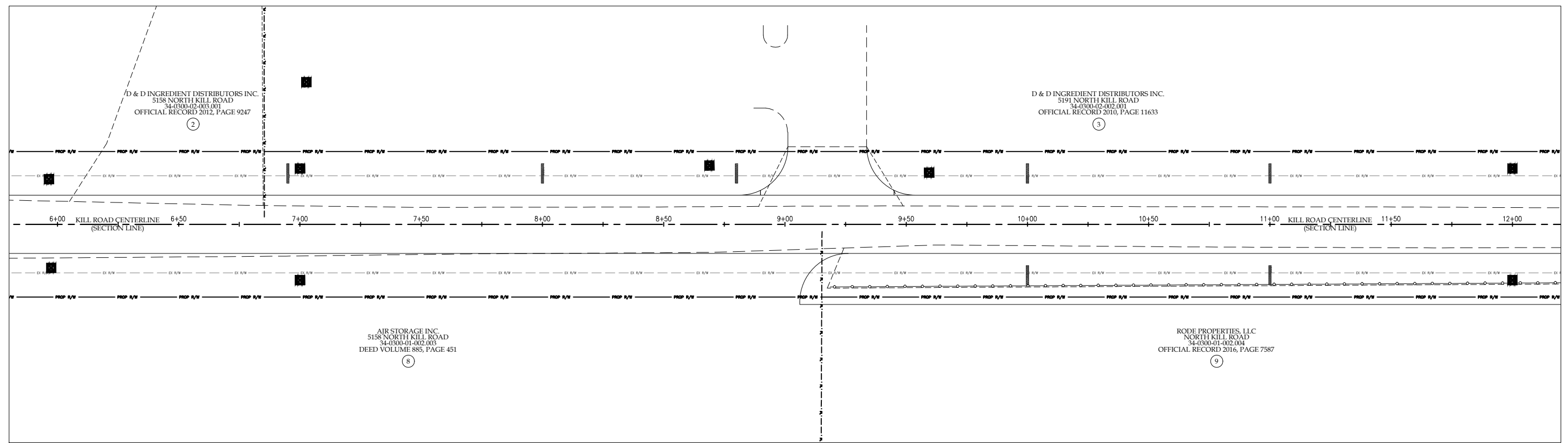
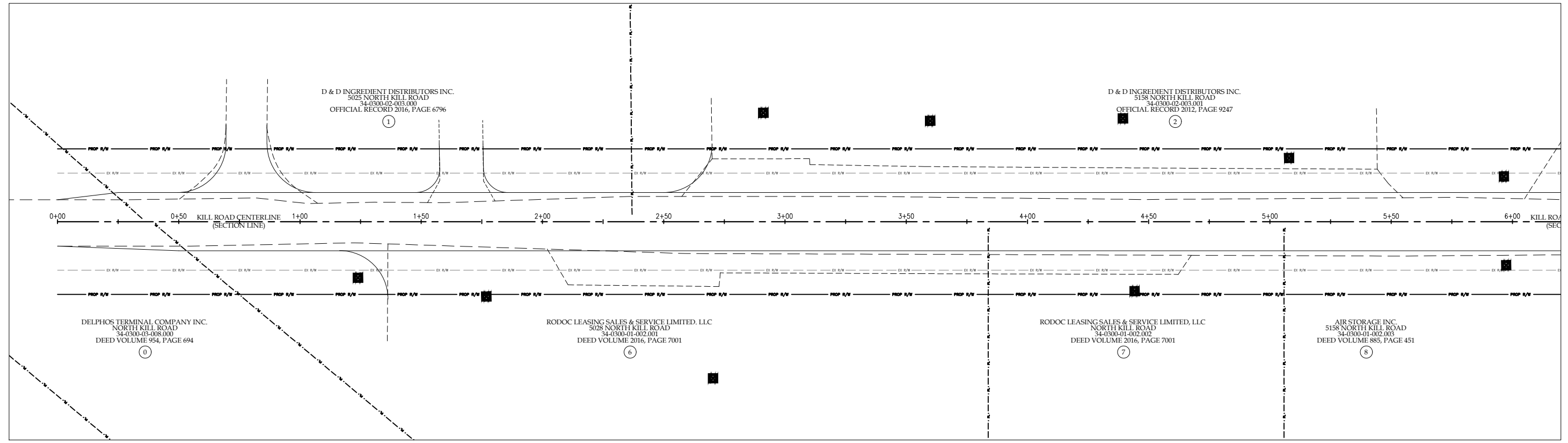
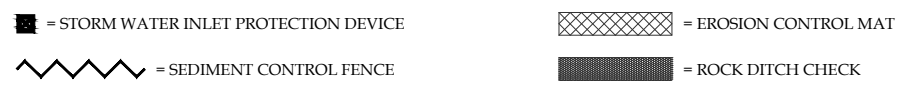
KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT				OHIO
				FHWA REGION 5
DRAWN BY: Z.J.G.	CHECKED BY: D.R.L.	DESIGNED BY: Z.J.G.	DATE: 9-14-2015	FEDERAL PROJECT

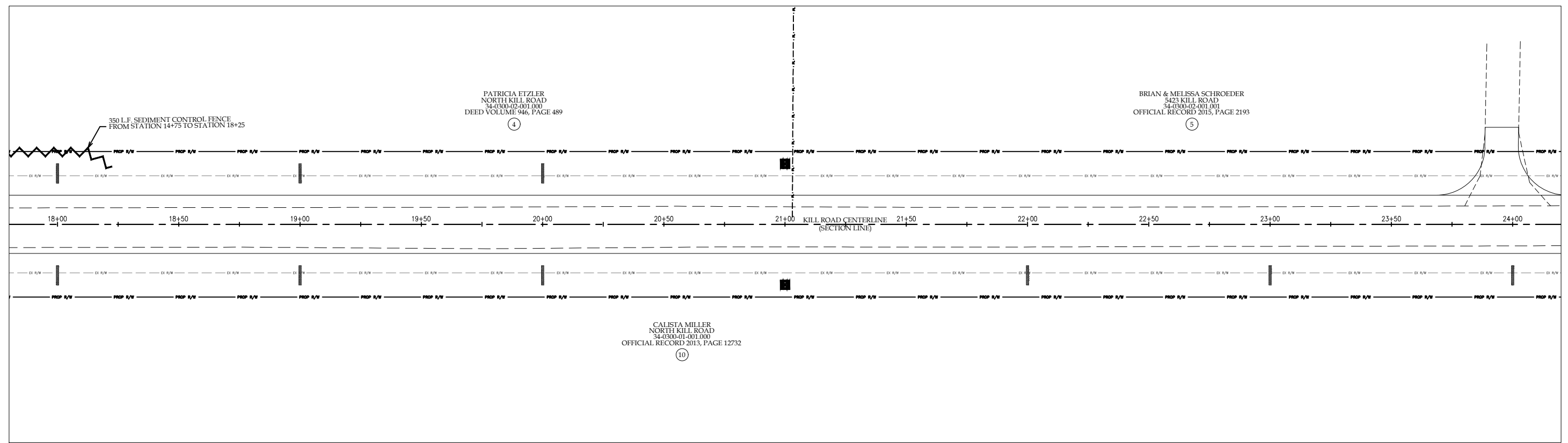
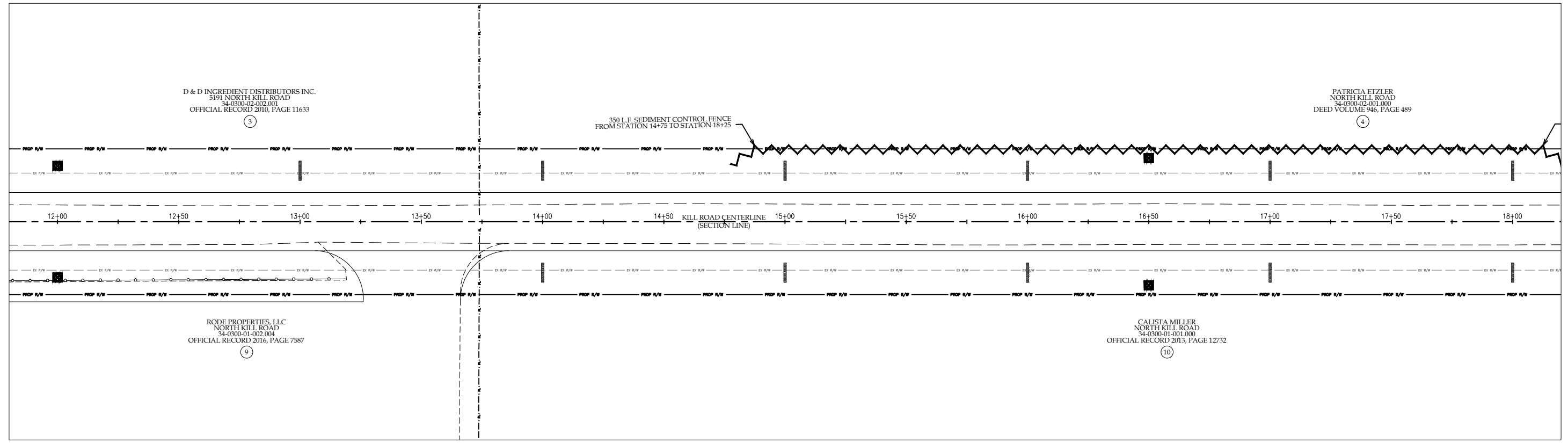
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57
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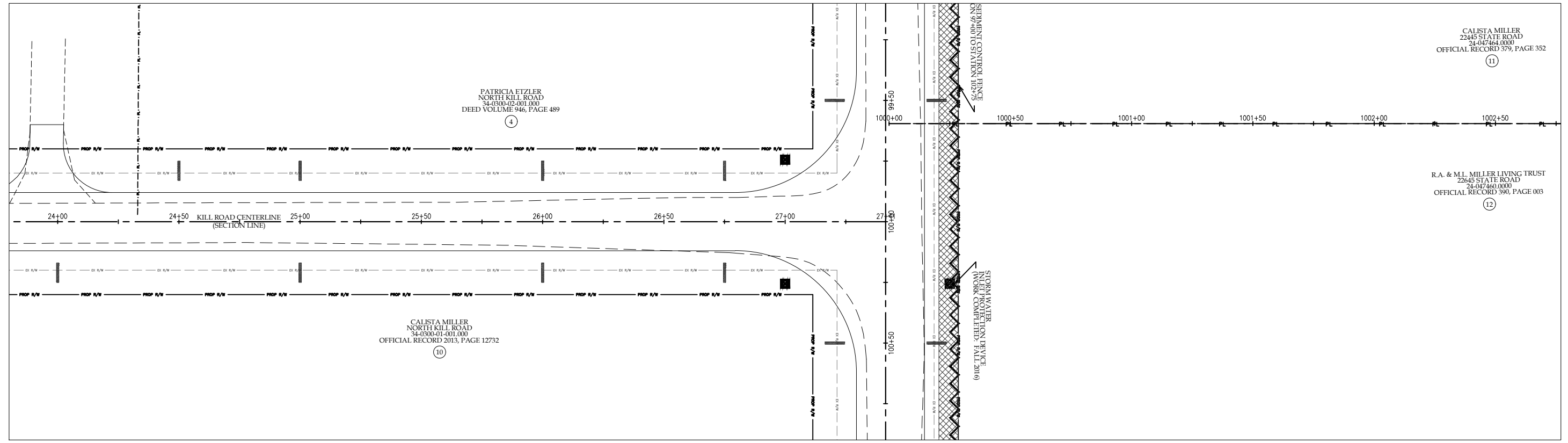
PARCEL ACQUISITION REFERENCE NUMBER	SHEET NUMBER	PARCEL OWNER	PARCEL NUMBER	DEED VOLUME	PAGE NUMBER	TOTAL ACRES PARCEL INCLUDING RIGHT - OF - WAY	PROPOSED ACRES INSIDE RIGHT - OF - WAY	EXISTING ACRES INSIDE RIGHT - OF - WAY	TOTAL ACRES INSIDE RIGHT - OF - WAY	TOTAL ACRES PARCEL EXCLUDING RIGHT - OF - WAY
1-P	44	D & D INGREDIENTS DISTRIBUTORS, INC.	34-0300-02-003.000	2016	06796	2.490	0.053	0.097	0.150	2.340
2-P	44	D & D INGREDIENTS DISTRIBUTORS, INC.	34-0300-02-003.001	2012	09247	21.744	0.103	0.206	0.309	21.435
3-P	44-45	D & D INGREDIENTS DISTRIBUTORS, INC.	34-0300-02-002.001	2010	11633	20.344	0.158	0.316	0.474	19.870
4-P (SOUTH)	45	PATRICIA ETZLER	34-0300-02-001.000	0948	00489	17.820	0.167	0.682	0.966	16.854
4-P (NORTH)	46	PATRICIA ETZLER	34-0300-02-001.000	0948	00489	17.820	0.117	0.682	0.966	16.854
5-P	45-46	BRIAN & MELISSA SCHROEDER	34-0300-02-001.001	2015	02193	2.500	0.076	0.152	0.228	2.272
6-P	44	RODOC LEASING	34-0300-01-002.001	2016	07001	1.200	0.072	0.153	0.225	0.975
7-P	44	RODOC LEASING	34-0300-01-002.002	2016	07001	1.000	0.028	0.056	0.084	0.916
8-P	44	AJR STORAGE, INC.	34-0300-01-002.003	0855	00451	11.711	0.094	0.188	0.282	11.429
9-P	44-45	RODE PROPERTIES, LLC	34-0300-01-002.004	2016	07587	4.076	0.105	0.211	0.316	3.760
10-P	45-46	CALLISTA MILLER	34-0300-01-001.000	2013	12732	77.270	0.360	2.318	2.678	74.592
11-P	47	CALLISTA MILLER	24-047464.000	0379	00352	41.110	0.048	0.606	0.654	40.446
12-P	47	R.A. & M.L. MILLER	24-047460.000	0390	00003	44.730	0.068	0.606	0.674	44.066
12-E	48-49	R.A. & M.L. MILLER	24-047460.000	0390	00003	44.730	0.854 (A)	-----	-----	-----

(A) ~ THE EASEMENT ACREAGE WILL NOT BE PURCHASED BY ALLEN COUNTY. THE EASEMENT IS TO ALLOW ALLEN COUNTY ACCESS TO LEGALLY MAINTAIN THE OUTLET TILE.

ALLEN COUNTY ENGINEER BRION E. RHODES, P.E., P.S.			
ADDITIONAL RIGHT - OF - WAY SUMMARY			
KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT			
<small>SECTION 03, T3S, R4E, MARION TOWNSHIP, ALLEN COUNTY, OHIO SECTION 34, T2S, R4E, WASHINGTON TOWNSHIP, VAN WERT COUNTY, OHIO</small>			
DRAWN BY: Z.J.G.	CHECKED BY: D.R.L.	DESIGNED BY:	DATE: 9-15-2015





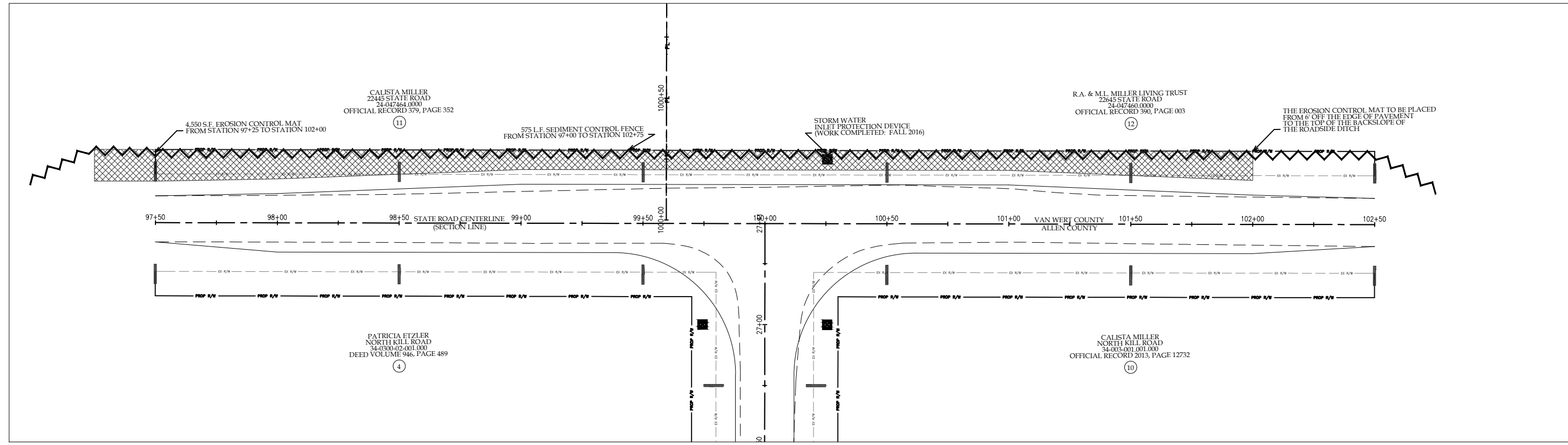


CALISTA MILLER
22445 STATE ROAD
24-047464.0000
OFFICIAL RECORD 379, PAGE 352
(11)

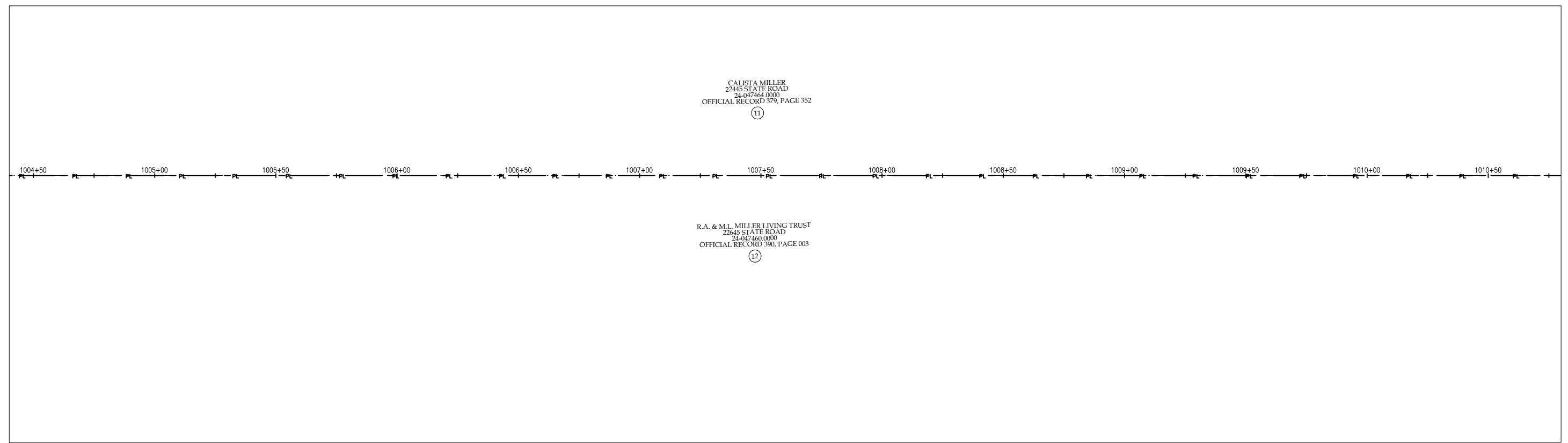
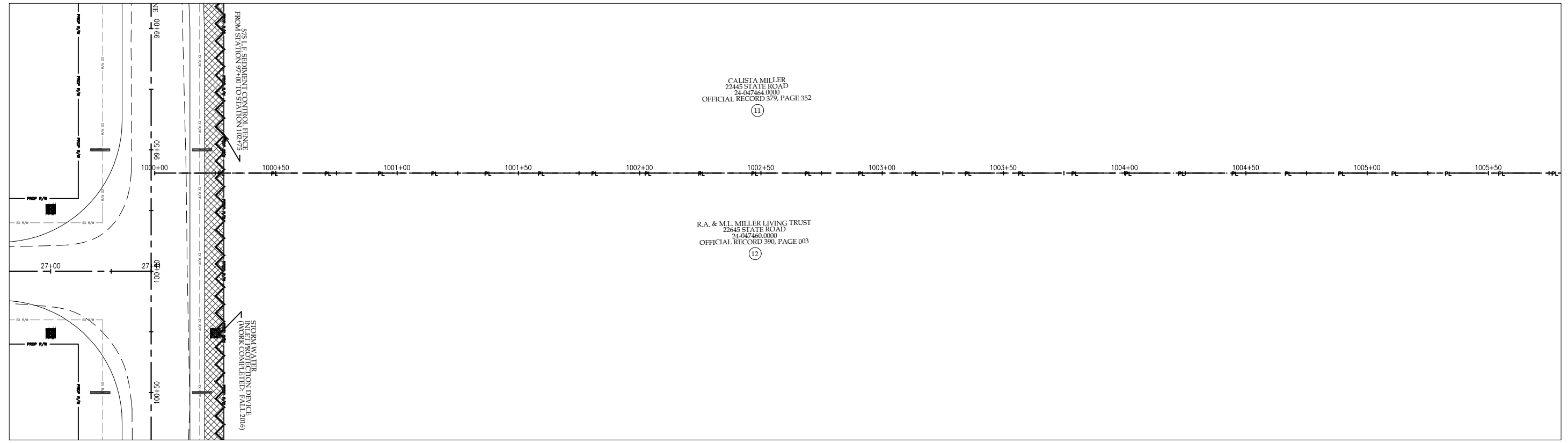
R.A. & M.L. MILLER LIVING TRUST
22645 STATE ROAD
24-047464.0000
OFFICIAL RECORD 390, PAGE 003
(12)


PATRICIA ETZLER
NORTH KILL ROAD
34-030042-001.000
DEED VOLUME 946, PAGE 489
(4)

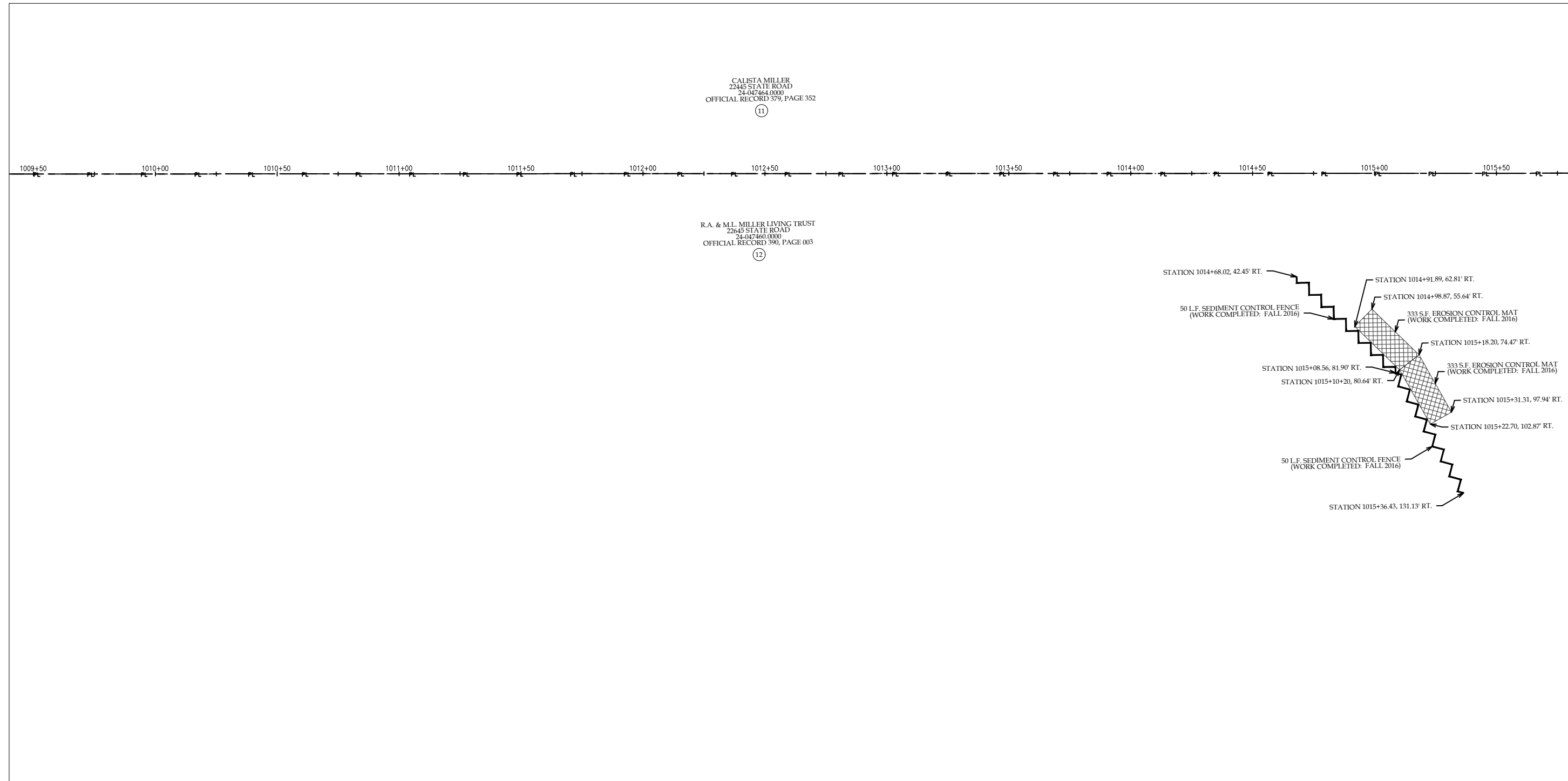
CALISTA MILLER
NORTH KILL ROAD
34-030041-001.000
OFFICIAL RECORD 2013, PAGE 12732
(10)



-  = STORM WATER INLET PROTECTION DEVICE
-  = EROSION CONTROL MAT
-  = SEDIMENT CONTROL FENCE
-  = ROCK DITCH CHECK



-  = STORM WATER INLET PROTECTION DEVICE
-  = EROSION CONTROL MAT
-  = SEDIMENT CONTROL FENCE
-  = ROCK DITCH CHECK



STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NOTES & DETAILS

KILL ROAD RECONSTRUCTION & STORM SEWER OUTLET PROJECT		OHIO	57
SECTION 03, T3S, R4E, MARION TOWNSHIP		FWHA REGION 5	57
ALLEN COUNTY, OHIO & VAN WERT COUNTY, OHIO		FEDERAL PROJECT	

DANDY BAG®

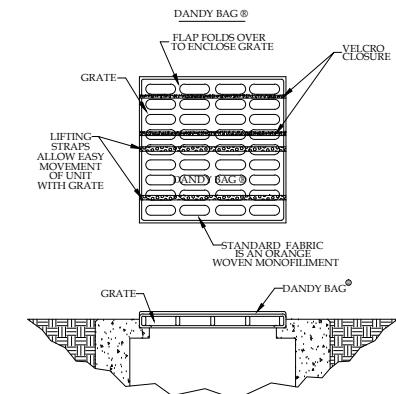
Installation and Maintenance Guidelines

INSTALLATION:

The empty Dandy Bag® should be in placed over the grate as the grate stands on end. If using optional oil absorbents; place absorbent pillow in pouch, on the bottom (below-grade side) of the unit. Attach absorbent pillow in tether loop. Tuck the enclosure flap inside to completely enclose the grate. Holding the lifting devices (do not rely on the lifting devices to support the entire weight of the grate), place the grate into the frame.

MAINTENANCE:

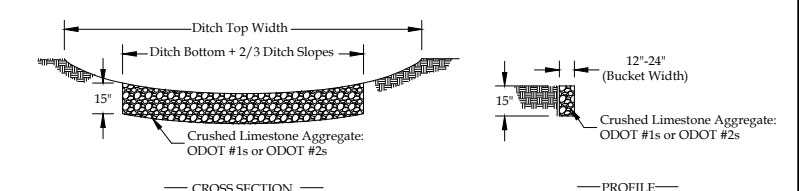
Remove the accumulated sediment and debris from the surface and vicinity of the unit after each storm event. Remove sediment that has accumulated within the containment area of the Dandy Bag® as needed. If using optional oil absorbents, remove and replace the absorbent pillow when near saturated.



DITCH ROCK CHECKS

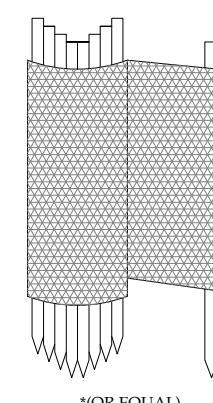
DITCH ROCK CHECK LOCATIONS									
KILL ROAD					STATE ROAD				
6+95 LT.	13+00 LT.	18+00 LT. & RT.	24+00 RT.	97+50 LT. & RT.	100+50 LT. & RT.				
8+00 LT.	14+00 LT. & RT.	19+00 LT. & RT.	24+50 LT.	98+50 LT. & RT.	101+50 LT. & RT.				
8+80 LT.	15+00 LT. & RT.	20+00 LT. & RT.	25+00 LT. & RT.	99+50 LT. & RT.	102+50 LT. & RT.				
10+00 LT. & RT.	16+00 LT. & RT.	22+00 RT.	26+00 LT. & RT.						
11+00 LT. & RT.	17+00 LT. & RT.	23+00 RT.	27+00 LT. & RT.						

DITCH ROCK CHECK MATERIALS CALCULATIONS	
CRUSHED LIMESTONE AGGREGATE = ODOT #1s OR ODOT #2s	
17.52 CUBIC YARDS	
21.02 TONS	
ASSUMED DITCH ROCK CHECK DIMENSIONS:	
1' WIDE X (DITCH BOTTOM (2') + 2/3 OF DITCH SLOPES) LONG X 1.25' DEEP	
ASSUMED WEIGHT OF ODOT #1s OR ODOT #2s:	
2,400 POUNDS / CUBIC YARD = 1.2 TONS / CUBIC YARD	



ROCK CHECK NOTES:

- EACH ROCK CHECK MUST BE COMPACTED BY A MINIMUM OF ONE PASS OVER THE ENTIRE SURFACE OF THE ROCK CHECK WITH EITHER TRACKED EQUIPMENT OR RUBBER Tired EQUIPMENT.
- THE FINAL ROCK CHECK SURFACE MUST BE FLUSH WITH THE FINISHED ELEVATION OF THE ROAD SIDE DITCH BOTTOM.

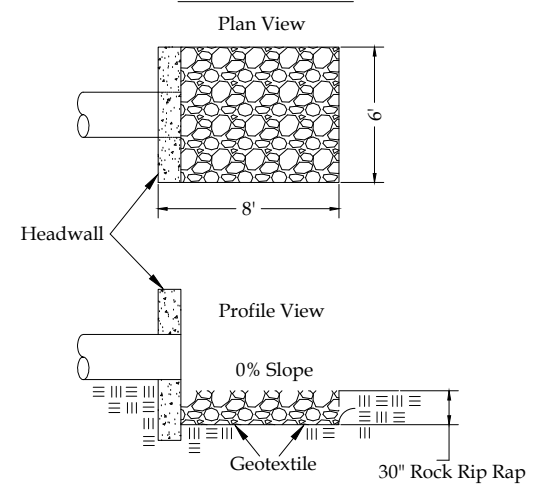


*(OR EQUAL)

NOTES:

- THE CONTRACTOR WILL COMPLY WITH ALL OEPA PERMITS.
- SEE CONSTRUCTION SEQUENCE AND STORM WATER POLLUTION PREVENTION NOTES.
- THE GENERAL LOCATION OF THE STAGING AREA IS NOT SHOWN. THE STAGING AREA SHALL BE ESTABLISHED ON 12" OF ODOT 304 AGGREGATE BASE. IF AN AGGREGATE BASE COURSE IS USED, THEN THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE STONE SUCH THAT IT IS REPLENISHED WHEN THE DEPTH IS LESS THEN 6" OR REMOVED AND REPLACED IF THE STONE IS MUD LADEN.
- ALL PERSONNEL INVOLVED WITH CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE STATE AND LOCAL SANITARY REGULATIONS. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY SANITARY FACILITIES AT THE SITE THROUGHOUT THE CONSTRUCTION PHASE WHICH MUST BE UTILIZED BY ALL CONSTRUCTION PERSONNEL AND WILL BE SERVICED BY A COMMERCIAL OPERATOR.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL NON-SEDIMENT POLLUTION CONTROLS AT THIS SITE THAT PROHIBIT NON-SEDIMENT POLLUTANTS FROM DISCHARGING INTO RUNOFF OR INTO THE GROUND AND MUST DISPOSE OF THEM IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, STATE AND FEDERATE REGULATORY AUTHORITIES. IT IS PROHIBITED TO BURN, BURY OR POUR OUT ONTO THE GROUND, DITCH OR INTO A STORM SEWER, SOLVENTS, PAINTS, STAINS, GASOLINE, DIESEL FUEL, MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CEMENT, CURING COMPOUND, AND OTHER SUCH TOXIC OR HAZARDOUS WASTE. STORAGE TANKS SHALL BE LOCATED IN DIKED AREAS AWAY FROM DRAINAGE CHANNELS AND THE DIKED AREA SHALL HOLD 110% OF THE LARGEST TANK OR TRUCK. SHOULD THE CONTRACTOR FAIL TO PREVENT NON-SEDIMENT POLLUTION AT THIS SITE, HE MUST IMMEDIATELY REMEDIATE THE SITE TO THE LOCAL, STATE AND FEDERAL REGULATORY AUTHORITIES APPROVAL ENTIRELY AT HIS OWN EXPENSE.
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE A MINIMUM OF ONE SOLID WASTE DISPOSAL RECEPTACLE AND HAVE THIS RECEPTACLE EMPTIED BY A CONTRACTED TRASH DISPOSAL SERVICE AND HAULED AWAY FROM THE SITE AS NECESSARY. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS ARE ALLOWED TO BE DISCHARGED FROM THE SITE WITH STORM WATER. ALL SOLID WASTE, CONSTRUCTION ACTIVITIES, MUST BE COLLECTED AND PLACED IN THESE RECEPTACLES. THE GENERAL LOCATION MAY BE DETERMINED TO BEST SUIT THE CONTRACTOR'S METHODS WITH THE APPROVAL OF THE ENGINEER
- ALL EXISTING CATCH BASINS AND INLETS WITHIN THE WORK LIMITS SHALL HAVE INLET PROTECTIONS INSTALLED AROUND THEM, UNLESS THE SEWER HAS BEEN MADE INACTIVE BY PRIOR WORK. EXISTING CATCH BASINS AND INLETS WHICH ARE TO BE REMOVED OR ABANDONED DURING THIS PROJECT SHALL NOT HAVE THE INLET PROTECTION REMOVED UNTIL AFTER THE DOWNSTREAM STORM STRUCTURE IS PLUGGED FROM STORM FLOW. ALL PROPOSED STORM CATCH BASINS AND INLETS SHALL HAVE INLET PROTECTION.
- GROUNDWATER, STORMWATER AND SEDIMENT BEARING DRAINAGE SHALL FILTERED OR PONDED TO ALLOW REMOVAL OF SILT, SEDIMENT, DEBRIS AND OTHER POLLUTANTS PRIOR TO DISCHARGE FOR THE SITE. THE SETTLED MATERIAL SHALL BE DISPOSED OF IN A STABILIZED LOCATION WHERE AT IT WILL NOT BE CARRIED OFF-SITE OR INTO A STORM SEWER BY RAINFALL. WATER WITH A VISIBLE SHEEN MUST BE REMOVED BY USE OF A VACUUM TRUCK.
- AS A MINIMUM ALL STOCKPILES SHALL HAVE SILT FENCE PLACED 10' OFF AND ALONG THE BOTTOM FOOTPRINT OF THE FINAL STOCKPILE CONFIGURATION. IF THE STOCKPILE WILL BE INACTIVE FOR 21 DAYS OR MORE, THEN THE SURFACE SHALL BE SEEDED, OR STABILIZED WITHIN 7 DAYS OF THE LAST ACTIVITY.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL DUST CONTROL AND SHALL SUPPLY WATER TRUCKS OR OTHER MEAN NECESSARY TO CONTROL DUST GENERATED BY CONSTRUCTION ACTIVITIES ON THE SITE TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE TO PREVENT DISCHARGE OF WASTE CONCRETE AND/OR WASH WATER FROM CONCRETE TRUCKS FROM MIXING WITH RUNOFF AND LEAVING THE SITE. THE CONTRACTOR SHALL SIZE THE WASHOUT PIT TO HANDLE ALL PROPOSED CONCRETE OPERATIONS AND SHALL MAINTAIN THE PIT SUCH THAT ALL CONCRETE TRUCKS CAN USE IT TO WASHOUT. ALL CURED RESIDUE FROM THE PIT SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. THE GENERAL LOCATION MAY BE DETERMINED TO BEST SUIT THE CONTRACTOR'S METHODS WITH THE APPROVAL OF THE ENGINEER. A TYPICAL CONCRETE WASHOUT STRUCTURE DETAIL IS SHOWN.
- DURING CONSTRUCTION INLET PROTECTION "DANDY BAGS"® SHALL BE PROVIDED AND MAINTAINED AT ALL EXISTING AND PROPOSED INLETS. WHERE INDICATED, FABRIC BARRIER SHALL BE CLEANED SHOULD IT BE CLOGGED WITH DEBRIS. ALL PROTECTION SHALL BE REMOVED WHEN THE JOB IS COMPLETE.
- SEDIMENT CONTROL FENCE SHALL BE INSTALLED AS INDICATED ON THE PLAN SHEETS. SEE THE TABLE ON THIS SHEET.
- ALL DISTURBED AREAS SHALL BE FINISH GRADED AND SEEDED, SODDED, OR LANDSCAPED AS SOON AS PRACTICAL.
- THE CONTRACTOR IS RESPONSIBLE TO CLEAN UP ALL MUD TRACKED FROM THE SITE.

SPECIFICATIONS FOR OUTLET PROTECTION



OUTLET PROTECTION NOTES:

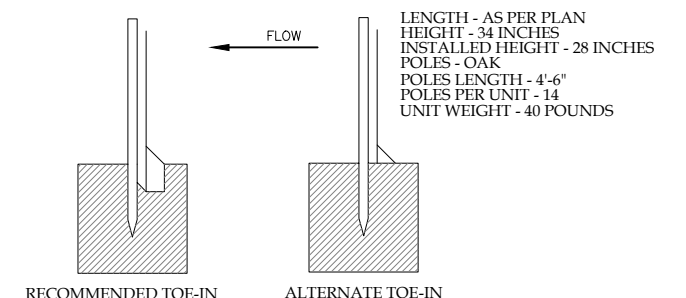
- THE SUBGRADE OF THE FILTER AND RIP RAP SHALL BE PREPARED TO THE REQUIRED LINES AND GRADES, AS SHOWN ON THE PLANS.
- THE RIP RAP SHALL CONFORM TO THE GRADING LIMITS AS SHOWN ON THE PLAN.
- GEOTEXTILE SHALL BE WOVEN OR NON-WOVEN MONOFILAMENT YARN AND SHALL MEET THE FOLLOWING:
 - * THICKNESS: 20-60 MILS
 - * GRAB STRENGTH: 90-120 LBS.
 - * ASTM D-1777 OR ASTM D-1682
- RIP RAP MAY BE PLACED BY EQUIPMENT BUT SHALL BE PLACED IN A MANNER TO PREVENT DAMAGE TO THE GOETEXTILE.

EROSION CONTROL NOTES:

- ALL SEDIMENT CONTROL DEVICES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION WORK COMMENCES.
- SEDIMENT CONTROL FENCE SHALL REMAIN AROUND ALL CATCH BASINS UNTIL THE PROJECT IS COMPLETE AND VEGETATION IS FULLY ESTABLISHED.
- ROUTINE INSPECTIONS AND RECORDS SHALL BE MADE ON ALL EROSION CONTROL DEVICES BY THE CONTRACTOR. IN THE EVENT ANY EROSION CONTROL DEVICE IS REMOVED OR DAMAGED, CONSTRUCTION SHALL BE STOP UNTIL IT IS REPLACED OR REPAIRED.
- ALL SWALES AND FINAL GRADED AREAS SHALL BE SEEDED AND MULCHED IMMEDIATELY AFTER THEIR CONSTRUCTION. SEE PERMANENT SEEDING SPECIFICATIONS CHART ON THIS SHEET.
- SEDIMENT BASINS, SEDIMENT TRAPS AND PERIMETER SEDIMENT CONTROLS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN SEVEN DAYS FROM THE START OF GRUBBING AND SHALL CONTINUE UNTIL THE UPLAND AREAS ARE PERMANENTLY STABILIZED.
- DANDY BAGS (OR EQUIVALENT) SHALL BE PLACED ON ALL CURB INLETS THAT DO NOT DRAIN TO A SEDIMENT BASIN.
- A COPY OF THE SEDIMENTATION AND EROSION CONTROL PLAN SHALL BE KEPT AVAILABLE FOR INSPECTION ON THE CONSTRUCTION SITE AT ALL TIMES THROUGH THE TERM OF THE PROJECT.
- INSTALL TEMPORARY GRAVEL CONSTRUCTION DRIVE: 20' (WIDTH) X 50' (LENGTH) X 6" (DEPTH) USING ODOT #1s STONE AND #2s STONES
- ALL AREAS OF GRADING WITH A SLOPE LESS THAN 3:1 SHALL BE FERTILIZED, SEEDED AND MULCHED WITH STRAW.
- ALL AREAS OF GRADING WITH A SLOPE OF 3:1 OR GREATER SHALL BE FERTILIZED, SEEDED, MULCHED WITH STRAW AND APPLY EROSION CONTROL MATTING PER THE MANUFACTURE'S SPECIFICATIONS. ATTACH THE MATTING USING NORTH AMERICAN GREEN "BIO-STAKE" OR 6" STEEL STAPLES FOLLOWING THE MANUFACTURE'S SPACING RECOMMENDATIONS.
- INSTALL SEDIMENT CONTROL FENCE AS SHOWN ON THE PLAN SHEETS.
- ROCK CHECKS SHALL BE INSTALLED IN THE ROAD SIDE DITCHES PER THE "DITCH ROCK CHECK LOCATIONS" TABLE PROVIDED ON THIS SHEET.

FILTER FABRIC FENCE DETAIL

* ECONOFENCE IS A PRE-ASSEMBLED SILT FENCE UNIT CONSTRUCTED OF TERRATEX EC FABRIC, INDUSTRIAL NETTING AND TREATED OAK POSTS. IT IS RECOMMENDED FOR USE IN SILT CONTROL AS DESCRIBED IN THE DETAIL INSTALLATION INSTRUCTION.

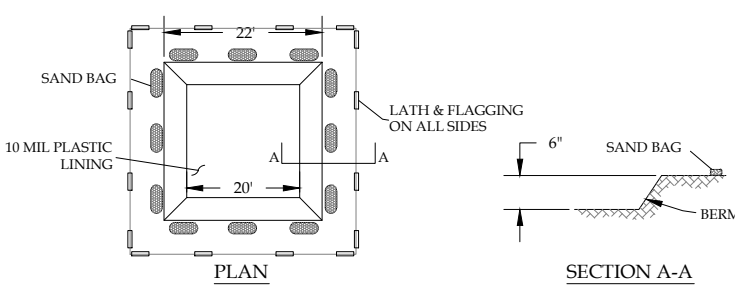


- RECOMMENDED TOE-IN
- ALTERNATE TOE-IN
- SELECT TOE-IN METHOD TO BE USED (SEE ILLUSTRATION)
- DIG MINIMUM 6"X6" TRENCH WHERE FENCE IS TO BE INSTALLED TO INSURE SUFFICIENT FILL MATERIAL IS AVAILABLE.
- UNROLL ECONOFENCE BY SECTION (POLE TO POLE) ALONG TRENCH OR PREDETERMINED
- DRIVE POST INTO UNDISTURBED SOIL UNTIL SUPPORT NETTING IS IN THE TRENCH OR BEGINNING TO LAY ON THE GROUND.
- PLACE FILL MATERIAL IN TRENCH OR ON FABRIC FLAP AND TAMP BY FOOT.

NOTES:

- INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
- REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
- SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

CONCRETE WASHOUT AREA DETAIL



MATTING SPECIFICATIONS:

- MATERIAL:** EXCEISOIR MATTING SHALL BE 48" WIDE AND WEIGH 0.75 LBS. /SQ. FT. OR MORE. JUTE MATTING SHALL BE 48" WIDE AND WEIGH 1.2 LBS. / SQ. FT. OR MORE. MATTING MADE OF OTHER MATERIAL AND PROVIDING EQUAL OR GREATER STABILIZATION THAN THE ABOVE MAY BE SUBSTITUTED, IF APPROVED BY THE ENGINEER.
- SITE PREPARATION:** AFTER THE SITE HAS BEEN SHAPED AND GRADED, A SEEDBED SHALL BE PREPARED THAT IS RELATIVELY FREE OF FOREIGN MATERIAL, CLODS, OR ROCKS THAT ARE GREATER THAN 1.5" IN DIAMETER. THE SITE SHALL BE PREPARED TO ENSURE THAT THE MATTING HAS GOOD SOIL CONTACT AND THE MATTING WILL NOT "BRIDGE" OR "TENT" OVER OBSTRUCTIONS.
- PLANTING:** LIME AND FERTILIZER SHALL BE USED ACCORDING TO THE RECOMMENDATIONS OF THE SOIL TEST OR SEEDING PLAN. SEED ACCORDING TO THE MATTING MANUFACTURE'S RECOMMENDATIONS OR, FOR EXCEISOIR MATTING, SEED AREA TO BE PROTECTED BEFORE INSTALLATION; OR, FOR JUTE MATTING APPLY HALF THE SEED BEFORE INSTALLATION AND HALF THE SEED AFTER INSTALLATION.
- MATTING SHALL BE HELD IN PLACE AS RECOMMENDED BY THE MANUFACTURER AS ADEQUATE FOR THE SITE CONDITIONS OR WITH SOD STAPLES USED FOR FASTENING SOD, JUTE MATTING, OR EXCEISOIR MATTING AND OTHER EROSION CONTROL MATERIALS TO THE SOIL SURFACE. SOD STAPLES SHALL BE #11 OR HEAVIER AND BE 6" - 10" IN LENGTH. IN LOOSE OR SANDY SOIL, MORE AND/OR LONGER STAPLES MY BE USED.
- MATTING SHALL BE INSTALL AS SPECIFIED BY THE MANUFACTURER AS APPROPRIATE FOR THE SITE CONDITIONS.

PERMANENT SEEDING SPECIFICATIONS		
SEED TYPE	SEED APPLICATION RATE	
	LBS. / ACRE	LBS. / 1,000 SQ. FT.
DWARF FESCUE	90	2.08
TALL FESCUE	40	0.92
KENTUCKY BLUEGRASS	5	0.12

ALLEN COUNTY ENGINEER
BRION E. RHODES, P.E., P.S.

**STORM WATER POLLUTION PLAN (SWPPP)
NOTES & DETAILS**

KILL ROAD RECONSTRUCTION
&
STORM SEWER OUTLET
PROJECT

SECTION 03, T3S, R4E, MARION TOWNSHIP, ALLEN COUNTY, OHIO
SECTION 34, T2S, R4E, WASHINGTON TOWNSHIP, VAN WERT COUNTY, OHIO

DRAWN BY: Z.J.G. CHECKED BY: D.R.L. DESIGNED BY: DATE: 10-1-2015