

INDEX OF SHEETS

- 1 COVER SHEET, INDEX OF SHEETS & STANDARDS
- 2 GENERAL NOTES, PAVEMENT DESIGN & LEGEND
- 3 SUMMARY OF QUANTITIES
- 4 TYPICAL CROSS SECTIONS
- 5 SCHEDULE OF QUANTITIES
- 6 - 10 PLAN AND PROFILE
- 11 STORM WATER POLLUTION PREVENTION PLAN
- 12 - 14 BRIDGE PLAN
- 15 RAILING DETAILS
- 16 - 21 CROSS SECTIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
IMPROVEMENTS TO TRAIL**

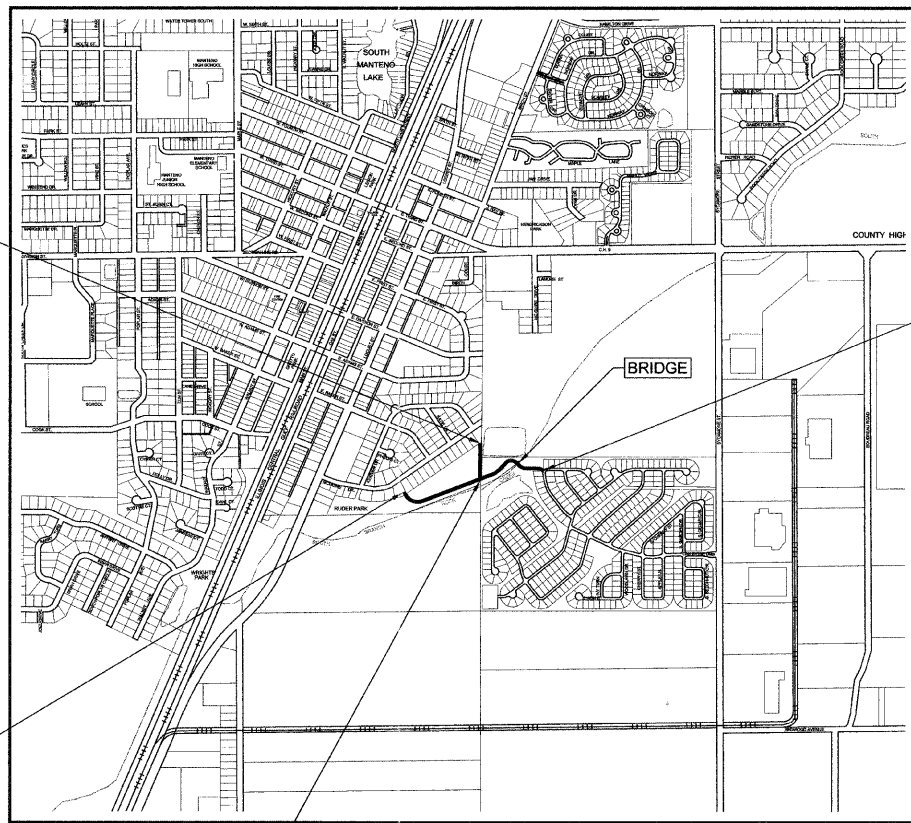
VILLAGE OF MANTENO
GREENWAYS TRAIL
SECTION 08-00058-00-BT
PROJECT NO. TCSP-IL08(027)
JOB NO. C-93-107-09

STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 280001-05 TEMPORARY EROSION CONTROL SYSTEMS
- 424001-05 CURB RAMPS FOR SIDEWALKS
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15'(4.5m) AWAY
- 701006-03 OFF-ROAD OPERATIONS, 2L, 2W, 15'(4.5m) TO 24'(600mm) FROM PAVEMENT EDGE
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701901-01 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-02 SIGN PANEL ERECTION DETAILS
- 720011-01 METAL POSTS FOR SIGNS, MARKERS, AND DELINEATORS
- 729001-01 APPLICATIONS OF TYPE "A" AND "B" METAL POSTS (FOR SIGNS & MARKERS)
- 780001-02 TYPICAL PAVEMENT MARKINGS

DESIGN DESIGNATION - PATH

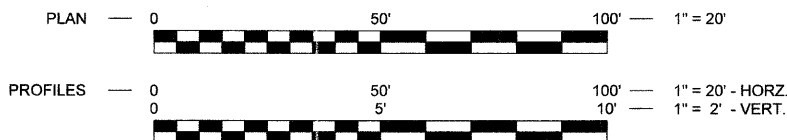
DESIGN SPEED = 20 MPH
STA. 1+00 TO STA. 18+52
STA. 10+00 TO STA. 103+98
2011 ADT = 0 PEDS 0 BIKES
DESIGN 2031 ADT = 50 PEDS 100 BIKES
SEE SHEET 2 FOR PAVEMENT DESIGN



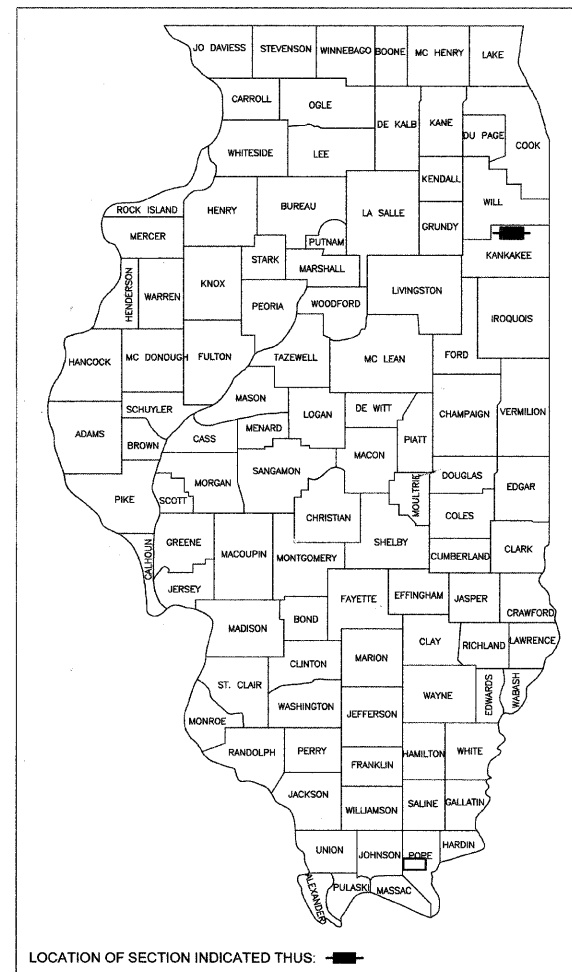
LOCATION MAP
NOT TO SCALE

GROSS LENGTH OF IMPROVEMENT = 2151.53 FEET = 0.407 MILES
NET LENGTH OF IMPROVEMENT = 2151.53 FEET = 0.407 MILES

STANDARD SCALES



CALL J.U.L.I.E. BEFORE YOU DIG
(Joint Utility Locating Information For Excavators)
PH.# 1-800-892-0123



LOCATION OF SECTION INDICATED THIS: [Symbol]

PREPARED IN ACCORDANCE WITH THE
POLICIES OF THE FEDERAL AID
PROCEDURES FOR LOCAL HIGHWAY
IMPROVEMENTS (FAPLHI)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED July 28, 20 11
Timothy O. Neugebauer
VILLAGE PRESIDENT, VILLAGE OF MANTENO

PASSED August 2, 20 11
[Signature]
DISTRICT 3 IMPLEMENTATION ENGINEER

RELEASED FOR BID
BASED ON LIMITED REVIEW August 2, 20 11
[Signature]
ACTING DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER



[Signature] 7-28-11
STEVEN R. McBURNEY P.E.# 062-058252 DATE
EXPIRATION DATE OF P.E. LICENSE: 11-30-11

REVISIONS				
NO.	DATE	BY	GENERAL DESCRIPTION	SHEETS CHANGED

FILE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	**	KANKAKEE	21	1

CONTRACT NO. 87397
FED. ROAD DIST. NO. ILLINOIS
** 08-00058-00-BT

TYSON ENGINEERING, INC.
CONSULTING CIVIL ENGINEERS
LAND SURVEYORS
DESIGN FIRM LICENSE #184-001136
367 SOUTH SCHUYLER AVENUE
KANKAKEE, ILLINOIS 60901
PHONE (815) 932-7406

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REVISIONS			
NO.	DATE	BY	DESCRIPTION

COVER SHEET

GREENWAYS TRAIL
MANTENO, ILLINOIS

SECTION 08-00058-00-BT	
DATE: 7/15/11	JOB NO. E08110
SCALE: N/A	FILE NO.
DRAWN BY: MRG	SHEET 1
CHECKED BY: SRM	

GENERAL NOTES

THE WORK UNDER THIS CONTRACT CONSISTS OF THE FOLLOWING:

1. DATUM USED FOR SURVEY IS U.S.G.S.
2. ALL STATIONING IS ALONG CENTERLINE OF PATH, EXCEPT AS OTHERWISE NOTED.
3. NO MULTI-UNIT VEHICLES SHALL BE USED ON OR ALONG THE PATH.
4. THE THICKNESS OF BITUMINOUS MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATION FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
5. EXCEPT AS NOTED IN THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
6. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS BITUMINOUS LIFTS.
7. ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR WILL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.
8. ALL SAWCUTTING OF EXISTING PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE MINIMUM SAW CUT DEPTH IN THE PAVEMENT SHALL BE 2 INCHES, UNLESS OTHERWISE SPECIFIED IN A DETAIL IN THE PLANS.
9. THE CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE.
10. ALL REQUIRED SAW CUTTING SHALL BE INCIDENTAL TO THE REMOVAL PAY ITEM INVOLVED.
11. FOR NEW CONSTRUCTION, PLACE SIDEWALK RAMPS FOR THE HANDICAPPED (STD 2356) AT ALL LOCATIONS WHERE PROPOSED SIDEWALK ABUTS CURB AT STREET ENTRANCES.
12. THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION SHALL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR SHALL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO COMPENSATION WILL BE ALLOWED.
13. ABANDONED UNDERGROUND UTILITY ITEMS WHICH CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
14. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS, OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 1-800-892-0123. A MINIMUM OF FORTY EIGHT (48) HOURS ADVANCE NOTICE IS REQUIRED.
16. ALL WATER MAINS SHALL BE PROTECTED FROM CONTAMINATION. STATE CODE SECTION 653.119 EXPLAINS THE METHODS OF PROTECTION AND WHEN THEY ARE REQUIRED.
17. THERMOPLASTIC PAVEMENT MARKINGS AND PAINT STRIPING QUANTITIES ARE APPROXIMATE ONLY. PAYMENT WILL BE MADE FOR ACTUAL QUANTITIES USED AS MEASURED IN THE FIELD.
18. THE FOLLOWING UTILITY COMPANIES HAVE UTILITIES WITHIN THE LIMITS OF CONSTRUCTION. ADJUSTMENT OF UTILITY LOCATIONS WILL BE MADE BY THE OWNER, UNLESS OTHERWISE NOTED ON THE PLANS.

LEGEND

- EXIST. POWER POLE
- EXIST. STREET LIGHT
- EXIST. ELECTRICAL PEDESTAL
- EXIST. FIRE HYDRANT
- EXIST. WATER VALVE
- EXIST. WATER METER
- EXIST. INLET
- EXIST. MANHOLE
- EXIST. SIGN
- EXIST. SOIL BORE LOCATION
- EXIST. TRASH RECEPTACLE
- EXIST. BOLLARD
- EXIST. PINE / TREE / BUSH
- EXIST. STORM SEWER
- EXIST. SANITARY SEWER
- EXIST. GAS MAIN, 2"
- EXIST. FENCE
- EXIST. EDGE OF PAVEMENT & SIDEWALK
- EXIST. CURB & GUTTER
- EASEMENT LINE
- PROPOSED SIGN
- PROPOSED BOLLARD
- PROPOSED FLARED END SECTION
- PROPOSED STORM SEWER
- PROPOSED SILT FENCE
- PROPOSED EDGE OF AGGREGATE
- PROPOSED TRAIL (SEE TYPICAL SECTION)
- DETECTABLE WARNINGS FOR CURB RAMPS ON SIDEWALKS

FALL RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	**	KANKAKEE	21	2

CONTRACT NO. 87397
 FED. ROAD DIST. NO. ILLINOIS
 FED. AID PROJECT

** 08-00058-00-BT

TYSON ENGINEERING, INC.
 CONSULTING CIVIL ENGINEERS
 LAND SURVEYORS
 DESIGN FIRM LICENSE #184-001136

367 SOUTH SCHUYLER AVENUE
 KANKAKEE, ILLINOIS 60901
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REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	7/28/11	NRD	REV. PER IDOT

GENERAL NOTES
PAVEMENT DESIGN
LEGEND

PROJECT:
GREENWAYS TRAIL
MANTENO, ILLINOIS

SECTION 08-00058-00-BT	
DATE: 7/11/15	JOB NO. E08110
SCALE: N/A	FILE NO.
DRAWN BY: MRG	SHEET
CHECKED BY: SRM	2

PAVEMENT DESIGN

GREENWAYS TRAIL
 STA. 1+00 to STA. 18+52
 STA. 100+00 to STA. 103+98

Shared use path
 D.P. - 20 years
 Design Traffic
 Existing ADT: 0% ped/bike
 Proposed ADT: 50/100 ped/bike
 Critical subgrade Eri: 3ksi

Subgrade support rating: fair
 mixture temperature: 78.5

USE: 3" HMA, 8" AGG

UTILITY	STATUS OF RELOCATION	
	DATE	
POWER COMMONWEALTH EDISON CO. 2500 SOUTH GOVERNORS HIGHWAY UNIVERSITY PARK, IL 60466	PRELIMINARY PLANS SET	5/4/11 NONE REQUIRED
	FINAL PLAN SET	_____
TELEPHONE AT&T 65 WEST WEBSTER JOLIET, IL 60431	PRELIMINARY PLANS SET	5/4/11 NONE REQUIRED
	FINAL PLAN SET	_____
CABLE TV COMCAST 17700 HOFFMAN WAY HOMEWOOD, IL 60430	PRELIMINARY PLANS SET	5/4/11 NONE REQUIRED
	FINAL PLAN SET	_____
GAS NORTHERN ILLINOIS GAS CO. 1844 FERRY ROAD NAPERVILLE, IL 60563	PRELIMINARY PLANS SET	5/4/11 NONE REQUIRED
	FINAL PLAN SET	_____
WATER AQUA ILLINOIS 1000 SOUTH SCHUYLER AVE. KANKAKEE, IL 60901	PRELIMINARY PLANS SET	5/4/11 NONE REQUIRED
	FINAL PLAN SET	_____

	HMA Level Binder	HMA Surface
PG Grade	PG58-22	PG58-22
Design Air Voids	4.0% @ N30	4.0% @ N30L
Mixture Composition	IL 9.5L	IL 9.5L
Friction Aggregate	-	Mixture C
Density Test Method	CORES	CORES

** Material shall be compacted to 93.0 - 97.4 percent of the maximum theoretical density, except that when placed as first lift on an unimproved subgrade the minimum percent compaction shall be 92.0 percent. The maximum theoretical density shall be determined from the moving average as specified in the QC/QA Specification.

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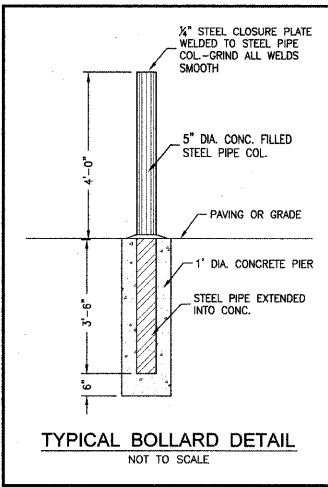
REVISIONS

NO.	DATE	BY	DESCRIPTION
1	7/28/11	NRD	REV. PER IDOT

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	ITEM	QUANTITY	UNIT
20200100	Earth Excavation	829	CU YD
20400800	Furnished Excavation	944	CU YD
21001000	Geotechnical Fabric for Ground Stabilization	2,303	SQ YD
21101615	Top Soil Furnish and Place, 4"	2546	SQ YD
25000115	Seeding, Class 1B	0.60	ACRE
25100115	Mulch, Method 2	0.60	ACRE
28000400	Perimeter Erosion Barrier	1,825	FOOT
28000500	Inlet and Pipe Protection	3	EACH
28100707	Stone Dumped Riprap, Class A4	125	SQ YD
35102000	Aggregate Base Course, Type B 8"	2303	SQ YD
40600615	Leveling Binder (Machine Method), N30	208	TON
40603305	Hot-Mix Asphalt Surface Course, Mix "C", N30	208	TON
42400200	Portland Cement Concrete Sidewalk 5 inch	100	SQ FT
42400800	Detectable Warnings	36	SQ FT
44000500	Combination Curb and Gutter Removal	20	FOOT
48101498	Aggregate shoulders, Type B, 4"	921	SQ YD
50300225	Concrete Structures	13.9	CU YD
50300280	Concrete Encasement	2.1	CU YD
50800205	Reinforcement Bars, Epoxy Coated	2,520	POUND
50901720	Bicycle Railing	40	FOOT
51201400	Furnishing Steel Piles HP10x42	90	FOOT
51202305	Driving Piles	90	FOOT
51203400	Test Pile Steel HP10x42	2	EACH
51204650	Pile Shoes	6	EACH
54213657	Precast Reinforced Concrete Flared End Sections 12"	2	EACH
54213669	Precast Reinforced Concrete Flared End Sections 24"	2	EACH
550A0050	Storm Sewer, Class A, Type 1 12"	64	FOOT
550A0120	Storm Sewer, Class A, Type 1 24"	40	FOOT
60603800	Combination Curb and Gutter, Type B-6.12	10	FOOT
67100100	Mobilization	1.00	L SUM
72000100	Sign Panel - Type 1	14.75	SQ FT
72900100	Metal Post - Type A	61	FOOT
78000200	Thermoplastic Pavement Marking - Line 4"	538.0	FOOT
78000600	Thermoplastic Pavement Marking - Line 12"	15	FOOT
* Z0004002	Bollards	2	EACH
* X0322508	Pedestrian Truss Superstructure	1,120	SQ FT
* Z0013111	Stabilized Construction Entrance	125	SQ YD
* X7010 216	Traffic Control and Protection (Special)	1.00	L SUM

* See Special Provisions
Δ Specialty Item
+ No RAP is allowed
Construction Code: 0028



PROJECT:
GREENWAYS TRAIL
MANTENO, ILLINOIS


SECTION
08-00058-00-BT

DATE:	7/15/11	JOB NO.	E08110
SCALE:	N/A	FILE NO.	
DRAWN BY:	MRG	SHEET	3
CHECKED BY:	SRM		

FED. AID DIST. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	**	KANKAKEE	21	4

CONTRACT NO. 87397
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

** 08-00058-00-BT



TYSON ENGINEERING, INC.
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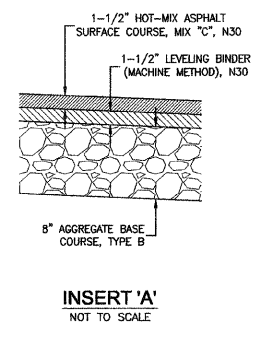
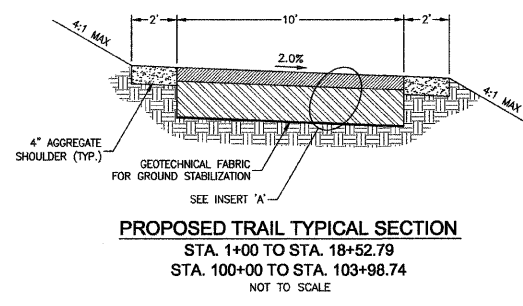
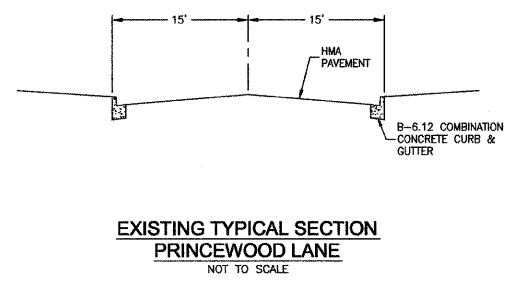
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REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	7/28/11	NRD	REV. PER IDOT

TYPICAL
CROSS SECTIONS

GREENWAYS TRAIL
MANTENO, ILLINOIS

SECTION 08-00058-00-BT	
DATE: 7/15/11	JOB NO. E08110
SCALE: N/A	FILE NO.
DRAWN BY: MRG	SHEET
CHECKED BY: SRM	4



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SCHEDULE OF QUANTITIES

PROJECT: **GREENWAYS TRAIL**
 MANTENO, ILLINOIS

SECTION 08-00058-00-BT

DATE:	7/15/11	JOB NO. E08110
SCALE:	N/A	FILE NO.
DRAWN BY:	MRG	SHEET 5
CHECKED BY:	SRM	

PAVEMENT SCHEDULE						
LOCATION	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (SQ YD)	AGGREGATE BASE COURSE TYPE B 8" (SQ YD)	AGGREGATE SHOULDERS TYPE B 4" (SQ YD)	HOT-MIX ASPHALT SURFACE COURSE MIX "C", N30 (TON)	LEVELING BINDER (MACHINE METHOD), N30 (TON)	COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12 (FOOT)
STA 1+00 TO 15+04.57	1561	1561	624	141	141	
STA 15+84.57 TO 18+52.79	298	298	119	27	27	
STA 18+52.79						10
STA 100+00 TO 103+98.74	444	444	178	40	40	
TOTAL	2303	2303	921	208	208	10

MISCELLANEOUS SCHEDULE					
LOCATION	BOLLARDS (EACH)	STORM SEWER CLASS A, TYPE 1		PRECAST REINFORCED CONCRETE FLARED END SECTIONS	
		12" (FOOT)	24" (FOOT)	12" (EACH)	24" (EACH)
STA 1+05	1				
STA 13+85			40		2
STA 16+40		64		2	
STA 18+47	1				
TOTAL	2	64	40	2	2

EROSION CONTROL SCHEDULE			
LOCATION	PERIMETER EROSION BARRIER (FOOT)	INLET AND PIPE PROTECTION (EACH)	STABILIZED CONSTRUCTION ENTRANCE (SQ YD)
STA 1+00			125
STA 1+00 TO 18+52.79	1825		
STA 13+85		1	
STA 14+13		1	
STA 16+40		1	
TOTAL	1825	3	125

PAVEMENT MARKING SCHEDULE			
LOCATION	THERMOPLASTIC PAVEMENT MARKING		
	LINE 4" (FOOT)	LINE 12" (FOOT)	
STA 1+00 TO 18+52	438		SKIP DASH YELLOW
STA 1+05		5	STOP BAR WHITE
STA 18+47		5	STOP BAR WHITE
STA 100+00 TO 103+99	100		SKIP DASH YELLOW
STA 100+12		5	STOP BAR WHITE
TOTAL	538	15	

TURF ESTABLISHMENT SCHEDULE			
LOCATION	TOP SOIL 4" (SQ YD)	SEEDING CLASS 1B (ARCE)	MULCH METHOD 2 (ACRE)
STA 1+00 TO 15+04.57	1391	0.3	0.3
STA 15+84.57 TO 18+52.79	844	0.2	0.2
STA 100+00 TO 103+98.74	311	0.1	0.1
TOTAL	2546	0.6	0.6

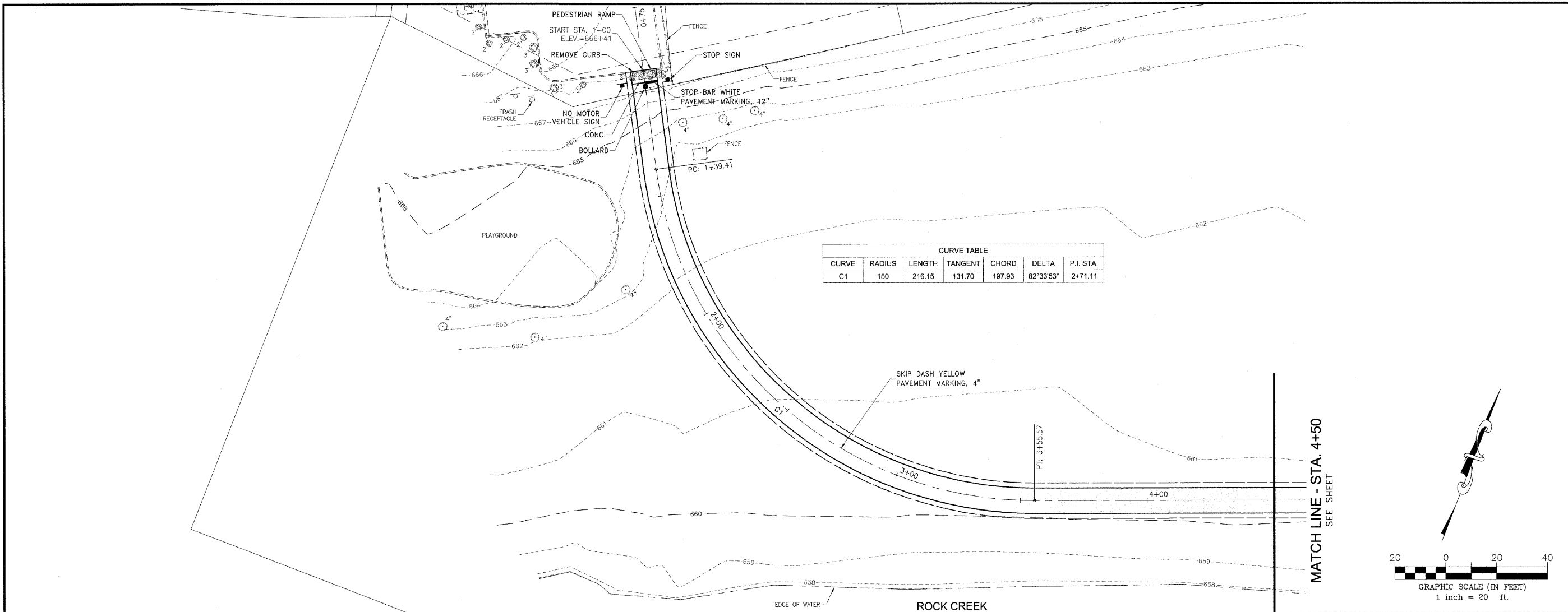
SIGNS SCHEDULE			
LOCATION	SIGN PANEL TYPE 1 (SQ FT)	METAL POST TYPE A (FOOT)	
STA 1+05 - 8 LT	2.25	12	STOP SIGN (R1-1) (18"x18")
STA 1+05 - 8 RT	4	12.5	NO MOTOR VEHICLES (R5-3) (24"x24")
STA 18+47 - 8 LT	4	12.5	NO MOTOR VEHICLES (R5-3) (24"x24")
STA 18+47 - 8 RT	2.25	12	STOP SIGN (R1-1) (18"x18")
STA 100+12 - 8 LT	2.25	12	STOP SIGN (R1-1) (18"x18")
TOTAL	14.75	61	

EARTH EXCAVATION SCHEDULE		
LOCATION	EARTH EXCAVATION (CU YD)	FILL (CU YD)
STA 1+00 TO 15+14.57	448	660
STA 15+74.57 TO 18+52.79	92	860
STA 100+00 TO 103+98.74	89	53
TOTAL	629	1573

RAILING SCHEDULE	
LOCATION	BICYCLE RAILING (FOOT)
STA 14+94 TO 15+04 - RT	10
STA 14+94 TO 15+04 - LT	10
STA 15+85 TO 15+95 - RT	10
STA 15+85 TO 15+95 - LT	10
TOTAL	40

REMOVALS SCHEDULE	
LOCATIONS	COMBINATION CURB & GUTTER REMOVAL (FOOT)
STA 1+00	10
STA 18+53	10
TOTAL	20

SIDEWALK SCHEDULE		
LOCATION	PORTLAND CEMENT CONCRETE SIDEWALK 5" (SQ FT)	DETECTABLE WARNINGS (SQ FT)
STA 1+00 TO 1+05	50	18
STA 18+48 TO 18+52.79	50	18
TOTAL	100	36



FAU. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	**	KANKAKEE	21	6

CONTRACT NO. 87397

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

** 08-00058-00-BT

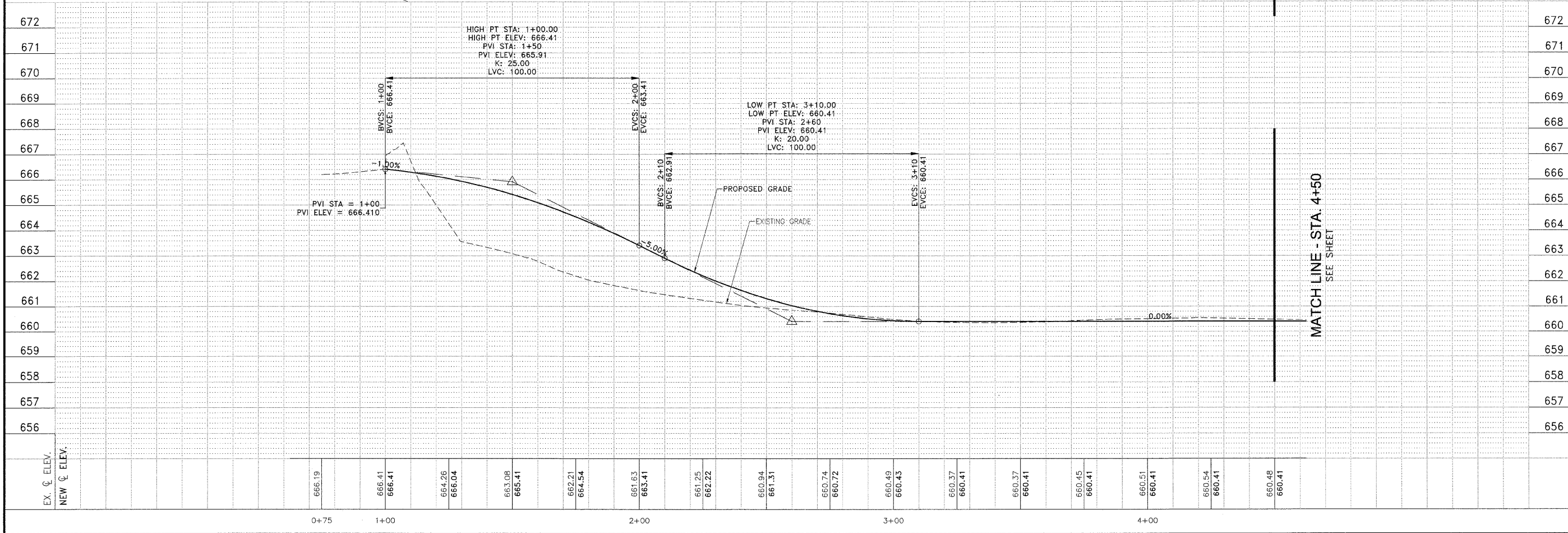
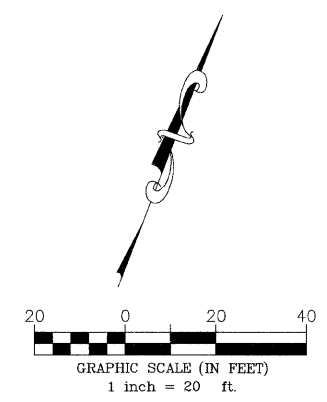
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REVISIONS			
NO.	DATE	BY	DESCRIPTION



PLAN & PROFILE
GREENWAYS TRAIL

GREENWAYS TRAIL
MANTENO, ILLINOIS

PROJECT: SECTION 08-00058-00-BT

DATE: 7/15/11	JOB NO. E08110
SCALE: HORZ.: 1"=20'	FILE NO.
VERT.: 1"=2'	SHEET 6
DRAWN BY: MRG	CHECKED BY: SRM

I:\Projects\08-00058-00-BT\08-00058-00-BT.dwg, 08/15/11, 10:00 AM, 7/15/2011 10:00 AM

FAU. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	**	KANKAKEE	21	7

CONTRACT NO. 87387

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

** 08-00058-00-BT

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 CONSULTING CIVIL ENGINEERS
 LAND SURVEYORS
 DESIGN FIRM LICENSE #184-001136

367 SOUTH SCHUYLER AVENUE
 KANKAKEE, ILLINOIS 60901
 PHONE (815) 932-7406

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NO. REVISIONS			
NO.	DATE	BY	DESCRIPTION

PLAN & PROFILE
 GREENWAYS TRAIL

GREENWAYS TRAIL
 MANTENO, ILLINOIS

PROJECT:

SECTION
 08-00058-00-BT

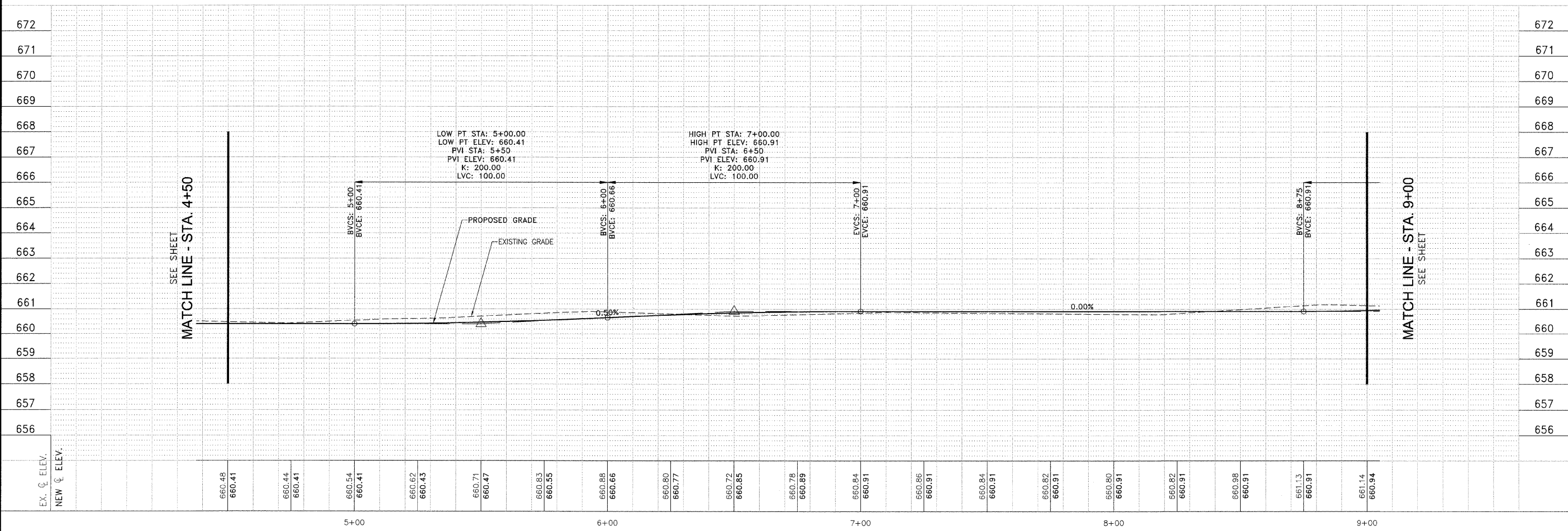
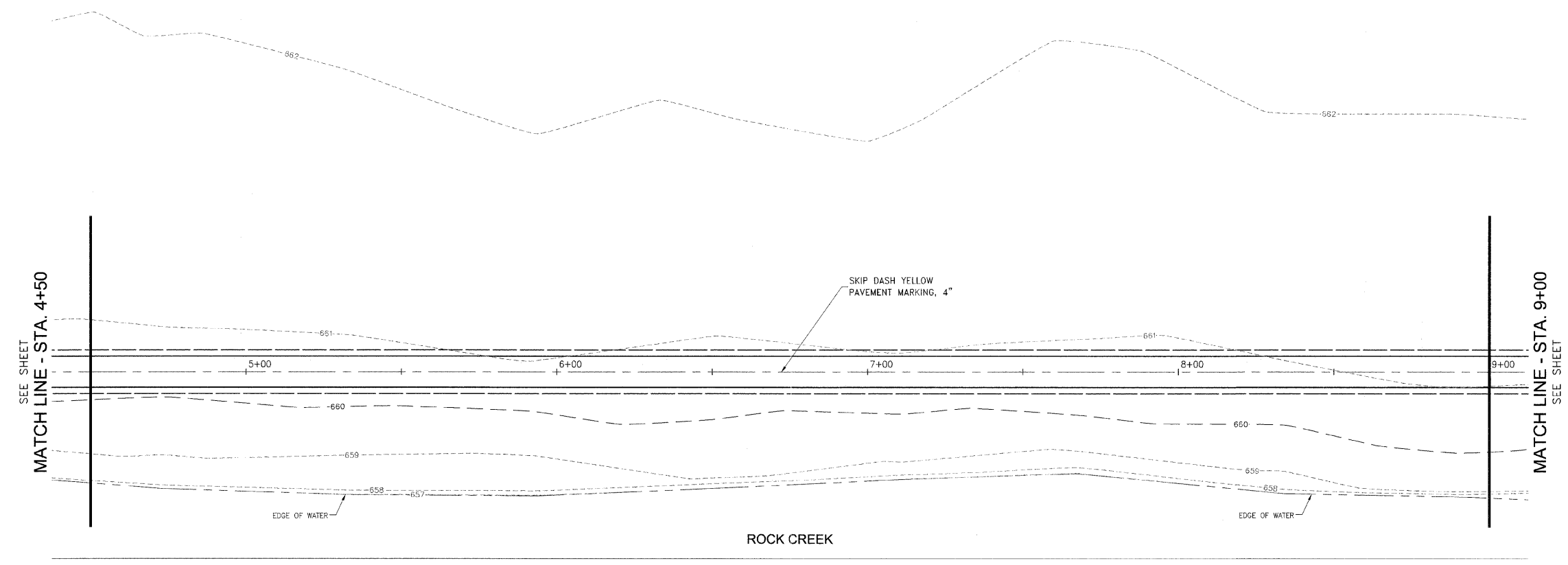
DATE: 7/15/11 JOB NO. E08110

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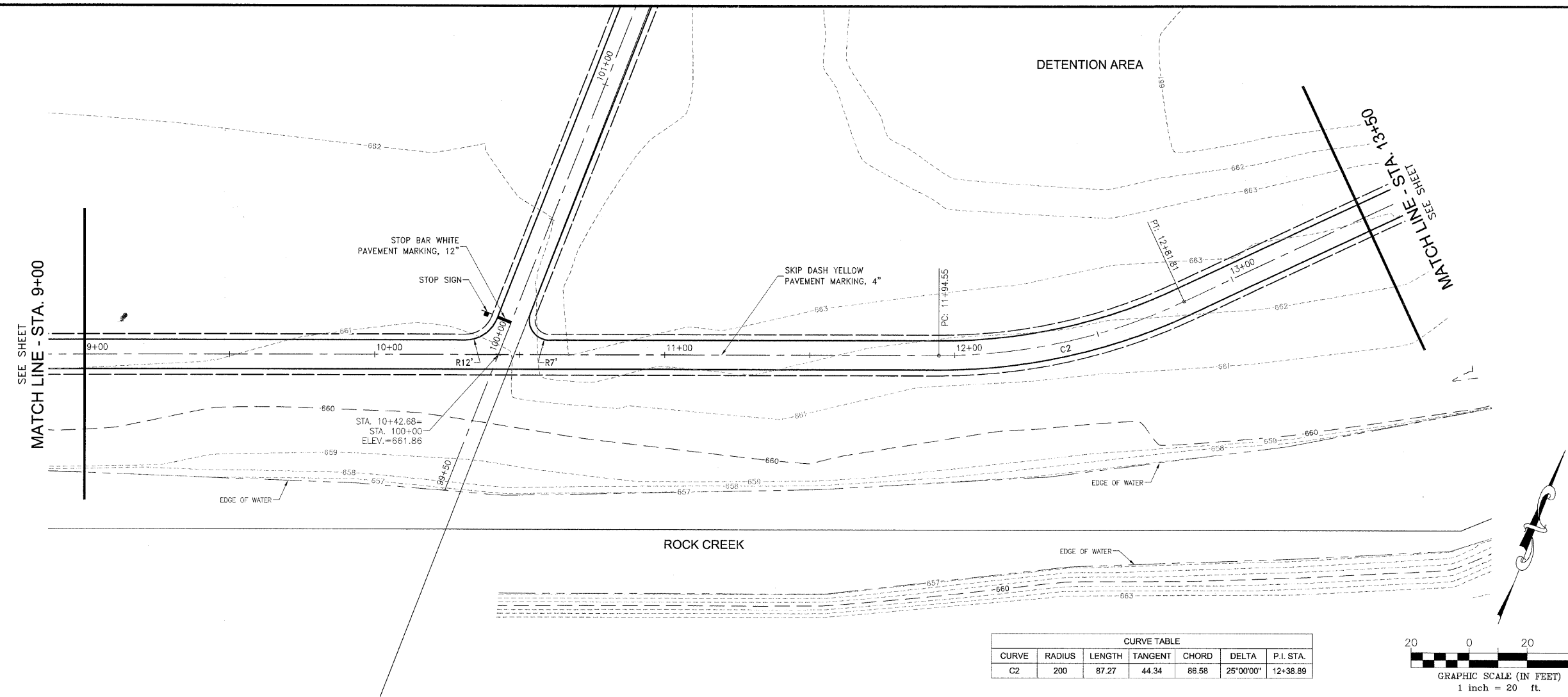
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DRAWN BY: MRG SHEET 7

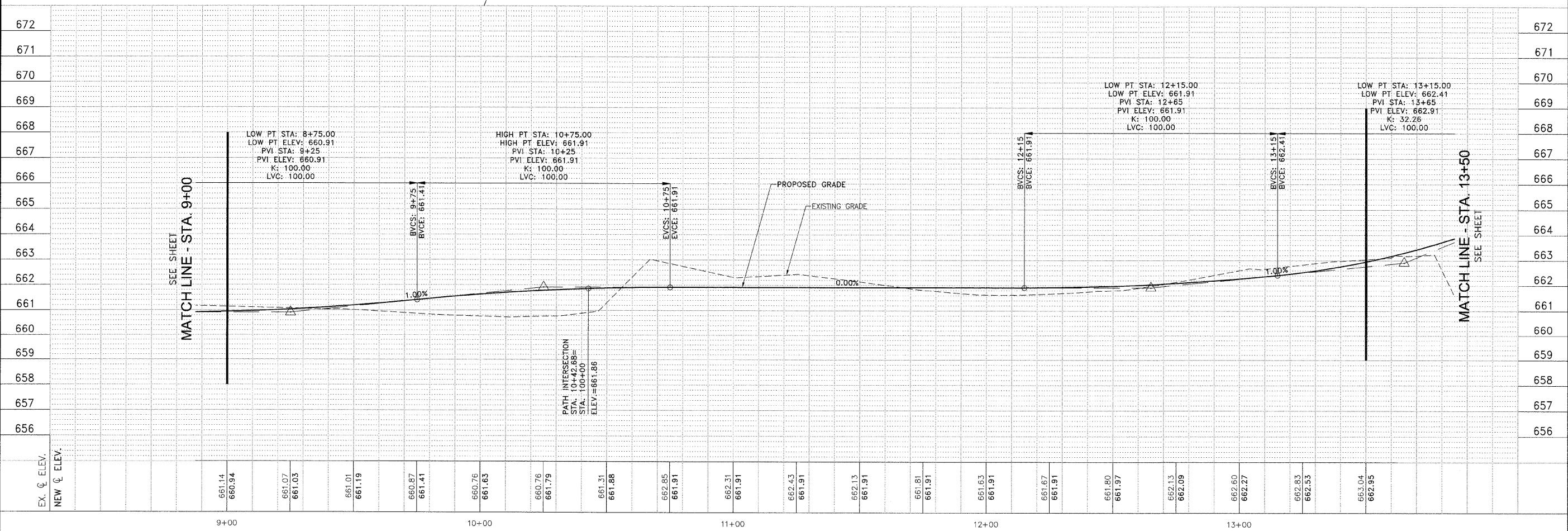
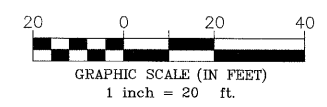
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CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA	P.I. STA.
C2	200	87.27	44.34	86.58	25°00'00"	12+38.89



F.A.U. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	**	KANKAKEE	21	8

CONTRACT NO. 87397

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
** 08-00058-00-BT

TYSON ENGINEERING, INC.
CONSULTING CIVIL ENGINEERS
LAND SURVEYORS
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REVISIONS			
NO.	DATE	BY	DESCRIPTION

PLAN & PROFILE
GREENWAYS TRAIL

GREENWAYS TRAIL
MANTENO, ILLINOIS

SECTION
08-00058-00-BT

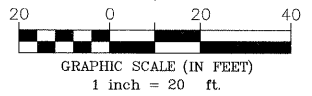
DATE:	7/15/11	JOB NO.:	E08110
SCALE:	HORZ.: 1"=20' VERT.: 1"=2'	FILE NO.:	
DRAWN BY:	MRG	SHEET:	8
CHECKED BY:	SRM		

DETENTION AREA

EXIST. STM INLET
RM=658.21
12" HDPE N
6" PVC SE

STA. 13+85
40 L.F. 24" RCP CULVERT
PLUS 2 END SECTIONS
NW FL = 660.54
SE FL = 659.50

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	DELTA	P.I. STA.
C3	75	117.81	75.00	106.07	90°00'00"	14+71.76
C4	100	78.54	41.42	76.54	45°00'00"	16+15.99
C5	100	69.81	36.40	68.40	40°00'00"	18+09.51



FAU. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	**	KANKAKEE	21	9

CONTRACT NO. 87397

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

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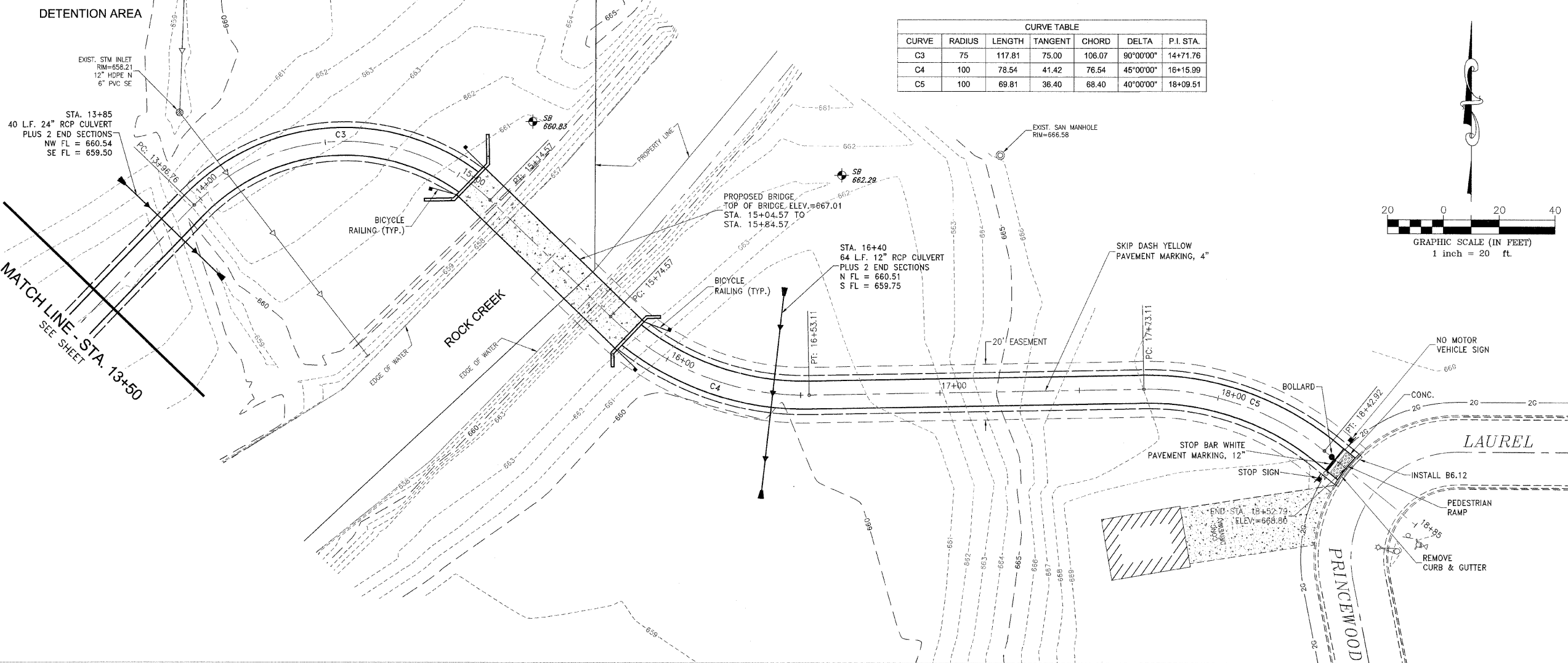
Do not scale drawings. Use dimensions only. Contractor shall be responsible for verifying all dimensions.

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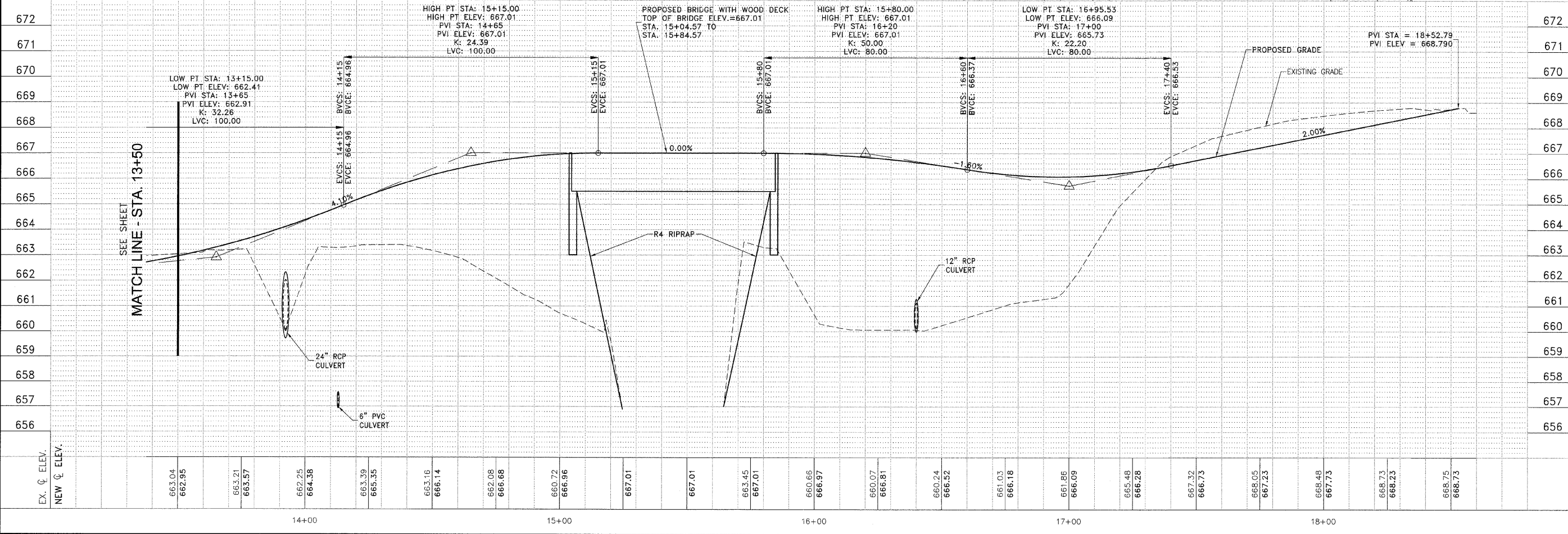
REVISIONS

NO.	DATE	BY	DESCRIPTION
1	7/28/11	NRD	REV. PER IDOT

MATCH LINE - STA. 13+50
SEE SHEET



MATCH LINE - STA. 13+50
SEE SHEET



PLAN & PROFILE
GREENWAYS TRAIL

GREENWAYS TRAIL
MANTENO, ILLINOIS

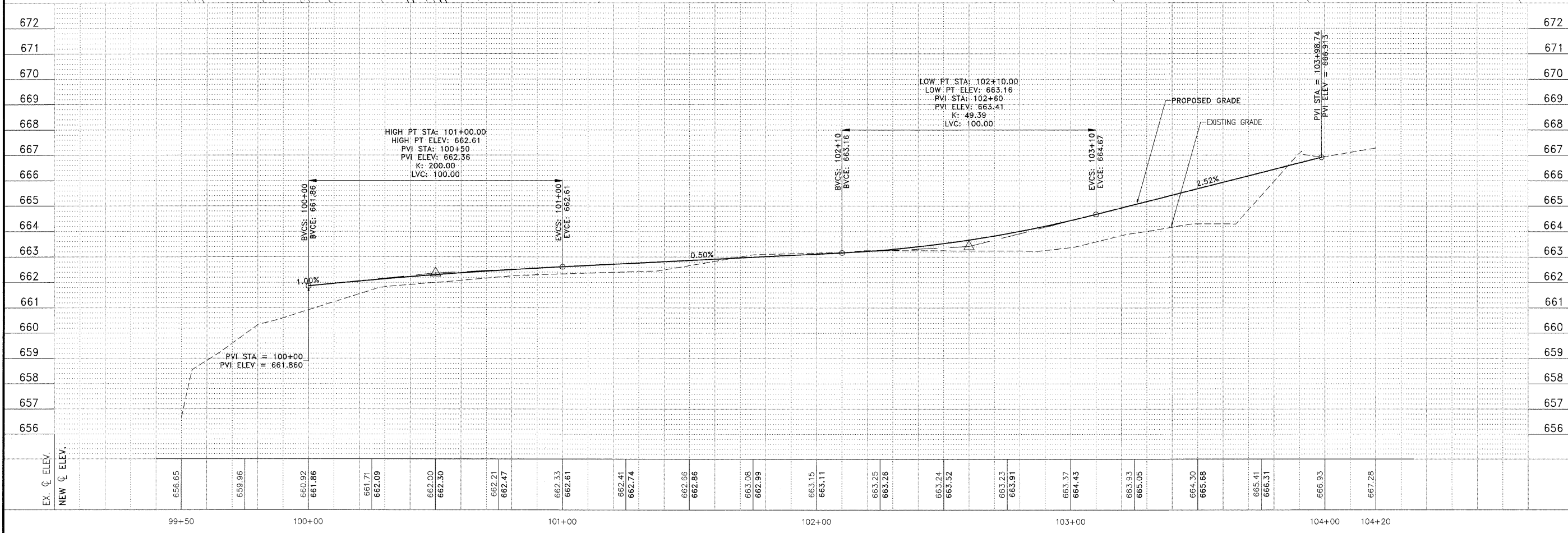
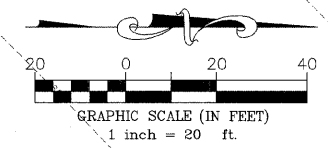
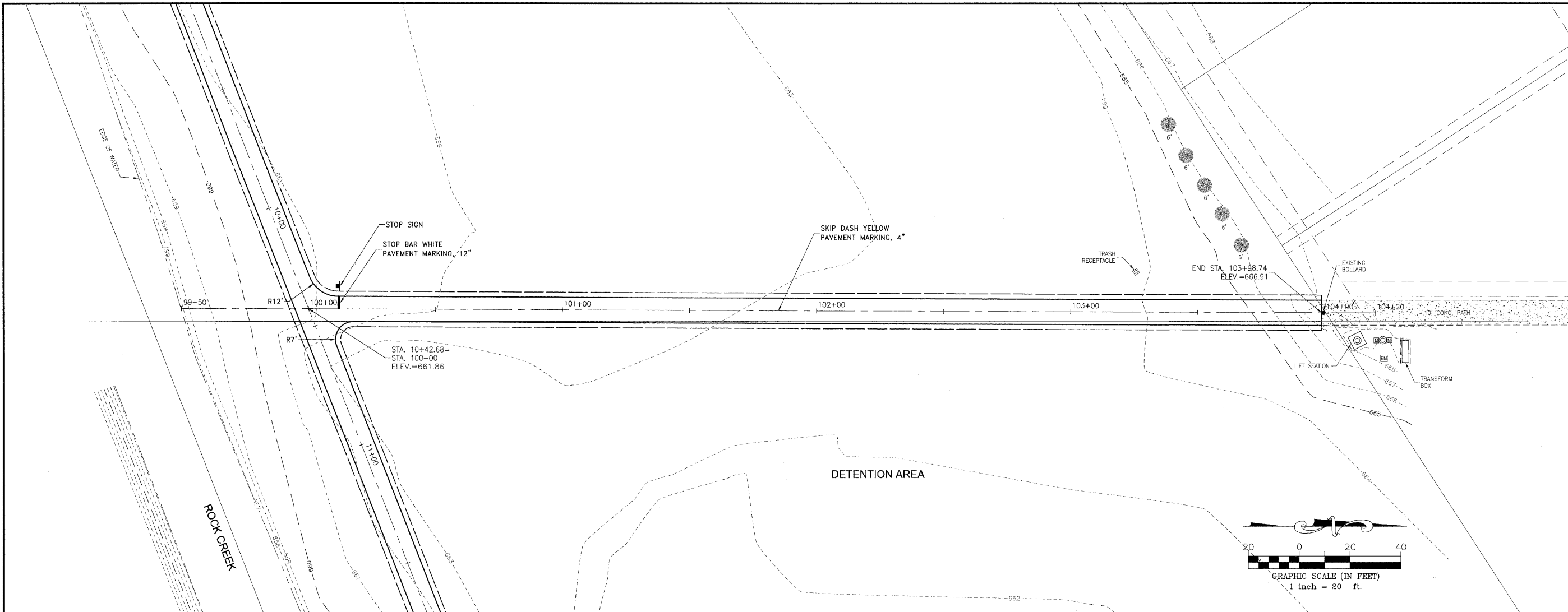
SECTION
08-00058-00-BT

DATE: 7/15/11 JOB NO. E08110

SCALE: HORZ.: 1"=20'
VERT.: 1"=2'

DRAWN BY: MRG SHEET

CHECKED BY: SRM **9**



FAU. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	**	KANKAKEE	21	10

CONTRACT NO. 87397

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

** 08-00058-00-BT

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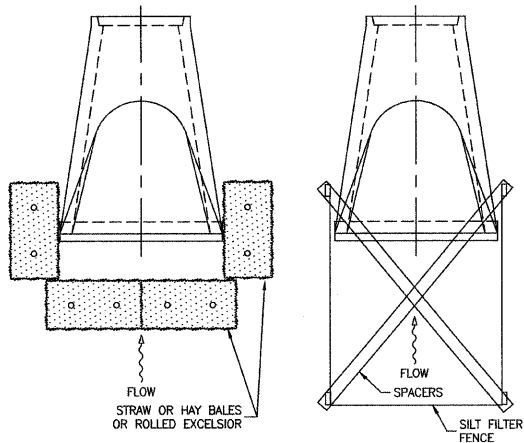
NO. REVISIONS			
NO.	DATE	BY	DESCRIPTION

PLAN & PROFILE
 GREENWAYS TRAIL

PROJECT:
GREENWAYS TRAIL
 MANTENO, ILLINOIS

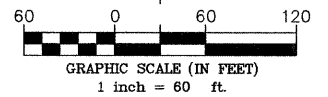
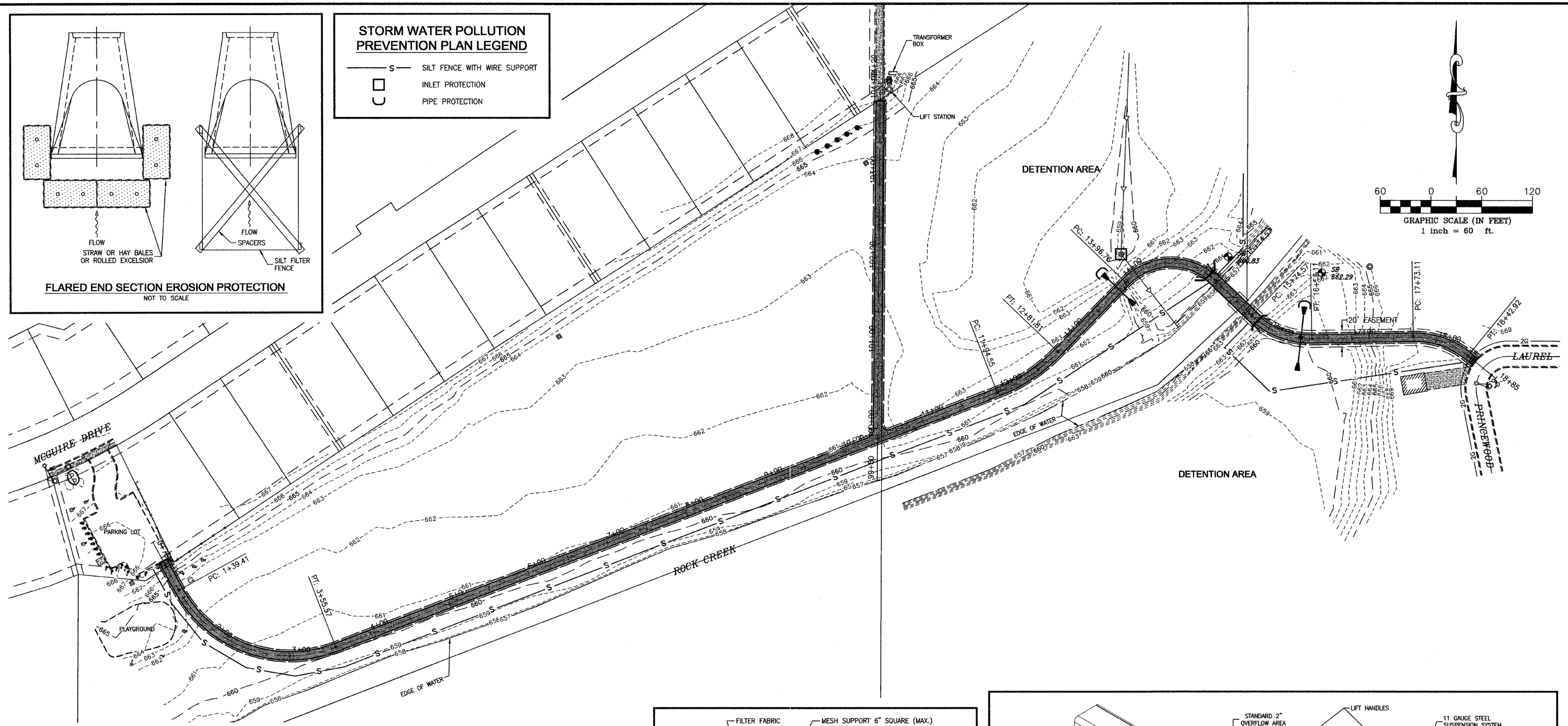
SECTION 08-00058-00-BT	
DATE: 7/15/11	JOB NO. E08110
SCALE: HORZ.: 1"=20' VERT.: 1"=2'	FILE NO.
DRAWN BY: MRG	SHEET
CHECKED BY: SRM	10

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STORM WATER POLLUTION PREVENTION PLAN LEGEND

- S — SILT FENCE WITH WIRE SUPPORT
- — INLET PROTECTION
- C — PIPE PROTECTION



TYSON ENGINEERING, INC.
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CONTRACT NO. 87397
FED. ROAD DIST. NO. ILLINOIS
FED. AID PROJECT
08-00058-00-BT

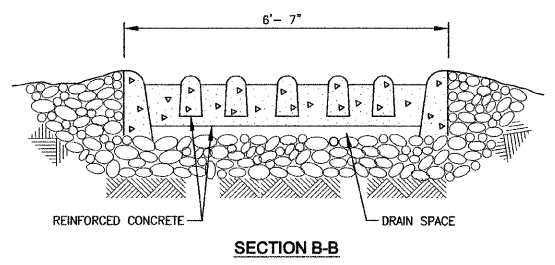
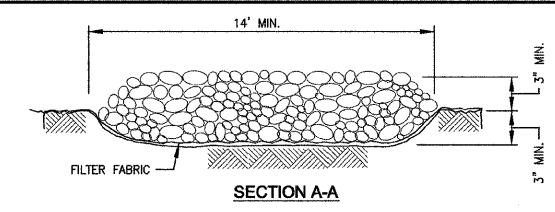
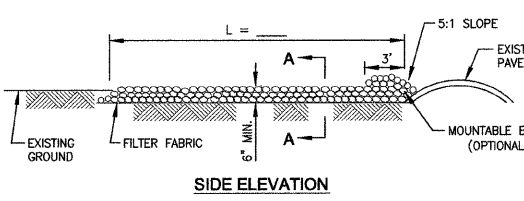
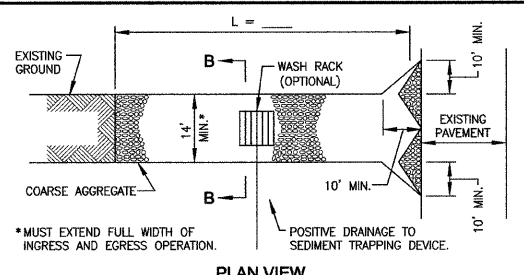
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REVISIONS

NO.	DATE	BY	DESCRIPTION
1	7/28/11	NRD	REV. PER IDOT

STORM WATER POLLUTION PREVENTION PLAN

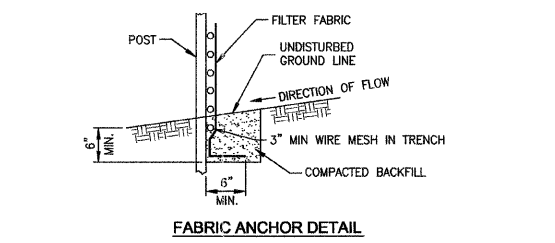
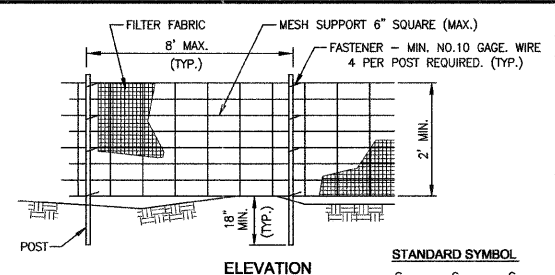
GREENWAYS TRAIL
MANTENO, ILLINOIS



- NOTES:
1. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE, TABLE 1 OR 2, CLASS I, II OR IV AND SHALL BE PLACED OVER THE CLEARED AREA PRIOR TO THE PLACING OF ROCK.
 2. ROCK OR RECLAIMED CONCRETE SHALL MEET ONE OF THE FOLLOWING IDOT COARSE AGGREGATE GRADATION, CA-1, CA-2, CA-3 OR CA-4 AND BE PLACED ACCORDING TO CONSTRUCTION SPECIFICATION 25 ROCKFILL USING PLACEMENT METHOD 1 AND CLASS III COMPACTION.
 3. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHALL BE CONSTRUCTED ACCORDING TO MANUFACTURERS SPECIFICATIONS.
 4. IF WASH RACKS ARE USED THEY SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

STABILIZED CONSTRUCTION ENTRANCE PLAN
NOT TO SCALE

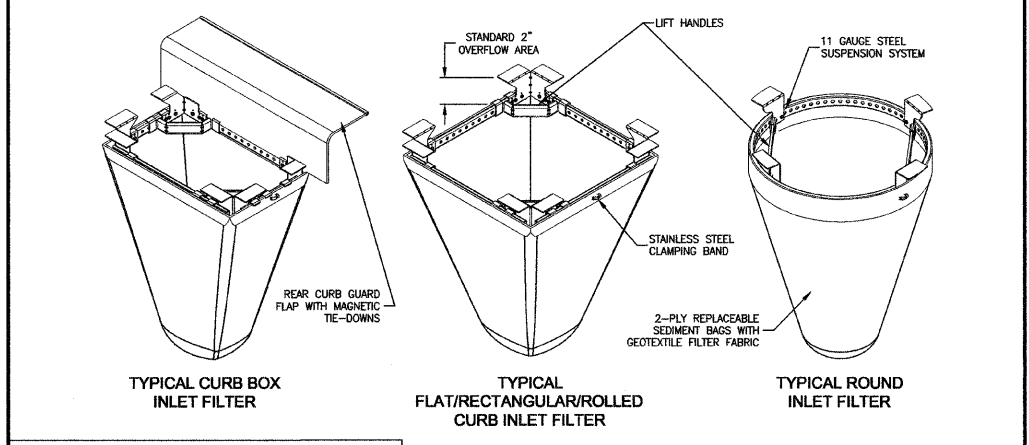
NRCS STANDARD DWG. NO. IL-630
DATE: 8-18-84



- NOTES:
1. WIRES OF MESH SUPPORT SHALL BE MIN. GAGE NO. 12.
 2. TEMPORARY SEDIMENT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. THEY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
 3. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS I WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN.
 4. FENCE POSTS SHALL BE EITHER WOOD POST WITH A MINIMUM CROSS-SECTIONAL AREA OF 3.0 SQ. IN. OR A STANDARD STEEL POST.

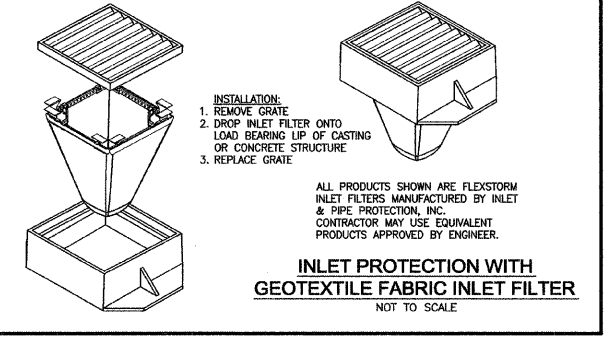
SILT FENCE WITH WIRE SUPPORT
NOT TO SCALE

NRCS STANDARD DWG. NO. IL-ENG-50
DATE: 7/05



Inlet Filter Specifications

Material Property	Test Method	Value (min ave)
> Inner Filter Bag Specs (2 ft ³ min vol)		
Grab Tensile	ASTM D 4632	100 lbs Non-Woven 200 lbs Woven Mono
Puncture Strength	ASTM D 4633	65 lbs Non-Woven 90 lbs Woven Mono
Trapezoidal Tear	ASTM D 4633	45 lbs Non-Woven 75 lbs Woven Mono
UV Resistance	ASTM D 4355	70% at 500 hrs 90%
App Open Size (AOS)	ASTM D 4751	70 sieve (0.212 mm) 40 sieve (0.425 mm)
Permittivity	ASTM D 4491	2.0 / sec 2.1 / sec
Water Flow Rate	ASTM D 4491	145 gpm / sqft 145 gpm / sqft
> Polyester Outer Reinforcement Bag Specifications		
Weight	ASTM D 3776	4.55 oz / sqyd +/- 15%
Thickness	ASTM D 1777	0.040 +/- 0.005
> Frame Construction		
A36 Structural Steel, 11 Gauge, Zinc Plated	ASTM A 576	Tensile Strength > 58,000 psi Yield Strength > 36,000 psi

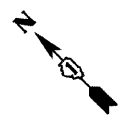


SECTION 08-00058-00-BT

DATE: 7/15/11
SCALE: HORIZ.: 1"=60'
VERT.: N/A

DRAWN BY: MRG
CHECKED BY: SRM

JOB NO. E08110
FILE NO.
SHEET 11



REFERENCE STANDARDS

Illinois Department of Transportation (IDOT)
 A) Standard Specifications for Road and Bridge Construction
 (Adopted January 1, 2007)
 B) Supplemental Specifications and Recurring Special Provisions
 (Adopted January 1, 2011)

LOADS USED FOR ABUTMENT DESIGN

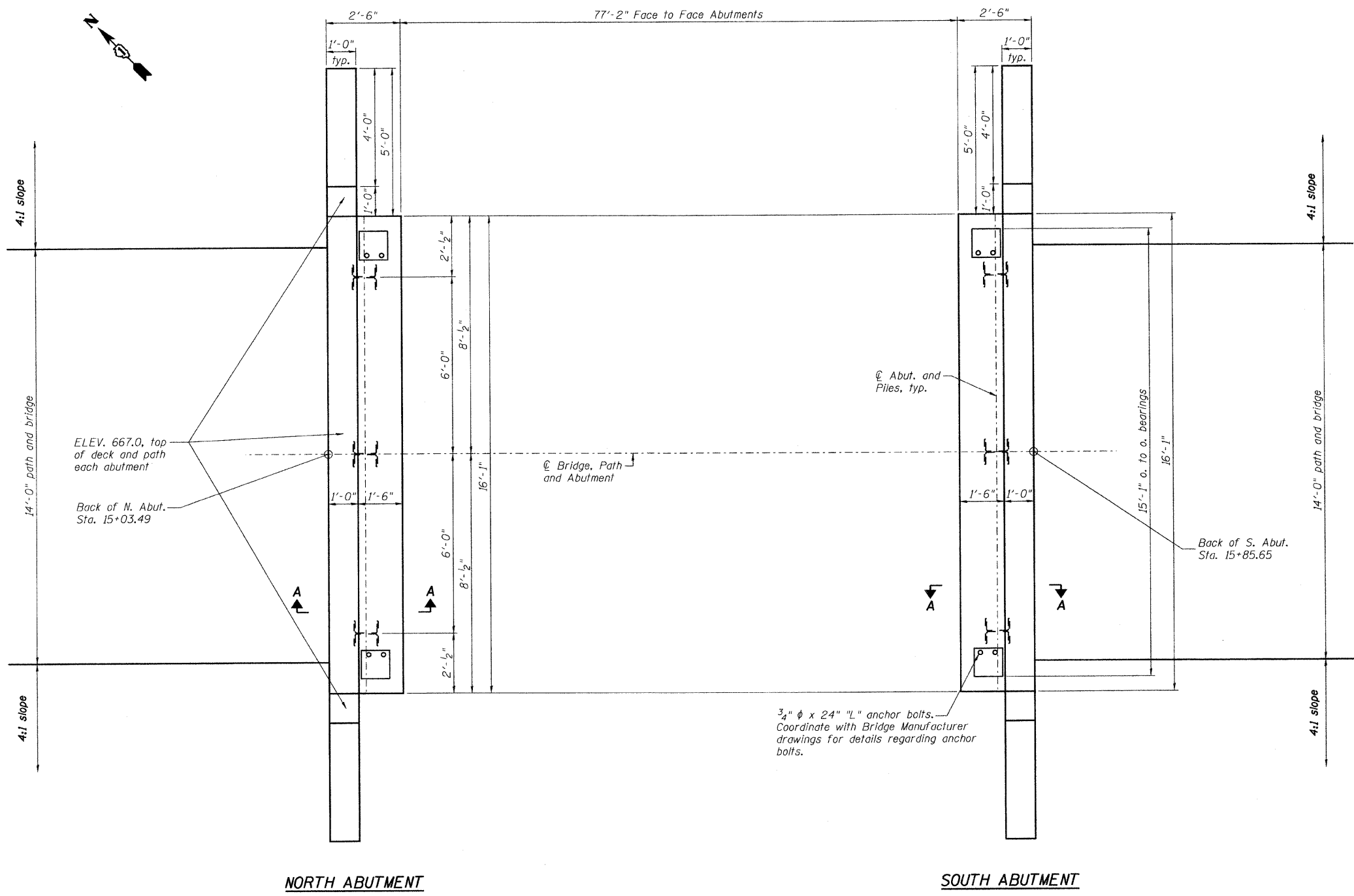
COMBINE REACTIONS AS PER LOCAL OR GOVERNING BUILDING CODES AS REQUIRED

BRIDGE REACTIONS	+ DOWNWARD LOAD		
	P (LBS)	H (LBS)	L (LBS)
DEAD LOAD	9,875		
UNIFORM LIVE LOAD	23,800		
VEHICLE LOAD	5,000		
WIND UPLIFT 20 PSF	- 9,100		
WIND	+ 1,580	7,460	
THERMAL			3,460

"P" - VERTICAL LOAD EACH BASE PLATE (4 PER BRIDGE)
 "H" - HORIZONTAL LOAD EACH FOOTING (2 PER BRIDGE)
 "L" - LONGITUDINAL LOAD AT FIXED BEARING (2 PER BRIDGE)
 BRIDGE LIFTING WEIGHT: 38,500 LBS

NOTE:

Loads from Bridge Manufacturer are Service loads, and shall be multiplied by appropriate load factors as per design code.



NORTH ABUTMENT

SOUTH ABUTMENT

GENERAL PLAN

GENERAL NOTES

1. It shall be the Contractor's responsibility to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.
2. Any reference to standards in the plans or special provisions shall be interpreted to be the latest standard specifications of the Department listed in the plans with the latest revision numbers.
3. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.
4. Reinforcement bars designated (E) shall be epoxy coated.
5. See sheet S2 of S3 for section thru abutment along with wingwall details.

DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Gr 50 Steel Piles)

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications



WHE
 WILLIAM H. EPP, S.E.
 IL. LIC. NO. 081-005150
 EXP. 11-30-12
 DATE 7-18-11
 Sheets S1 thru S3

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL
50300225	Concrete Structures	Cu. Yd.	13.9
50300280	Concrete Encasement	Cu. Yd.	2.1
50800205	Reinforcement Bars, Epoxy Coated	Pound	2520
51201400	Furnishing Steel Piles HP10x42	Foot	90
51202305	Driving Piles	Foot	90
51203400	Test Pile Steel HP10x42	Each	2
51204650	Pile Shoes	Each	6

* Specialty Items



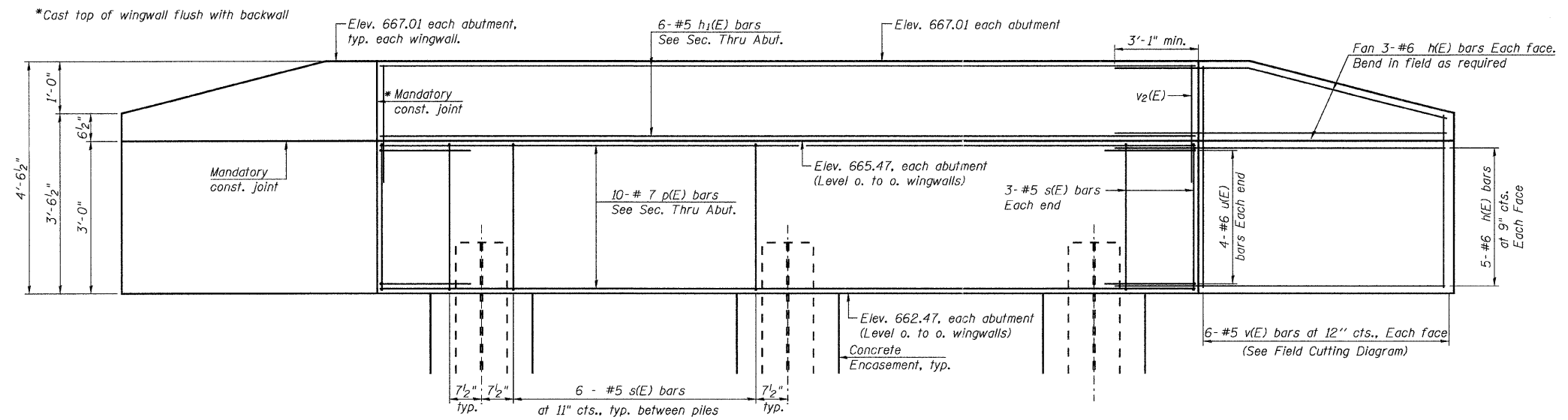
DESIGNED - SLV	REVISIONS -
CHECKED - WHE	REVISIONS -
DRAWN - SLV	REVISIONS -
CHECKED - WHE	REVISIONS -

GREENWAYS TRAIL PEDESTRIAN BRIDGE

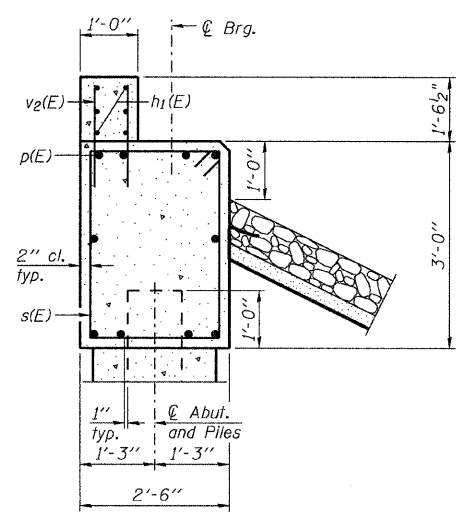
**GENERAL PLAN
 S.N. 046-P002**

SHEET NO. S1 OF S3 SHEETS

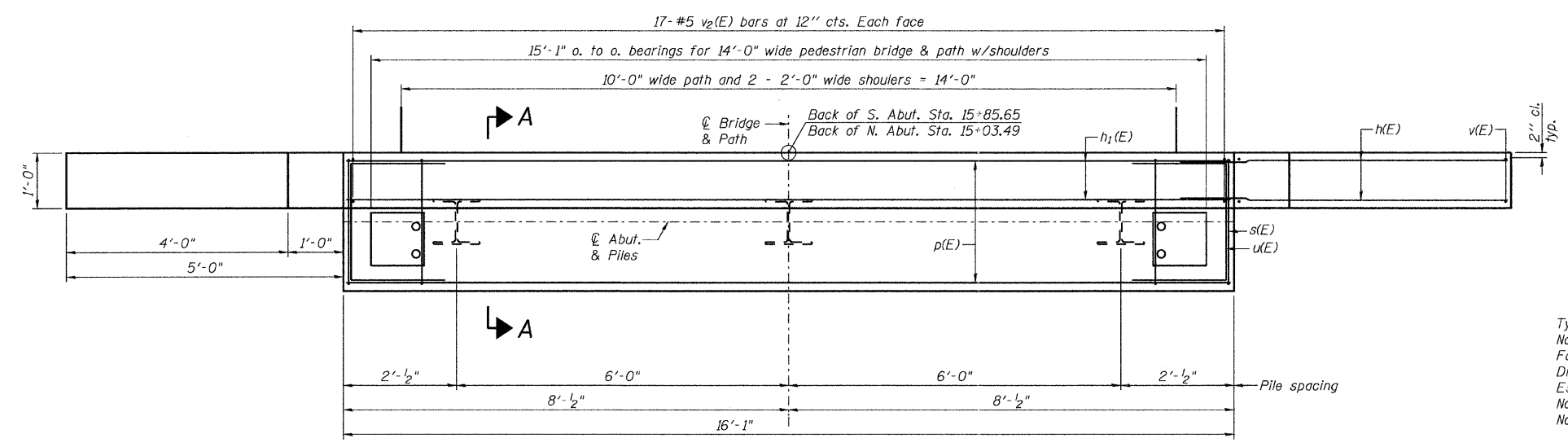
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08-00058-00-BT LBU	MANTENO, IL	15	12
JOB NUMBER - 439449			



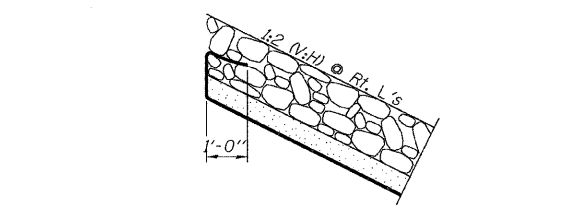
ELEVATION



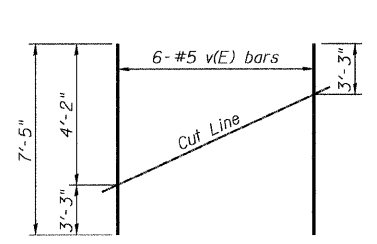
SECTION A-A



PLAN

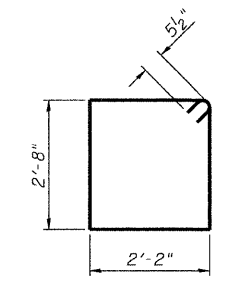


SLOPE PROTECTION DETAIL AT ABUTMENTS

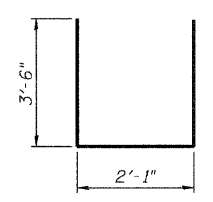


FIELD CUTTING DIAGRAM

Order v(E) bars full length. Cut as shown and use remainder of bars in opposite face.



BAR s(E)



BAR u(E)

NOTES

For details of piles and Concrete Encasement, see sheet S3 of S3. Space reinforcement in cap to miss anchor bolts. All pile activity shall be monitored by an ECS Geotechnical Engineer or representative. See soils report by ECS LLC dated June 16, 2009 for more information regarding pile foundation details.

**PILE DATA
NORTH ABUTMENT**

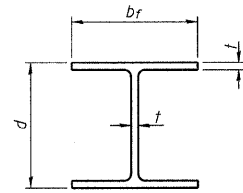
Type: HP 10x42 w/ metal shoes
Nominal Required Bearing: 335 kips
Factored Resistance Available: 184 kips
Driven to Refusal in Bedrock
Est. Length: 24 feet
No. Production Piles: 2
No. Test Piles: 1

SOUTH ABUTMENT

Type: HP 10x42 w/ metal shoes
Nominal Required Bearing: 335 kips
Factored Resistance Available: 184 kips
Driven to Refusal in Bedrock
Est. Length: 21 feet
No. Production Piles: 2
No. Test Piles: 1

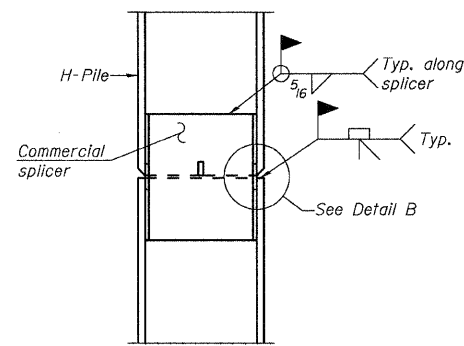
**BILL OF MATERIAL
TWO ABUTMENTS**

Bar	No.	Size	Length	Shape	
h(E)	64	#6	8'-1"	—	
h1(E)	12	#5	15'-8"	—	
p(E)	20	#7	15'-8"	—	
s(E)	36	#5	10'-7"	□	
u(E)	16	#6	9'-1"	U	
v(E)	24	#5	7'-5"	—	
v2(E)	34	#5	2'-10"	—	
Concrete Structures				Cu. Yd.	13.9
Concrete Encasement				Cu. Yd.	2.1
Reinforcement Bars, Epoxy Coated				Pound	2520
Furnishing Steel Piles HP10x42				Foot	90
Driving Piles				Foot	90
Test Pile Steel HP10x42				Each	2
Pile Shoes				Each	6

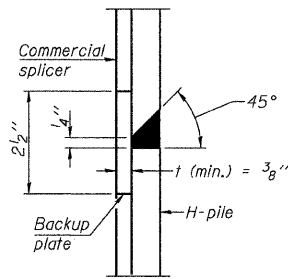


STEEL PILE TABLE

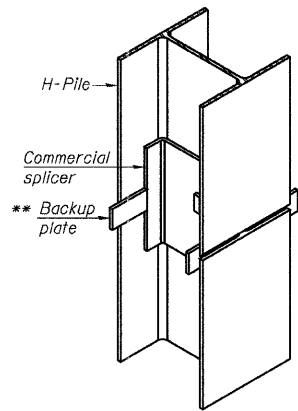
Designation	Depth d	Flange width b _f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/2"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

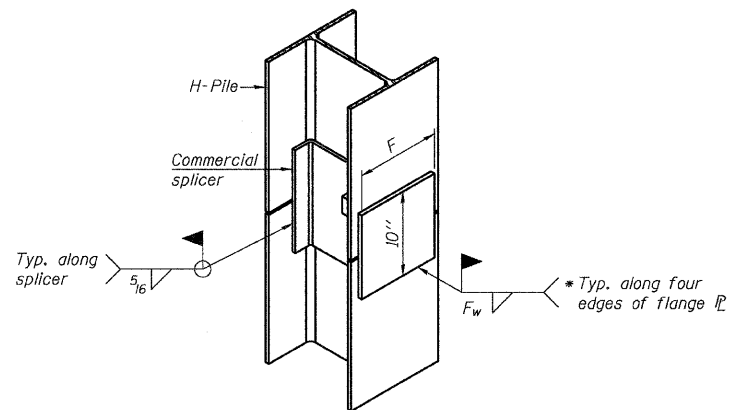


DETAIL "B"



ISOMETRIC VIEW

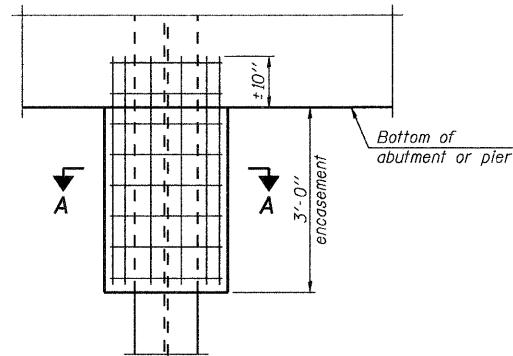
WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW

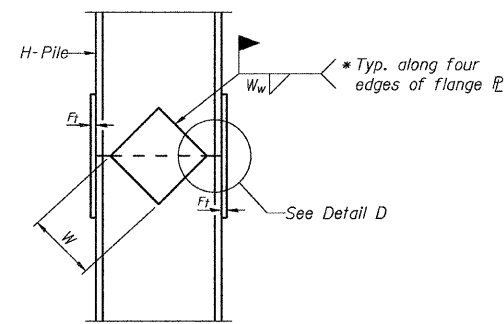
WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

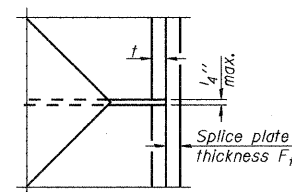


ELEVATION

PILE ENCASEMENT

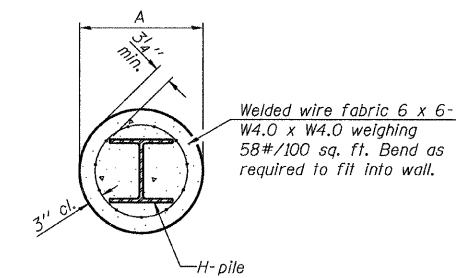


ELEVATION



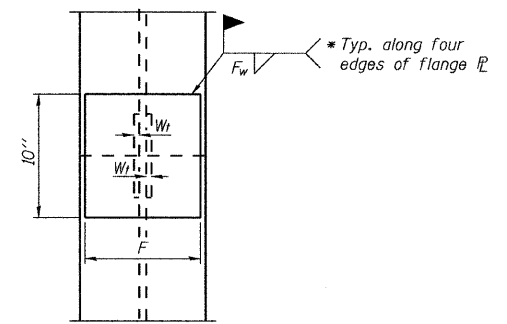
DETAIL D

WELDED PLATE FIELD SPLICE



SECTION A-A

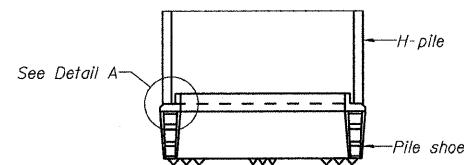
Note:
Forms for encasement may be omitted when soil conditions permit.



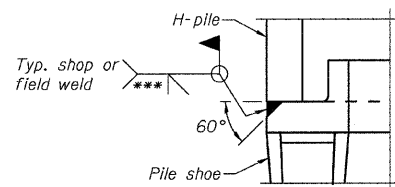
END VIEW

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 1/2"	1 1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 1/2"	1 1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5 1/2"	1 1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 1/2"	1 1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5 1/2"	1 1/2"
x74	10"	7/8"	1/16"	6 1/2"	5 1/2"	1 1/2"
x63	10"	5/8"	1/2"	6 1/2"	1 1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1 1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1 1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1 1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1 1/2"	3/8"

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

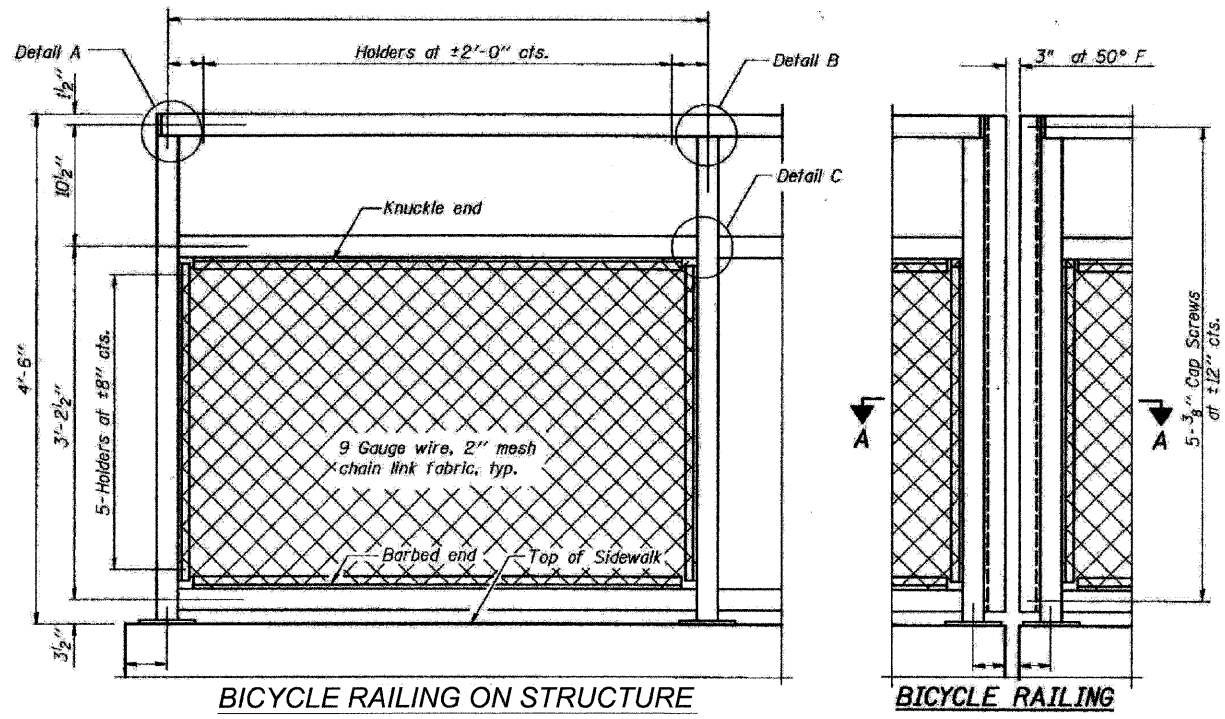


DETAIL A

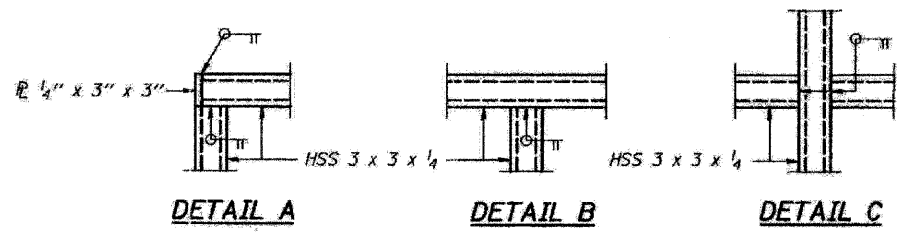
H-PILE SHOE ATTACHMENT

F-HP

7-1-10

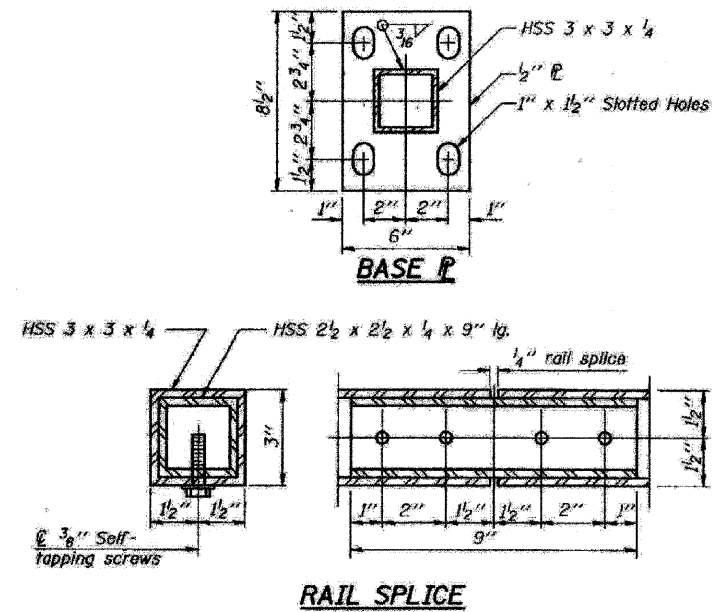
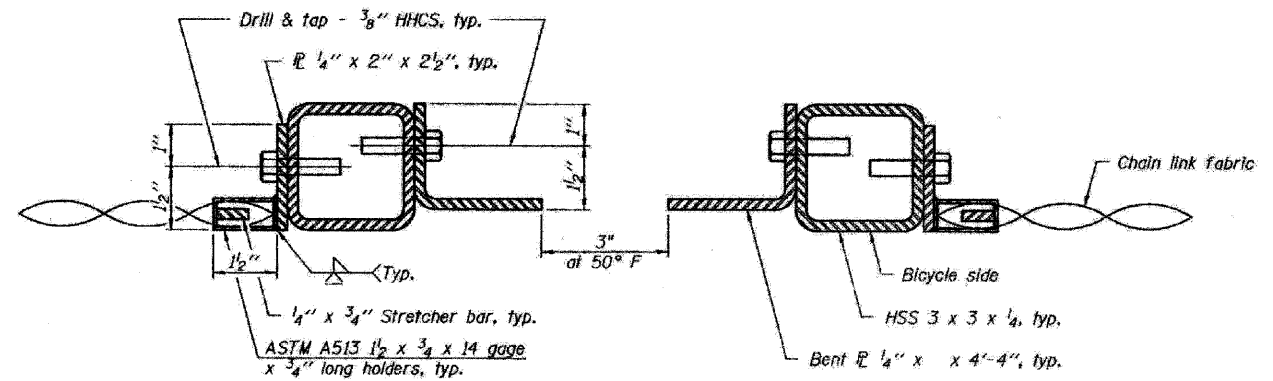


BICYCLE RAILING ON STRUCTURE

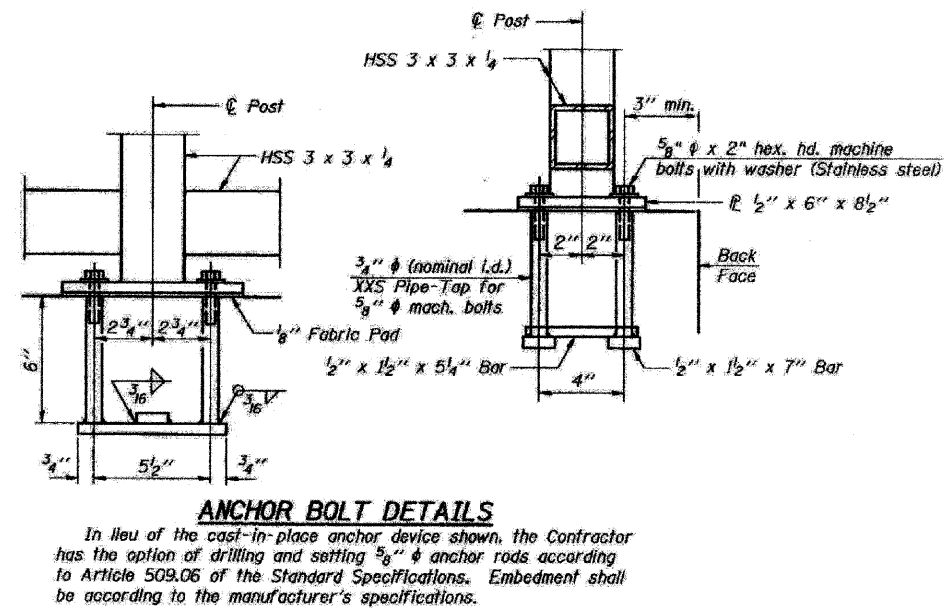


DETAIL A DETAIL B DETAIL C

NOTES:
 1. All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
 2. All steel rail elements shall meet grade requirements according to Article 1006.34 of the Standard Specifications.

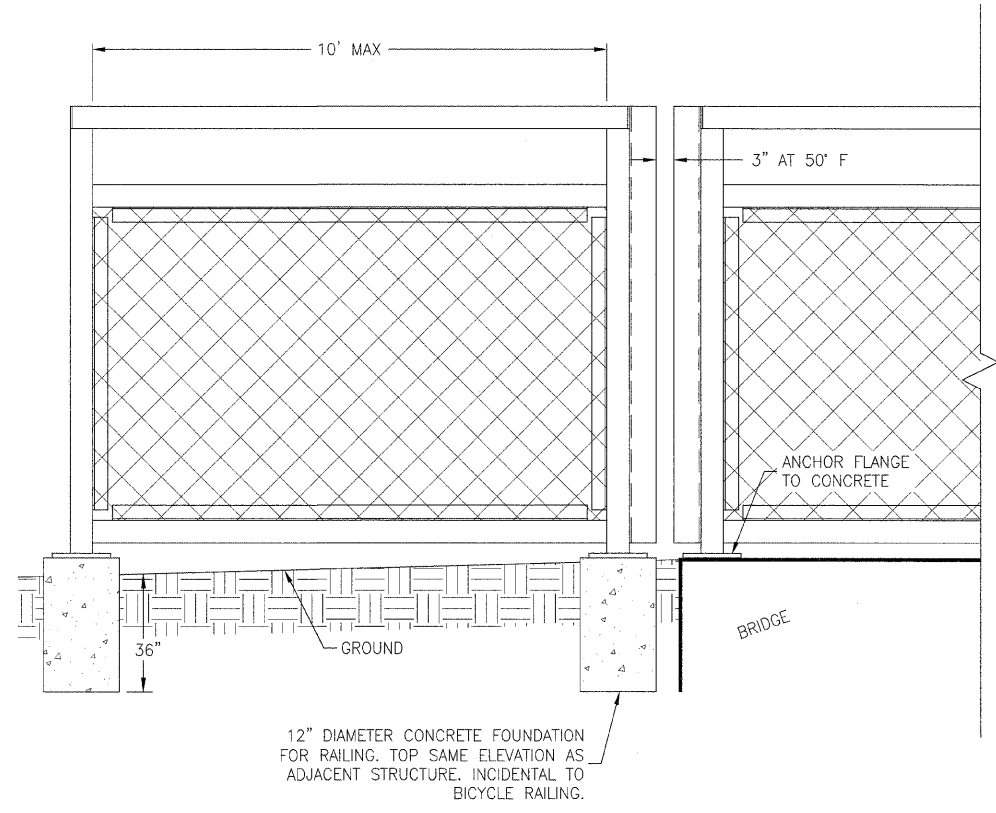


RAIL SPLICE



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



BICYCLE RAILING OFF STRUCTURE

FED. DIST. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	**	KANKAKEE	21	15

CONTRACT NO. 87397
 ILLINOIS
 FED. AID PROJECT

** 08-00058-00-BT

TYSON ENGINEERING, INC.
 CONSULTING CIVIL ENGINEERS
 LAND SURVEYORS
 DESIGN FIRM LICENSE #184-001136
 367 SOUTH SCHUYLER AVENUE
 KANKAKEE, ILLINOIS 60901
 PHONE (815) 932-7406

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NO. REVISIONS			
NO.	DATE	BY	DESCRIPTION

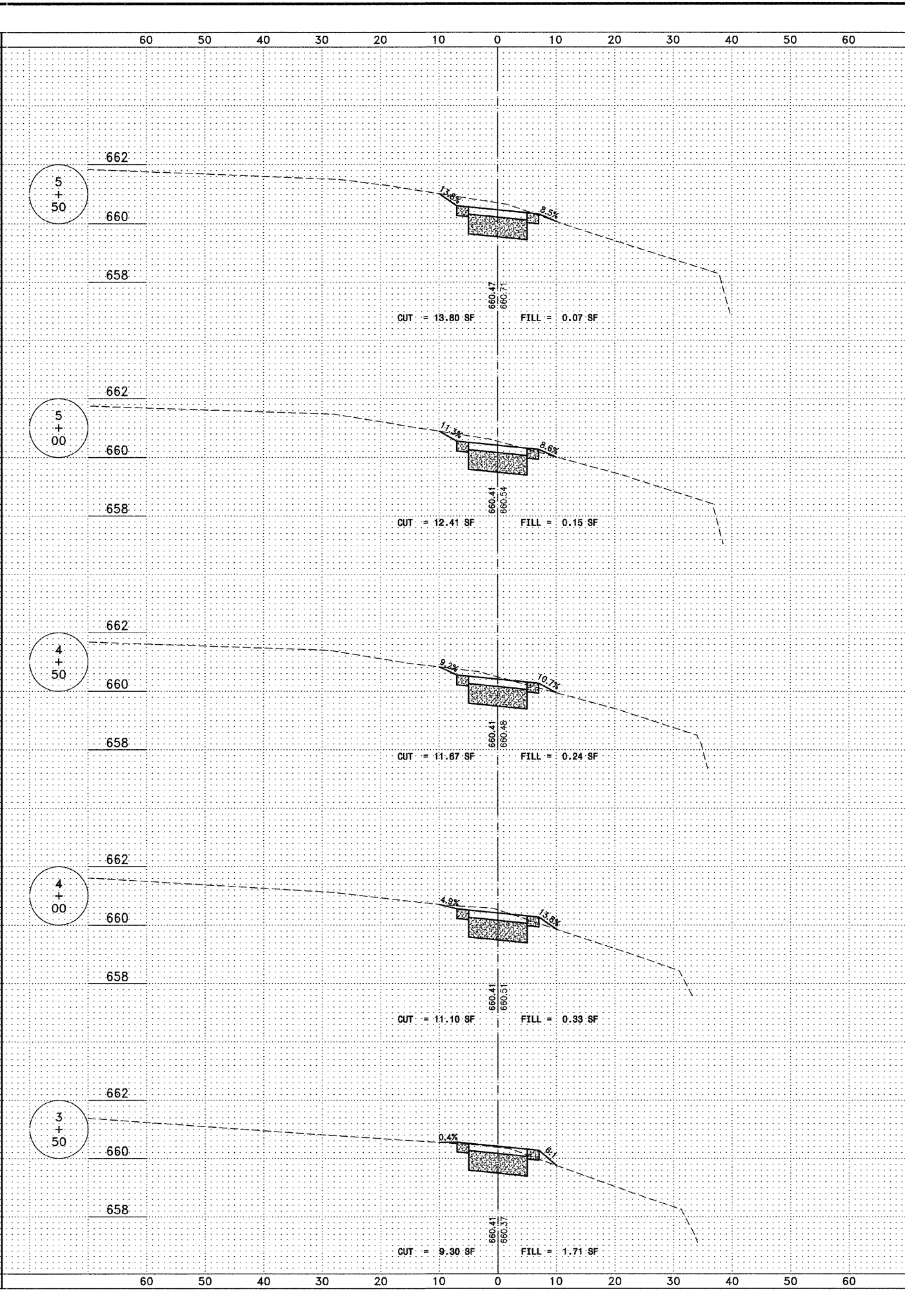
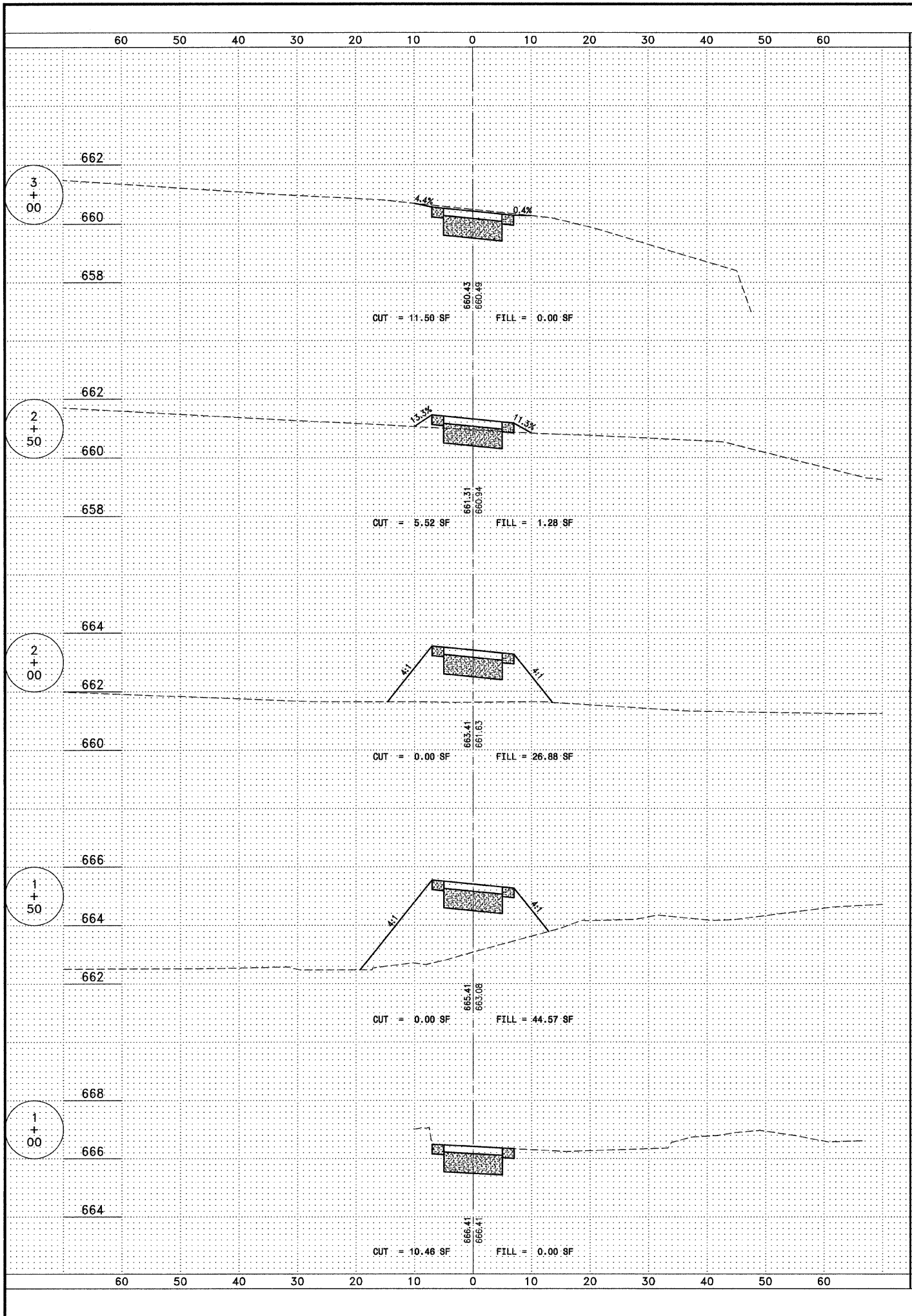
RAILING DETAILS

GREENWAYS TRAIL
 MANTENO, ILLINOIS

SECTION
 08-00058-00-BT

DATE:	7/15/11	JOB NO.	E08110
SCALE:	N/A	FILE NO.	
DRAWN BY:	MRG	SHEET	15
CHECKED BY:	SRM		

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FAU. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	**	KANKAKEE	21	16
CONTRACT NO. 87397				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
** 08-00058-00-BT				
TYSON ENGINEERING, INC. CONSULTING CIVIL ENGINEERS LAND SURVEYORS DESIGN FIRM LICENSE #184-001136 367 SOUTH SCHUYLER AVENUE KANKAKEE, ILLINOIS 60901 PHONE (815) 932-7406				
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NO. REVISIONS				
DATE	BY	DESCRIPTION		
CROSS SECTIONS GREENWAYS TRAIL				
PROJECT: GREENWAYS TRAIL MANTENO, ILLINOIS				
SECTION 08-00058-00-BT				
DATE:	7/15/11	JOB NO.:	E08110	
SCALE:	HORZ.: 1"=10' VERT.: 1"=2'	FILE NO.:		
DRAWN BY:	MRG	SHEET		
CHECKED BY:	SRM	SHEET	16	

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FULL SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	**	KANKAKEE	21	17

CONTRACT NO. 08-0058
 FED. ROAD DIST. NO. ILLINOIS
 FED. AID PROJECT NO. 08-00058-00-BT

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NO. REVISIONS			
NO.	DATE	BY	DESCRIPTION

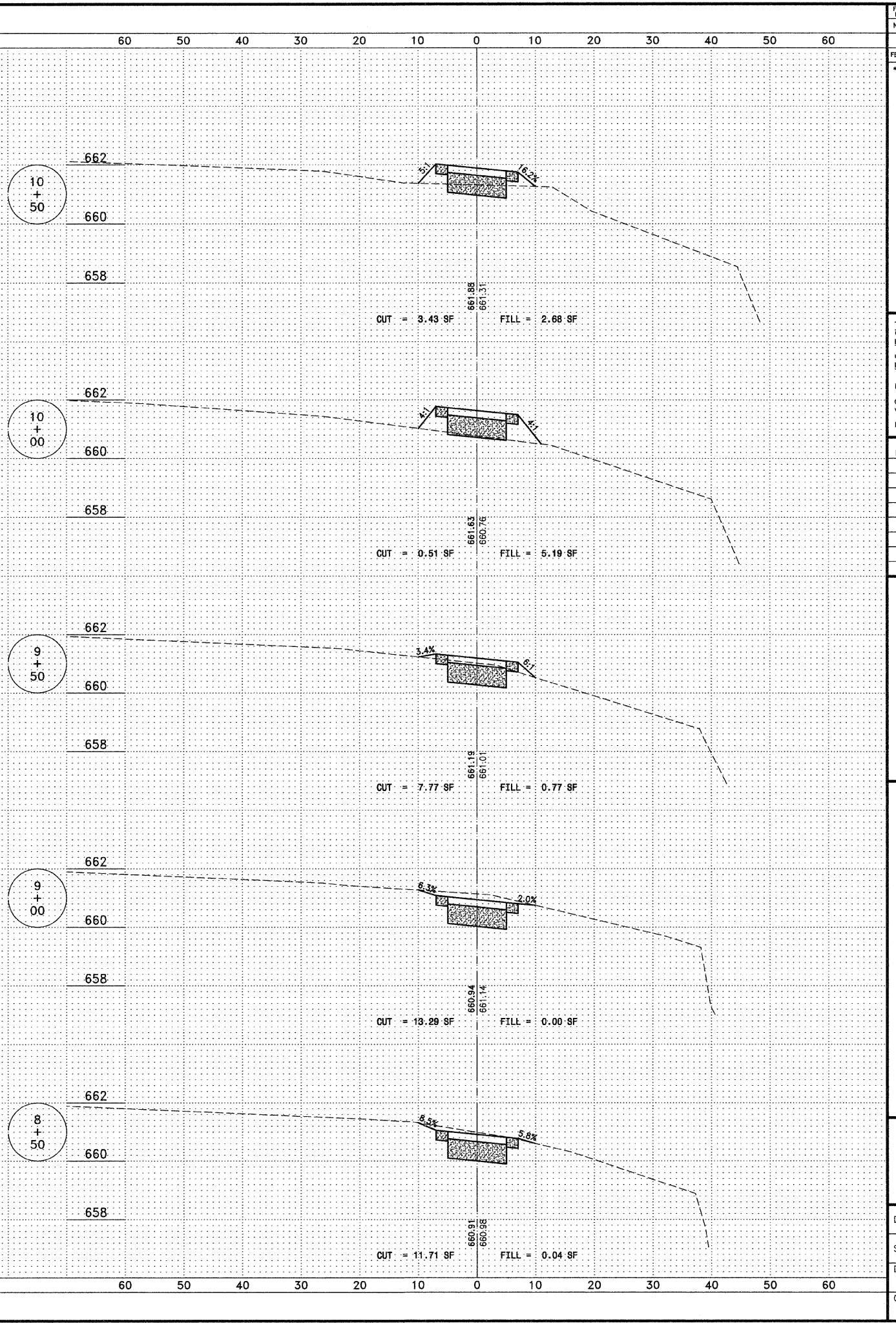
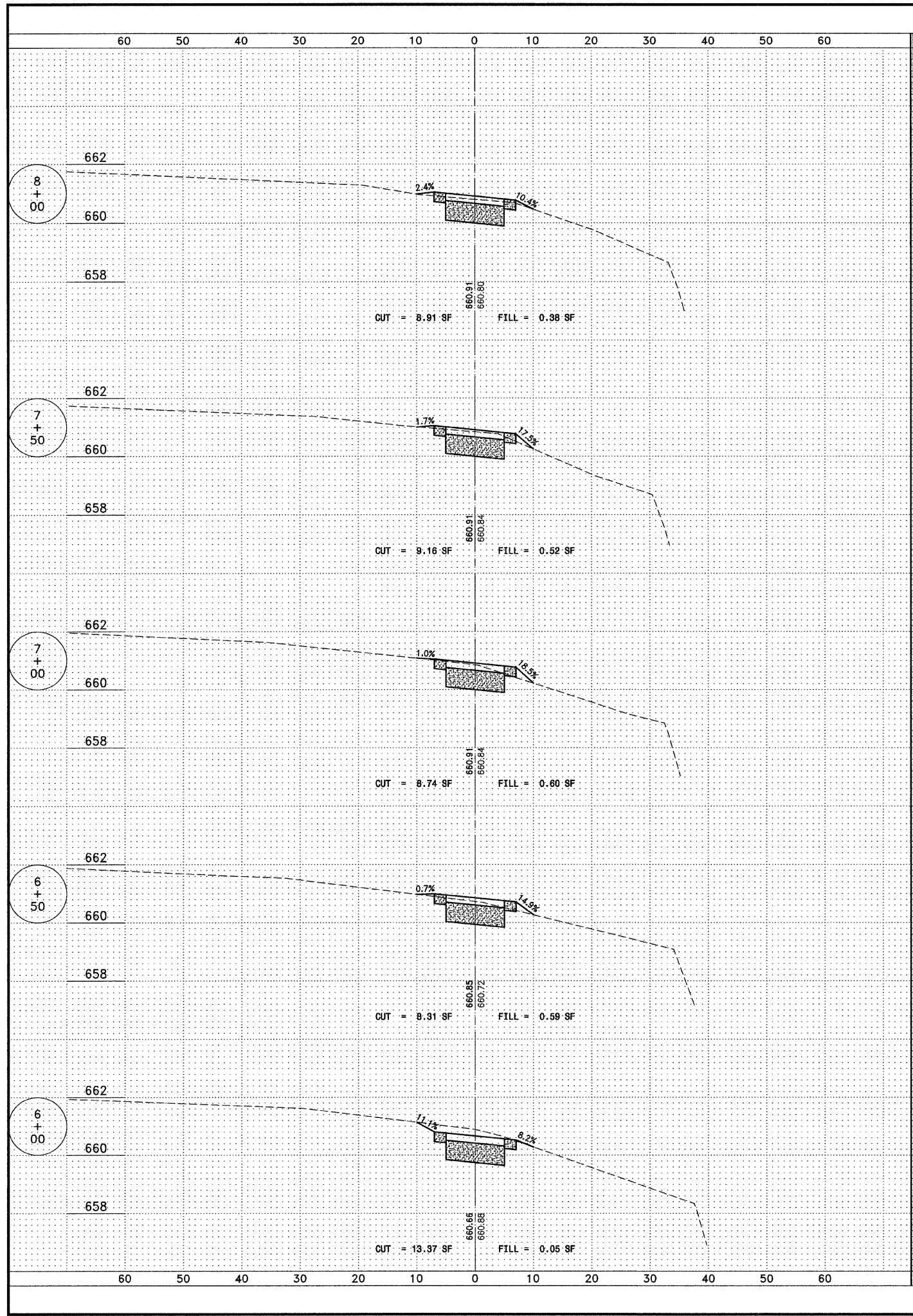
CROSS SECTIONS
 GREENWAYS TRAIL

GREENWAYS TRAIL
 MANTENO, ILLINOIS

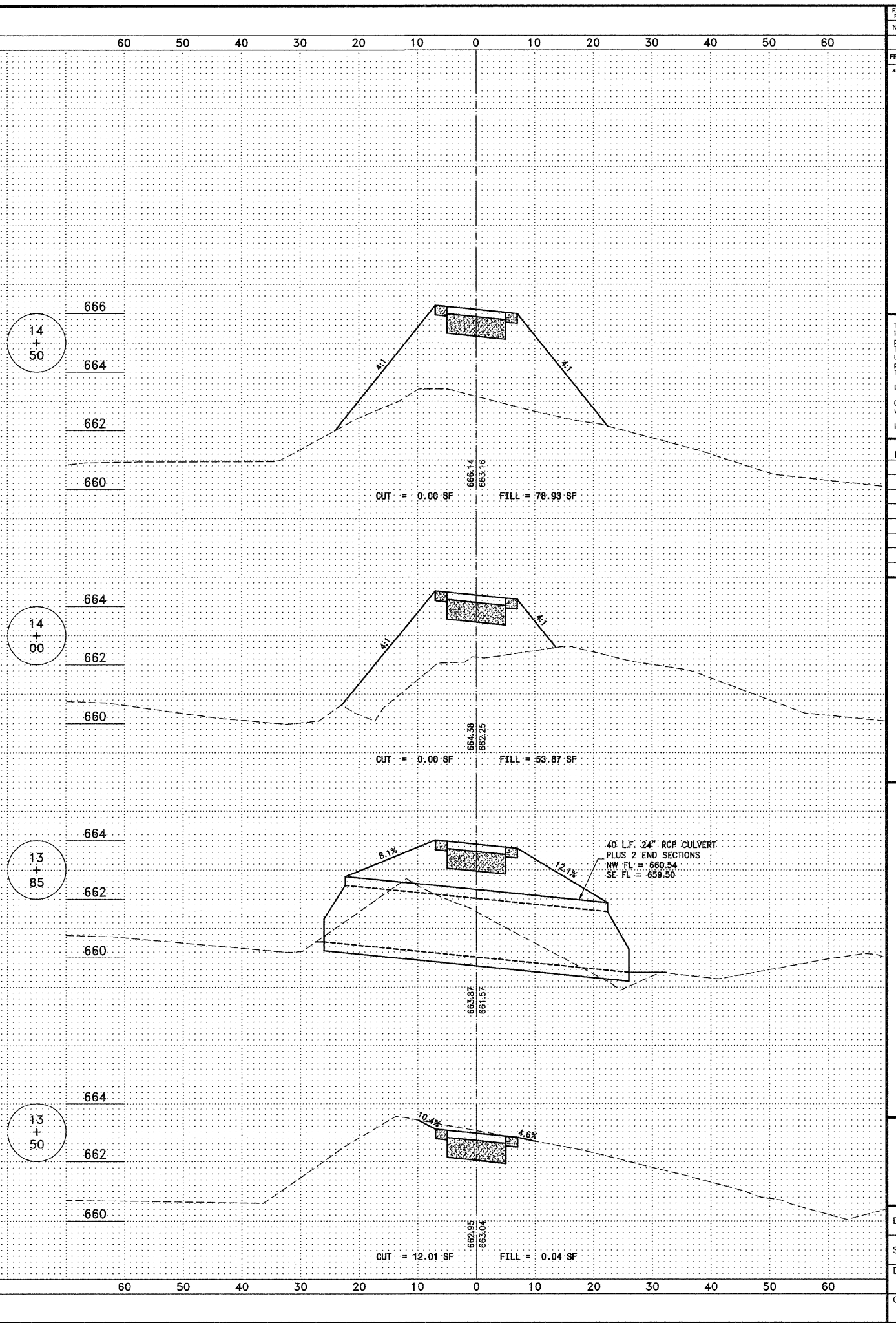
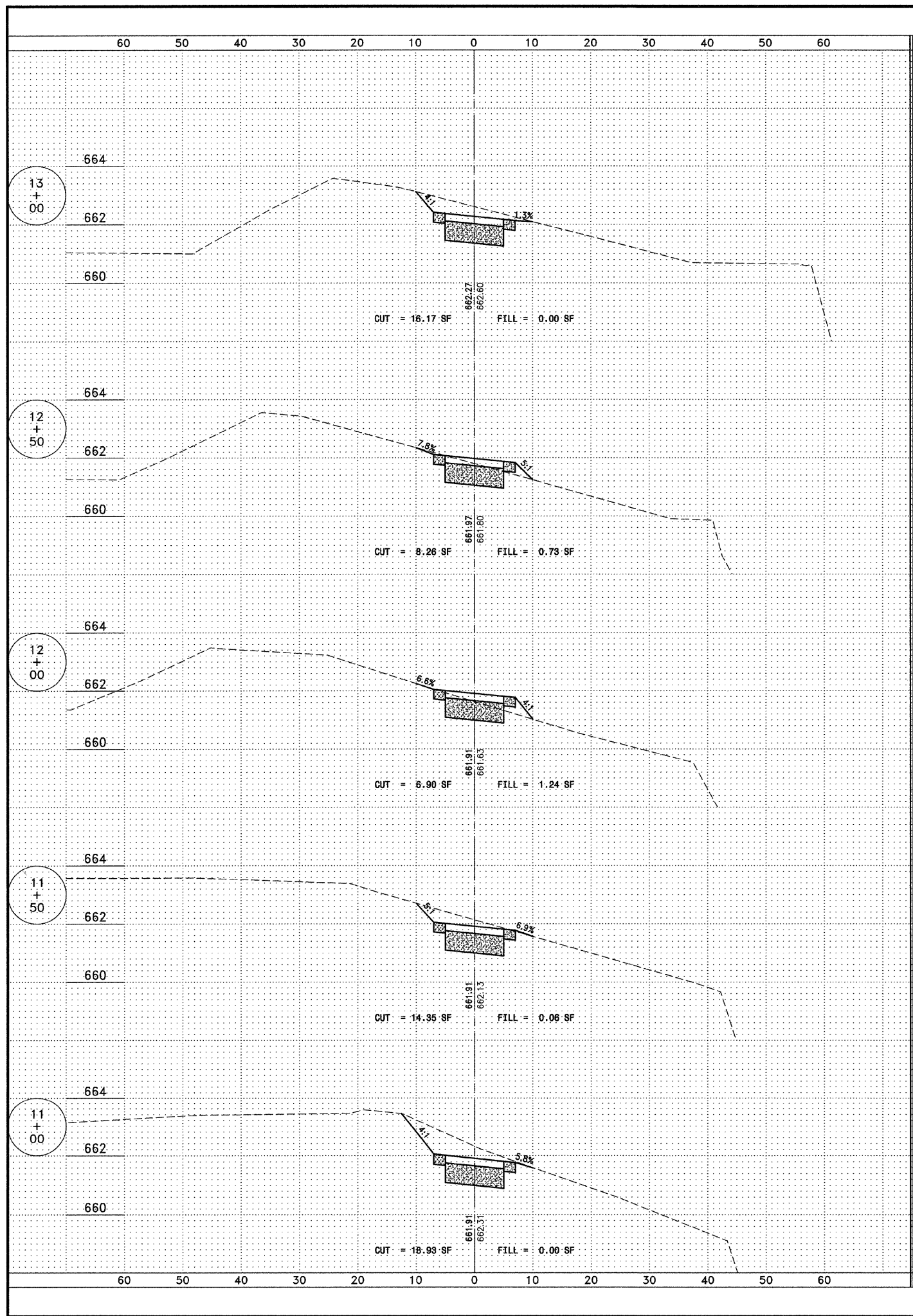
PROJECT:

SECTION
 08-00058-00-BT

DATE: 7/15/11	JOB NO. E08110
SCALE: HORZ.: 1"=10' VERT.: 1"=2'	FILE NO.
DRAWN BY: MRG	SHEET
CHECKED BY: SRM	17



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FALL	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	**	KANKAKEE	21	18
CONTRACT NO. 87397				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
** 08-00058-00-BT				
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NO. REVISIONS				
DATE	BY	DESCRIPTION		
CROSS SECTIONS GREENWAYS TRAIL				
PROJECT: GREENWAYS TRAIL MANTENO, ILLINOIS				
SECTION 08-00058-00-BT				
DATE:	7/15/11	JOB NO.:	E08110	
SCALE:	HORZ.: 1"=10'	FILE NO.:		
	VERT.: 1"=2'			
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FALL RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	**	KANKAKEE	21	19

CONTRACT NO. 87397

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

** 08-00058-00-BT

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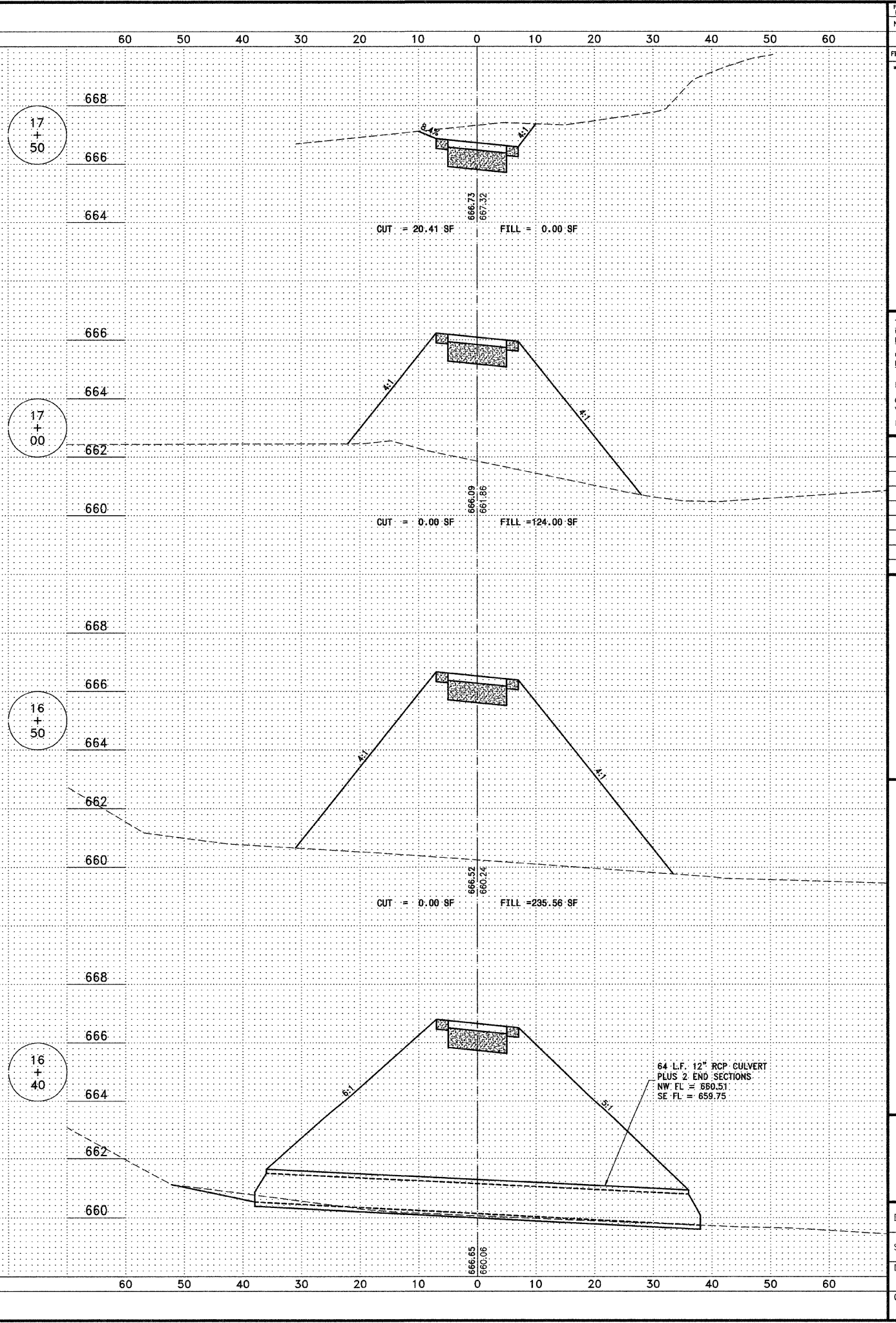
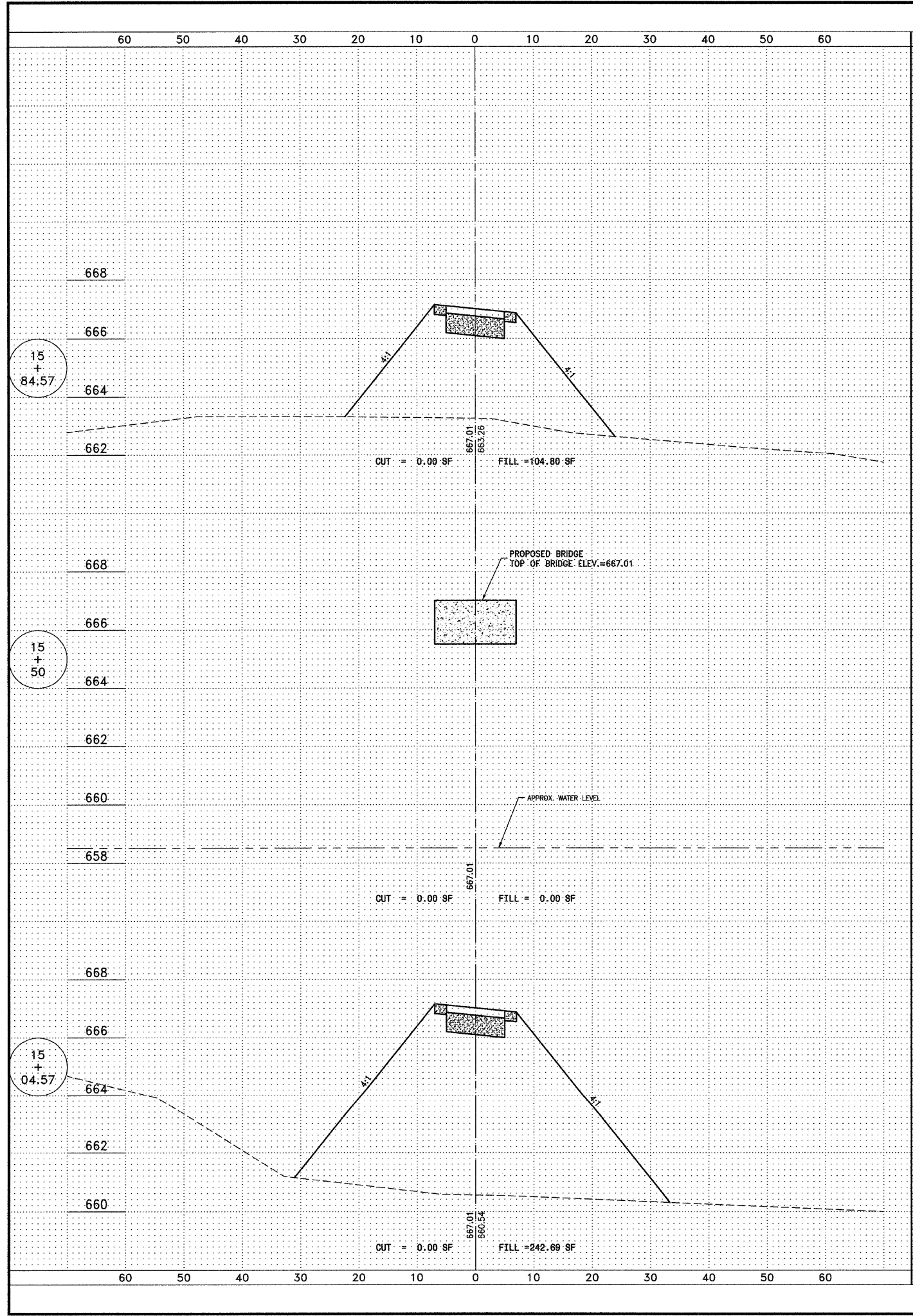
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NO.	DATE	BY	DESCRIPTION

CROSS SECTIONS
GREENWAYS TRAIL

PROJECT:
GREENWAYS TRAIL
MANTENO, ILLINOIS

SECTION
08-00058-00-BT

DATE:	7/15/11	JOB NO.	E08110
SCALE:	HORZ.: 1"=10'	FILE NO.	
VERT.: 1"=2'		SHEET	
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FULL SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	**	KANKAKEE	21	20

CONTRACT NO. 87397
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
 ** 08-00058-00-BT

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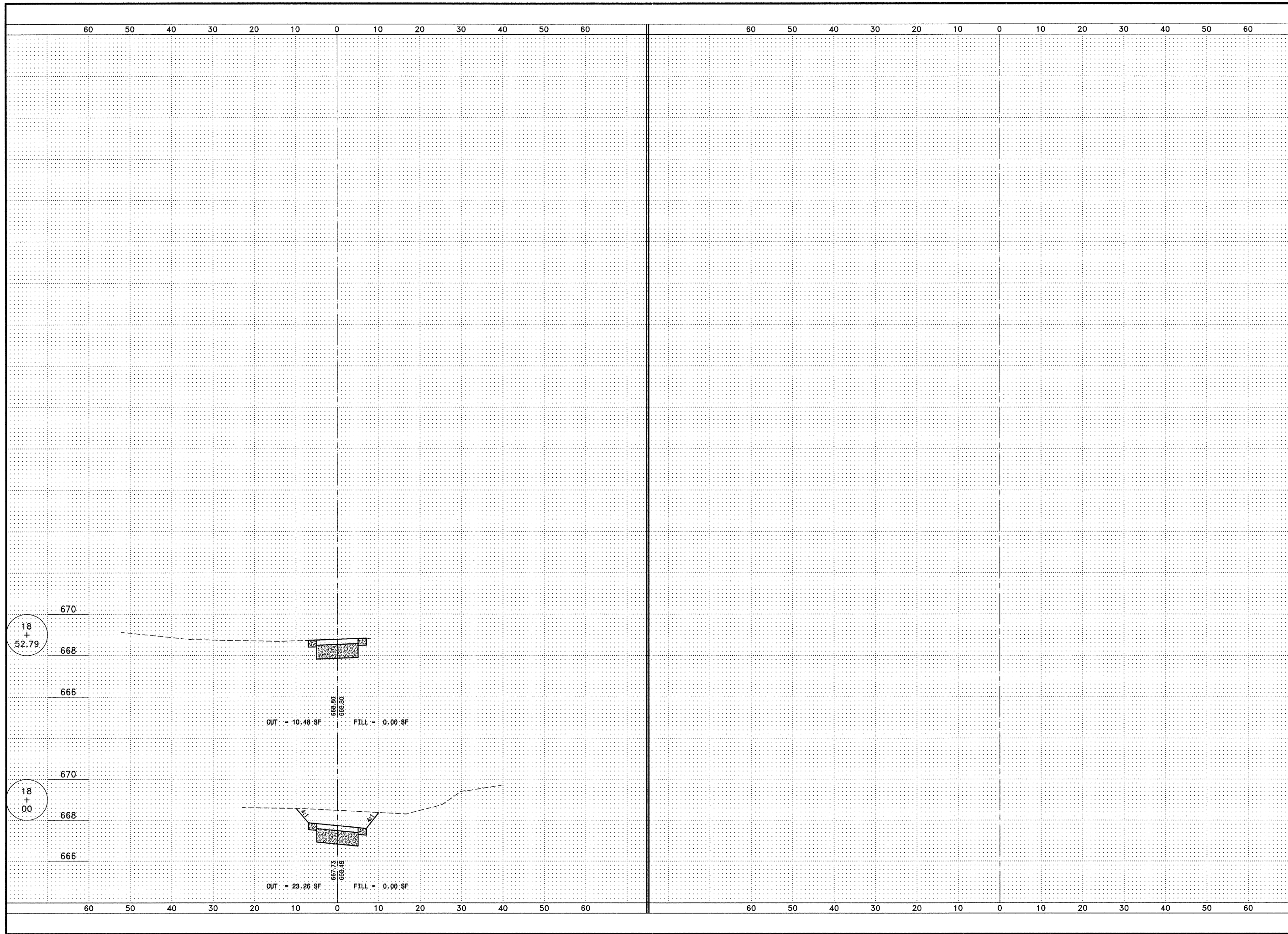
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NO.	DATE	BY	DESCRIPTION

CROSS SECTIONS
 GREENWAYS TRAIL

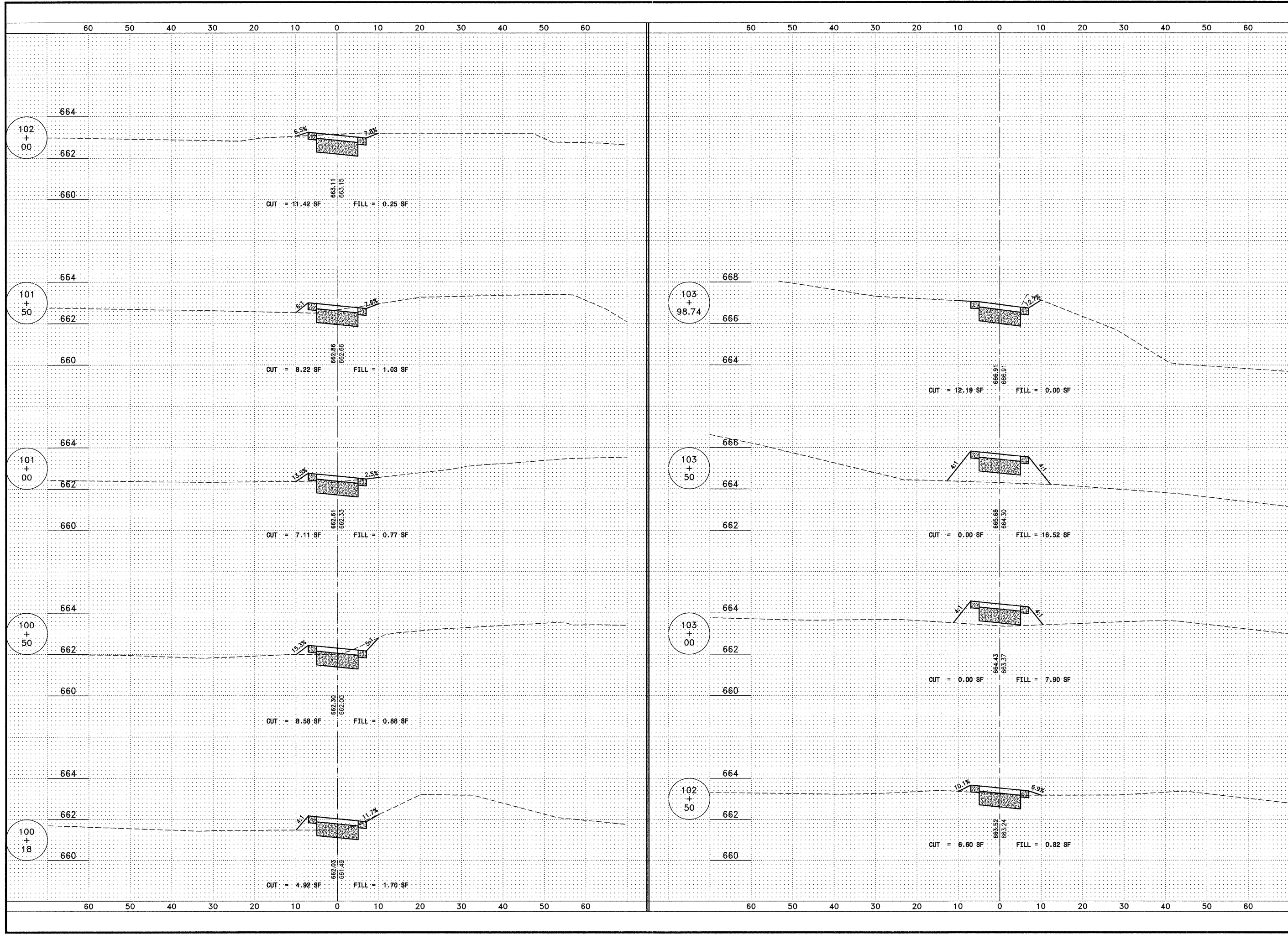
GREENWAYS TRAIL
 MANTENO, ILLINOIS

SECTION
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FALL RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	**	KANKAKEE	21	21

CONTRACT NO. 87397
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CROSS SECTIONS
 GREENWAYS TRAIL

GREENWAYS TRAIL
 MANTENO, ILLINOIS

PROJECT: SECTION 08-00058-00-BT

DATE:	7/15/11	JOB NO.	E08110
SCALE:	HORZ.: 1"=10' VERT.: 1"=2'	FILE NO.	
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CHECKED BY:	SRM		

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