

09-18-2015 LETTING ITEM 007

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FOR INDEX OF SHEETS, SEE SHEET NO. 2

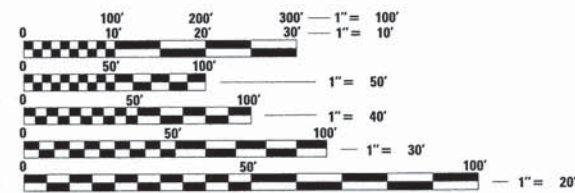
NORTH BRANCH BIKE TRAIL EXTENSION
W DEVON AVE TO FOREST GLEN AVE
BICYCLE TRAIL, RR GRADE SEPARATION, TRAFFIC SIGNALS

SECTION NO. 08-F3000-21-BT
PROJECT NO. CMM-9003(099)
FOREST PRESERVE DISTRICT OF COOK COUNTY
COOK COUNTY
JOB NO: C-91-047-09

DESIGN SPEED
20 MPH

DESIGNATION
BIKE TRAIL

PROJECT IS LOCATED IN
THE CITY OF CHICAGO

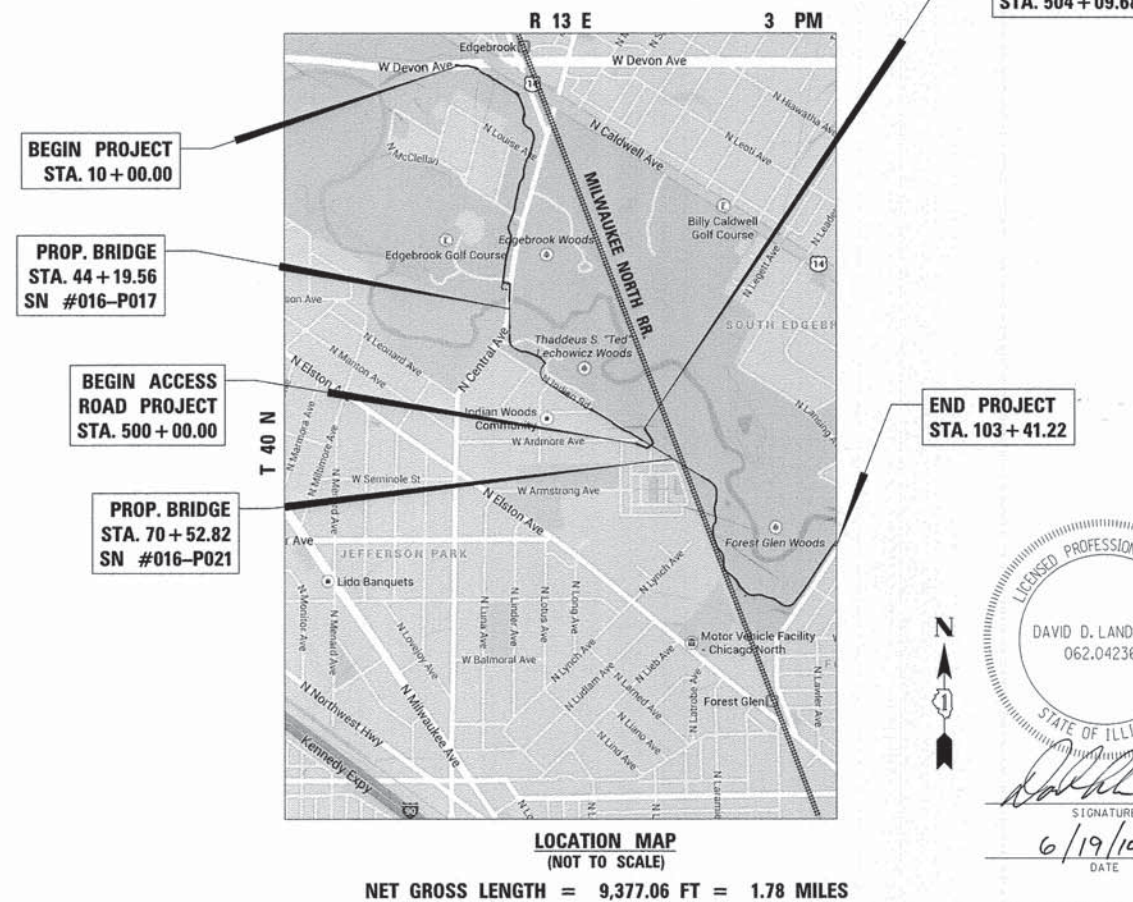


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

CONTRACT NO. 61A86

FEDERAL AID PROGRAM ENGINEER: FAWAD AQUEEL, P.E., P.T.O.E. 847-705-4021, SCHAUMBURG, IL



LOCATION MAP
(NOT TO SCALE)
NET GROSS LENGTH = 9,377.06 FT = 1.78 MILES

END ACCESS
ROAD PROJECT
STA. 504 + 09.68

BEGIN PROJECT
STA. 10 + 00.00

PROP. BRIDGE
STA. 44 + 19.56
SN #016-P017

BEGIN ACCESS
ROAD PROJECT
STA. 500 + 00.00

PROP. BRIDGE
STA. 70 + 52.82
SN #016-P021

END PROJECT
STA. 103 + 41.22



SIGNATURE
6/19/15
DATE

LICENSE EXPIRES 11/30/2015

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	08-F3000-21-BT	COOK	98	1
FED. ROAD DIST. NO. -	ILLINOIS	CONTRACT NO.	61A86	



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Approved June 12 2015
Chris Stalling
FOREST PRESERVE DISTRICT OF COOK COUNTY

Passed JUNE 30 2015
C. Holt CHRISTOPHER HOLT
DISTRICT #1 ENGINEER OF LOCAL ROADS AND STREETS

Releasing for Bid
Based on Limited
Review July 1 2015
John Fortson
DEPUTY DIRECTOR OF HIGHWAYS, REGION #1 ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

PLANS PREPARED BY:
URS 100 South Wacker Drive,
Suite 500
CHICAGO, IL. 60606
TEL. (312)-939-1000

INDEX OF SHEETS

1	TITLE SHEET
2	INDEX OF SHEETS, GENERAL CONSTRUCTION NOTES & STATE STANDARDS
3-6	SUMMARY OF QUANTITIES
7-10	TREE REMOVAL & EARTHWORK SCHEDULES
11	TYPICAL SECTIONS
12-14	ALIGNMENTS, TIES & BENCHMARK
15-21	PLAN AND PROFILE SHEETS - TRAIL
22	PLAN AND PROFILE SHEETS - MWRD
23-32	MISCELLANEOUS DETAILS
33-52	STRUCTURAL BRIDGE SHEETS
53-58	RETAINING WALL SHEETS
59	SIGNAL SHEETS
60-70	CDOT DETAILS
71-75	DISTRICT DETAILS
76-98	CROSS SECTIONS

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-03	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-02	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-02	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-03	DEPRESSED CORNER FOR SIDEWALKS
424026-01	ENTRANCE / ALLEY PEDESTRIAN CROSSINGS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542306-02	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006-05	OFF ROAD OPERATION-2L2W - 15 FT TO EOP
701101-04	OFF ROAD OPERATIONS, MULTILANE, 15' to 24" FROM PAVEMENT EDGE
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701606-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-04	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)

DISTRICT ONE DETAILS

BD-24	CURB AND GUTTER REMOVAL AND REPLACEMENT
BD-36	FIRE HYDRANT TO BE MOVED
BD-51	BENCHING DETAIL FOR EMBANKMENT WIDENING
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS

BENCHMARKS /CONTROL POINTS

SEE ALIGNMENTS, TIES AND BENCHMARK SHEETS

FLOODPLAIN MANAGEMENT

THE COMPENSATORY STORAGE SHALL BE PROVIDED AND OPERATED PRIOR TO PLACEMENT OF THE FILL, STRUCTURES OR OTHER MATERIALS IN THE REGULATORY FLOODPLAIN.

CONSTRUCTION ACCESS LOCATIONS

THE CONSTRUCTION ACCESS LOCATIONS SHALL AVOID WETLAND, WETLAND BUFFER AND RIPARIAN AREAS.

COMMITMENTS

NO CONSTRUCTION TRAFFIC ON BRYN MAWR AVENUE OR INDIAN ROAD.

GENERAL NOTES

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT 847-705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED UTILITY FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED).

ALL STATION-OFFSET CALL OUTS AND CURVE DATA ON THE PLANS REFER TO THE PROPOSED CENTERLINE UNLESS OTHERWISE SHOWN.

SPECIAL ATTENTION IS CALLED TO ARTICLE 107.12 REGARDING RAILROAD FLAGGERS. THE NAMES AND TELEPHONE NUMBERS OF THE RAILROAD ENGINEERS ARE:

MR. DANIEL KNEITA (METRA) 312-322-8016

IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE WITH THE METRA RAILROAD WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD ROW. THE CONTRACTOR SHALL RETAIN FLAGMEN EMPLOYED AND DESIGNATED BY THE METRA RAILROAD TO MONITOR ON-COMING TRAIN TRAFFIC, AND ADVISE CONTRACTOR PERSONNEL SHEN ACTIVITY ON OR NEAR THE RAILROAD RIGHT-OF-WAY MAY PROCEED. THIS ITEM WILL BE PAID FOR ACCORDING TO ARTICLE 107.12 AND WILL BE REIMBURSED ACCORDING TO ARTICLE 109.05.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS.

WHEN NECESSARY, LANE CLOSURES ON IL 50 (CICERO AVE), US 14 (CALDWELL AVE), N. LEHIGH, FOSTER AVE, AND W. DEVON AVE WILL ONLY BE PERMITTED BETWEEN THE HOURS OF 9 AM AND 3 PM.

ANY WORK ON HOLIDAYS AND WEEKENDS WILL NEED PRIOR APPROVAL FROM THE DISTRICT.

SPECIFICATIONS

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2012, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", JULY 2009 6TH EDITION, THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", LATEST EDITION, THE DETAILS INCLUDED IN THE PLANS, AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

STANDARDS

ANY REFERENCE TO "STANDARDS" THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARD OF IDOT AS LISTED ON THIS SHEET.

COORDINATION

THE CONTRACTOR SHALL NOTIFY THE FOREST PRESERVE DISTRICT OF COOK COUNTY AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK, AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER. THE CONTRACTOR SHALL ALSO OBTAIN ANY AND ALL NECESSARY PERMITS REQUIRED BEFORE THE START OF ANY CONSTRUCTION.

PUBLIC OR PRIVATE UTILITIES

THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE, AND THE DEPARTMENT AND DISTRICT DO NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR SHALL BE REQUIRED TO ASCERTAIN THE EXACT LOCATIONS OF SUCH UTILITIES AND EXERCISE CARE DURING CONSTRUCTION OPERATIONS SO AS NOT TO DAMAGE THEM. IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND ARTICLE 107.20 OF THE "STANDARD SPECIFICATIONS". THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE UTILITY OWNERS SO THAT THEIR FACILITIES MAY BE ADJUSTED OR RELOCATED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED IN THE PLANS. ALL RELOCATION WORK ON EXISTING PRIVATE UTILITIES WILL BE DONE BY THE OWNER OF THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR DESTRUCTION OF PUBLIC OR PRIVATE PROPERTY, AND SHALL RESTORE SUCH PROPERTY AT HIS/HER OWN EXPENSE.

SURVEY AND MONUMENTS

ALL ELEVATIONS IN THE PLANS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS UNTIL THE OWNER, HIS AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE MONUMENTS ARE REMOVED.

DISPOSAL OF MATERIALS

THE CONTRACTOR SHALL BE REQUIRED TO DISPOSE OF ALL SIDEWALK, CURB AND GUTTER, PAVEMENT, AND ALL OTHER MATERIALS EXCAVATED OR REMOVED DUE TO CONSTRUCTION OPERATIONS, AT HIS EXPENSE. NO PAYMENT WILL BE MADE FOR HAULING OR TRUCKING MATERIAL TO LOCATIONS, PROVIDED BY THE CONTRACTOR, OUTSIDE THE LIMITS OF THE IMPROVEMENT.

EXISTING DRAINAGE STRUCTURES

DURING CONSTRUCTION OPERATIONS, WHENEVER ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED BY THE CONTRACTOR AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF EARTH EXCAVATION.

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS OR CATCH BASINS. HE SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS, AND DISCHARGE SAME. HE SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET, AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWERS ARE BUILT AND IN SERVICE. THIS WORK WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF PIPE CULVERTS. BEFORE ORDERING PIPE CULVERTS, THE CONTRACTOR SHALL CONTACT THE ENGINEER AS TO THE EXACT LENGTH AND QUANTITY REQUIRED.

UNSUITABLE MATERIAL

BEFORE REMOVAL OF ANY UNSUITABLE MATERIAL, THE CONTRACTOR SHALL TREAT THE SUBGRADE AS PER ARTICLE 301.03 OF THE "STANDARD SPECIFICATIONS" TO THE SATISFACTION OF THE ENGINEER. UNSUITABLE MATERIAL SHALL NOT BE USED AS EMBANKMENT OR FILL UNDER THE PROPOSED TRAIL AS SHOWN ON THE TYPICAL CROSS SECTIONS.

GENERAL CONSTRUCTION NOTES

STOCKPILES STOCKPILES OF TOPSOIL AND OTHER MATERIALS SHALL NOT BE LOCATED WITHIN A SPECIAL MANAGEMENT AREA. APPROVAL OF THE LOCATION MUST BE OBTAINED FROM THE ENGINEER PRIOR TO PLACEMENT. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, EROSION CONTROL MEASURES SHALL BE PROVIDED. STOCKPILES TO REMAIN IN PLACE FOR 30 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

TREE TRIMMING ALL BRANCHES THAT ARE LESS THAN 12 FEET ABOVE THE SURFACE OF THE TRAIL SHALL BE REMOVED BY THE CONTRACTOR. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH ANSI STANDARD A300-2001 (PART 1) FOR TREE, SHRUB AND OTHER WOODY PLANT MAINTENANCE AND ANSI Z133.1-1994 FOR TREE CARE OPERATIONS PRUNING, TRIMMING, REPAIRING, MAINTAINING AND REMOVING TREES AND CUTTING BRUSH. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF TREE REMOVAL.

ACCESS TO PROPERTY THE CONTRACTOR SHALL MAINTAIN ACCESS TO ABUTTING PROPERTY DURING THE CONSTRUCTION OF THIS PROJECT, EXCEPT FOR PERIODS OF SHORT DURATION AS APPROVED BY THE ENGINEER.

SAW CUTTING THE LIMITS OF REMOVAL OF ALL CONCRETE OR BITUMINOUS PAVEMENTS, CURBING OR SIDEWALKS SHALL BE SAWCUT IN ACCORDANCE WITH SECTION 440 OF THE "STANDARD SPECIFICATIONS" AND AT THE DIRECTION OF THE ENGINEER. THE SAW CUTTING OF BITUMINOUS PAVEMENT, DRIVEWAYS, CURBING OR SIDEWALK SHALL BE CONSIDERED INCLUDED IN THE COST OF PAVEMENT REMOVAL, CURB AND GUTTER REMOVAL AND SIDEWALK REMOVAL.

RESTORATION ACCESS GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED WITH SIX INCHES OF TOPSOIL AND SEED OR SOD.

- A. THE CONTRACTOR SHALL BE AWARE OF POTENTIAL LIMITED ACCESS TO PORTIONS OF THE PROJECT. TEMPORARY DRAINAGE CROSSINGS APPROVED BY THE ENGINEER MAY BE INSTALLED BY THE CONTRACTOR AT HIS/HER EXPENSE TO GAIN ACCESS.
- B. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE WITH METRA WHENEVER CONSTRUCTION ACTIVITY IS WITHIN THE RAILROAD ROW.
- C. NO CONSTRUCTION TRAFFIC OR CONTRACTOR VEHICLES ALLOWED ON BRYN MAWR AVE. AT ANY TIME

SEDIMENTATION AND EROSION CONTROL NOTES

- A. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- B. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE.
- C. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS WITHIN 14 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE. PERMANENT STABILIZATION SHALL BE DONE WITHIN 14 DAYS AFTER COMPLETION OF FINAL GRADING.
- D. ALL STORM SEWER FACILITIES THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, FILTERED, OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- E. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.
- F. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION AND REPAIR DURING CONSTRUCTION.
- G. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.
- H. THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL PRIOR TO THE START OF ANY EARTHWORK.
- I. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, EROSION CONTROL MEASURES SHALL BE PROVIDED BY THE CONTRACTOR.
- J. EROSION CONTROL MEASURES SHALL COMPLY WITH THE MINIMUM REQUIREMENTS OF THE COOK COUNTY STORMWATER AND FLOODPLAIN ORDINANCE SPECIFICATIONS AT ALL TIMES.

TREE PRESERVATION NOTES

THE CONTRACTORS ATTENTION IS CALLED TO THE FACT THAT THE PRESERVATION OF EXISTING TREES IS OF UTMOST IMPORTANCE TO THE FOREST PRESERVE DISTRICT OF COOK COUNTY. ALL TREE PROTECTION, TREE REMOVAL, PRUNING AND ROOT PRUNING SHALL BE COMPLETED BEFORE CONSTRUCTION OPERATIONS COMMENCE IN ANY AREA. AT NO TIME SHALL THE CONTRACTOR PRUNE OR REMOVE TREES UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL ERECT A TEMPORARY FENCE AROUND ALL TREES WITHIN THE CONSTRUCTION AREA TO ESTABLISH A "TREE PROTECTION ZONE" AND AROUND EXISTING WETLANDS TO ESTABLISH A "WETLAND PROTECTION ZONE" BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DELIVERED TO THE JOBSITE. NO WORK IS TO BE PERFORMED (OTHER THAN ROOT PRUNING), MATERIALS STORED OR VEHICLES DRIVEN OR PARKED WITHIN THE "TREE PROTECTION ZONE" AND "WETLAND PROTECTION ZONE". REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.

THE CONTRACTOR SHALL TAKE EXTRA CARE IN GRADING AND EXCAVATING NEAR TREES WHICH ARE NOT MARKED FOR REMOVAL SO AS NOT TO CAUSE INJURY TO THE ROOT SYSTEM OR TRUNKS. MAJOR ROOTS OF A TREE THAT ARE TO REMAIN IN PLACE EXTENDING INTO THE EXCAVATION AREAS AT AN ELEVATION THAT WOULD INTERFERE WITH ANY PORTION OF THE PLANNED CONSTRUCTION SHALL BE SEVERED AT A POINT IMMEDIATELY OUTSIDE OF THE EXCAVATION AREA IN A MANNER THAT WILL CAUSE THE LEAST AMOUNT OF SYSTEMIC DAMAGE TO THE REMAINING TREE STRUCTURE.

TREE ROOT PRUNING IS TO BE USED ON EXISTING TREES WHEN NECESSARY TO CUT MAJOR TREE ROOTS TO PREVENT THE RIPPING UP OF ROOTS WHEN TRENCHING OR EXCAVATION IS WITHIN THE ROOT ZONE OF ADJACENT TREES TO REMAIN. SUPPLEMENTAL WATERING IS SPECIFIED FOR TREES AND SHRUBS THAT WILL BE DISTURBED BY CONSTRUCTION BUT WILL REMAIN. SUPPLEMENTAL WATERING OF TREES SHOULD BEGIN IMMEDIATELY AFTER ROOT PRUNING OF THE TREES HAS OCCURRED.

THE CONTRACTOR SHALL ATTACH AN ALUMINUM SIGN WITH THE FOLLOWING TEXT: "PROTECTED WETLAND-NO INTRUSION". THE SIGN(S) SHALL BE ATTACHED TO THE STAKES BY A METHOD APPROVED BY THE ENGINEER. THE SIGN(S) WILL BE PROVIDED BY THE DEPARTMENT AND SHALL BE PICKED UP BY THE CONTRACTOR FROM THE DISTRICT ONE ROADSIDE DEVELOPMENT ARCHITECT IN SCHAUMBURG, ILLINOIS. SCHEDULING THE PICKUP OF THE SIGNS CAN BE ARRANGED BY CONTACTING THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171. WHEN WORK HAS BEEN COMPLETED, THE SIGN(S) SHALL BE RETURNED TO THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT. THE COST OF PICKING UP, ATTACHING THE SIGNS TO THE TEMPORARY FENCE STAKES AND RETURNING THE SIGNS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TEMPORARY FENCE.

FILE NAME = 08FILES



USER NAME = #USER#	DESIGNED - DDL	REVISED -
	DRAWN - KJB	REVISED -
PLOT SCALE = #SCALE#	CHECKED - DDL	REVISED -
PLOT DATE = #DATE#	DATE - 6/22/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH BIKE TRAIL EXTENSION INDEX OF SHEETS, GENERAL CONSTRUCTION NOTES AND HIGHWAY STANDARDS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: ———			08-F3000-21-BT	COOK	98	2
SHEET NO. 1 OF 1 SHEETS		STA. ———	TO STA. ———		CONTRACT NO. 61A86	
		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

"SUMMARY OF QUANTITIES"

CODE NO.	ITEM	UNIT	TOTAL QUANTITY 0028
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	3,194
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	2027
20101000	TEMPORARY FENCE	FOOT	2705
20101100	TREE TRUNK PROTECTION	EACH	30
* 20101200	TREE ROOT PRUNING	EACH	20
* 20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	50
* 20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	50
20200100	EARTH EXCAVATION	CU YD	286
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	5105
20400800	FURNISHED EXCAVATION	CU YD	5664
20700220	POROUS GRANULAR EMBANKMENT	CU YD	106
20800150	TRENCH BACKFILL	CU YD	39
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	8639
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	8952
* 25000115	SEEDING, CLASS 1B	ACRE	1.1
* 25000312	SEEDING, CLASS 4A	ACRE	0.8
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	98
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	98
* 25100115	MULCH, METHOD 2	ACRE	1.9
* 25100630	EROSION CONTROL BLANKET	SQ YD	3774
* 25200200	SUPPLEMENTAL WATERING	UNIT	100

CODE NO.	ITEM	UNIT	TOTAL QUANTITY 0028
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	185
28000400	PERIMETER EROSION BARRIER	FOOT	12350
28100103	STONE RIP RAP, CLASS A2	SQ YD	22
28100107	STONE RIP RAP, CLASS A4	SQ YD	317
28200200	FILTER FABRIC	SQ YD	347
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	2550
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	372
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	7630
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	17168
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	855
42001300	PROTECTIVE COAT	SQ YD	448
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	3223
42400800	DETECTABLE WARNINGS	SQ FT	403
44000100	PAVEMENT REMOVAL	SQ YD	220
44000600	SIDEWALK REMOVAL	SQ FT	4828
50200100	STRUCTURE EXCAVATION	CU YD	802
50200300	COFFERDAM EXCAVATION	CU YD	59
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	106
50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	292.8

* = SPECIALTY ITEMS

FILE NAME: *PFILE*



USER NAME = #USER*
 PLOT SCALE = #SCALE*
 PLOT DATE = #DATE*

DESIGNED - DDL
 DRAWN - KJB
 CHECKED - DDL
 DATE - 6/22/15

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTH BRANCH BIKE TRAIL EXTENSION
 SUMMARY OF QUANTITIES**

SCALE: SHEET NO. OF 1 SHEETS STA. TO STA. —

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	3
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A86	

"SUMMARY OF QUANTITIES"

CODE NO.	ITEM	UNIT	TOTAL QUANTITY 0028
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	48208
* 50901720	BICYCLE RAILING	FOOT	284
* 50901760	PIPE HANDRAIL	FOOT	210
51201600	FURNISHING STEEL PILES HP 12X53	FOOT	1636
51201610	FURNISHING STEEL PILES HP 12X63	FOOT	204
51202305	DRIVING PILES	FOOT	1840
51203600	TEST PILE STEEL HP 12X53	EACH	7
51203610	TEST PILE STEEL HP 12X63	EACH	2
51204650	PILE SHOES	EACH	61
52000110	PREFORMED JOINT STRIP SEAL	FOOT	117
542A0217	PIPE CULVERTS, CLASS A, TYPE I 12"	FOOT	124
542A0220	PIPE CULVERTS, CLASS A, TYPE I 15"	FOOT	60
542A5485	PIPE CULVERTS, CLASS A, TYPE I EQUIVALENT ROUND-SIZE 30"	FOOT	96
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	12
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	4
54214515	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 30"	EACH	8
58700300	CONCRETE SEALER	SQ FT	3342
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	68
60253800	CATCH BASINS TO BE RECONSTRUCTED WITH NEW TYPE 8 GRATE	EACH	1
60255500	MANHOLES TO BE ADJUSTED	EACH	4

CODE NO.	ITEM	UNIT	TOTAL QUANTITY 0028
60266600	VALVE BOXES TO BE ADJUSTED	EACH	1
* 63200310	GUARDRAIL REMOVAL	FOOT	25
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	18
67100100	MOBILIZATION	L SUM	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DAY	60
72000100	SIGN PANEL - TYPE 1	SQ FT	222.5
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	4
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	8
72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	2
72900100	METAL POST - TYPE A	FOOT	297
72900200	METAL POST - TYPE B	FOOT	309
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1498
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1189
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	163
* 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	3132
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	8299
* 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	70

* = SPECIALTY ITEMS

FILE NAME: #FILES#



USER NAME: #USER#
 PLOT SCALE: #SCALE#
 PLOT DATE: #DATE#

DESIGNED - DDL
 DRAWN - KJB
 CHECKED - DDL
 DATE - 6/22/15

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTH BRANCH BIKE TRAIL EXTENSION
 SUMMARY OF QUANTITIES**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	4
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 61A86	

"SUMMARY OF QUANTITIES"

CODE NO.	ITEM	UNIT	TOTAL QUANTITY 0028
78300100	PAVEMENT MARKING REMOVAL	SQ FT	382
* 81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	495
* 87301270	ELECTRIC CABLE IN CONDUIT #14 10C	FOOT	253
* 87301800	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 4 2 C	FOOT	64
* 87502690	TRAFFIC SIGNAL POST, ALUMINUM 15 FT.	EACH	3
* 88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
* 88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
* 88800100	PEDESTRIAN PUSH BUTTON	EACH	2
* 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	302
Z0007116	TREATED TIMBER LAGGING	SQ FT	816
Z0013302	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	1765
Z0026402	FURNISHING SOLDIER PILES (HP SECTION)	FOOT	545
* Z0033038	CONTROLLER, TRAFFIC, 16 LOAD BAY, P CABINET	EACH	1
* Z0033050	COAXIAL CABLE IN CONDUIT	FOOT	117
Z0034210	MECHANICALLY STABILIZED EARTH RETAINING WALL	SQ FT	2793
Z0042300	PORTLAND CEMENT CONCRETE SIDEWALK CURB	FOOT	234
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	150
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1
* Z0055800	RUSTIC RAIL FENCE	FOOT	272

CODE NO.	ITEM	UNIT	TOTAL QUANTITY 0028
* Z0069600	STREET LIGHT STANDARDS TO BE RELOCATED	EACH	5
Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1857
Δ Z0076600	TRAINEES	HOUR	500
Δ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500
LR355225	BASE COURSE AGGREGATE	TON	213
* A2001010	TREE, ACER RUBRUM (RED MAPLE), 1-1/4" CALIPER, BALLED AND BURLAPPED	EACH	20
* A2002912	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 1-1/2" CALIPER, BALLED AND BURLAPPED	EACH	20
* A2006414	TREE, QUERCUS ALBA (WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	25
* A2006510	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-1/4" CALIPER, BALLED AND BURLAPPED	EACH	15
* A2006712	TREE, QUERCUS MACROCARPA (BUR OAK), 1-1/2" CALIPER, BALLED AND BURLAPPED	EACH	20
* A2007112	TREE, QUERCUS RUBRA (RED OAK), 1-1/2" CALIPER, BALLED AND BURLAPPED	EACH	15
* A2007612	TREE, TAXODIUM DISTICHUM (COMMON BALD CYPRESS), 1-1/2" CALIPER, BALLED AND BURLAPPED	EACH	15
* A2007814	TREE, TILIA AMERICANA (AMERICAN LINDEN/BASSWOOD), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	20
* C2C01324	SHRUB, CLETHRA ALNIFOLIA (SUMMERSWEET CLETHRA), 2' HEIGHT, CONTAINER	EACH	3
X0321322	DROP GATE	EACH	1
X0322508	PEDESTRIAN TRUSS SUPERSTRUCTURE	SQ FT	16800
* X0322690	POLE, STEEL, ANCHOR BASE, 10" DIA., 3-GAUGE, 34'-6"	EACH	3
* X0324900	SERVICE CONNECTION TO CECO LINE	EACH	1
X0325751	DRIVING SOLDIER PILES	FOOT	545
* X0326328	STREET LIGHTING CABLE, 1/C NO. 6, CITY OF CHICAGO STANDARD	FOOT	1000

* = SPECIALTY ITEMS Δ = CONSTRUCTION TYPE CODE 0042

FILE NAME = #FILE#

USER NAME = #USER#	DESIGNED - DDL	REVISED -
DRAWN - KJB	CHECKED - DDL	REVISED -
PLOT SCALE = #SCALE#	DATE - 6/22/15	REVISED -
PLOT DATE = #DATE#		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**NORTH BRANCH BIKE TRAIL EXTENSION
SUMMARY OF QUANTITIES**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	5
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A86	

"SUMMARY OF QUANTITIES"

CODE NO.	ITEM	UNIT	TOTAL QUANTITY 0028
* X0326885	VIDEO DETECTION SYSTEM	EACH	1
* X0326968	JUNCTION BOX, POLE OR POST MOUNTED	EACH	6
X0327018	DECORATIVE SIGN POST	EACH	1
X0350810	BOLLARD REMOVAL	EACH	45
* X0934900	MAST ARM, STEEL, MONOTUBE, 26 FT.	EACH	3
X6020084	MANHOLE, SPECIAL	EACH	2
* X8050095	SERVICE INSTALLATION (SPECIAL)	EACH	1
X8140105	HANDHOLE (SPECIAL)	EACH	1
* X8780105	CONCRETE FOUNDATIONS (SPECIAL)	EACH	12
* XX002182	STREET NAME SIGN MAST ARM MOUNT	EACH	3
* XX003663	PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
XX006822	TRAIL HEAD MAP	EACH	10
XX007452	RELOCATE BOLLARDS	EACH	2
XX007581	PANEL REPLACEMENT (SPECIAL)	EACH	4
XX007609	GRASS PAVERS	SQ YD	638
* XX008713	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 19/C	FOOT	332
XX008724	TRENCH AND BACKFILL WITH SCREENINGS	FOOT	280
* XX008998	ELECTRIC CABLE IN CONDUIT, VIDEO NO. 14 3C	FOOT	117

* = SPECIALTY ITEMS

FILE NAME = #FILE#

USER NAME = #USER#	DESIGNED - DDL	REVISED -
	DRAWN - KJB	REVISED -
PLOT SCALE = #SCALE#	CHECKED - DDL	REVISED -
PLOT DATE = #DATE#	DATE - 6/22/15	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**NORTH BRANCH BIKE TRAIL EXTENSION
SUMMARY OF QUANTITIES**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	6
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A86	

TREE REMOVAL SCHEDULE				
STATION	OFFSET		6-15 UNITS	>15 UNITS
	LT	RT		
14+06		9.6	6	
14+07		7.3	12	
14+43	0.4			18
14+43		1.3	10	
14+49		8.0	10	
14+51		4.4	10	
14+55		7.8	6	
14+84		2.5	6	
14+84	0.2		10	
15+16	1.2		14	
15+28		7.9	8	
15+33		7.8		22
15+42	1.2			24
15+62	2.2		10	
15+88		1.9	7	
15+99		2.2		16
16+12		3.5	6	
16+15		0.4		18
16+42		10.7	6	
16+43	3.8		14	
16+72	0.4		15	
16+84		5.1	6	
17+06	3.3		6	
17+12		6.1		28
17+19		1.5		20
17+26		0.3		18
17+29		9.9	8	
17+33	0.0	0.0		20
17+45		5.9	12	
17+54		6.3	15	
17+60		8.5	15	
17+75		5.7	15	
17+87		11.0	8	
19+79		6.7		20
19+97		4.1	8	
20+12	3.1			18
20+55	0.6		12	
20+59	7.3		8	
20+65		4.2	10	
20+75		7.7	8	
20+81		7.1	8	
21+00	9.4			22
21+09	1.5		8	
21+25	5.1		12	
21+48	8.9		6	
21+93	5.0		6	
22+03		7.3	6	
22+60		8.2	8	
23+37		0.7	10	
23+64	2.3		10	
23+67	0.0		8	

TREE REMOVAL SCHEDULE				
STATION	OFFSET		6-15 UNITS	>15 UNITS
	LT	RT		
23+89	5.7		7	
24+76	6.3		11	
25+06		8.1	14	
25+51		7.1	10	
26+77		10.4	8	
26+84		7.5		38
27+33		5.5	12	
27+51		3.4	6	
27+56		1.0	14	
27+88		4.3	8	
27+95		2.7	8	
28+02		5.3	6	
28+07		4.3	8	
30+16		4.0	7	
30+41		5.3	9	
30+46		6.2	13	
30+91		5.1	7	
31+50		6.7	6	
34+08		7.3		30
35+03		3.2		22
35+19		4.7	7	
35+83		5.7	6	
35+87		5.7	8	
35+89		4.4	12	
36+03		1.9	6	
36+03		4.5	9	
36+27		2.2	7	
36+63		0.0	8	
36+70		4.0		23
36+71		0.0	6	
36+96		7.8	8	
37+07		0.0	11	
37+21		2.6	9	
37+24	2.3		9	
37+45		4.1	12	
37+59		7.2	10	
37+60	2.8		10	
37+94		5.0	10	
38+01		7.3	10	
38+03		10.4	10	
38+45		8.0	12	
38+62		7.5	7	
38+90		5.6	7	
38+95		9.2		26
39+13		9.3	8	
39+49		11.2	8	
39+52		17.6	10	
39+53		12.3	8	
39+57		17.6	15	
39+58		11.8	8	

TREE REMOVAL SCHEDULE				
STATION	OFFSET		6-15 UNITS	>15 UNITS
	LT	RT		
40+45	3.5		8	
40+74	1.6		15	
40+82	8.7		6	
40+85		7.5	6	
40+92	14.0		6	
40+94	1.9		6	
40+99		6.9	8	
41+17	9.8		12	
43+39	6.4		6	
44+51		5.4		30
44+58		2.3	15	
44+82		6.5	12	
45+02	2.6		6	
45+54		1.0	12	
45+99		8.3	8	
46+07	2.6		10	
46+55	9.6		15	
46+66	6.6		8	
46+75	15.1			24
47+25		1.8	12	
47+99		6.8	10	
48+28		0.6	8	
48+45		9.7	8	
48+55	8.0		7	
48+92		1.4	13	
48+92		1.4	13	
48+92		0.3	7	
48+93	3.8		6	
49+39		8.7	8	
49+48		8.6	8	
49+57		9.4	8	
50+62		8.2	13	
51+14		3.3		20
65+79	17.3			18
65+80	10.8			18
65+83	12.6		7	
65+90	13.6		6	
65+94	19.8		8	
65+97	4.7			18
66+01	12.1		11	
66+51	11.7			39
66+58	13.0		9	
66+59		3.6	12	
66+65	3.4			39
66+69	6.4		14	
67+02	7.9		14	
67+04	5.6		8	
67+04	20.8		12	
67+09	4.6		15	
67+12		5.6	15	

FILE NAME = #FILE#



USER NAME = #USER#
 PLOT SCALE = #SCALE#
 PLOT DATE = #DATE#

DESIGNED - DDL
 DRAWN - KJB
 CHECKED - DDL
 DATE - 6/22/15

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

NORTH BRANCH BIKE TRAIL EXTENSION
 SCHEDULES - TREE REMOVAL

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	7
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61A86	

TREE REMOVAL SCHEDULE				
STATION	OFFSET		6-15 UNITS	>15 UNITS
	LT	RT		
67+20	4.6		6	
67+32	15.0			33
67+32		22.0		36
67+41	3.4			16
67+46	6.1			36
67+50		28.0		38
67+65	6.2			16
67+94		6.6		38
68+04	6.7		10	
68+07		12.1	7	
68+45		11.5		26
68+47	10.3		10	
68+63	6.9			26
68+63		4.6	8	
68+66		12.2		31
68+75		3.3	12	
68+82		10.6	12	
68+85	0.0	0.0	6	
68+85		11.4		28
68+89	11.3		14	
68+95		5.9		28
69+07	9.3		8	
69+07	13.7		12	
69+11	1.7		10	
69+11		14.3		26
69+13	9.2			22
69+22	2.3			20
69+28		3.9	8	
69+38		11.3		16
69+59	8.8			20
69+66		3.5	7	
69+73		9.2	12	
69+75	2.2		7	
69+80	5.0			27
71+38	9.8		6	
71+39	12.6		6	
71+55		8.6		18
71+62	8.7		12	
71+65	3.2		6	
71+74		8.0	6	
72+01	12.3		6	
72+08	5.5		6	
72+16	7.7		10	
72+17	13.2		8	
72+37	2.3		12	
72+70	1.4		8	
72+75		6.0	13	
72+84		9.0	15	
73+21	8.9		8	
73+25	9.3		7	

TREE REMOVAL SCHEDULE				
STATION	OFFSET		6-15 UNITS	>15 UNITS
	LT	RT		
73+25		6.4	12	
73+29		7.1		16
73+97		18.1		17
74+06	4.7			22
74+23		11.6	10	
74+25	3.5		9	
74+39		8.7	6	
74+51		11.3		26
74+60		14.5	6	
74+65		21.6	15	
74+69		11.0	9	
74+69	5.1		9	
74+72		10.8	6	
74+73		13.5	6	
74+75	13.7			18
74+78		9.1	6	
74+91		25.5	15	
74+93		26.1	8	
74+94		23.2	6	
74+94	8.5		6	
74+95	13.2			16
74+97	11.0		6	
75+03		10.1	14	
75+06		21.1	6	
75+07		18.3	8	
75+07		14.7		16
75+12	23.6		12	
75+12		18.4	12	
75+15		6.2	15	
75+17		14.9	12	
75+29	0.2			28
75+31		16.0	15	
75+34		21.0	15	
75+34	21.4		10	
75+41	16.9		6	
75+45	8.4		6	
75+50	10.9		6	
75+50	13.2		14	
75+50	14.7		6	
75+53	11.6		6	
75+57		11.1		20
75+58	9.3		10	
75+65	13.4		14	
75+66		17.9	9	
75+70		15.0	9	
75+83	5.9		13	
76+05		9.0	12	
76+10		1.9	10	
76+17		15.9	12	
76+23		1.4	8	

TREE REMOVAL SCHEDULE				
STATION	OFFSET		6-15 UNITS	>15 UNITS
	LT	RT		
76+43		4.5	13	
76+84	5.6		6	
76+86	6.2		12	
77+06	10.6		13	
77+07		7.7	13	
77+08		8.0	12	
77+19	8.1		14	
77+20	9.1		14	
77+32	6.6		6	
77+38	5.9		6	
78+26	11.9		7	
78+30	6.2		9	
78+40		6.4	6	
78+44		8.4	8	
78+45	7.6		11	
78+65	5.9		9	
79+03		9.3	10	
79+16		5.5	9	
79+30	16.0		17	
79+56	7.9			17
79+61	8.8			17
80+68		3.3	14	
80+84	4.5		6	
81+06		0.9	12	
81+15		5.6	12	
81+27	3.1		6	
81+57		3.2	15	
81+90		6.7	12	
82+14	5.3		15	
82+26	10.9		12	
82+30	8.6		6	
82+37		3.5		16
82+61	0.2		14	
82+85	16.4		6	
82+89	15.2			18
82+92		6.5		36
83+06	1.7		8	
83+32	0.6		6	
83+42		10.3		23
83+48		23.4	15	
83+71	2.3		15	
83+79	0.7			17
83+93		3.2	12	
84+26		9.3	6	
84+29		3.1	6	
84+39		1.5	13	
84+47		13.9	8	
84+58	13.9			16
84+80	1.4		14	
84+94	6.6		6	

FILE NAME = #FILES#



USER NAME = #USER#	DESIGNED - DDL	REVISED -
DRAWN - KJB	REVISED -	
CHECKED - DDL	REVISED -	
DATE - 6/22/15	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH BIKE TRAIL EXTENSION
SCHEDULES - TREE REMOVAL

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	8
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61A86	

TREE REMOVAL SCHEDULE				
STATION	OFFSET		6-15 UNITS	>15 UNITS
	LT	RT		
85+00				40
85+02		2.6	6	
85+05		2.2	14	
85+23		0.0	12	
85+37		9.5	8	
85+38	2.4		10	
85+41	9.6		14	
85+58	9.7		6	
85+82		0.9	13	
85+86	1.9		9	
85+86	5.9			20
86+20	8.0		6	
86+28		1.8	14	
86+31		1.8	14	
86+65	0.0			17
86+95		4.8	6	
87+59		13.3	8	
87+73	9.2		15	
87+98		0.0		16
88+15		11.1		20
90+80		13.7		16
90+81		11.1		16
90+82		12.4	14	
90+91	3.2		13	
91+02		11.0		21
91+04		9.9		16
91+61	1.0		10	
91+66	0.6		15	
91+89	5.8		6	
92+19	7.6			18
94+88		6.3	12	
95+40	11.1		15	
95+85	7.8		12	
96+41	9.4		10	
96+56	11.0			20

TREE REMOVAL SCHEDULE				
STATION	OFFSET		6-15 UNITS	>15 UNITS
	LT	RT		
97+19		3.7	8	
97+31	6.9		8	
97+32	10.5		15	
97+41	7.3			20
97+50	6.9		8	
97+57	10.7			20
97+84	2.7		12	
97+97	3.6		8	
98+09	3.0		15	
99+08	4.8		6	
101+14		0.3	8	
101+21	2.8		8	
101+23	0.3		12	
101+27	2.0		6	
20% GROWTH			532	338
SUBTOTAL			3194	2027

TEMPORARY FENCE SCHEDULE			
STATION TO STATION	OFFSET	LENGTH (FT)	
23+25.00	25+95.00	LT	270
26+35.00	32+78.00	LT	643
47+73.00	51+40.00	RT	367
60+00.00	64+40.00	LT	440
81+75.00	86+15.00	RT	440
82+00.00	87+45.00	LT	545
TOTAL:			2,705

FILE NAME = #FILE#



USER NAME = #USER#	DESIGNED - DDL	REVISED -
PLOT SCALE = #SCALE#	DRAWN - KJB	REVISED -
PLOT DATE = #DATE#	CHECKED - DDL	REVISED -
	DATE - 6/22/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH BIKE TRAIL EXTENSION
SCHEDULES - TREE REMOVAL & TEMPORARY FENCE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	9
SCALE:		SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
				CONTRACT NO. 61A86

SIGN INSTALLATION SCHEDULE

STATION	RT/LT	SIGN	DESIGNATION	SIGN PANEL DIMENSIONS (IN)		TYPE A POST (EACH)	TYPE B POST (EACH)	LENGTH /POST (FT)	TOTAL LENGTH (FT)
11+35.00	LT	N Branch Trail	SPECIAL	24	18		1	12	12
		BIKE ROUTE	D11-1	24	18				
11+87.00	LT	COMBINATION BIKE AND PED CROSSING	W11-15	30	30	2		14	28
		DIAGONAL ARROW	W16-17P	24	12				
EASTBOUND DEVON AVE.	RT	COMBINATION BIKE AND PED CROSSING	W11-15	36	36		2	15.5	31
		AHEAD	W16-9P	24	12				
		N Branch Trail	SPECIAL	24	6				
WESTBOUND DEVON AVE.	RT	COMBINATION BIKE AND PED CROSSING	W11-15	36	36		2	15.5	31
		AHEAD	W16-9P	24	12				
		N Branch Trail	SPECIAL	24	6				
14+30.00	RT	N Branch Trail	SPECIAL	24	18		1	12	12
		BIKE ROUTE	D11-1	24	18				
37+85.00	RT	COMBINATION BIKE AND PED CROSSING	W11-15	36	36		2	15.5	31
		AHEAD	W16-9P	24	12				
		N Branch Trail	SPECIAL	24	6				
39+60.00	RT	N Branch Trail	SPECIAL	24	18		1	12	12
		BIKE ROUTE	D11-1	24	18				
39+70.00	LT	COMBINATION BIKE AND PED CROSSING	W11-15	36	36		2	15	30
		DIAGONAL ARROW	W16-7P	24	12				
40+30.00	RT	COMBINATION BIKE AND PED CROSSING	W11-15	36	36		2	15	30
		DIAGONAL ARROW	W16-7P	24	12				
40+42.00	LT	N Branch Trail	SPECIAL	24	18		1	12	12
		BIKE ROUTE	D11-1	24	18				
44+10.00	RT	COMBINATION BIKE AND PED CROSSING	W11-15	36	36		2	15.5	31
		AHEAD	W16-9P	24	12				
		N Branch Trail	SPECIAL	24	6				
47+30.00	RT	STOP	R1-1	18	18	1		10	10
47+35.00	LT	COMBINATION BIKE AND PED CROSSING	W11-15	30	30	2		14	28
		DIAGONAL ARROW	W16-17P	24	12				
47+78.00	RT	COMBINATION BIKE AND PED CROSSING	W11-15	30	30	2		14	28
		DIAGONAL ARROW	W16-17P	24	12				
47+90.00	LT	STOP	R1-1	18	18	1		10	10
51+45.00	RT	STOP	R1-1	18	18	1		10	10
51+50.00	LT	BICYCLE WARNING	W11-1	24	24		1	14.5	14.5
		SHARE THE ROAD	W16-1P	24	18				
51+65.00	LT	N Branch Trail	SPECIAL	24	18	2		14.25	28.5
		BIKE ROUTE	D11-1	24	18				
		BICYCLE ROUTE DIRECTION ARROW	M5-1	12	9				
51+85.00	LT	N Branch Trail	SPECIAL	24	18	2		14.25	28.5
		BIKE ROUTE	D11-1	24	18				
		BICYCLE ROUTE DIRECTION ARROW	M5-1	12	9				
56+54.00	LT	BICYCLE WARNING	W11-1	24	24		1	14.5	14.5
		SHARE THE ROAD	W16-1P	24	18				
56+80.50	RT	STOP	R1-1	18	18	1		10	10
60+30.00	LT	N Branch Trail	SPECIAL	24	18		1	12	12
		BIKE ROUTE	D11-1	24	18				
82+00.00	RT	Caution: Bike Path May Flood Ahead	SPECIAL	24	18	1		10	10
89+50.00	LT	N Branch Trail	SPECIAL	24	18		1	12	12
		BIKE ROUTE	D11-1	24	18				
90+00.00	LT	Caution: Bike Path May Flood Ahead	SPECIAL	24	18	1		10	10

SIGN INSTALLATION SCHEDULE

STATION	RT/LT	SIGN	DESIGNATION	SIGN PANEL DIMENSIONS (IN)		TYPE A POST (EACH)	TYPE B POST (EACH)	LENGTH /POST (FT)	TOTAL LENGTH (FT)
94+00.00	RT	N Branch Trail	SPECIAL	24	18		1	12	12
		BIKE ROUTE	D11-1	24	18				
100+95.00	RT	COMBINATION BIKE AND PED CROSSING	W11-15	30	30	2		14.5	29
		AHEAD	W16-9P	24	12				
		N Branch Trail	SPECIAL	24	6				
102+55.00	LT	N Branch Trail	SPECIAL	24	18		1	12	12
		BIKE ROUTE	D11-1	24	18				
102+65.00	RT	STOP	R1-1	18	18	1		10	10
102+92.00	LT	COMBINATION BIKE AND PED CROSSING	W11-15	30	30	2		14	28
		DIAGONAL ARROW	W16-17P	24	12				
103+22.60	RT	COMBINATION BIKE AND PED CROSSING	W11-15	30	30				
		DIAGONAL ARROW	W16-17P	24	12				
SOUTHBOUND FOREST GLEN AVE.	LT	COMBINATION BIKE AND PED CROSSING	W11-15	30	30	2		14.5	29
		AHEAD	W16-9P	24	12				
		N Branch Trail	SPECIAL	24	6				
TOTAL				222.5 SF		297 FT	309 FT		

North Branch Bicycle Trail Tree Planting

Species	Common Name	Quantity
Quercus alba	White Oak	25
Quercus bicolor	Swamp White Oak	15
Quercus macrocarpa	Burr Oak	20
Quercus rubra	Red Oak	15
Acer rubrum	Red Maple	20
Taxodium distichum	Bald Cypress	15
Celtis occidentalis	Hackberry	20
Tilia americana	Linden	20
TOTAL		150

LOCATIONS OF TREES TO BE DETERMINED IN FIELD BY THE ENGINEER

Signage North Branch Bicycle Trail	Existing panels to be replaced		New panels, frames & install	
	Full Size 4' x 6'	Half Size 2' x 3'	Full Size 4' x 6'	Half Size 2' x 3'
Irene Hernandez			X	
La Bagh Woods			X	
Indian Road Woods			X	
Devon			X	
Bunker Hill	X			
Caldwell Wood			X	
Miami Woods			X	
Linne Woods	X			
Harms Woods	X			
Blue Star			X	
Happ Road			X	
Tower Road	X			
Dundee			X	
Lake Cook Road			X	
TOTAL	4		10	

EARTHWORK SCHEDULE

STATION	TO STATION	EARTH EXCAVATION		EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) FURNISHED EXCAVATION	UNSUITABLE EXCAVATION (REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL)	UNSUITABLE MATERIAL ADJUSTED FOR SHRINKAGE (25%)	TOPSOIL FURNISH AND PLACE, 6"	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (UNSUITABLE MATERIAL)	
		CU YD	CU YD						CU YD	CU YD
1	10+00.00	40+00.00	13	10	1,176	-1,166	1,655	1,241	429	813
2	40+00.00	70+00.00	27	20	973	-953	1,040	780	281	498
3	70+00.00	103+41.00	246	184	3,699	-3,515	2,303	1,727	705	1,022
MVRD ACCESS DRVE		500+00.00	504+09.68	0	0	30	107	80	76	4
TOTAL:			286	214	5,879	-5,664	5,105	3,829	1,492	2,337



USER NAME = #USER#	DESIGNED = DDL	REVISED =
PLOT SCALE = #SCALE#	DRAWN = KJB	REVISED =
PLOT DATE = #DATE#	CHECKED = DDL	REVISED =
	DATE = 6/22/15	REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH BIKE TRAIL EXTENSION
SCHEDULES - EARTHWORK, SIGN INSTALLATION, & TREES

SCALE: SHEET NO. OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	10
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

BITUMINOUS MIXTURE REQUIREMENTS

ITEM	VOIDS	USAGE
HOT-MIX ASPHALT SURFACE COURSE, MIX. D, N50 (IL 9.5 mm; 2")	4% @ 50 GYRE	BIKE PATH SURFACE

THE UNIT WEIGHT USED TO CALCULATE ALL BITUMINOUS MIXTURE QUANTITIES IS 112 LBS/SQ. YD./IN.

THE AC TYPE SHALL BE PG-64-22 UNLESS MODIFIED BY SPECIAL PROVISIONS FOR USE OF RECYCLED MATERIALS, SPECIAL PROVISIONS

** LIMIT OF PAYMENT FOR ASPHALT, BITUMINOUS MATERIAL, AND AGGREGATE BASES

NOTE 1:

WHERE UNSUITABLE MATERIAL UNDERLIES THE BIKE TRAIL, SHOULDERS AND/OR EMBANKMENT, AS DETERMINED BY THE ENGINEER, THE SUBGRADE TREATMENT WILL CONSIST OF EXCAVATION OF SUCH UNSUITABLE MATERIAL TO A DEPTH 12" BELOW AGGREGATE BASE COURSE AND PLACEMENT OF 12" OF AGGREGATE SUBGRADE IMPROVEMENT AND A GEOTECHNICAL FABRIC FOR GROUND STABILIZATION.

NOTE 2:

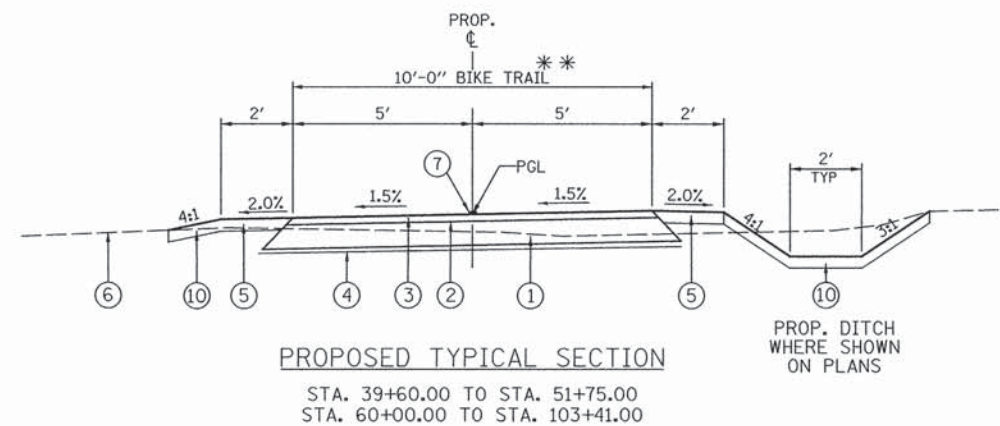
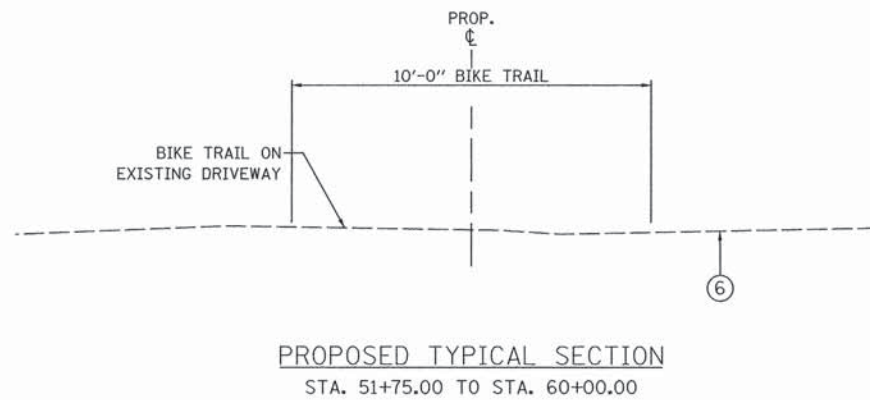
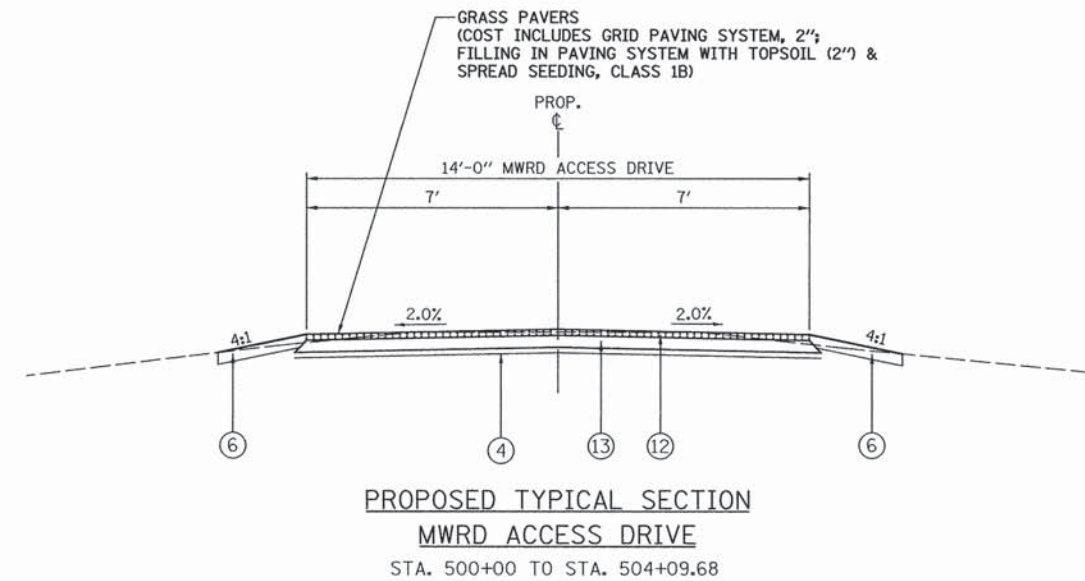
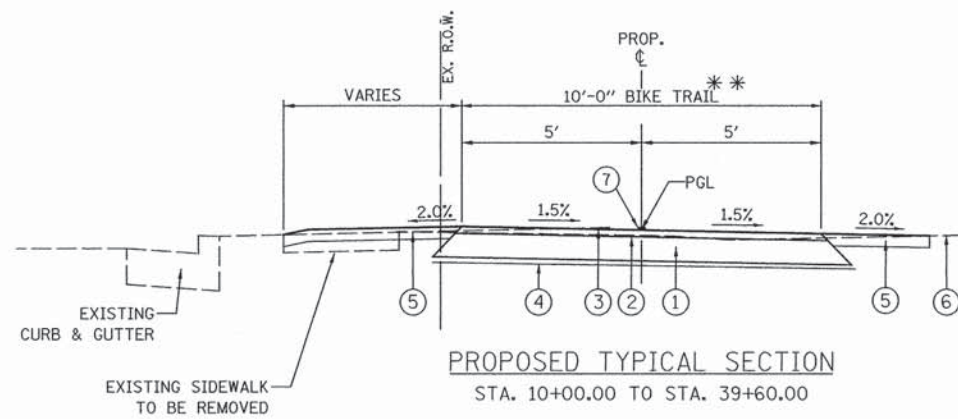
ADDITIONAL FILL MATERIAL TO BE PLACED ABOVE FABRIC IN CUT SECTIONS SHALL NOT BE MEASURED FOR PAYMENT. MATERIAL SHALL BE SUITABLE EMBANKMENT MATERIAL.

NOTE 3:

AT ALL INTERSECTIONS OF BIKE PATH AND ROADWAYS, DEPRESS THE CURB (IF APPLICABLE) AND MAINTAIN EXISTING PAVEMENT ELEVATIONS.

LEGEND:

- ① AGGREGATE BASE COURSE, TYPE B, 6"
- ② BITUMINOUS MATERIALS (PRIME COAT)
- ③ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- ④ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑤ TOPSOIL FURNISH AND PLACE, 6", AND SEEDING, CLASS 1B
- ⑥ EXISTING GROUND
- ⑦ PAINT PAVEMENT MARKING, 4" YELLOW
- ⑧ PCC SIDEWALK 6"
- ⑨ INTERLOCKING CONCRETE PAVERS
- ⑩ TOPSOIL FURNISH AND PLACE, 6", AND SEEDING, CLASS 4A
- ⑪ PORTLAND CEMENT CONCRETE CURB
- ⑫ GRID PAVING SYSTEM, 2" (PAID FOR AS GRASS PAVERS)
- ⑬ BASE COURSE AGGREGATE, 4"



FILE NAME = #FILE#



USER NAME = #USER#	DESIGNED - DDL	REVISED -
PLOT SCALE = #SCALE#	DRAWN - KJB	REVISED -
PLOT DATE = #DATE#	CHECKED - DDL	REVISED -
	DATE - 6/22/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH BIKE TRAIL EXTENSION
PROPOSED TYPICAL SECTIONS

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

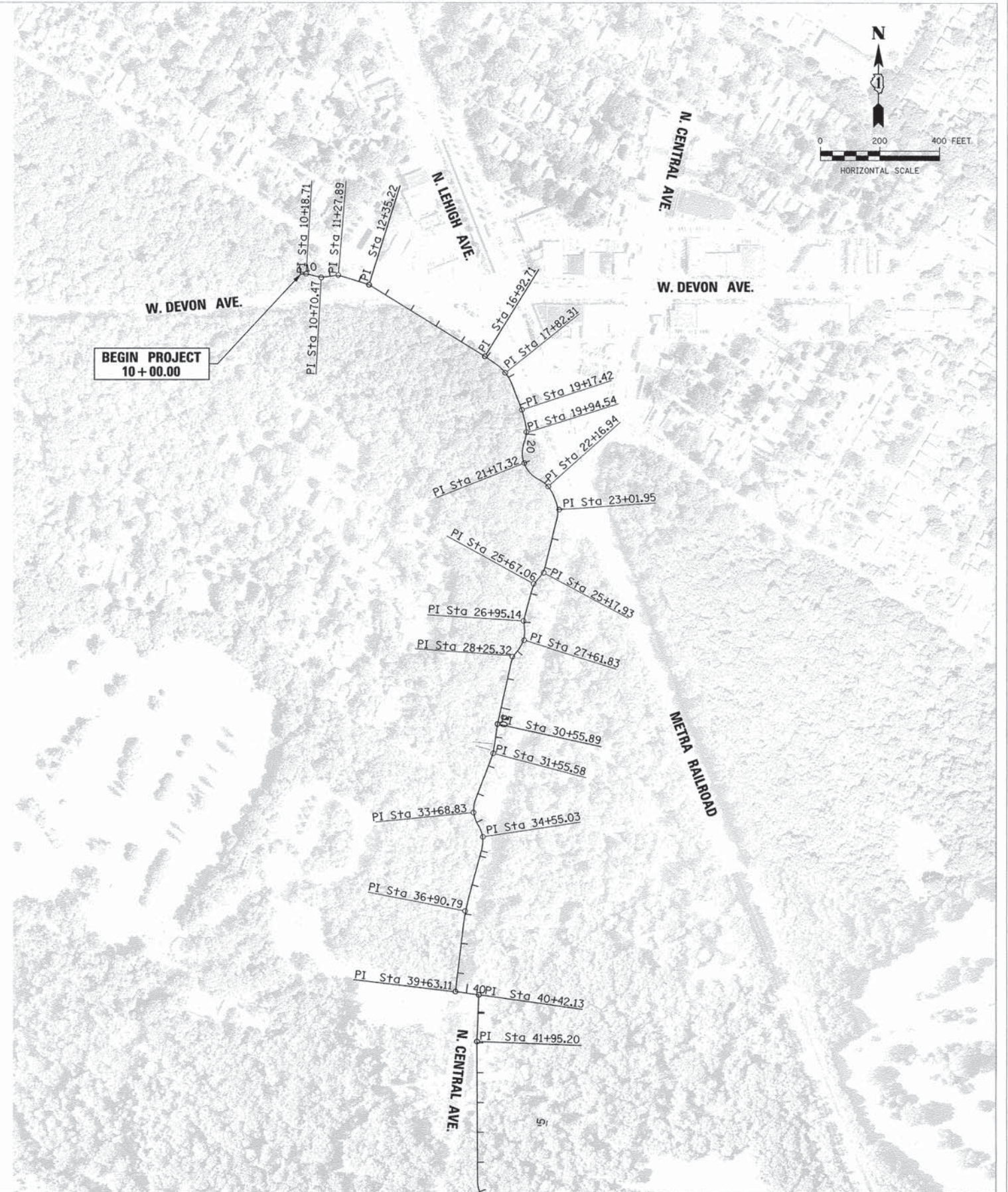
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	11
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 61A86		

PROP. CURVE NBRNPH2-1 PI STA. = 10+18.71 $\Delta = 21^\circ 11' 49''$ (RT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 18.71'$ $L = 37.00'$ $E = 1.74'$ $e = \text{---}$ $T.R. = \text{---}$ $S.E. RUN = \text{---}$ P.C. STA. = 10+00.00 P.T. STA. = 10+37.00	PROP. CURVE NBRNPH2-2 PI STA. = 10+70.47 $\Delta = 22^\circ 01' 45''$ (LT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 19.46'$ $L = 38.45'$ $E = 1.88'$ $e = \text{---}$ $T.R. = \text{---}$ $S.E. RUN = \text{---}$ P.C. STA. = 10+51.01 P.T. STA. = 10+89.46	PROP. CURVE NBRNPH2-3 PI STA. = 11+27.89 $\Delta = 25^\circ 22' 35''$ (RT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 22.51'$ $L = 44.29'$ $E = 2.50'$ $e = \text{---}$ $T.R. = \text{---}$ $S.E. RUN = \text{---}$ P.C. STA. = 11+05.38 P.T. STA. = 11+49.67	PROP. CURVE NBRNPH2-4 PI STA. = 17+82.31 $\Delta = 34^\circ 01' 09''$ (RT) $D = 38^\circ 11' 50''$ $R = 150.00'$ $T = 45.89'$ $L = 89.06'$ $E = 6.86'$ $e = \text{---}$ $T.R. = \text{---}$ $S.E. RUN = \text{---}$ P.C. STA. = 17+36.42 P.T. STA. = 18+25.48	PROP. CURVE NBRNPH2-5 PI STA. = 19+17.42 $\Delta = 6^\circ 58' 33''$ (RT) $D = 28^\circ 38' 52''$ $R = 200.00'$ $T = 12.19'$ $L = 24.35'$ $E = 0.37'$ $e = \text{---}$ $T.R. = \text{---}$ $S.E. RUN = \text{---}$ P.C. STA. = 19+05.23 P.T. STA. = 19+29.58
---	---	---	---	--

PROP. CURVE NBRNPH2-6 PI STA. = 19+94.54 $\Delta = 33^\circ 17' 15''$ (RT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 29.89'$ $L = 58.10'$ $E = 4.37'$ $e = \text{---}$ $T.R. = \text{---}$ $S.E. RUN = \text{---}$ P.C. STA. = 19+64.65 P.T. STA. = 20+22.75	PROP. CURVE NBRNPH2-7 PI STA. = 21+17.32 $\Delta = 80^\circ 38' 20''$ (LT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 84.86'$ $L = 140.74'$ $E = 31.16'$ $e = \text{---}$ $T.R. = \text{---}$ $S.E. RUN = \text{---}$ P.C. STA. = 20+32.46 P.T. STA. = 21+73.20	PROP. CURVE NBRNPH2-8 PI STA. = 22+16.94 $\Delta = 40^\circ 23' 14''$ (RT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 36.78'$ $L = 70.49'$ $E = 6.55'$ $e = \text{---}$ $T.R. = \text{---}$ $S.E. RUN = \text{---}$ P.C. STA. = 21+80.16 P.T. STA. = 22+50.65	PROP. CURVE NBRNPH2-9 PI STA. = 23+01.95 $\Delta = 35^\circ 14' 52''$ (RT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 31.77'$ $L = 61.52'$ $E = 4.92'$ $e = \text{---}$ $T.R. = \text{---}$ $S.E. RUN = \text{---}$ P.C. STA. = 22+70.18 P.T. STA. = 23+31.70	PROP. CURVE NBRNPH2-10 PI STA. = 25+17.93 $\Delta = 28^\circ 53' 54''$ (RT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 25.77'$ $L = 50.44'$ $E = 3.27'$ $e = \text{---}$ $T.R. = \text{---}$ $S.E. RUN = \text{---}$ P.C. STA. = 24+92.17 P.T. STA. = 25+42.60
---	---	---	---	--

PROP. CURVE NBRNPH2-11 PI STA. = 25+67.06 $\Delta = 27^\circ 28' 58''$ (LT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 24.45'$ $L = 47.97'$ $E = 2.95'$ $e = \text{---}$ $T.R. = \text{---}$ $S.E. RUN = \text{---}$ P.C. STA. = 25+42.60 P.T. STA. = 25+90.57	PROP. CURVE NBRNPH2-12 PI STA. = 26+95.14 $\Delta = 23^\circ 02' 29''$ (LT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 20.38'$ $L = 40.21'$ $E = 2.06'$ $e = \text{---}$ $T.R. = \text{---}$ $S.E. RUN = \text{---}$ P.C. STA. = 26+74.76 P.T. STA. = 27+14.97	PROP. CURVE NBRNPH2-13 PI STA. = 27+61.83 $\Delta = 50^\circ 12' 48''$ (RT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 46.86'$ $L = 87.64'$ $E = 10.43'$ $e = \text{---}$ $T.R. = \text{---}$ $S.E. RUN = \text{---}$ P.C. STA. = 27+14.97 P.T. STA. = 28+02.61	PROP. CURVE NBRNPH2-14 PI STA. = 28+25.32 $\Delta = 29^\circ 55' 08''$ (LT) $D = 67^\circ 24' 24''$ $R = 85.00'$ $T = 22.71'$ $L = 44.39'$ $E = 2.98'$ $e = \text{---}$ $T.R. = \text{---}$ $S.E. RUN = \text{---}$ P.C. STA. = 28+02.61 P.T. STA. = 28+47.00	PROP. CURVE NBRNPH2-15 PI STA. = 31+55.58 $\Delta = 12^\circ 26' 30''$ (RT) $D = 38^\circ 11' 50''$ $R = 150.00'$ $T = 16.35'$ $L = 32.57'$ $E = 0.89'$ $e = \text{---}$ $T.R. = \text{---}$ $S.E. RUN = \text{---}$ P.C. STA. = 31+39.23 P.T. STA. = 31+71.81
--	--	---	---	--

PROP. CURVE NBRNPH2-16 PI STA. = 33+68.83 $\Delta = 52^\circ 56' 58''$ (LT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 49.80'$ $L = 92.41'$ $E = 11.72'$ $e = \text{---}$ $T.R. = \text{---}$ $S.E. RUN = \text{---}$ P.C. STA. = 33+19.03 P.T. STA. = 34+11.44	PROP. CURVE NBRNPH2-16A PI STA. = 34+55.03 $\Delta = 47^\circ 06' 25''$ (RT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 43.59'$ $L = 82.22'$ $E = 9.09'$ $e = \text{---}$ $T.R. = \text{---}$ $S.E. RUN = \text{---}$ P.C. STA. = 34+11.44 P.T. STA. = 34+93.66	PROP. CURVE NBRNPH2-17 PI STA. = 36+90.79 $\Delta = 8^\circ 14' 07''$ (LT) $D = 7^\circ 09' 43''$ $R = 800.00'$ $T = 57.59'$ $L = 114.98'$ $E = 2.07'$ $e = \text{---}$ $T.R. = \text{---}$ $S.E. RUN = \text{---}$ P.C. STA. = 36+33.20 P.T. STA. = 37+48.19
---	---	---



FILE NAME = BFILES

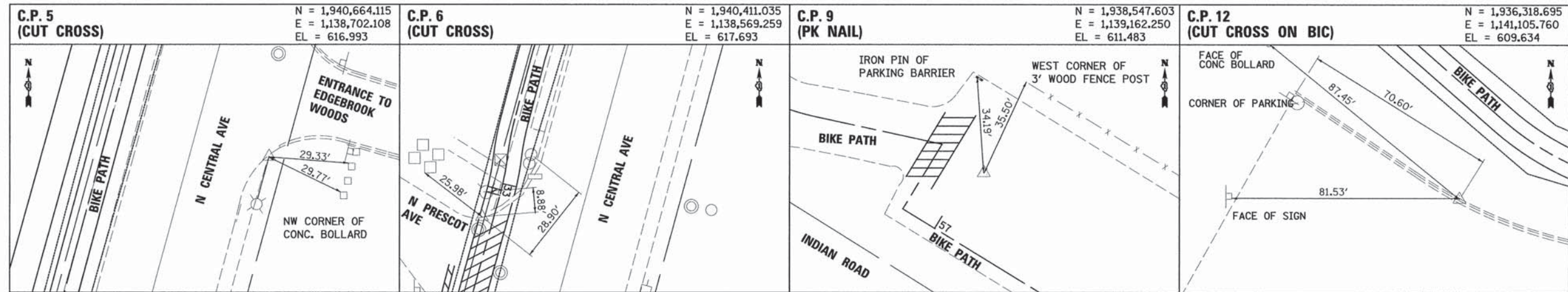
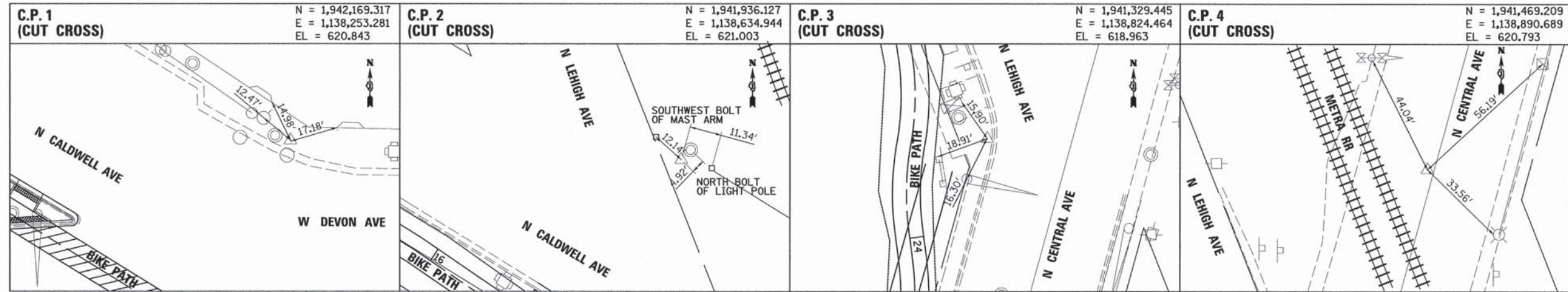


USER NAME = *USER*	DESIGNED = DDL	REVISED =
PLOT SCALE = *SCALE*	DRAWN = KJB	REVISED =
PLOT DATE = *DATE*	CHECKED = DDL	REVISED =
	DATE = 6/22/15	REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH BIKE TRAIL EXTENSION ALIGNMENT, TIES, & BENCHMARKS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	12
CONTRACT NO. 61A86				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

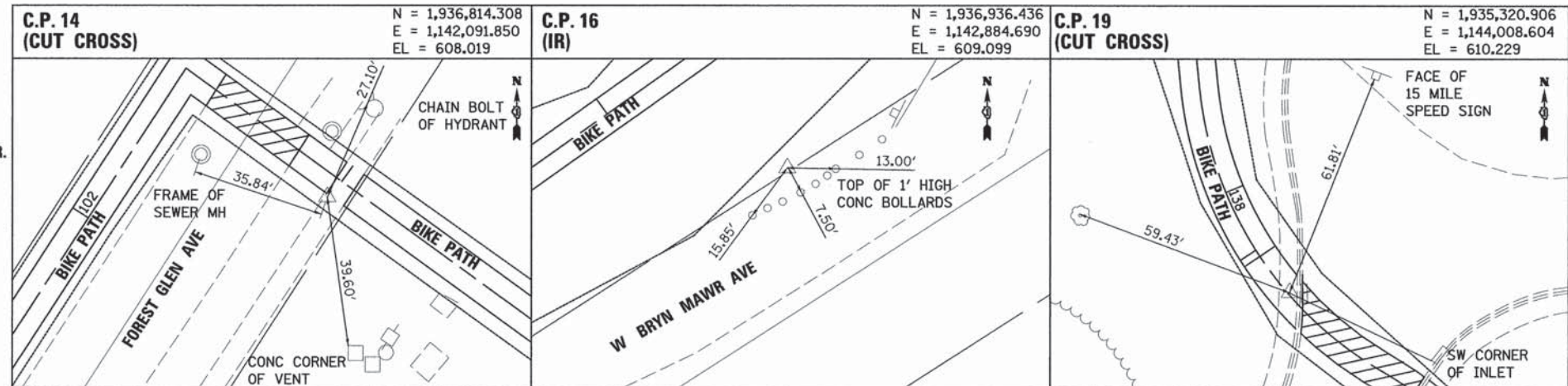


BENCHMARKS

BM #102: TOP OF FIRE HYDRANT CHAIN BOLT, LOCATED AT THE WEST SIDE OF CENTRAL AVE. APPROX. 250' SOUTH OF N. LOUIS AVE. ELEV. 617.45

BM #104: CUT SQUARE AT THE WEST END OF SOUTH ABUTMENT SEAT OF CICERO AVE. BRIDGE OVER NORTH BRANCH CHICAGO RIVER. ELEV. 601.00

ALL ELEVATIONS IN THE PLANS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).



FILE NAME = BFILE9



USER NAME = #USER#	DESIGNED - DDL	REVISED -
PLOT SCALE = #SCALE#	DRAWN - KJB	REVISED -
PLOT DATE = #DATE#	CHECKED - DDL	REVISED -
	DATE - 6/22/15	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

NORTH BRANCH BIKE TRAIL EXTENSION

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	14
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 61A86	

PROP. CURVE 1
 PI STA. = 10+18.71
 $\Delta = 21^\circ 11' 49''$ (RT)
 $D = 57' 17' 45''$
 $R = 100.00'$
 $T = 18.71'$
 $L = 37.00'$
 $E = 1.74'$
 P.C. STA. = 10+00.00
 P.T. STA. = 10+37.00

PROP. CURVE 2
 PI STA. = 10+70.47
 $\Delta = 22^\circ 01' 45''$ (LT)
 $D = 57' 17' 45''$
 $R = 100.00'$
 $T = 19.46'$
 $L = 38.45'$
 $E = 1.88'$
 P.C. STA. = 10+51.01
 P.T. STA. = 10+89.46

PROP. CURVE 3
 PI STA. = 11+27.89
 $\Delta = 25^\circ 22' 35''$ (RT)
 $D = 57' 17' 45''$
 $R = 100.00'$
 $T = 22.51'$
 $L = 44.29'$
 $E = 2.50'$
 P.C. STA. = 11+05.38
 P.T. STA. = 11+49.67

PROP. CURVE 4
 PI STA. = 17+82.31
 $\Delta = 34^\circ 01' 09''$ (RT)
 $D = 38' 11' 50''$
 $R = 150.00'$
 $T = 45.89'$
 $L = 89.06'$
 $E = 6.86'$
 P.C. STA. = 17+36.42
 P.T. STA. = 18+25.48

PROP. CURVE 5
 PI STA. = 19+17.42
 $\Delta = 6^\circ 58' 33''$ (RT)
 $D = 28^\circ 38' 52''$
 $R = 200.00'$
 $T = 12.19'$
 $L = 24.35'$
 $E = 0.37'$
 P.C. STA. = 19+05.23
 P.T. STA. = 19+29.58

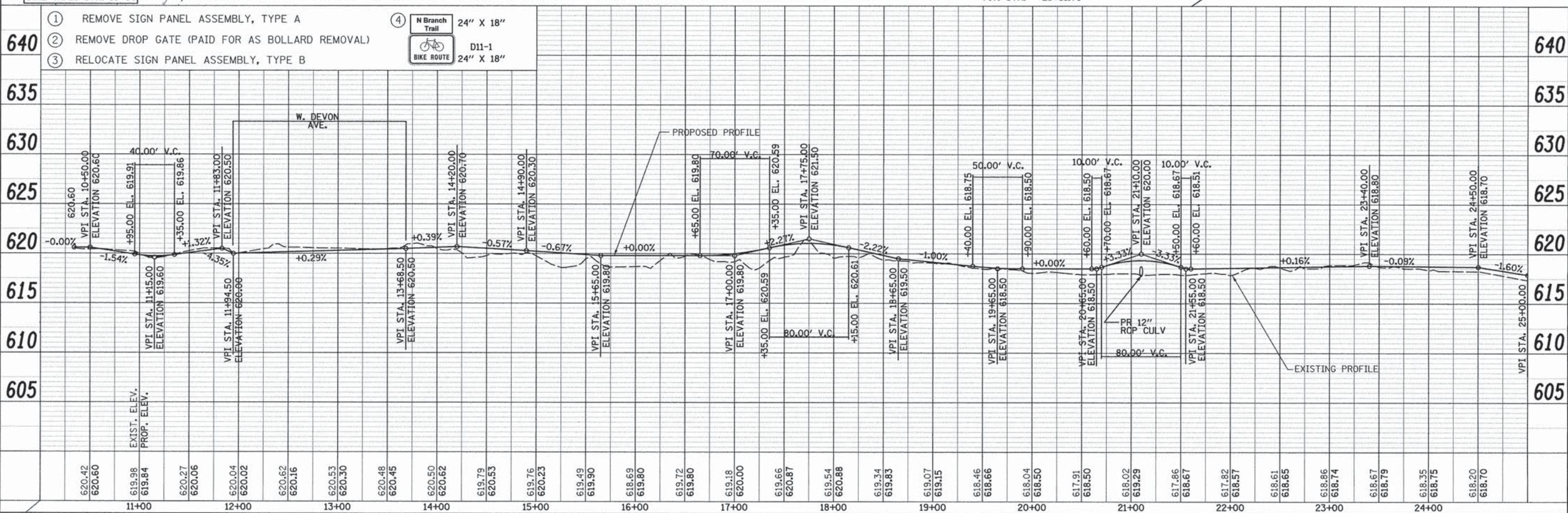
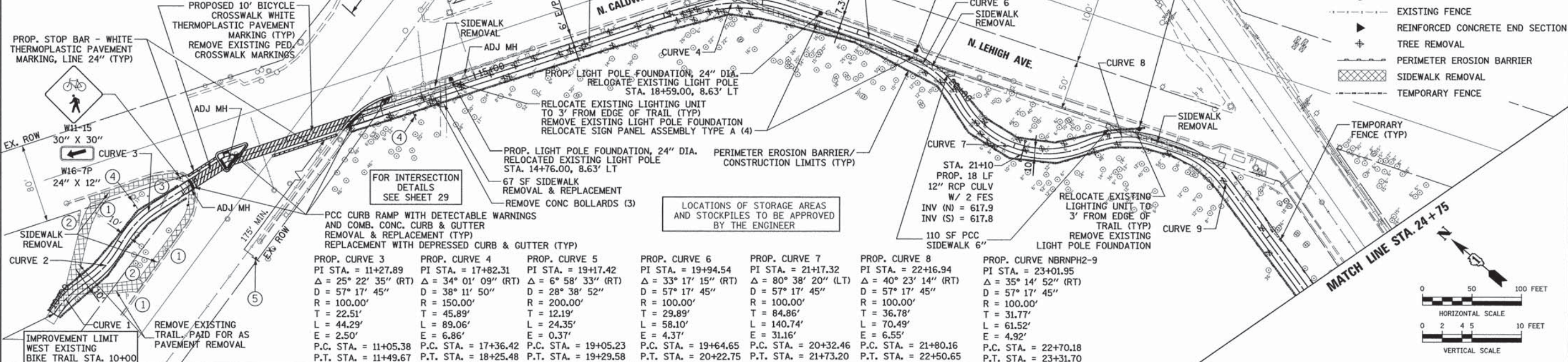
PROP. CURVE 6
 PI STA. = 19+94.54
 $\Delta = 33^\circ 17' 15''$ (RT)
 $D = 57' 17' 45''$
 $R = 100.00'$
 $T = 29.89'$
 $L = 58.10'$
 $E = 4.37'$
 P.C. STA. = 19+64.65
 P.T. STA. = 20+22.75

PROP. CURVE 7
 PI STA. = 21+17.32
 $\Delta = 80^\circ 38' 20''$ (LT)
 $D = 57' 17' 45''$
 $R = 100.00'$
 $T = 12.19'$
 $L = 140.74'$
 $E = 31.16'$
 P.C. STA. = 20+32.46
 P.T. STA. = 21+73.20

PROP. CURVE 8
 PI STA. = 22+16.94
 $\Delta = 40^\circ 23' 14''$ (RT)
 $D = 57' 17' 45''$
 $R = 100.00'$
 $T = 36.78'$
 $L = 70.49'$
 $E = 6.55'$
 P.C. STA. = 21+80.16
 P.T. STA. = 22+50.65

PROP. CURVE 9
 PI STA. = 23+01.95
 $\Delta = 35^\circ 14' 52''$ (RT)
 $D = 57' 17' 45''$
 $R = 100.00'$
 $T = 31.77'$
 $L = 61.52'$
 $E = 4.92'$
 P.C. STA. = 22+70.18
 P.T. STA. = 23+31.70

- LEGEND**
- +— SWALE TIP
 - +— DITCH SUMMIT
 - +— DITCH CHECK
 - +— PROPOSED CULVERT
 - +— EXISTING CULVERT
 - +— EXISTING MANHOLE
 - +— EXISTING FENCE
 - +— REINFORCED CONCRETE END SECTION
 - +— TREE REMOVAL
 - +— PERIMETER EROSION BARRIER
 - +— SIDEWALK REMOVAL
 - +— TEMPORARY FENCE



620.42	620.60	619.98	619.84	620.27	620.06	620.04	620.02	620.62	620.16	620.53	620.30	620.48	620.45	620.50	620.62	619.79	620.53	619.76	620.23	619.49	619.90	618.69	619.80	619.72	619.80	619.18	620.00	619.66	620.87	619.54	620.88	619.34	619.83	619.07	619.15	618.46	618.66	618.04	618.50	617.91	618.50	618.02	619.29	617.86	618.67	617.82	618.57	618.61	618.65	618.86	618.74	618.67	618.79	618.35	618.75	618.20	618.70
--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

URS 200 SOUTH WACKER DRIVE, SUITE 500, CHICAGO, IL 60606, TEL: 312.939.1000

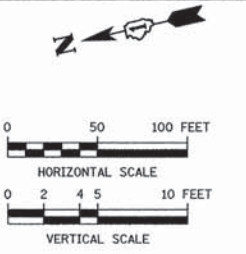
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

NORTH BRANCH BIKE TRAIL EXTENSION PLAN AND PROFILE

SCALE: 1" = 50' DRAWING NO. 1 OF 12 STA. 10+00 TO STA. 24+75

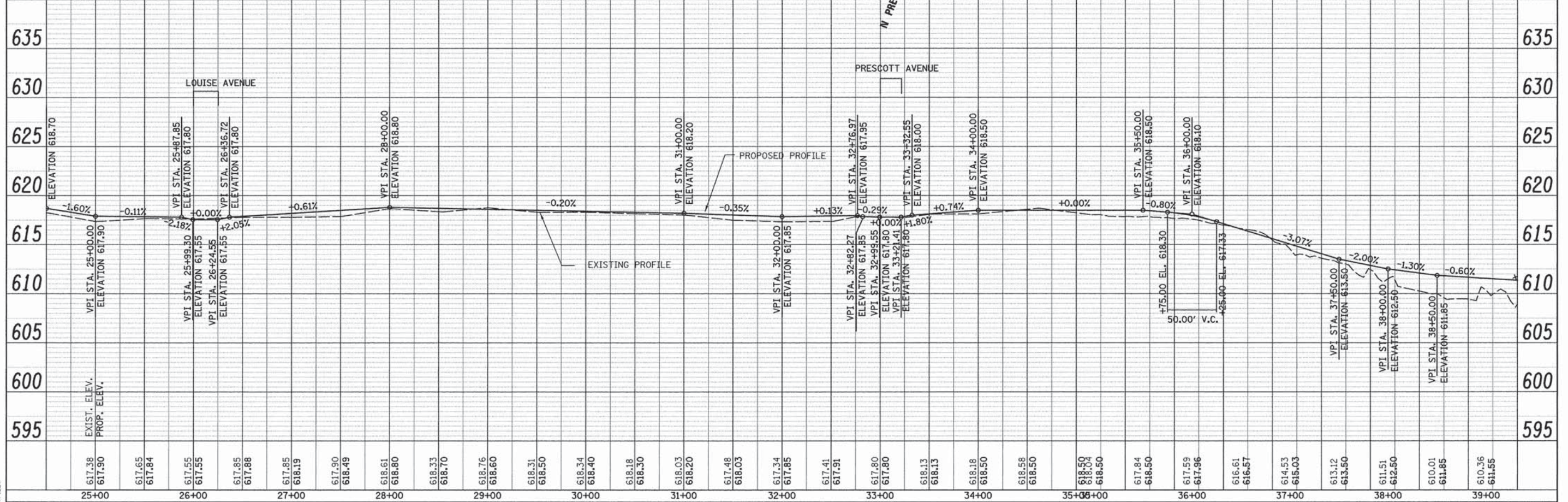
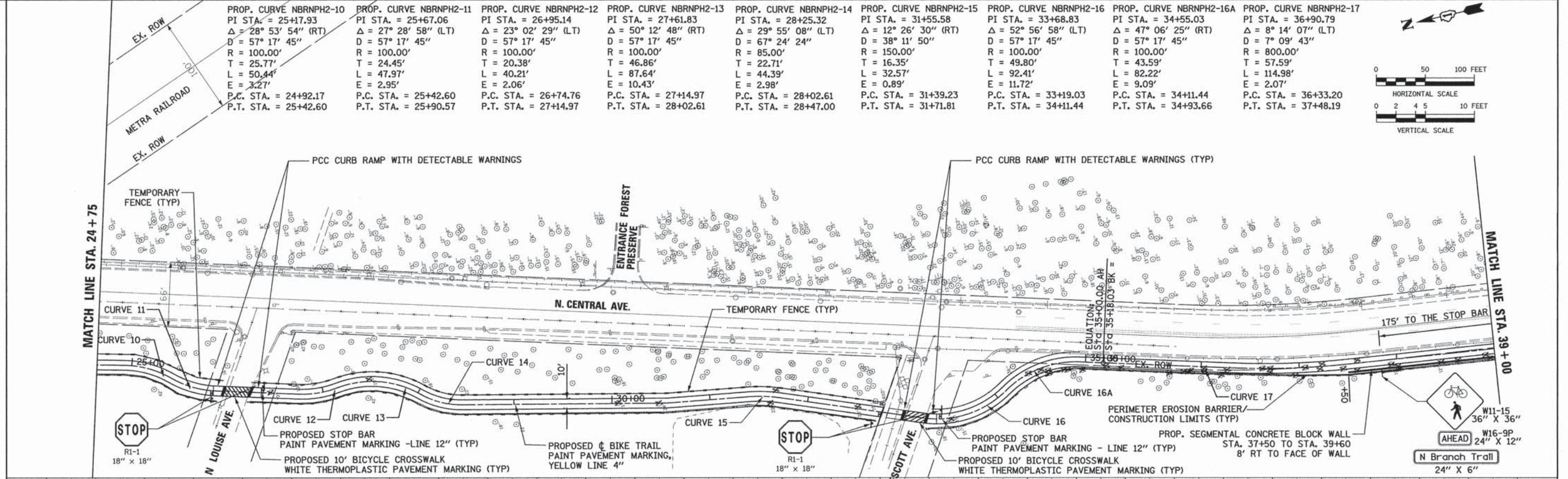
SECTION: 08-F3000-21-BT COUNTY: COOK TOTAL SHEETS: 98 SHEET NO.: 15 CONTRACT NO.: 61A86 ILLINOIS FED. AID PROJECT

PROP. CURVE NBRNPH2-10 PI STA. = 25+17.93 Δ = 28° 53' 54" (RT) D = 57° 17' 45" R = 100.00' T = 25.77' L = 50.44' E = 3.27' P.C. STA. = 24+92.17 P.T. STA. = 25+42.60	PROP. CURVE NBRNPH2-11 PI STA. = 25+67.06 Δ = 27° 28' 58" (LT) D = 57° 17' 45" R = 100.00' T = 24.45' L = 47.97' E = 2.95' P.C. STA. = 25+42.60 P.T. STA. = 25+90.57	PROP. CURVE NBRNPH2-12 PI STA. = 26+95.14 Δ = 23° 02' 29" (LT) D = 57° 17' 45" R = 100.00' T = 20.38' L = 40.21' E = 2.06' P.C. STA. = 26+74.76 P.T. STA. = 27+14.97	PROP. CURVE NBRNPH2-13 PI STA. = 27+61.83 Δ = 50° 12' 48" (RT) D = 57° 17' 45" R = 100.00' T = 46.86' L = 87.64' E = 10.43' P.C. STA. = 27+14.97 P.T. STA. = 28+02.61	PROP. CURVE NBRNPH2-14 PI STA. = 28+25.32 Δ = 29° 55' 08" (LT) D = 67° 24' 24" R = 85.00' T = 22.71' L = 44.39' E = 2.98' P.C. STA. = 28+02.61 P.T. STA. = 28+47.00	PROP. CURVE NBRNPH2-15 PI STA. = 31+55.58 Δ = 12° 26' 30" (RT) D = 38° 11' 50" R = 150.00' T = 16.35' L = 32.57' E = 0.89' P.C. STA. = 31+39.23 P.T. STA. = 31+71.81	PROP. CURVE NBRNPH2-16 PI STA. = 33+68.83 Δ = 52° 56' 58" (LT) D = 57° 17' 45" R = 100.00' T = 49.80' L = 92.41' E = 11.72' P.C. STA. = 33+19.03 P.T. STA. = 34+11.44	PROP. CURVE NBRNPH2-16A PI STA. = 34+55.03 Δ = 47° 06' 25" (RT) D = 57° 17' 45" R = 100.00' T = 43.59' L = 82.22' E = 9.09' P.C. STA. = 34+11.44 P.T. STA. = 34+93.66	PROP. CURVE NBRNPH2-17 PI STA. = 36+90.79 Δ = 8° 14' 07" (LT) D = 7° 09' 43" R = 800.00' T = 57.59' L = 114.98' E = 2.07' P.C. STA. = 36+33.20 P.T. STA. = 37+48.19
---	---	---	--	--	---	--	--	--



PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	NO. OF WAY CHECKED	
	NO. OF STATION CHECKED	
	CADD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	NO. OF WAY CHECKED	
	NO. OF STATION CHECKED	
	STRUCTURE NOTATIONS	
	NO.	



USER NAME * USER*	DESIGNED -	REVISED -
PLOT SCALE * SCALE*	DRAWN -	REVISED -
PLOT DATE * DATE*	CHECKED -	REVISED -
	DATE - 6/22/15	REVISED -

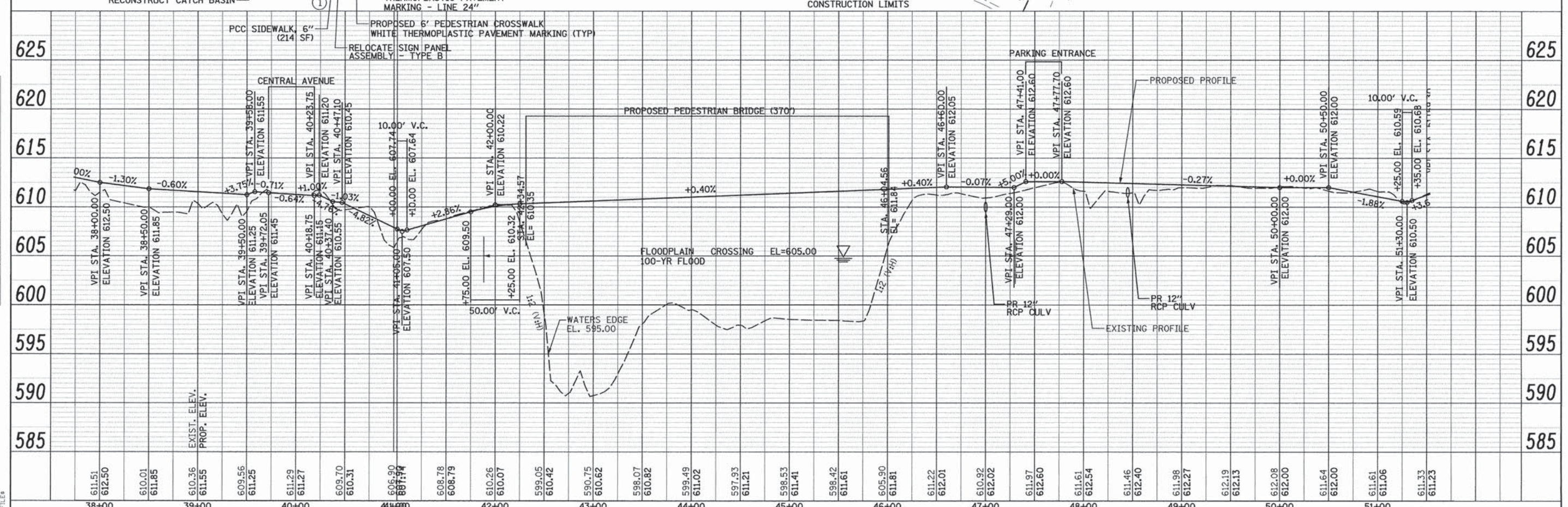
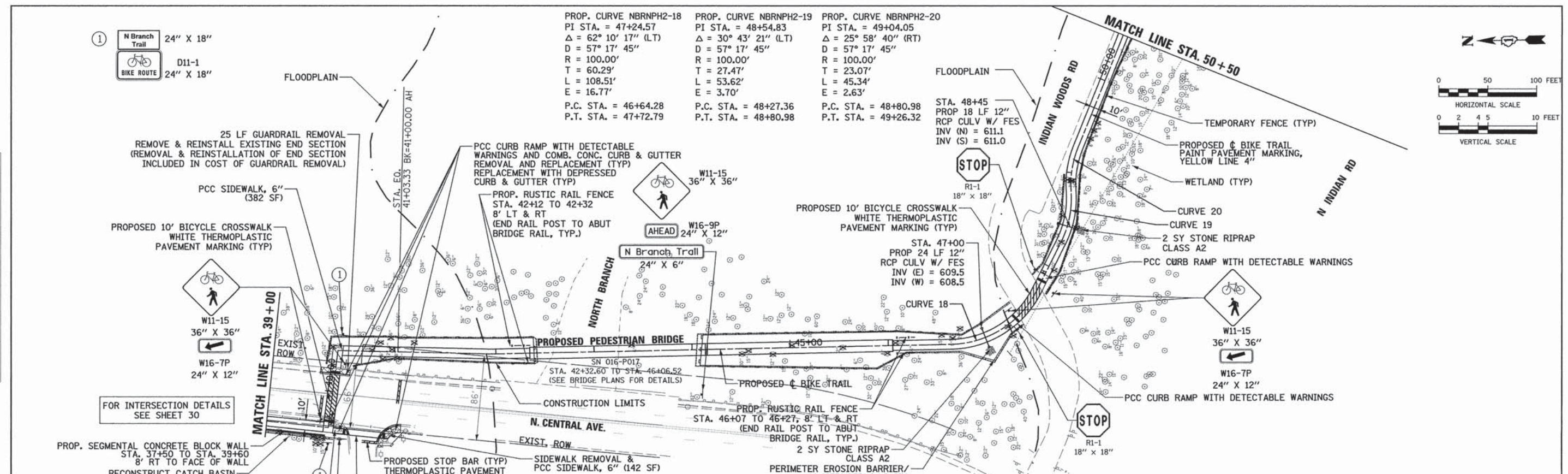
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

NORTH BRANCH BIKE TRAIL EXTENSION PLAN AND PROFILE		
SCALE: 1" = 50'	DRAWING NO. 2 OF 12	STA. 24+75 TO STA. 39+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	12 COBK	98	16
CONTRACT NO. 61A86				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
PLAN	
NO. OF SHEETS	
NO. OF THIS SHEET	
DATE	
BY	
PROFILE	
NO. OF SHEETS	
NO. OF THIS SHEET	
DATE	
BY	

DATE	
BY	
PROFILE	
NO. OF SHEETS	
NO. OF THIS SHEET	
DATE	
BY	



611.51 612.50	610.01 611.85	610.36 611.55	609.56 611.25	611.29 611.27	609.70 610.31	606.90 607.94	608.78 608.79	610.26 610.07	599.05 610.42	590.75 610.82	598.07 610.82	599.49 611.02	597.93 611.21	598.53 611.41	598.42 611.61	605.90 611.81	611.22 612.01	610.92 612.02	611.97 612.60	611.61 612.54	611.46 612.40	611.98 612.27	612.19 612.13	612.08 612.00	611.64 612.00	611.61 611.06	611.33 611.23	
38+00	39+00	40+00	41+00	42+00	43+00	44+00	45+00	46+00	47+00	48+00	49+00	50+00	51+00															

100 SOUTH WALKER DRIVE, SUITE 500
CHICAGO, IL 60606 TEL: 312.231.2000

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

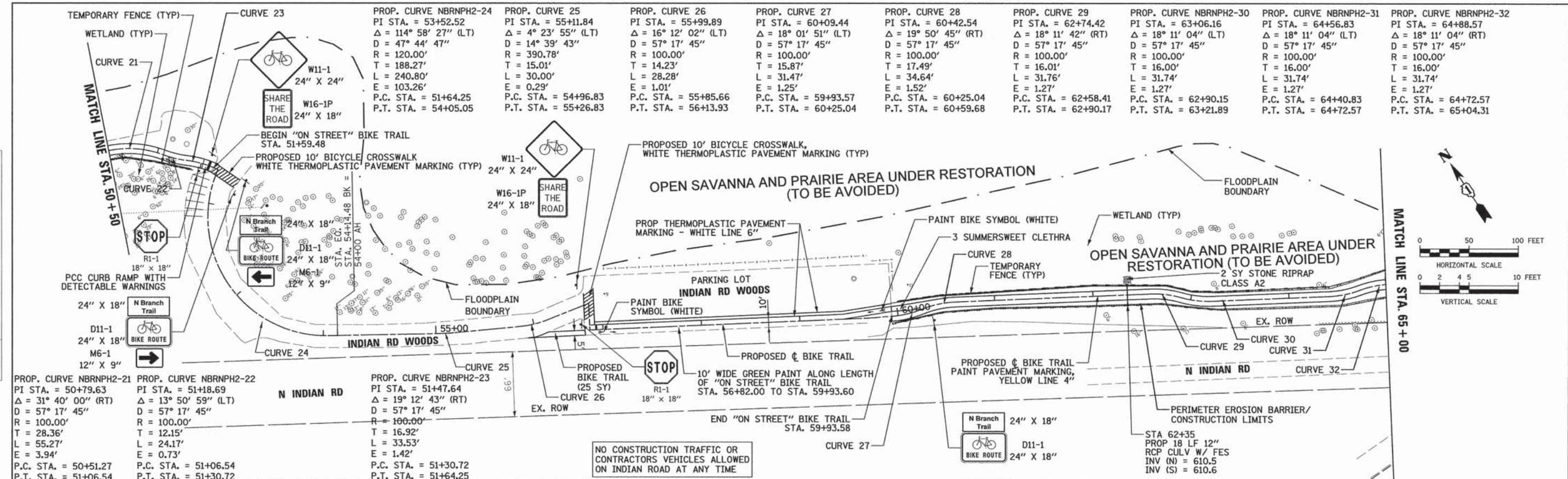
NORTH BRANCH BIKE TRAIL EXTENSION
PLAN AND PROFILE

USER NAME: #USER#	DESIGNED: -	REVISIONS:	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE: #SCALE#	DRAWN: -	REVISIONS:	08-F3000-21-BT	COOK	98	17	
PLOT DATE: #DATE#	CHECKED: -	REVISIONS:					
	DATE: 6/22/15	REVISIONS:					

SCALE: 1" = 50' DRAWING NO. 3 OF 12 STA. 39+00 TO STA. 51+00 CONTRACT NO. 61A86 ILLINOIS FED. AID PROJECT

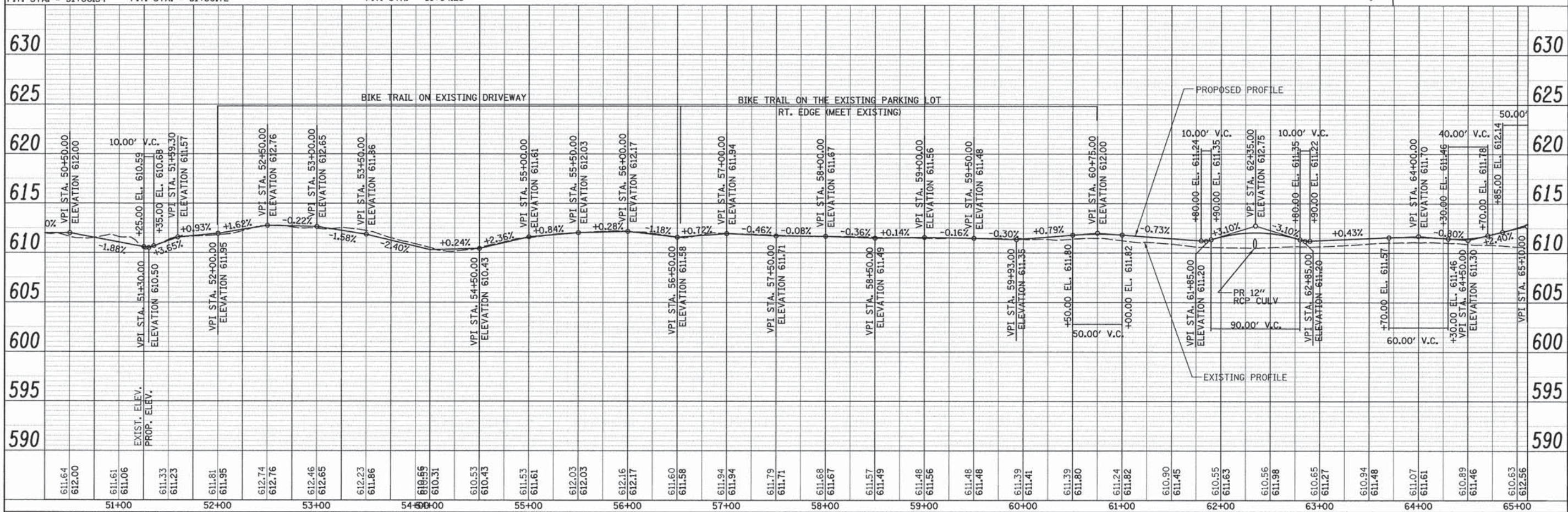
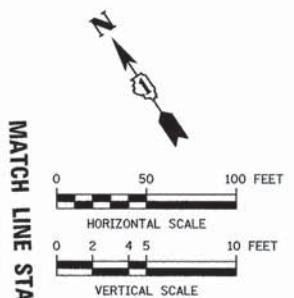
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
DATE	
BY	
DATE	
BY	
DATE	

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
DATE	
BY	
DATE	
BY	
DATE	



PROP. CURVE NBRNPH2-21 PI STA. = 50+79.63 $\Delta = 31^\circ 40' 00''$ (RT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 28.36'$ $L = 55.27'$ $E = 3.94'$ P.C. STA. = 50+51.27 P.T. STA. = 51+06.54	PROP. CURVE NBRNPH2-22 PI STA. = 51+18.69 $\Delta = 13^\circ 50' 59''$ (LT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 12.15'$ $L = 24.17'$ $E = 0.73'$ P.C. STA. = 51+06.54 P.T. STA. = 51+30.72	PROP. CURVE NBRNPH2-23 PI STA. = 51+47.64 $\Delta = 19^\circ 12' 43''$ (RT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 16.92'$ $L = 33.53'$ $E = 1.42'$ P.C. STA. = 51+30.72 P.T. STA. = 51+64.25
--	--	--

PROP. CURVE NBRNPH2-24 PI STA. = 53+52.52 $\Delta = 114^\circ 58' 27''$ (LT) $D = 47^\circ 44' 47''$ $R = 120.00'$ $T = 188.27'$ $L = 240.80'$ $E = 103.26'$ P.C. STA. = 51+64.25 P.T. STA. = 54+05.05	PROP. CURVE 25 PI STA. = 55+11.84 $\Delta = 4^\circ 23' 55''$ (LT) $D = 14^\circ 39' 43''$ $R = 390.78'$ $T = 15.01'$ $L = 30.00'$ $E = 0.29'$ P.C. STA. = 54+96.83 P.T. STA. = 55+26.83	PROP. CURVE 26 PI STA. = 55+99.89 $\Delta = 16^\circ 12' 02''$ (LT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 14.23'$ $L = 28.28'$ $E = 1.01'$ P.C. STA. = 55+85.66 P.T. STA. = 56+13.93	PROP. CURVE 27 PI STA. = 60+09.44 $\Delta = 18^\circ 01' 51''$ (LT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 15.87'$ $L = 31.47'$ $E = 1.25'$ P.C. STA. = 59+93.57 P.T. STA. = 60+25.04	PROP. CURVE 28 PI STA. = 60+42.54 $\Delta = 19^\circ 50' 45''$ (RT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 17.49'$ $L = 34.64'$ $E = 1.52'$ P.C. STA. = 60+25.04 P.T. STA. = 60+59.68	PROP. CURVE 29 PI STA. = 62+74.42 $\Delta = 18^\circ 11' 42''$ (RT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 16.01'$ $L = 31.74'$ $E = 1.27'$ P.C. STA. = 62+58.41 P.T. STA. = 62+90.17	PROP. CURVE NBRNPH2-30 PI STA. = 63+06.16 $\Delta = 18^\circ 11' 04''$ (LT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 16.00'$ $L = 31.74'$ $E = 1.27'$ P.C. STA. = 62+90.15 P.T. STA. = 63+21.89	PROP. CURVE NBRNPH2-31 PI STA. = 64+56.83 $\Delta = 18^\circ 11' 04''$ (LT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 16.00'$ $L = 31.74'$ $E = 1.27'$ P.C. STA. = 64+40.83 P.T. STA. = 64+72.57	PROP. CURVE NBRNPH2-32 PI STA. = 64+88.57 $\Delta = 18^\circ 11' 04''$ (RT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 16.00'$ $L = 31.74'$ $E = 1.27'$ P.C. STA. = 64+72.57 P.T. STA. = 65+04.31
---	---	--	--	--	--	--	--	--



611.64 612.00 611.61 611.06 611.33 611.23 611.81 611.95 612.74 612.76 612.46 612.65 612.23 611.86 610.86 610.31 610.53 610.43 611.53 611.61 612.03 612.03 612.16 612.17 611.60 611.58 611.94 611.94 611.79 611.71 611.68 611.67 611.57 611.49 611.48 611.56 611.48 611.48 611.39 611.41 611.39 611.80 611.24 611.82 610.90 611.45 610.55 611.63 610.56 611.98 610.65 611.27 610.94 611.48 611.07 611.61 610.89 611.46 610.63 612.56	51+00 52+00 53+00 54+00 55+00 56+00 57+00 58+00 59+00 60+00 61+00 62+00 63+00 64+00 65+00
--	---



USER NAME = #USER#
DESIGNED -
DRAWN -
CHECKED -
DATE - 6/22/15

REVISIONS
NO.
DESCRIPTION
DATE
BY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

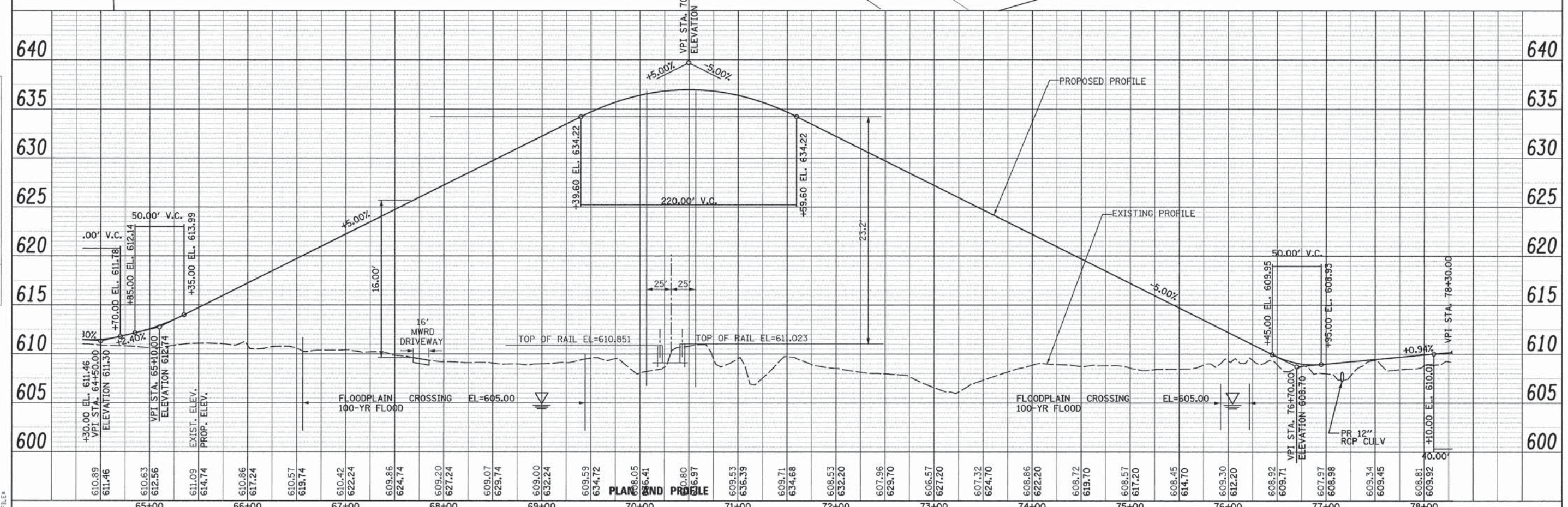
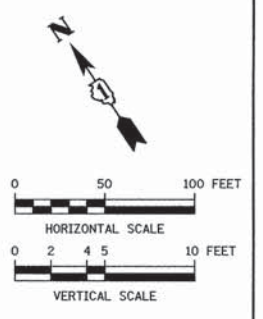
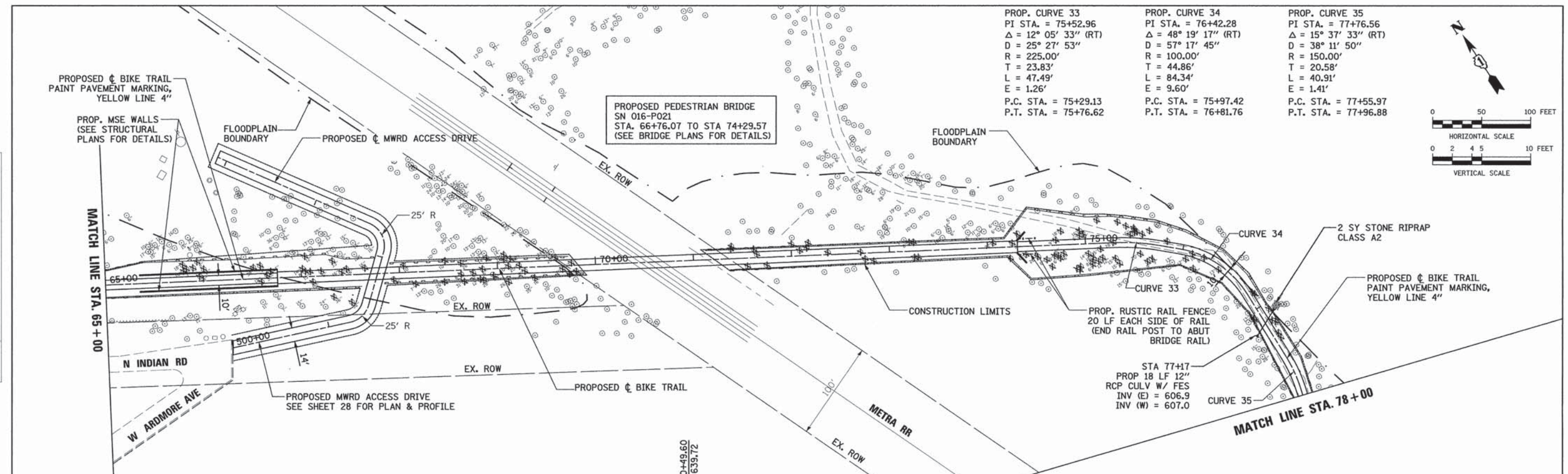
NORTH BRANCH BIKE TRAIL EXTENSION
PLAN AND PROFILE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	18
			CONTRACT NO. 61A86	
ILLINOIS FED. AID PROJECT				

SCALE: 1"= 50'
 DRAWING NO. 4 OF 12
 STA. 51+00 TO STA. 65+00

DATE	
BY	
PLAN	SURVEYED
	ALIGNED
	CHECKED
	BY
	NO. OF RAY CHECKED
	NO.
	DATE

DATE	
BY	
PROFILE	SURVEYED
	DESIGNED
	CHECKED
	BY
	NO. OF RAY CHECKED
	NO.
	DATE



610.89	611.46	610.63	612.56	611.09	614.74	610.96	617.24	610.57	619.74	610.42	622.24	609.86	624.74	609.20	627.24	609.07	629.74	609.00	632.24	609.59	634.72	608.05	636.41	608.00	636.97	609.53	636.39	609.71	634.68	608.53	632.20	607.96	629.70	606.57	627.20	607.32	624.70	608.86	622.20	608.72	619.70	608.57	617.20	608.45	614.70	609.30	612.20	608.92	609.71	607.97	608.98	609.34	609.45	608.81	609.92	40.00'
65+00		66+00		67+00		68+00		69+00		70+00		71+00		72+00		73+00		74+00		75+00		76+00		77+00		78+00																														



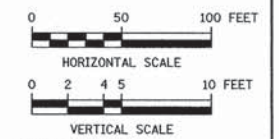
USER NAME = #USER#	DESIGNED -	REVISED -
PLOT SCALE = #SCALE#	DRAWN -	REVISED -
PLOT DATE = #DATE#	CHECKED -	REVISED -
	DATE - 6/22/15	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

NORTH BRANCH BIKE TRAIL EXTENSION PLAN AND PROFILE		
SCALE: 1" = 50'	DRAWING NO. 5 OF 12	STA. 65+00 TO STA. 78+00

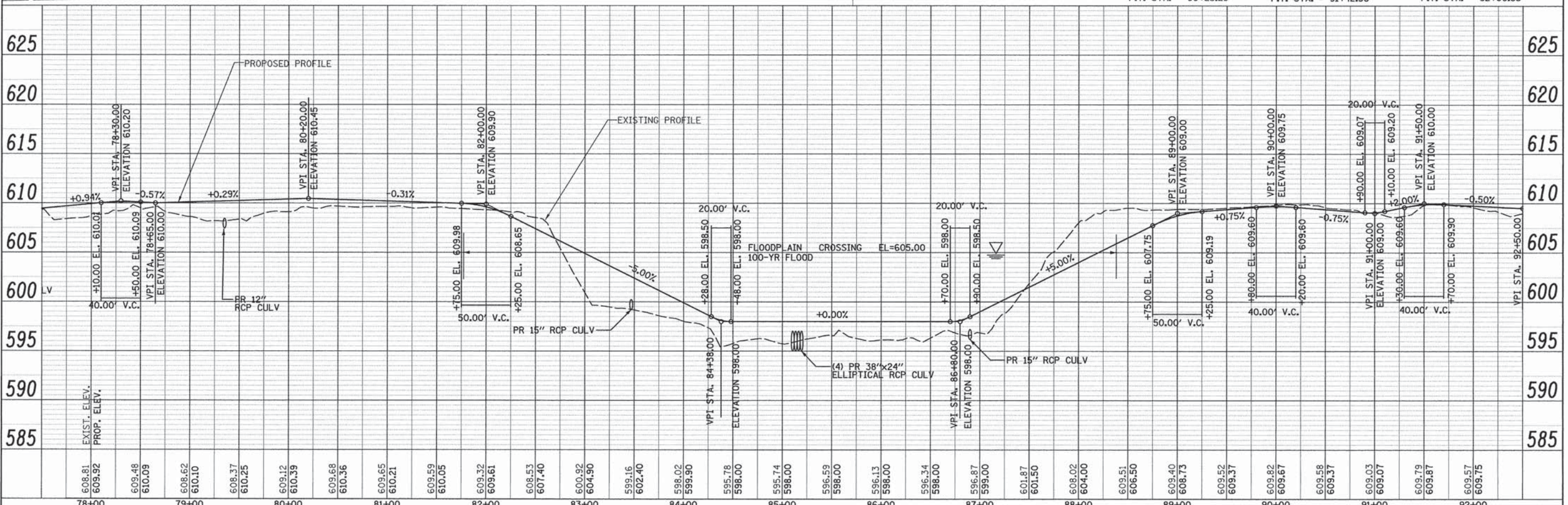
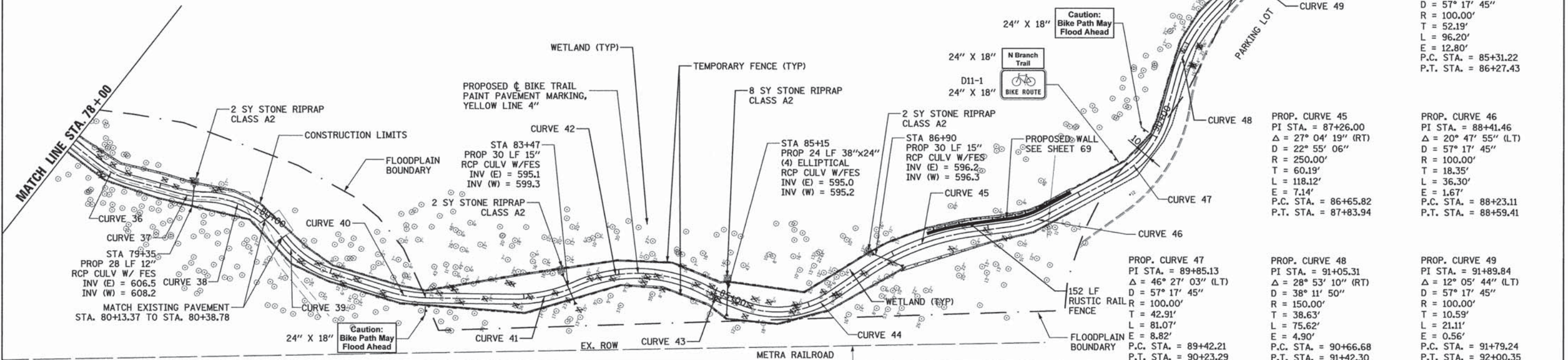
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	19
CONTRACT NO. 61A86			ILLINOIS FED. AID PROJECT	

PROP. CURVE 36 PI STA. = 78+50.53 $\Delta = 22^\circ 36' 15''$ (LT) $D = 57' 17' 45''$ $R = 100.00'$ $T = 19.99'$ $L = 39.45'$ $E = 1.98'$ P.C. STA. = 78+30.54 P.T. STA. = 78+69.99	PROP. CURVE 37 PI STA. = 79+32.60 $\Delta = 14^\circ 36' 40''$ (LT) $D = 57' 17' 45''$ $R = 100.00'$ $T = 12.82'$ $L = 25.50'$ $E = 0.82'$ P.C. STA. = 79+19.78 P.T. STA. = 79+45.28	PROP. CURVE 38 PI STA. = 79+95.40 $\Delta = 53^\circ 14' 30''$ (RT) $D = 57' 17' 45''$ $R = 100.00'$ $T = 50.12'$ $L = 92.92'$ $E = 11.86'$ P.C. STA. = 79+45.28 P.T. STA. = 80+38.20	PROP. CURVE 39 PI STA. = 80+71.11 $\Delta = 36^\circ 25' 57''$ (LT) $D = 57' 17' 45''$ $R = 100.00'$ $T = 22.33'$ $L = 63.59'$ $E = 5.28'$ P.C. STA. = 80+38.20 P.T. STA. = 81+01.79	PROP. CURVE 40 PI STA. = 81+82.02 $\Delta = 16^\circ 55' 52''$ (LT) $D = 38' 11' 50''$ $R = 150.00'$ $T = 22.33'$ $L = 44.33'$ $E = 1.65'$ P.C. STA. = 81+59.69 P.T. STA. = 82+04.02	PROP. CURVE 41 PI STA. = 83+22.40 $\Delta = 24^\circ 54' 57''$ (LT) $D = 38' 11' 50''$ $R = 150.00'$ $T = 33.14'$ $L = 65.23'$ $E = 3.62'$ P.C. STA. = 82+89.26 P.T. STA. = 83+54.49	PROP. CURVE 42 PI STA. = 84+29.09 $\Delta = 52^\circ 53' 12''$ (RT) $D = 38' 11' 50''$ $R = 150.00'$ $T = 74.60'$ $L = 138.46'$ $E = 17.53'$ P.C. STA. = 83+54.49 P.T. STA. = 84+92.95	PROP. CURVE 43 PI STA. = 85+00.12 $\Delta = 8^\circ 12' 09''$ (LT) $D = 57' 17' 45''$ $R = 100.00'$ $T = 7.17'$ $L = 14.32'$ $E = 0.26'$ P.C. STA. = 84+92.95 P.T. STA. = 85+07.26
--	--	---	--	--	--	--	--



PROP. CURVE 44 PI STA. = 85+83.41 $\Delta = 55^\circ 07' 17''$ (LT) $D = 57' 17' 45''$ $R = 100.00'$ $T = 52.19'$ $L = 96.20'$ $E = 12.80'$ P.C. STA. = 85+31.22 P.T. STA. = 86+27.43	PROP. CURVE 45 PI STA. = 87+26.00 $\Delta = 27^\circ 04' 19''$ (RT) $D = 22^\circ 55' 06''$ $R = 250.00'$ $T = 60.19'$ $L = 118.12'$ $E = 7.14'$ P.C. STA. = 86+65.82 P.T. STA. = 87+83.94	PROP. CURVE 46 PI STA. = 88+41.46 $\Delta = 20^\circ 47' 55''$ (LT) $D = 57' 17' 45''$ $R = 100.00'$ $T = 18.35'$ $L = 36.30'$ $E = 1.67'$ P.C. STA. = 88+23.11 P.T. STA. = 88+59.41
---	--	--

PROP. CURVE 47 PI STA. = 89+85.13 $\Delta = 46^\circ 27' 03''$ (LT) $D = 57' 17' 45''$ $R = 100.00'$ $T = 42.91'$ $L = 81.07'$ $E = 8.82'$ P.C. STA. = 89+42.21 P.T. STA. = 90+23.29	PROP. CURVE 48 PI STA. = 91+05.31 $\Delta = 28^\circ 53' 10''$ (RT) $D = 38' 11' 50''$ $R = 150.00'$ $T = 10.59'$ $L = 75.62'$ $E = 4.90'$ P.C. STA. = 90+66.68 P.T. STA. = 91+42.30	PROP. CURVE 49 PI STA. = 91+89.84 $\Delta = 12^\circ 05' 44''$ (LT) $D = 57' 17' 45''$ $R = 100.00'$ $T = 10.59'$ $L = 21.11'$ $E = 0.56'$ P.C. STA. = 91+79.24 P.T. STA. = 92+00.35
--	--	--



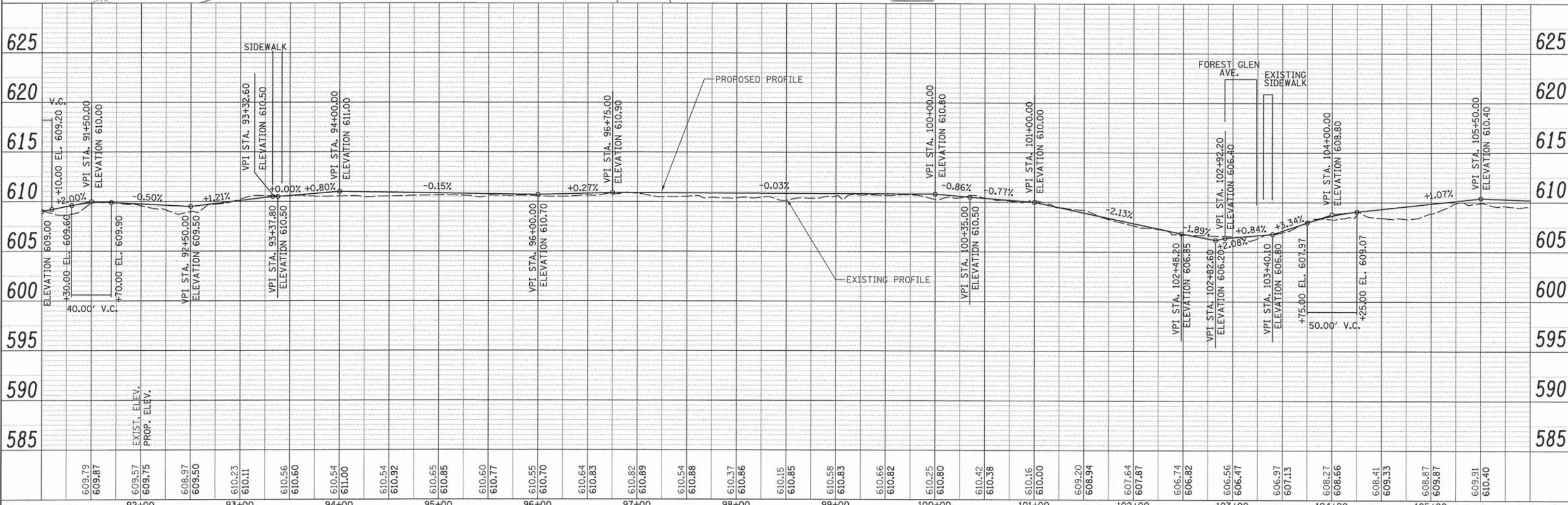
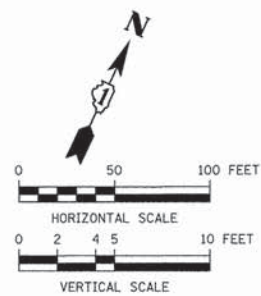
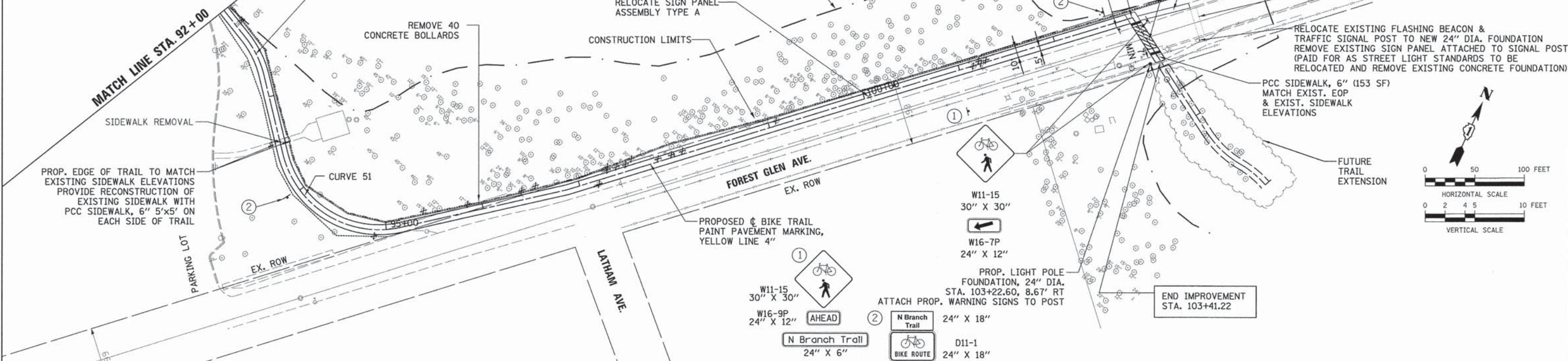
URS 100 SOUTH WACKER DRIVE, SUITE 500 DECAIR, IL 60008	USER NAME = #USER# DESIGNED - DRAWN - CHECKED - DATE = 6/22/15	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH BRANCH BIKE TRAIL EXTENSION PLAN AND PROFILE SCALE: 1"= 50' DRAWING NO. 6 OF 12 STA. 78+00 TO STA. 92+00	F.A.U. R.T.E. SECTION 08-F3000-21-BT COUNTY COOK TOTAL SHEETS 98 SHEET NO. 20 CONTRACT NO. 61A86 ILLINOIS FED. AID PROJECT
---	--	--	---	--	--

PLAN	DATE	BY
SURVEYED		
ALIGNED		
CHECKED		
NOTE BOOK		
NO.		
ADD FILE NAME		

PROFILE	DATE	BY
SURVEYED		
ALIGNED		
CHECKED		
NOTE BOOK		
NO.		
STRUCTURE NOTATIONS CHYD		

PROP. CURVE 50
 PI STA. = 92+56.60
 $\Delta = 25^\circ 00' 03''$ (RT)
 $D = 57^\circ 17' 45''$
 $R = 100.00'$
 $T = 22.17'$
 $L = 43.63'$
 $E = 2.43'$
 P.C. STA. = 92+34.43
 P.T. STA. = 92+78.06

PROP. CURVE 51
 PI STA. = 94+58.19
 $\Delta = 89^\circ 14' 40''$ (LT)
 $D = 57^\circ 17' 45''$
 $R = 100.00'$
 $T = 98.69'$
 $L = 155.76'$
 $E = 40.50'$
 P.C. STA. = 93+59.50
 P.T. STA. = 95+15.26



PLAN	FORWARDED	DATE
NOTE BOOK	PLOTTED	
NO.	CHECKED	
	FILE NAME	

PROFILE	FORWARDED	DATE
NOTE BOOK	PLOTTED	
NO.	CHECKED	
	FILE NAME	

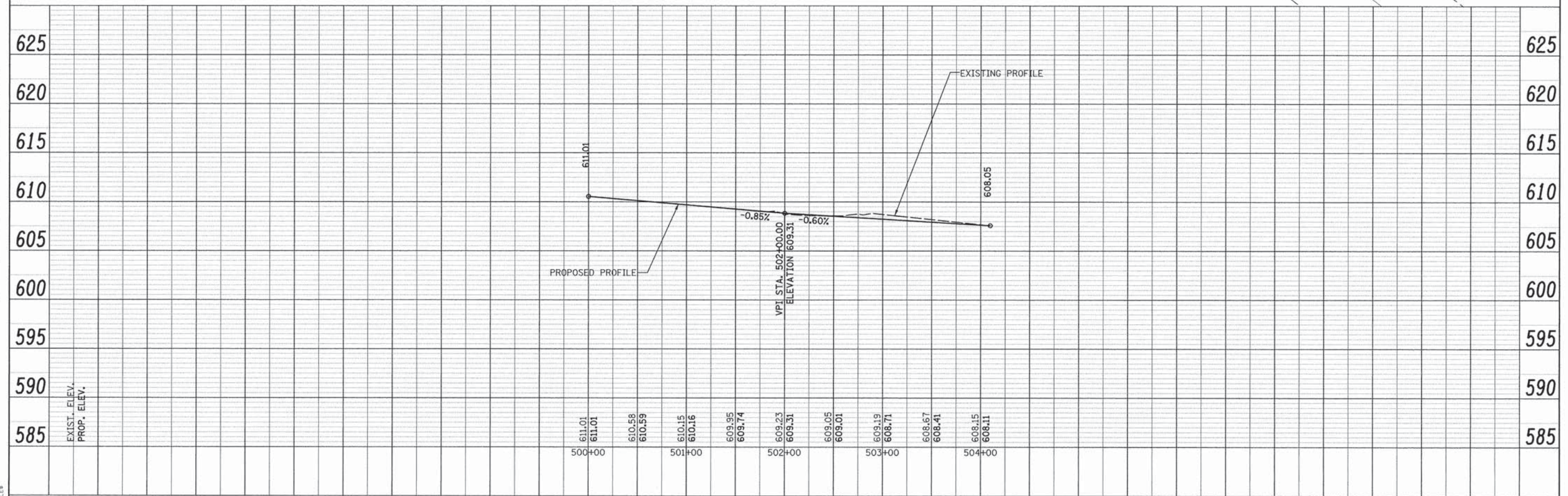
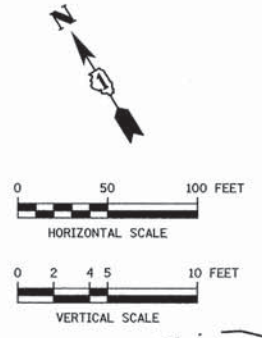
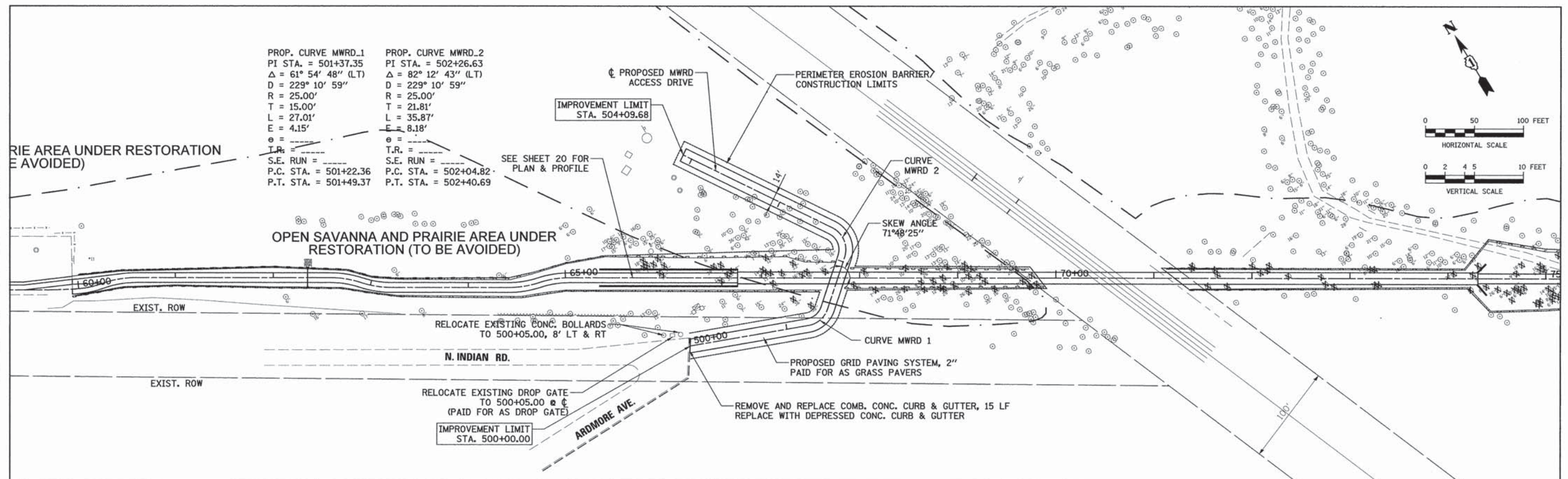
<p>100 SOUTH WACKER DRIVE, SUITE 500 CHICAGO, IL 60606 (312) 938-1000</p>	USER NAME = #USER#	DESIGNED -	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p align="center">NORTH BRANCH BIKE TRAIL EXTENSION PLAN AND PROFILE</p> <p>SCALE: 1"= 50' DRAWING NO. 7 OF 12 STA. 92+00 TO STA. 105+00</p>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -		08-F3000-21-BT	COOK	98	21	
	PLOT DATE = #DATE#	DATE - 6/22/15	REVISED -			CONTRACT NO. 61A86		ILLINOIS FED. AID PROJECT	

DATE: _____ BY: _____
 REVISIONS: _____
 PLAN: _____
 CHECKED: _____
 DATE: _____

DATE: _____ BY: _____
 REVISIONS: _____
 PROFILE: _____
 CHECKED: _____
 DATE: _____

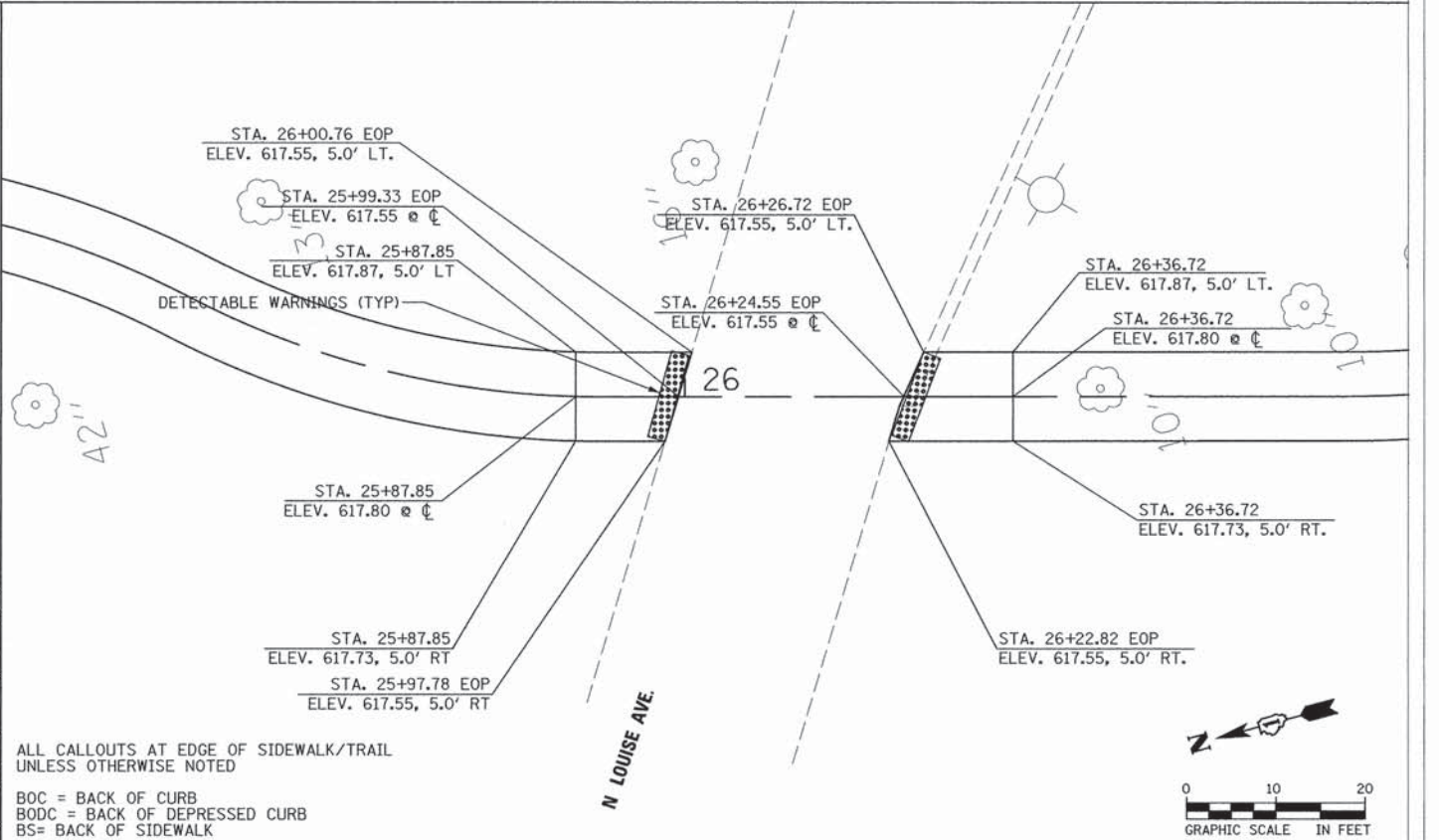
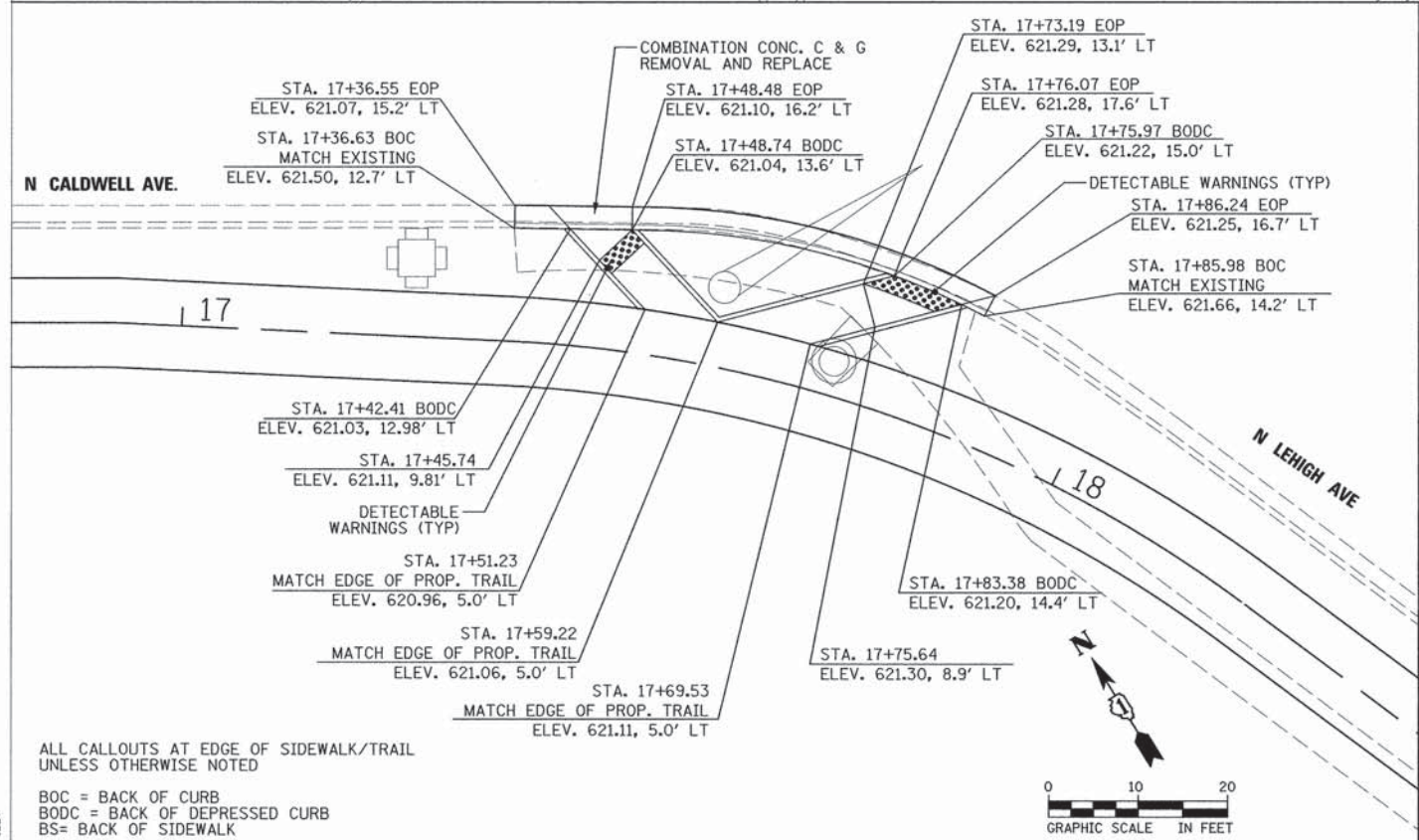
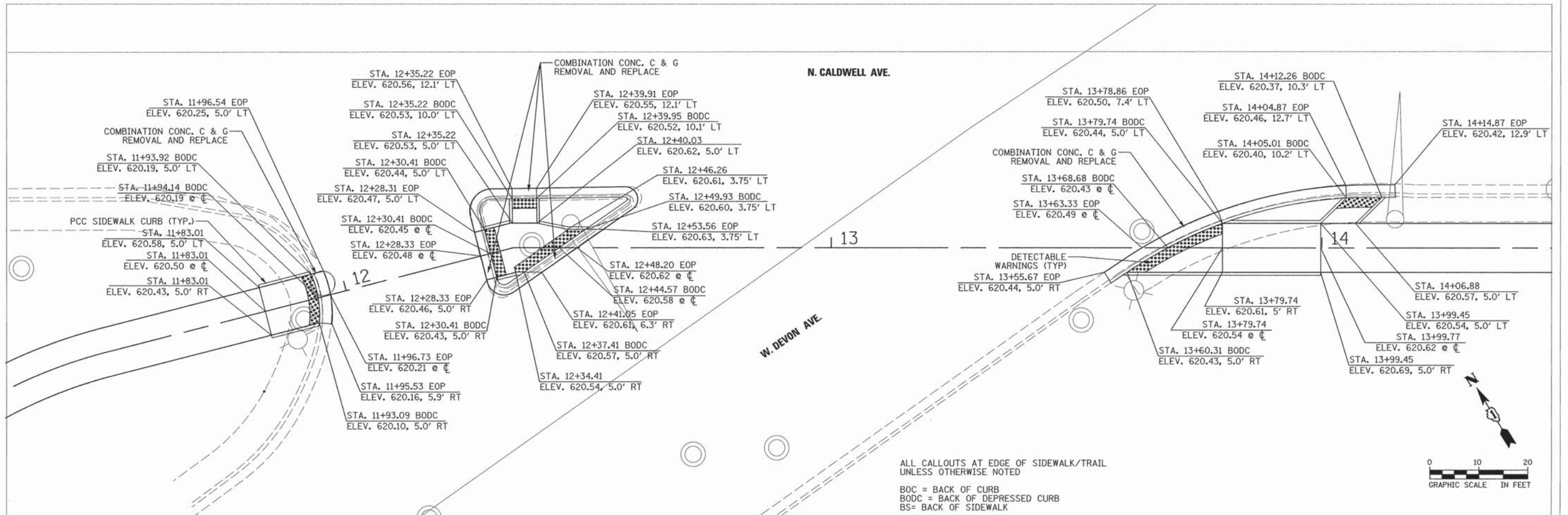
PROP. CURVE MWRD.1
 PI STA. = 501+37.35
 $\Delta = 61^\circ 54' 48''$ (LT)
 $D = 229^\circ 10' 59''$
 $R = 25.00'$
 $T = 15.00'$
 $L = 27.01'$
 $E = 4.15'$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 501+22.36$
 $P.T. STA. = 501+49.37$

PROP. CURVE MWRD.2
 PI STA. = 502+26.63
 $\Delta = 82^\circ 12' 43''$ (LT)
 $D = 229^\circ 10' 59''$
 $R = 25.00'$
 $T = 21.81'$
 $L = 35.87'$
 $E = 8.18'$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 502+04.82$
 $P.T. STA. = 502+40.69$



	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH BRANCH BIKE TRAIL EXTENSION PLAN AND PROFILE	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	DRAWN -	REVISED -			08-F3000-21-BT	COOK	98	22	
PLOT DATE = #DATE#	CHECKED -	REVISED -	SCALE: 1"= 50'			DRAWING NO. 12 OF 12	STA. 159+00 TO STA. 165+93.75	CONTRACT NO. 61A86		
	DATE - 6/22/15	REVISED -	ILLINOIS FED. AID PROJECT							

FILE NAME = #FILE#

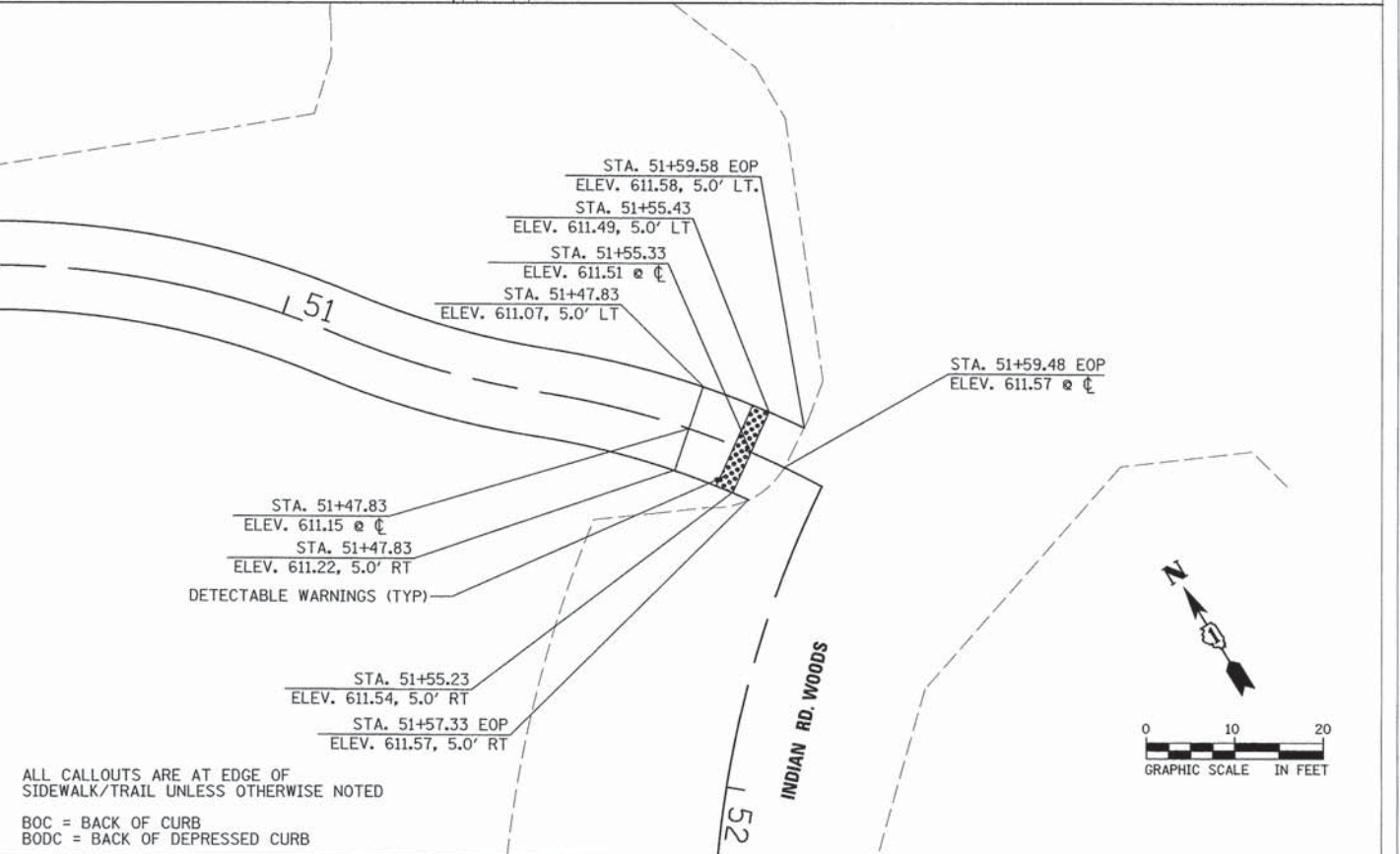
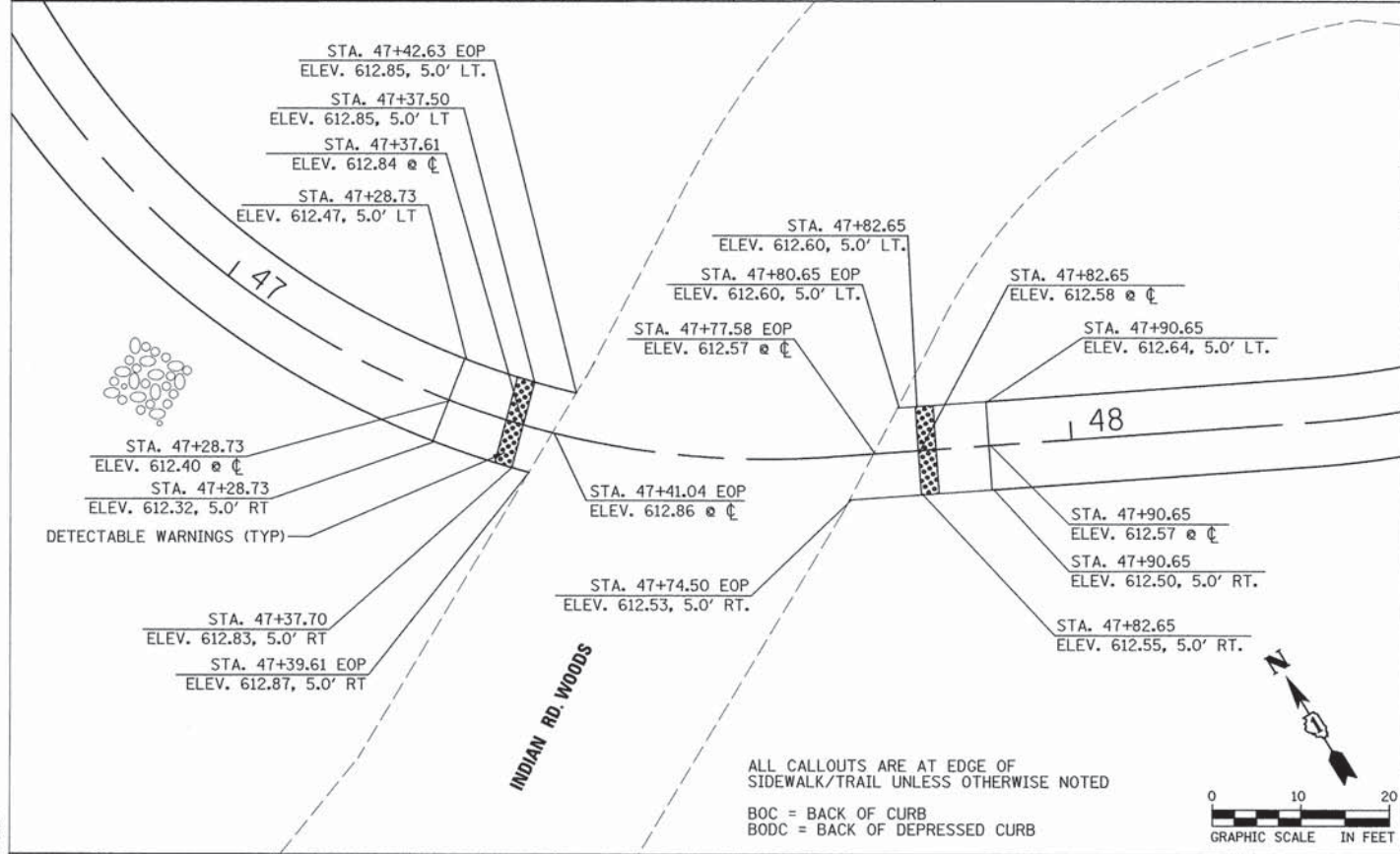
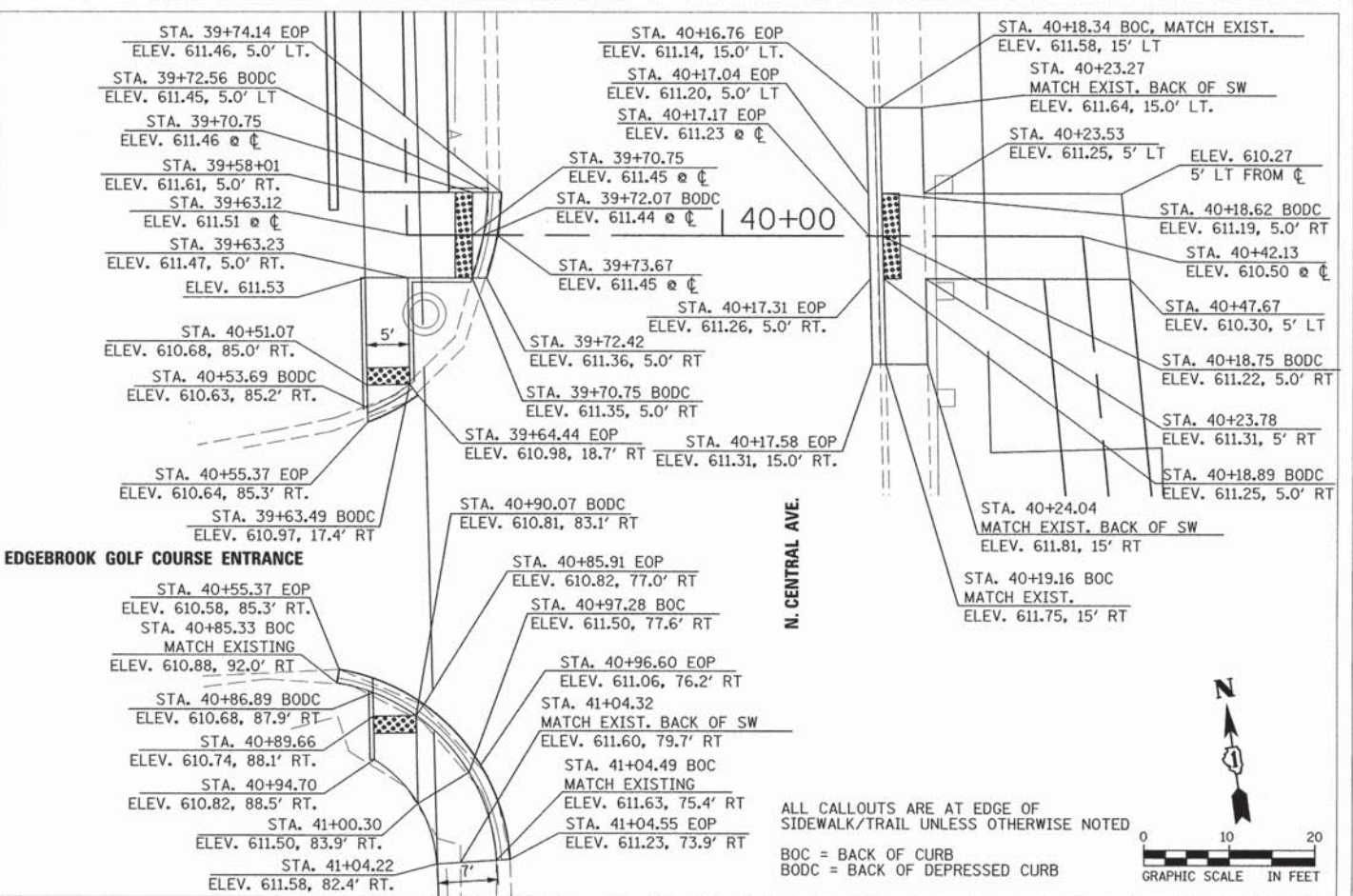
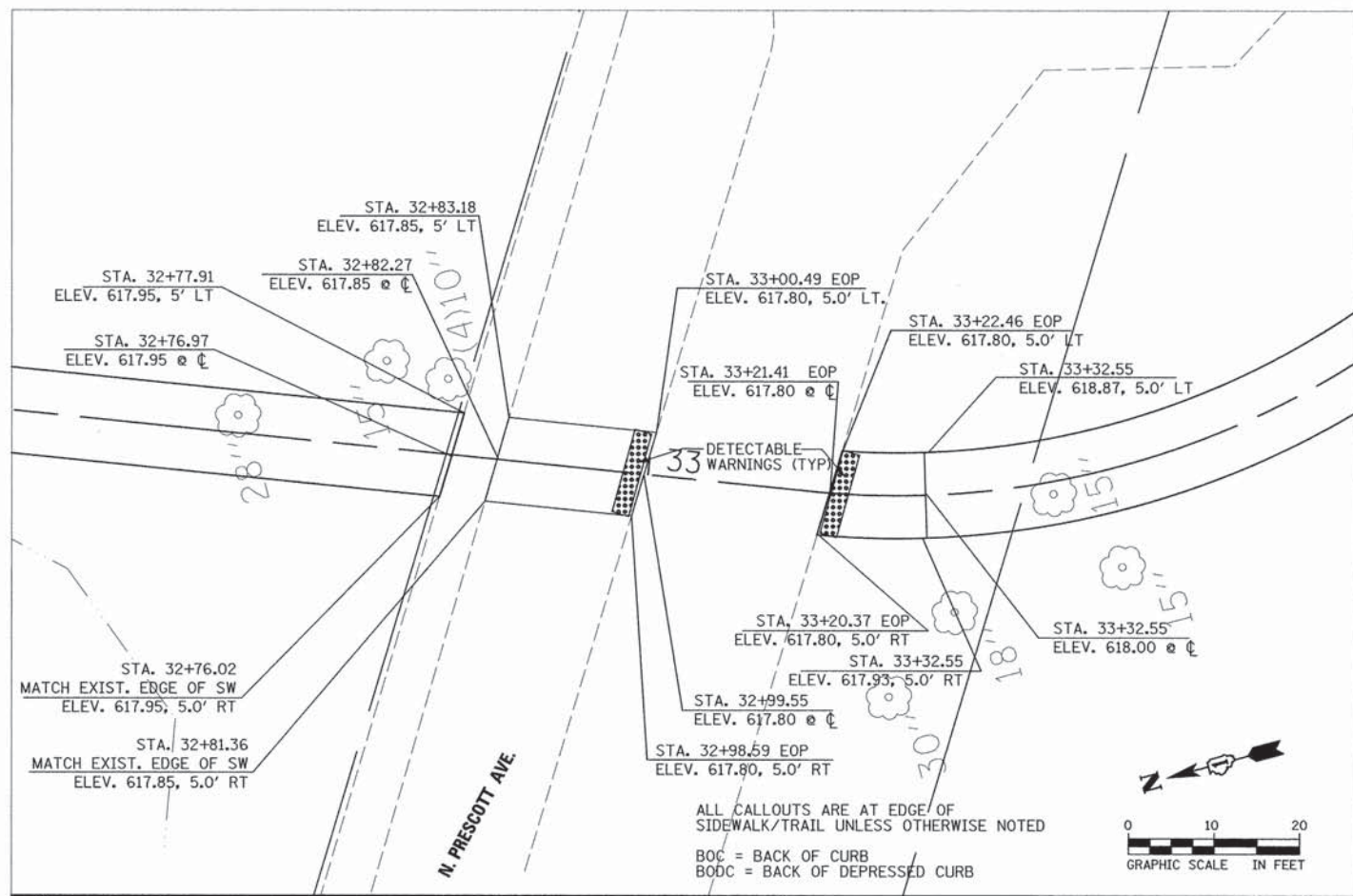


USER NAME = #USER#	DESIGNED - DDL	REVISED -
PLOT SCALE = #SCALE#	DRAWN - KJB	REVISED -
PLOT DATE = #DATE#	CHECKED - DDL	REVISED -
	DATE - 6/22/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH BIKE TRAIL EXTENSION			
SIDEWALK /ADA RAMP GRADING DETAILS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	23
CONTRACT NO. 61A86				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

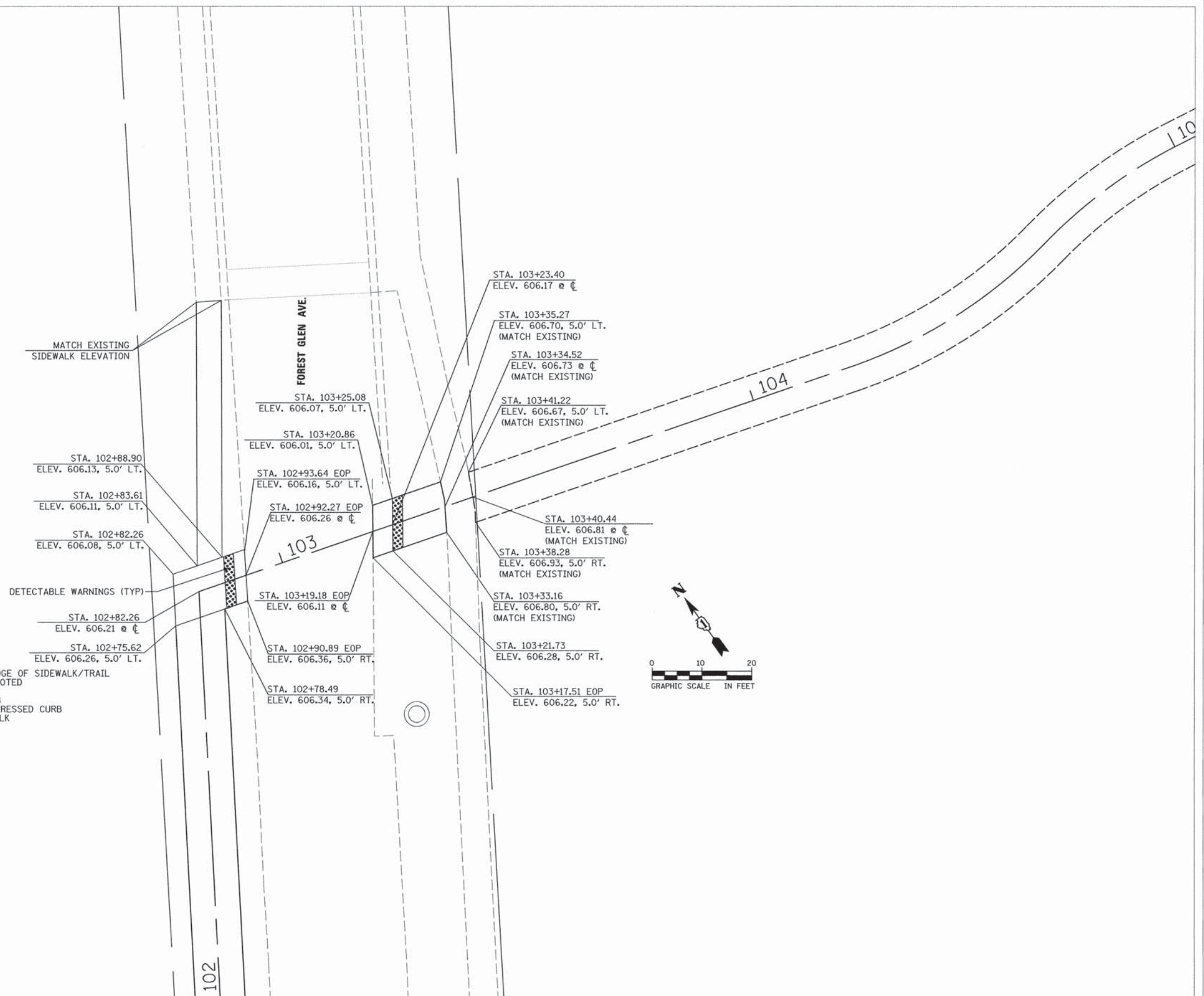


USER NAME = #USER#	DESIGNED - DDL	REVISED -
PLOT SCALE = #SCALE#	DRAWN - KJB	REVISED -
PLOT DATE = #DATE#	CHECKED - DDL	REVISED -
	DATE - 6/22/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH BIKE TRAIL EXTENSION
SIDEWALK /ADA RAMP GRADING DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	24
CONTRACT NO. 61A86				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



ALL CALLOUTS AT EDGE OF SIDEWALK/TRAIL
UNLESS OTHERWISE NOTED

BOC = BACK OF CURB
BODC = BACK OF DEPRESSED CURB
BS= BACK OF SIDEWALK

FILE NAME = BFILE#



USER NAME = #USER#	DESIGNED - DDL	REVISED -
PLOT SCALE = #SCALE#	DRAWN - KJB	REVISED -
PLOT DATE = #DATE#	CHECKED - DDL	REVISED -
	DATE - 6/22/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH BIKE TRAIL EXTENSION			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	25
CONTRACT NO. 61A86				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

POSSIBLE COFFERDAM ALTERNATE

WATER INFLATED DAM
PRODUCT SPECIFICATION

(AQUA-BARRIER™ OR EQUIVALENT)

1.1 SPECIFICATION

A WATER-INFLATED TEMPORARY DAM (AQUA-BARRIER™ OR EQUIVALENT) SHALL CONSIST OF THE FOLLOWING:

- 1) THE WATER INFLATED DAM WILL CONSIST OF A SELF CONTAINED, SINGLE TUBE WITH AN INNER RESTRAINT BAFFLE(S)/DIAPHRAM(S) STABILIZATION SYSTEM. THE WATER-INFLATED DAM MUST HAVE THE ABILITY TO STAND ALONE WITHOUT ANY ADDITION EXTERNAL MECHANICAL OR GRAVITATIONAL STABILIZATION DEVICES, AS A POSITIVE WATER BARRIER AND WATER MANAGEMENT SYSTEM.
- 2) THE WATER-INFLATED DAM SHALL BE PRODUCED FROM HEAVY GAUGE POLYVINYL CHLORIDE (PVC) REINFORCED WITH POLYESTER. THE PVC FABRIC USED TO CREATE THE INFLATABLE DAM WILL BE INFIELD REPAIRABLE UTILIZING A VINYL ADHESIVE AND PATCH MATERIAL.
- 3) THE WATER-INFLATED DAM MUST MAINTAIN MECHANICAL STABILITY IN ADDITION TO PROVIDING ANTI-ROLLING WHEN EXPOSED TO UNEVEN HYDROSTATIC PRESSURE FROM EITHER SIDE.
- 4) THE SELF-CONTAINED WATER INFLATED DAM SHALL HAVE THREADED FILL PORTS AND DRAIN PORTS FOR RAPID INFLATION AND DRAINING. THE DAM WILL BE EQUIPPED WITH END LIFTING LOOPS USED TO CONTROL THE DAM WITH EQUIPMENT DURING THE INSTALLATION AND REMOVAL PROCESS.
- 5) METHOD FOR CONNECTING THE INDIVIDUAL UNITS TOGETHER WILL CONSIST OF OVERLAPPING THE END OF THE UNITS A SPECIFIC LENGTH WHICH WILL CREATE A WATERTIGHT CONNECTION. NO OTHER DEVICES OR METHODS FOR CONNECTING THE BARRIERS ARE REQUIRED.

1.2 PRODUCT DESCRIPTION

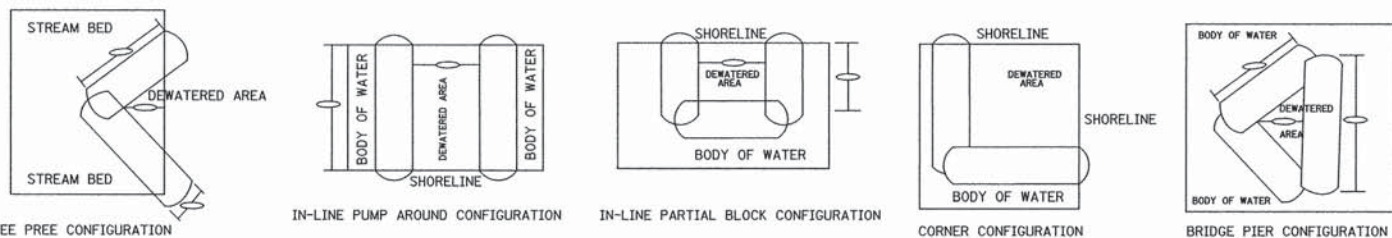
WATER-INFLATED DAMS ARE USED TO CONTROL INVASIVE WATER IN FLOODWATER SITUATIONS, AS A MEANS OF WATER MANAGEMENT TO PROVIDE ACCESS TO UNDERWATER AREAS FOR CONSTRUCTION AND MAINTENANCE OPERATIONS, HAZARDOUS LIQUID CONTAINMENT, SEDIMENT RETENTION IN ENVIRONMENTALLY SENSITIVE AREAS IN ADDITION TO A CONTINUALLY EXPANDING LIST OF WATER CONTROL RELATED APPLICATIONS.

1.3 DAM SIZE REQUIREMENTS

THE WATER-INFLATED TEMPORARY DAM HEIGHT SHALL BE DETERMINED AS FOLLOWS:

- 1) STATIC WATER HEIGHT CONDITIONS SHALL NOT EXCEED 75% OF THE PROPERLY FILLED HEIGHT OF THE BARRIER.
- 2) DYNAMIC WATER HEIGHT CONDITIONS SHALL NOT EXCEED STATED VALUE DURING HYDRODYNAMIC INSTALLATION PROCEDURES (SEE DYNAMIC INSTALLATION INSTRUCTIONS FOR COMPLETE LIST OF REQUIREMENTS.)
- 3) INSTALLATION SIDE CRITERIA ARE REQUIRED FOR ASSESSMENT OF ALL RELEVANT FACTORS.

EXCESS SLOPE, HIGH WATER VELOCITIES, DYNAMIC LOADS RESULTING FROM WAVE ACTIONS, MOUNTING SURFACE IRREGULARITIES, AND CHANGES IN INTERRELATED HYDROLOGICAL CONDITIONS CAN INCREASE THE REQUIRED WATER INFLATED DAM HEIGHT VERSUS RETENTION HEIGHT REQUIREMENTS.



AQUA-BARRIER™ CONNECTION REQUIREMENTS

EACH INFLATION AQUA-BARRIER SECTION IS STRAIGHT WITHOUT THE ABILITY TO BEND. WHEN JOINING AQUA-BARRIERS, AN OVERLAPPING TECHNIQUE IS USED. SIMPLY PLACE THE BARRIER TO BE INFLATED ON TOP OF THE END OF THE INFLATED BARRIER AND BEGIN THE INFLATION PROCESS. THE AMOUNT OF OVERLAP WILL BE DETERMINED BY BARRIER HEIGHT.

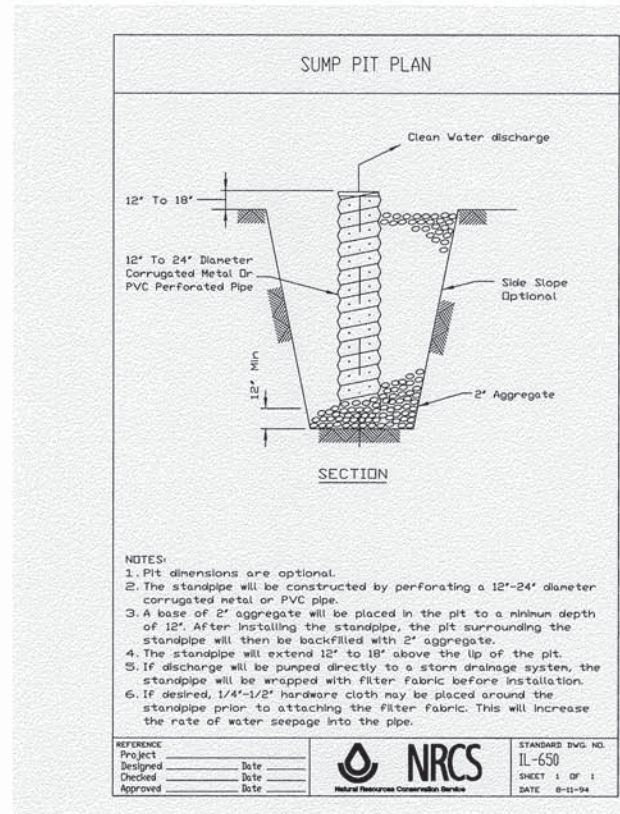
WHEN CONNECTING AQUA-BARRIERS A MINIMUM OF 8FT TO 12FT LOSS OF BARRIER LENGTH WILL BE EXPERIENCED. ALLOWANCES SHOULD BE MADE FOR THE LOSS IN LENGTH OF THE AQUA-BARRIERS DUE TO THE OVERLAP CONNECTION.

AQUA-BARRIER INFLATED HEIGHT (FT)	OVERLAP LENGTH (FT)
2	3
3	4.5
4	6
5	7.5
6	9
7	10.5
8	12

AQUA-BARRIER STANDARD HEIGHTS & DIMENSIONS

INFLATED HEIGHT (FT)	LAYFLAT WIDTH EMPTY (FT)	LAYFLAT WIDTH INFLATED (FT)	GALLONS PER LINEAR FOOT	100 FT SECTION WEIGHT	MAXIMUM DEPTH OF WATER (MG)
2	5	4	60	188 320	18
3	8.5	7	158	270 526	27
4	12	10	256	392 600	36
5	15	12.5	390	531	45
6	18	15	564	1098	54
7	21	17.5	770	1224	63
8	24	20	1007	1620	72

** THIS DEPTH OF WATER REPRESENTS 15% OF THE HEIGHT OF A FULLY INFLATED AQUA-BARRIER. IT IS REQUIRED THAT A MINIMUM 25% FREEBOARD CAPACITY BE MAINTAINED DURING ALL PHASES OF A PROJECT. EXCESS SLOPE AND BRUSH SOIL COMPOSITION, MOVING WATER, AND RELATED HYDROLOGICAL CRITERIA MAY INCREASE OR DECREASE THE ABILITY OF AN AQUA-BARRIER TO PERFORM AS PROJECTED.



NOTES:
 1. Pit dimensions are optional.
 2. The standpipe will be constructed by perforating a 12"-24" diameter corrugated metal or PVC pipe.
 3. A base of 2" aggregate will be placed in the pit to a minimum depth of 12". After installing the standpipe, the pit surrounding the standpipe will then be backfilled with 2" aggregate.
 4. The standpipe will extend 12" to 18" above the lip of the pit.
 5. If discharge will be pumped directly to a storm drainage system, the standpipe will be wrapped with filter fabric before installation.
 6. If desired, 1/4"-1/2" hardware cloth may be placed around the standpipe prior to attaching the filter fabric. This will increase the rate of water seepage into the pipe.

REFERENCE:
 Project _____ Date _____
 Designed _____ Date _____
 Checked _____ Date _____
 Approved _____ Date _____

NRCS
 National Technical Cooperation Service

STANDARD ENG. NO. IL-650
 SHEET 1 OF 1
 DATE 8-13-94

PRACTICE STANDARD
 SUMP PIT
 CODE 950
 DEFINITION

A TEMPORARY PIT WHICH IS CONSTRUCTED TO TRAP AND FILTER WATER FOR PUMPING WATER INTO A SUITABLE DISCHARGE AREA.

PURPOSE
 THE PURPOSE OF THIS PRACTICE IS TO REMOVE EXCESSIVE WATER IN A MANNER THAT IMPROVES THE QUALITY OF THE WATER BEING PUMPED.

CONDITIONS WHERE PRACTICE APPLIES
 SUMP PITS ARE CONSTRUCTED WHEN WATER COLLECTS DURING THE EXCAVATION. THIS PRACTICE IS PARTICULARLY USEFUL IN URBAN AREAS DURING EXCAVATION FOR BUILDING FOUNDATIONS.

CRITERIA
 A PERFORATED VERTICAL STANDPIPE IS PLACED IN THE CENTER OF THE PIT TO COLLECT FILTERED WATER. THE STANDPIPE WILL BE A PERFORATED 12" TO 24" DIAMETER CORRUGATED METAL OR PVC PIPE. WATER IS THEN PUMPED FROM THE CENTER OF THE PIPE TO A SUITABLE DISCHARGE AREA. THE PIT WILL BE FILLED WITH COURSE AGGREGATE MEETING THE REQUIREMENTS FOR IDOT STANDARDS FOR GRADATIONS OF CA-2 OR CA-4.

CONSIDERATIONS
 DISCHARGE OF WATER PUMPED FROM THE STANDPIPE SHOULD BE TO A SUITABLE PRACTICE SUCH AS PRACTICE STANDARD IMPOUNDMENT STRUCTURE-ROUTED 842, PORTABLE SEDIMENT TANK 895, TEMPORARY SEDIMENT TRAP 960, OR STABILIZED AREA.

IF WATER FROM THE SUMP PIT WILL BE PUMPED DIRECTLY TO A STORM DRAINAGE SYSTEM, FILTER FABRIC WILL BE WRAPPED AROUND THE STANDPIPE TO ENSURE CLEAN IF WATER DISCHARGE. THE FABRIC, IF USED, SHALL MEET THE REQUIREMENTS AS SHOWN IN MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2 CLASS 1 WITH AN EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NON-WOVEN OR 50 FOR WOVEN. IT IS RECOMMENDED THAT 1/4" TO 1/2" INCH HARDWARE CLOTH WIRE BE WRAPPED AROUND AND SECURED TO THE STANDPIPE TO ATTACHING THE FILTER FABRIC. THIS WILL INCREASE THE RATE OF WATER SEEPAGE INTO THE STANDPIPE.

PLANS AND SPECIFICATIONS
 PLANS AND SPECIFICATIONS FOR INSTALLING AND UTILIZING SUMP PITS SHALL BE IN KEEPING WITH STANDARD AND SHALL DESCRIBE THE REQUIREMENTS FOR APPLYING THE PRACTICE TO ACHIEVE ITS INTENDED PURPOSE.

THE CONTRACTOR OR RESPONSIBLE REVIEWING AUTHORITY WILL DETERMINE THE NUMBER OF SUMP PITS AND THEIR LOCATIONS.

STANDARD DRAWING IL-650 SUMP PIT PLAN MAY BE USED AS A PLAN SHEET.

OPERATION AND MAINTENANCE
 THE SUMP PIT MAY HAVE TO BE REPLACED IF THE PIT AND FILTER FABRIC PLUGS WITH SEDIMENT.

ALL WORK DESCRIBED ABOVE WILL NOT BE PAID FOR SEPARATELY BUT RATHER CONSIDERED INCIDENTAL TO THE CONTRACT.
 NRCS IL AUGUST 1994

FILE NAME = #FILE#

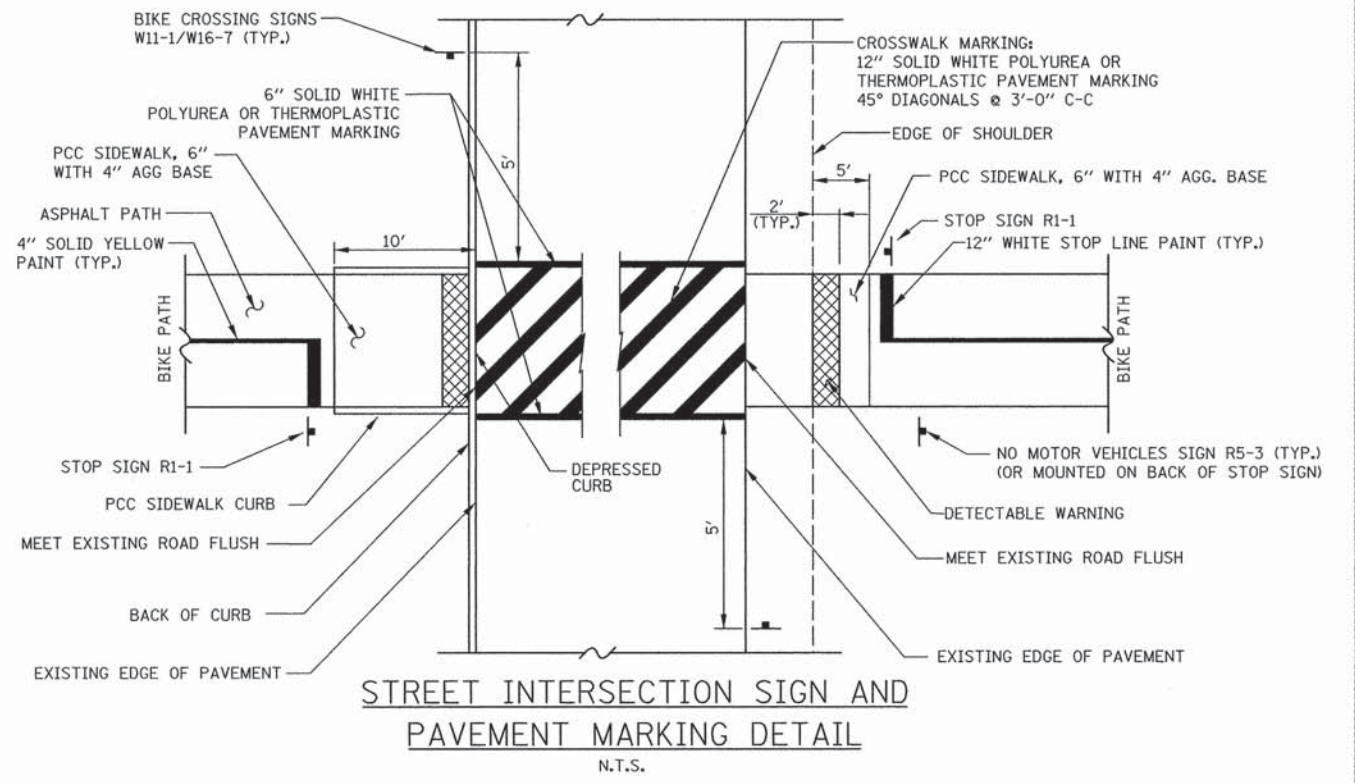


USER NAME = #USER#	DESIGNED - -	REVISED -
PLOT SCALE = #SCALE#	DRAWN - -	REVISED -
PLOT DATE = #DATE#	CHECKED - -	REVISED -
	DATE - -	REVISED -

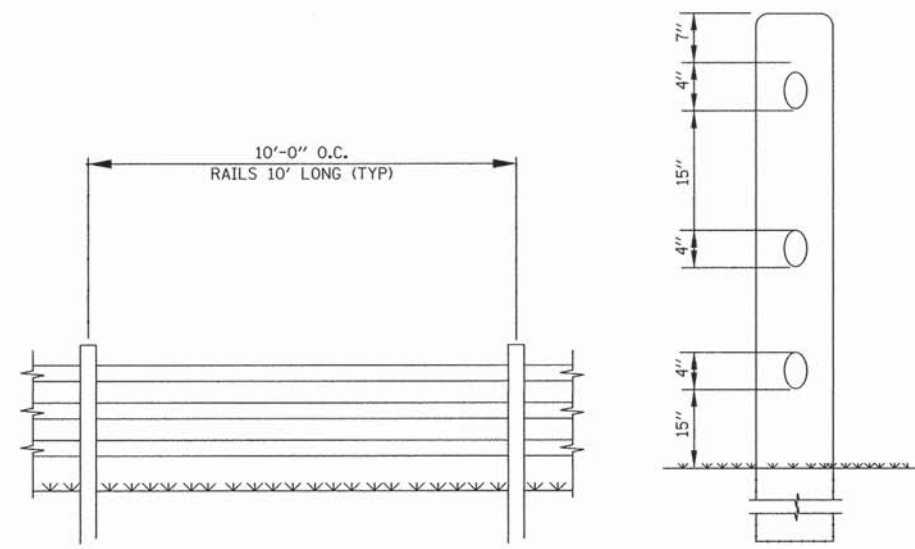
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

NORTH BRANCH BIKE TRAIL EXTENSION
 SCALE: SHEET NO. OF SHEETS STA. TO STA.

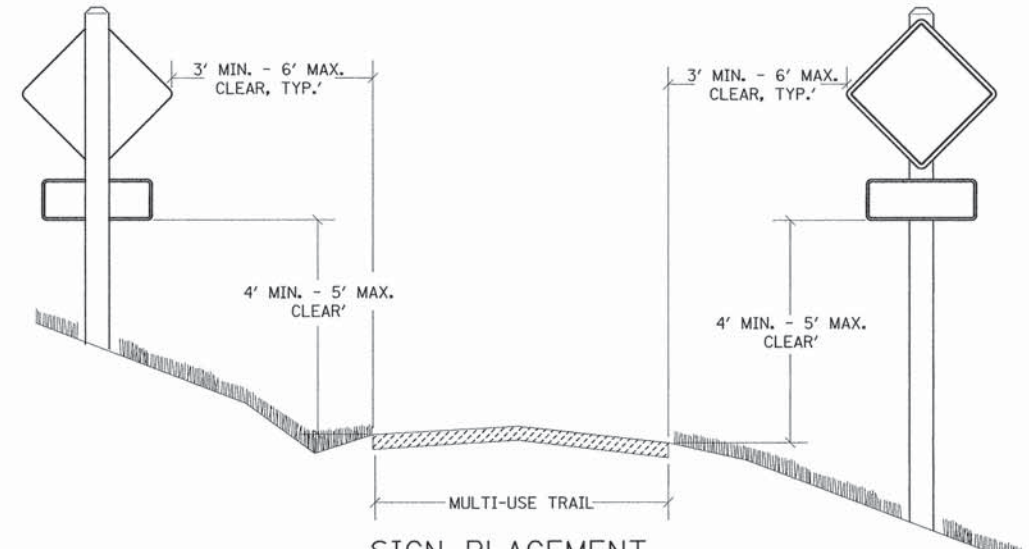
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	26
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 61A86	



STREET INTERSECTION SIGN AND PAVEMENT MARKING DETAIL
N.T.S.



RUSTIC RAIL FENCE DETAIL
N.T.S.



SIGN PLACEMENT
N.T.S.

FILE NAME = #FILES

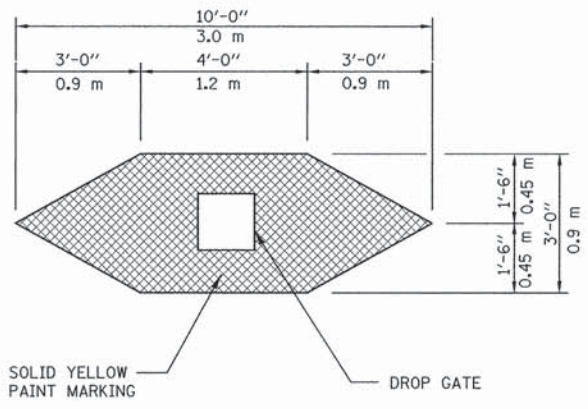


USER NAME = #USER#	DESIGNED - PMV	REVISED -
PLOT SCALE = #SCALE#	DRAWN - PMV	REVISED -
PLOT DATE = #DATE#	CHECKED - NPP	REVISED -
	DATE - 6/22/15	REVISED -

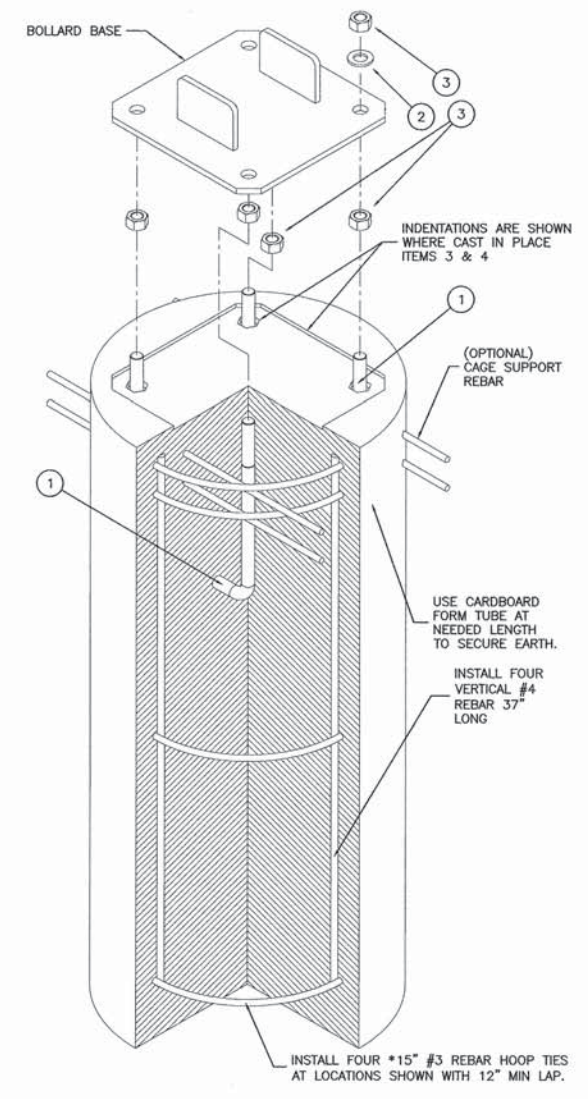
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

NORTH BRANCH BIKE TRAIL EXTENSION MISCELLANEOUS DETAILS		
SCALE:	SHEET NO. 1 OF 4 SHEETS	STA. TO STA.

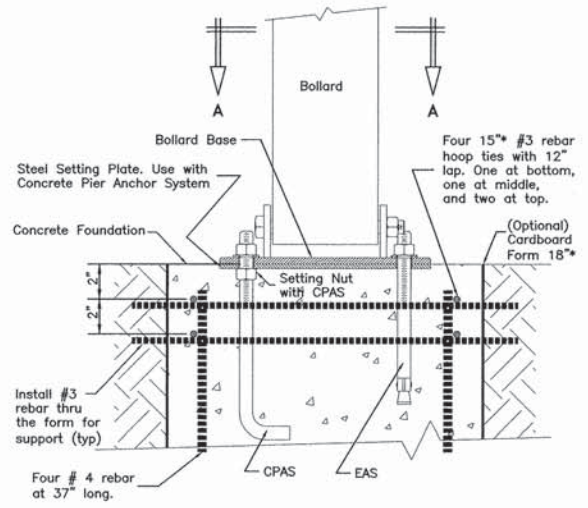
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	27
CONTRACT NO. 61A86				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



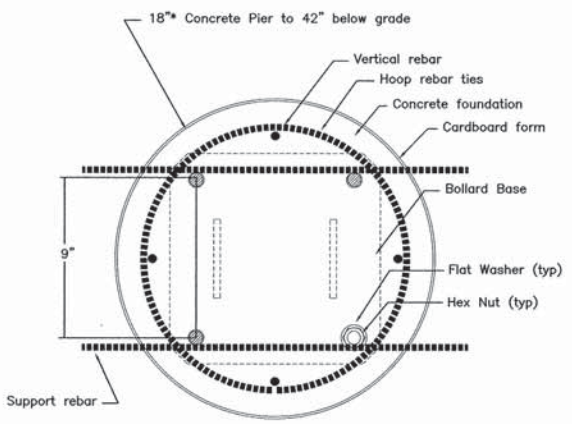
DROP GATE MARKING DETAIL
N.T.S.



CONCRETE PIER ANCHOR SYSTEM (CPAS)

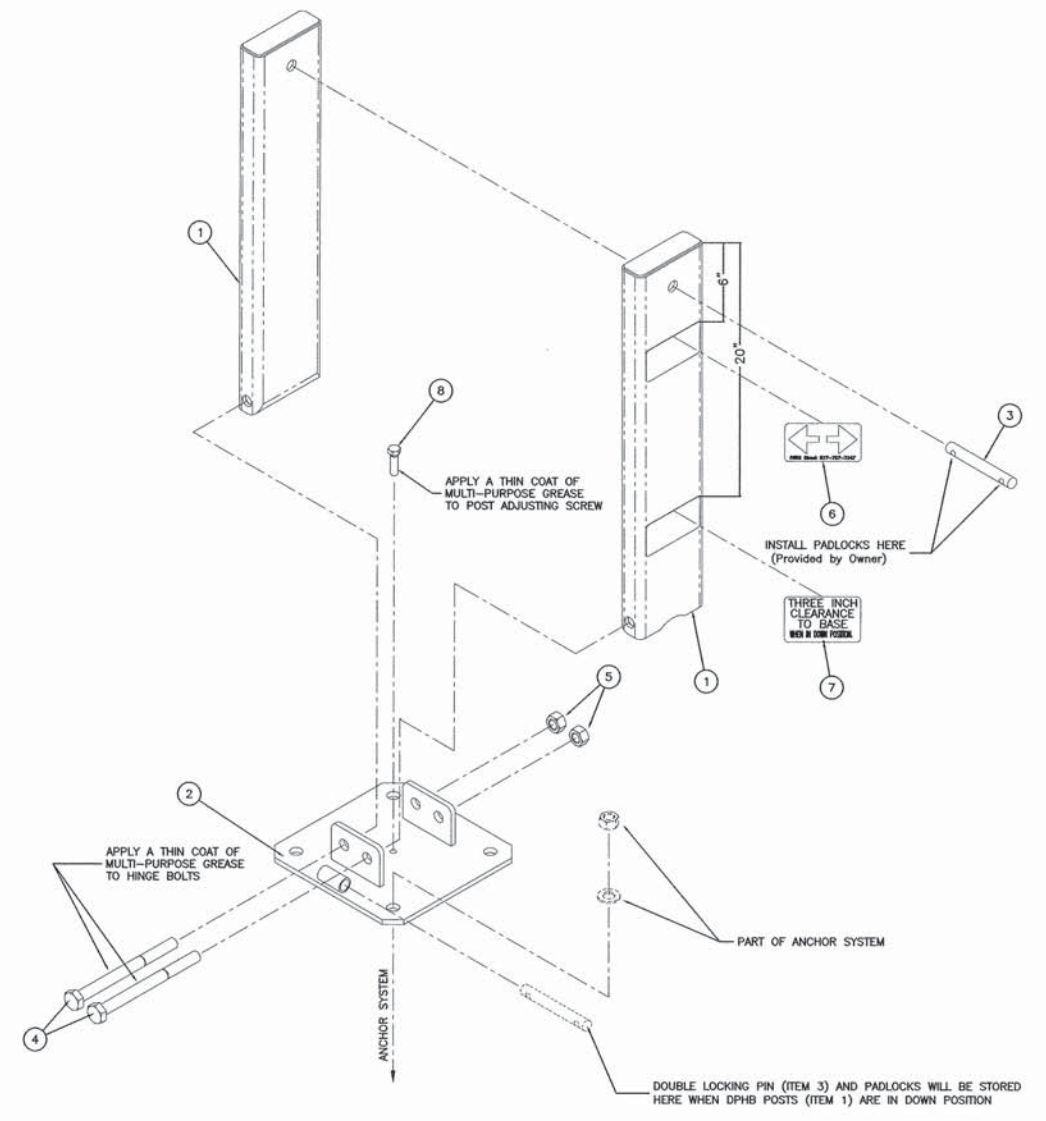


FRONT ELEVATION SECTION



PLAN SECTION "A-A"

DROP GATE, INSTALLATION DETAIL
N.T.S.



DROP GATE DETAIL

FILE NAME = #FILE#

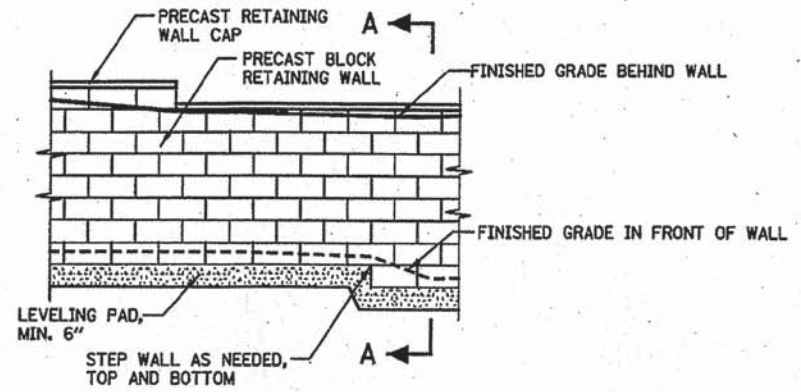


USER NAME = #USER#	DESIGNED - -	REVISED -
PLOT SCALE = #SCALE#	DRAWN - -	REVISED -
PLOT DATE = #DATE#	CHECKED - -	REVISED -
	DATE - -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

NORTH BRANCH BIKE TRAIL EXTENSION MISCELLANEOUS DETAILS	
SCALE:	SHEET NO. 2 OF 4 SHEETS STA. TO STA.

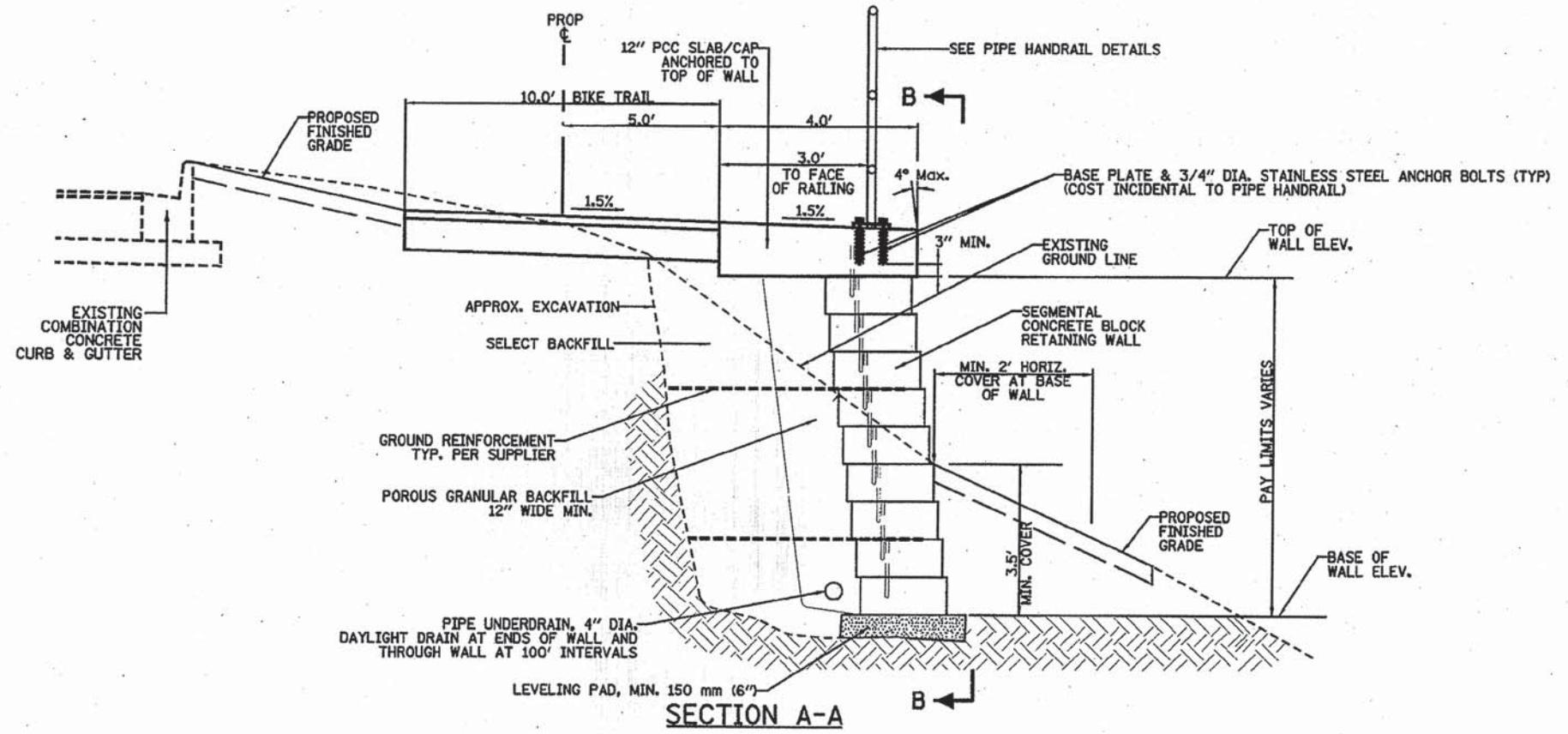
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	28
CONTRACT NO. 61A86				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



**SECTION B-B
ELEVATION**

NOTES

1. THE CONTRACTOR SHALL SUBMIT DESIGN, CONSTRUCTION PLANS WITH MATERIAL INFORMATION & SHOP DRAWINGS FOR CONNECTION DETAILS SIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF ILLINOIS TO THE ENGINEER FOR APPROVAL BEFORE ORDERING MATERIALS.
2. RETAINING WALL EQUIVALENT FLUID PRESSURE = 50(PCF)
3. REINFORCING BARS SHALL BE GRADE 60
4. GROUT MORTAR, f'm = 2500 psi (MIN.)
5. THE DESIGN OF THE RETAINING WALL SHALL BE IN COMPLIANCE WITH THE GUIDELINES FOR THE DESIGN OF MECHANICALLY STABILIZED EARTH WALLS AS DEVELOPED BY AASHTO-AGC-ARTA JOINT COMMITTEE TASK FORCE 27 GROUND MODIFICATION SYSTEMS.
6. EXCAVATION, LEVELING PAD, BACKFILL, PIPE UNDERDRAIN, GROUND REINFORCEMENT, GROUND RESTORATION, AND SEEDING OF RESTORED GROUND ARE INCLUDED IN COST OF SEGMENTAL CONCRETE BLOCK WALL.
7. INSTALLATION OF THE 12" PCC SLAB/CAP AND ANCHORS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE THE COST OF THE SEGMENTAL CONCRETE BLOCK WALL.



SECTION A-A
**SEGMENTAL CONCRETE BLOCK
RETAINING WALL DETAIL**
N.T.S.
STA. 37+50 TO STA. 39+60

**SEGMENTAL CONCRETE BLOCK
RETAINING WALLS SITING DATA**

WALL AT	STATION	TOP OF WALL ELEV. (FEET)	BASE OF WALL ELEV. (FEET)	WALL HEIGHT (FEET)
CENTRAL AVE.	37+50	613.36	608.00	5.36
	38+00	612.36	603.00	9.36
	38+50	611.71	603.40	8.31
	39+00	611.41	602.14	9.27
	39+60	611.40	603.50	7.90

FILE NAME = 01FILES

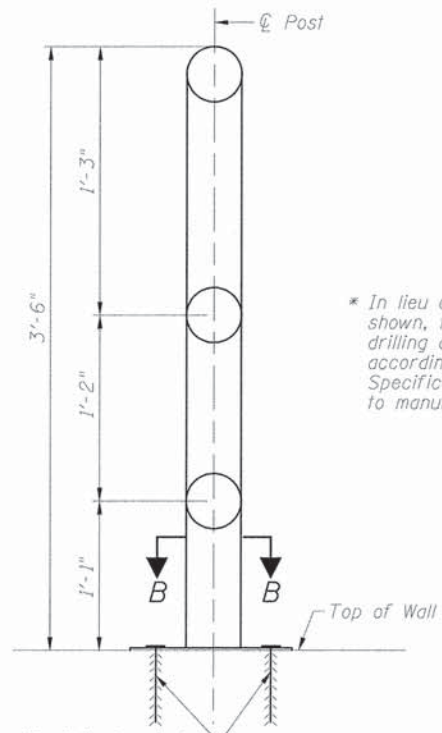


USER NAME = *USER*	DESIGNED - DDL	REVISED
PLOT SCALE = *SCALE*	DRAWN - KJB	REVISED
PLOT DATE = *DATE*	CHECKED - DDL	REVISED
	DATE - 6/22/15	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**NORTH BRANCH BIKE TRAIL EXTENSION
MISCELLANEOUS DETAILS**
SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

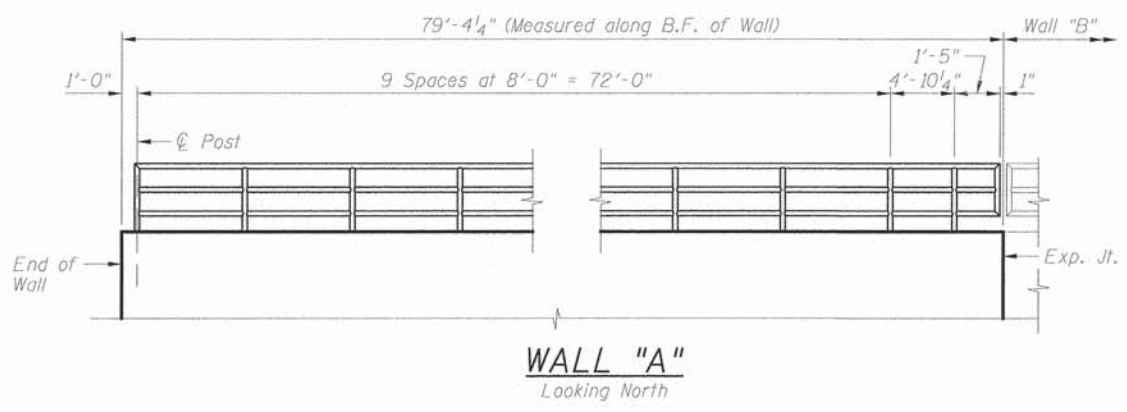
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	29
CONTRACT NO. 61A86				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



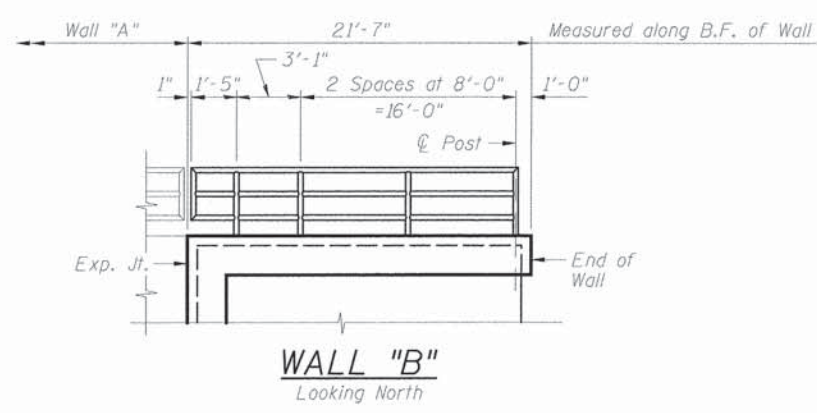
* In lieu of the cast-in-place anchor rods shown, the Contractor has the option of drilling and setting 3/4" dia. anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to manufacturer's specifications.

* 3/4" ϕ Stainless Steel Anchor Rods with nut and washer, typ.

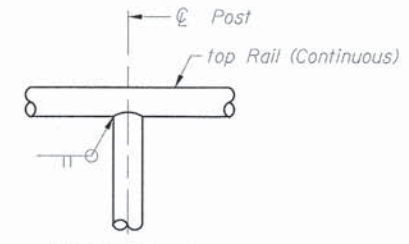
DETAIL - WALL MOUNTED RAIL POST



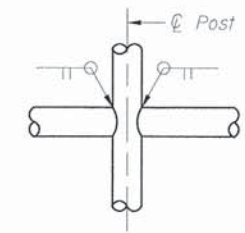
WALL "A"
Looking North



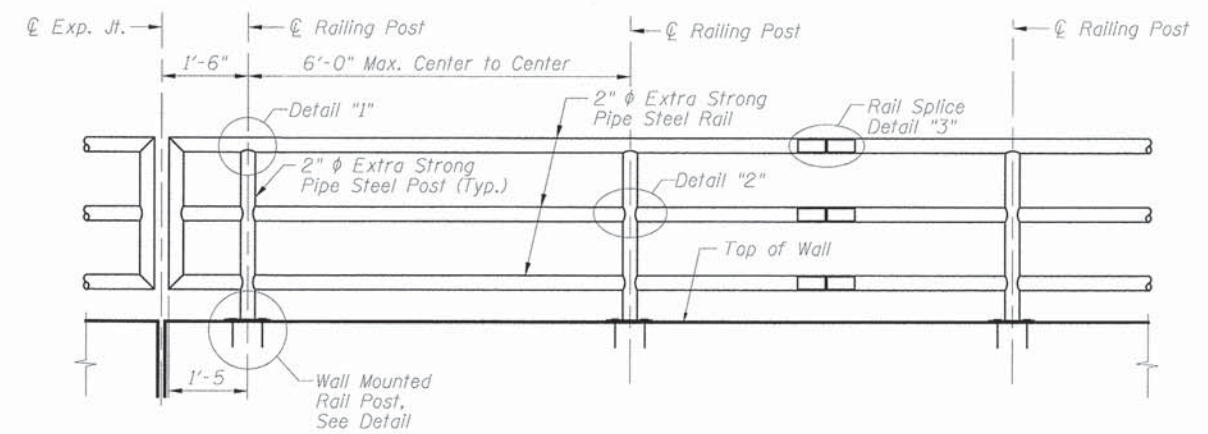
WALL "B"
Looking North



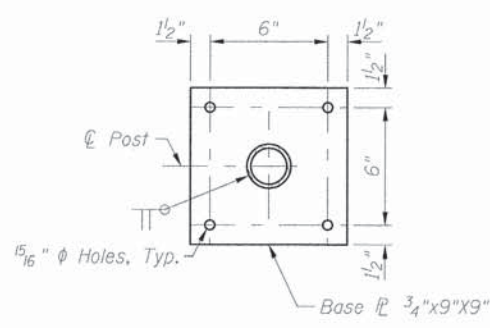
DETAIL 1



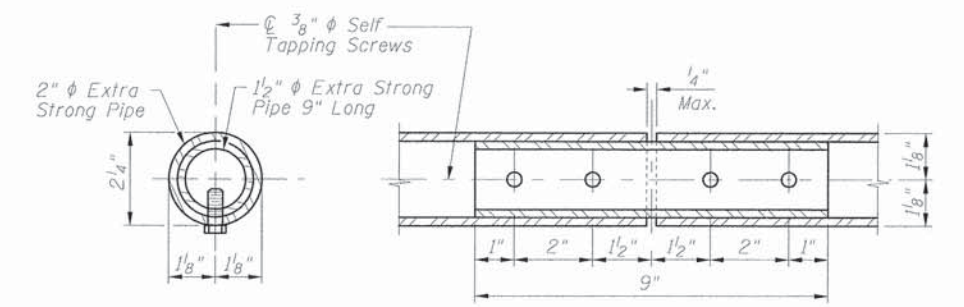
DETAIL 2



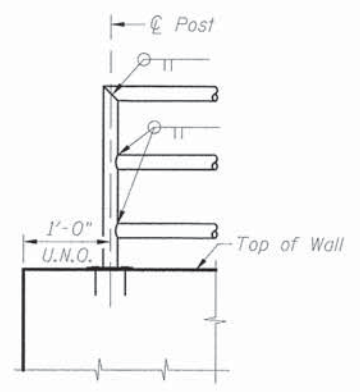
TYPICAL PIPE HANDRAIL ELEVATION



SECTION B-B



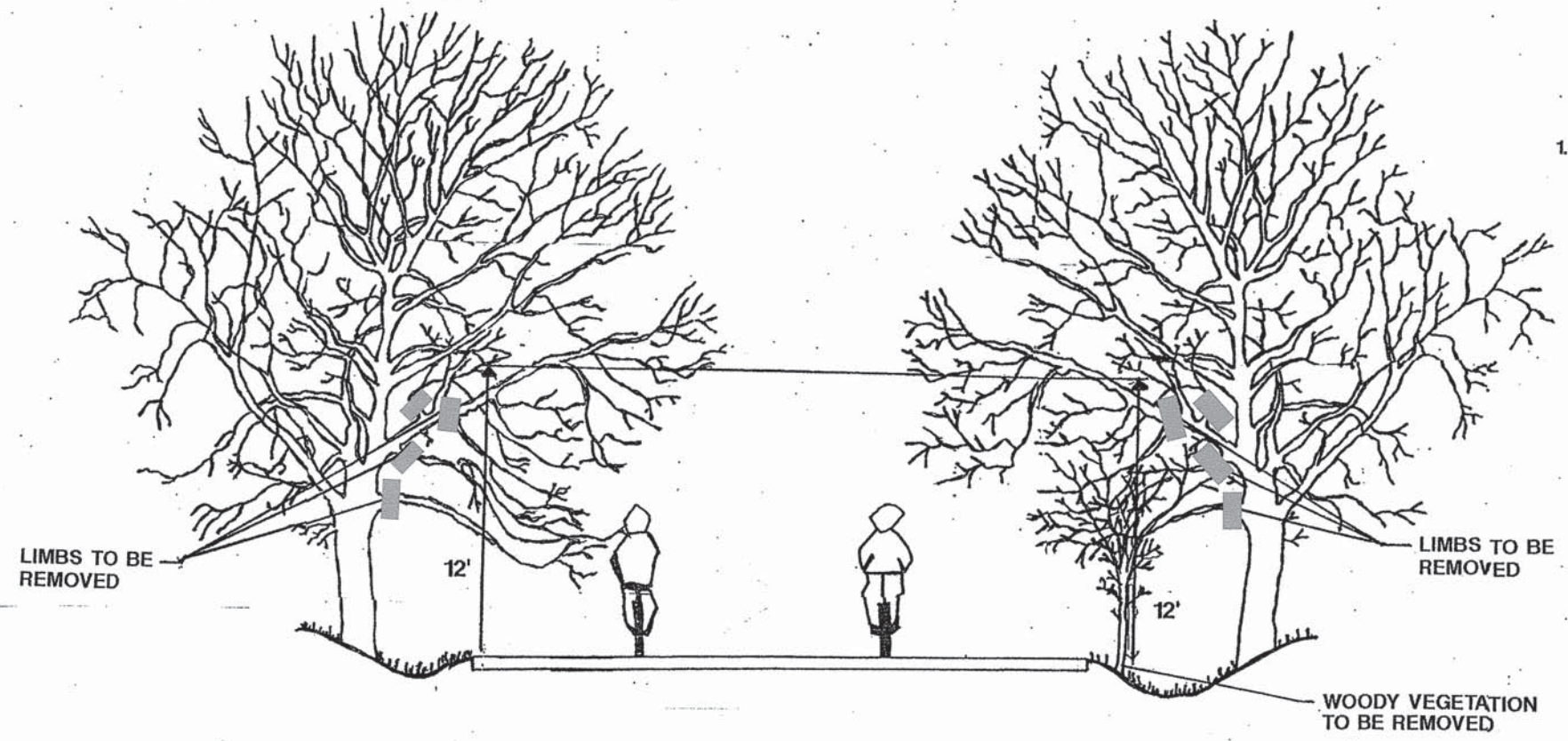
DETAIL 3 - RAIL SPLICE



ELEVATION SHOWING END POST

NOTES:

1. Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot.
2. Hollow structural steel tubing shall conform to the requirements of ASTM designation A 500, Grade B, Structural Steel Tubing.
3. All other steel shapes and plates shall conform to the requirements of AASHTO M-270M, Grade 345.
4. All posts, railing, splices, anchor devices, and bent plates shall be galvanized after shop fabrication according to AASHTO M-111 and ASTM A-385. All bolts, nuts and washers shall be galvanized according to AASHTO M-232 except stainless steel bolts as noted.
5. Vent holes for galvanizing shall be placed in the posts and rails at locations that will not allow the accumulation of moisture in the members.
6. Rail to match horizontal profile of bikepath.



GENERAL NOTES

1. THE NATIONAL ARBORIST ASSOCIATION'S PRUNING STANDARDS FOR SHADE TREES CLASS II - STANDARD PRUNING SPECIFICATIONS SHALL BE FOLLOWED.

FILE NAME = BFILES



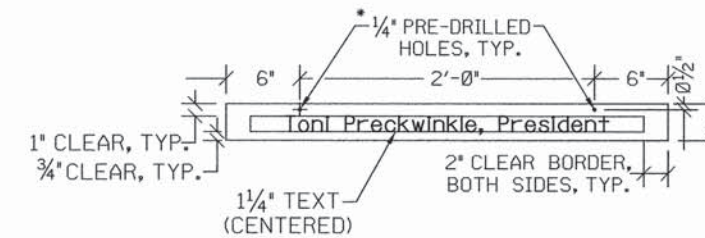
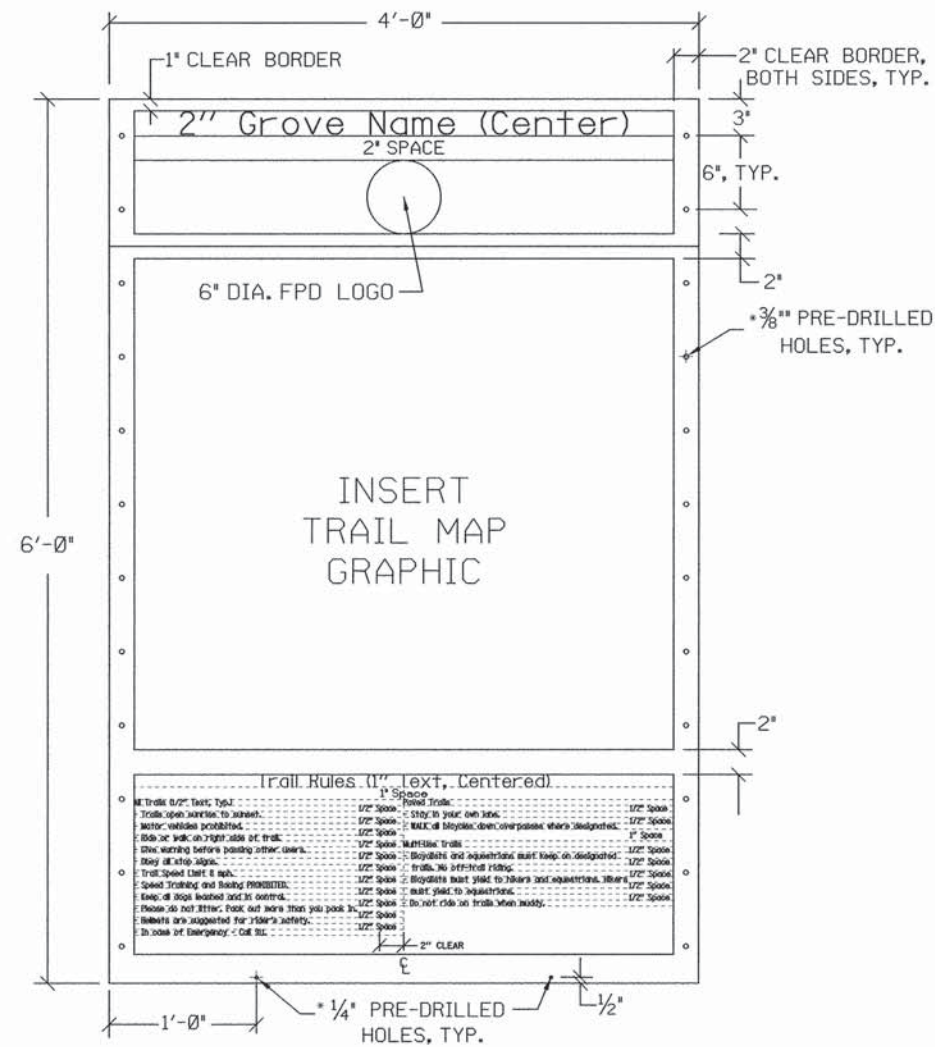
USER NAME = #USER#	DESIGNED - -	REVISED -
PLOT SCALE = #SCALE#	DRAWN - -	REVISED -
PLOT DATE = #DATE#	CHECKED - -	REVISED -
	DATE - -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**NORTH BRANCH BIKE TRAIL EXTENSION
PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE**

SCALE: NTS SHEET NO. 4 OF 4 SHEETS STA. — TO STA. —

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	30
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61A86	



PRESIDENT PANEL NOTES:

1. PANEL SHALL BE .080" ALUMINUM PANEL, ENGINEER GRADE WITH DOUBLE-SIDED GRAPHIC.
2. BACKGROUND COLOR: CREAM
TEXT COLOR: MAROON
3. FONT: BOOKMAN OLD STYLE, BOLD, UPPER AND LOWER CASE LETTERS.
4. COLOR SAMPLES ON FINISHED MATERIALS TO BE PROVIDED FOR APPROVAL.
5. SHOP DRAWINGS SHALL BE PROVIDED FOR APPROVAL.

TRAIL HEAD PRESIDENT SIGN PANEL
N.T.S.

NOTES:

- | | | |
|---|--|---|
| 1. PANEL SHALL BE .125" ALUMINUM, ENGINEER GRADE, WITH DOUBLESIDED GRAPHIC WITH ANTI-GRAFFITI COATING, BOTH SIDES OF PANEL. | 4. RULES SECTION - BACKGROUND COLOR: CREAM
TEXT COLOR: MAROON.
LEFT JUSTIFY TEXT EXCEPT TITLE. | 7. COLOR SAMPLES ON FINISHED MATERIALS TO BE PROVIDED FOR APPROVAL. |
| 2. HEADER SECTION - BACKGROUND COLOR: MAROON
TEXT AND LOGO COLOR: CREAM | 5. FONT: BOOKMAN OLD STYLE, BOLD. | 8. SHOP DRAWINGS SHALL BE SUBMITTED ROF APPROVAL. |
| 3. MAP SECTION - BACKGROUND COLOR: CREAM | 6. MAP GRAPHIC, GROVE NAMES AND RULES TEXT TO BE PROVIDED BY FOREST PRESERVE DISTRICT IN DIGITAL FORMAT. | |

TRAIL HEAD SIGN PANEL
N.T.S.

SIGN PANEL DETAIL

FILE NAME = #FILES#



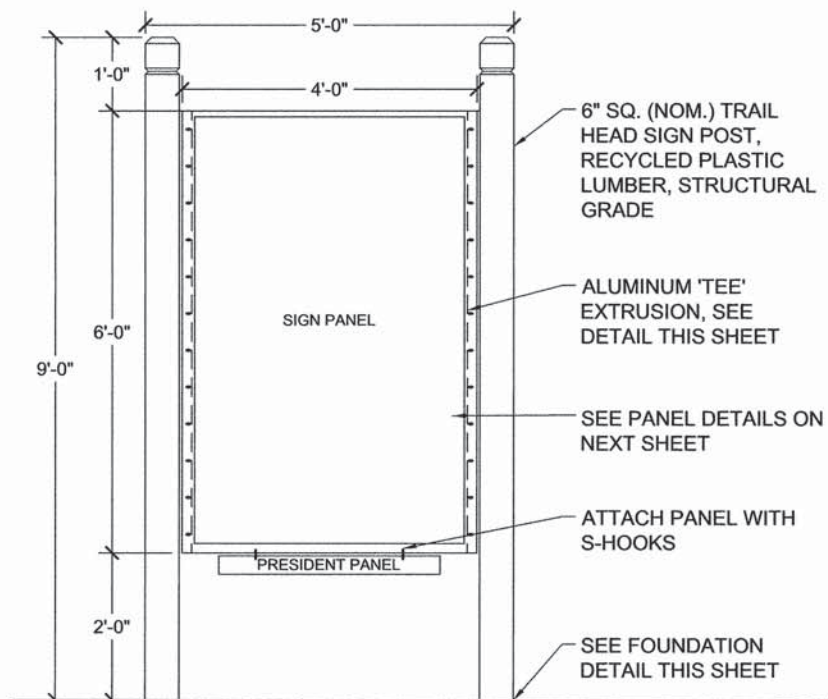
USER NAME = #USER#	DESIGNED - -	REVISED -
PLOT SCALE = #SCALE#	DRAWN - -	REVISED -
PLOT DATE = #DATE#	CHECKED - -	REVISED -
	DATE - -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH BIKE TRAIL EXTENSION

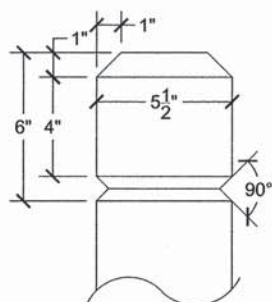
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	31
CONTRACT NO. 61A86				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



NOTES:
1. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL.

GRAPHIC SAMPLE OF TRAIL HEAD SIGN

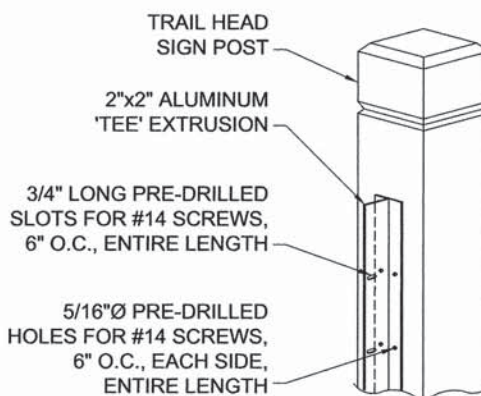


POST TOP DETAIL

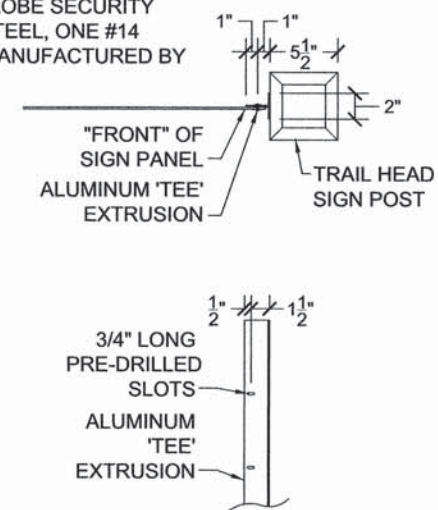
NOTES:

1. FASTEN TEE TO POST WITH #14 x 1.5" SIX-LOBE SECURITY SCREWS, BUTTON HEAD, TYPE SMS, STAINLESS STEEL AND WASHER.

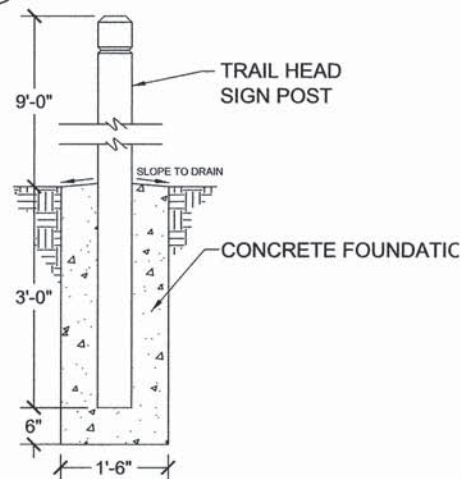
2. FASTEN SIGN PANEL TO TEE WITH #14 x 1" SIX-LOBE SECURITY SCREWS, BUTTON HEAD, TYPE M/S, STAINLESS STEEL, ONE #14 WASHER AND ONE #14 TAMPER-PROOF NUT AS MANUFACTURED BY GUARD-NUT INC., SERIES 75, PLATED STEEL.



ALUMINUM EXTRUSION

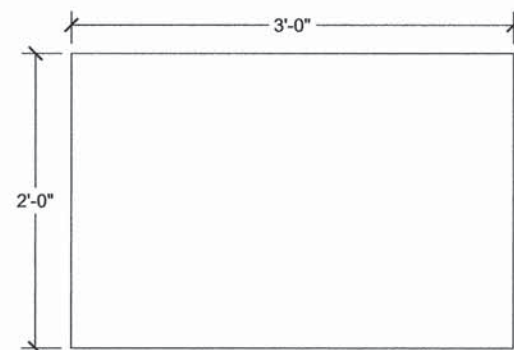


1 TRAIL HEAD SIGN
NO SCALE



3 TRAIL HEAD POST FOUNDATION
NO SCALE

2 TRAIL HEAD POST DETAILS
NO SCALE



4 INTERPRETIVE SIGN PANEL
NO SCALE

NOTES:

1. PANEL SHALL BE .125" ALUMINUM, ENGINEER GRADE, WITH DOUBLE-SIDED GRAPHIC WITH ANTI-GRAFFITI COATING, BOTH SIDES OF PANEL.

2. ALL GRAPHICS TO BE PROVIDED BY FOREST PRESERVE DISTRICT IN DIGITAL FORMAT.

3. COLOR SAMPLES ON FINISHED MATERIALS TO BE PROVIDED FOR APPROVAL.

4. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL.

SIGN DETAILS

FILE NAME = #FILES



USER NAME = #USER#	DESIGNED - -	REVISED -
PLOT SCALE = #SCALE#	DRAWN - -	REVISED -
PLOT DATE = #DATE#	CHECKED - -	REVISED -
	DATE - -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

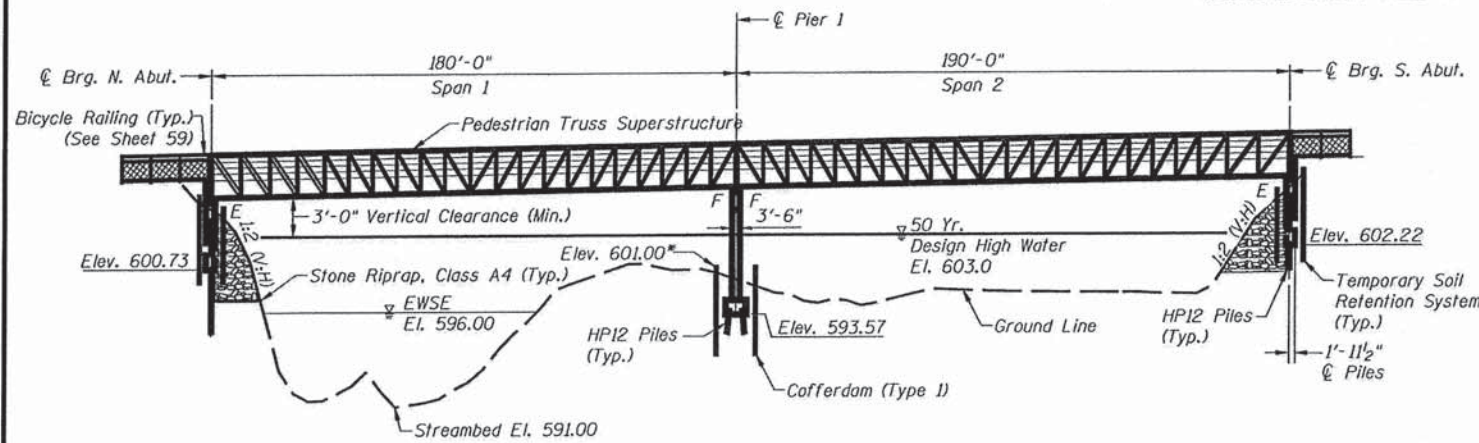
NORTH BRANCH BIKE TRAIL EXTENSION

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	32
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A86	

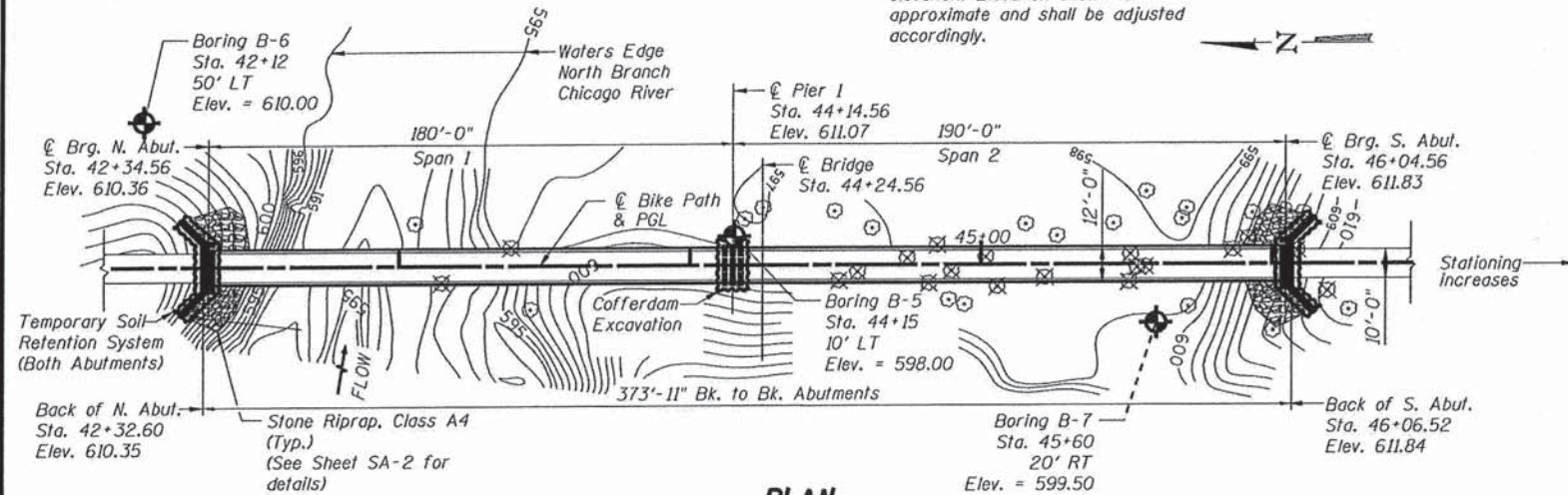
Benchmark: Control Point #7: Sta. 41+91.64 Offset 31.14 ft RT N=1,939,612.458 E=1,138,483.459 EL=612.540
 Control Point #8: Sta. 47+47.02 Offset 191.26 ft RT N=1,939,020.846 E=1,138,330.835 EL=613.643
 Existing Structure: None.

NOTE:
 HORIZONTAL DATUM: NAD 83
 VERTICAL DATUM: NAVD 88



ELEVATION
(Looking East)

*Top of Cofferdam shall be set one foot above the existing ground elevation. Elevation shown is approximate and shall be adjusted accordingly.



PLAN

WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
10	2,495	736	737	600.3	0.1	0.1	600.4	600.4	
Design	50	3,580	956	958	603.0	0.1	0.1	603.1	603.1
Base	100	4,065	1,078	1,079	604.8	0.1	0.1	604.9	604.9
Overlapping									
Max. Calc.	500	5,330	1,186	1,187	606.8	0.1	0.2	606.9	607.0

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, (6th Edition with 2012 Interims).

Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Adopted January 1, 2012; and Supplemental Specifications and Recurring Special Provisions Adopted January 1, 2015.

2009 AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges.

CLASSIFICATION

Pedestrian/Bicycle Bridge

LIVE LOADING

90 psf Live Load (May be adjusted for influence area)

20,000 lb. Vehicle Load (H-10 Truck)

DESIGN SCOUR ELEVATION TABLE

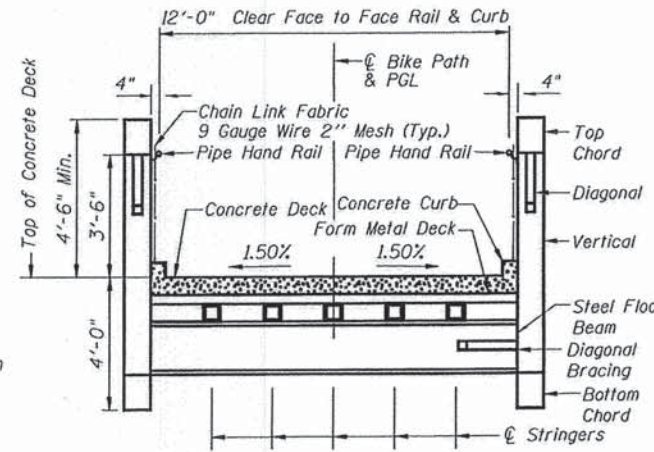
Design Scour Elevation (ft.)	N. Abut.	Pier 1	S. Abut.
	600.00	593.28	598.50

DESIGN STRESSES

f'c = 3,500 psi
 fy = 60,000 psi (Reinf.)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S₀₁) = 0.09g
 Design Spectral Acceleration at 0.2 sec. (S₀₂) = 0.158g
 Soil Site Class = D



PEDESTRIAN TRUSS TYPICAL CROSS-SECTION

INDEX OF DRAWINGS

- SA-1 General Plan & Elevation
- SA-2 Deck Elevations, T.B.O.M. and Miscellaneous Details
- SA-3 Deck Joint Details
- SA-4 North Abutment
- SA-5 South Abutment
- SA-6 Pier
- SA-7 HP Pile Details
- SA-8 Boring Logs
- SA-9 Boring Logs

LEGEND

- Tree Removal (See Bike Path Plans)
- Tree to Remain
- Soil Boring



Theodore P. Georgas 6-17-15
 THEODORE P. GEORGAS DATE
 LICENSED STRUCTURAL ENGINEER
 STATE OF ILLINOIS 081-004609
 EXPIRES 11/30/2016

GENERAL NOTES

All structural steel shall be AASHTO M 270 Grade 50W (except expansion joints which shall be AASHTO M 270 Grade 50).

All structural steel and exposed surfaces of bearings within a distance of 10 ft. each way from the deck joints shall be painted as specified in Section 506 of the Standard Specifications.

Reinforcement bars designated (E) shall be epoxy coated.

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts (in painted areas and ASTM A325 Type 3 in unpainted areas).

No field welding is permitted except as specified in the contract documents.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Concrete Sealer shall be applied to all exposed surfaces of abutments and piers.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

The work included under Pedestrian Truss Superstructure shall consist of furnishing, fabricating, transporting, erecting, painting as specified, metal decking, concrete, bearings, anchor bolts, wire mesh fence and attachments, and any other item of work to complete the work.

Before fabrication, the Contractor shall submit structural calculations and shop drawings signed and stamped by an Illinois registered Structural Engineer to the Engineer for review and approval, as per Standard Specifications, Section 505.

A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

	REACTION TABLE					
	P (k)		H (k)		L (k)	
Span	1	2	1	2	1	2
Dead Load	68.93	72.78				
Uniform Live Load	48.60	51.30				
Vehicle Load	10.00	10.00				
Wind Uplift (20 psf)	(-)18.90	(-)19.95				
Wind	+21.38	+22.79	37.80	39.90		
Thermal					10.34	10.92

Loads are provided by a fabricator and for reference only.
 (-) Indicates uplift load
 P = Vertical Load at Each Bearing
 H = Horizontal Load at Each Footing
 L = Longitudinal Load at Each Bearing



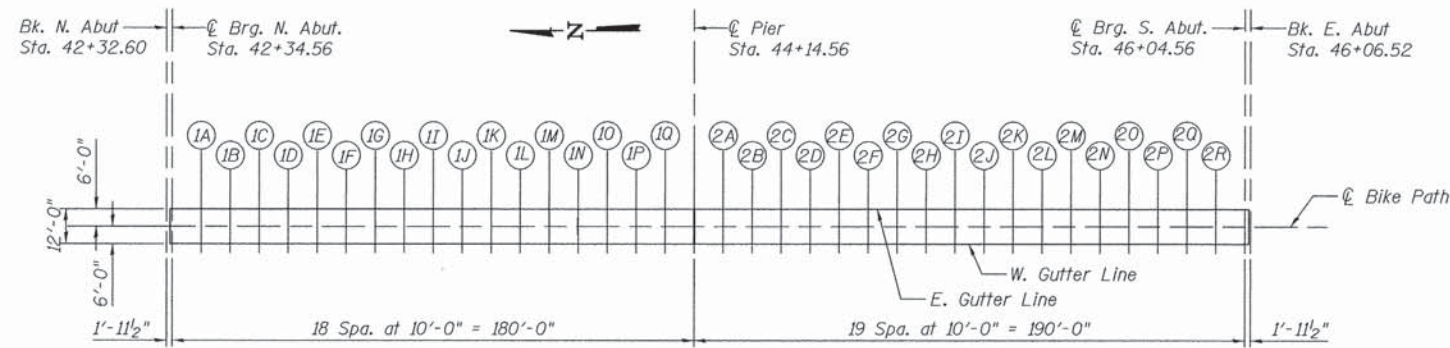
**GENERAL PLAN & ELEVATION
 NORTH BRANCH TRAIL OVER
 THE NORTH BRANCH CHICAGO RIVER
 SECTION 08-F3000-21-BT
 COOK COUNTY
 STATION 44+24.56
 STRUCTURE NUMBER 016-P017**

	USER NAME = #USER#	DESIGNED - MMZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016-P017 SHEET NO. SA-1 OF SA-9 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	DRAWN - MMZ	REVISED -			08-F3000-21-BT	COOK	98	33	
	PLOT DATE = #DATE#	CHECKED - JPM/JMMH/TPG	REVISED -			CONTRACT NO. 61A86				
	DATE - 10/20/2014	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

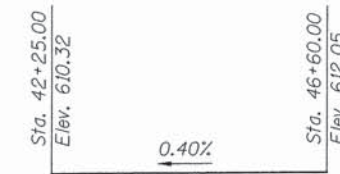
TOP OF DECK ELEVATIONS

(Final elevations, not adjusted for DL deflection)

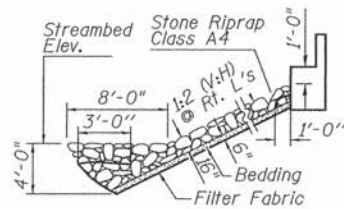
Location	Station	℄ Line	E./W. Gutter
Bk. N. Abut.	42+32.60	610.35	610.26
℄ Brg. N. Abut.	42+34.56	610.36	610.27
1A	42+44.56	610.40	610.31
1B	42+54.56	610.44	610.35
1C	42+64.56	610.48	610.39
1D	42+74.56	610.52	610.43
1E	42+84.56	610.56	610.47
1F	42+94.56	610.60	610.51
1G	43+04.56	610.64	610.55
1H	43+14.56	610.68	610.59
1I	43+24.56	610.72	610.63
1J	43+34.56	610.76	610.67
1K	43+44.56	610.80	610.71
1L	43+54.56	610.84	610.75
1M	43+64.56	610.88	610.79
1N	43+74.56	610.91	610.82
1O	43+84.56	610.95	610.86
1P	43+94.56	610.99	610.90
1Q	44+04.56	611.03	610.94
℄ Pier	44+14.56	611.07	610.98
2A	44+24.56	611.11	611.02
2B	44+34.56	611.15	611.06
2C	44+44.56	611.19	611.10
2D	44+54.56	611.23	611.14
2E	44+64.56	611.27	611.18
2F	44+74.56	611.31	611.22
2G	44+84.56	611.35	611.26
2H	44+94.56	611.39	611.30
2I	45+04.56	611.43	611.34
2J	45+14.56	611.47	611.38
2K	45+24.56	611.51	611.42
2L	45+34.56	611.55	611.46
2M	45+44.56	611.59	611.50
2N	45+54.56	611.63	611.54
2O	45+64.56	611.67	611.58
2P	45+74.56	611.71	611.62
2Q	45+84.56	611.75	611.66
2R	45+94.56	611.79	611.70
℄ Brg. S. Abut.	46+04.56	611.83	611.74
Bk. S. Abut.	46+06.52	611.84	611.75



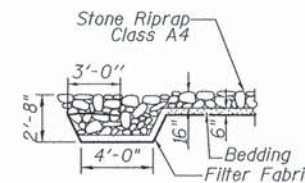
TOP OF DECK PLAN



BIKE TRAIL VERTICAL PROFILE



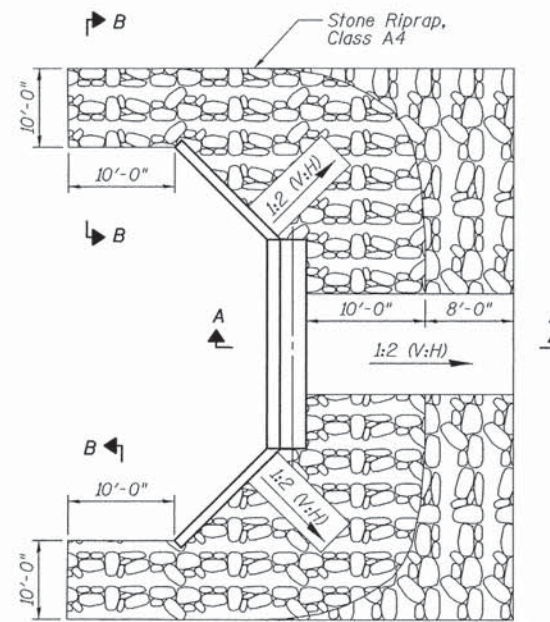
RIP RAP SECTION A-A ANCHOR DETAIL



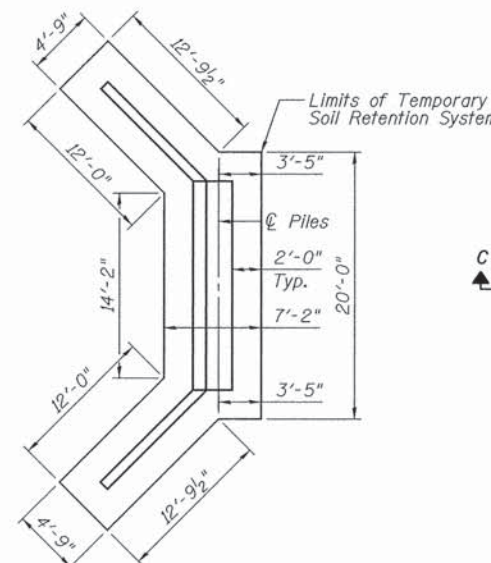
RIP RAP SECTION B-B FLANK DETAILS

TOTAL BILL OF MATERIAL

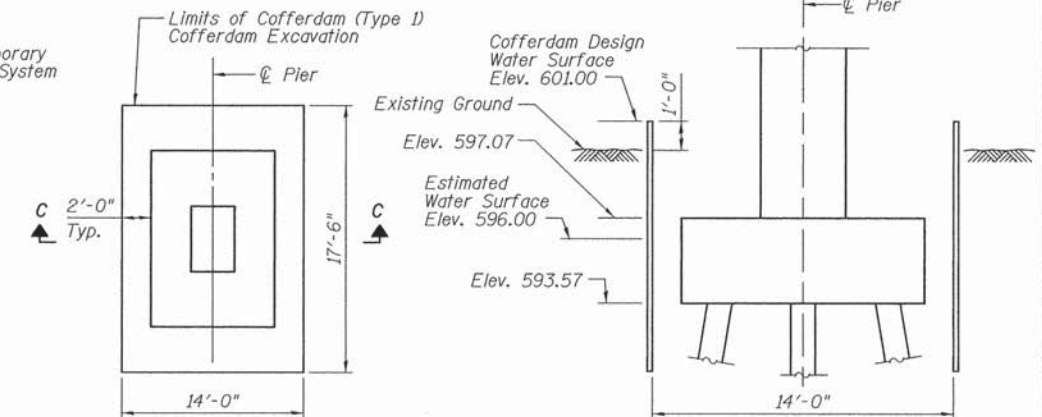
ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.	-	317	317
Filter Fabric	Sq. Yd.	-	317	317
Structure Excavation	Cu. Yd.	-	91	91
Concrete Structures	Cu. Yd.	-	64.3	64.3
Reinforcement Bars, Epoxy Coated	Pound	-	11,140	11,140
Furnishing Steel Piles HP12x53	Foot	-	376	376
Furnishing Steel Piles HP12x63	Foot	-	204	204
Driving Piles	Foot	-	580	580
Test Pile Steel HP12x53	Each	-	1	1
Test Pile Steel HP12x63	Each	-	2	2
Pile Shoes	Each	-	15	15
Preformed Joint Strip Seal	Foot	39	-	39
Concrete Sealer	Sq. Ft.	-	805	805
Pedestrian Truss Superstructure	Sq. Ft.	5,550	-	5,550
Temporary Soil Retention System	Sq. Ft.	-	809	809
Cofferdam Excavation	Cu. Yd.	-	59	59
Cofferdam (Type I)	Each	-	1	1



TYPICAL SLOPE PROTECTION LAYOUT AT ABUTMENTS



TEMPORARY SOIL RETENTION LIMITS AT ABUTMENTS



COFFERDAM LIMITS AT PIER

SECTION C-C

Note:
It is the Contractor's responsibility to provide a design of the cofferdam, which is shown in this plan, and all the appurtenances required and must be submitted to the Engineer for review and approval.

FILE NAME = #FILE#



USER NAME = #USER#
DESIGNED - MMZ
DRAWN - MMZ
CHECKED - JPM/MMH/TPG
PLOT SCALE = #SCALE#
PLOT DATE = #DATE#

DESIGNED - MMZ
DRAWN - MMZ
CHECKED - JPM/MMH/TPG
DATE - 10/20/2014

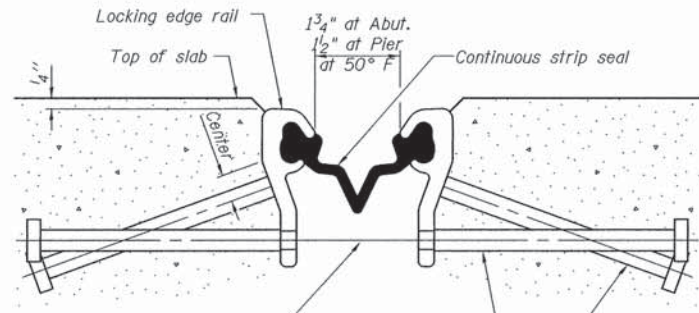
DESIGNED -
DRAWN -
CHECKED -
DATE -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK ELEVATIONS, T.B.O.M. & MISCELLANEOUS DETAILS
STRUCTURE NO. 016-P017

SHEET NO. SA-2 OF SA-9 SHEETS

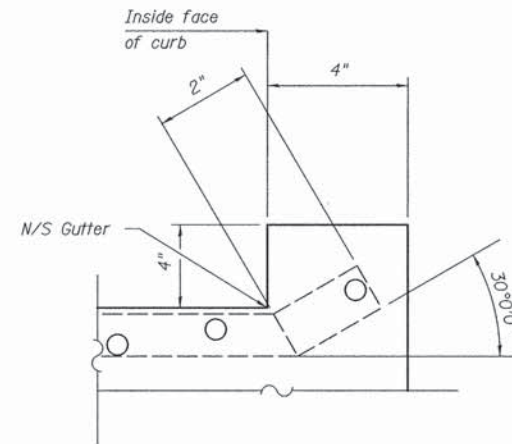
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	34
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A86	



7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

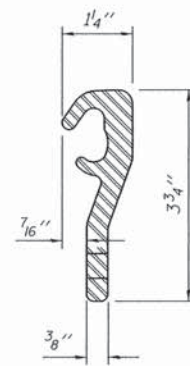
Place 1/2" ϕ x 6" granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded at 1'-0" alt. cts.

SECTION THRU EXPANSION STRIP SEAL JOINT

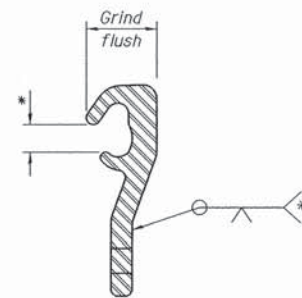


EXPANSION JOINT AT CURB

(Showing plate)
(N.T.S)



LOCKING EDGE RAIL



LOCKING EDGE RAIL SPLICE

* Omit weld at seal opening.

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.

The inside of the Locking Edge Rail groove shall be free of weld residue. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

The manufacturer's recommended installation methods shall be followed. All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	39

Note:

Preformed Joint Strip Seal shall be installed on both abutment expansion joints.

FILE NAME = #FILE#



USER NAME = #USER#	DESIGNED - MMZ	REVISED -
PLOT SCALE = #SCALE#	DRAWN - MMZ	REVISED -
PLOT DATE = #DATE#	CHECKED - JPM/MMH/TPG	REVISED -
	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK JOINT DETAILS
STRUCTURE NO. 016-P017

SHEET NO. SA-3 OF SA-9 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	35
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61A86	

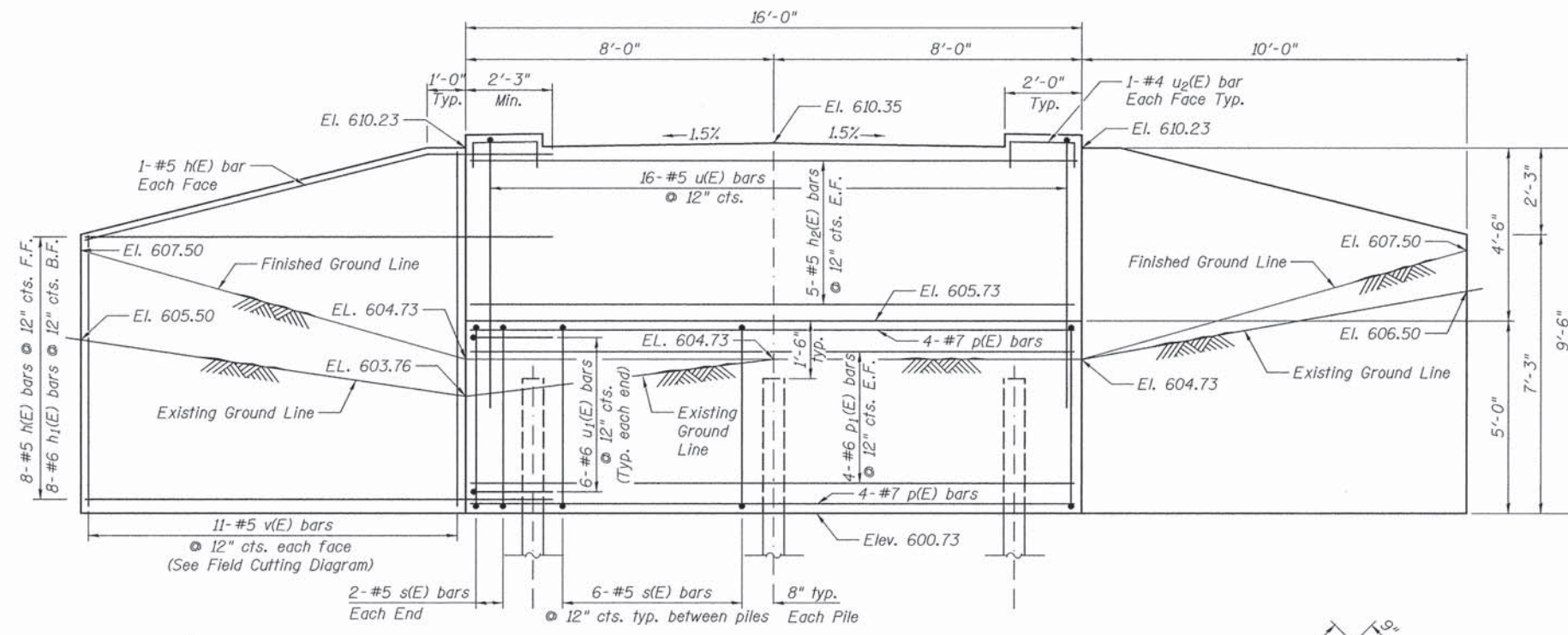
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	20	#5	12'-6"	
h ₁ (E)	16	#6	13'-3"	
h ₂ (E)	10	#5	15'-8"	
p(E)	8	#7	15'-8"	
p ₁ (E)	8	#6	15'-8"	
s(E)	16	#5	15'-9"	
u(E)	17	#5	14'-4"	
u ₁ (E)	12	#6	8'-9"	
u ₂ (E)	4	#4	3'-8"	
v(E)	22	#5	15'-11"	
Structure Excavation			Cu. Yd.	42
Concrete Structures			Cu. Yd.	17.0
Reinforcement Bars, Epoxy Coated			Pound	2,240
Furnishing Steel Piles HP 12x63			Foot	102
Driving Piles			Foot	102
Test Pile Steel HP 12x63			Each	1
Pile Shoes			Each	3
Concrete Sealer			Sq. Ft.	234
Temporary Soil Retention System			Sq. Ft.	384

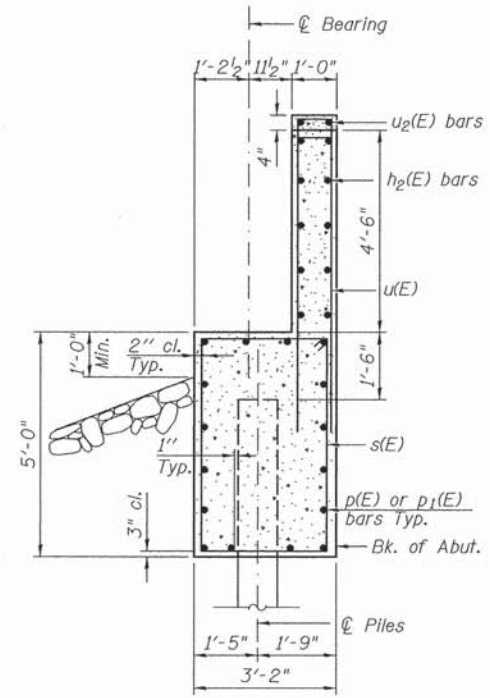
Note:
 F.F. = Front Face
 B.F. = Back Face
 E.F. = Each Face

PILE DATA

Type: Steel HP 12x63 with pile shoes
 Nominal Required Bearing: 392 kips
 Factored Resistance Available: 215 kips
 Est. Length: 51 ft
 No. Production Piles: 2
 No. Test Piles: 1



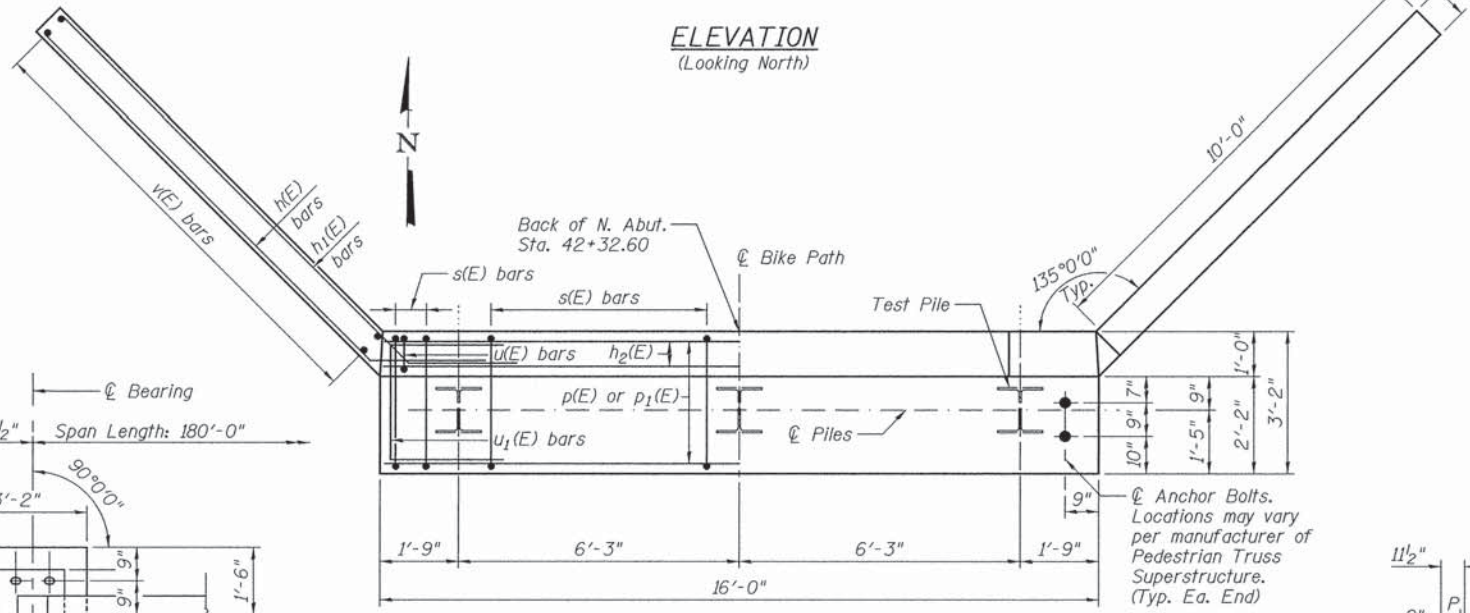
ELEVATION
(Looking North)



SEC. THRU ABUT.

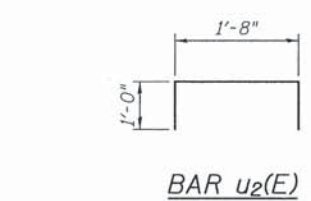
MINIMUM BAR LAP

#5 = 2'-6"
 #6 = 3'-0"

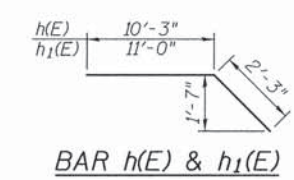


PLAN

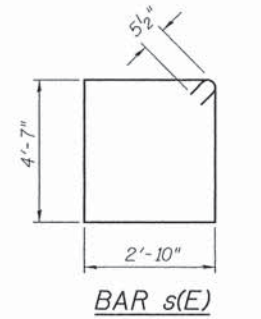
*Dimensions are based on Contech's information only and may vary depending on final manufacturer. (See Special Provisions)



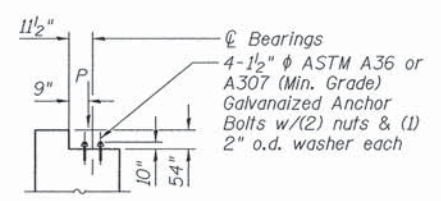
BAR u₂(E)



BAR h(E) & h₁(E)

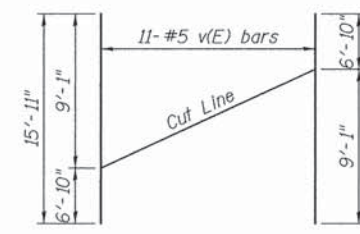


BAR s(E)



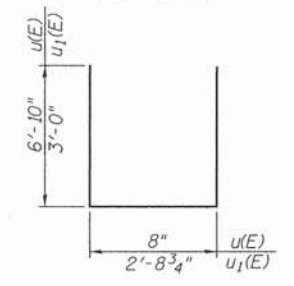
ANCHOR BOLT ELEVATION*

Cost of Anchor Bolts is included in "Pedestrian Truss Superstructure"



FIELD CUTTING DIAGRAM

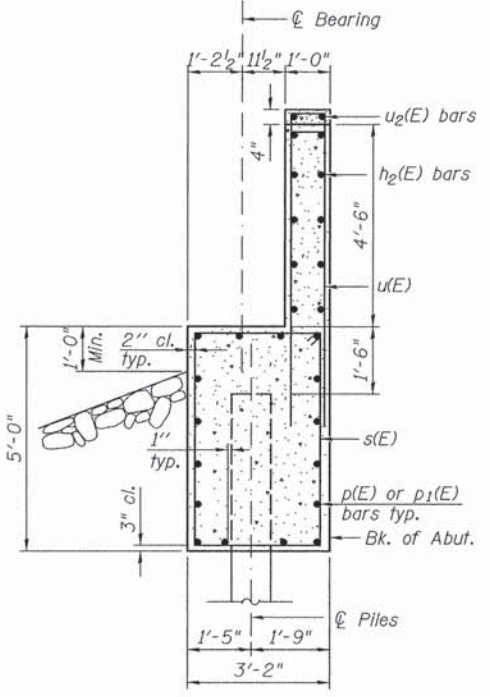
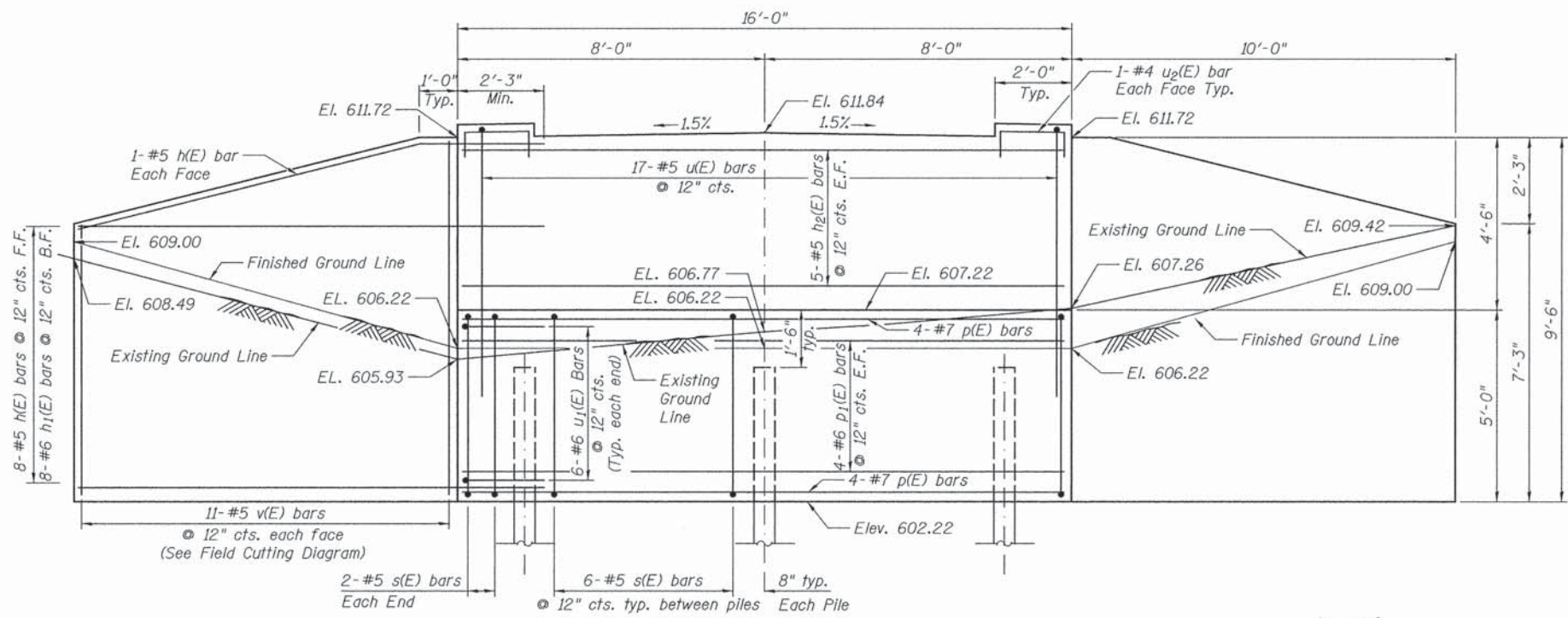
Order v(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR u(E), u₁(E)

BEARING ASSEMBLY PLAN*
Typ. Each Corner

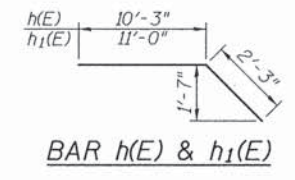
<p>1885 Wacker Drive, Suite 700 - Chicago, IL 60601 - P: 312.209.0110 - F: 312.209.0415</p>	USER NAME = #USER#	DESIGNED - MMZ	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p align="center">NORTH ABUTMENT STRUCTURE NO. 016-P017</p> <p align="center">SHEET NO. SA-4 OF SA-9 SHEETS</p>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = #SCALE#	DRAWN - MMZ	REVISED -			08-F3000-21-BT	COOK	98	36	
	PLOT DATE = #DATE#	CHECKED - JPM//MMH/TPG	REVISED -							
		DATE - 10/20/2014	REVISED -							
					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A86	



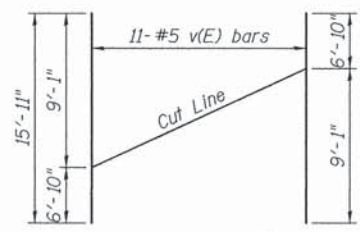
SEC. THRU ABUT.

MINIMUM BAR LAP

- #5 = 2'-6"
- #6 = 3'-0"



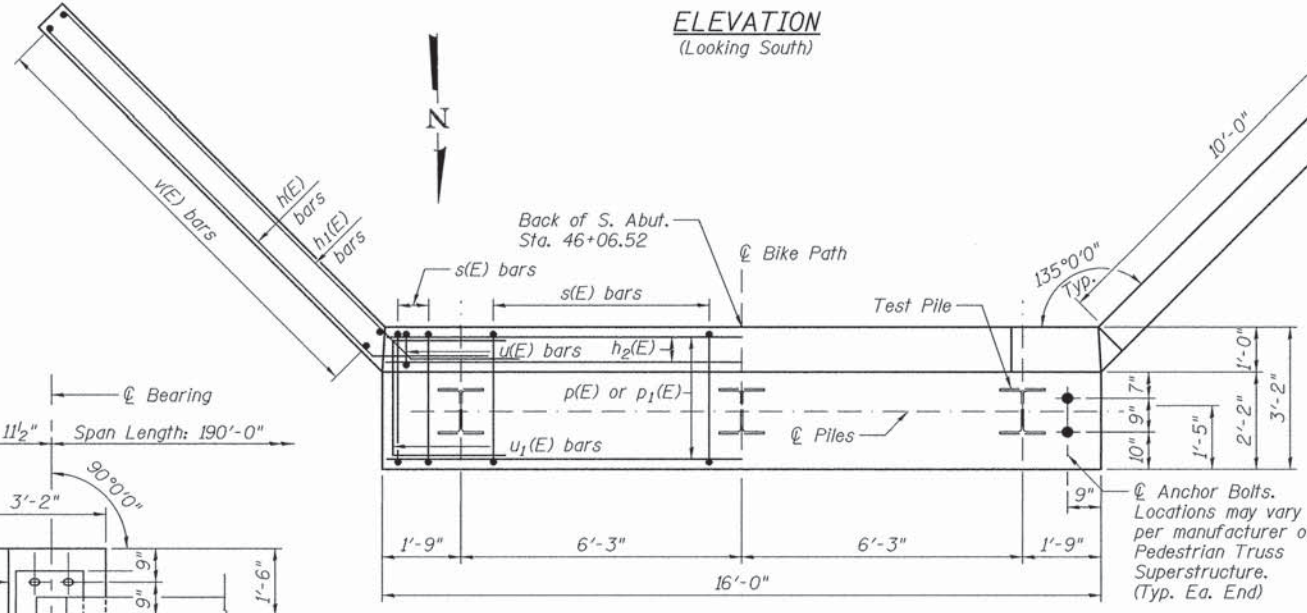
BAR h(E) & h1(E)



FIELD CUTTING DIAGRAM

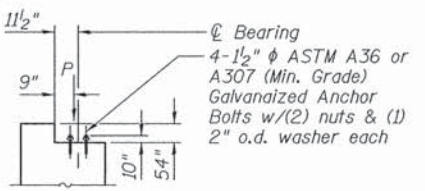
Order v(E) full length. Cut as shown and use remainder of bars in opposite face.

BAR u(E), u1(E)



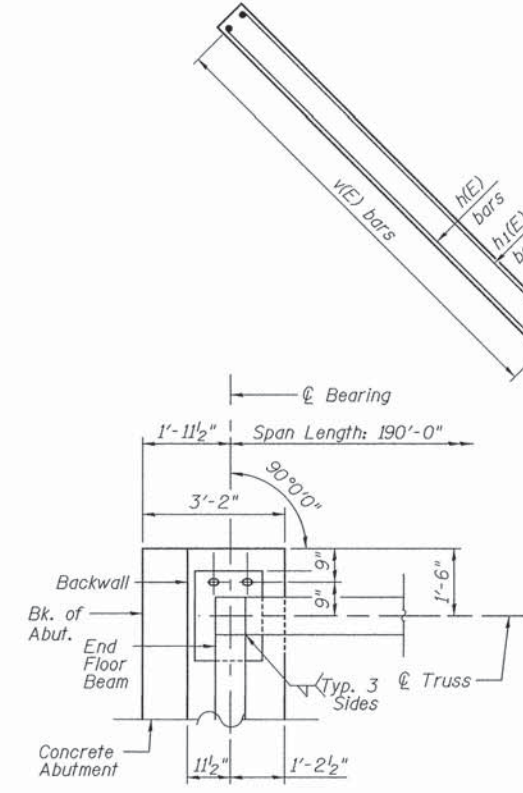
ELEVATION (Looking South)

REINFORCEMENT SHOWN PLAN DIMENSIONS SHOWN



ANCHOR BOLT ELEVATION*

Cost of Anchor Bolts is included in "Pedestrian Truss Superstructure"



BEARING ASSEMBLY PLAN*

Typ. Each Corner

*Dimensions are based on Contech's information only and may vary depending on final manufacturer. (See Special Provisions)

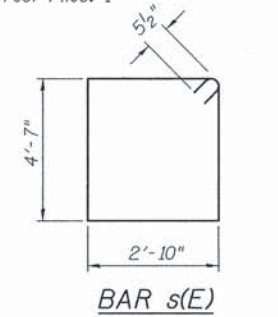
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	20	#5	12'-6"	
h1(E)	16	#6	13'-3"	
h2(E)	10	#5	15'-8"	
p(E)	8	#7	15'-8"	
p1(E)	8	#6	15'-8"	
s(E)	16	#5	15'-9"	
u(E)	17	#5	14'-4"	
u1(E)	12	#6	8'-9"	
u2(E)	4	#4	3'-8"	
v(E)	22	#5	15'-11"	
Structure Excavation Cu. Yd. 49				
Concrete Structures Cu. Yd. 17.0				
Reinforcement Bars, Epoxy Coated Pound 2,240				
Furnishing Steel Piles HP 12x63 Foot 102				
Driving Piles Foot 102				
Test Pile Steel HP 12x63 Each 1				
Pile Shoes Each 3				
Concrete Sealer Sq. Ft. 234				
Temporary Soil Retention System Sq. Ft. 425				

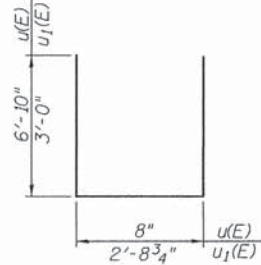
Note:
 F.F. = Front Face
 B.F. = Back Face
 E.F. = Each Face

PILE DATA

Type: Steel HP 12x63 with pile shoes
 Nominal Required Bearing: 392 kips
 Factored Resistance Available: 215 kips
 Est. Length: 51 ft
 No. Production Piles: 2
 No. Test Piles: 1



BAR s(E)



BAR u(E), u1(E)



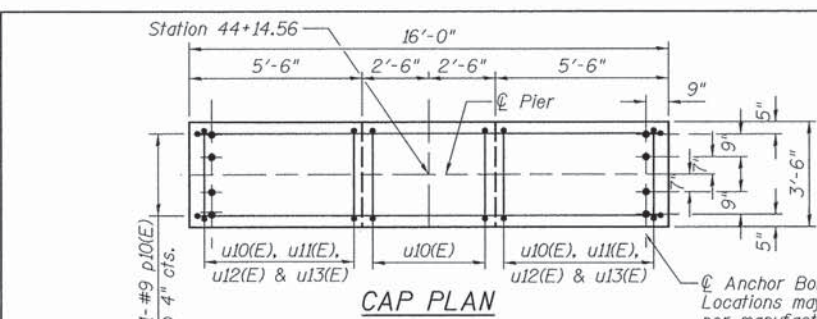
USER NAME = #USER#	DESIGNED - MMZ	REVISED -
PLOT SCALE = #SCALE#	DRAWN - MMZ	REVISED -
PLOT DATE = #DATE#	CHECKED - JPM/MMH/TPG	REVISED -
	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

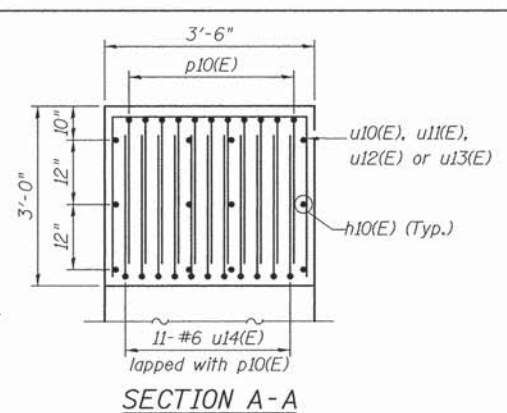
SOUTH ABUTMENT
 STRUCTURE NO. 016-P017

SHEET NO. SA-5 OF SA-9 SHEETS

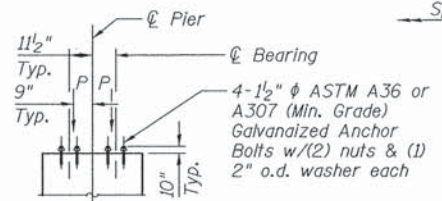
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	37
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A86	



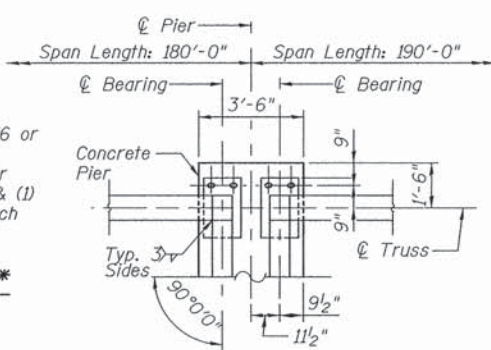
CAP PLAN



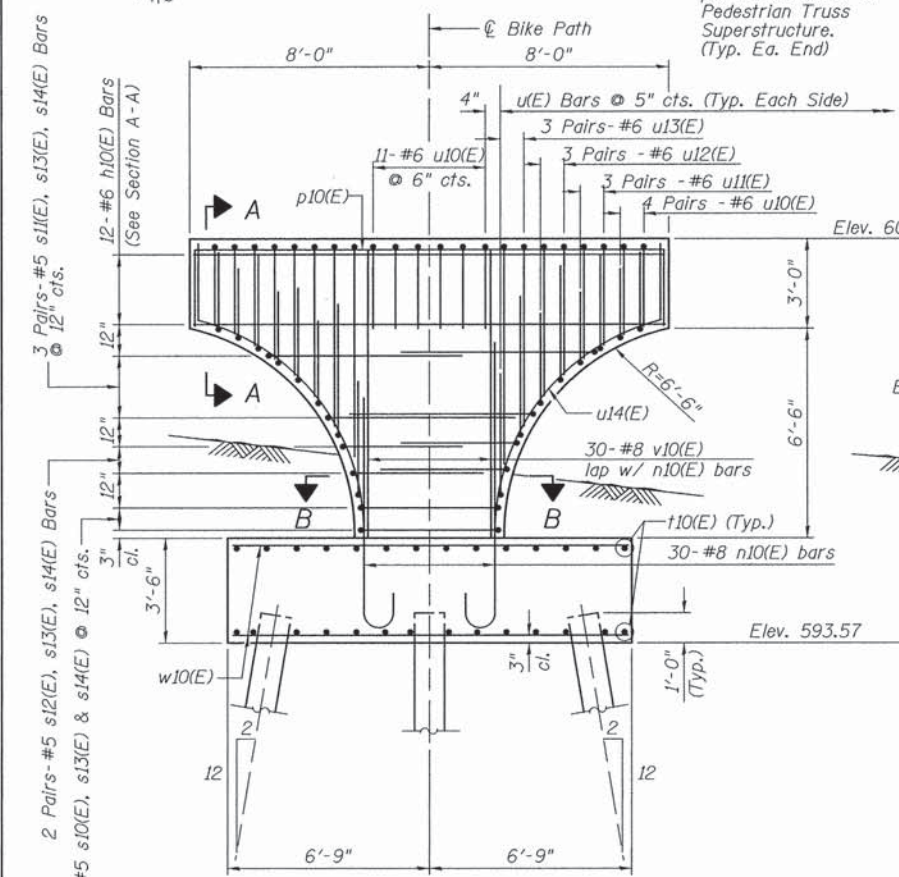
SECTION A-A



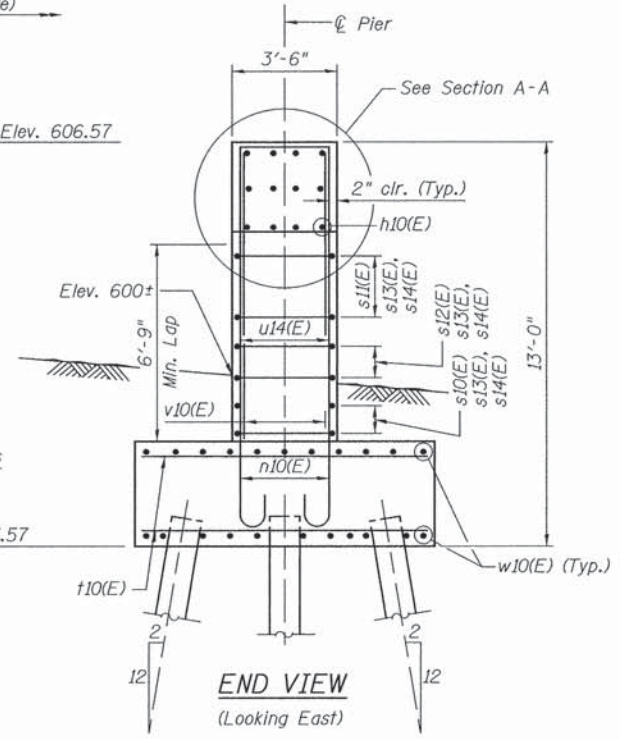
ANCHOR BOLT ELEVATION*



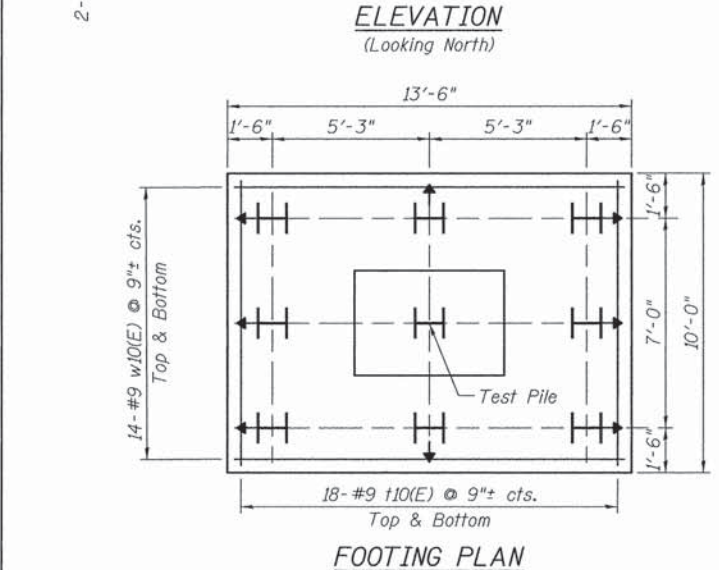
BEARING ASSEMBLY PLAN*



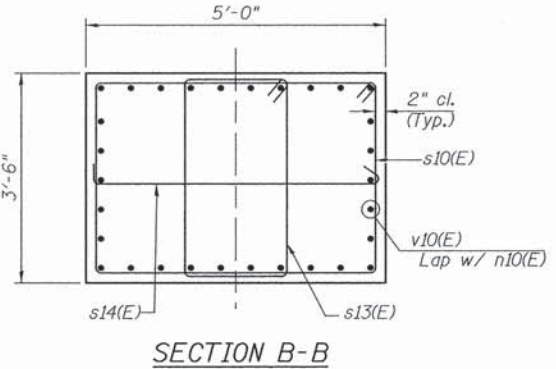
ELEVATION (Looking North)



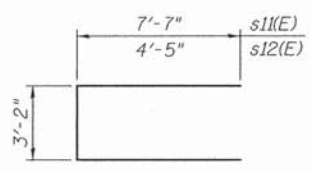
END VIEW (Looking East)



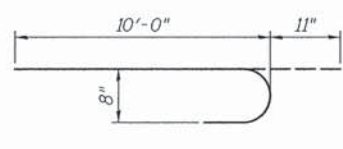
FOOTING PLAN



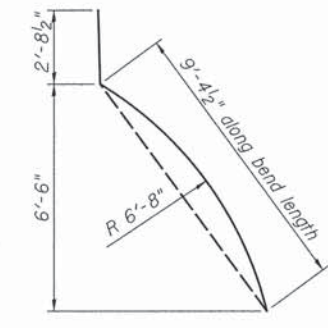
SECTION B-B



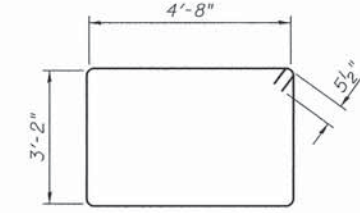
BARS s11(E) & s12(E)



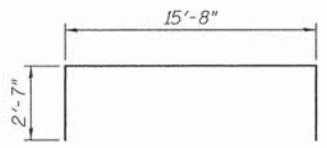
BAR n10(E)



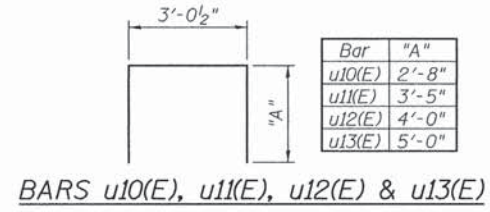
BAR u14(E)



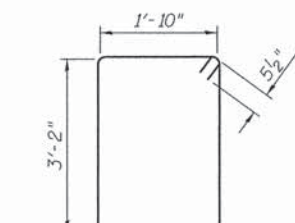
BAR s10(E)



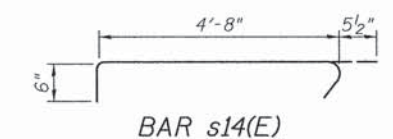
BAR p10(E)



BARS u10(E), u11(E), u12(E) & u13(E)



BAR s13(E)



BAR s14(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h10(E)	12	#6	15'-8"	—
n10(E)	30	#8	10'-11"	—
p10(E)	11	#9	20'-10"	—
s10(E)	2	#5	16'-7"	—
s11(E)	6	#5	18'-4"	—
s12(E)	4	#5	12'-0"	—
s13(E)	7	#5	10'-11"	—
s14(E)	7	#5	5'-8"	—
t10(E)	36	#9	9'-8"	—
u10(E)	16	#6	8'-5"	—
u11(E)	12	#6	9'-11"	—
u12(E)	12	#6	11'-1"	—
u13(E)	12	#6	13'-1"	—
u14(E)	22	#6	12'-1"	—
v10(E)	30	#8	9'-4"	—
w10(E)	28	#9	13'-2"	—
Concrete Structures	Cu. Yd.	30.2		
Reinforcement Bars, Epoxy Coated	Pound	6,660		
Furnishing Steel Piles HP12x53	Foot	376		
Driving Piles	Foot	376		
Test Pile Steel HP12x53	Each	1		
Pile Shoes	Each	9		
Concrete Sealer	Sq. Ft.	337		
Cofferdam Excavation	Cu. Yd.	59		
Cofferdam (Type 2)	Each	1		

NOTES:

1. Concrete clear cover shall be 2" minimum unless noted otherwise.
2. All edges have standard 3/4" chamfers except as noted.
3. Space Reinforcement in Cap to miss Anchor Bolts.
4. Min. Lap for Bar #5 = 2'-6", #6 = 3'-0", #8 = 6'-9"

PILE DATA

Type: Steel HP12x53 with pile shoes
 Nominal Required Bearing: 388 kips
 Factored Resistance Available: 214 kips
 Est. Length: 47 ft
 No. Production Piles: 8 per pier
 No. Test Piles: 1 per pier

LEGEND

E.F. = Each Face
 - Battered Pile

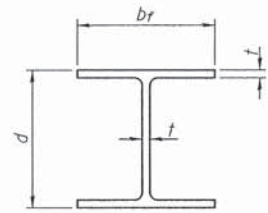


USER NAME = #USER#	DESIGNED - MMZ	REVISED -
PLOT SCALE = #SCALE#	DRAWN - MMZ	REVISED -
PLOT DATE = #DATE#	CHECKED - JPM/MMH/TPG	REVISED -
	DATE - 10/20/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

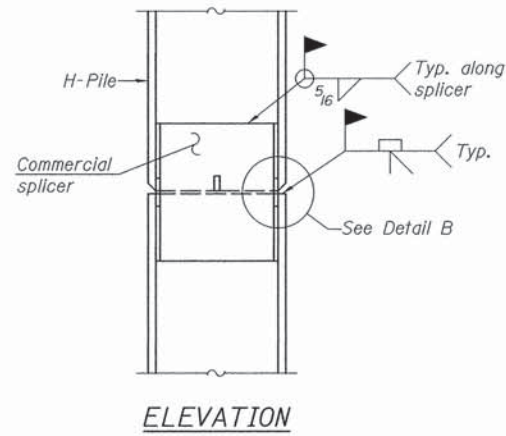
**PIER
 STRUCTURE NO. 016-P017
 SHEET NO. SA-6 OF SA-9 SHEETS**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	38
			CONTRACT NO. 61A86	
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

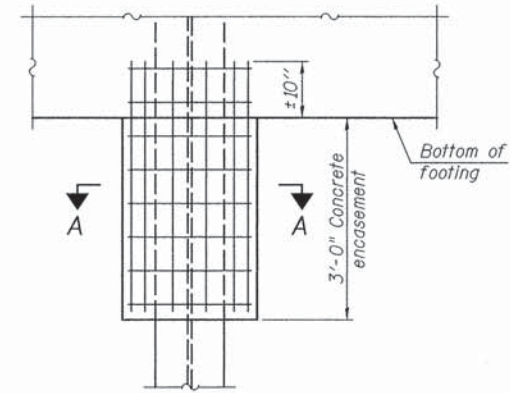


STEEL PILE TABLE

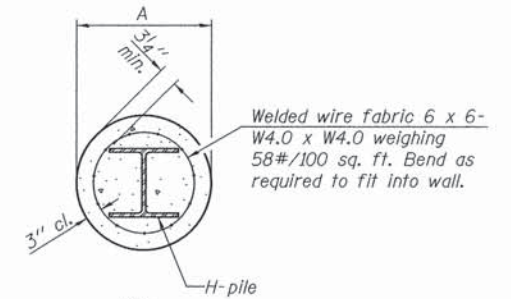
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11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



ELEVATION

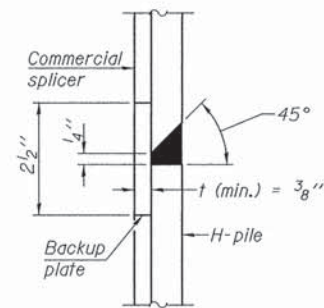


SECTION A-A

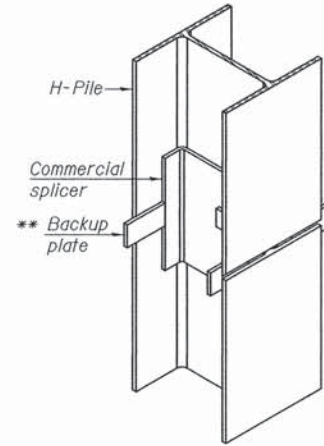
Note:
Forms for encasement may be omitted when soil conditions permit.

PILE ENCASEMENT

Note:
Concrete, reinforcement bars and welded wire fabric are incidental to Furnishing Steel Piles.

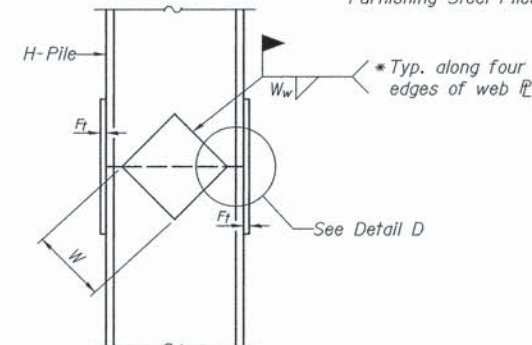


DETAIL "B"

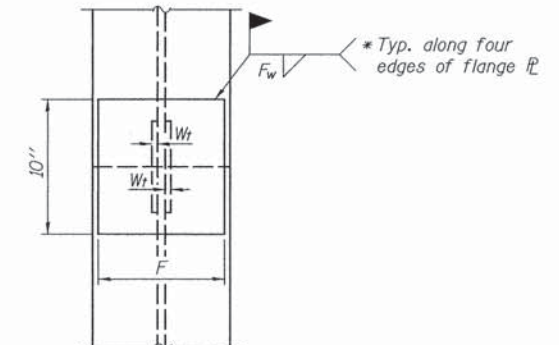


ISOMETRIC VIEW

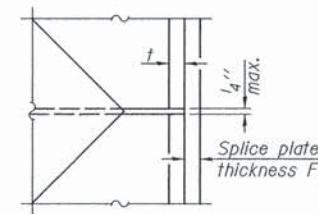
WELDED COMMERCIAL SPLICE



ELEVATION



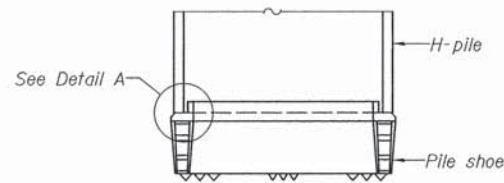
END VIEW



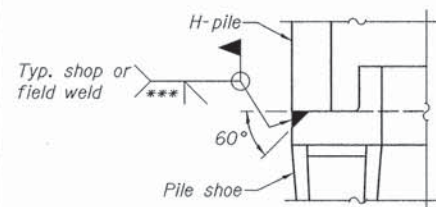
DETAIL D

WELDED PLATE FIELD SPLICE

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

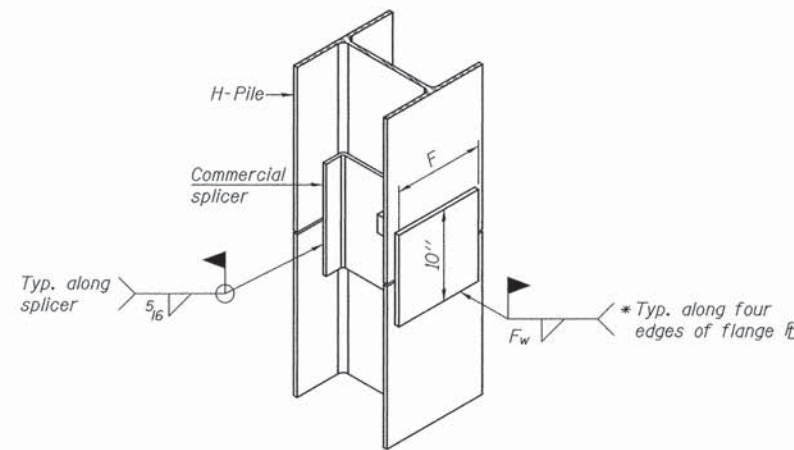


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



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.).

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

FILE NAME = #FILE#
Primera
 185 S. Wacker Drive, Suite 700 - Chicago, IL 60606 - P 312.954.8918 - F 312.954.9415

USER NAME = #USER#	DESIGNED - MMZ	REVISED -
PLOT SCALE = #SCALE#	DRAWN - MMZ	REVISED -
PLOT DATE = #DATE#	CHECKED - JPM//MMH/TPG	REVISED -
	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 016-P017
SHEET NO. SA-7 OF SA-9 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	39
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 61A86		

S.A.M. Consultants, Inc.
Geotechnical Engineering & Materials Testing
DISA/MS/IRM

BORING NUMBER B-5
PAGE 1 OF 2

CLIENT URS Corporation PROJECT NAME North Branch Bicycle Trail Extension Project
 PROJECT NUMBER SAM - 12014GT PROJECT LOCATION Cook County Forest Preserve, Chicago, Illinois
 DATE STARTED 12/18/12 COMPLETED 12/18/12 GROUND ELEVATION 598.0 ft URS P/NOLE SIZE 6 inch
 DRILLING CONTRACTOR K & S Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Augurs AT TIME OF DRILLING 4.0 ft / Elev 594.0 ft
 LOGGED BY DM CHECKED BY AR AT END OF DRILLING 3.0 ft / Elev 595.0 ft
 NOTES Near Pier #1 of proposed North Branch Chicago River Bridge AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (ROD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	ATTERBERG LIMITS			
								LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	FINES CONTENT (%)
0		TOPSOIL - dark gray and dark brown; soft to medium stiff	SS 1		4-5-4 (9)	3.0	49				
		SILTY SANDY CLAY; brown; wet; soft (CLS)	SS 2		2-1-1 (2)		11				
		SILTY SAND; brownish gray; wet; loose (SM)	SS 3		1-2-1 (3)		25				
		LEAN CLAY with trace of sand and gravel; brown to gray; moist to wet; soft to medium stiff - (CL)	SS 4		2-4-7 (11)	1.25	27				
			SS 5		3-4-8 (12)	2.75	17				
			SS 6		4-7-11 (18)	4.0	15				
			SS 7		4-7-9 (16)	3.75	13				
			SS 8		4-5-8 (13)	4.0	20				
			SS 9		4-6-4 (10)	3.25	16				
			SS 10		4-5-8 (13)	2.5	13				
		CLAY with sand and gravel; brown; moist; medium stiff - (CLS)	SS		5-8-9 (3)	3.0	21				

(Continued Next Page)

S.A.M. Consultants, Inc.
Geotechnical Engineering & Materials Testing
DISA/MS/IRM

BORING NUMBER B-5
PAGE 2 OF 2

CLIENT URS Corporation PROJECT NAME North Branch Bicycle Trail Extension Project
 PROJECT NUMBER SAM - 12014GT PROJECT LOCATION Cook County Forest Preserve, Chicago, Illinois

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (ROD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	ATTERBERG LIMITS			
								LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	FINES CONTENT (%)
35		CLAY with sand and gravel; brown; moist; medium stiff - (CLS) (continued)	SS 11		(17)						
40		LEAN CLAY with traces of sand & gravel; grayish brown; moist; very stiff - (CL with sand)	SS 12		27-27-35 (62)	4.5	16				
45			SS 13		28-32-39 (71)	4.5	11				
50		CLAYEY SAND - brown; very moist; very stiff to hard - (SC)	SS 14		32-35-40 (75)	3.5	11				
55		Possible SANDSTONE - Refusal at 55.75' Bottom of hole at 55.5 feet.	SS 15		40-50/2"						

GEOTECH IN COLUMNS - 12/18/12 - COOK COUNTY FOREST PRESERVE - URS.GPJ (INT.US) LAB.GDT 1/7/13

S.A.M. Consultants, Inc.
Geotechnical Engineering & Materials Testing
DISA/MS/IRM

BORING NUMBER B-6
PAGE 1 OF 2

CLIENT URS Corporation PROJECT NAME North Branch Bicycle Trail Extension Project
 PROJECT NUMBER SAM - 12014GT PROJECT LOCATION Cook County Forest Preserve, Chicago, Illinois
 DATE STARTED 12/20/12 COMPLETED 12/20/12 GROUND ELEVATION 610.0 ft URS P/NOLE SIZE 6 inch
 DRILLING CONTRACTOR K & S Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Augurs AT TIME OF DRILLING ---
 LOGGED BY DM CHECKED BY AR AT END OF DRILLING ---
 NOTES Near North abutment of proposed bridge over North Branch Chicago RivAFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (ROD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	ATTERBERG LIMITS			
								LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	FINES CONTENT (%)
0		6" TOPSOIL	SS 1		6-9-11 (20)	4.5	31				
		SILTY CLAY; brown and gray; moist; stiff; (CL-ML)	SS 2		9-11-12 (23)	4.5	14				
			SS 3		8-12-17 (28)	4.5	14				
			SS 4		8-11-17 (28)	4.5	28	37	20	17	
		LEAN CLAY; gray brown; moist; stiff; - (CL)	SS 5		4-9-12 (21)	4.5	17				
			SS 6		8-9-13 (22)	4.5	18				
		SAND with clay and gravel; gray; moist to very moist; dense; - (SP)	SS 7		9-10-12 (22)	4.5	17				
		SILTY CLAY with sand and gravel; gray; moist; medium stiff to very stiff; - (CL-ML)	SS 8		10-11-11 (22)		16				
			SS 9		5-8-12 (20)	3.5	16				
			SS 10		8-10-13 (23)	4.0	18				
			SS		4-10-14	3.25	15				

(Continued Next Page)



USER NAME = #USER#	DESIGNED - MMZ	REVISED -
PLOT SCALE = #SCALE#	DRAWN - MMZ	REVISED -
PLOT DATE = #DATE#	CHECKED - JPM//MMH/TPG	REVISED -
	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 1
STRUCTURE NO. 016-P017
SHEET NO. SA-8 OF SA-9 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	40
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FILE NAME = #FILE#

CLIENT URS Corporation PROJECT NAME North Branch Bicycle Trail Extension Project
PROJECT NUMBER SAM - 12014GT PROJECT LOCATION Cook County Forest Preserve, Chicago, Illinois

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (ROD)	BLOW COUNTS (N VALUE)	POCKET PEN. (lbf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS		FINES CONTENT (%)
									LIQUID LIMIT	PLASTICITY INDEX	
35		SILTY CLAY with sand and gravel; gray; moist; medium stiff to very stiff - (CL-ML) (continued)	SS 11		(24)						
40			SS 12		3-8-8 (18)	3.25		24			
45			SS 13		5-9-11 (20)	3.5		21			
50			SS 14		14-15-26 (41)	3.75		11			
60		SILTY SAND & GRAVEL; gray and brown; wet; very dense to hard; - (SPG)	SS 15		17-19-25 (44)	3.0		11			
65		Refusal at 70.5'									
70		Bottom of hole at 70.5 feet.	SS 16		33-35-34 (69)	1.5					

CLIENT URS Corporation PROJECT NAME North Branch Bicycle Trail Extension Project
PROJECT NUMBER SAM - 12014GT PROJECT LOCATION Cook County Forest Preserve, Chicago, Illinois

DATE STARTED 12/21/12 COMPLETED 12/21/12 GROUND ELEVATION 599.5 ft URS Pinhole Size 6 inch
DRILLING CONTRACTOR K & S Drilling GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Augurs AT TIME OF DRILLING ---
LOGGED BY DM CHECKED BY AR AT END OF DRILLING ---
NOTES Near South abutment of proposed North Branch Chicago River Bridge. AFTER DRILLING

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (ROD)	BLOW COUNTS (N VALUE)	POCKET PEN. (lbf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS		FINES CONTENT (%)
									LIQUID LIMIT	PLASTICITY INDEX	
0		12" TOPSOIL	SS 1		3-3-4 (7)	1.0		42			
3		SILTY CLAY; brown and gray; moist to very moist; medium stiff - (CL-ML)	SS 2		3-4-6 (10)	2.5		15			
5		SILT; brownish gray; wet; very soft; (ML)	SS 3		2-2-2 (4)	0.25		22	28	15	13
10		LEAN CLAY with sand and gravel; brown; moist; stiff - (CL with sand and gravel)	SS 4		4-5-6 (11)	3.0		47			
12			SS 5		4-6-8 (14)	3.0		18			
14			SS 6		3-7-9 (16)	2.75		19			
16			SS 7		4-6-7 (13)	4.25		19			
20			SS 8		5-9-9 (18)	4.0		16			
25			SS 9		7-10-14 (24)	3.25		17			
30		SILT with traces of sand and gravel; gray; moist; stiff; - (ML with sand)	SS 10		7-13-13 (26)	3.0		11			
35			11		4-6-9	2.75		11			

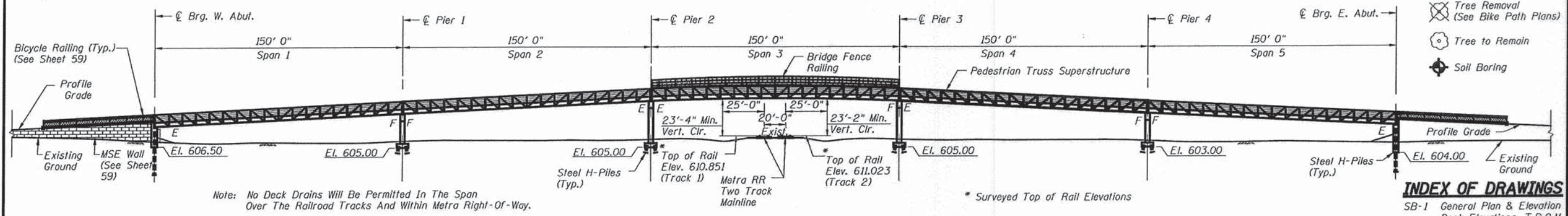
(Continued Next Page)

CLIENT URS Corporation PROJECT NAME North Branch Bicycle Trail Extension Project
PROJECT NUMBER SAM - 12014GT PROJECT LOCATION Cook County Forest Preserve, Chicago, Illinois

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (ROD)	BLOW COUNTS (N VALUE)	POCKET PEN. (lbf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS		FINES CONTENT (%)
									LIQUID LIMIT	PLASTICITY INDEX	
35		SILTY CLAY with traces of sand; moist; stiff - (CL-ML with sand)			(15)						
40			12		6-7-11 (18)	3.0		13			
45			13		5-8-8 (16)	2.75					
50			14		8-9-10 (19)	2.5		16			
60		SILTY SAND with gravel; grayish brown; damp; dense to very dense - (SM)	15		15-17-28 (40)	4.5		10			
65		SANDSTONE Refusal at 66.5'	16		10-37-50/4"			3			
		Bottom of hole at 66.5 feet.									

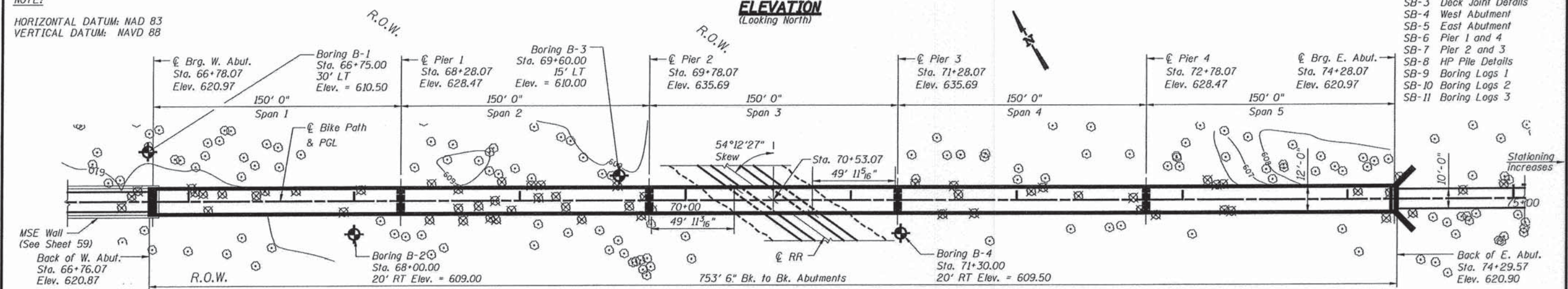
Benchmark: Control Point #11: STA. 60+13.06 Offset 20.79 ft LT N=1,938,383.445 E=1,139,423.252 EL=611.543
Existing Structure: None

- LEGEND**
- Tree Removal (See Bike Path Plans)
 - Tree to Remain
 - Soil Boring



NOTE:
HORIZONTAL DATUM: NAD 83
VERTICAL DATUM: NAVD 88

- INDEX OF DRAWINGS**
- SB-1 General Plan & Elevation Deck Elevations, T.B.O.M. and Miscellaneous Details
 - SB-2 Deck Joint Details
 - SB-3 West Abutment
 - SB-4 East Abutment
 - SB-5 Pier 1 and 4
 - SB-6 Pier 2 and 3
 - SB-7 HP Pile Details
 - SB-8 Boring Logs 1
 - SB-9 Boring Logs 2
 - SB-10 Boring Logs 3



GENERAL NOTES

All structural steel shall be AASHTO M 270 Grade 50W (except expansion joints which shall be AASHTO M 270 Grade 50).

All structural steel and exposed surfaces of bearings within a distance of 10 ft. each way from the deck joints shall be painted as specified in Section 506 of the Standard Specifications.

Reinforcement bars designated (E) shall be epoxy coated.

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts (painted areas and ASTM A325 Type 3 in unpainted areas).

No field welding is permitted except as specified in the contract documents.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Concrete Sealer shall be applied to all exposed surfaces of abutments and piers.

The work included under Pedestrian Truss Superstructure shall consist of furnishing, fabricating, transporting, erecting, painting as specified, metal decking, concrete, bearings, anchor bolts, bridge fence railing, wire mesh fence and attachments, and any other item of work to complete the work.

Before fabrication, the Contractor shall submit structural calculations and shop drawings signed and stamped by an Illinois registered Structural Engineer to the Engineer for review and approval, as per Standard Specifications, Section 505.

A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

DESIGN SPECIFICATIONS LIVE LOADING

2012 AASHTO LRFD Bridge Design Specifications, (6th Edition with 2012 Interims).

Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Adopted January 1, 2012; and Supplemental Specifications and Recurring Special Provisions Adopted January 1, 2015.

2009 AASHTO LRFD Guide Specifications for Design of Pedestrian Bridges.

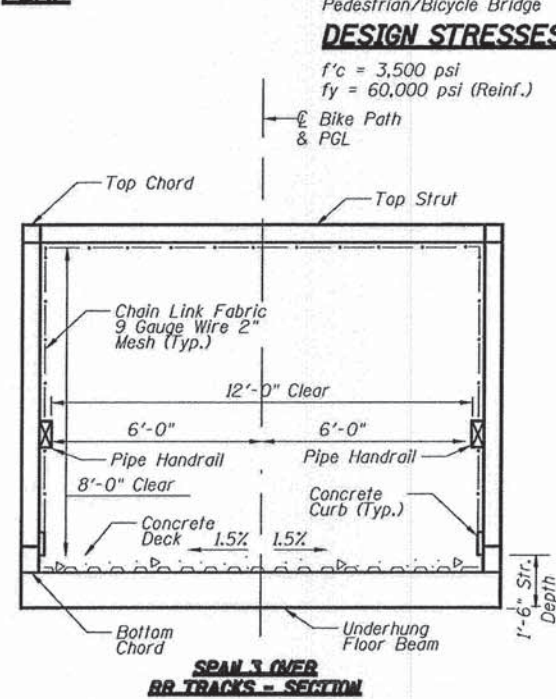
90 psf Live Load (May be adjusted for influence area)

20,000 lb. Vehicle Load (H-10 Truck)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. ($S_{0.1}$) = 0.09g
Design Spectral Acceleration at 0.2 sec. ($S_{0.2}$) = 0.158g
Soil Site Class = D

PLAN



CLASSIFICATION

Pedestrian/Bicycle Bridge
DESIGN STRESSES

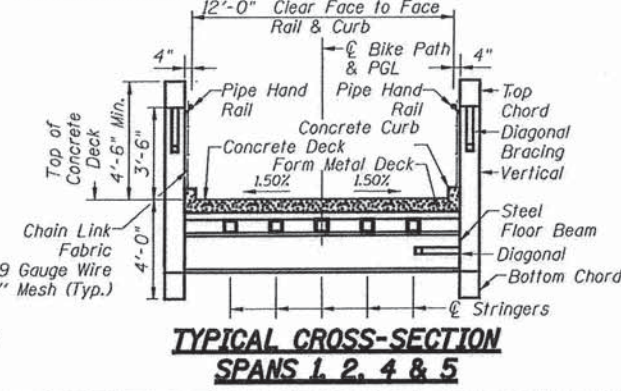
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf.)

Span	REACTION TABLE					
	P (k)		H (k)		L (k)	
3	1,2,4,5	3	1,2,4,5	3	1,2,4,5	
Dead Load	52.95	51.20				
Uniform Live Load	40.50	40.50				
Vehicle Load	10.00	10.00				
Wind Uplift (20 psf)	(-)15.38	(-)15.38				
Wind	+15.33	+13.46	29.32	27.35		
Thermal					7.95 7.68	

Loads are provided by a fabricator and for reference only.
(-) Indicates uplift load
P = Vertical Load at Each Bearing
H = Horizontal Load at Each Footing
L = Longitudinal Load at Each Bearing

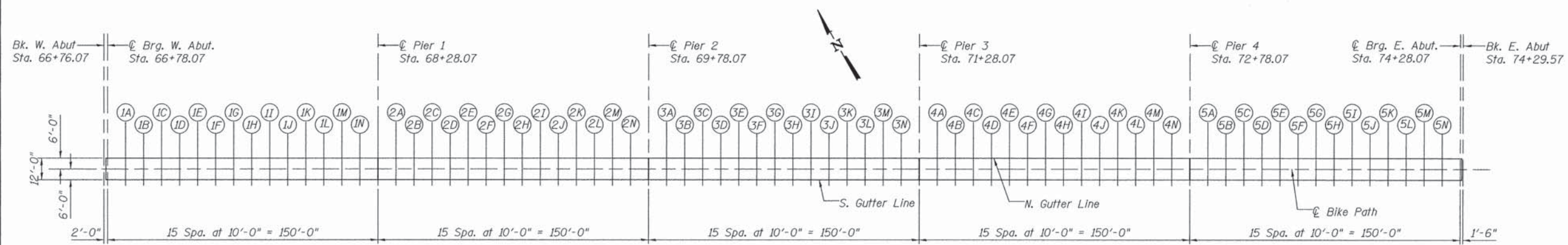
I certify that to the best of my knowledge, information and belief, this design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO LRFD Bridge Design Specifications.

THEODORE P. GEORGIS
REGISTERED STRUCTURAL ENGINEER
STATE OF ILLINOIS
EXPIRES 11/30/2016



GENERAL PLAN & ELEVATION
NORTH BRANCH BIKE TRAIL BRIDGE
OVER METRA RAILROAD
SECTION 08-F3000-21-BT
COOK COUNTY
STATION 70+53.07
STRUCTURE NUMBER 016-P021

 USER NAME = #USER# PLOT SCALE = #SCALE# PLOT DATE = #DATE#	DESIGNED - MMZ	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016-P021 SHEET NO. SB-1 OF SB-11 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - MMZ	REVISD -			08-F3000-21-BT	COOK	98	42	
	CHECKED - JPM/MMH/TPG	REVISD -			CONTRACT NO. 61A86				
	DATE - 10/20/2014	REVISD -			ILLINOIS FED. AID PROJECT				



TOP OF DECK PLAN

TOP OF DECK ELEVATIONS

(Final elevations, not adjusted for DL deflection)

Location	Station	☉ Line	N./S. Gutter
Bk. W. Abut.	66+76.07	620.87	620.78
☉ Brg. W. Abut.	66+78.07	620.97	620.88
1A	66+88.07	621.47	621.38
1B	66+98.07	621.97	621.88
1C	67+08.07	622.47	622.38
1D	67+18.07	622.97	622.88
1E	67+28.07	623.47	623.38
1F	67+38.07	623.97	623.88
1G	67+48.07	624.47	624.38
1H	67+58.07	624.97	624.88
1I	67+68.07	625.47	625.38
1J	67+78.07	625.97	625.88
1K	67+88.07	626.47	626.38
1L	67+98.07	626.97	626.88
1M	68+08.07	627.47	627.38
1N	68+18.07	627.97	627.88
☉ Pier 1	68+28.07	628.47	628.38
2A	68+38.07	628.97	628.88
2B	68+48.07	629.47	629.38
2C	68+58.07	629.97	629.88
2D	68+68.07	630.47	630.38
2E	68+78.07	630.97	630.88
2F	68+88.07	631.47	631.38
2G	68+98.07	631.97	631.88
2H	69+08.07	632.47	632.38
2I	69+18.07	632.97	632.88
2J	69+28.07	633.47	633.38
2K	69+38.07	633.97	633.88
2L	69+48.07	634.46	634.37
2M	69+58.07	634.92	634.83
2N	69+68.07	635.33	635.24

TOP OF DECK ELEVATIONS (CONT.)

(Final elevations, not adjusted for DL deflection)

Location	Station	☉ Line	N./S. Gutter
☉ Pier 2	69+78.07	635.69	635.60
3A	69+88.07	636.01	635.92
3B	69+98.07	636.28	636.19
3C	70+08.07	636.51	636.42
3D	70+18.07	636.69	636.60
3E	70+28.07	636.83	636.74
3F	70+38.07	636.92	636.83
3G	70+48.07	636.96	636.87
3H	70+58.07	636.96	636.87
3I	70+68.07	636.92	636.83
3J	70+78.07	636.83	636.74
3K	70+88.07	636.69	636.60
3L	70+98.07	636.51	636.42
3M	71+08.07	636.28	636.19
3N	71+18.07	636.01	635.92
☉ Pier 3	71+28.07	635.69	635.60
4A	71+38.07	635.33	635.24
4B	71+48.07	634.92	634.83
4C	71+58.07	634.46	634.37
4D	71+68.07	633.97	633.88
4E	71+78.07	633.47	633.38
4F	71+88.07	632.97	632.88
4G	71+98.07	632.47	632.38
4H	72+08.07	631.97	631.88
4I	72+18.07	631.47	631.38
4J	72+28.07	630.97	630.88
4K	72+38.07	630.47	630.38
4L	72+48.07	629.97	629.88
4M	72+58.07	629.47	629.38
4N	72+68.07	628.97	628.88
☉ Pier 4	72+78.07	628.47	628.38

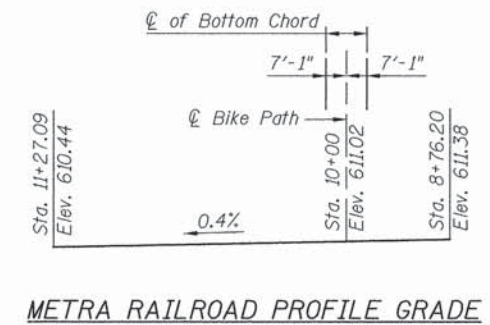
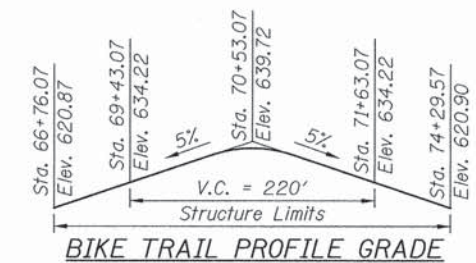
TOP OF DECK ELEVATIONS (CONT.)

(Final elevations, not adjusted for DL deflection)

Location	Station	☉ Line	N./S. Gutter
5A	72+88.07	627.97	627.88
5B	72+98.07	627.47	627.38
5C	73+08.07	626.97	626.88
5D	73+18.07	626.47	626.38
5E	73+28.07	625.97	625.88
5F	73+38.07	625.47	625.38
5G	73+48.07	624.97	624.88
5H	73+58.07	624.47	624.38
5I	73+68.07	623.97	623.88
5J	73+78.07	623.47	623.38
5K	73+88.07	622.97	622.88
5L	73+98.07	622.47	622.38
5M	74+08.07	621.97	621.88
5N	74+18.07	621.47	621.38
☉ Brg. E. Abut.	74+28.07	620.97	620.88
Bk. E. Abut.	74+29.57	620.90	620.81

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu. Yd.	-	158	158
Concrete Structures	Cu. Yd.	-	186.5	186.5
Reinforcement Bars, Epoxy Coated	Pound	-	31,600	31,600
Furnishing Steel Piles HP12x53	Foot	-	1,260	1,260
Driving Piles	Foot	-	1,260	1,260
Test Pile Steel HP12x53	Each	-	6	6
Pile Shoes	Each	-	46	46
Concrete Sealer	Sq. Ft.	-	2,537	2,537
Pedestrian Truss Superstructure	Sq. Ft.	11,250	-	11,250
Preformed Joint Strip Seal	Foot	-	78	78
Temporary Soil Retention System	Sq. Ft.	-	1,048	1,048



FILE NAME = #FILE#

Primera 100 S. Wacker Drive, Suite 100 - Chicago, IL 60606 • P: 312.954.8910 • F: 312.954.8415

USER NAME = #USER#	DESIGNED - MMZ	REVISED -
PLOT SCALE = #SCALE#	DRAWN - MMZ	REVISED -
PLOT DATE = #DATE#	CHECKED - JPM//MMH/TPG	REVISED -
	DATE - 10/20/2014	REVISED -

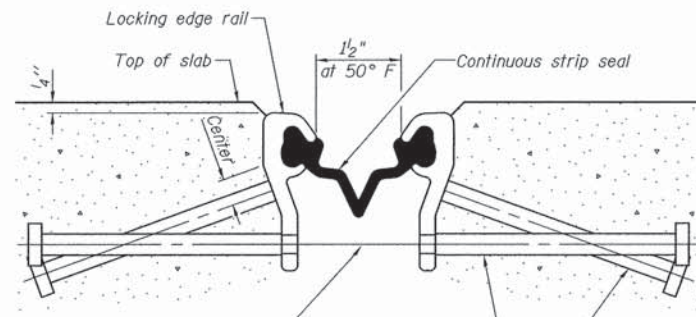
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK ELEVATIONS, T.B.O.M. AND MISCELLANEOUS DETAILS
STRUCTURE NO. 016-P021

SHEET NO. SB-2 OF SB-11 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	43
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

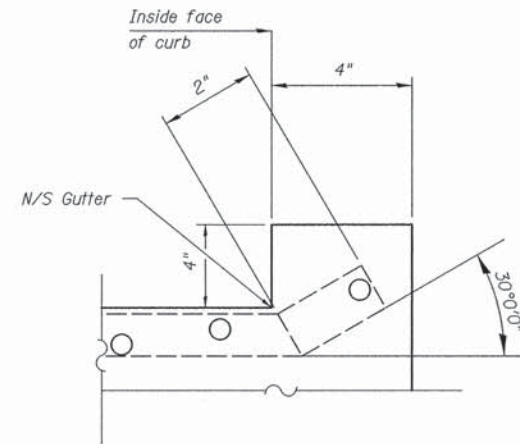
CONTRACT NO. 61A86



7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

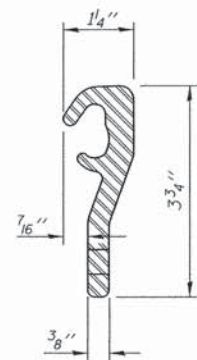
Place 1/2" ϕ x 6" granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded at 1'-0" alt. cts.

SECTION THRU EXPANSION STRIP SEAL JOINT

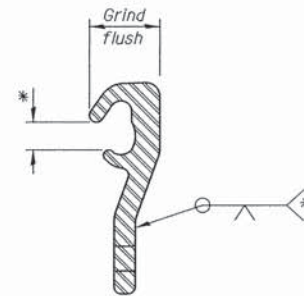


EXPANSION JOINT AT CURB

(Showing plate)
(N.T.S)



LOCKING EDGE RAIL



LOCKING EDGE RAIL SPLICE

* Omit weld at seal opening.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	78

Notes:

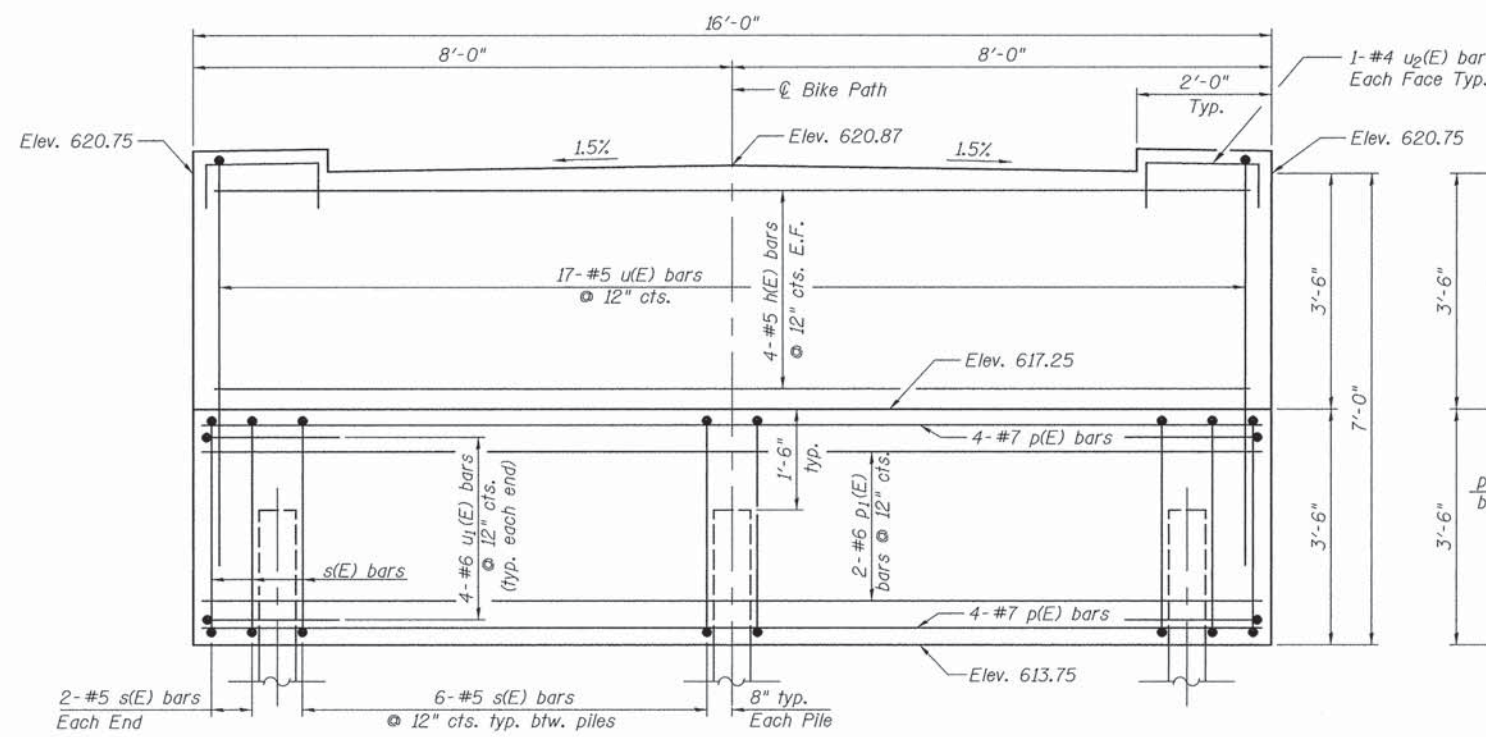
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.

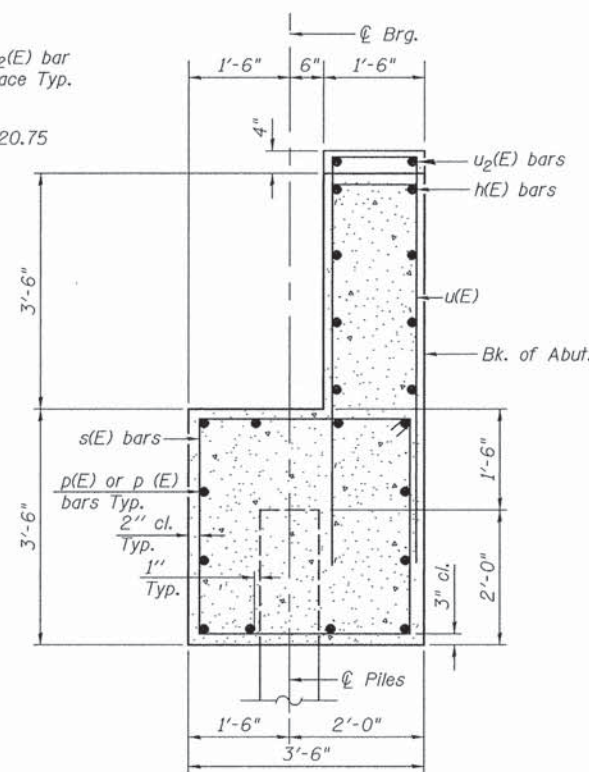
The inside of the Locking Edge Rail groove shall be free of weld residue. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

The manufacturer's recommended installation methods shall be followed. All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.



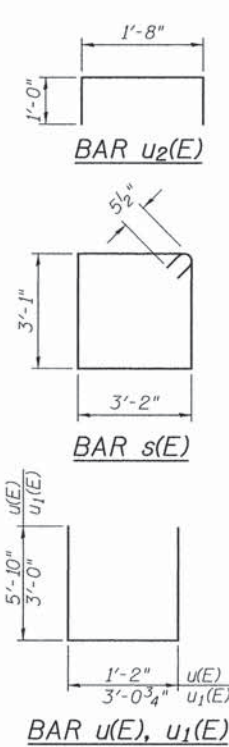
ELEVATION



SEC. THRU ABUT.

MINIMUM BAR LAP

#5 = 2'-6"
#6 = 3'-0"

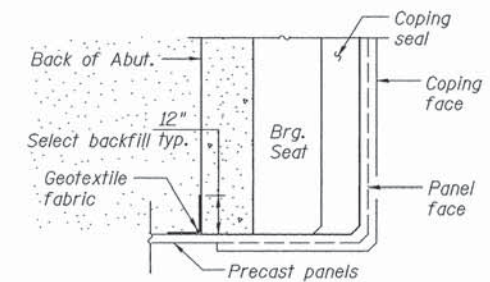


BILL OF MATERIAL

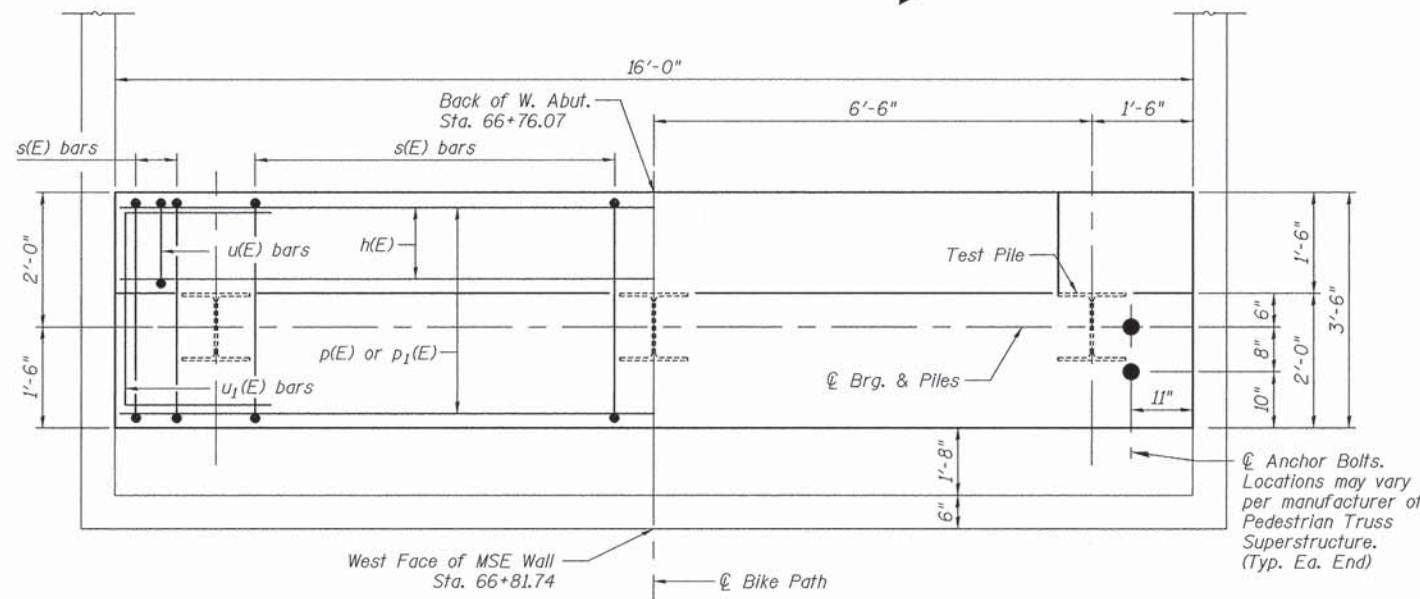
Bar	No.	Size	Length	Shape
h(E)	8	#5	15'-8"	
p(E)	8	#7	15'-8"	
p1(E)	4	#6	15'-8"	
s(E)	16	#5	13'-5"	
u(E)	17	#5	12'-10"	
u1(E)	8	#6	9'-1"	
u2(E)	4	#4	3'-8"	
Concrete Sealer		Sq. Ft.	140	
Concrete Structures		Cu. Yd.	10.6	
Reinforcement Bars, Epoxy Coated		Pound	1,050	
Furnishing Steel Piles HP 12x53		Foot	90	
Driving Piles		Foot	90	
Test Pile Steel HP 12x53		Each	1	
Pile Shoes		Each	3	

PILE DATA

Type: Steel HP 12x53 with pile shoes
Nominal Required Bearing: 307 kips
Factored Resistance Available: 169 kips
Est. Length: 45 ft
No. Production Piles: 2
No. Test Piles: 1



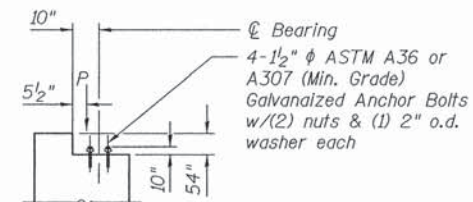
SECTION A-A



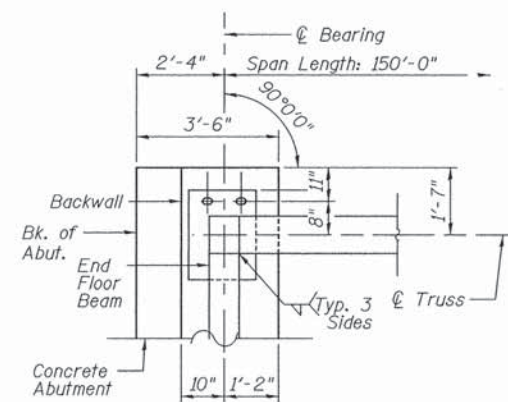
REINFORCEMENT SHOWN

DIMENSIONS SHOWN

PLAN

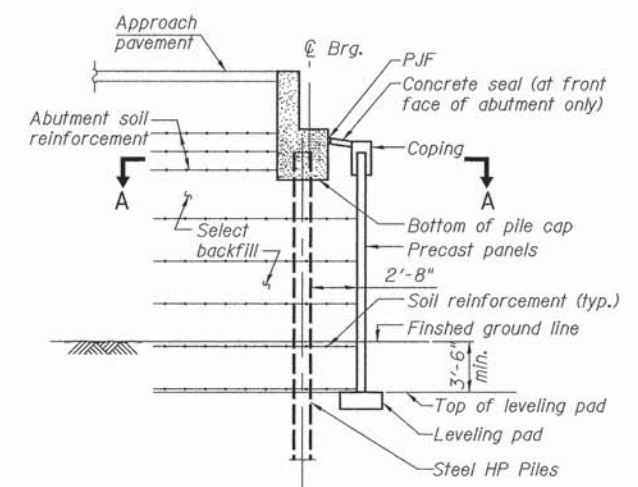


ANCHOR BOLT ELEVATION*



BEARING ASSEMBLY PLAN*

Typ. Each Corner



MSE WALL ELEVATION

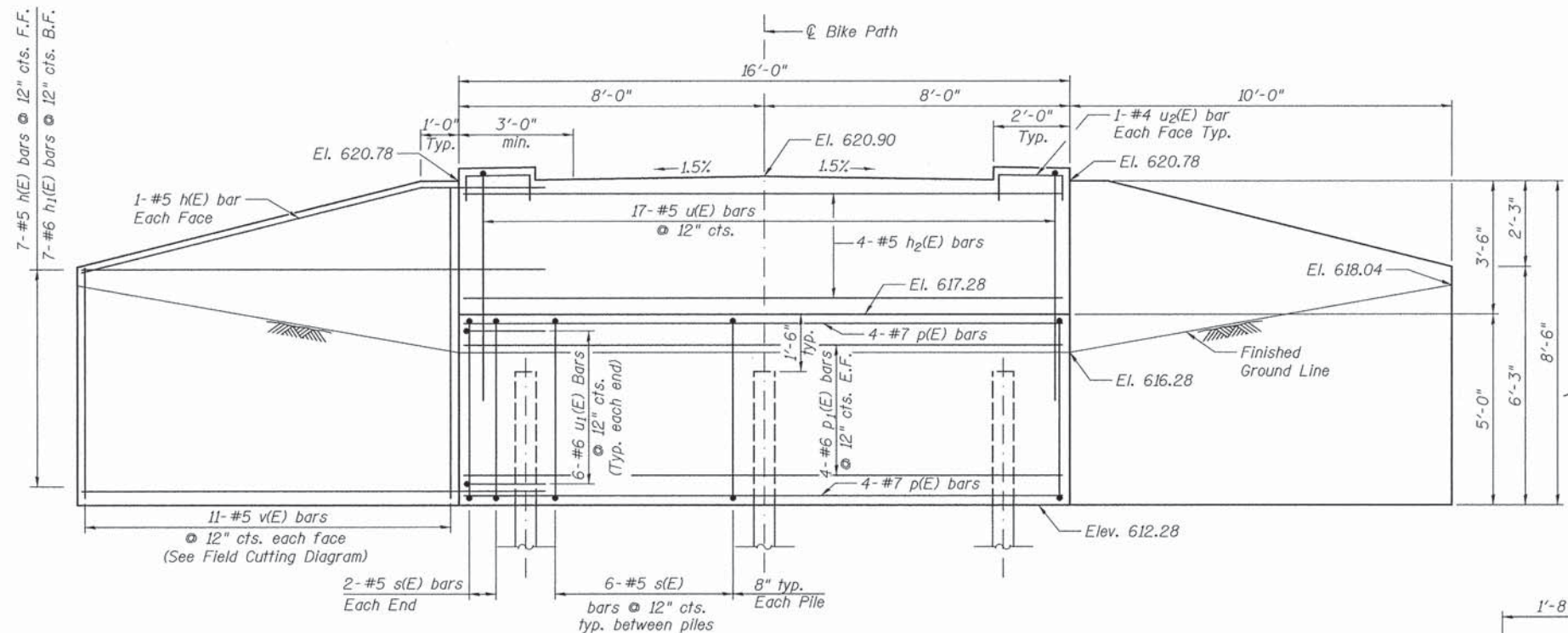
Notes:

See MSE Wall plans for details.
The MSE Wall supplier shall design the abutment soil reinforcement to resist a horizontal force of 1.5 kips/ft. of abutment.
F.F. = Front Face
B.F. = Back Face
E.F. = Each Face

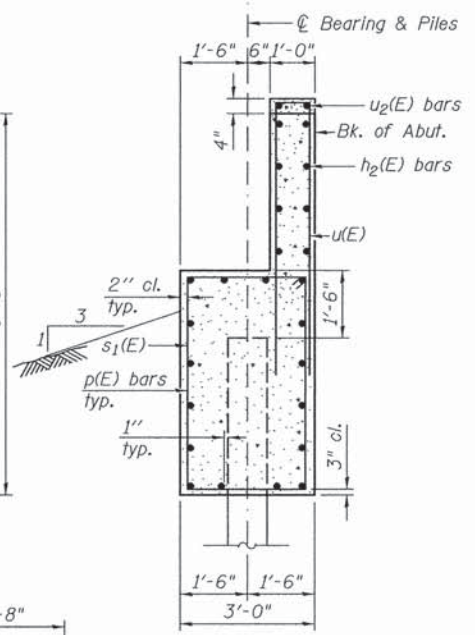
*Dimensions are based on Contech's information and may vary depending on final manufacturer.

	USER NAME = #USER#	DESIGNED - MMZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WEST ABUTMENT STRUCTURE NO. 016-P021 SHEET NO. SB-4 OF SB-11 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = #SCALE#	DRAWN - MMZ	REVISED -				08-F3000-21-BT	COOK	98	45	
	PLOT DATE = #DATE#	CHECKED - JPM//MMH/TPG	REVISED -								CONTRACT NO. 61A86
		DATE - 10/20/2014	REVISED -				FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

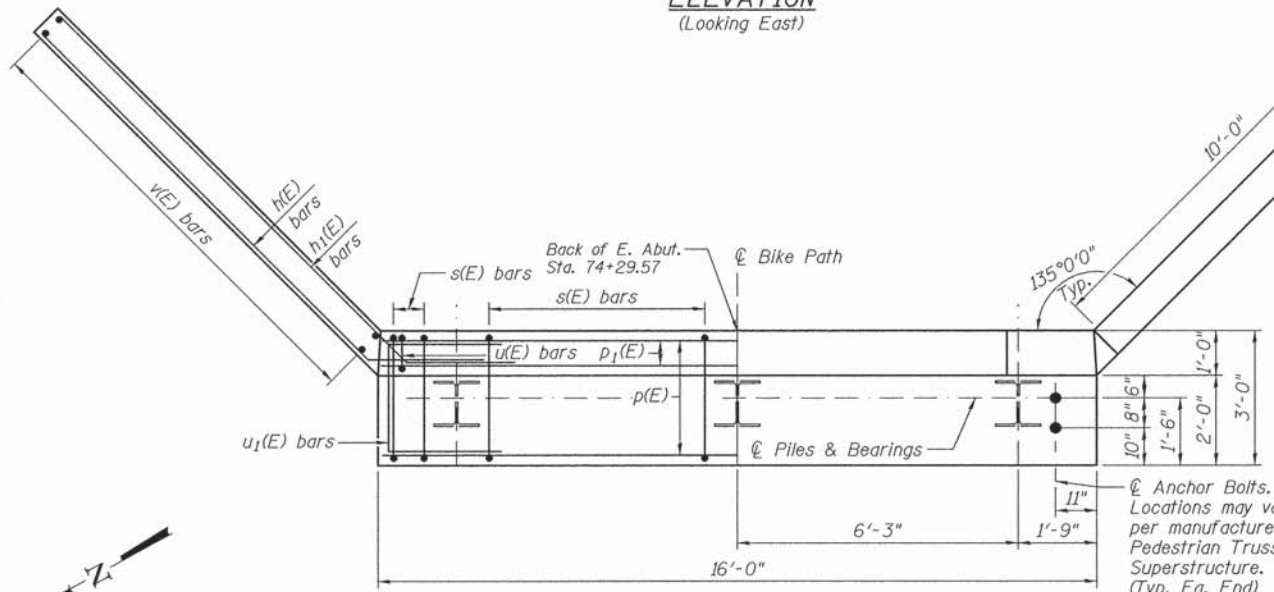
FILE NAME = #FILE#



ELEVATION
(Looking East)



SEC. THRU ABUT.

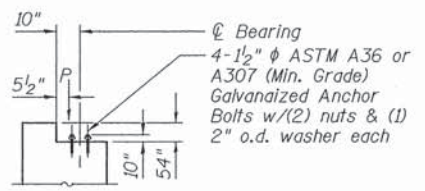


REINFORCEMENT SHOWN

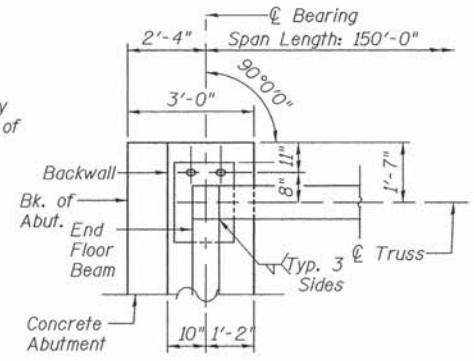
DIMENSION SHOWN

PLAN

*Dimensions are based on Contech's information and may vary depending on final manufacturer.



ANCHOR BOLT ELEVATION*

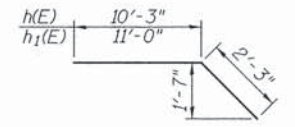


BEARING ASSEMBLY PLAN*

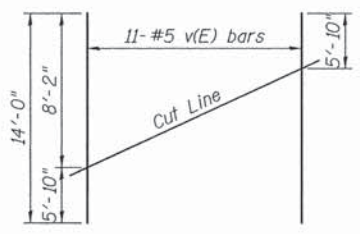
Typ. Each Corner

MINIMUM BAR LAP

#5 = 2'-6"
#6 = 3'-0"



BAR h(E) & h1(E)



FIELD CUTTING DIAGRAM

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

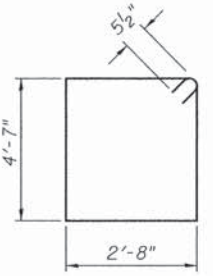
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	18	#5	12'-6"	
h1(E)	14	#6	13'-3"	
h2(E)	8	#5	15'-8"	
p(E)	8	#7	15'-8"	
p1(E)	8	#6	15'-8"	
s1(E)	16	#5	15'-5"	
u(E)	17	#5	12'-4"	
u1(E)	12	#6	8'-7"	
u2(E)	4	#4	3'-8"	
v(E)	22	#5	14'-0"	
Concrete Structures			Cu. Yd.	15.4
Reinforcement Bars, Epoxy Coated			Pound	2,060
Furnishing Steel Piles HP 12x53			Foot	70
Driving Piles			Foot	70
Test Pile Steel HP 12x53			Each	1
Pile Shoes			Each	3
Concrete Sealer			Sq. Ft.	209

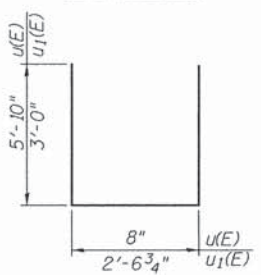
Note:
F.F. = Front Face
B.F. = Back Face
E.F. = Each Face

PILE DATA

Type: Steel HP 12x53 with pile shoes
Nominal Required Bearing: 331 kips
Factored Resistance Available: 184 kips
Est. Length: 35 ft
No. Production Piles: 2
No. Test Piles: 1



BAR s1(E)



BAR u(E), u1(E)

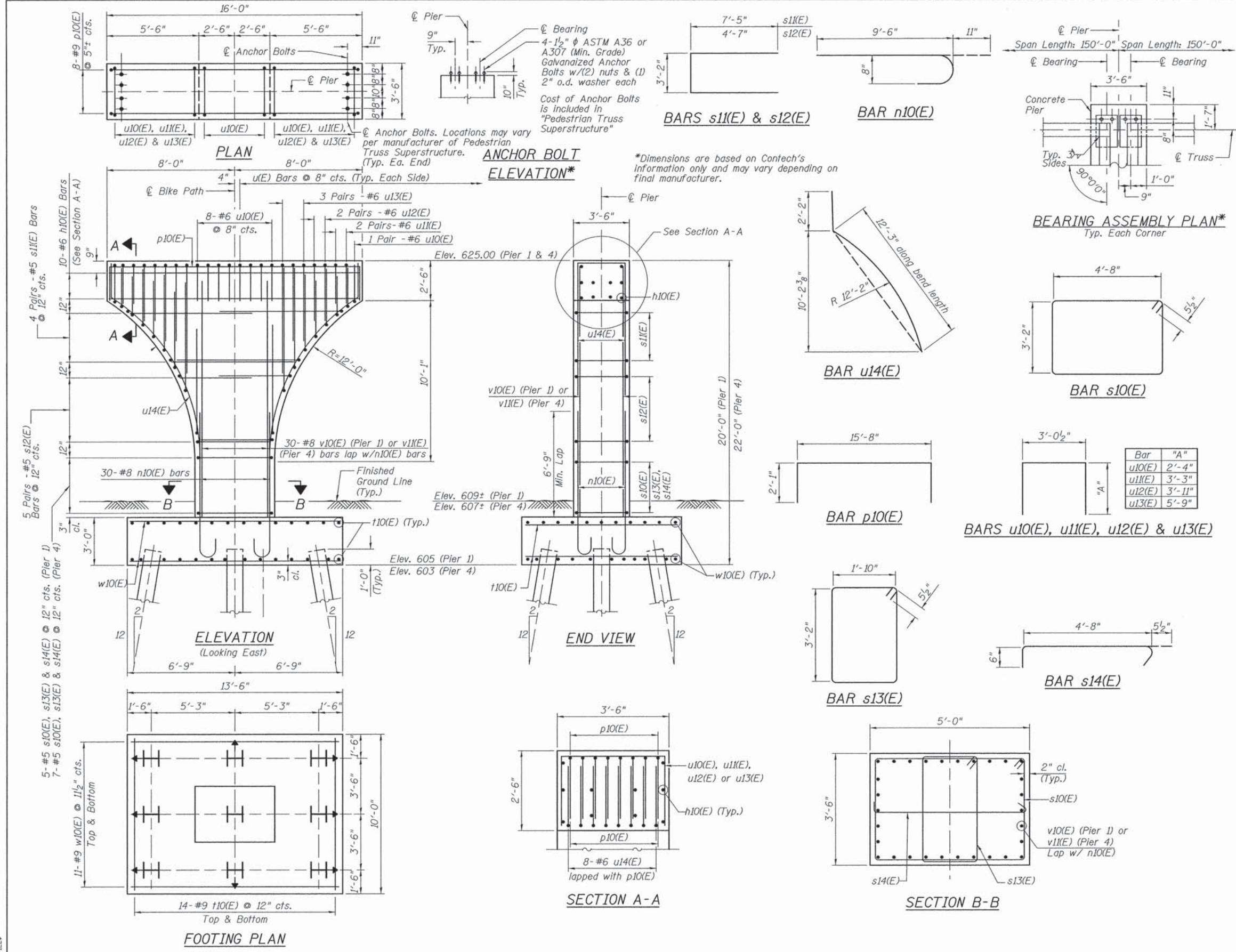


USER NAME = #USER#	DESIGNED - MMZ	REVISED -
PLOT SCALE = #SCALE#	DRAWN - MMZ	REVISED -
PLOT DATE = #DATE#	CHECKED - JPM//MMH/TPG	REVISED -
	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT
STRUCTURE NO. 016-P021
SHEET NO. SB-5 OF SB-11 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	46
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61A86	



BILL OF MATERIAL

Bar	Size	Length	Shape	No.	
				Pier 1	Pier 4
h10(E)	#6	15'-8"		10	10
n10(E)	#8	10'-5"		30	30
p10(E)	#9	19'-10"		8	8
s10(E)	#5	16'-7"		5	7
s11(E)	#5	18'-0"		8	8
s12(E)	#5	12'-4"		10	10
s13(E)	#5	10'-11"		5	7
s14(E)	#5	5'-8"		5	7
t10(E)	#9	9'-8"		28	28
u10(E)	#6	7'-9"		12	12
u11(E)	#6	9'-7"		8	8
u12(E)	#6	10'-11"		8	8
u13(E)	#6	14'-7"		12	12
u14(E)	#6	14'-5"		16	16
v10(E)	#8	16'-10"		30	-
v11(E)	#8	18'-10"		-	30
w10(E)	#9	13'-2"		22	22
Structure Excavation	Cu. Yd.	37	37		
Concrete Structures	Cu. Yd.	33.9	35.2		
Reinforcement Bars, Epoxy Coated	Pound	6,310	6,540		
Furnishing Steel Piles HP12x53	Foot	280	280		
Driving Piles	Foot	280	280		
Test Pile Steel HP12x53	Each	1	1		
Pile Shoes	Each	9	9		
Concrete Sealer	Sq. Ft.	463	497		
Temporary Soil Retention System	Sq. Ft.	245	245		

NOTES:

1. Concrete clear cover shall be 2" minimum unless noted otherwise.
2. All edges have standard 3/4" chamfers except as noted.
3. Space Reinforcement in Cap to miss Anchor Bolts.
4. Min. Lap for Bar #5 = 2'-6", # 6 = 3'-0", #8 = 6'-9".
5. Reinforcement bars designated (E) shall be epoxy coated.

PILE DATA

Type: Steel HP12x53 with pile shoes
 Nominal Required Bearing: 257 kips (Pier 1 & 4)
 Factored Resistance Available: 142 kips (Pier 1 & 4)
 Est. Length: 35 ft (Pier 1 & 4)
 No. Production Piles: 8 per pier
 No. Test Piles: 1 per pier

LEGEND

E.F. = Each Face
 - Battered Pile

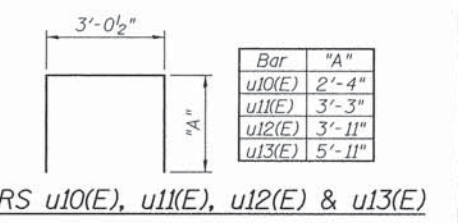
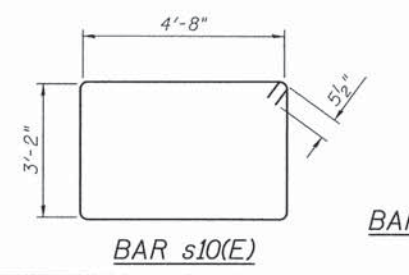
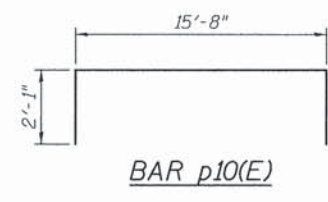
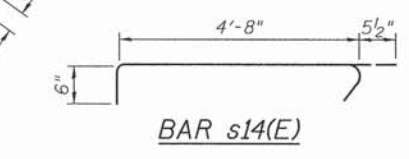
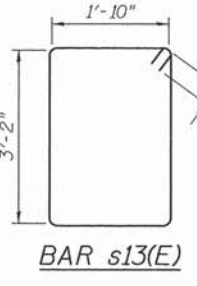
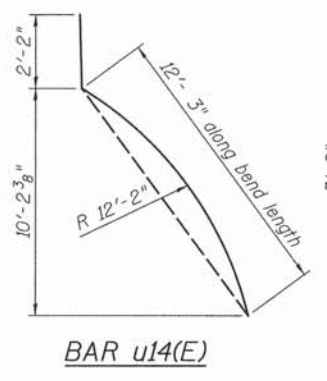
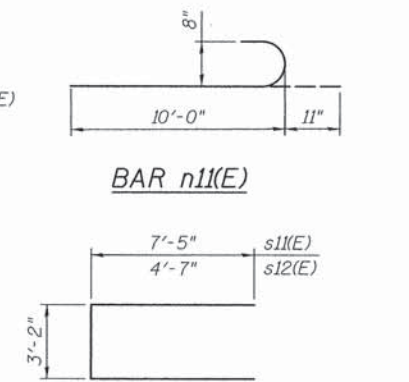
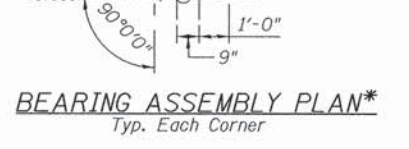
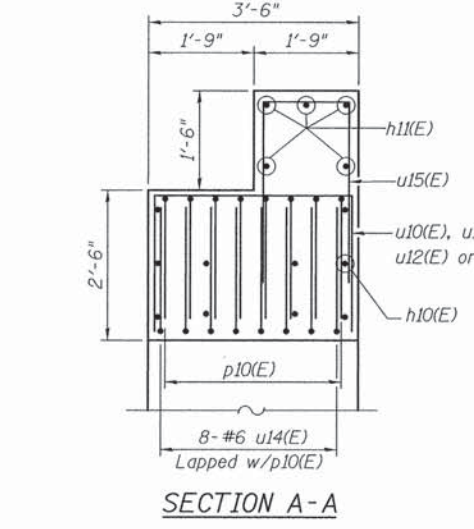
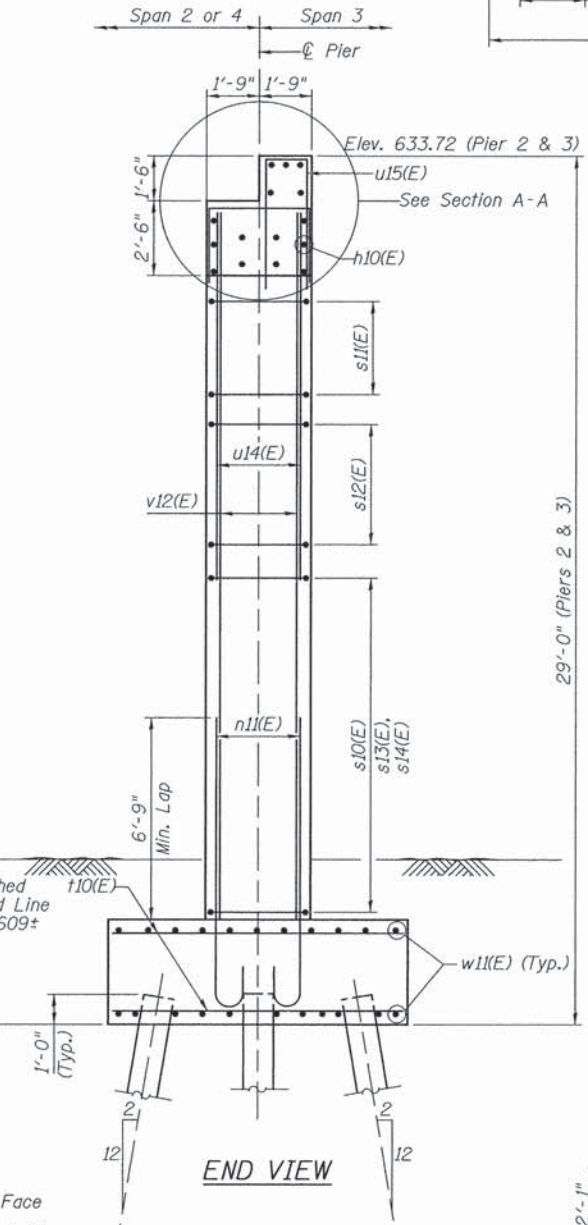
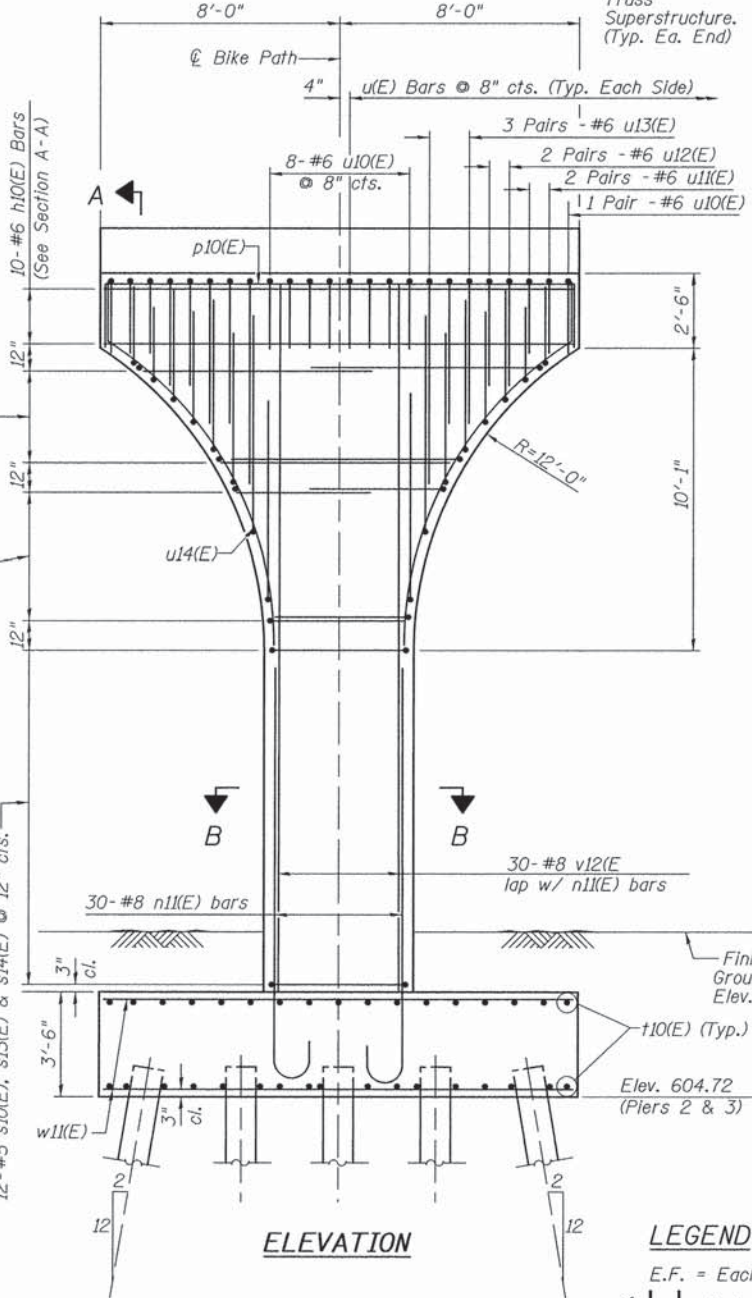
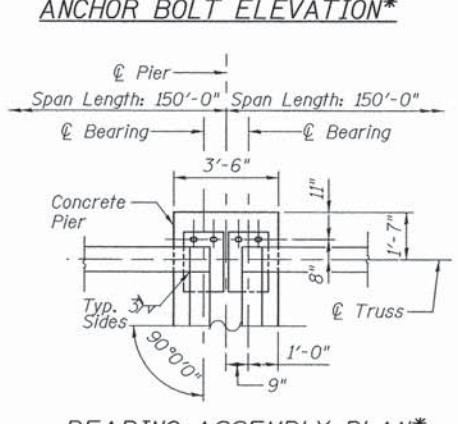
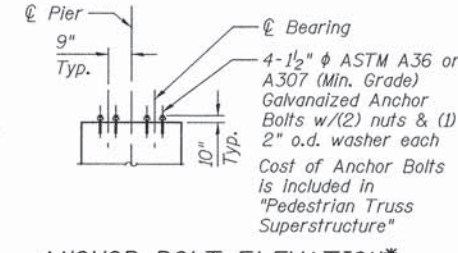
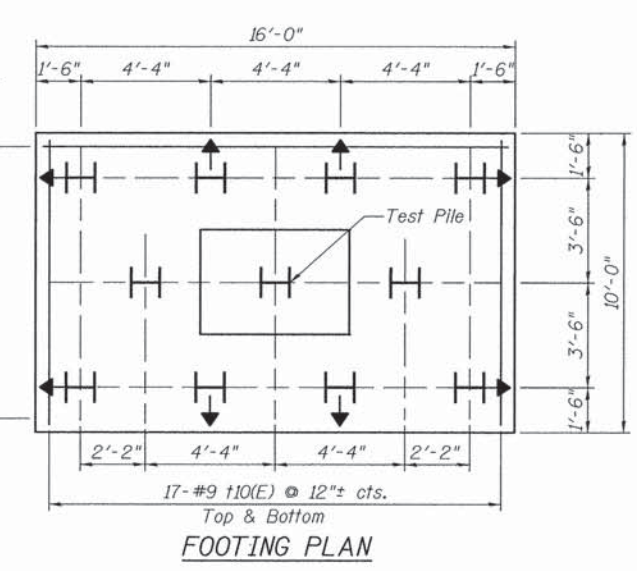
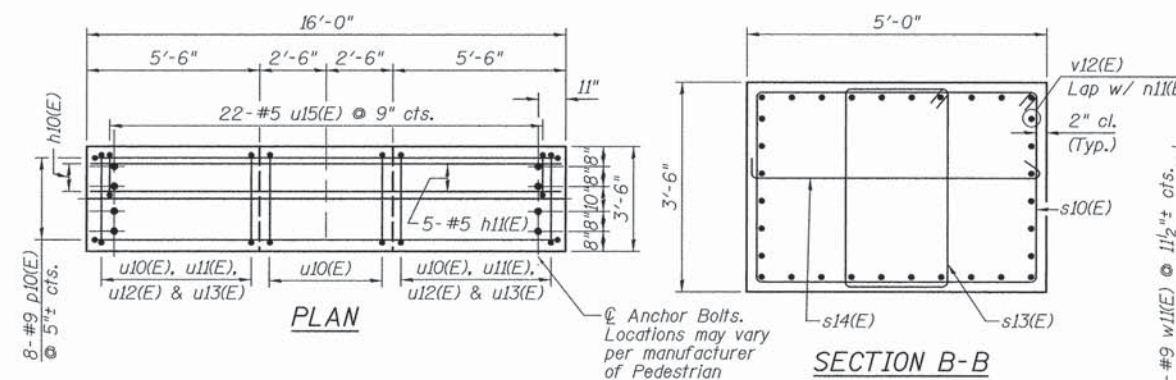


USER NAME = #USER#	DESIGNED - MMZ	REVISED -
PLOT SCALE = #SCALE#	DRAWN - MMZ	REVISED -
PLOT DATE = #DATE#	CHECKED - JPM/MMH/TPG	REVISED -
	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIERS 1 & 4
STRUCTURE NO. 016-P021
 SHEET NO. SB-6 OF SB-11 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	47
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



BILL OF MATERIAL **

Bar	Size	Length	Shape	No.
h10(E)	#6	15'-8"	—	20
h11(E)	#5	15'-8"	—	10
n11(E)	#8	10'-11"	—	60
p10(E)	#9	19'-10"	—	16
s10(E)	#5	16'-7"	—	24
s11(E)	#5	18'-0"	—	16
s12(E)	#5	12'-4"	—	20
s13(E)	#5	10'-11"	—	24
s14(E)	#5	5'-8"	—	24
t10(E)	#9	9'-8"	—	68
u10(E)	#6	7'-9"	—	24
u11(E)	#6	9'-7"	—	16
u12(E)	#6	10'-11"	—	16
u13(E)	#6	14'-7"	—	24
u14(E)	#6	14'-5"	—	32
u15(E)	#5	8'-9"	—	44
v12(E)	#8	23'-10"	—	60
w11(E)	#9	15'-8"	—	44

Structure Excavation	Cu. Yd.	84
Concrete Structures	Cu. Yd.	91.4
Reinforcement Bars, Epoxy Coated	Pound	15,640
Furnishing Steel Piles HP12x53	Foot	540
Driving Piles	Foot	540
Test Pile Steel HP12x53	Each	2
Pile Shoes	Each	22
Concrete Sealer	Sq. Ft.	1,228
Temporary Soil Retention System	Sq. Ft.	560

** Includes both Piers

PILE DATA

Type: Steel HP12x53 with pile shoes
 Nominal Required Bearing: 261 kips
 Factored Resistance Available: 144 kips
 Est. Length: 27 ft
 No. Production Piles: 10 per pier
 No. Test Piles: 1 per pier

- NOTES:**
1. Concrete clear cover shall be 2" minimum unless noted otherwise.
 2. All edges have standard 3/4" chamfers except as noted.
 3. Space Reinforcement in Cap to miss Anchor Bolts.
 4. Min. Lap for Bar #5 = 2'-6", #6 = 3'-0", #8 = 6'-9".
 5. Reinforcement bars designated (E) shall be epoxy coated.



USER NAME = #USER#	DESIGNED - MMZ	REVISED -
PLOT SCALE = #SCALE#	DRAWN - MMZ	REVISED -
PLOT DATE = #DATE#	CHECKED - JPM/MMH/TPG	REVISED -
	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIERS 2 & 3
STRUCTURE NO. 016-P021

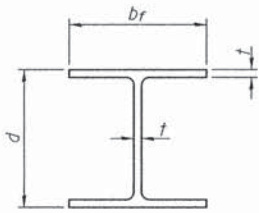
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	48

CONTRACT NO. 61A86

FILE NAME = #FILE#

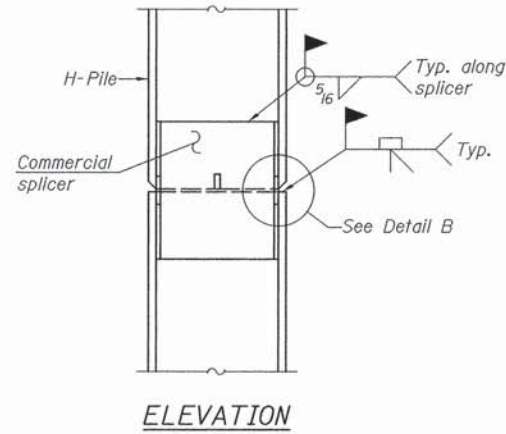
SHEET NO. SB-7 OF SB-11 SHEETS

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

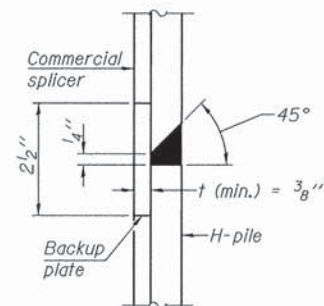


STEEL PILE TABLE

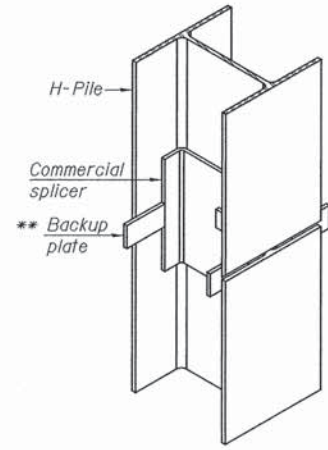
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11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

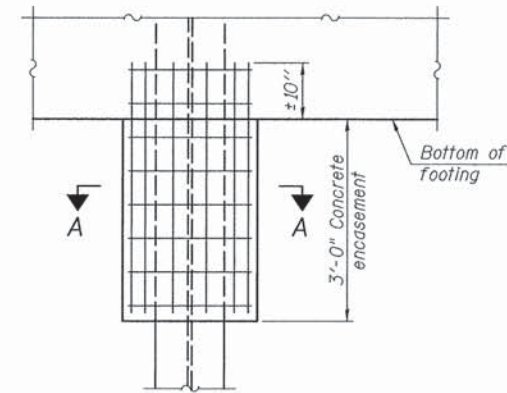


DETAIL "B"



ISOMETRIC VIEW

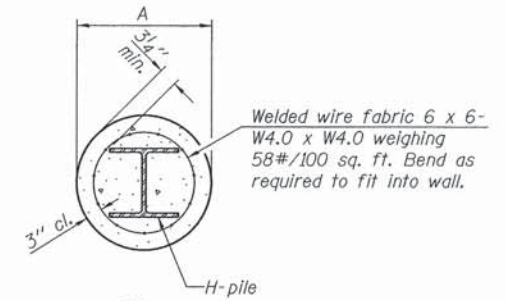
WELDED COMMERCIAL SPLICE



ELEVATION

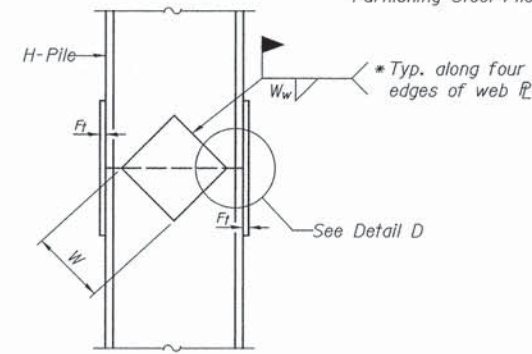
PILE ENCASEMENT

Note:
Concrete, reinforcement bars and welded wire fabric are incidental to Furnishing Steel Piles.



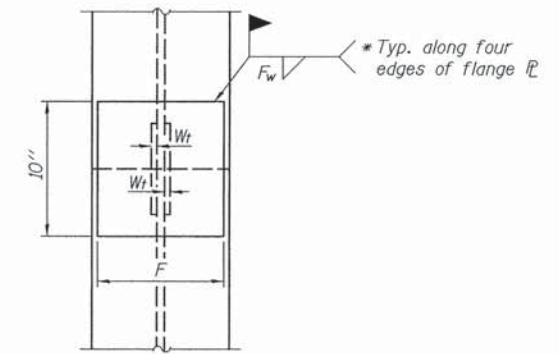
SECTION A-A

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



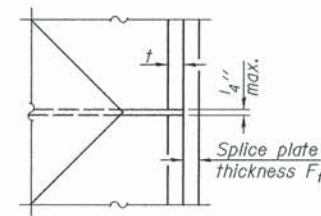
ELEVATION

WELDED PLATE FIELD SPLICE

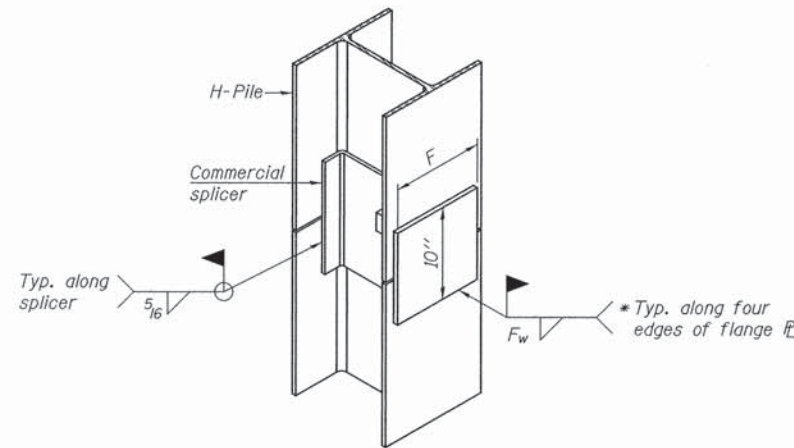


END VIEW

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"



DETAIL D

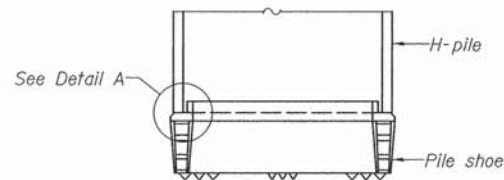


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

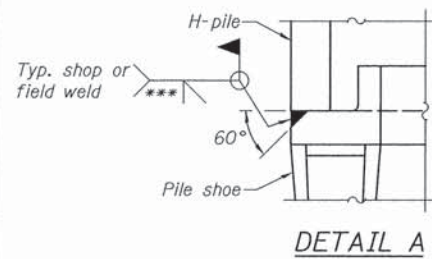
- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

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



ELEVATION

H-PILE SHOE ATTACHMENT



DETAIL A

FILE NAME = #FILE#
Primera
1805 Wacker Drive, Suite 700 - Chicago, IL 60604 - P 312.269.0910 - F 312.269.0415

1-27-12

USER NAME = #USER#	DESIGNED - MMZ	REVISED -
PLOT SCALE = #SCALE#	DRAWN - MMZ	REVISED -
PLOT DATE = #DATE#	CHECKED - JPM//MMH/TPG	REVISED -
	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 016-P021

SHEET NO. SB-8 OF SB-11 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	49
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 61A86

S.A.M. Consultants, Inc.
Geotechnical Engineering & Materials Testing
DB/AS/E Firm

BORING NUMBER B-1
PAGE 1 OF 2

CLIENT URS Corporation PROJECT NAME North Branch Bicycle Trail Extension Project
 PROJECT NUMBER SAM - 12014GT PROJECT LOCATION Cook County Forest Preserve, Chicago, Illinois
 DATE STARTED 12/14/12 COMPLETED 12/14/12 GROUND ELEVATION 810.5 ft URS HOLE SIZE 6 inch
 DRILLING CONTRACTOR K & S Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Augurs AT TIME OF DRILLING ---
 LOGGED BY DM CHECKED BY AR AT END OF DRILLING ---
 NOTES Near west abut. of proposed METRA bridge AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (FOOT)	BLOW COUNTS (N VALUE)	POCKET PEN. (lb/in)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	FINES CONTENT (%)	ATTERBERG LIMITS
0		TOPSOIL - dark Gray, with roots CLAY with some organics, gray and dark brown, soft	SS 1		5-9-13 (22)	2.5		28					
2.5		SAND, medium grained with gravel; brown; moist, loose, - (SP)	SS 2		5-9-12 (21)			11	17	2	15		
5		SILTY CLAY with traces of sand & gravel; gray medium stiff to stiff - (CL _{ML})	SS 3		11-13-24 (37)	3.0		10					
			SS 4		5-8-8 (14)	4.5		16					
			SS 5		4-6-8 (14)	3.75		18					
			SS 6		4-5-7 (12)	2.75		18					
15		SILTY SANDY CLAY; traces of gravel, moist to very moist, medium stiff - (CL _S)	SS 7		5-7-10 (17)	2.0		16					
20		SILTY CLAY with traces of sand and gravel; gray; moist; stiff to very stiff - (CL _{ML} with sand)	SS 8		3-6-9 (15)	3.25		20					
			SS 9		6-8-13 (21)	4.25		16					
			SS 10		7-11-14 (25)	4.25		14					
			SS		8-9-9	3.75		12					

(Continued Next Page)

S.A.M. Consultants, Inc.
Geotechnical Engineering & Materials Testing
DB/AS/E Firm

BORING NUMBER B-1
PAGE 2 OF 2

CLIENT URS Corporation PROJECT NAME North Branch Bicycle Trail Extension Project
 PROJECT NUMBER SAM - 12014GT PROJECT LOCATION Cook County Forest Preserve, Chicago, Illinois

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (FOOT)	BLOW COUNTS (N VALUE)	POCKET PEN. (lb/in)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	FINES CONTENT (%)	ATTERBERG LIMITS
35		SILTY CLAY with traces of sand and gravel; gray; moist; stiff to very stiff - (CL _{ML} with sand) (continued)	SS 11		(18)								
			SS 12		5-9-12 (21)	4.5		13					
			SS 13		7-7-12 (19)	2.75		13					
50		CLAY with gravel; gray; moist to damp; very stiff to hard - (CL)	SS 14		21-30-34 (64)	4.5		9					
60		SILT with gravel, gray, damp, hard, to very hard - (ML with gravel)	SS 15		25-34-41 (76)	4.5		10					
69.75		SILTSTONE: very hard - Auger refusal at 69.75 feet Bottom of hole at 69.8 feet.	SS 16		47-50/4"			11					

S.A.M. Consultants, Inc.
Geotechnical Engineering & Materials Testing
DB/AS/E Firm

BORING NUMBER B-2
PAGE 1 OF 2

CLIENT URS Corporation PROJECT NAME North Branch Bicycle Trail Extension Project
 PROJECT NUMBER SAM - 12014GT PROJECT LOCATION Cook County Forest Preserve, Chicago, Illinois
 DATE STARTED 12/17/12 COMPLETED 12/17/12 GROUND ELEVATION 609.0 ft URS HOLE SIZE 6 inch
 DRILLING CONTRACTOR K & S Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Augurs AT TIME OF DRILLING 58.0 ft / Elev 551.0 ft
 LOGGED BY DM CHECKED BY AR AT END OF DRILLING 50.0 ft / Elev 559.0 ft
 NOTES Near Pier #1 of proposed METRA bridge AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (FOOT)	BLOW COUNTS (N VALUE)	POCKET PEN. (lb/in)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	FINES CONTENT (%)	ATTERBERG LIMITS
0		2" layer of Topsoil CLAY CLAY with organics, drak gray, wet, soft.	SS 1		7-8-6 (14)	3.0		63					
		LEAN CLAY with traces of sand and gravel; dark brown to brown; moist; medium stiff to stiff - (CL with sand)	SS 2		7-6-8 (14)	4.5		18					
			SS 3		5-9-11 (20)	4.5		15					
			SS 4		6-7-9 (16)	4.5		17					
			SS 5		4-6-10 (16)	3.5		20					
			SS 6		3-4-8 (12)	3.75		20					
15		SILTY CLAY with gravel; gray; moist to very moist; stiff; (CL-ML with gravel)	SS 7		2-7-8 (15)	2.5		14					
			SS 8		3-6-8 (14)	2.75		19					
			SS 9		6-8-12 (20)	2.75		14					
			SS 10		5-6-9 (15)	3.25		12					
			SS		6-7-8	4.0		18					

(Continued Next Page)

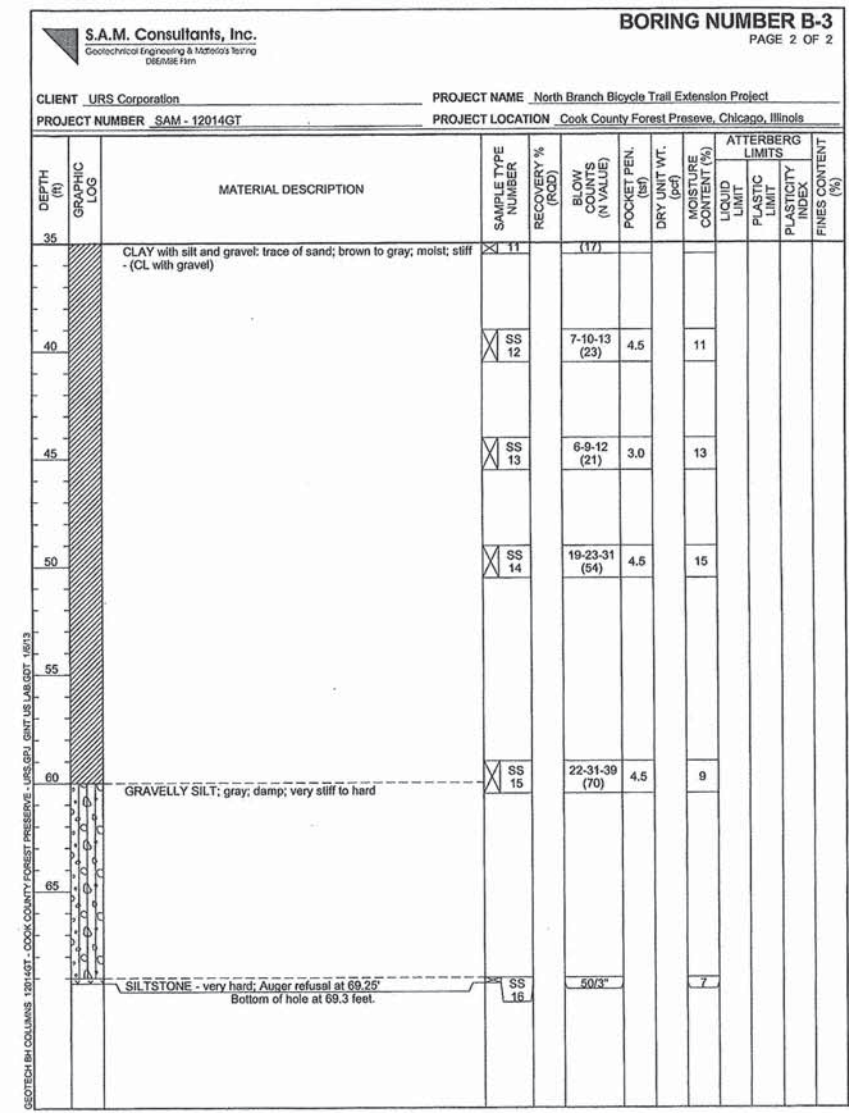
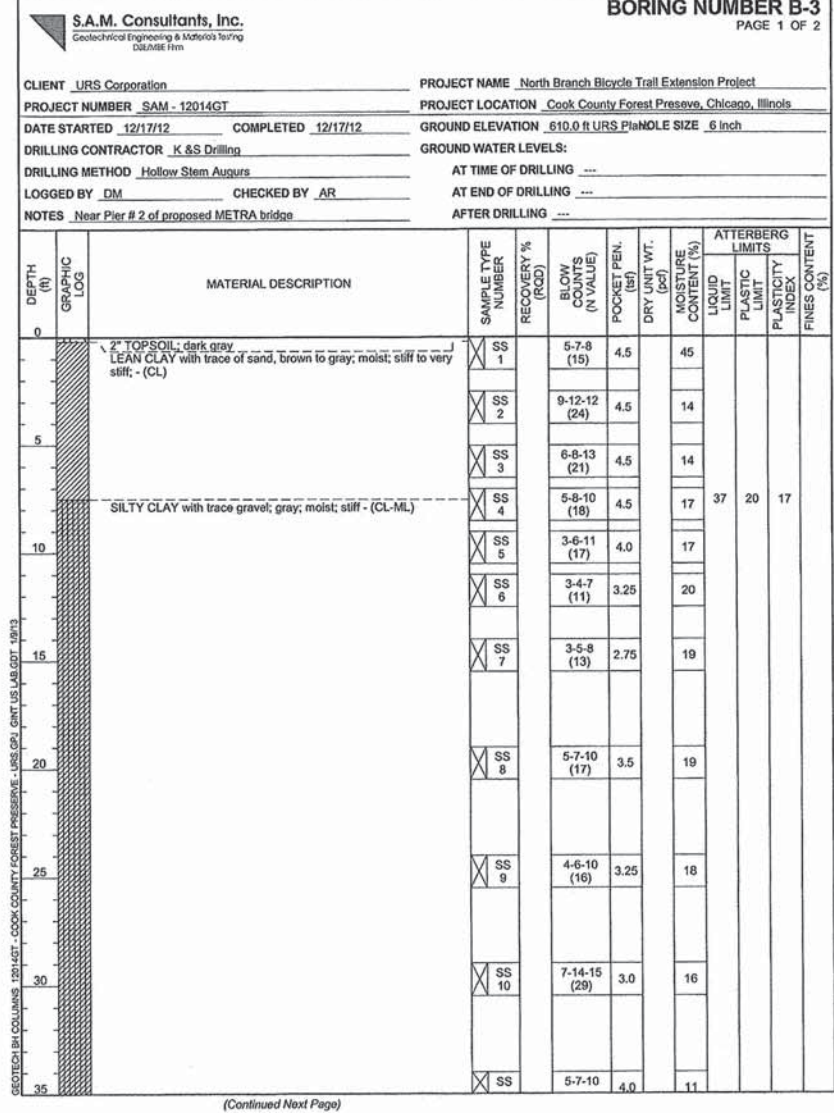
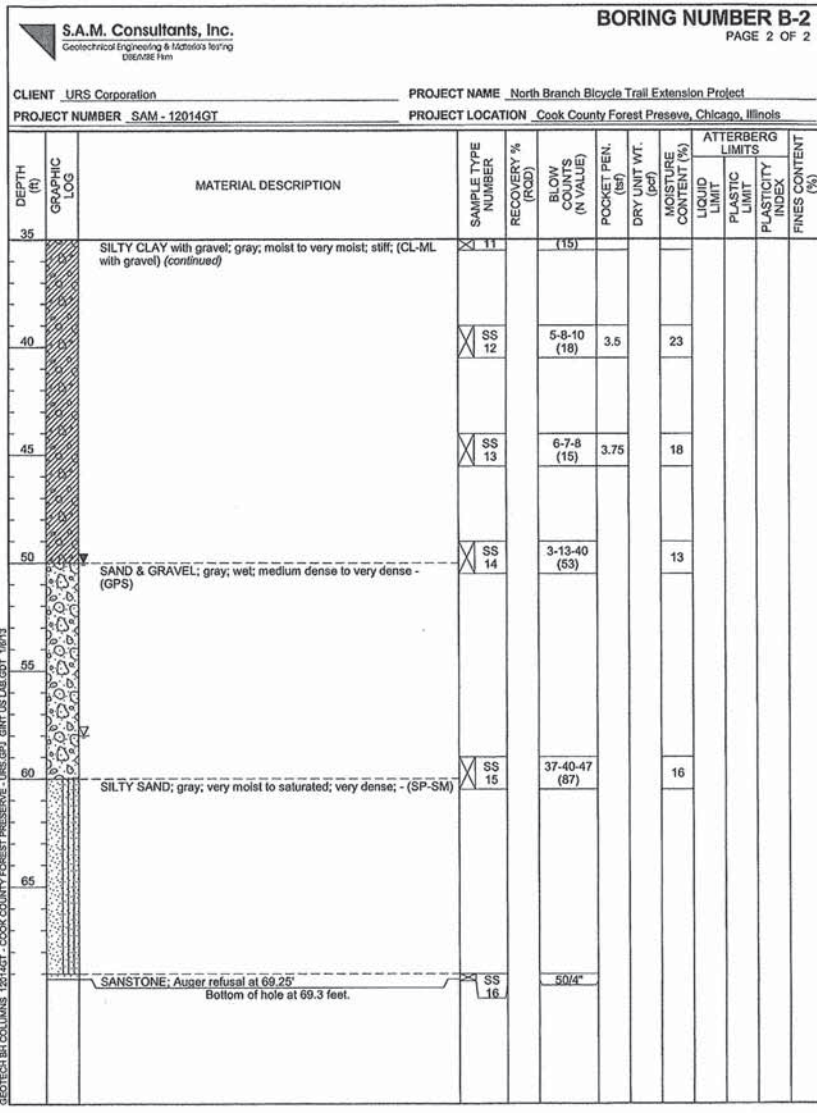


USER NAME = #USER#	DESIGNED - MMZ	REVISED -
PLOT SCALE = #SCALE#	DRAWN - MMZ	REVISED -
PLOT DATE = #DATE#	CHECKED - JPM//MMH/TPG	REVISED -
	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 1
STRUCTURE NO. 016-P021
SHEET NO. SB-9 OF SB-11 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	50
CONTRACT NO. 61A86				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



CLIENT URS Corporation PROJECT NAME North Branch Bicycle Trail Extension Project
 PROJECT NUMBER SAM - 12014GT PROJECT LOCATION Cook County Forest Preserve, Chicago, Illinois
 DATE STARTED 12/18/12 COMPLETED 12/18/12 GROUND ELEVATION 609.5 ft URS HANDLE SIZE 6 Inch
 DRILLING CONTRACTOR K & S Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Augers AT TIME OF DRILLING 49.0 ft / Elev 560.5 ft
 LOGGED BY DM CHECKED BY AR AT END OF DRILLING 46.0 ft / Elev 563.5 ft
 NOTES Near Pier #3 of proposed METRA bridge AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (ROD)	BLOW COUNTS (N VALUE)	POCKET PEN. (lb)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)	PLASTICITY INDEX (%)	FINES CONTENT (%)
0		4" TOPSOIL, dark gray	SS 1		4-4-5 (9)	3.75		26				
0		LEAN CLAY with organics; gray; moist; medium stiff to soft; (CL)	SS 2		3-3-5 (8)	3.0		17				
5		CLAY with GRAVEL; gray; moist; medium stiff to stiff; (CLG)	SS 3		4-5-9 (14)	4.0		21				
5			SS 4		5-6-9 (15)	4.0		14	39	21	18	
10			SS 5		3-6-7 (13)	2.75		20				
10			SS 6		3-6-7 (13)	2.5		19				
15			SS 7		3-6-8 (14)	2.75		19				
20		SILTY CLAY with traces of gravel and sand; moist to very moist; medium stiff to stiff; - (CL-ML with gravel)	SS 8		4-4-7 (11)	2.5		17				
25			SS 9		5-6-9 (15)	4.5		21				
30		Water encountered at 48 feet	SS 10		5-11-12 (23)	4.5		13				
35			SS		7-12-14	4.5		14				

(Continued Next Page)

CLIENT URS Corporation PROJECT NAME North Branch Bicycle Trail Extension Project
 PROJECT NUMBER SAM - 12014GT PROJECT LOCATION Cook County Forest Preserve, Chicago, Illinois

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (ROD)	BLOW COUNTS (N VALUE)	POCKET PEN. (lb)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	LIQUID LIMIT (%)	PLASTIC LIMIT (%)	PLASTICITY INDEX (%)	FINES CONTENT (%)
35		SILTY CLAY with traces of gravel and sand; moist to very moist; medium stiff to stiff; - (CL-ML with gravel)	SS 11		9-13-15 (28)	4.5		15	25	9	16	
40			SS 12		16-29-32 (60)	4.5		12				
45		Water encountered at 48 feet (continued)	SS 13		17-29-33 (62)	4.5		10				
50		CLAY with Gravel; gray; moist to damp; stiff to very stiff - (CLG)	SS 14		22-31-37 (68)	4.5		22				
55			SS 15									
60			SS 16									
65		WEATHERED ROCK at 65 feet. Refusal at 65.5' Bottom of hole at 65.5 feet.	SS 16									

FILE NAME = #FILE#



USER NAME = #USER#	DESIGNED - MMZ	REVISED -
PLOT SCALE = #SCALE#	DRAWN - MMZ	REVISED -
PLOT DATE = #DATE#	CHECKED - JPM//MMH/TPG	REVISED -
	DATE - 10/20/2014	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS 3
 STRUCTURE NO. 016-P021

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	52
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHEET NO. SB-11 OF SB-11 SHEETS

Benchmark: BM #102 - Top of fire hydrant chain bolt, located at the west side of Central Ave., about 250 feet south of N. Louise Ave., Elev. 617.45

Existing Structure: None.



MICHAEL B. QUIRIN DATE 6/4/15
 LICENSED STRUCTURAL ENGINEER
 STATE OF ILLINOIS 081-6070
 EXPIRES 11/30/2015

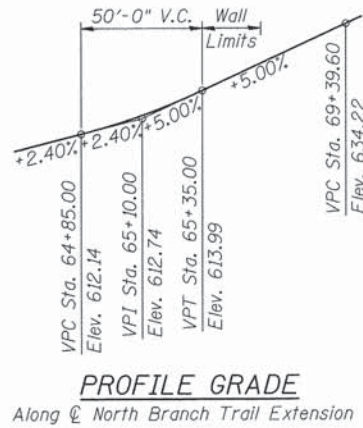
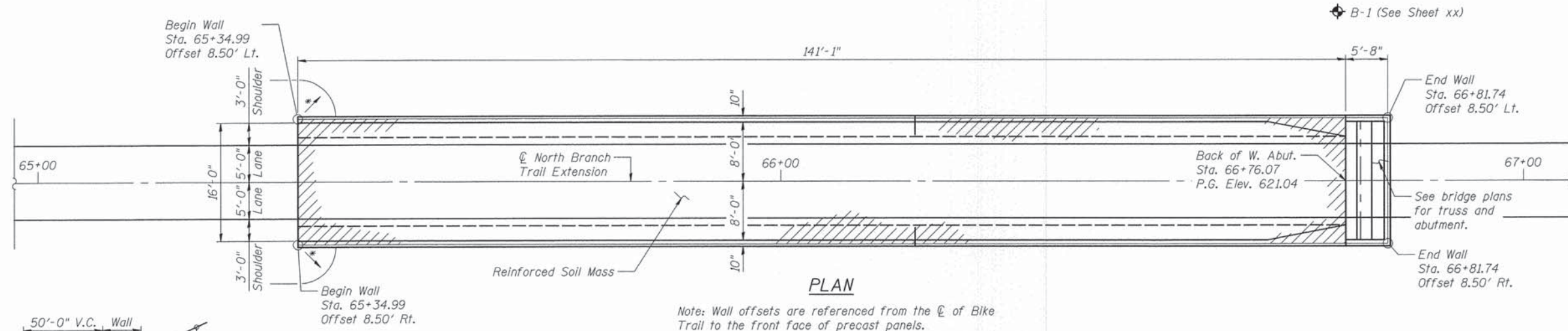
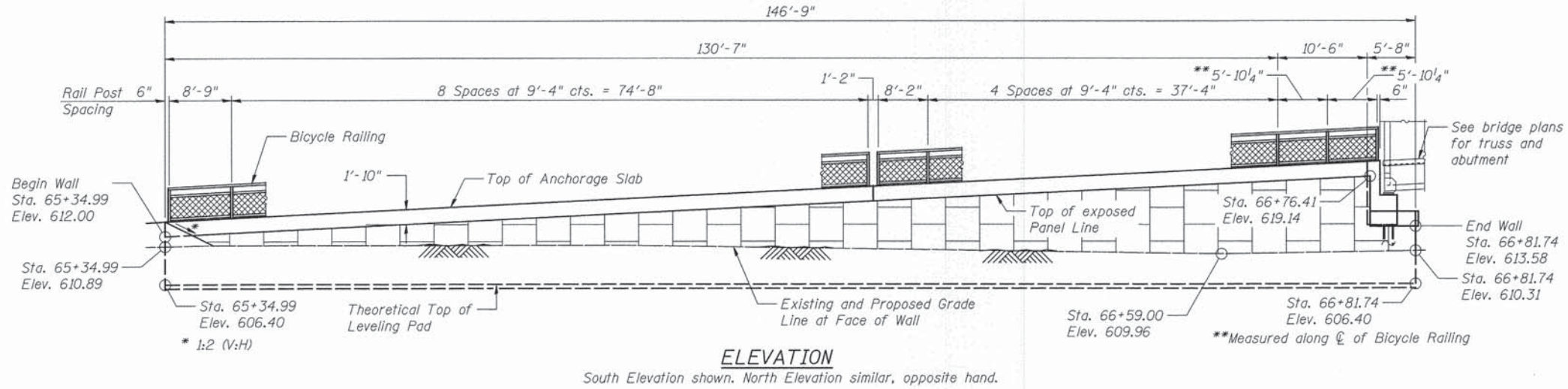
I certify that to the best of knowledge, information and belief, this design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO LRFD Bridge Design Specifications.

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 MSE Wall Details
- 3 Anchorage Slab Details
- 4 Bicycle Railing

BILL OF MATERIAL

Item	Unit	Total
Porous Granular Embankment	Cu. Yd.	106
Structure Excavation	Cu. Yd.	493
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	106
Concrete Structures	Cu. Yd.	31.0
Reinforcement Bars, Epoxy Coated	Pound	3,640
Bicycle Railing	Foot	284
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	2,793



GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

See Special Provisions for Mechanically Stabilized Earth Retaining Wall design and construction requirements.

LIVE LOADING

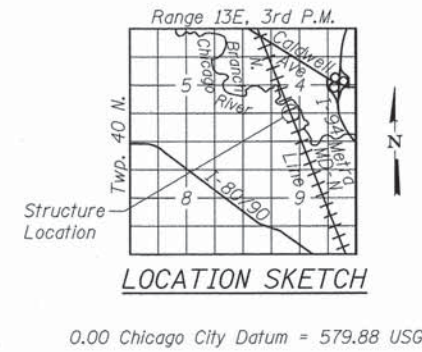
90 psf Pedestrian Live Load
 20,000 lb. Vehicle Load (H-10 Truck)

DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

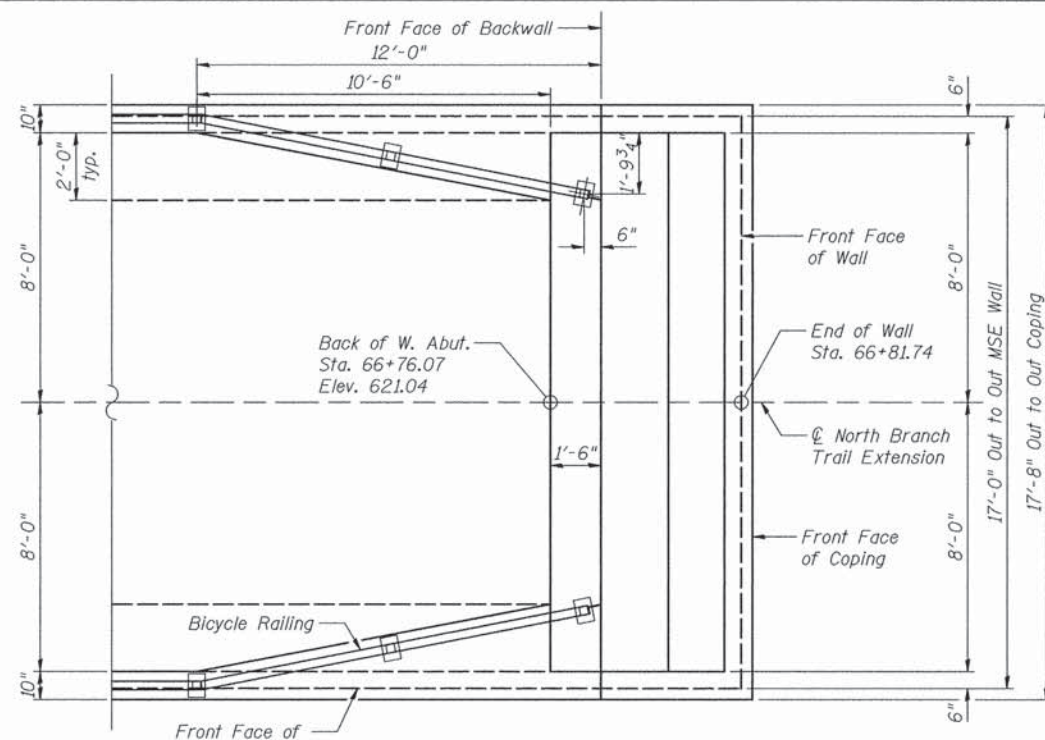
PRECAST UNITS
 $f'_c = 4,500$ psi (Precast Panels)

DESIGN SPECIFICATIONS
 2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

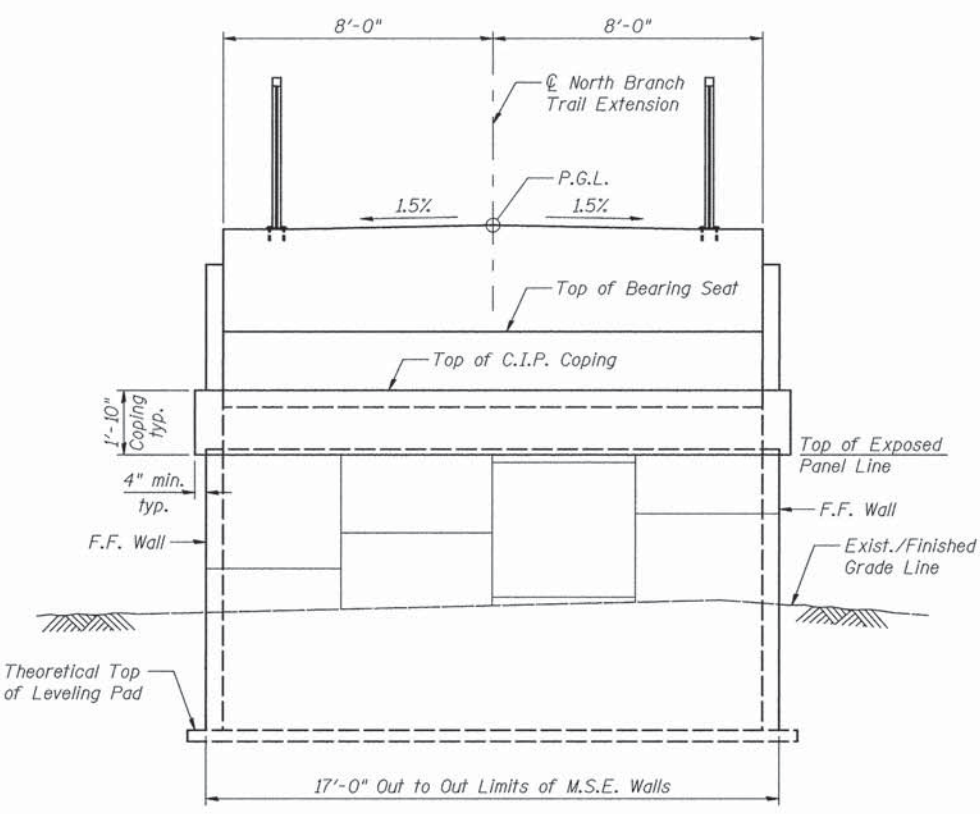


**GENERAL PLAN AND ELEVATION
 NORTH BRANCH TRAIL EXTENSION
 MSE WALL
 SECTION 08-F3000-21-BT
 COOK COUNTY
 STATION 65+34.99 TO 66+81.74**

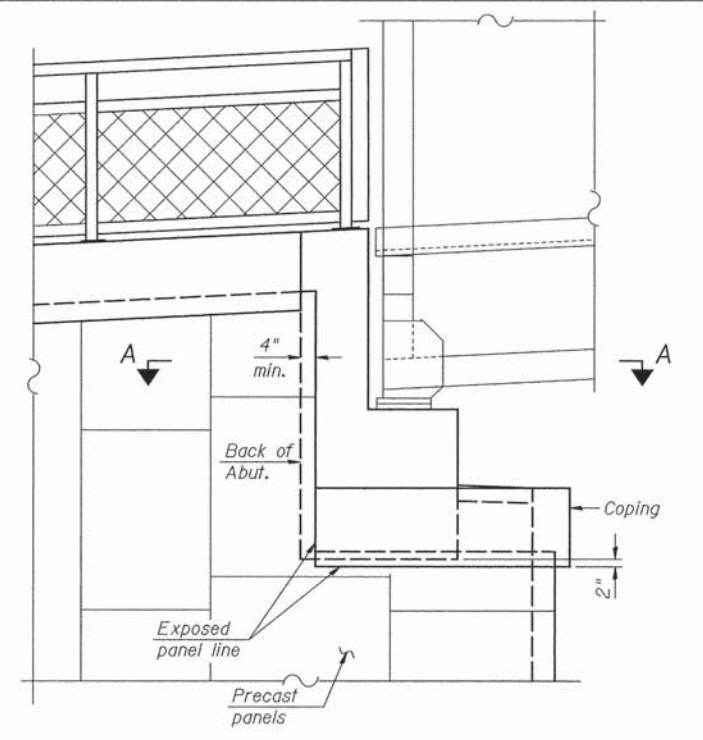
	USER NAME =	DESIGNED - BAR	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH BRANCH TRAIL EXTENSION GENERAL PLAN AND ELEVATION	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - MBQ	REVISED			08-F3000-21-BT	COOK	98	53	
	PLOT DATE =	DRAWN - BAR	REVISED							
		CHECKED - MBQ	REVISED						CONTRACT NO. 61A86	
SHEET NO. 1 OF 3 SHEETS						ILLINOIS FED. AID PROJECT				



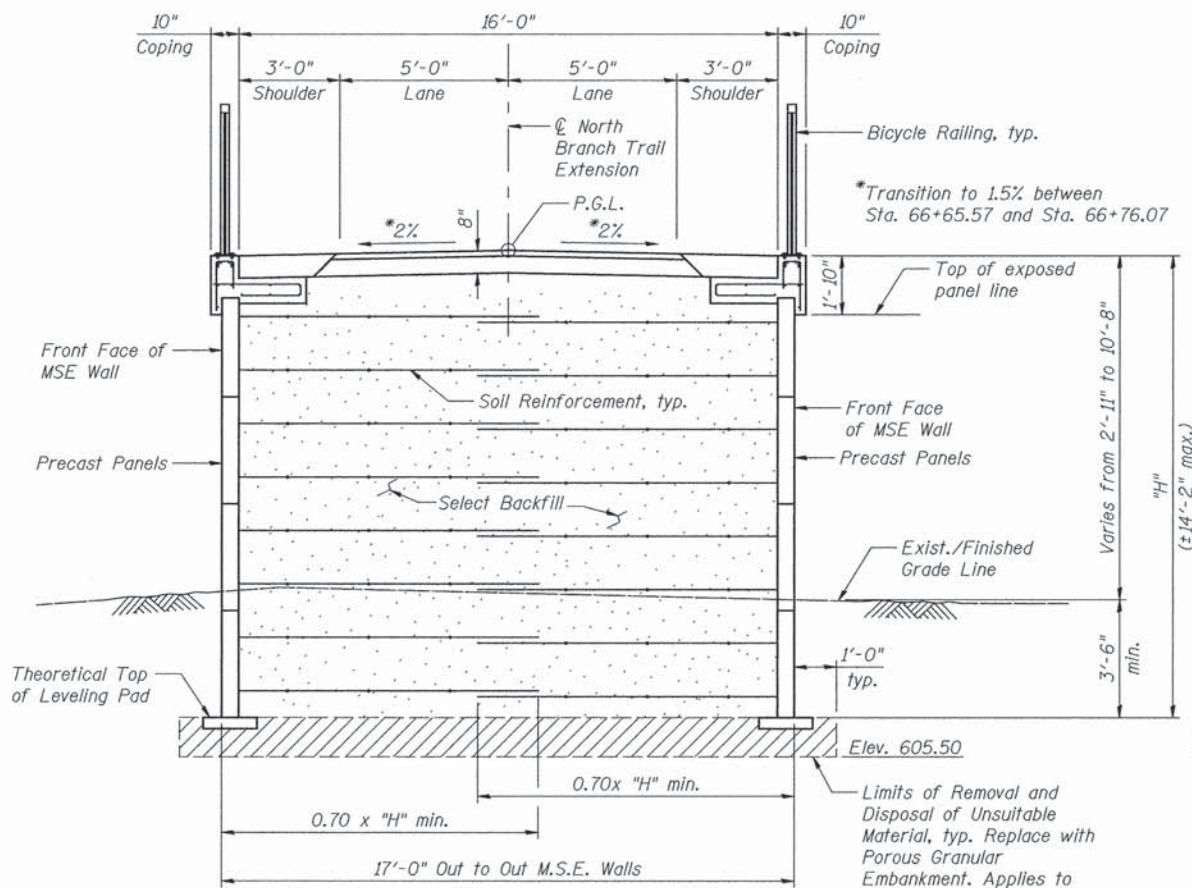
PLAN AT WEST ABUTMENT



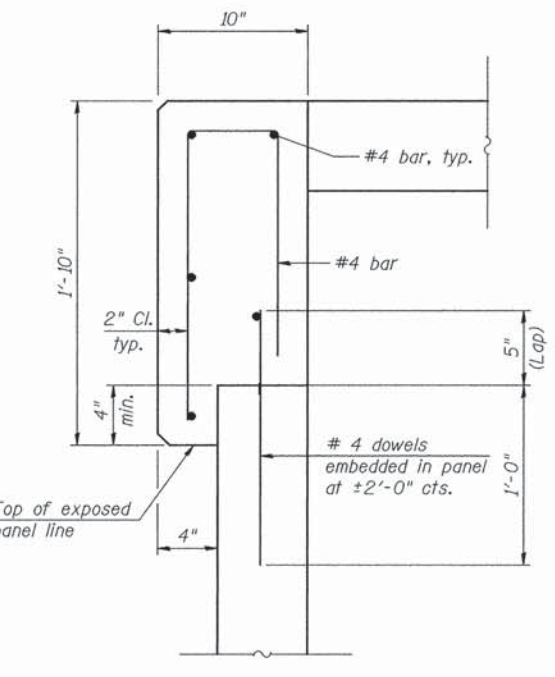
WEST ABUTMENT ELEVATION
(Showing M.S.E. Wall Details)



WEST ABUTMENT END VIEW
Looking North
Pile not shown for clarity

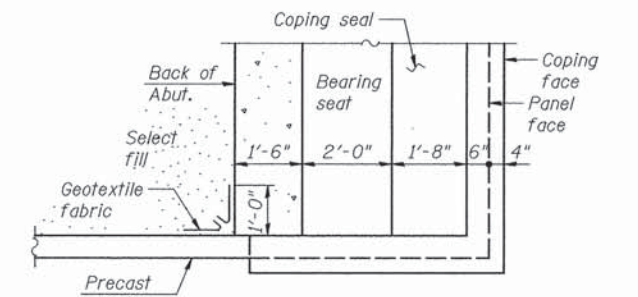


SECTION THRU M.S.E. WALL

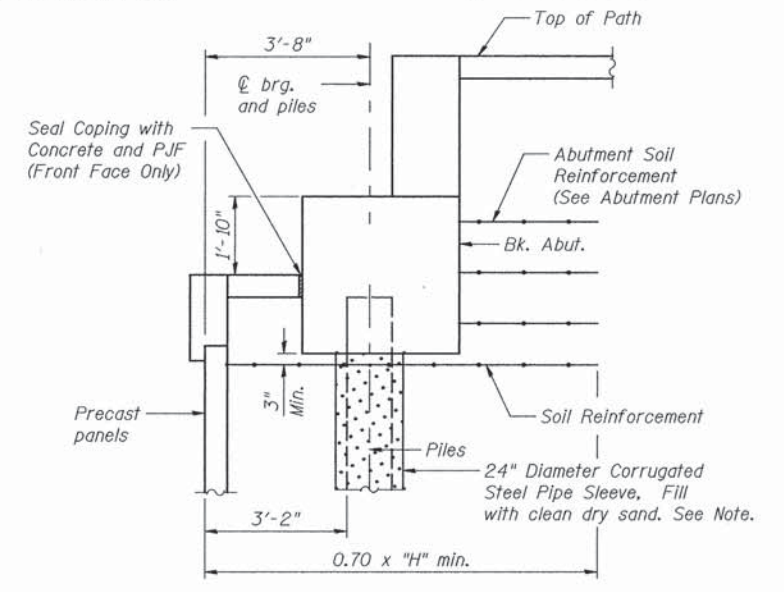


COPING DETAIL AT ABUTMENTS

PIPE SLEEVE NOTE:
Corrugated galvanized steel pipe, 10 gage minimum, shall extend from 1'-0" below the top of leveling pad to the bottom of the concrete pile cap.



SECTION A-A



SECTION THRU ABUTMENT

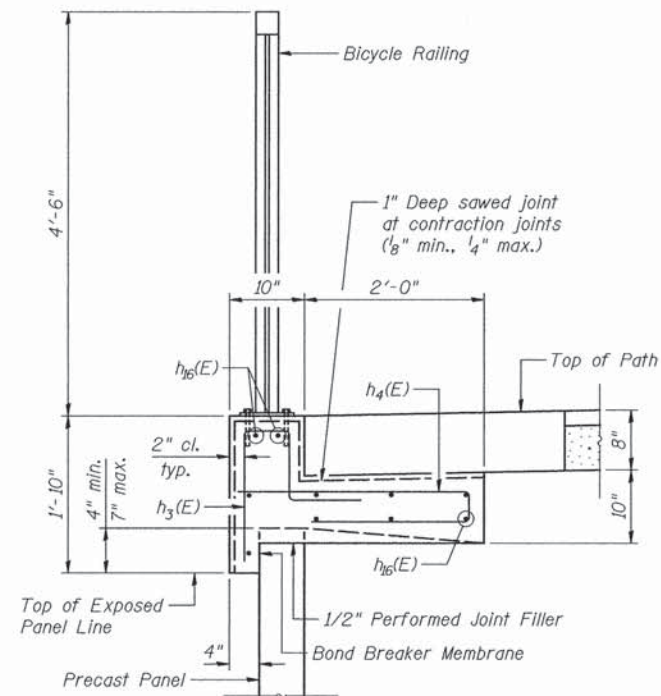


USER NAME =	DESIGNED - BAR	REVISED
PLOT SCALE =	CHECKED - MBQ	REVISED
PLOT DATE =	DRAWN - BAR	REVISED
	CHECKED - MBQ	REVISED

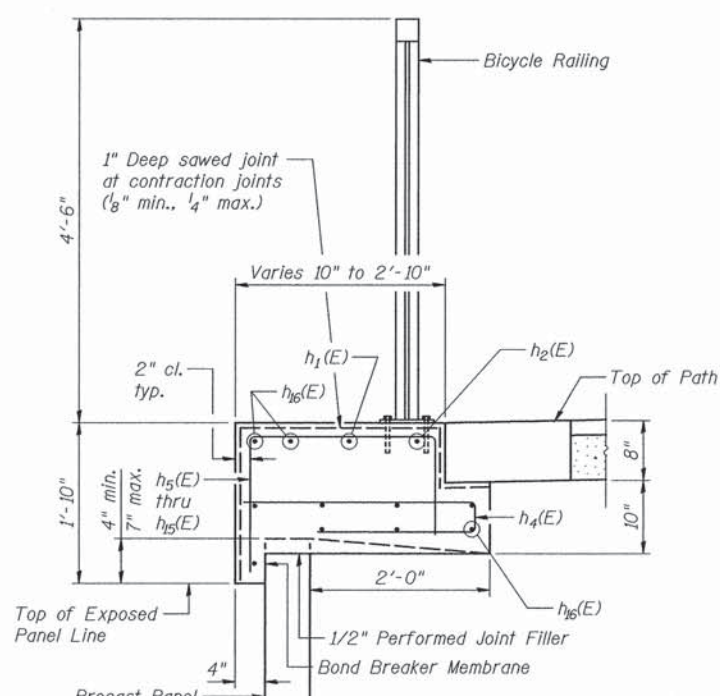
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH TRAIL EXTENSION
MSE WALL DETAILS
SHEET NO. 2 OF 3 SHEETS

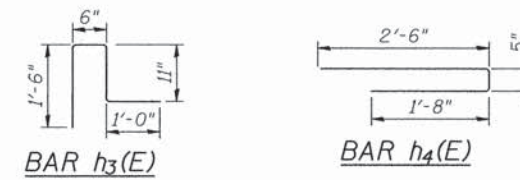
F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	54
CONTRACT NO. 61A86				
ILLINOIS FED. AID PROJECT				



SECTION A-A



SECTION B-B



BARS h5(E) thru h15(E)

A Dimensions

Bar	A
h5(E)	6"
h6(E)	8"
h7(E)	11"
h8(E)	1'-1"
h9(E)	1'-4"
h10(E)	1'-6"
h11(E)	1'-8"
h12(E)	1'-11"
h13(E)	2'-1"
h14(E)	2'-3"
h15(E)	2'-6"

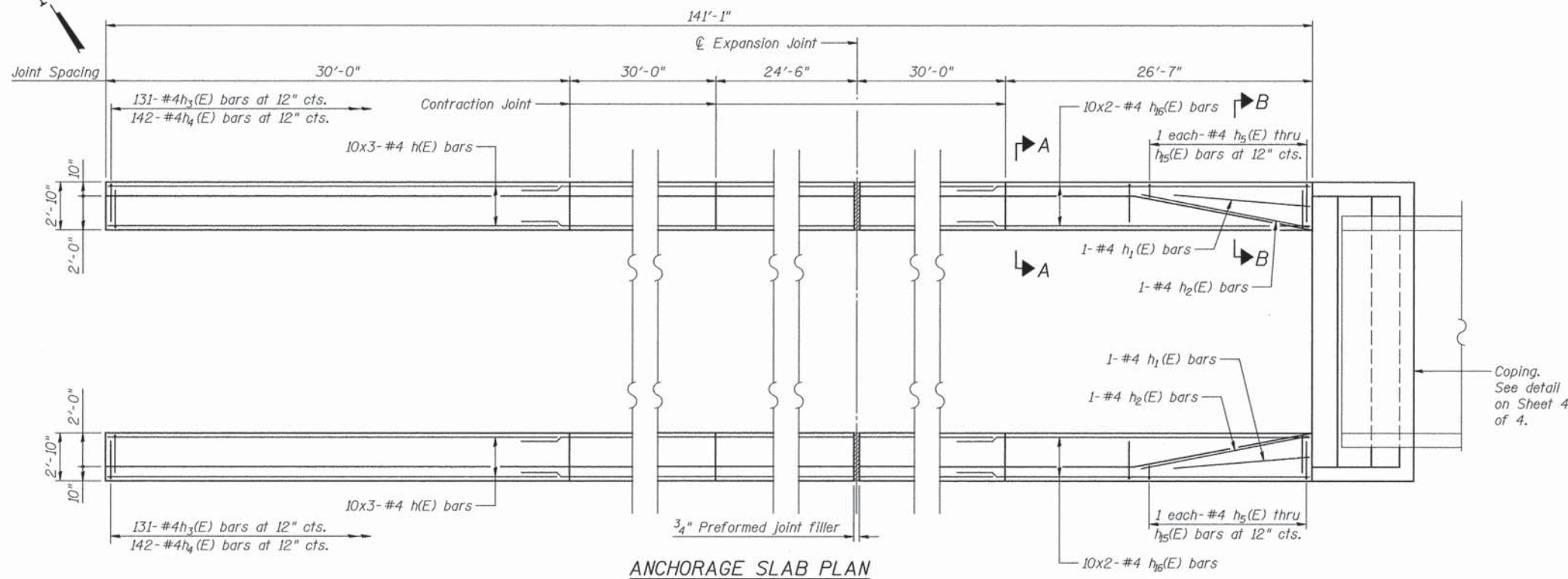
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	60	#4	30'-0"	—
h1(E)	2	#4	8'-0"	—
h2(E)	2	#4	10'-0"	—
h3(E)	262	#4	3'-11"	U
h4(E)	284	#4	4'-7"	—
h5(E)	2	#4	3'-2"	—
h6(E)	2	#4	3'-4"	□
h7(E)	2	#4	3'-7"	□
h8(E)	2	#4	3'-9"	□
h9(E)	2	#4	4'-0"	□
h10(E)	2	#4	4'-2"	□
h11(E)	2	#4	4'-4"	□
h12(E)	2	#4	4'-7"	□
h13(E)	2	#4	4'-9"	□
h14(E)	2	#4	4'-11"	□
h15(E)	2	#4	5'-2"	□
h16(E)	40	#4	29'-7"	—
Concrete Structures			Cu. Yd.	31.0
Reinforcement Bars, Epoxy Coated			Pound	3,640

Note: Bars indicated thus 10x5 - #4 etc. indicates 10 lines of bars with 5 lengths per line.

MINIMUM BAR LAP

#4 Bar = 2'-11"



ANCHORAGE SLAB PLAN



FILE NAME	USER NAME	DESIGNED - BAR	REVISED
		CHECKED - MBQ	REVISED
		DRAWN - BAR	REVISED
		CHECKED - MBQ	REVISED

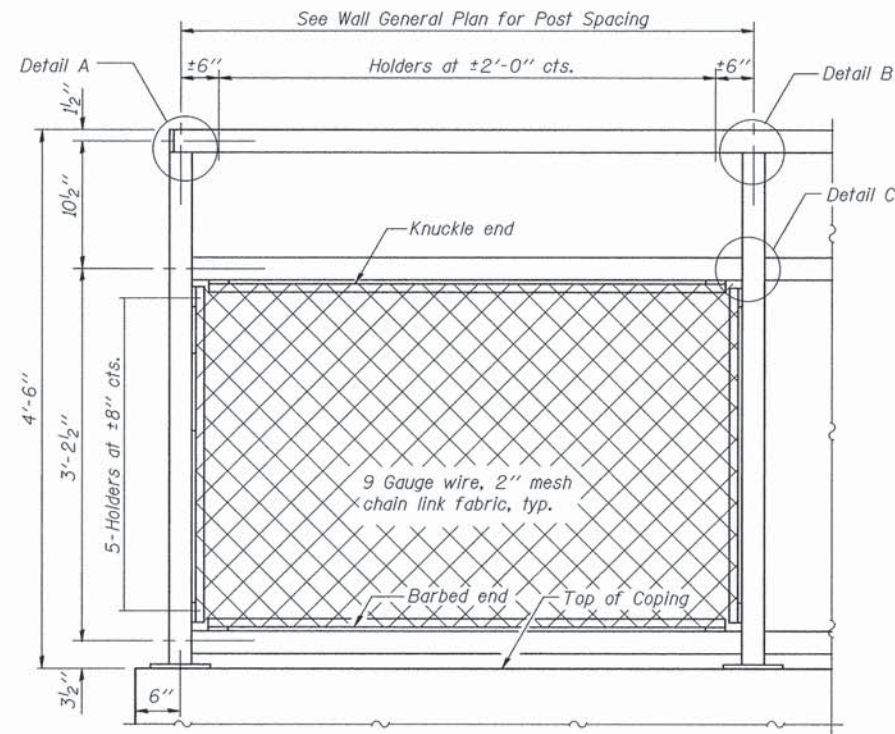
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH TRAIL EXTENSION
ANCHORAGE SLAB DETAILS

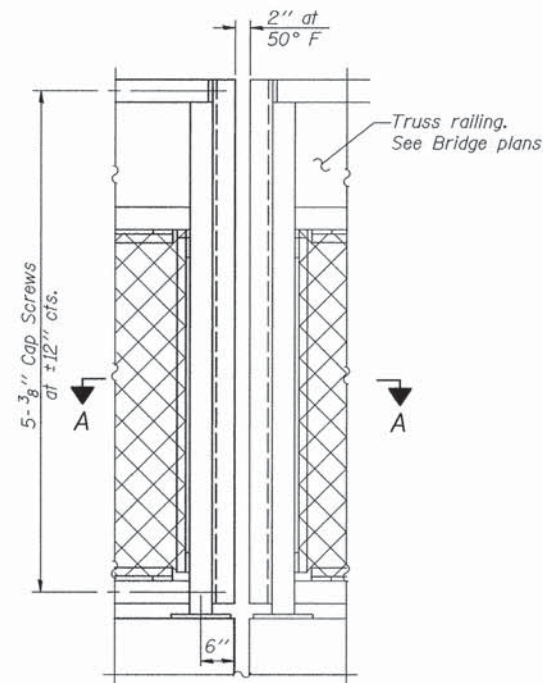
SHEET NO. 3 OF 3 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	55
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A86	

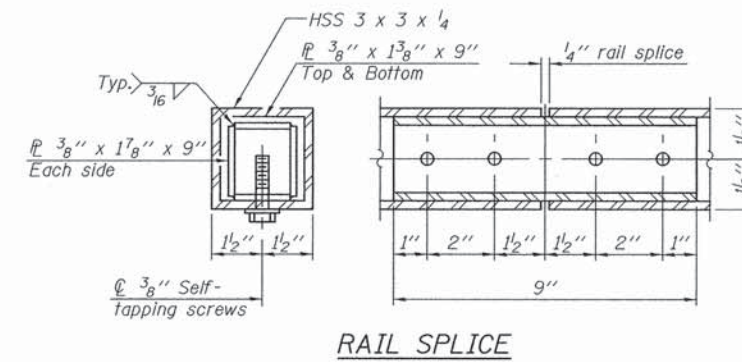
Note:
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



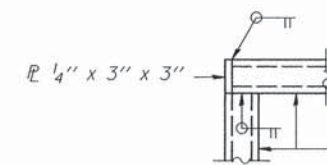
BICYCLE RAILING



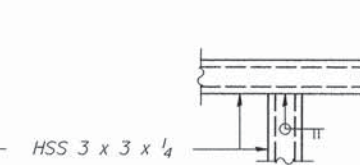
BICYCLE RAILING



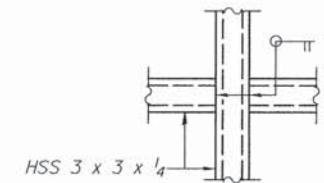
RAIL SPLICE



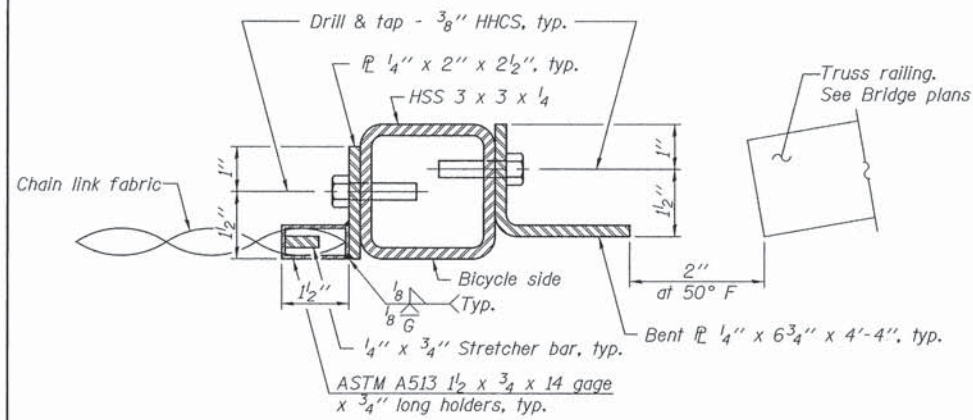
DETAIL A



DETAIL B

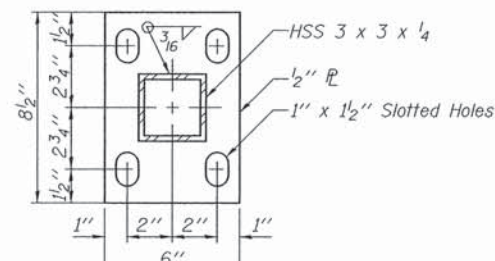


DETAIL C

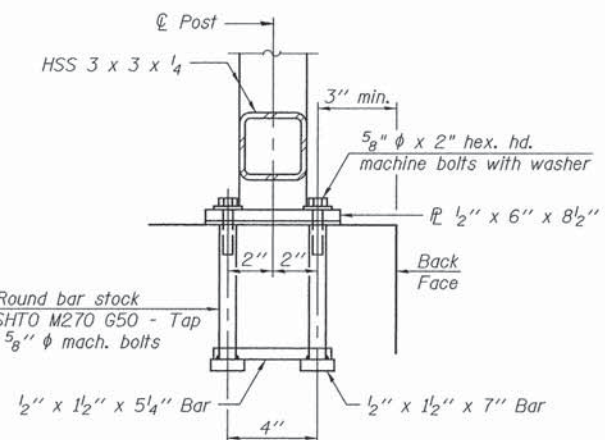
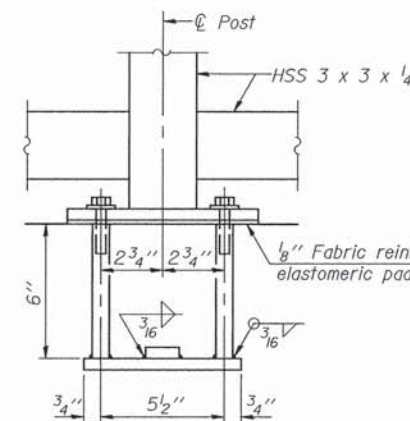


SECTION A-A

Section at Bridge Joint shown, section at Anchorage Slab expansion joint similar



BASE PL

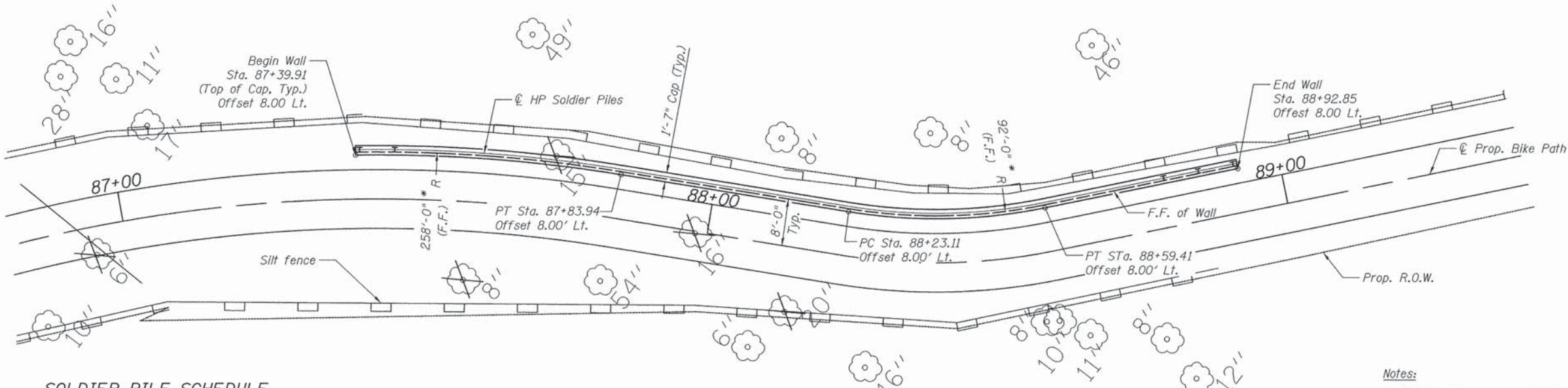
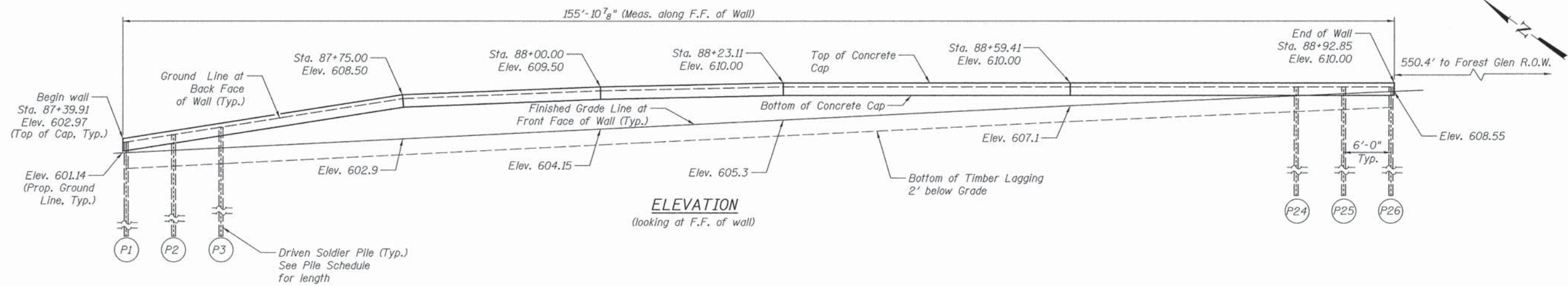


ANCHOR BOLT DETAILS

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

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	284

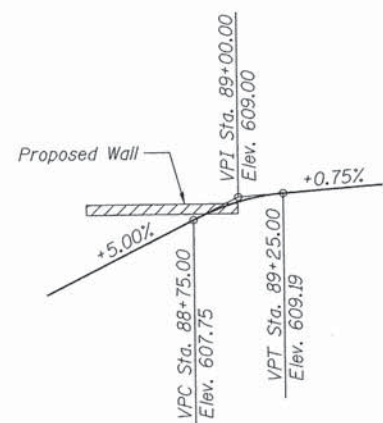


SOLDIER PILE SCHEDULE

PILE NO.	STATION	OFFSET	PILE DESIGNATION	LENGTH	BOTTOM ELEV.	TOP ELEV.
P1	87+40.58	8.42' L	HP10x42	15' - 4"	601.18	602.59
P2	87+46.38	8.42' L	HP10x42	16' - 0"	601.47	603.50
P3	87+52.19	8.42' L	HP10x42	18' - 9"	601.76	604.42
P4	87+57.99	8.42' L	HP10x42	21' - 7"	602.05	605.33
P5	87+63.80	8.42' L	HP10x42	22' - 2"	602.34	606.24
P6	87+69.60	8.42' L	HP10x57	24' - 10"	602.63	607.15
P7	87+75.41	8.42' L	HP10x57	26' - 0"	602.92	608.02
P8	87+81.21	8.42' L	HP10x57	25' - 5"	603.21	608.25
P9	87+87.11	8.42' L	HP10x57	25' - 4"	603.51	608.48
P10	87+93.11	8.42' L	HP10x57	25' - 3"	603.81	608.72
P11	87+99.11	8.42' L	HP10x57	25' - 2"	604.11	608.96
P12	88+05.11	8.42' L	HP10x57	25' - 1"	604.40	609.11
P13	88+11.11	8.42' L	HP10x57	24' - 11"	604.70	609.24
P14	88+17.11	8.42' L	HP10x57	24' - 9"	605.00	609.37
P15	88+23.11	8.42' L	HP10x57	24' - 6"	605.3	609.50
P16	88+29.66	8.42' L	HP10x42	22' - 2"	605.62	609.50
P17	88+36.22	8.42' L	HP10x42	21' - 10"	605.95	609.50
P18	88+42.77	8.42' L	HP10x42	21' - 6"	606.27	609.50
P19	88+49.32	8.42' L	HP10x42	19' - 0"	606.60	609.50
P20	88+55.87	8.42' L	HP10x42	18' - 8"	606.92	609.50
P21	88+62.18	8.42' L	HP10x42	18' - 5"	607.22	609.50
P22	88+68.18	8.42' L	HP10x42	15' - 11"	607.49	609.50
P23	88+74.18	8.42' L	HP10x42	15' - 8"	607.75	609.50
P24	88+80.18	8.42' L	HP10x42	15' - 5"	608.02	609.50
P25	88+86.18	8.42' L	HP10x42	15' - 2"	608.29	609.50
P26	88+92.18	8.42' L	HP10x42	14' - 11"	608.55	609.50

PLAN

*Wall built along straight chord between piles



PROFILE GRADE - BIKE TRAIL

Notes:

- Pile lengths are approximate and shall be determined based on layout.
- Tree root zones not to be disturbed. Caliper to root zone: 1" = 1'. An 8" diameter caliper tree will have a 8' root zone.
- Utilities to be located prior to excavating & driving

All offsets are to the left of the centerline. Stations and offsets are to the centerline of the piles unless otherwise noted.

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, (6th Edition with 2012 Interims)

DESIGN STRESSES

Field units
 $f'_c = 3,500$ psi (conc.)
 $f_b = 1,600$ psi (timber lagging)
 $f_y = 60,000$ psi (reinf.)
 $f_y = 50,000$ psi (m270 grade 50)

0.00 Chicago City Datum = 579.88 USGS

**GENERAL PLAN AND ELEVATION
 NORTH BRANCH TRAIL
 STA. 88+16.38**



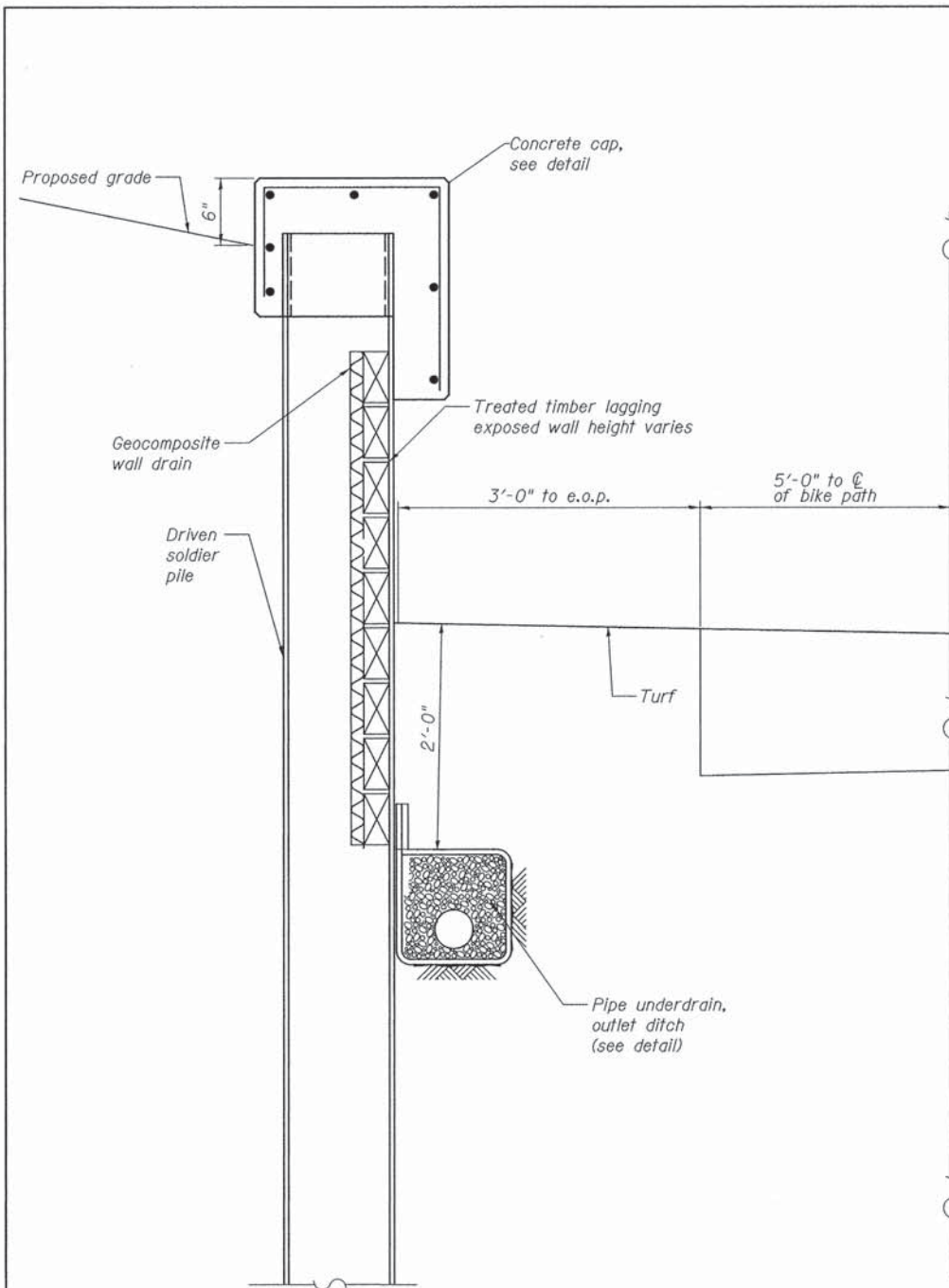
USER NAME =	DESIGNED -	REVISED
PLOT SCALE =	CHECKED -	REVISED
PLOT DATE =	DRAWN -	REVISED
	CHECKED -	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

NORTH BRANCH TRAIL EXTENSION

SHEET NO. 1 OF 3 SHEETS

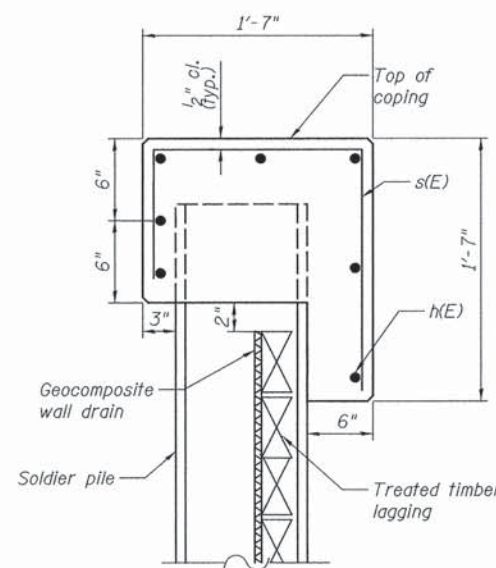
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	57
CONTRACT NO. 61A86			ILLINOIS FED. AID PROJECT	



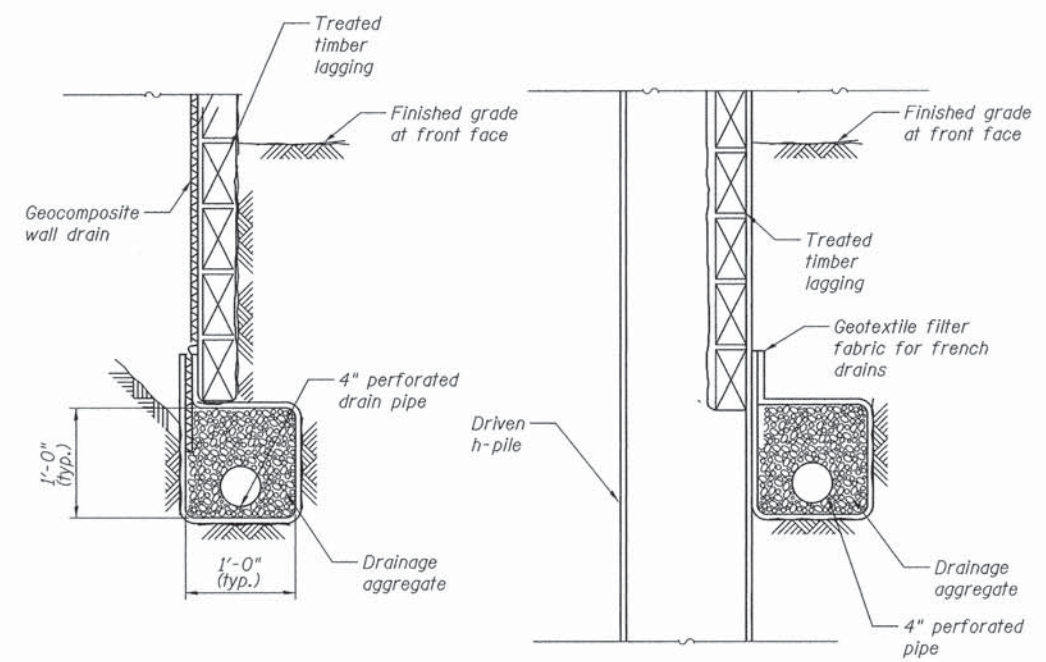
SOLDIER PILE WALL TYPICAL SECTION

Notes:

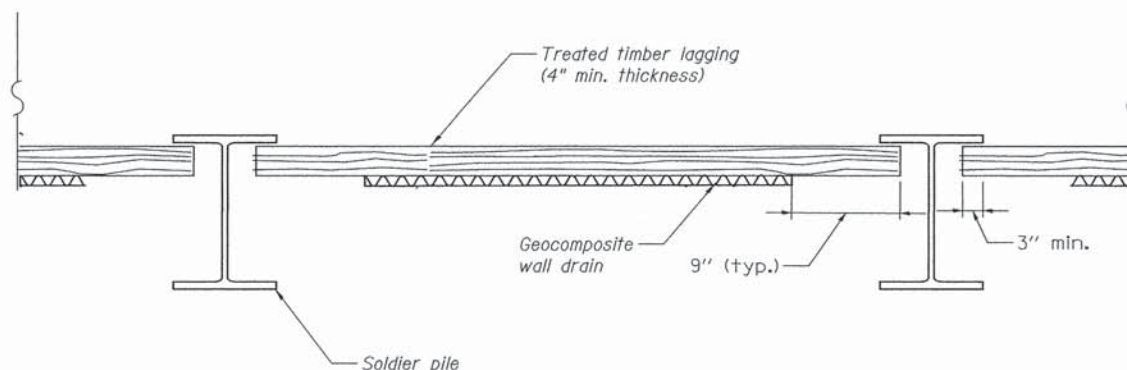
The timber lagging shall conform to articles 507 and 1007.03 of the standard specifications.
 The treated timber lagging shall be structural square cut dense southern pine or dense douglas fir.
 The drain shall be placed behind the lagging with the pervious side toward the soil according to section 591 of the standard specifications and shall be centered between the piles. The drain shall be installed in stages as the excavation proceeds downward making sure that drain splices as well as the top side edges are covered as required to protect the drain.



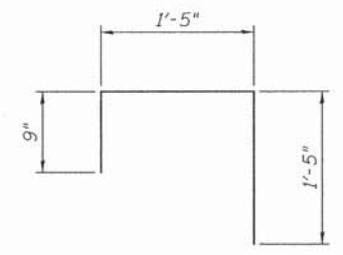
CONCRETE CAP
MINIMUM BAR LAP
 #5 BAR = 2'-11"



PIPE UNDERDRAIN DETAIL



DETAIL PLAN



BAR s(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h (E)	21	#5	32'-11"	—
h (E)	7	#5	30'-0"	—
h (E)	7	#5	37'-3"	—
s (E)	157	#5	3'-9"	□
Structure Excavation			Cu. Yd.	60
Concrete Structures			Cu. Yd.	11
Pipe Underdrain			Ft.	150
Reinforcement Bars, Epoxy Coated			Pound	1,828
Geocomposite Wall Drain			Sq. Yd.	68
Driving Soldier Piles			Feet	545
Furnishing Soldier Piles (HP Piles)			Feet	545
Treated Timber Lagging			Sq. Ft.	816



USER NAME =	DESIGNED -	REVISED
PLOT SCALE =	CHECKED -	REVISED
PLOT DATE =	DRAWN -	REVISED
	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

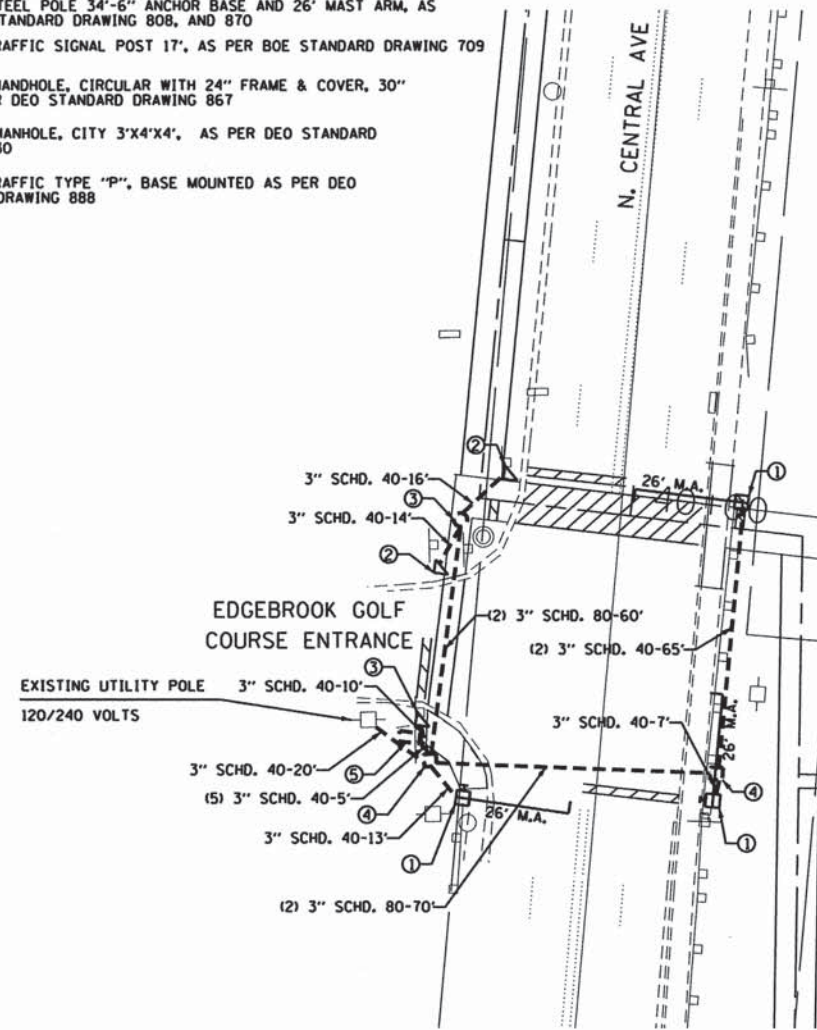
NORTH BRANCH TRAIL EXTENSION

SHEET NO. 3 OF 3 SHEETS


F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	58
			CONTRACT NO. 61A86	
ILLINOIS FED. AID PROJECT				

CONSTRUCTION & INSTALLATION NOTES

- ① INSTALL STEEL POLE 34'-6" ANCHOR BASE AND 26' MAST ARM, AS PER DEO STANDARD DRAWING 808, AND 870
- ② INSTALL TRAFFIC SIGNAL POST 17', AS PER BOE STANDARD DRAWING 709
- ③ INSTALL HANDHOLE, CIRCULAR WITH 24" FRAME & COVER, 30" I.D., AS PER DEO STANDARD DRAWING 867
- ④ INSTALL MANHOLE, CITY 3'X4'X4', AS PER DEO STANDARD DRAWING 730
- ⑤ INSTALL TRAFFIC TYPE "P", BASE MOUNTED AS PER DEO STANDARD DRAWING 888



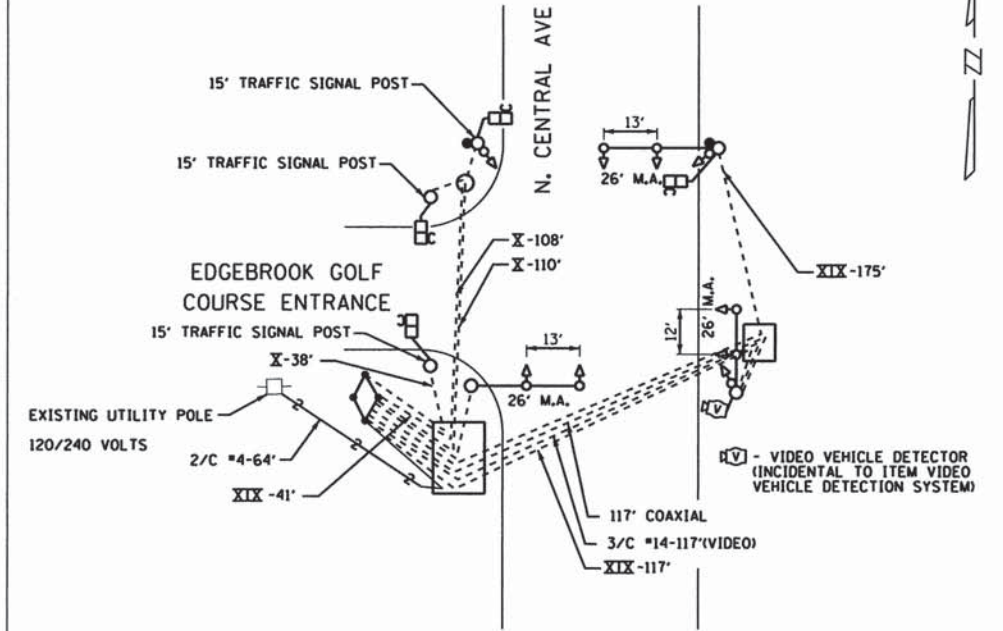
CONDUIT AND FOUNDATION PLAN
SCALE 1" = 20'

NO.	BY	DATE	DESCRIPTION
REVISIONS			
CONSULTANT:			
 GANDHI AND ASSOCIATES, INC. <small>ENGINEERS AND PLANNERS 505 S. WESTWIND SQUARE CHICAGO, ILLINOIS 60633 TEL: 773-774-590</small>			
N. CENTRAL AVE AT EDGE BROOK GOLF COURSE ENTRANCE CITY OF CHICAGO			
DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING			
DRAWN: SHM		SHEET NO.	
CHECKED: PKG			
APPROVED: PKG			
DATE: AUGUST 22, 2014			
SCALE: 1" = 20'			
CONTRACT NO.		PROJECT NO. XXXX	

GENERAL NOTES

1. ALL SIGNAL SECTIONS TO BE STANDARD 12" SIZE L.E. D. TYPE.
2. ALL VEHICULAR SIGNALS TO BE 3 OR 5 SECTION UNITS AS SHOWN ON PLANS.
3. ALL PEDESTRIAN SIGNALS TO BE 2 SECTION UNITS COUNTDOWN TYPE.
4. PEDESTRIAN SIGNALS TO BE INSTALLED BELOW VEHICULAR SIGNALS WHERE APPLICABLE.
5. ALL MAST ARMS TO BE STEEL MONOTUBE TYPE, SIZE AS INDICATED ON THE PLANS. EXISTING SERVICE CABLE TO REMAIN WHERE APPLICABLE.
6. ALL CABLES MUST BE RACKED, TRAINED AND TAGGED IN ALL MANHOLES AND HANDHOLES.
7. PVC CONDUITS SHALL BE STANDARD (3) 3" SCHD. 80 UNDER ROADWAYS AND DRIVEWAYS AND SCHD. 40 IN TRENCH, SIZE AS NOTED.
8. ALL TRAFFIC SIGNAL EQUIPMENT SHALL BE PAINTED GLOSS BLACK UNLESS OTHERWISE SPECIFIED AND APPROVED BY BOE.


DTIME#
#DATE#
#FILE#



TRAFFIC SIGNAL CABLE PLAN
N.T.S.

LEGEND

 VIDEO DETECTION CAMERA

NO.	BY	DATE	DESCRIPTION
REVISIONS			
CONSULTANT:			
 GANDHI AND ASSOCIATES, INC. <small>ENGINEERS AND PLANNERS 505 S. WESTWIND SQUARE CHICAGO, ILLINOIS 60633 TEL: 773-774-590</small>			
N. CENTRAL AVE AT EDGE BROOK GOLF COURSE ENTRANCE CITY OF CHICAGO			
DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING			
DRAWN: SHM		SHEET NO.	
CHECKED: PKG			
APPROVED: PKG			
DATE: AUGUST 22, 2014		59 of 98	
SCALE: 1" = 20'			
CONTRACT NO. 61A86		PROJECT NO. XXXX	

PROPOSED	PRESENT	
		SIGNAL, TRAFFIC 3 SECTION 1-WAY ADJUSTABLE, 12" OR AS NOTED
		SIGNAL, TRAFFIC 3 SECTION 2-WAY ADJUSTABLE, 12" OR AS NOTED
		SIGNAL OPTICALLY PROGRAMMED
		SIGNAL, PEDESTRIAN, DON'T WALK/WALK
		SIGNAL FACE ARROW, 12" COLOR AS NOTED
		SIGNAL FACE, 1 SECTION YELLOW/GREEN ARROW DUAL INDICATION
		PUSH BUTTON, PEDESTRIAN
		SIGN. ILLUMINATED, WITH MESSAGE OR SYMBOL AS INDICATED
		MAST ARM, MONOTUBE, STEEL, SIZE AS INDICATED (SEE DWG. #870)
		MAST ARM, TRUSS, ALUMINUM, SIZE AS INDICATED
		CONTROLLER, TRAFFIC SIGNAL, PEDESTAL OR BASE MOUNTED AS INDICATED
		CONTROLLER, STREET LIGHTING, PEDESTAL OR BASE MOUNTED. (DWG. #876 OR #880)
		CONTROLLER, STREET LIGHTING, POLE MOUNTED (DWG. #11940)
		POLE, WOOD, COMMONWEALTH EDISON COMPANY, SERVICE
		POLE, CITY STEEL, ANCHOR BASE, 34'-6", 7 GA., 10" DI A. AND 15"B.C. 24"X7' FND. W/1/4" ANCHOR RODS DRG. #818.
		POLE, CITY STEEL, ANCHOR BASE, 34'-6", 3 GA., 10" DIA. AND 15" B.C. 24"X9' FND. W/1/4" ANCHOR RODS DRG. #818 (16", 20' OR 26" M.A.)
		POLE, CITY STEEL, ANCHOR BASE, 34'-6", 3GA., 11" DIA. AND 17 1/4" B.C. 30"X9' FND. W/1/4" ANCHOR RODS DRG. #816. (30' M.A.)
		POLE, CITY STEEL, ANCHOR BASE 34'-6", 3 GA., 12 1/2" DIA. AND 16 1/2" B.C. 30"X11' FND. W/1/2" ANCHOR RODS DRG. #817. (35", 40' OR 44" M.A.)
		POLE, CITY STEEL, ANCHOR BASE, 32'-6", 3 GA., 10" DIA., WITH 3 GA. BAL. HSG. BASE AND 17 1/4" B.C. ON 30"X9' FND. W/ 1 1/4" ANCHOR RODS DRG. #816.
		POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6", 7 GA., WITH STEEL BAL. HSG. BASE AND FND. W/10" D. B.C. AND 1" ANCHOR RODS DRG. #716.
		POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6", 3 GA., WITH STEEL BAL. HSG. BASE AND FND. W/10" D. B.C. AND 1" ANCHOR RODS DRG. #719.
		POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6" 7 GA., AND FND. WITH 10" B.C. AND 1" ANCHOR RODS DRG. #11408B.
		POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6" 3 GA., AND FND. WITH 10" B.C. AND 1" ANCHOR RODS DRG. #11408B.
		POLE, CITY STEEL, ANCHOR BASE, 32'-6", 7 GA., AND FND. WITH 11 1/2" B.C. AND 1" ANCHOR RODS DRG. #753.
		POLE, CITY STEEL, ANCHOR BASE, 32'-6", 3 GA., AND FND. WITH 11 1/2" B.C. AND 1" ANCHOR RODS DRG. #753.
		POLE, CITY STEEL, ANCHOR BASE, 32'-6" 7 GA., ALUM. BHB AND FND. WITH 15" B.C.-24"X7' WITH 1" ANCHOR RODS DRG. #691.
		POLE, CITY STEEL, ANCHOR BASE, 32'-6", 3 GA., ALUM. BHB AND FND. WITH 15" B.C. 24"X7' WITH 1" ANCHOR RODS DRG. #691.
		POLE, CITY ALUMINUM, WITH ROUND BAL. HSG. BASE, 25', 28', OR 30' ON FND. WITH 14" B.C., ACQUIRED FROM CHICAGO PARK DISTRICT.
		POLE, CITY STEEL, EMBEDDED, 4"X 9"X 35' 7 GA., TAPERED TUBULAR. (DWG. #658)
		POLE, CITY STEEL, EMBEDDED, 4"X 9"X 35' 3 GA., TAPERED TUBULAR. (DWG. #658)
		POLE, CITY STEEL, EMBEDDED. (ACQUIRED FROM CTA)
		COLUMN, ELEVATED STRUCTURE
		POLE, WOOD. (SIZE AS NOTED)
		POLE, FOUNDATION WITH ELBOWS AS INDICATED. (SIZE AS NOTED)
		POLE, ORNAMENTAL OR OTHER, AS INDICATED ON THE PLANS

PROPOSED	PRESENT	
		HANDHOLE, HEAVY DUTY, 36" I.D. (DWG.#866)
		HANDHOLE, CIRCULAR WITH 24" FRAME & COVER, 30" I.D. (#867)
		MANHOLE, CITY 3'X4'X4' DWG. #729 OR 730; 4'X6'X6' DWG. #732 OR 733.
		FOUNDATION, CONTROLLER OR PEDESTAL, 13" B.C., 20"X5' (DWG. #709)
		FOUNDATION, TRAFFIC CONTROLLER DWG. #854, F.A. TERMINAL FND. DWG. #11972
		FOUNDATION, TRAFFIC TYPE "P", BASE MOUNT. (DWG. #888)
		FOUNDATION, CONTROLLER STREET LIGHT, SPECIAL, 100A & 200A. (DWG.#876 & # 880)
		FOUNDATION, TRANSCLOSURE; TRANSCLOSURE HOUSING. (DWG.# 583 & #891)
		CONTROLLER, UNDERPASS LIGHTING 120V. & 240V. (DWG. #860 & #861)
		MANHOLE, UTILITY, E=COMMONWEALTH EDISON; T=ILL. BELL TEL.; G=PEOPLES GAS; W=CITY WATER; P=CHGO PARK DISTRICT; CTA=C.T.A.; S=SEWER
		JUNCTION BOX, IN PAVEMENT (DWG. #815)
		DETECTOR LOOP IN PAVEMENT
		CONDUIT OR P.V.C., NUMBER, SIZE & TYPE. (AS NOTED)
		CONDUIT OR P.V.C. ENCASED IN CONCRETE. (SECTION OR NUMBER OF CONDUIT INDICATED)
		LUMINAIRE, H.P.S.V. 400W LAMP, 240V, SEMI-CUTOFF
		LUMINAIRE, H.P.S.V. 400W LAMP, 240V, CUTOFF
		LUMINAIRE, H.P.S.V. 310W LAMP, 240V
		LUMINAIRE, H.P.S.V. 310W LAMP, 240V, CUTOFF
		LUMINAIRE, H.P.S.V. 150W LAMP, 240V
		LUMINAIRE, H.P.S.V. 150W LAMP, 120V
		LUMINAIRE, H.P.S.V. 250W LAMP, 120V, (ALLEY LIGHT)
		LUMINAIRE, H.P.S.V. 250W LAMP, 120V
		TERMINAL, CABINET F.A. & P.C.
		FIRE ALARM BOX, MOUNTED
		FIRE ALARM BOX, POLE MOUNTED
		CABLE, TRAFFIC SIGNAL, COMMUNICATION, 1-PAIR #14 SHIELDED, IN CONDUIT
		CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2/C-#4, 600 V. EPR. IN CONDUIT
		CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2 1/C-#2 OR #1/0 600V. EPR IN CONDUIT
		CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2/C-#10 OR #6, 600V NSRI. IN CONDUIT
		CABLE, TRAFFIC SIGNAL, 7/C-#12 OR #14, 600V, EPR IN CONDUIT
		CABLE, TRAFFIC SIGNAL, 10/C-#12 OR #14, 600V, EPR IN CONDUIT
		CABLE, TRAFFIC SIGNAL, 14/C-#12 600V. EPR IN CONDUIT
		CABLE, TRAFFIC SIGNAL, 19/C-#12 OR #14, 600V, EPR IN CONDUIT
		CABLE, STREET LIGHT, 2 1/C-#6, 600V. RINS IN PARKWAY
		CABLE, STREET LIGHT, 2 1/C-#6, 600V. RINS IN CONDUIT
		CABLE, STREET LIGHT, 2 1/C-#6 EPRN 600V. & 1 1/C-#8 GREEN, TRIPLEXED, IN CONDUIT
		CABLE, STREET LIGHT, 3 1/C-#1/0, OR #2/0, OR #4, 600V. EPR IN CONDUIT
		WIRE, STREET LIGHT, 2 1/C-#6, HDNS. AERIAL
		WIRE, STREET LIGHT, 2 1/C-#6 & 1 1/C #8, HDNS. AERIAL
		CABLE, STREET LIGHT AERIAL, 3 1/C-#4 OR #2 SELF SUPPORTING, 600V EPR
		WIRE, F.A. & P.C. AERIAL, 1/C-#10, NUMERAL DENOTES QUANTITY AS INDICATED)
		CABLE, F.A. & P.C. AERIAL, W/ MESSENGER #19-(NUMBER OF PAIRS AS INDICATED)
		CABLE, F.A. & P.C. AERIAL, SELF SUPPORTING, #19-(NUMBER OF PAIRS AS INDICATED)
		CABLE, F.A. & P.C., IN CONDUIT, #19-(NUMBER OF PAIRS AS INDICATED)
		DOWNLIGHT ASSEMBLY. (DWG. #850)
		LIGHT, TRAFFIC SAFETY ISLAND
		FLASHING BEACON & DOWNLIGHT

ORNAMENTAL LUMINAIRES		
PROPOSED	EXISTING	
		310W PENDANT (240V)
		400W PENDANT (240V)
		250W PENDANT (240V)
		150W ACORN (120V)
		150W ACORN (240V)
		50W ACORN (240V)
		100W ACORN (240V)
		150W GLOBE (240V)
		100W GLOBE (240V)
		50W GLOBE (240V)

C 04-01-02	REVISED/REDRAW	R. POOL/B.I.
B 12-4-01	ADDED ORNAMENTAL SYMBOLS	
A 8-6-96	REDRAWN	
DATE	REVISION	
STANDARD CODE FOR TRAFFIC SIGNALS/ STREET LIGHTING		
CITY OF CHICAGO DEPT. OF STREET AND SANITATION BUREAU OF ELECTRICAL ENGINEERING DIVISION OF ELECTRICAL ENGINEERING		
DRAFTSMAN: R. IVY	CHIEF DRAFTSMAN: R. CARTER	ENGINEER: R. POOL/R.C./W.T.
SUPERVISING ENGINEER: ELEC. DESIGN ENGR.	DWG. NO. 826	
ENGINEER OF ELECTRICITY: GENL. SUPERV. OF CONSTRUCTION:	DATE:	
DEPUTY SUPERVISING ENGINEER: Blair Schaeffer	SCALE:	



USER NAME = #USER#	DESIGNED - PMV	REVISED -
PLOT SCALE = #SCALE#	DRAWN - PMV	REVISED -
PLOT DATE = #DATE#	CHECKED - NPP	REVISED -
	DATE - 6/22/15	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**NORTH BRANCH BIKE TRAIL EXTENSION
CDOT DETAILS**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	60
CONTRACT NO. 61A86				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

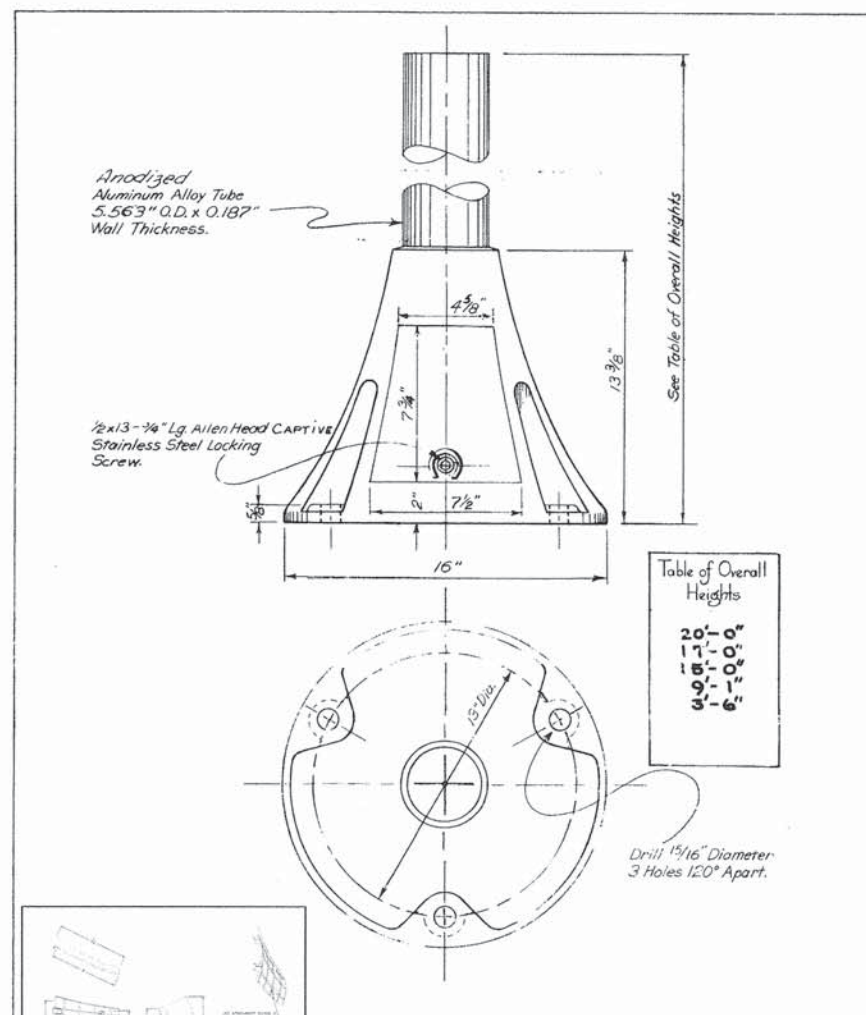
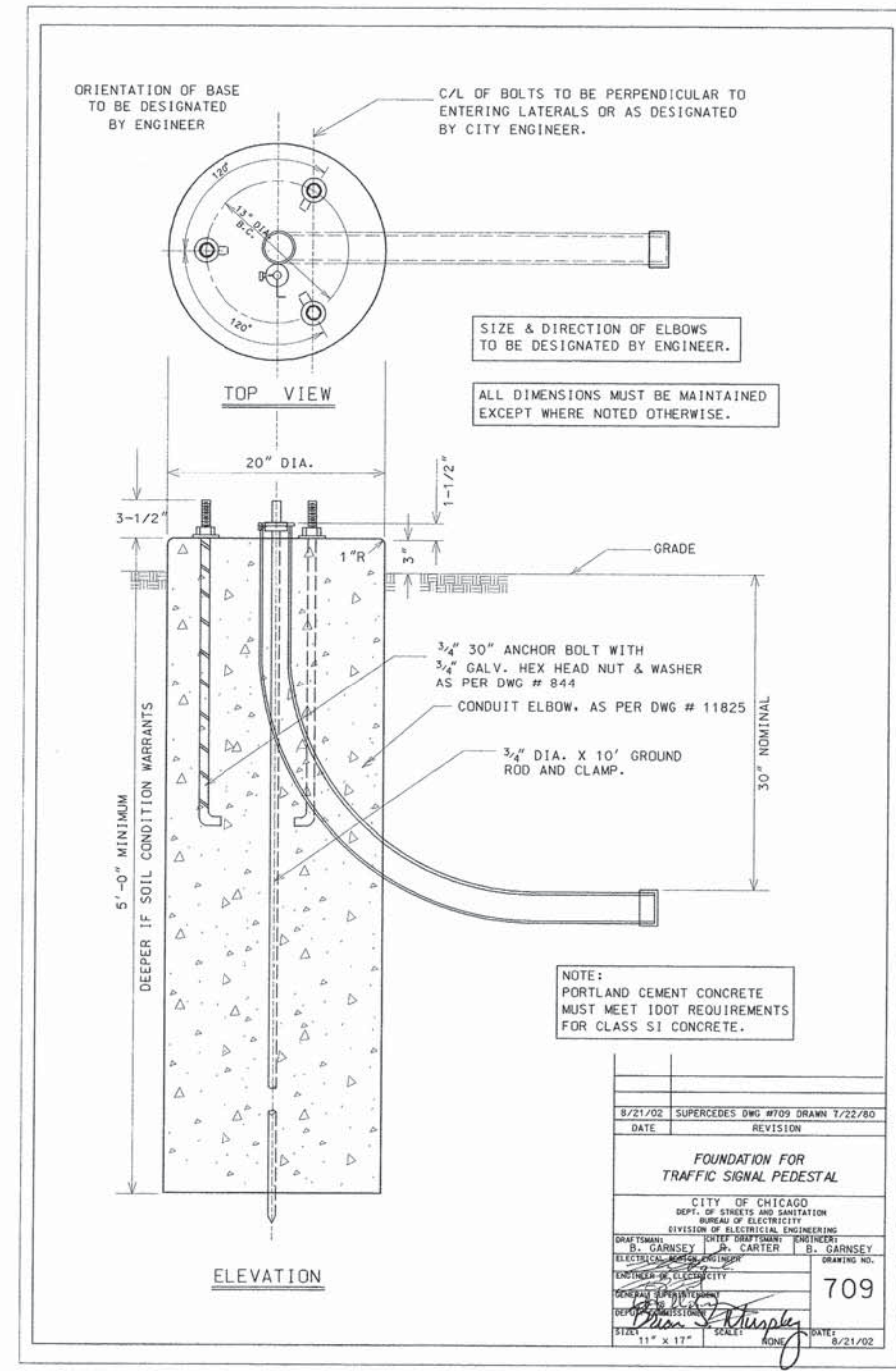


Table of Overall Heights

20'-0"
17'-0"
15'-0"
9'-1"
3'-6"

ALUMINUM PEDESTAL BASE WITH HANDHOLE
for
Street Lighting Controller, Traffic Signal
Controller and Traffic Signal Heads.

REVISED		CITY OF CHICAGO DEPT. OF STREETS AND SANITATION DIVISION OF ELECTRICAL ENGINEERING	
J CHANGED OVERALL HEIGHTS 3-22-81		DRAWN	CHECKED
Revised Table of Overall Heights	A 5-5-60	R. COLLEY	J. BORE
Revised O.D. of Pedestal	B 6-30-60		Ruzicka
Revised Specification Number	C 12-21-60		DRG. NO. 526
REVISED TABLE OF OVERALL HEIGHTS	D 3-23-62		
REVISED DOOR DIMENSIONS	E 6-4-64		
Revised Overall Heights	F 7-14-71		
REVISED OVERALL HEIGHTS	G OCT 26, 73		



NOTE:
PORTLAND CEMENT CONCRETE
MUST MEET 100T REQUIREMENTS
FOR CLASS S1 CONCRETE.

8/21/02	SUPERCEDES DWG #709 DRAWN 7/22/80
DATE	REVISION
FOUNDATION FOR TRAFFIC SIGNAL PEDESTAL	
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING	
DRAWN BY: D. GARNSEY	CHECKED BY: J. CARTER
ELECTRICAL ENGINEER	ENGINEER
DRG. NO. 709	DRAWING NO.
DATE: 8/21/02	SCALE: NONE



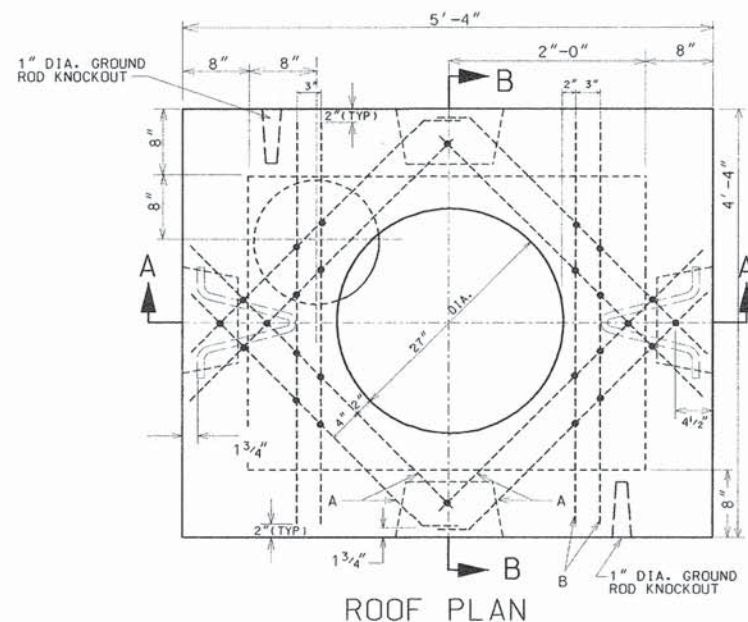
USER NAME = #USER#	DESIGNED -	REVISED -
PLOT SCALE = #SCALE#	DRAWN -	REVISED -
PLOT DATE = #DATE#	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH BIKE TRAIL EXTENSION
CDOT DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	61
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FILE NAME = #FILE#



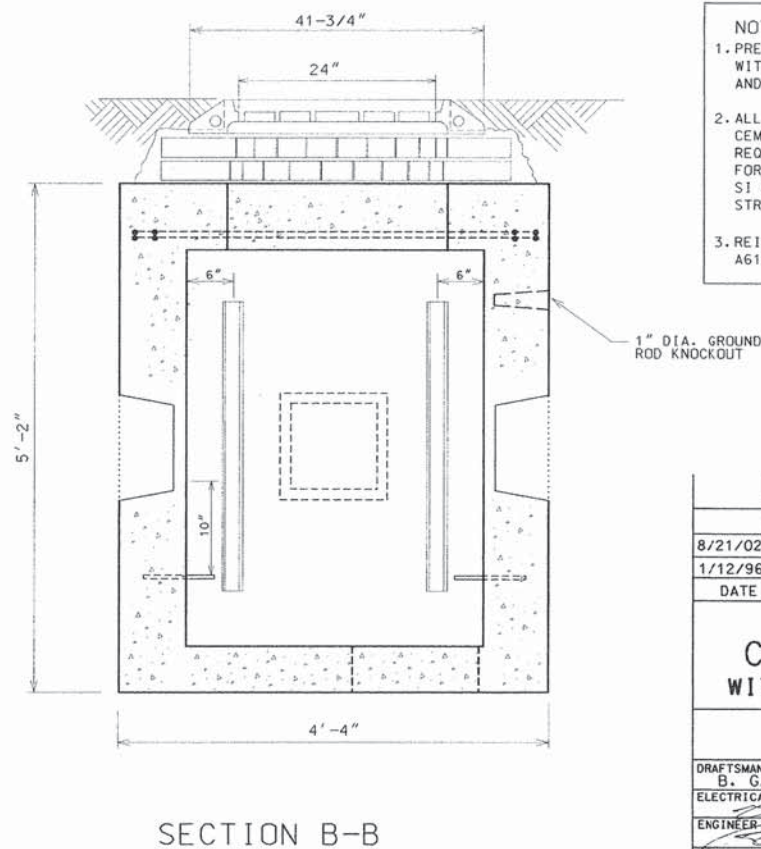
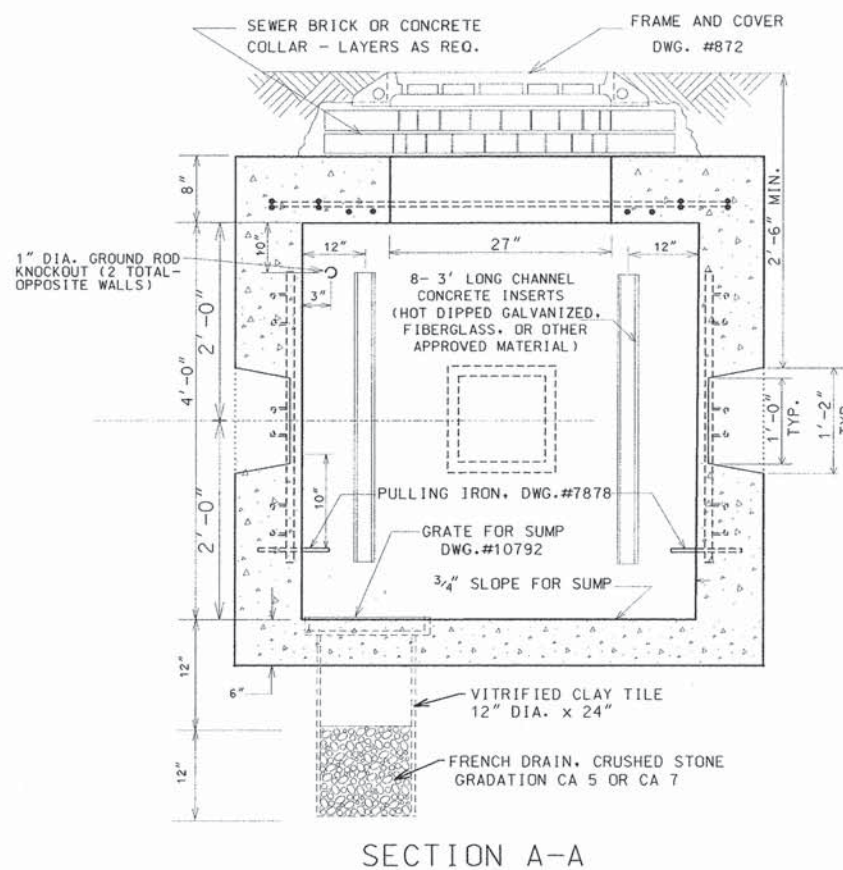
EXCAVATION (CONSTRUCTION INFORMATION)	
COMPLETE MANHOLE	6.0 CU. YDS.
NEW ROOF ONLY	2.0 CU. YDS.
SHEETING MANHOLE	150.0 SQ. FT.

#5 REINFORCING BARS			
BAR	LENGTH	NO. OF RODS	TOTAL FT.
A	3'-4"	4	13'-4"
B	4'-0"	10	40'-0"

MATERIALS FOR ROOF ONLY	
CONCRETE	0.45 CU. YDS.
REINFORCING BARS #5	54'

DRG.	MATERIAL	CODE	SIZE	No. Req.
	FORM FOR MANHOLE	17-6674-6000 17-6648-5320	3x4x4	1
	CONDUIT END BELL		AS REQ.	
	TILE, SEWER	39-4038-3200	12"x24"	1
	SLAB BOLSTER		2"	20'
	BAR, REINFORCING	20-5472-9650	3/8" ø	54'
	TIE WIRE	13-9938-6106	#20GA.	35'
7878	PULLING IRON	02-4483-6970	3/4" ø	2
	CONCRETE	05-3267-2940	3 CU. YDS	
	SEWER BRICK	05-1452-9720	STD.	50
'0792	GRATE FOR SUMP	02-4368-7100	15" ø	1
	GROUND ROD	09-7796-9200	3/4"x10'	1
	GROUND ROD CLAMP	09-2636-3240	3/4"	1
	CRUSHED STONE	05-9057-5471	3/4"	TWO BAGS
872	MANHOLE FRAME	02-4299-5524	24"	1
872	MANHOLE COVER	02-4574-5040	24"	1
	CONC. CHANNEL INSERT	02-4574-5040	3'	8

- NOTES:
1. PRECAST MANHOLES MUST BE PROVIDED WITH CHANNEL INSERTS, PULLING IRONS, AND CONDUIT KNOCK-OUTS.
 2. ALL CONCRETE MUST BE PORTLAND CEMENT CONCRETE MEETING IDOT REQUIREMENTS FOR CLASS PC CONCRETE FOR PRE-CAST STRUCTURES, OR CLASS S1 CONCRETE FOR CAST-IN-PLACE STRUCTURES.
 3. REINFORCING BARS MUST MEET ASTM A615 GRADE 60.



8/21/02	SUPERCEDES DWG. 730 DATED JAN 12, 1996
1/12/96	SUPERCEDES DWG. 730 DATED NOV. 21, 1973
DATE	REVISION
3' x 4' x 4'	
CONCRETE MANHOLE	
WITH 24" FRAME AND COVER	
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING	
DRAFTSMAN: B. GARNSEY	ENGINEER: B. GARNSEY
CHIEF DRAFTSMAN: R. CARTER	DRAWING NO. 730
ELECTRICAL DESIGN ENGINEER	DATE: 8/21/02
ENGINEER OF ELECTRICITY	
GENERAL SUPERINTENDENT	
DEPUTY COMMISSIONER	
SIZE: 17" x 22"	SCALE: NONE

FILE NAME = BFILE#



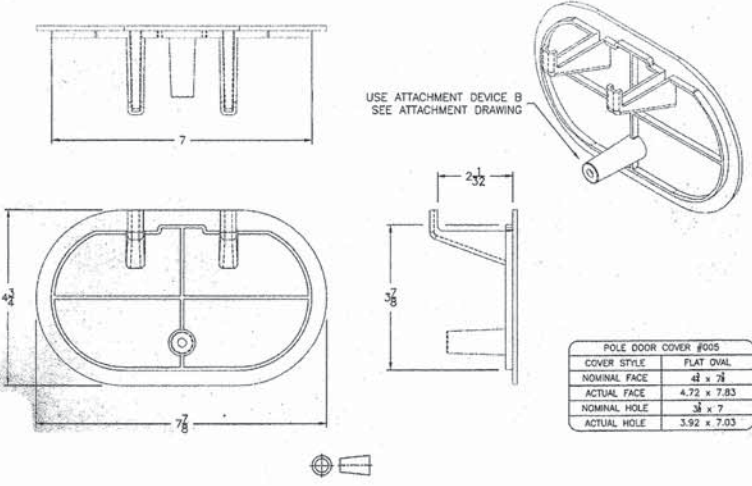
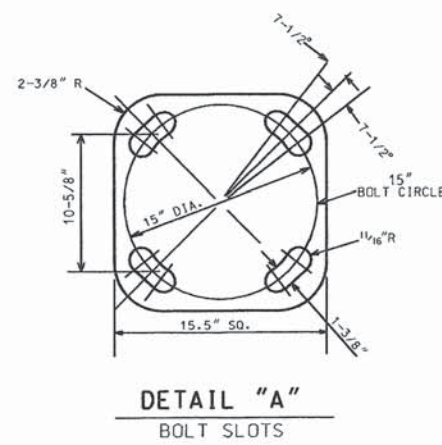
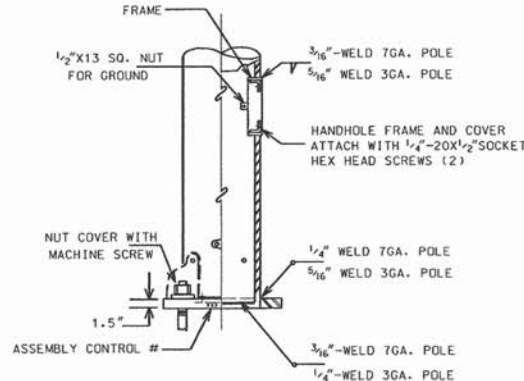
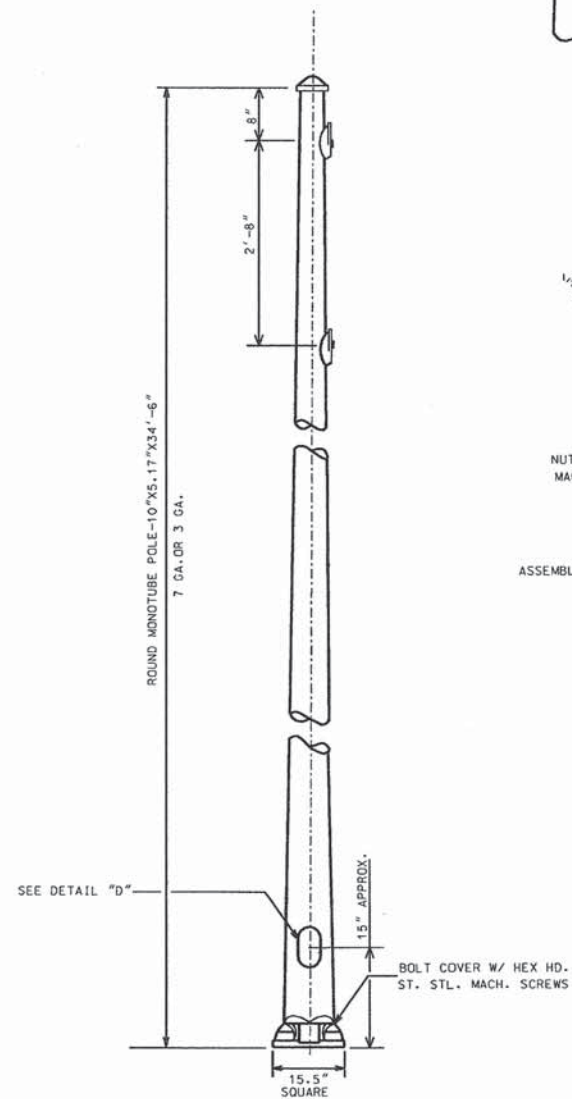
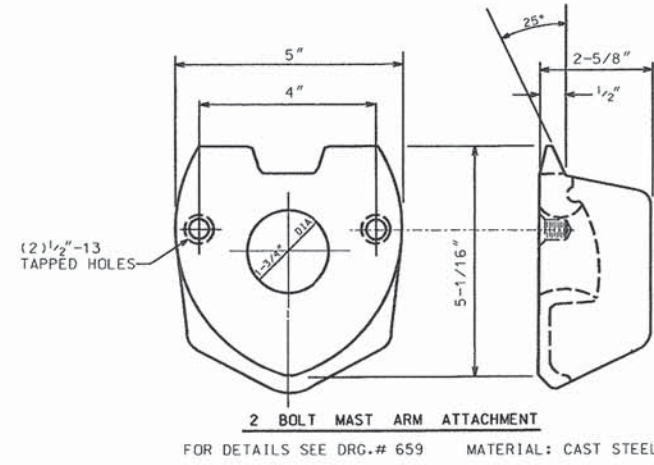
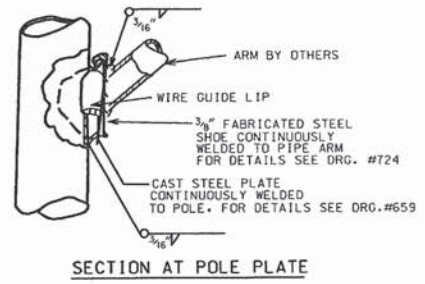
USER NAME = #USER#	DESIGNED - -	REVISED -
PLOT SCALE = #SCALE#	DRAWN - -	REVISED -
PLOT DATE = #DATE#	CHECKED - -	REVISED -
	DATE - -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**NORTH BRANCH BIKE TRAIL EXTENSION
CDOT DETAILS**

SCALE:	SHEET NO. OF SHEETS STA. TO STA.
--------	----------------------------------

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	62
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 61A86		



POLE DOOR COVER #605	
COVER STYLE	FLAT OVAL
NOMINAL FACE	4 x 7 1/2
ACTUAL FACE	4.72 x 7.83
NOMINAL HOLE	3 1/2 x 7
ACTUAL HOLE	3.92 x 7.03

5.17"x10.0" STEEL/34'-6" POLE
7 OR 3 GAUGE

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN: ROBERT IVY	CHIEF DRAFTSMAN: ROBERT CARTER	ENGINEER: RON POOL
SUPERVISING ENGINEER:	ELEC. DESIGN ENGR.	DWG. NO.
ENGINEER OF ELECTRICITY:		808
GEN'L SUPT. OF ELECTRICITY:		
DEPUTY COMMISSIONER:		
		10-03-01

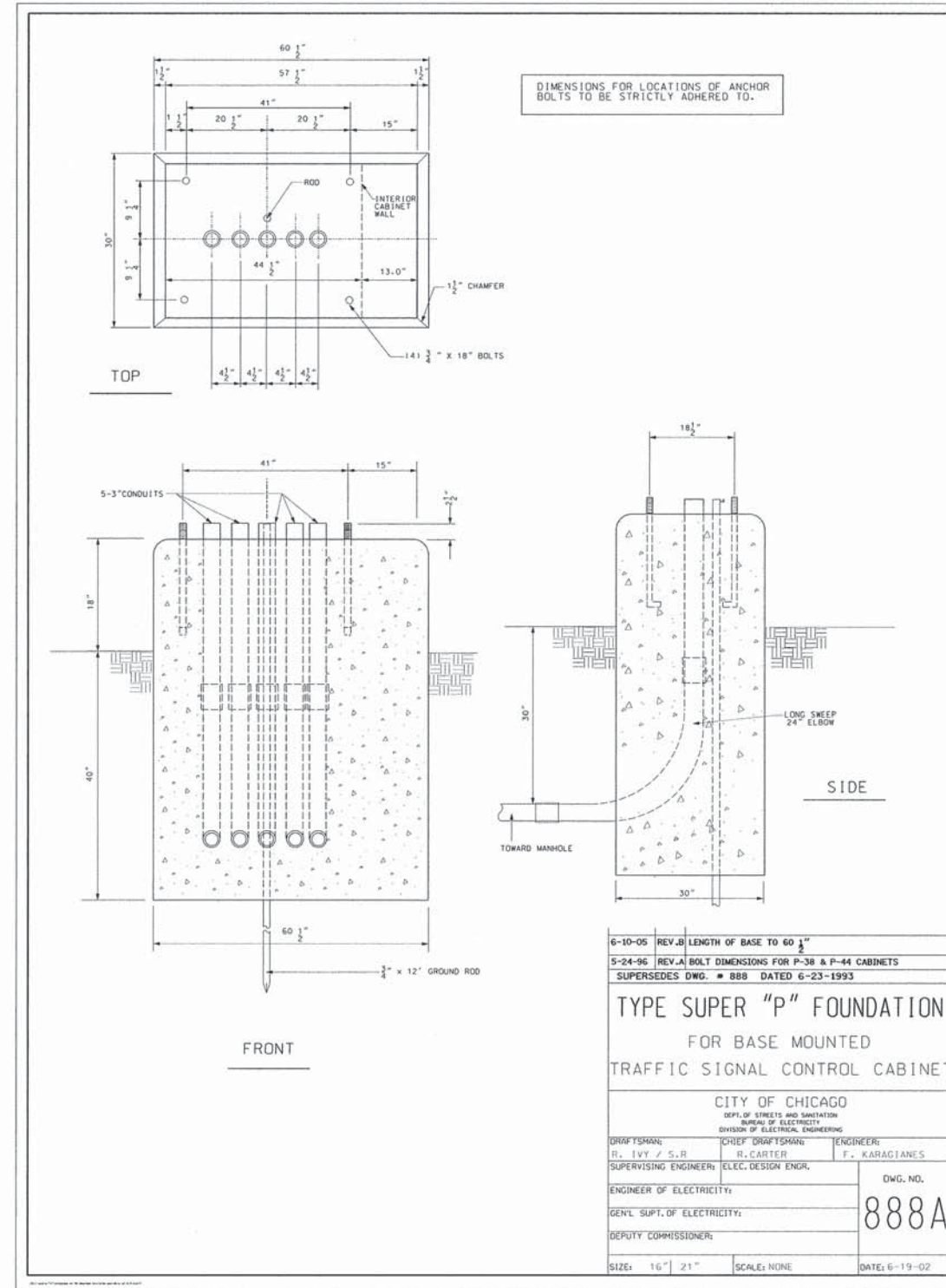
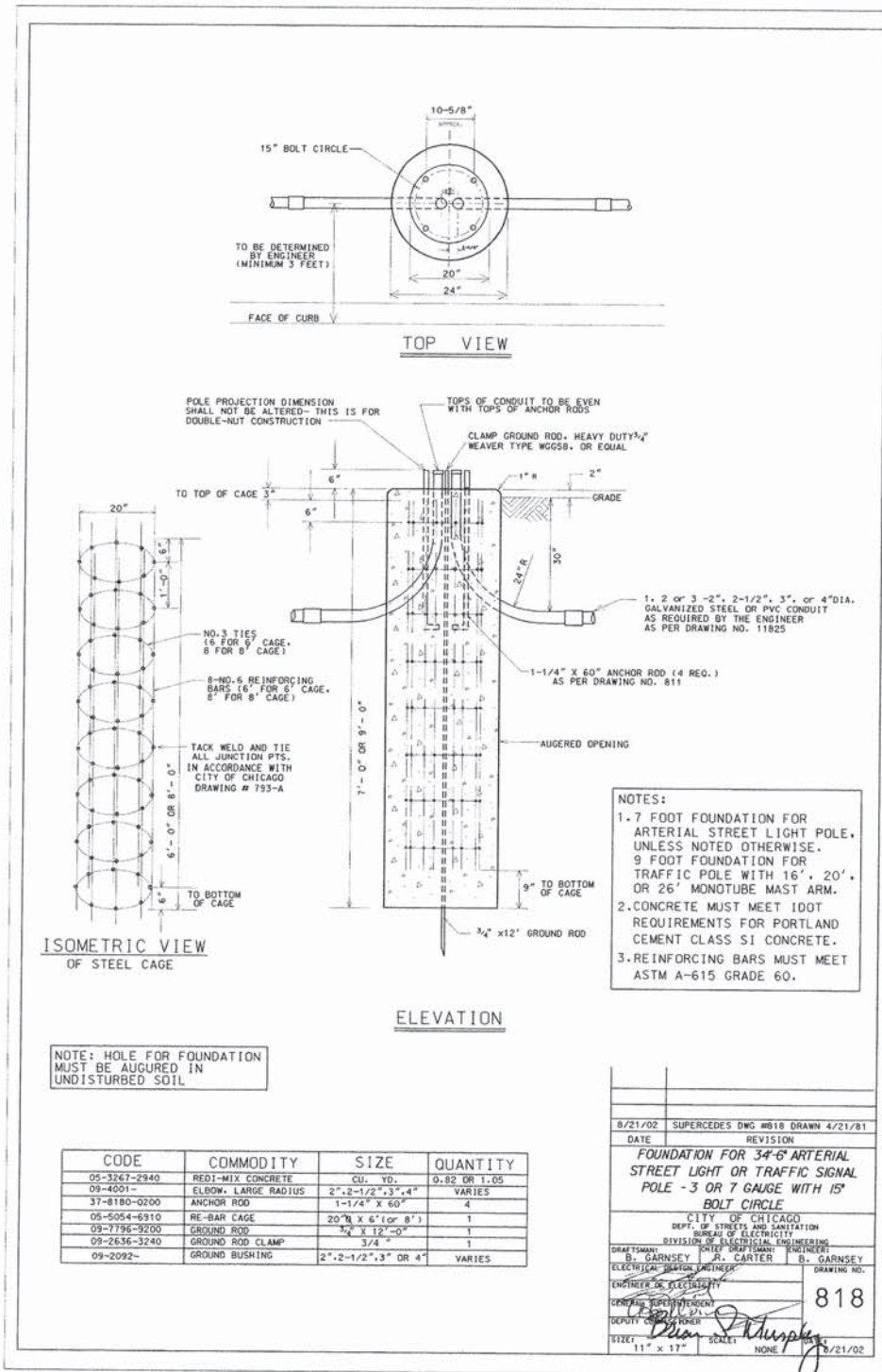


USER NAME = #USER#	DESIGNED - -	REVISED -
PLOT SCALE = #SCALE#	DRAWN - -	REVISED -
PLOT DATE = #DATE#	CHECKED - -	REVISED -
	DATE - -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH BIKE TRAIL EXTENSION CDOT DETAILS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	63
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61A86	



FILE NAME = 8FILE8

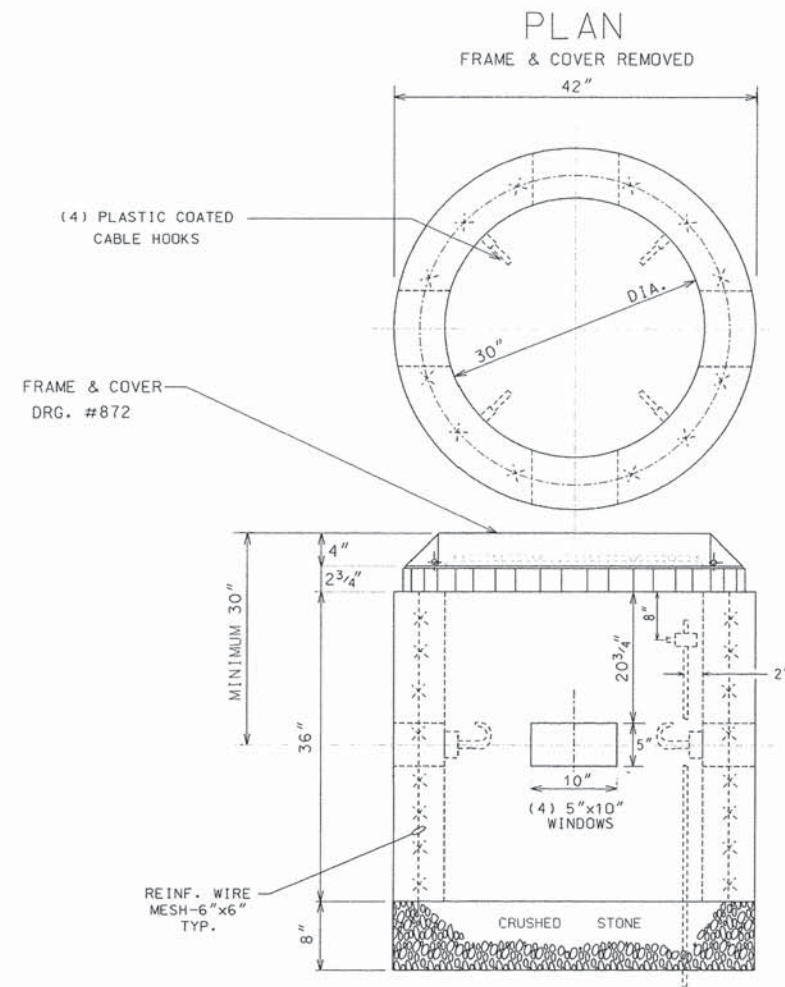


USER NAME = #USER#	DESIGNED -	REVISD -
PLOT SCALE = #SCALE#	CHECKED -	REVISD -
PLOT DATE = #DATE#	DATE -	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH BIKE TRAIL EXTENSION CDOT DETAILS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	64
CONTRACT NO. 61A86				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



COMPLETE COMMODITY CODE NO. 05-6610-5310M

CODE NO.	MATERIALS	SIZE	QUAN.
(1) 05-6610-5310	PRE-CAST HANDHOLE	30"X36"	1
(2) 05-9075-5470	STONE 3/4" CRJSHED	BAG	5
(2) 05-5082-5330	SOND TUBE	30"	1
(2) 05-5082-5342	SOND TUBE	42"	1
(2) 05-3267-2940	CONC. REDI-MIX	CU. YD.	1/2
(2) 57-0770-0000	6" X 6" MESH	36"X10'	1
05-1452-9720	BRICK		24
02-4299-5524	FRAME MANHOLE	24"	1
02-4574-5040	COVER, MANHOLE	24"	1
09-7796-9312	GROUND ROD	3/4"X12'	1
09-2630-3240	GROUND CLAMP		1

- (1) PRE-CAST HANDHOLE SHALL INCLUDE CABLE HOOKS AND CONDUIT KNOCKOUTS.
- (2) THESE ITEMS ARE FOR POURED-IN-PLACE HANDHOLES ONLY.

CONSTRUCTION NOTES:

- 1. 8" BED OF STONE FOR DRAINAGE.
- 2. ALL METALLIC CONDUITS ENTERING HANDHOLE SHALL EXTEND MINIMUM 1" & MAXIMUM 3" INSIDE INNER WALL AND BE EQUIPPED WITH AN APPROVED TYPE OF THREADED GROUNDING BUSHING.

B	01-23-00	ADDED CABLE HOOKS PER COMMISSIONER MURPHY	MP
A	12-8-95	REDRAW (CAD)	MP
DATE	REVISION		
30" DIA. CONCRETE HANDHOLE			
CITY OF CHICAGO			
DESIGNED BY	DRONE	TRAMPKA	
DRAWN BY	M. FATON	B. CARTER	DEBARTOLO
CHECKED BY			
DATE			
867			
DATE	11	17	DATE: 12-8-95

FILE NAME = #FILES#



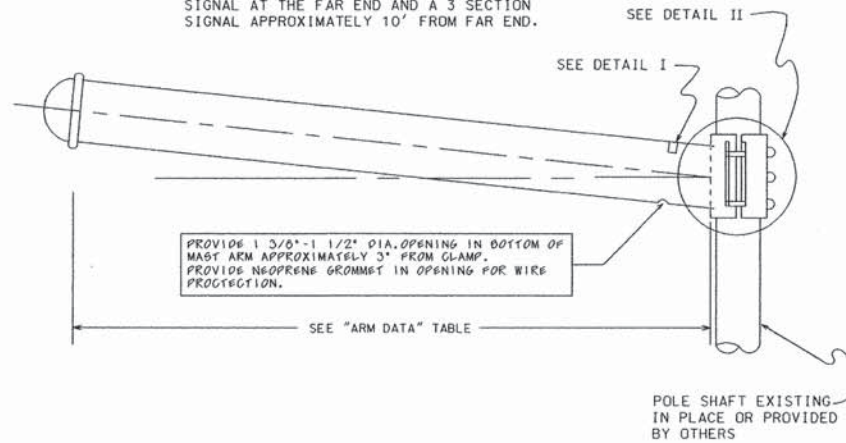
USER NAME = #USER#	DESIGNED - -	REVISED -
PLOT SCALE = #SCALE#	DRAWN - -	REVISED -
PLOT DATE = #DATE#	CHECKED - -	REVISED -
	DATE - -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

NORTH BRANCH BIKE TRAIL EXTENSION CDOT DETAILS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	65
CONTRACT NO. 61A86				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

PROVIDE SUFFICIENT MAST ARM RISE (3' MIN.) SO THAT MAST ARM REMAINS SLIGHTLY ABOVE HORIZONTAL WHEN LOADED WITH A 5 SECTION SIGNAL AT THE FAR END AND A 3 SECTION SIGNAL APPROXIMATELY 10' FROM FAR END.



PROVIDE 1 3/8" - 1 1/2" DIA. OPENING IN BOTTOM OF MAST ARM APPROXIMATELY 3' FROM CLAMP. PROVIDE NEOPRENE GROMMET IN OPENING FOR WIRE PROTECTION.

SEE "ARM DATA" TABLE

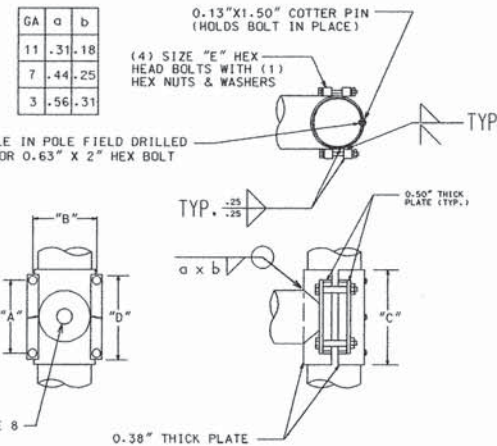
POLE SHAFT EXISTING IN PLACE OR PROVIDED BY OTHERS

TOP
0.00 - 0.00
INDICATES MAX. AND MIN. I. D. RANGE FOR ARM CLAMP

I. D. TAG TO BE MOUNTED ON THE TOP OF THE POLE AS INDICATED, USING 2 "GRIP-NAIL" FASTENERS.

DETAIL I
I. D. TAG

SIGNAL ARM ATTACHMENT DATA					
CLAMP RANGE	"A"	"B"	"C"	"D"	"E"
7.45" - 7.95"	7.25"	9.92"	10.80"	10.32"	1.00" X 7.50"
8.45" - 8.95"	9.00"	10.66"	13.06"	12.50"	1.00" X 8.00"
9.95" - 10.45"	10.25"	12.66"	15.30"	13.50"	1.25" X 8.50"



DETAIL II
ARM ATTACHMENT

ARM DATA

CLAMP RANGE (INCHES)	POLE END (INCHES)	SIGNAL END (INCHES)	LENGTH (FEET)	GAUGE	WEIGHT (POUNDS)	TEST LOAD (POUNDS)	MAX. DEFLECTION (INCHES)
7.45-7.95	7.0	4.76	16	7	241	1700	6.5
7.45-7.95	7.0	4.20	20	7	274	1300	12.0
7.45-7.95	7.0	3.36	26	7	315	1000	24.0
8.45-8.95	8.0	3.80	30	7	409	1100	29.0
9.95-10.45	9.0	4.10	35	7	529	1200	36.0
9.95-10.45	9.0	3.40	40	7	559	1000	52.0
9.95-10.45	10.0	3.84	44	7		1200	57.0

NOTES:

- TRAFFIC SIGNAL ARM SHAFT ASTM DESIGNATION: A595 GRADE C, 60,000 PSI MINIMUM YIELD STRENGTH WITH A LINEAR TAPER -0.14"/FT.
- TRAFFIC SIGNAL ARM END CAP SECURED IN PLACE WITH 3 SET SCREWS AND 1 THRU ARM END BOLT. (PLATED HARDWARE)
- ALL THREADED FASTENERS TO BE GALVANIZED TO ASTM DESIGNATION: A153
- ALL VEHICULAR AND/OR PEDESTRIAN SIGNAL LIGHTS AND NECESSARY HARDWARE FOR ATTACHMENT TO BE FIELD LOCATED AND FURNISHED BY OTHERS.
- ALL ARM END CAPS AND ARM CLAMPS TO BE FULLY ASSEMBLED AND ATTACHED TO THE ARM PRIOR TO SHIPPING.
- ARM ASSEMBLY TO BE DEGREASED; CLEANED; CHEMICALLY PRETREATED; GIVEN AN EXTERIOR THERMOSETTING POLYESTER POWDER COAT; AND AN INTERIOR THERMOPLASTIC HYDROCARBON RESIN POWDER COAT. ALL PAINTING TO BE IN ACCORDANCE WITH SPECIFICATION 1454, SECTION 8, "PAINTING".
- MAST ARM SHALL BE TESTED IN ACCORDANCE WITH SPECIFICATION 1454, SECTION 9 WITH TEST VALUES AS SHOWN ON THE "ARM DATA" TABLE.
- HOLE IN CLAMP TO BE 4.0" (MIN.). HOLE TO BE GROUND SMOOTH AND DEBURRED TO PROVIDE A SMOOTH WIRE ENTRY FROM POLE TO MAST ARM.

B	10-29-02	REFERENCES SPEC. 1454
A	8-6-93	WIRE OPENING ON MAST ARM
DATE		REVISION
SUPERSEDES ENG. DATED DEC. 1991		
STEEL TRAFFIC SIGNAL MAST ARM-MONOTUBE		
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING		
DRAWINGMAN	CHECKED	ENGINEER
R. IVY	ROBERT CARTER	RON POOL
SUPERVISING ENGINEER	ELECTRICAL ENGINEER	
ENGINEER OF CONSTRUCTION		
DEPT. OF PUBLIC WORKS		
DEPUTY COMMISSIONER		
		870
SIZE: 36"	SCALE: 3/8"	DATE: DEC. 1991

FILE NAME = BFILE8



USER NAME = #USER#	DESIGNED -	REVISED -
PLOT SCALE = #SCALE#	DRAWN -	REVISED -
PLOT DATE = #DATE#	CHECKED -	REVISED -
	DATE -	REVISED -

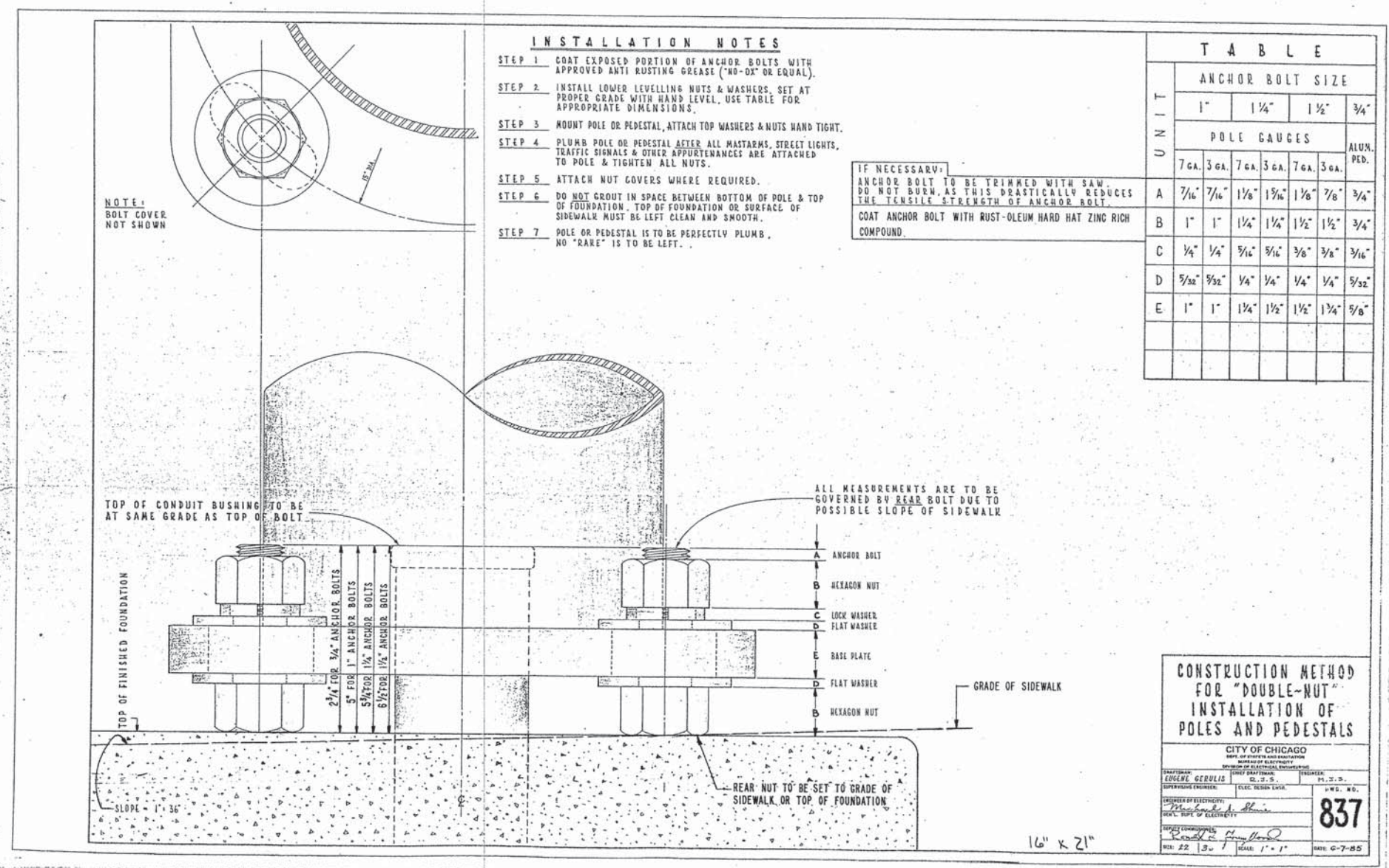
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH BIKE TRAIL EXTENSION
CDOT DETAILS

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	66
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 61A86



INSTALLATION NOTES

- STEP 1 COAT EXPOSED PORTION OF ANCHOR BOLTS WITH APPROVED ANTI RUSTING GREASE ("NO-OX" OR EQUAL).
- STEP 2 INSTALL LOWER LEVELLING NUTS & WASHERS, SET AT PROPER GRADE WITH HAND LEVEL. USE TABLE FOR APPROPRIATE DIMENSIONS.
- STEP 3 MOUNT POLE OR PEDESTAL, ATTACH TOP WASHERS & NUTS HAND TIGHT.
- STEP 4 PLUMB POLE OR PEDESTAL AFTER ALL MASTARMS, STREET LIGHTS, TRAFFIC SIGNALS & OTHER APPURTENANCES ARE ATTACHED TO POLE & TIGHTEN ALL NUTS.
- STEP 5 ATTACH NUT COVERS WHERE REQUIRED.
- STEP 6 DO NOT CROUT IN SPACE BETWEEN BOTTOM OF POLE & TOP OF FOUNDATION. TOP OF FOUNDATION OR SURFACE OF SIDEWALK MUST BE LEFT CLEAN AND SMOOTH.
- STEP 7 POLE OR PEDESTAL IS TO BE PERFECTLY PLUMB. NO "RAKE" IS TO BE LEFT.

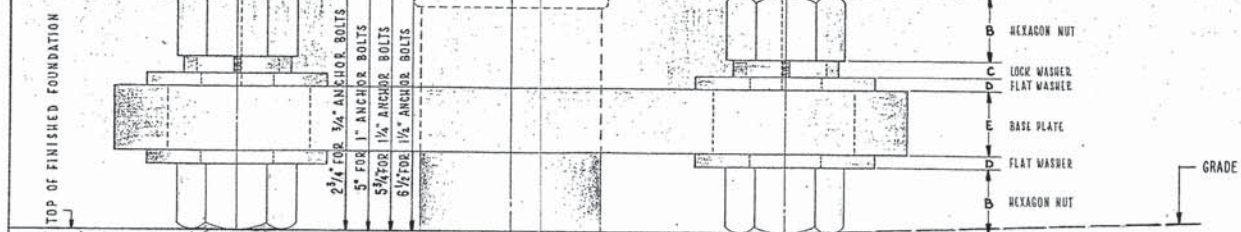
IF NECESSARY:
ANCHOR BOLT TO BE TRIMMED WITH SAW. DO NOT BURN, AS THIS DRASTICALLY REDUCES THE TENSILE STRENGTH OF ANCHOR BOLT.
COAT ANCHOR BOLT WITH RUST-OLEUM HARD HAT ZINC RICH COMPOUND.

		T A B L E					
		ANCHOR BOLT SIZE					
U N I T		1"	1 1/4"	1 1/2"	3/4"		
		P O L E G A U G E S					
		7 GA.	3 GA.	7 GA.	3 GA.	7 GA.	3 GA.
A	ALUM. PED.	7/16"	7/16"	1/8"	1 3/16"	1 1/8"	7/8"
B		1"	1"	1 1/4"	1 1/4"	1 1/2"	3/4"
C		1/4"	1/4"	3/16"	3/16"	3/8"	3/16"
D		5/32"	5/32"	1/4"	1/4"	1/4"	5/32"
E		1"	1"	1 1/4"	1 1/2"	1 3/4"	5/8"

NOTE:
BOLT COVER
NOT SHOWN

TOP OF CONDUIT BUSHING TO BE AT SAME GRADE AS TOP OF BOLT

ALL MEASUREMENTS ARE TO BE GOVERNED BY REAR BOLT DUE TO POSSIBLE SLOPE OF SIDEWALK



REAR NUT TO BE SET TO GRADE OF SIDEWALK OR TOP OF FOUNDATION

16" x 21"

CONSTRUCTION METHOD FOR "DOUBLE-NUT" INSTALLATION OF POLES AND PEDESTALS

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
DIVISION OF ELECTRICAL ENGINEERING

DRAWN BY: *COLENE GERULLI*
CHECKED BY: *...*
SUPERVISING ENGINEER: *...*
ENGINEER OF ELECTRICAL: *...*
DATE: 6-7-85

837

FILE NAME = #FILE#



USER NAME = #USER#	DESIGNED - PMV	REVISED -
PLOT SCALE = #SCALE#	DRAWN - PMV	REVISED -
PLOT DATE = #DATE#	CHECKED - NPP	REVISED -
	DATE - 6/22/15	REVISED -

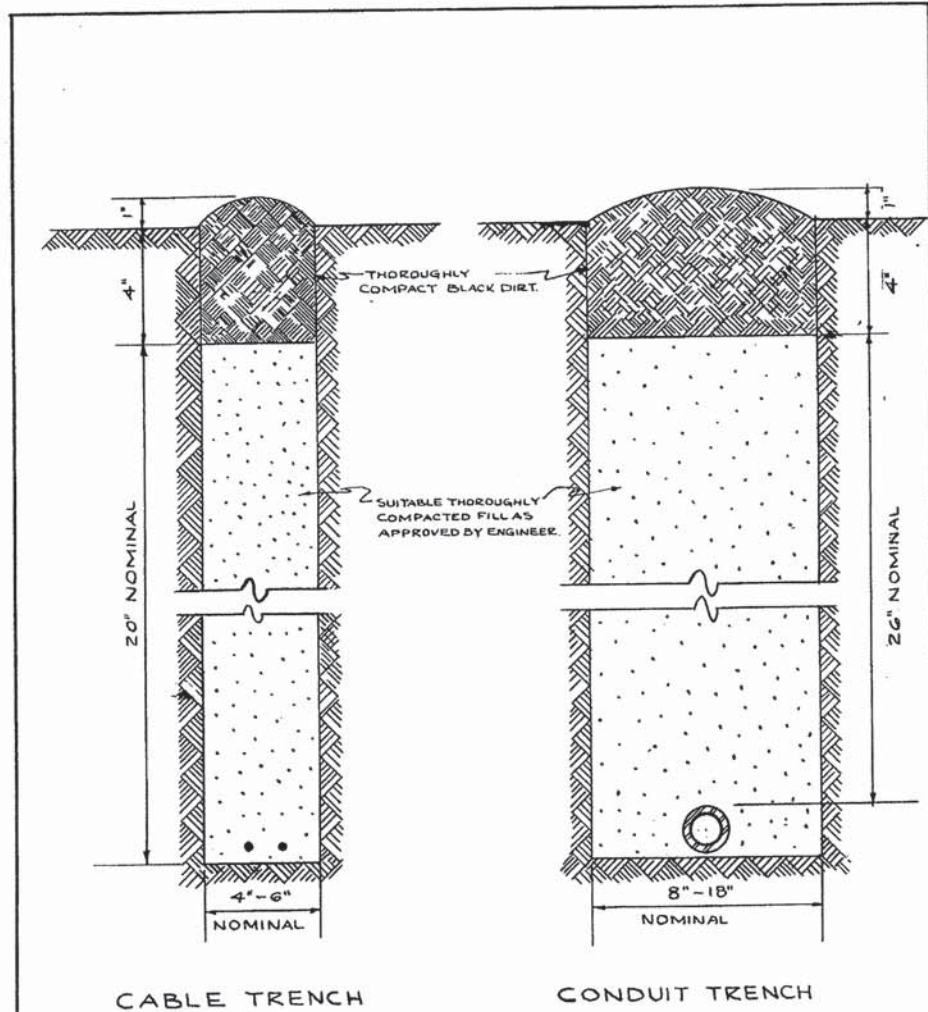
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**NORTH BRANCH BIKE TRAIL EXTENSION
CDOT DETAILS**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	67
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

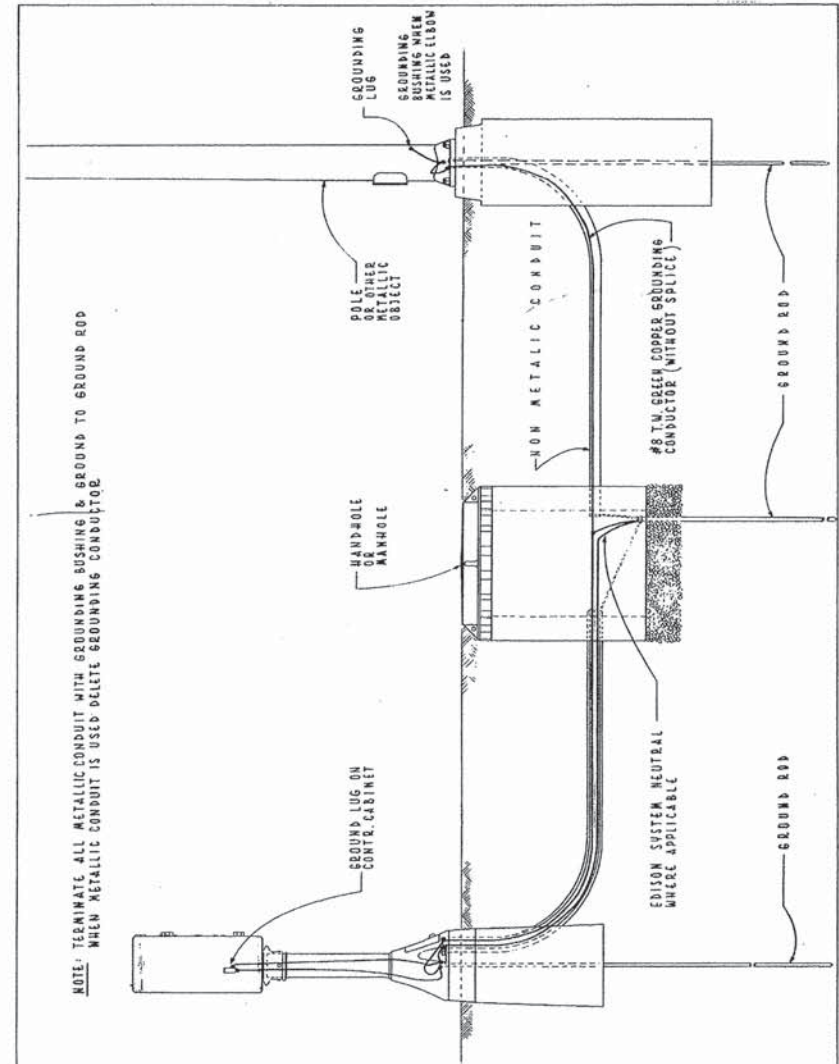
CONTRACT NO. 61A86



NOTE
 EXCESS SOIL FROM TRENCH TO BE COMPLETELY REMOVED FROM SITE AS SOON AS PRACTICABLE.
 BLACK DIRT TO BE TAMPED & THOROUGHLY COMPACTED AS SHOWN.

STANDARD METHOD FOR BACKFILLING CABLE & CONDUIT TRENCHES IN SODDED PARKWAY & LAWNS

REVISION	CITY OF CHICAGO DEPT. OF STREETS & SANITATION DIVISION OF ELECTRICAL ENGINEERING
A	DRAWN: W.E. HAEP CHECKED: M. SHINE ENGINEER: J. O'CONNOR
B	ENGINE CHARGE: <i>[Signature]</i> DRG. NO. 579
C	SUPT. OF CONST. <i>[Signature]</i>
D	INSURANCE COMPANY <i>[Signature]</i>
E	DATE: 7-14-61
F	SIZE: 8 1/2 x 11 SCALE: N



TYPICAL GROUNDING METHODS FOR BUREAU OF ELECTRICITY EQUIPMENT

CITY OF CHICAGO
 DEPT. OF STREETS & SANITATION
 BUREAU OF ELECTRICITY
 DIVISION OF ELECTRICAL ENGINEERING

REVISION	DRAWN: E. GERULIS	CHECKED: M. SHINE	ENGINEER: J. O'CONNOR
A	ENG. OF ELEC. <i>[Signature]</i>		PROJ. NO. 736
B	SUPT. OF CONST. <i>[Signature]</i>		
C	INSURANCE COMPANY <i>[Signature]</i>		
D			
E			
F	SIZE: 8 1/2 x 11	SCALE: 1" = 10'	DATE: 5-12-70

FILE NAME = #FILES#



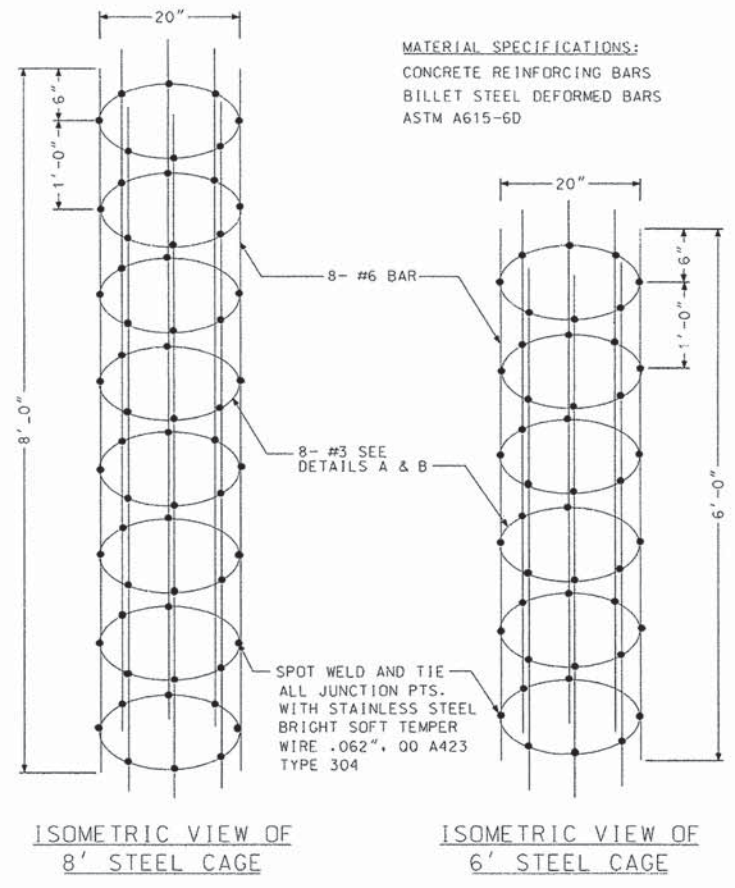
USER NAME = #USER#	DESIGNED - PMV	REVISED -
PLOT SCALE = #SCALE#	DRAWN - PMV	REVISED -
PLOT DATE = #DATE#	CHECKED - NPP	REVISED -
	DATE - 6/22/15	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

NORTH BRANCH BIKE TRAIL EXTENSION
 CDOT DETAILS

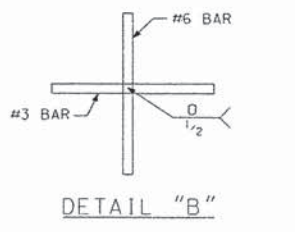
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	68
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 61A86		

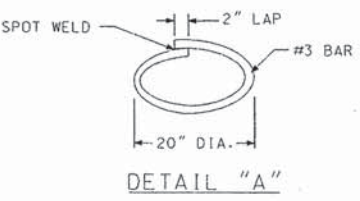


MATERIAL SPECIFICATIONS:
 CONCRETE REINFORCING BARS
 BILLET STEEL DEFORMED BARS
 ASTM A615-6D

CODE	COMMODITY	SIZE	QUANTITY
20-9545-	ROD. WELDING LINCOLN WELD OR EQUAL	#7018	5#
31-	WIRE. TIE STEEL STAINLESS 00 W423 COND. "A" SOFT	.062	1.0#



DETAIL "B"



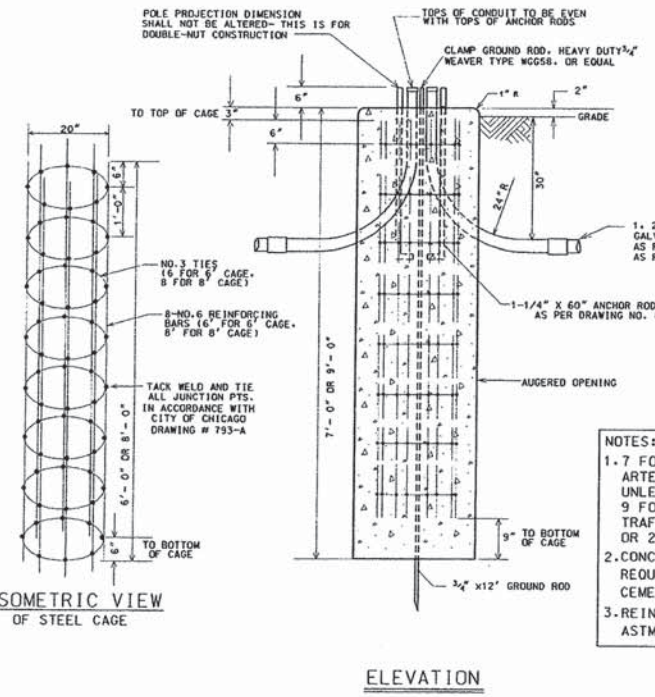
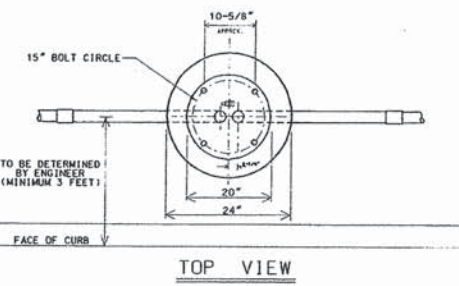
DETAIL "A"

REVISION	DATE

STEEL CAGES FOR POLE FOUNDATIONS

CITY OF CHICAGO

793A



NOTES:
 1. 7 FOOT FOUNDATION FOR ARTERIAL STREET LIGHT POLE, UNLESS NOTED OTHERWISE.
 9 FOOT FOUNDATION FOR TRAFFIC POLE WITH 16', 20', OR 26' MONOTUBE MAST ARM.
 2. CONCRETE MUST MEET 100T REQUIREMENTS FOR PORTLAND CEMENT CLASS S1 CONCRETE.
 3. REINFORCING BARS MUST MEET ASTM A-615 GRADE 60.

NOTE: HOLE FOR FOUNDATION MUST BE AUGURED IN UNDISTURBED SOIL

CODE	COMMODITY	SIZE	QUANTITY
05-3267-2940	REDI-MIX CONCRETE	CU. YD.	0.82 OR 1.05
05-4001-	ELBOW, LARGE RADIUS	2", 2-1/2", 3", 4"	VARIES
37-8180-0200	ANCHOR ROD	1-1/4" X 60"	4
05-5054-6910	RE-BAR CAGE	20" X 6" (OR 8")	1
09-7796-9200	GROUND ROD	3/4" X 12'-0"	1
09-2636-3240	GROUND ROD CLAMP	3/4"	1
09-2092-	GROUND BUSHING	2", 2-1/2", 3" OR 4"	VARIES

DATE	REVISION
8/21/02	SUPERCEDES DWG #818 DRAWN 4/21/81

FOUNDATION FOR 34'-6" ARTERIAL STREET LIGHT OR TRAFFIC SIGNAL POLE - 3 OR 7 GAUGE WITH 15' BOLT CIRCLE

CITY OF CHICAGO
 DEPT. OF STREETS AND SANITATION
 BUREAU OF ELECTRICITY
 DIVISION OF ELECTRICAL ENGINEERING
 CHIEF ENGINEER

DESIGNED BY: B. GARNSEY
 DRAWN BY: J. CARTER
 CHECKED BY: B. GARNSEY
 DEPUTY CHIEF ENGINEER

818

11" x 17" SCALE: NONE DATE: 8/21/02



USER NAME	DESIGNED	REVISION
#USER#	PMV	-
#SCALE#	PMV	REVISION
#DATE#	NPP	REVISION
6/22/15		REVISION

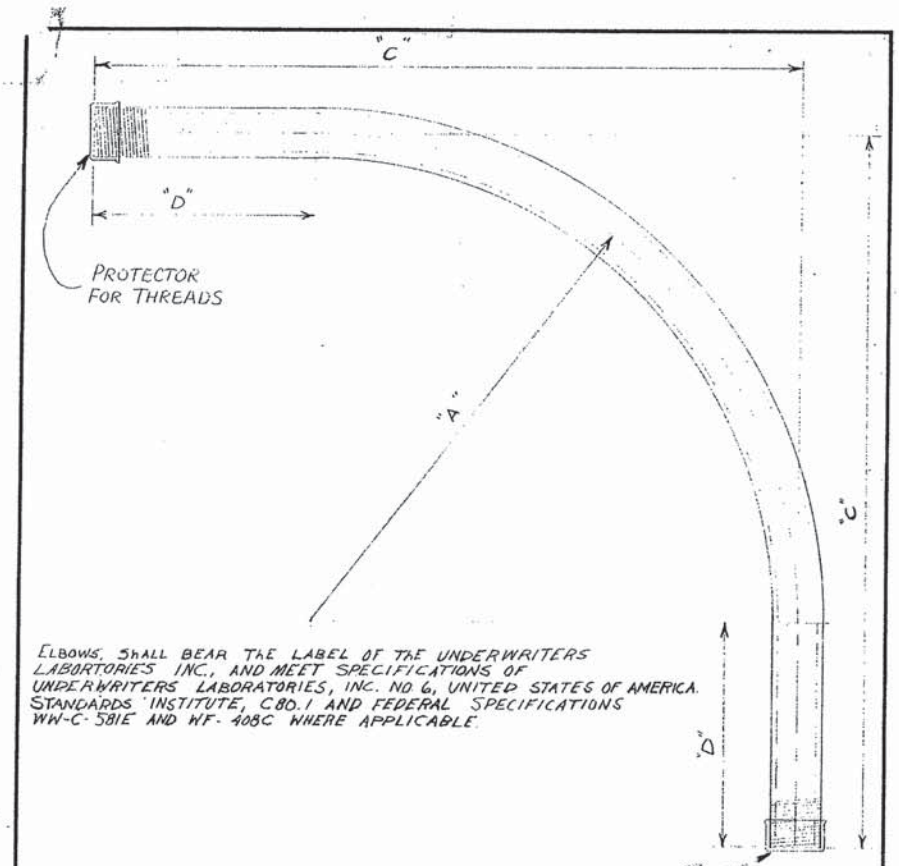
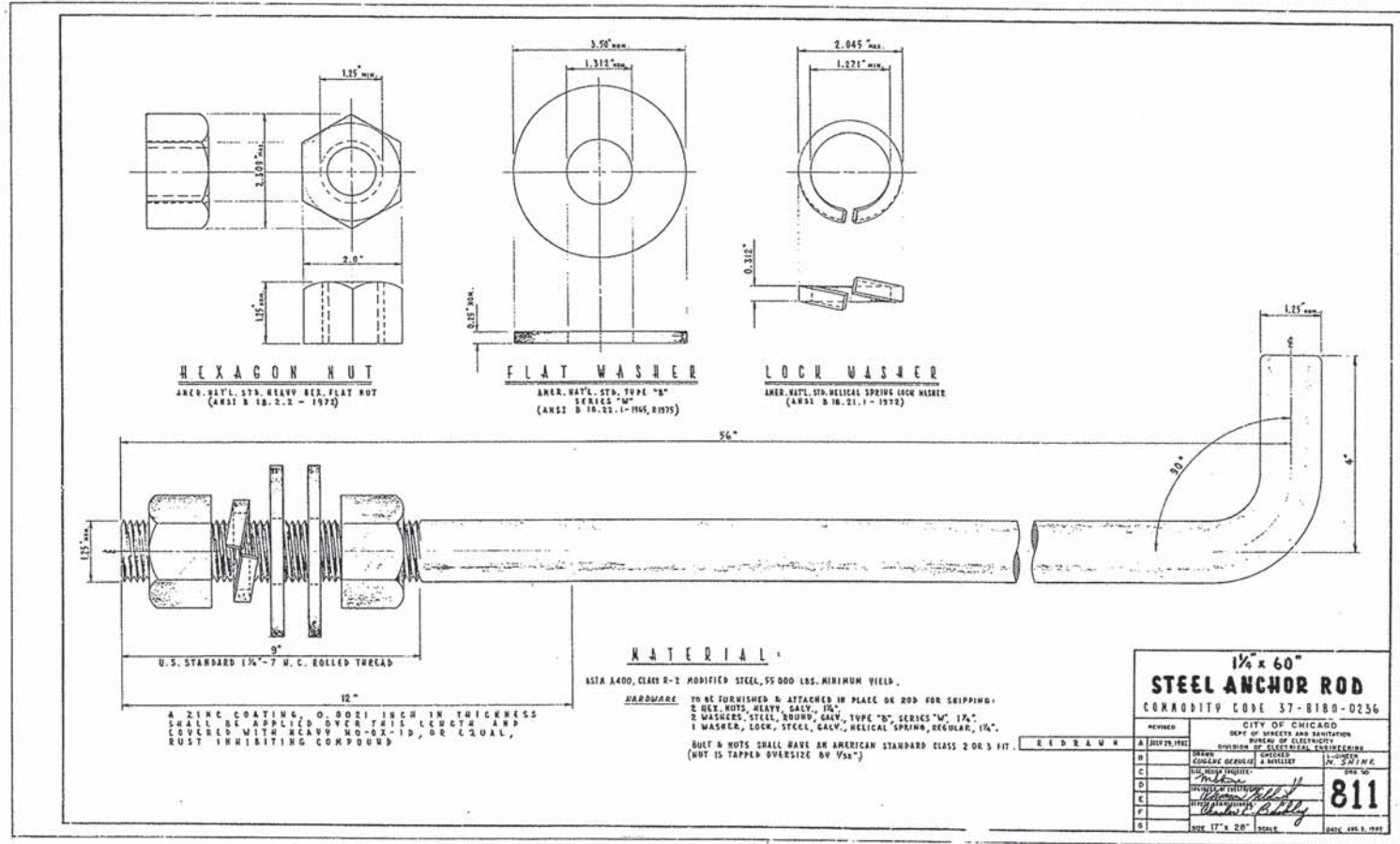
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	69

CONTRACT NO. 61A86

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



NOTE:
TWO THREAD PROTECTORS TO BE FURNISHED ON EACH ELBOW, PROTECTOR TO COVER A MINIMUM OF TEN THREADS.

REAM BOTH ENDS TO REMOVE BURRS

TABLE OF DIMENSIONS

CONDUIT SIZE	DIMENSIONS			COMMODITY CODE
	A"	C"	D"	
1 1/4"	24"	35"	11"	09-4001-0510
1 1/2"	24"	35"	11"	09-4001-0520
2"	24"	35"	11"	09-4001-4126
2 1/2"	24"	35"	11"	09-4001-4128
3"	24"	35"	11"	09-4001-4230
4"	24"	35"	11"	09-4001-0000

REVISIONS

B	SPECIFICATIONS REVISED
A	REVISED DIMENSIONS ON 3" & 4" CONDUIT L.P.

ELBOW, CONDUIT, RIGID GALVANIZED STEEL, LARGE RADIUS

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

REVISIONS:
A 7-22-71
B 7-3-79

DRAWN: LON BURDY
CHECKED: M.S.
ENGINEER: M. SHINE
DRG. NO. 11825

DEPUTY COMM. DATE: 6-2-71
SCALE: 3/16"

FILE NAME = 811E8



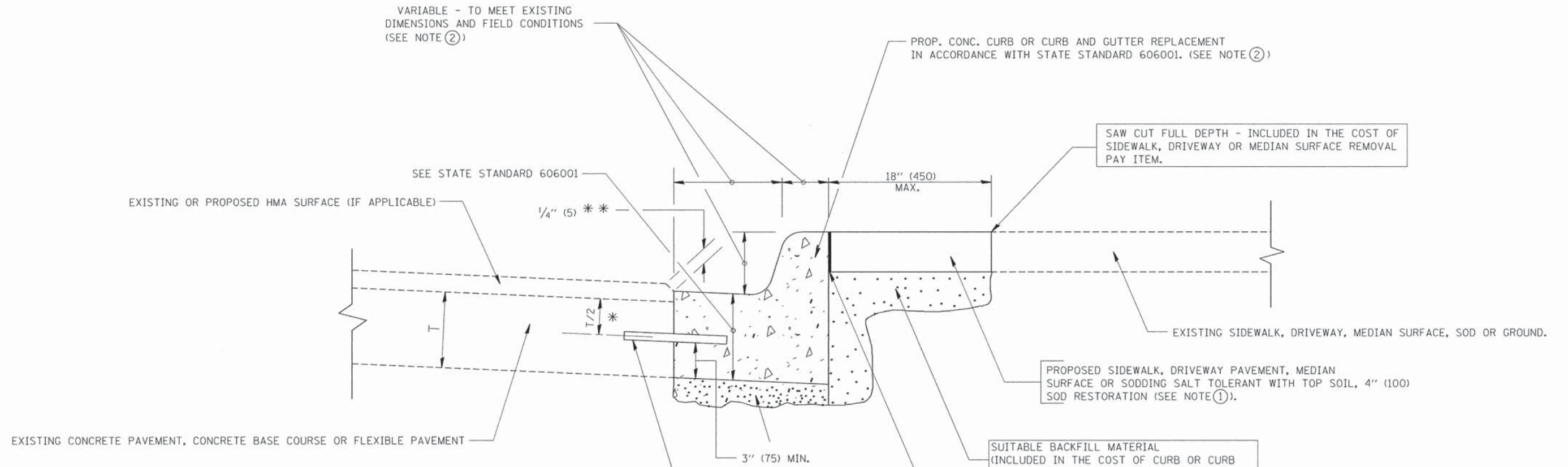
USER NAME = *USER*	DESIGNED - PMV	REVISED -
PLOT SCALE = *SCALE*	DRAWN - PMV	REVISED -
PLOT DATE = *DATE*	CHECKED - NPP	REVISED -
	DATE - 6/22/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH BIKE TRAIL EXTENSION
CDOT DETAILS

SCALE:	SHEET NO. OF SHEETS	STA. TO STA.
--------	---------------------	--------------

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	70
FED. ROAD DIST. NO. (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 61A86	



* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY,

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

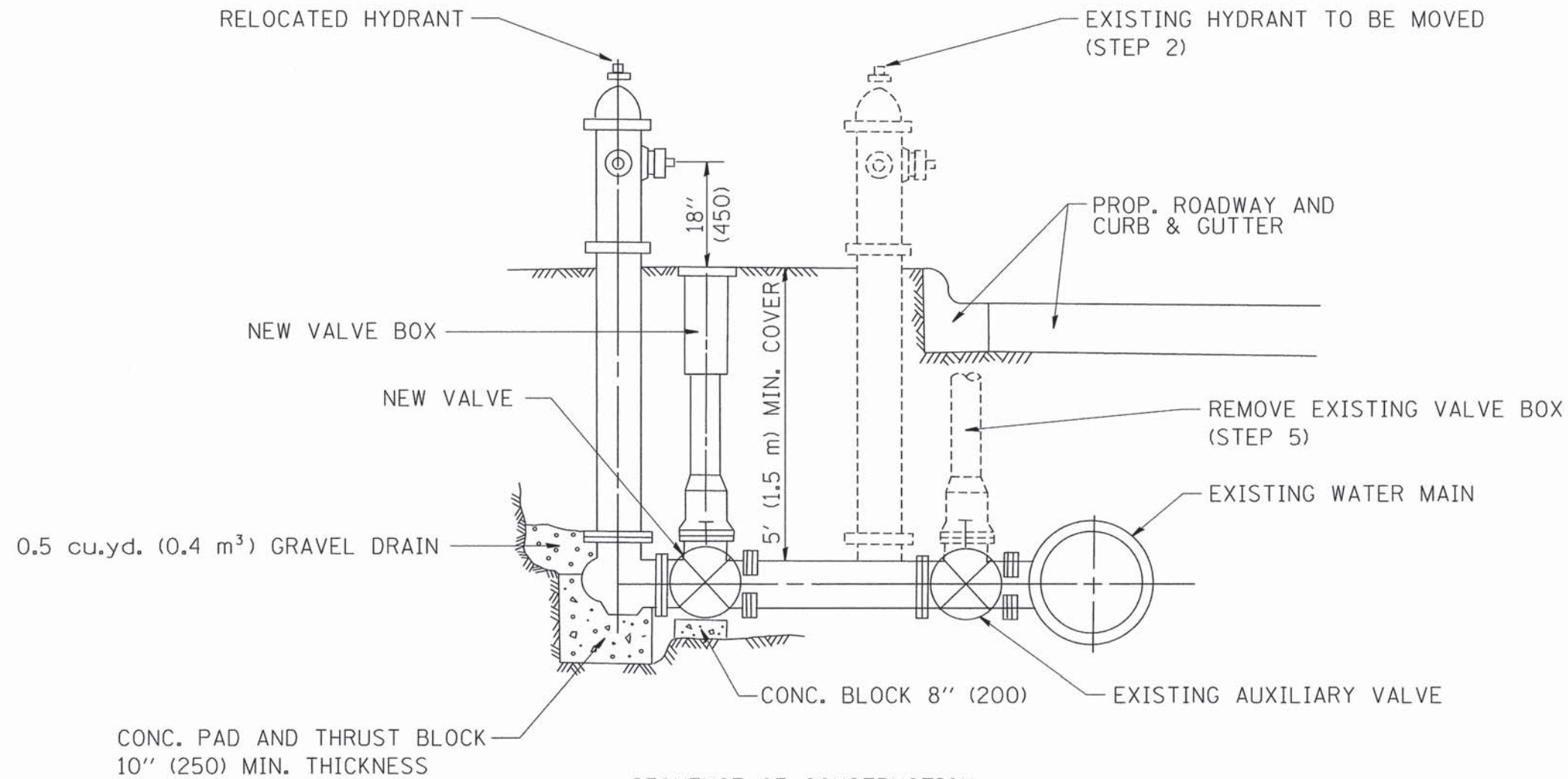
BASIS OF PAYMENT:

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = drvakosgn	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\psidot\drvakosgn\d0180315\bd24.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97	REVISED - M. GOMEZ 01-22-01			08-F3000-21-BT	COOK	98	71	
PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - R. BORO 12-15-09				BD600-06 (BD-24)	CONTRACT NO. 61A86			
PLOT DATE = 12/15/2009	DATE = 03-11-94					FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
SCALE: NONE						SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		



SEQUENCE OF CONSTRUCTION:

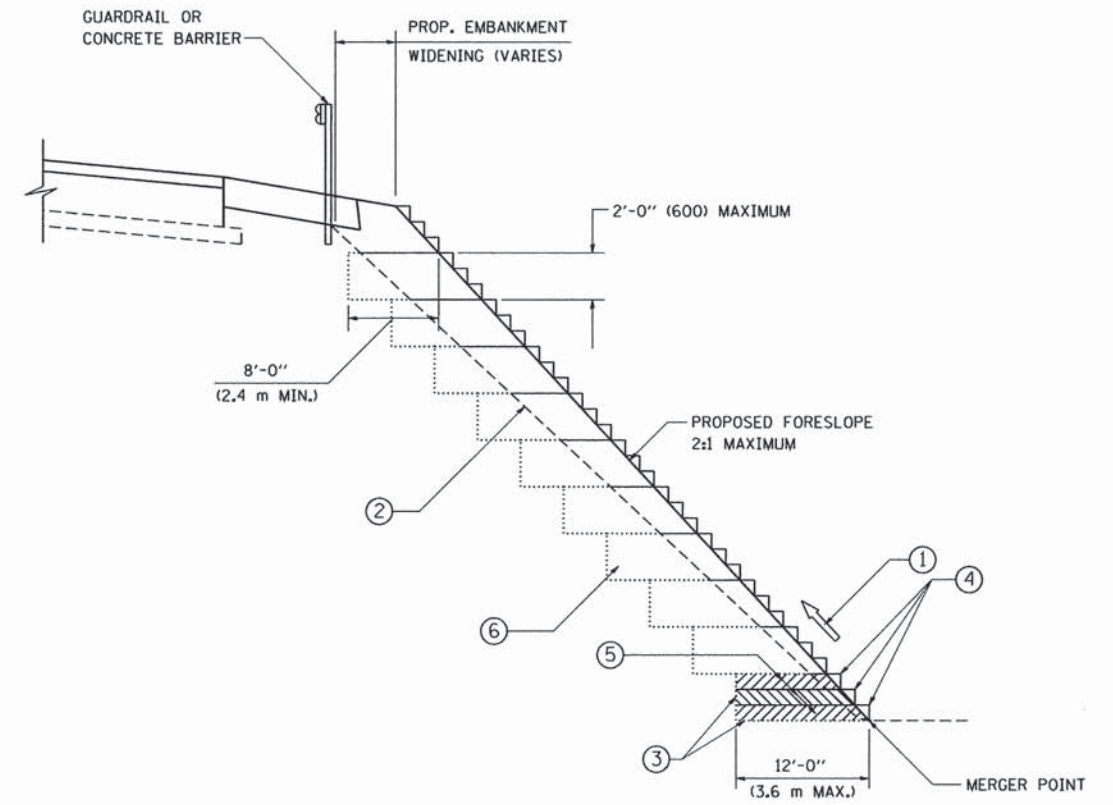
1. CLOSE EXISTING VALVE.
2. REMOVE EXISTING HYDRANT.
3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
4. RELOCATE EXISTING HYDRANT.
5. OPEN EXISTING VALVE, REMOVE BOX.
6. BACKFILL.
7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

FIRE HYDRANT TO BE MOVED

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22+34\bd36.dgn	USER NAME = gaglranobt	DESIGNED -	REVISED - R. SHAH 09-09-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIRE HYDRANT TO BE MOVED			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED - R. SHAH 10-25-94		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	08-F3000-21-BT	COOK	98	72	
	PLOT DATE = 1/4/2008	CHECKED -	REVISED -						BD-36				
		DATE -	REVISED -						FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "UNSUITABLE MATERIAL". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

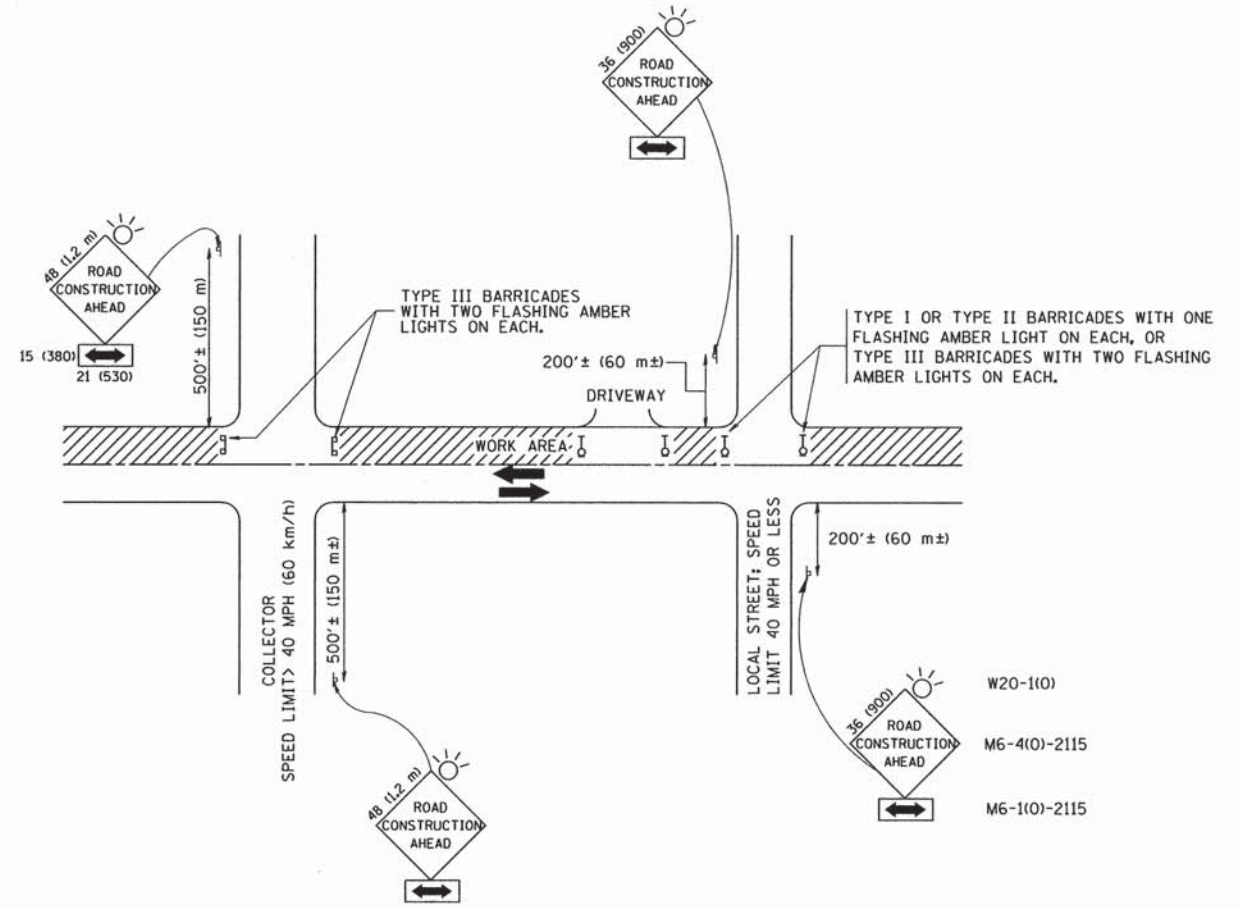
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

FILE NAME = W:\distatd\22x34\bd51.dgn	USER NAME = geglierobt	DESIGNED -	REVISED -
	PLOT SCALE = 50.0000' / IN.	DRAWN - CADD	REVISED -
	PLOT DATE = 1/4/2008	CHECKED - S.E.B.	REVISED -
		DATE - 06-16-04	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BENCHING DETAIL FOR EMBANKMENT WIDENING	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	73
	BD-51		CONTRACT NO. 61A86	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS**
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:**
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.**
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.**

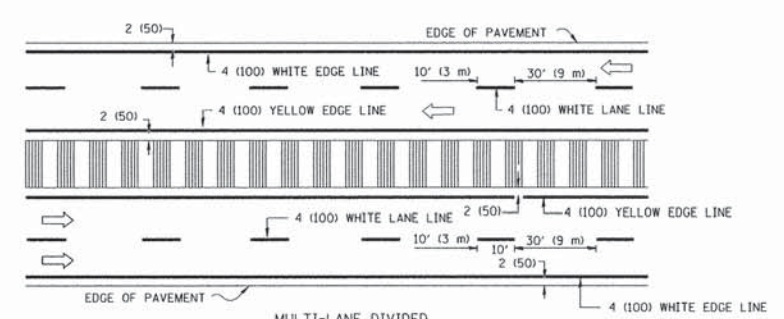
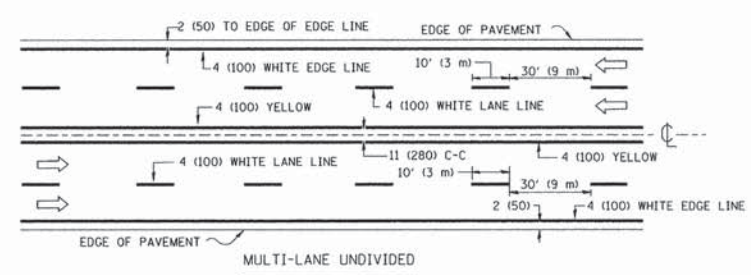
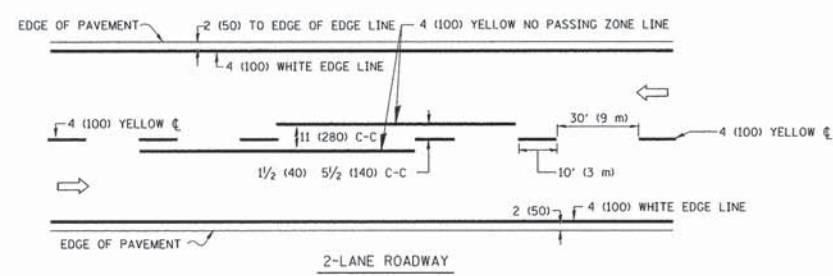
All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME = W:\diststd\22x34\tc18.dgn	USER NAME = gag18n0bt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000 / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

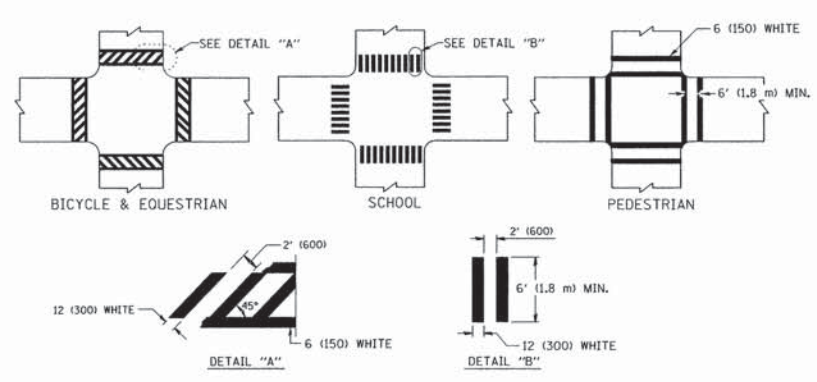
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	74
TC-10			CONTRACT NO. 61A86	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

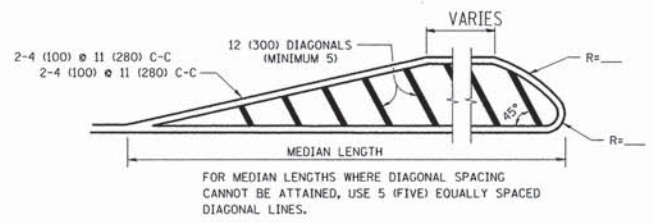
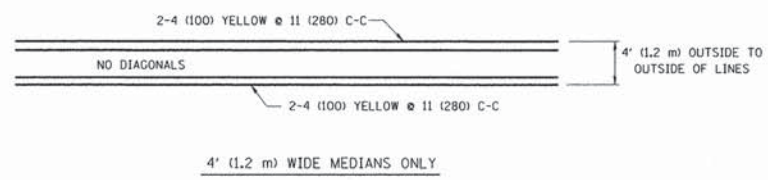


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

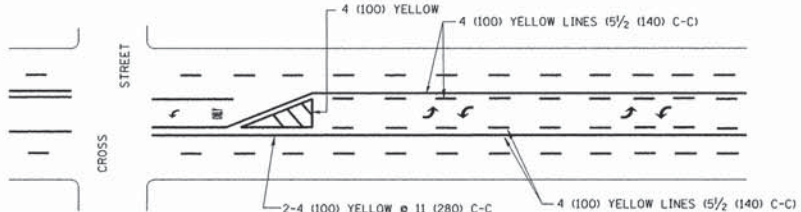


TYPICAL CROSSWALK MARKING

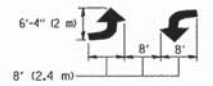


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (OVER 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

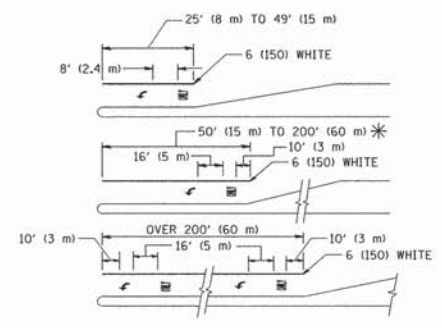


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

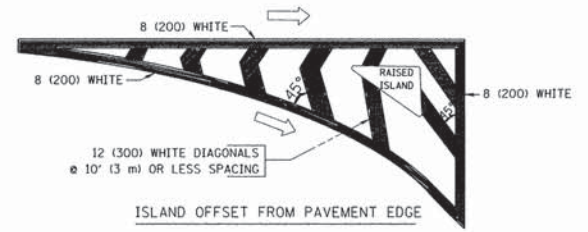


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

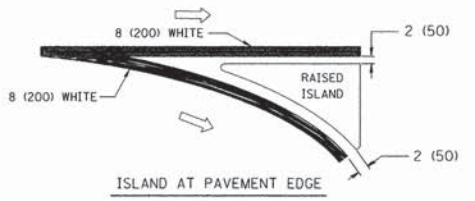
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2' (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2' (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = drivakosgn	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
c:\pwork\pwsdot\drivakosgn\d0108315\tpc3.dgn		DRAWN -	REVISED - C. JUCIUS 09-09-09
	PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

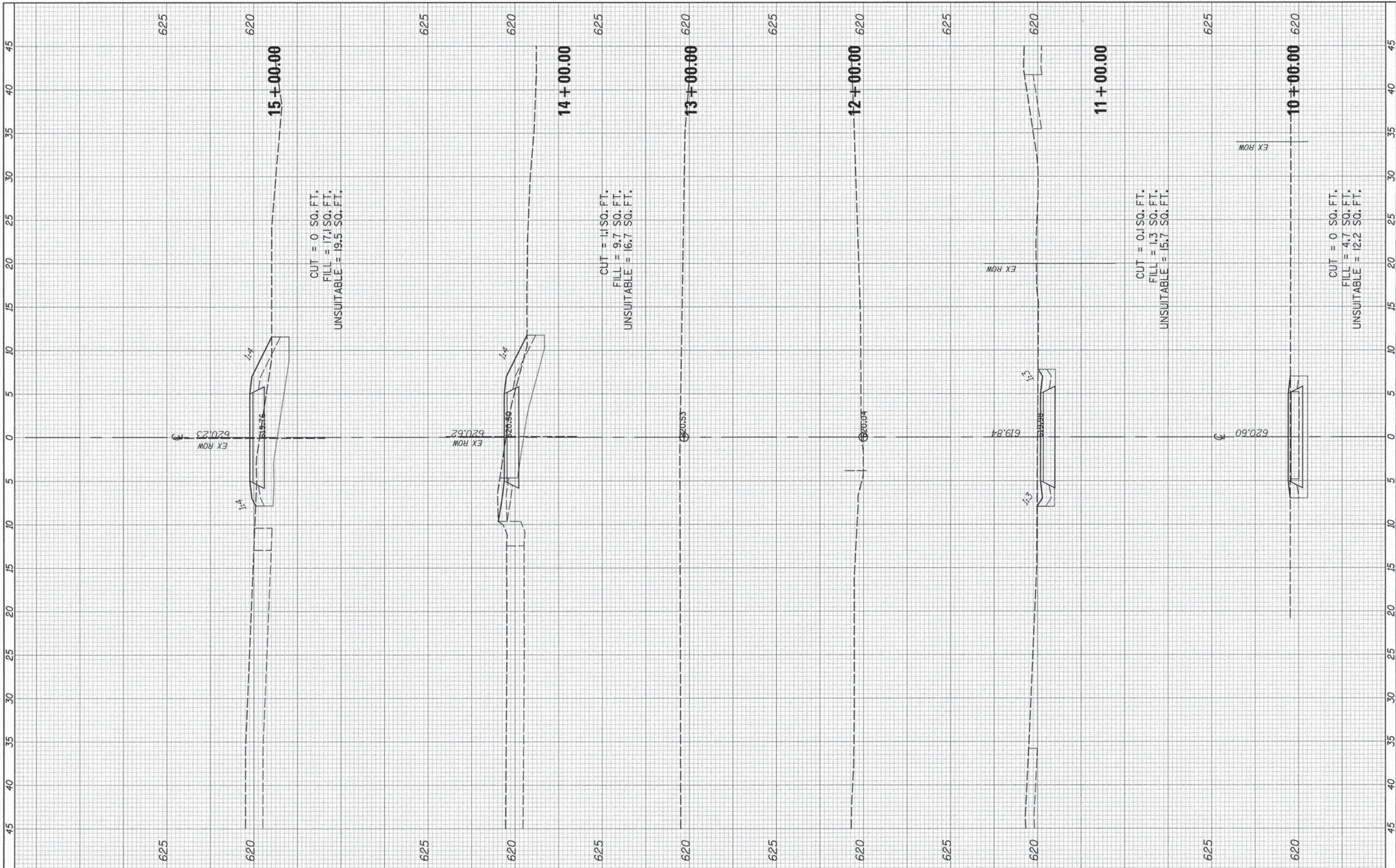
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE	
TYPICAL PAVEMENT MARKINGS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	75
TC-13			CONTRACT NO. 61A86	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY NOTE BOOK NO. _____
 SURVEYED _____ BY _____ DATE _____
 TEMPLATE AREAS CHECKED _____

ORIGINAL SURVEY NOTE BOOK NO. _____
 SURVEYED _____ BY _____ DATE _____
 TEMPLATE AREAS CHECKED _____



FILE NAME = *FILEL*
 #MODELNAME*

USER NAME = #USER*
 PLOT SCALE = #SCALE*
 PLOT DATE = #DATE*

DESIGNED -
 DRAWN -
 CHECKED - DDL
 DATE - 10/20/14

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

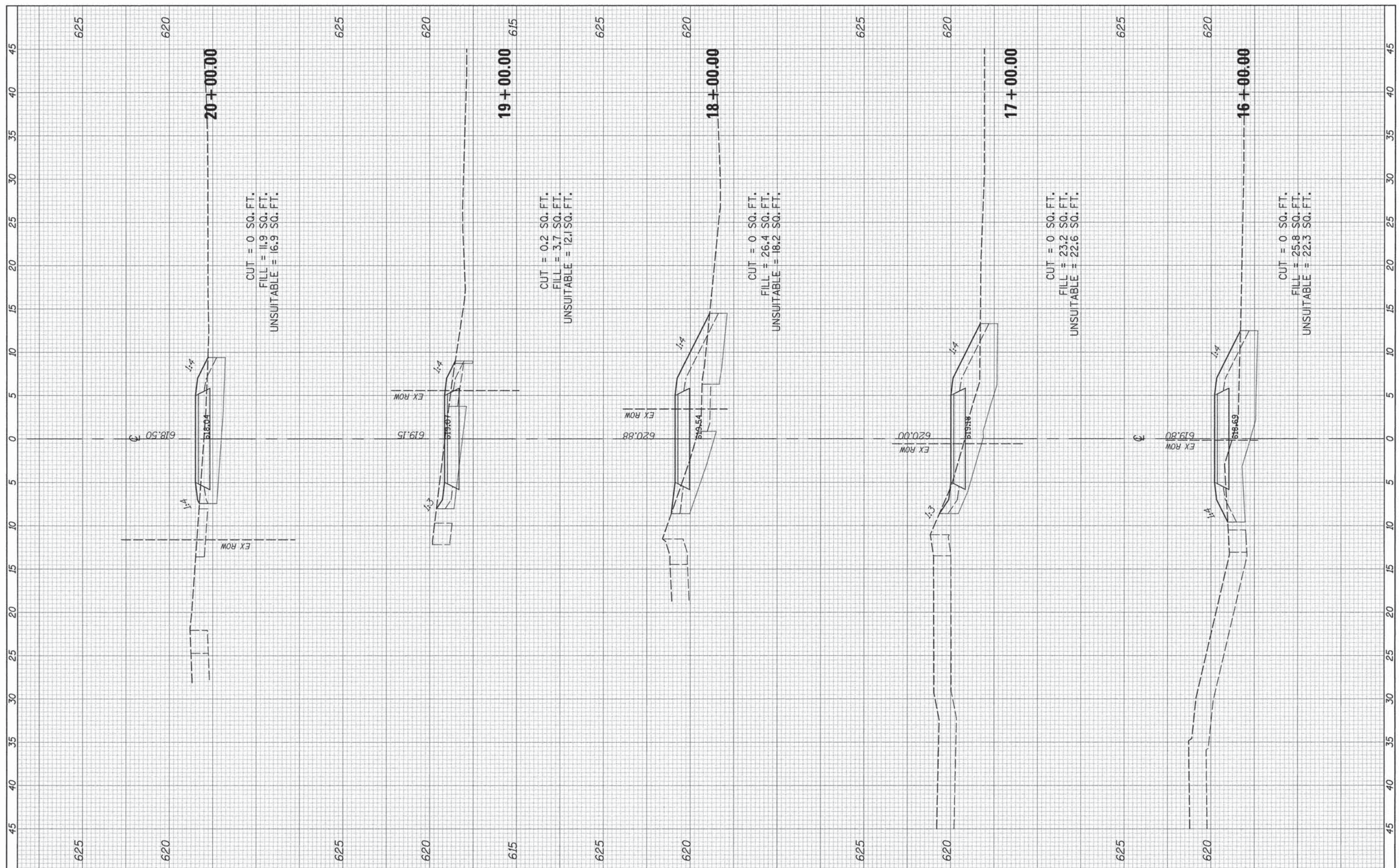
**NORTH BRANCH BIKE TRAIL EXTENSION
 CROSS SECTIONS**

SCALE: SHEET 1 OF 37 SHEETS STA. 10+00.00 TO STA. 15+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	76
CONTRACT NO. 61A86			ILLINOIS FED. AID PROJECT	

FINAL SURVEYED PLOTTED TEMPLATE AREAS CHECKED BY DATE

ORIGINAL SURVEYED PLOTTED TEMPLATE AREAS CHECKED BY DATE



CUT = 0 SQ. FT.
FILL = 11.9 SQ. FT.
UNSUITABLE = 16.9 SQ. FT.

CUT = 0.2 SQ. FT.
FILL = 3.7 SQ. FT.
UNSUITABLE = 12.1 SQ. FT.

CUT = 0 SQ. FT.
FILL = 26.4 SQ. FT.
UNSUITABLE = 18.2 SQ. FT.

CUT = 0 SQ. FT.
FILL = 23.2 SQ. FT.
UNSUITABLE = 22.6 SQ. FT.

CUT = 0 SQ. FT.
FILL = 25.8 SQ. FT.
UNSUITABLE = 22.3 SQ. FT.

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -
#FILE#		DRAWN -	REVISED -
#MODELNAME#		CHECKED - DDL	REVISED -
		DATE - 10/20/14	REVISED -
	PLOT SCALE = *SCALE*		
	PLOT DATE = *DATE*		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH BIKE TRAIL EXTENSION
CROSS SECTIONS

SCALE: SHEET 2 OF 37 SHEETS STA. 16+00.00 TO STA. 20+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	77
CONTRACT NO. 61A86			ILLINOIS FED. AID PROJECT	

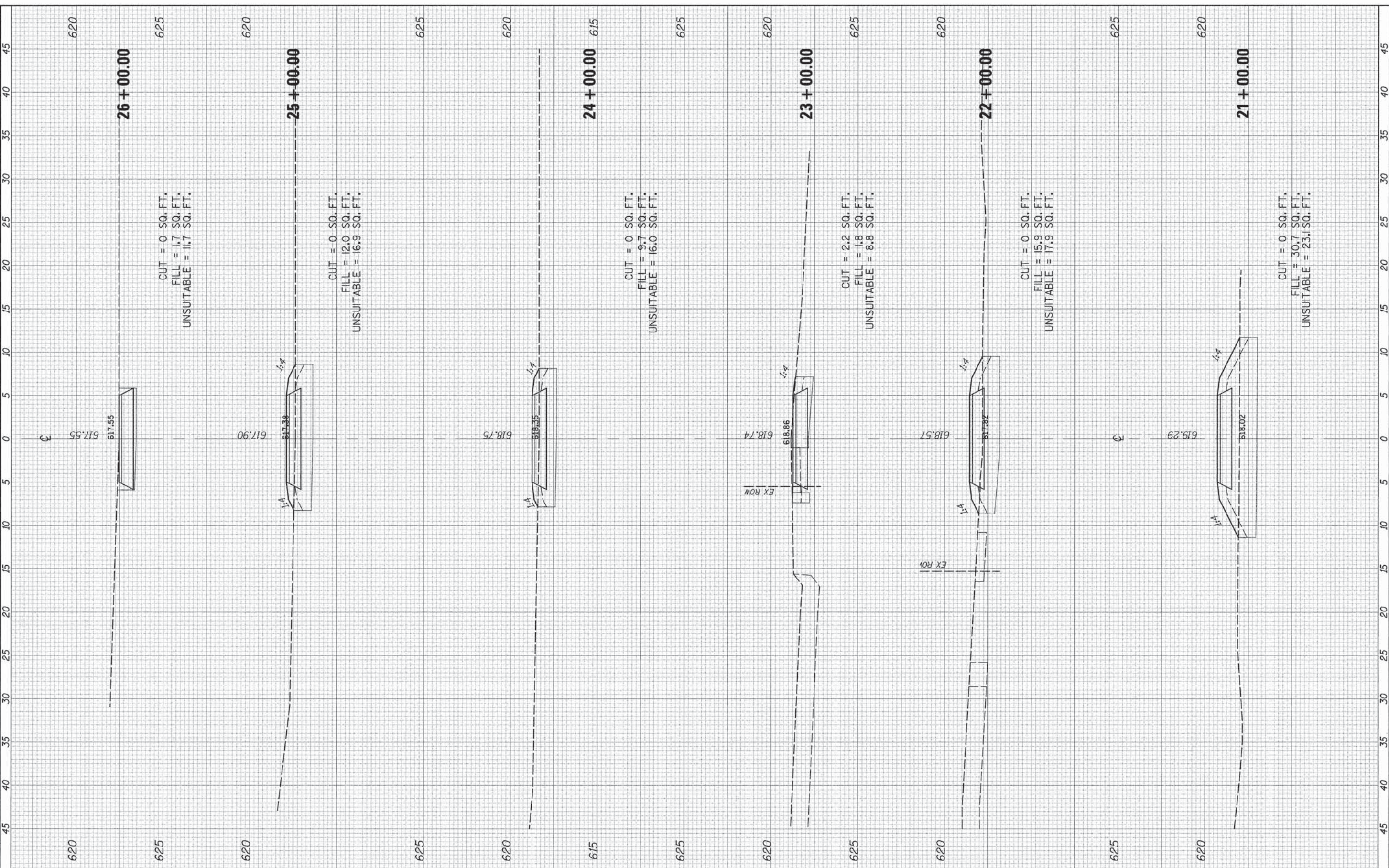
Drawn by: NorthBranch2.dgn 8/11/2014 4:18:24 PM

FINAL SURVEY NOTE BOOK NO. _____
 SURVEYED _____ BY _____ DATE _____
 TEMPLATE AREAS CHECKED _____

ORIGINAL SURVEY NOTE BOOK NO. _____
 SURVEYED _____ BY _____ DATE _____
 TEMPLATE AREAS CHECKED _____

625

625



FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -
#FILE#		DRAWN -	REVISED -
		CHECKED - DDL	REVISED -
#MODELNAME#		DATE - 10/20/14	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

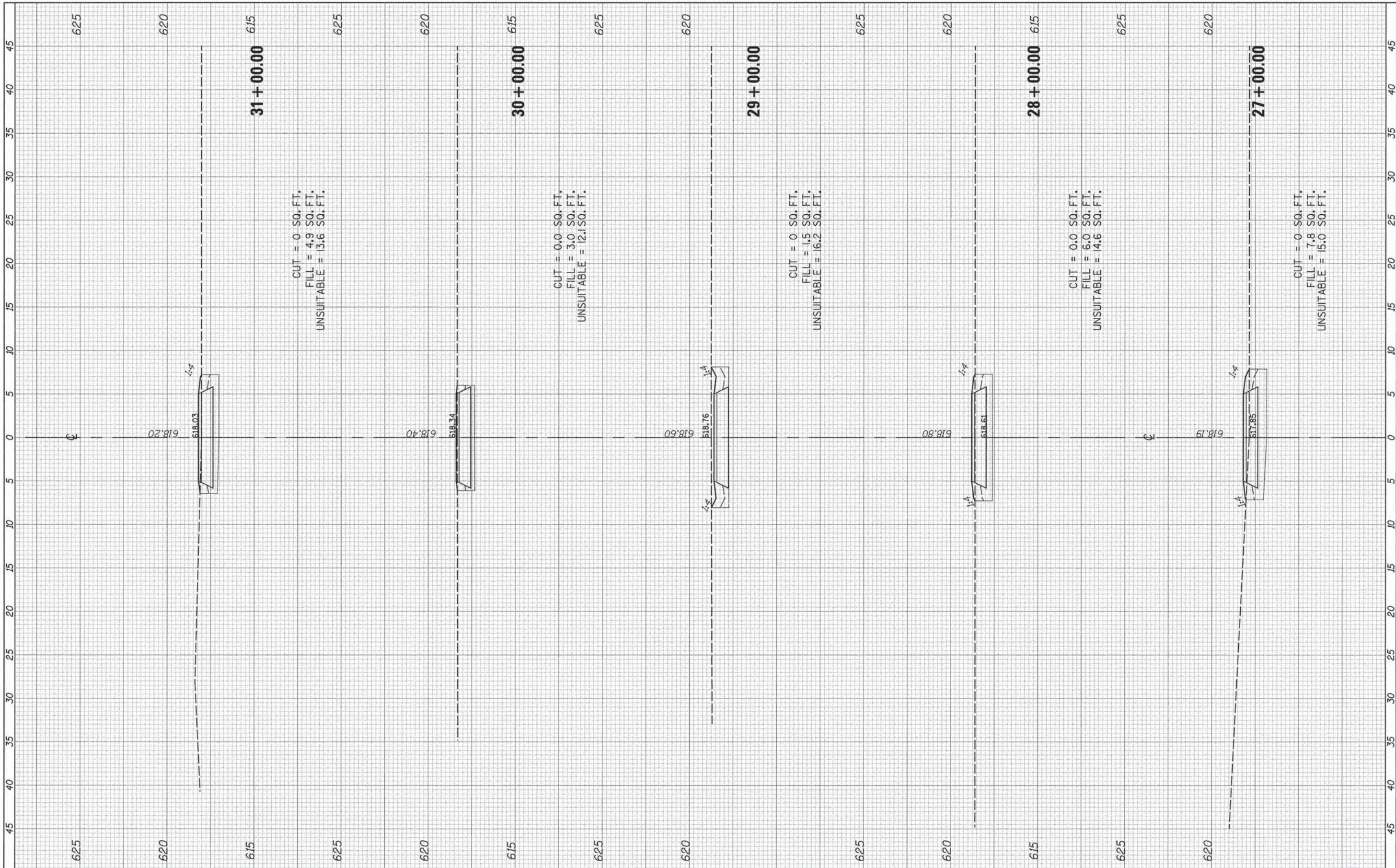
NORTH BRANCH BIKE TRAIL EXTENSION
 CROSS SECTIONS

SCALE: SHEET 3 OF 37 SHEETS STA. 21+00.00 TO STA. 26+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	78
CONTRACT NO. 61A86				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NOTE BOOK NO. _____
 SURVEYED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 AREAS CHECKED _____

ORIGINAL SURVEY NOTE BOOK NO. _____
 SURVEYED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 AREAS CHECKED _____



FILE NAME = #FILEL#
 #MODELNAME#

USER NAME = #USER#
 PLOT SCALE = #SCALE#
 PLOT DATE = #DATE#

DESIGNED -
 DRAWN -
 CHECKED - DDL
 DATE - 10/20/14

REVISED -
 REVISED -
 REVISED -
 REVISED -

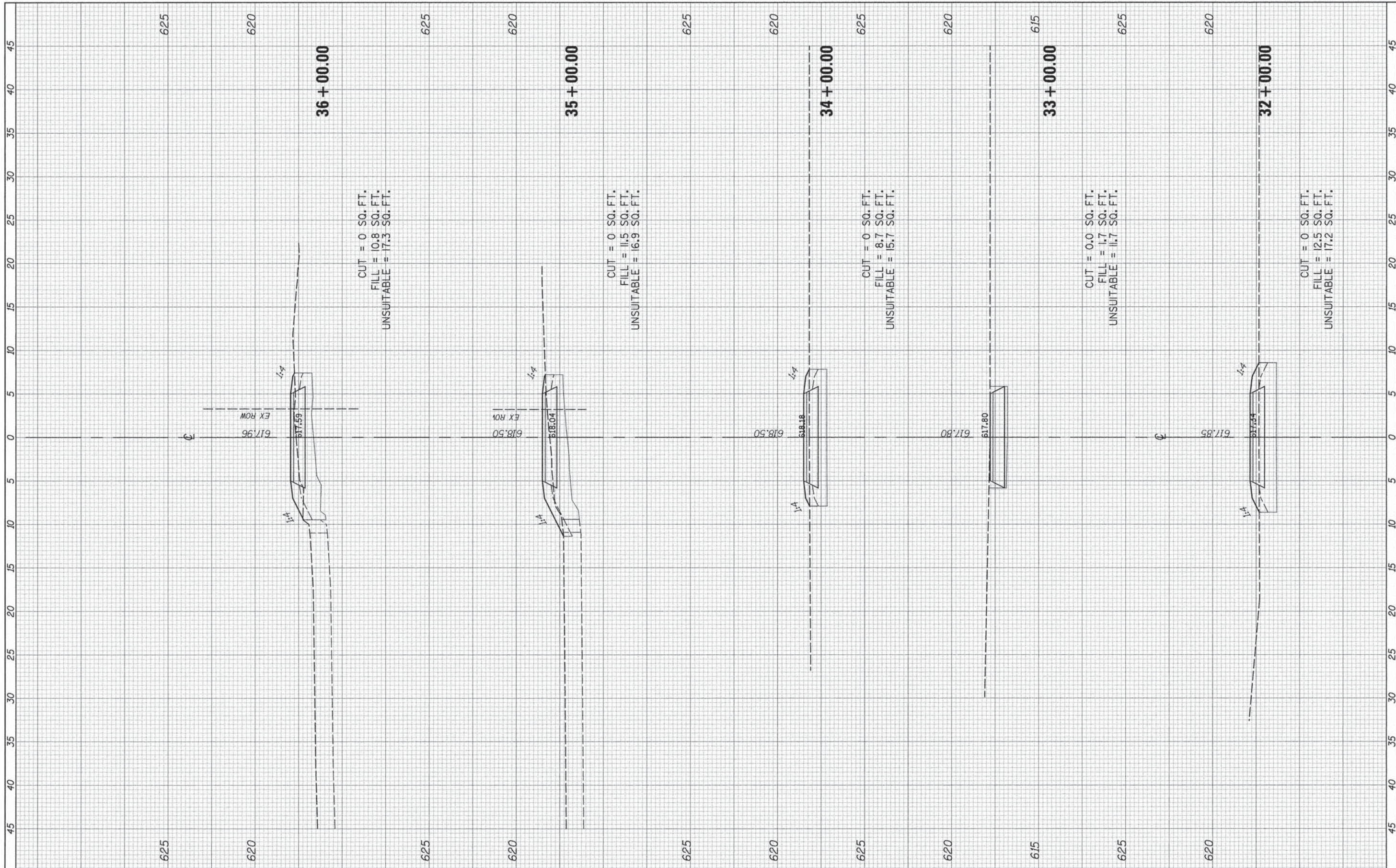
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

NORTH BRANCH BIKE TRAIL EXTENSION
 CROSS SECTIONS
 SCALE: SHEET 4 OF 37 SHEETS STA. 27+00.00 TO STA. 31+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	79
CONTRACT NO. 61A86			ILLINOIS FED. AID PROJECT	

FINAL SURVEY PLOTTED DATE BY
 NO. AREAS CHECKED

ORIGINAL SURVEY PLOTTED DATE BY
 NO. AREAS CHECKED



FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -
#FILE#		DRAWN -	REVISED -
	PLOT SCALE = #SCALE#	CHECKED - DDL	REVISED -
#MODELNAME#	PLOT DATE = #DATE#	DATE - 10/20/14	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTH BRANCH BIKE TRAIL EXTENSION
 CROSS SECTIONS**

SCALE: SHEET 5 OF 37 SHEETS STA. 32+00.00 TO STA. 36+00.00

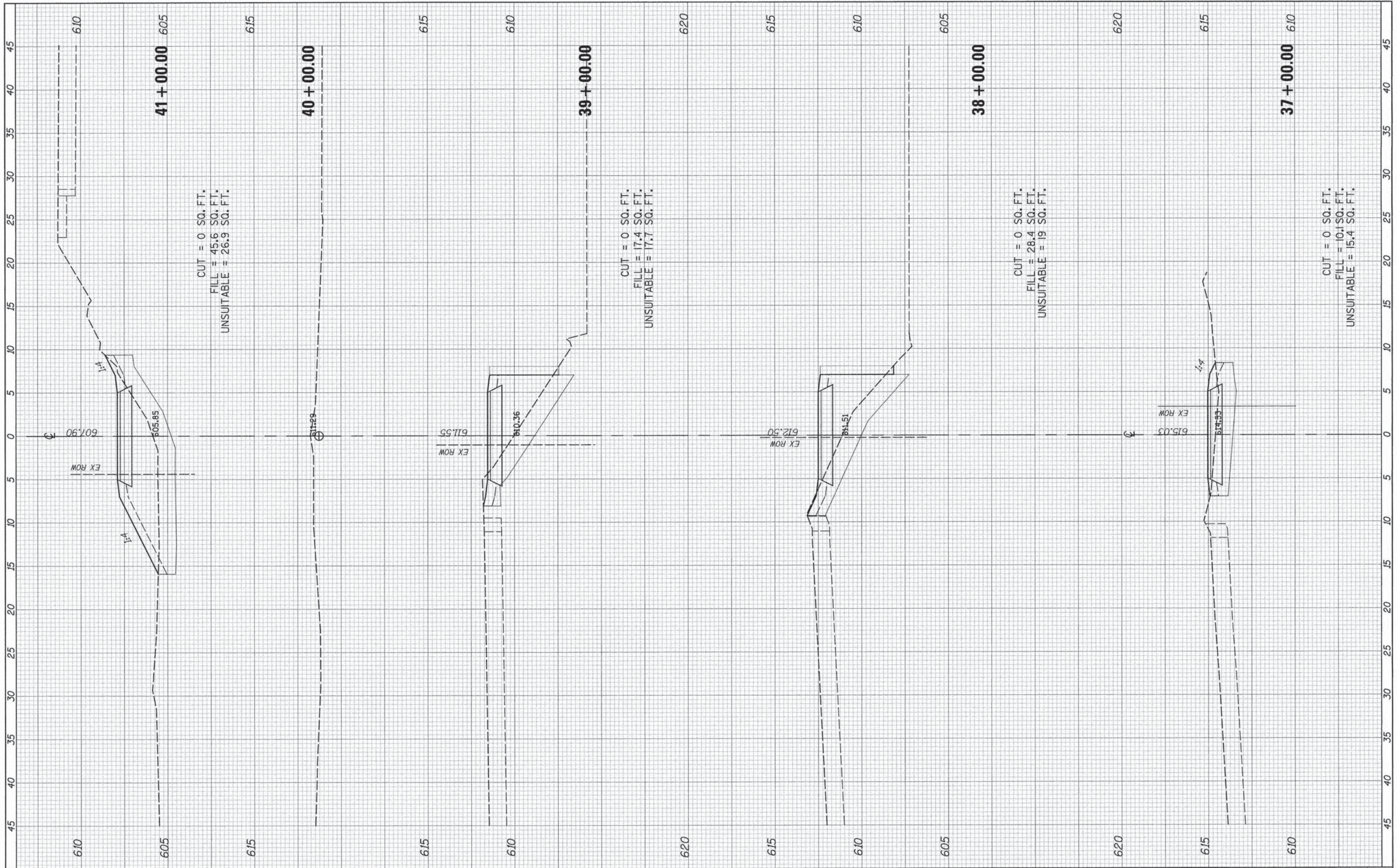
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	80
CONTRACT NO. 61A86				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
NO. _____	BY _____
NO. _____	DATE _____
NO. _____	BY _____
NO. _____	DATE _____
NO. _____	BY _____
NO. _____	DATE _____

ORIGINAL SURVEY	DATE
NO. _____	BY _____
NO. _____	DATE _____
NO. _____	BY _____
NO. _____	DATE _____
NO. _____	BY _____
NO. _____	DATE _____

615

615



CUT = 0 SQ. FT.
 FILL = 45.6 SQ. FT.
 UNSUITABLE = 26.9 SQ. FT.

CUT = 0 SQ. FT.
 FILL = 17.4 SQ. FT.
 UNSUITABLE = 17.7 SQ. FT.

CUT = 0 SQ. FT.
 FILL = 28.4 SQ. FT.
 UNSUITABLE = 19 SQ. FT.

CUT = 0 SQ. FT.
 FILL = 10.1 SQ. FT.
 UNSUITABLE = 15.4 SQ. FT.

FILE NAME =	USER NAME = #USER#
#FILE#	
#MODELNAME#	

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED - DDL	REVISED -
DATE - 10/20/14	REVISED -

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED - DDL	REVISED -
DATE - 10/20/14	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

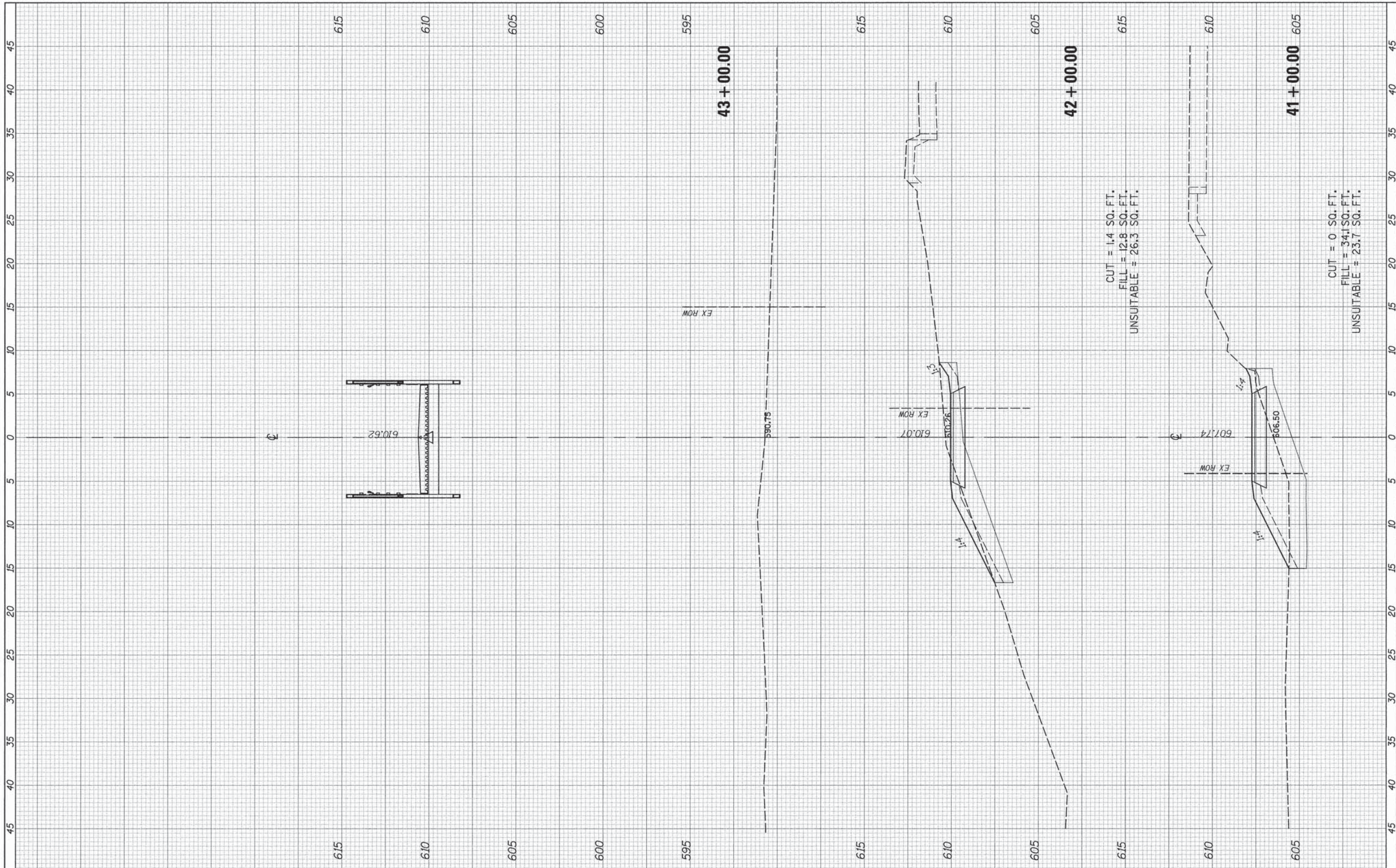
NORTH BRANCH BIKE TRAIL EXTENSION
 CROSS SECTIONS

SCALE: SHEET 6 OF 37 SHEETS STA. 37+00.00 TO STA. 41+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	81
CONTRACT NO. 61A86			ILLINOIS FED. AID PROJECT	

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
CHECKED		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
CHECKED		



FILE NAME *
#FILEL*
#MODELNAME*

USER NAME *#USER*
PLOT SCALE *#SCALE*
PLOT DATE *#DATE*

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED - DDL	REVISED -
DATE - 10/20/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

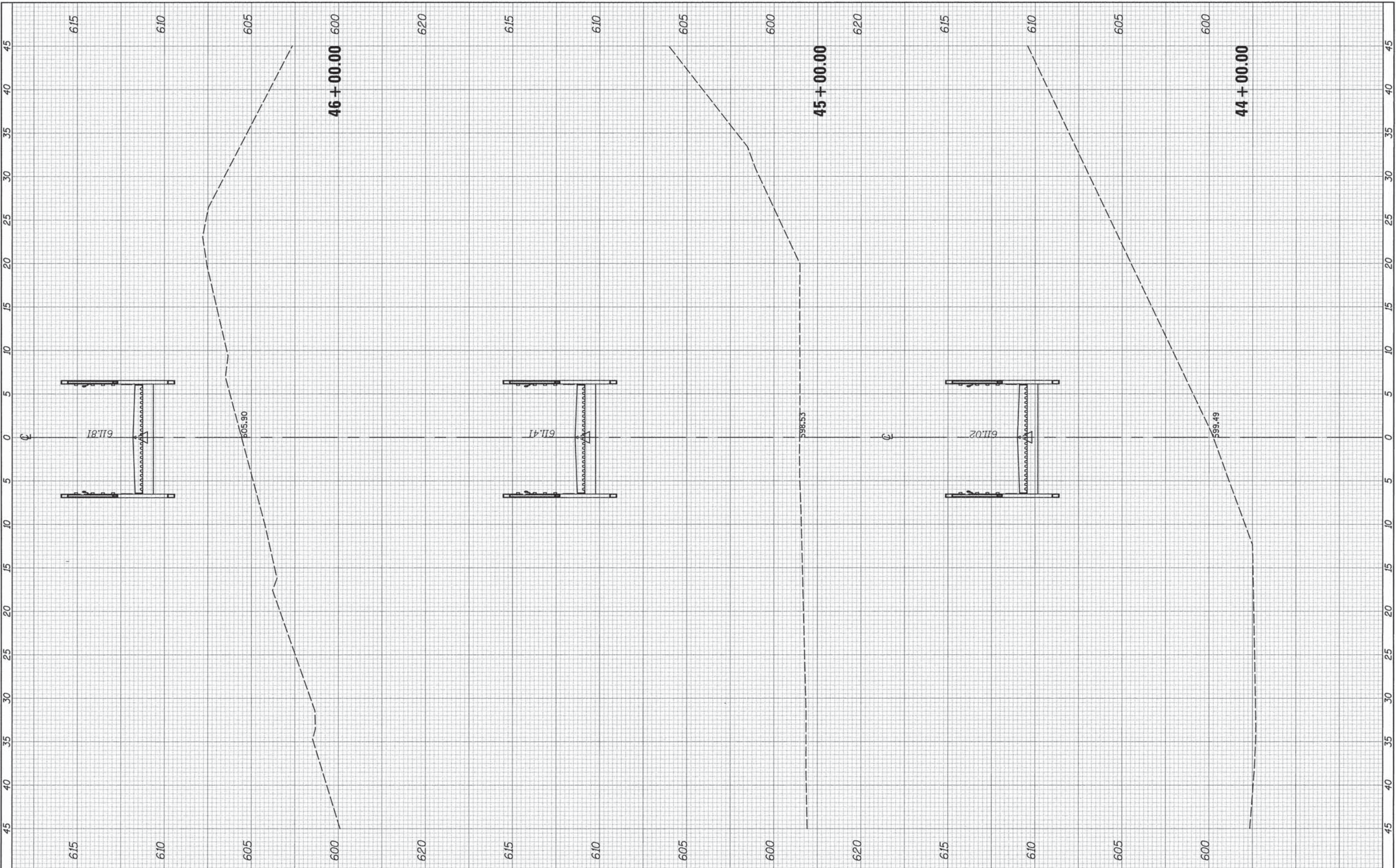
**NORTH BRANCH BIKE TRAIL EXTENSION
CROSS SECTIONS**

SCALE: SHEET 7 OF 37 SHEETS STA. 41+00.00 TO STA. 43+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	82
			CONTRACT NO. 61A86	
ILLINOIS FED. AID PROJECT				

620

620



FINAL SURVEY NOTE BOOK NO.	DATE
REVISIONS	BY
PLOTTED	
TEMPLATE	
AREAS CHECKED	

ORIGINAL SURVEY NOTE BOOK NO.	DATE
REVISIONS	BY
PLOTTED	
TEMPLATE	
AREAS CHECKED	

FILE NAME =	USER NAME = *USER*
%FILE#	DESIGNED -
*MODELNAME#	DRAWN -
	CHECKED - DDL
	DATE - 10/20/14

PLOT SCALE = *SCALE*	REVISIONS
PLOT DATE = *DATE*	REVISIONS
	REVISIONS
	REVISIONS

DESIGNED -	REVISIONS
DRAWN -	REVISIONS
CHECKED - DDL	REVISIONS
DATE - 10/20/14	REVISIONS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

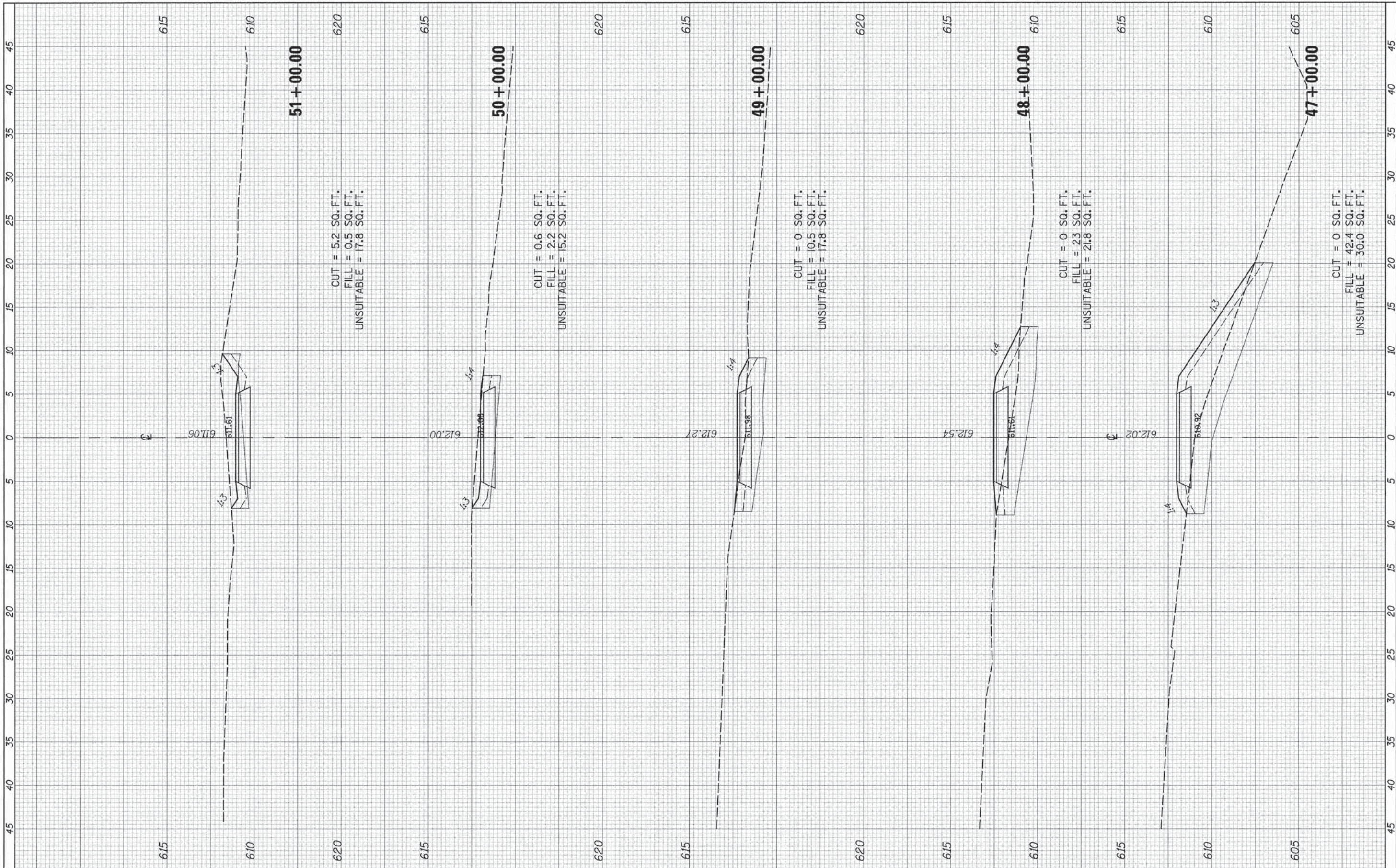
**NORTH BRANCH BIKE TRAIL EXTENSION
CROSS SECTIONS**

SCALE: SHEET 8 OF 37 SHEETS STA. 44+00.00 TO STA. 46+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	83
			CONTRACT NO. 61A86	
			ILLINOIS FED. AID PROJECT	

FINAL SURVEY BY DATE
 SURVEYED BY DATE
 NOTE BOOK NO.
 TEMPLATE AREAS CHECKED

ORIGINAL SURVEY BY DATE
 SURVEYED BY DATE
 NOTE BOOK NO.
 TEMPLATE AREAS CHECKED



FILE NAME *
 #FILEL#
 #MODELNAME#

USER NAME = #USER#
 PLOT SCALE = #SCALE#
 PLOT DATE = #DATE#

DESIGNED -
 DRAWN -
 CHECKED - DDL
 DATE - 10/20/14

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

NORTH BRANCH BIKE TRAIL EXTENSION
 CROSS SECTIONS
 SCALE: SHEET 9 OF 37 SHEETS STA. 47+00.00 TO STA. 51+00.00

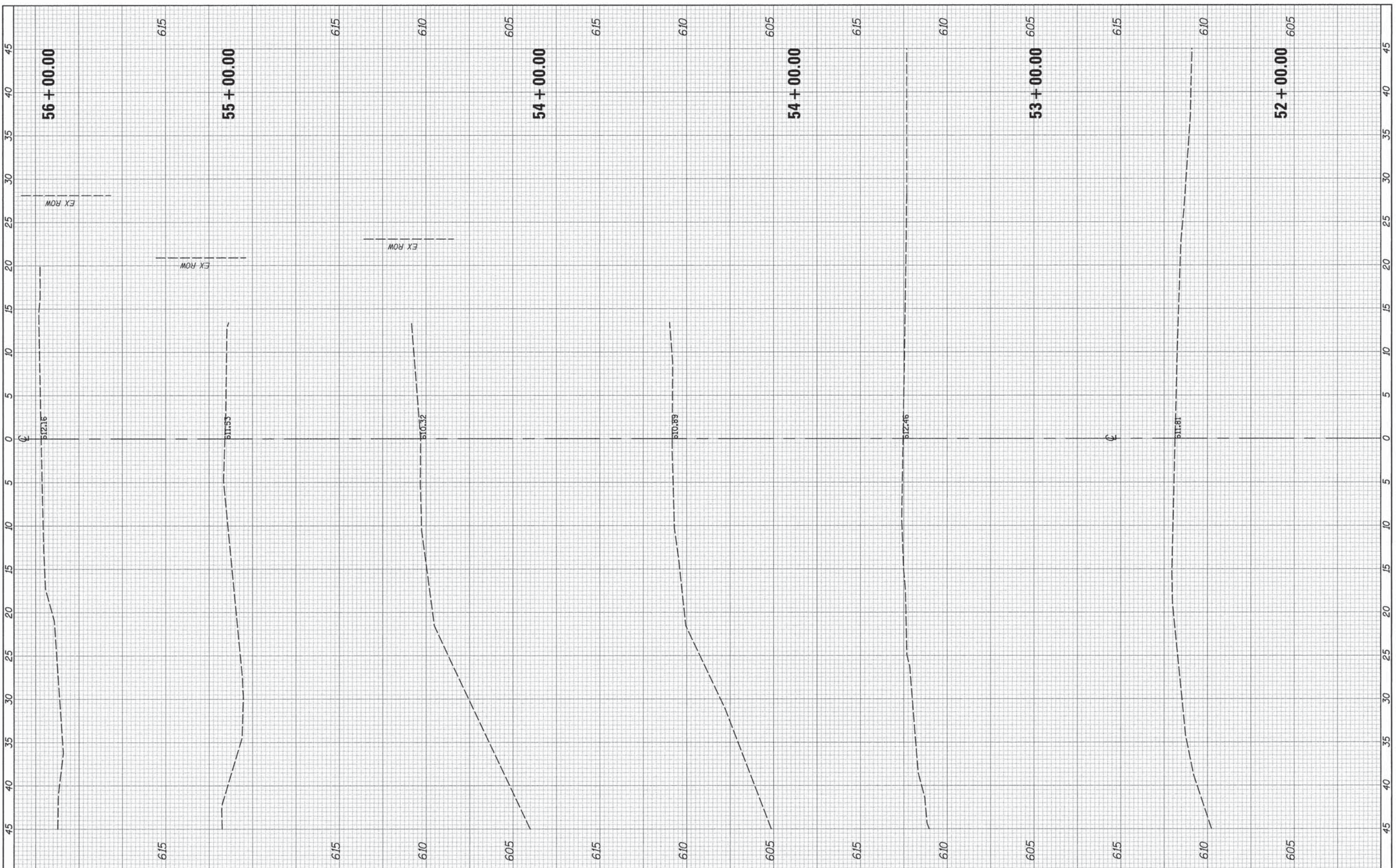
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	84
CONTRACT NO. 61A86			ILLINOIS FED. AID PROJECT	

FINAL SURVEY SURVEYED PLOTTED BY DATE
 NOTE BOOK NO. DATE
 AREAS CHECKED

ORIGINAL SURVEY SURVEYED PLOTTED BY DATE
 NOTE BOOK NO. DATE
 AREAS CHECKED

615

615



FILE NAME *	USER NAME = #USER*	DESIGNED -	REVISED -
#FILEL*		DRAWN -	REVISED -
#MODELNAME*		CHECKED - DDL	REVISED -
		DATE - 10/20/14	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

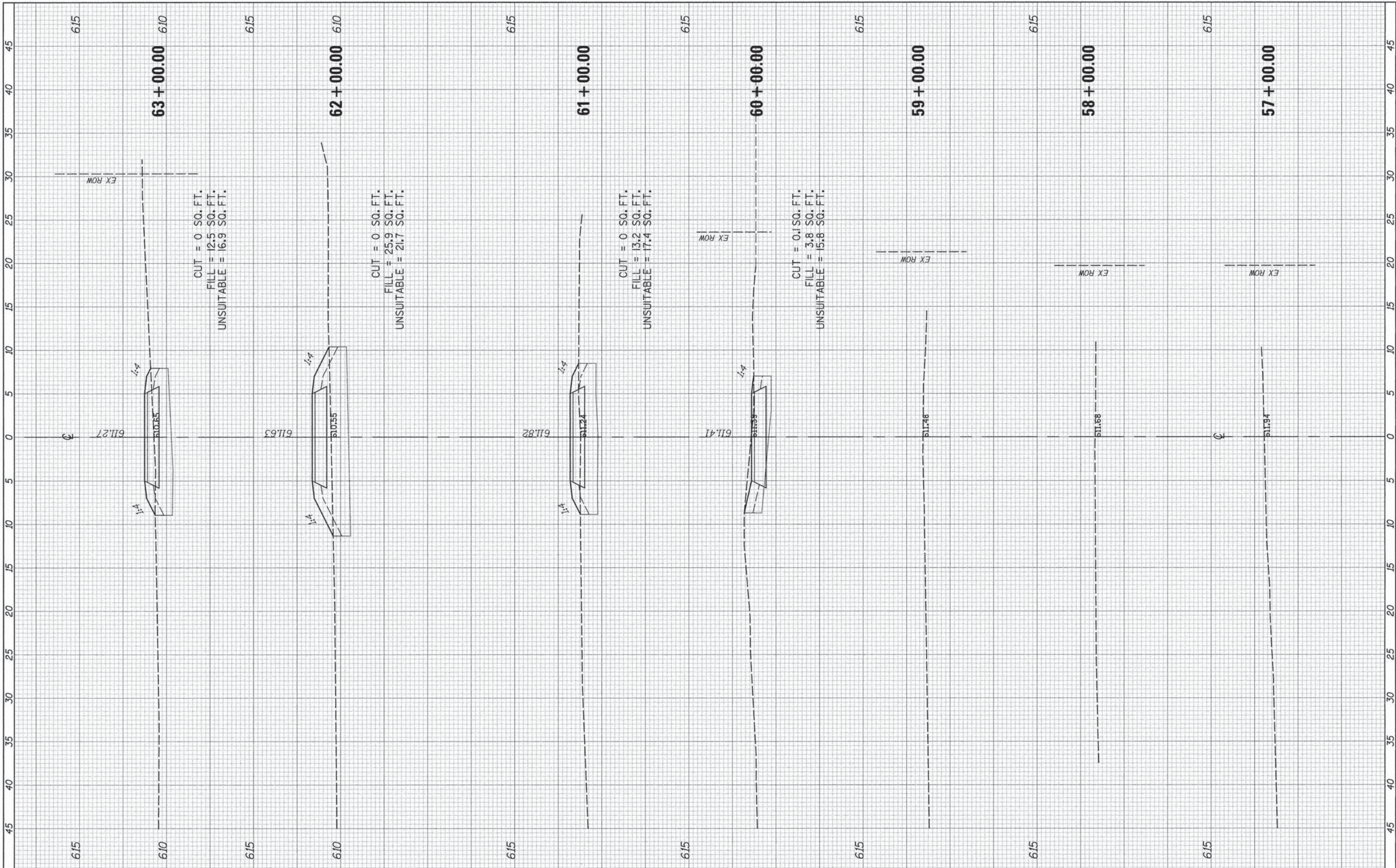
**NORTH BRANCH BIKE TRAIL EXTENSION
 CROSS SECTIONS**

SCALE: SHEET 10 OF 37 SHEETS STA. 52+00.00 TO STA. 56+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	85
			CONTRACT NO. 61A86	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
NO.	
AREAS CHECKED	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
NO.	
AREAS CHECKED	
AREAS CHECKED	



CUT = 0 SQ. FT.
 FILL = 12.5 SQ. FT.
 UNSUITABLE = 16.9 SQ. FT.

CUT = 0 SQ. FT.
 FILL = 25.9 SQ. FT.
 UNSUITABLE = 21.7 SQ. FT.

CUT = 0 SQ. FT.
 FILL = 13.2 SQ. FT.
 UNSUITABLE = 17.4 SQ. FT.

CUT = 0.1 SQ. FT.
 FILL = 3.8 SQ. FT.
 UNSUITABLE = 15.8 SQ. FT.

FILE NAME =
 #FILEL#
 #MODELNAME#

USER NAME = #USER#
 PLOT SCALE = #SCALE#
 PLOT DATE = #DATE#

DESIGNED -
 DRAWN -
 CHECKED - DDL
 DATE - 10/20/14

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

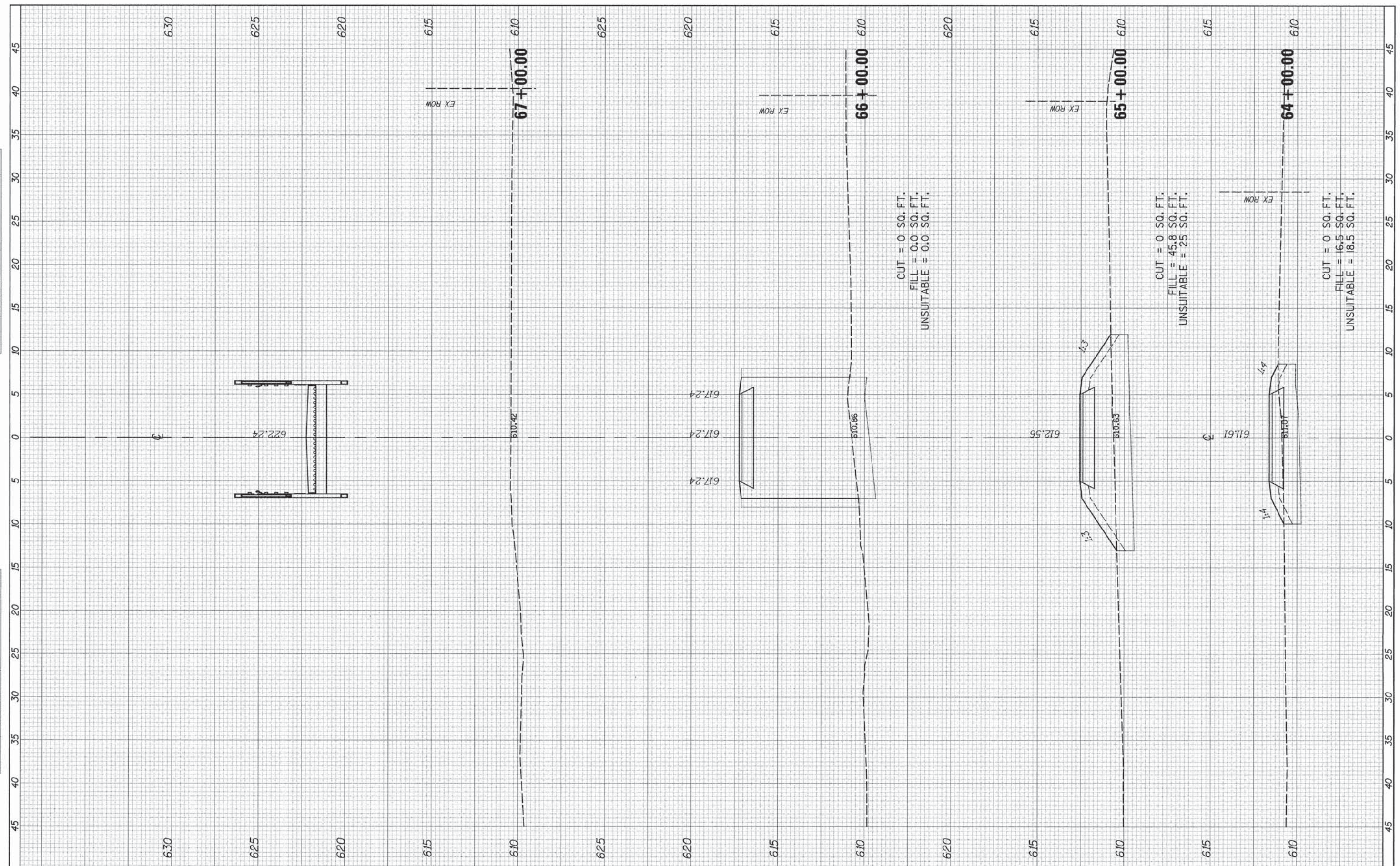
NORTH BRANCH BIKE TRAIL EXTENSION
 CROSS SECTIONS

SCALE: SHEET 11 OF 37 SHEETS STA. 57+00.00 TO STA. 63+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	86
CONTRACT NO. 61A86			ILLINOIS FED. AID PROJECT	

FINAL SURVEY BY DATE
 SURVEYED PLOTTED
 NOTE BOOK AREAS AREAS
 NO. DATE CHECKED

ORIGINAL SURVEY BY DATE
 SURVEYED PLOTTED
 NOTE BOOK AREAS AREAS
 NO. DATE CHECKED



CUT = 0 SQ. FT.
 FILL = 0.0 SQ. FT.
 UNSUITABLE = 0.0 SQ. FT.

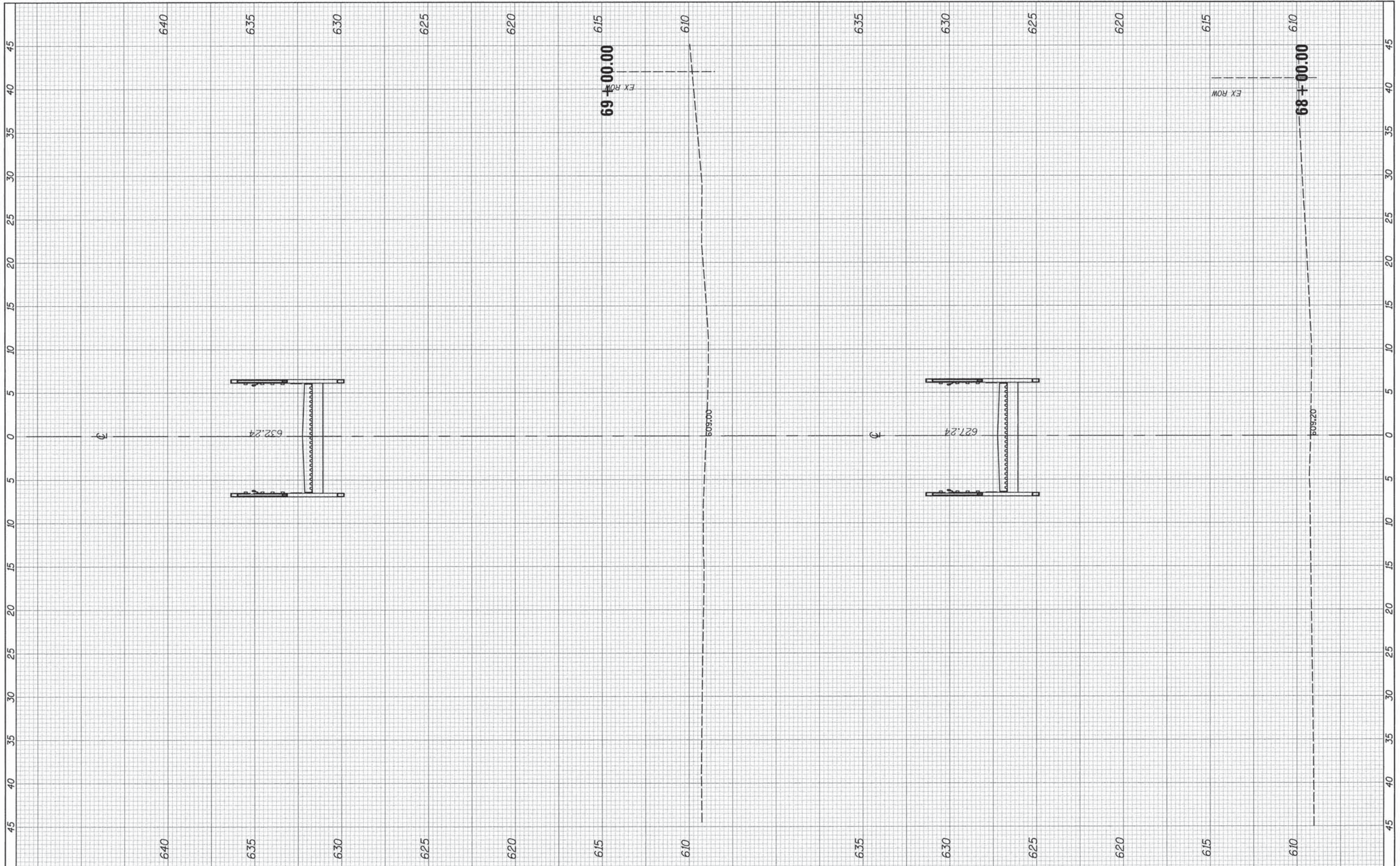
CUT = 0 SQ. FT.
 FILL = 45.8 SQ. FT.
 UNSUITABLE = 25 SQ. FT.

CUT = 0 SQ. FT.
 FILL = 16.5 SQ. FT.
 UNSUITABLE = 18.5 SQ. FT.

FILE NAME : #FILEL#	USER NAME = #USER#	DESIGNED - DRAWN - CHECKED - DDL DATE - 10/20/14	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH BRANCH BIKE TRAIL EXTENSION CROSS SECTIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#MODELNAME#	PLOT SCALE = #SCALE#	PLOT DATE = #DATE#	SCALE:			SHEET 12 OF 37 SHEETS	STA. 64+00.00 TO STA. 67+00.00	08-F3000-21-BT	COOK	98
						CONTRACT NO. 61A86				
						ILLINOIS FED. AID PROJECT				

FINAL SURVEY
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK NO. _____
 DATE _____
 BY _____
 AREAS CHECKED _____

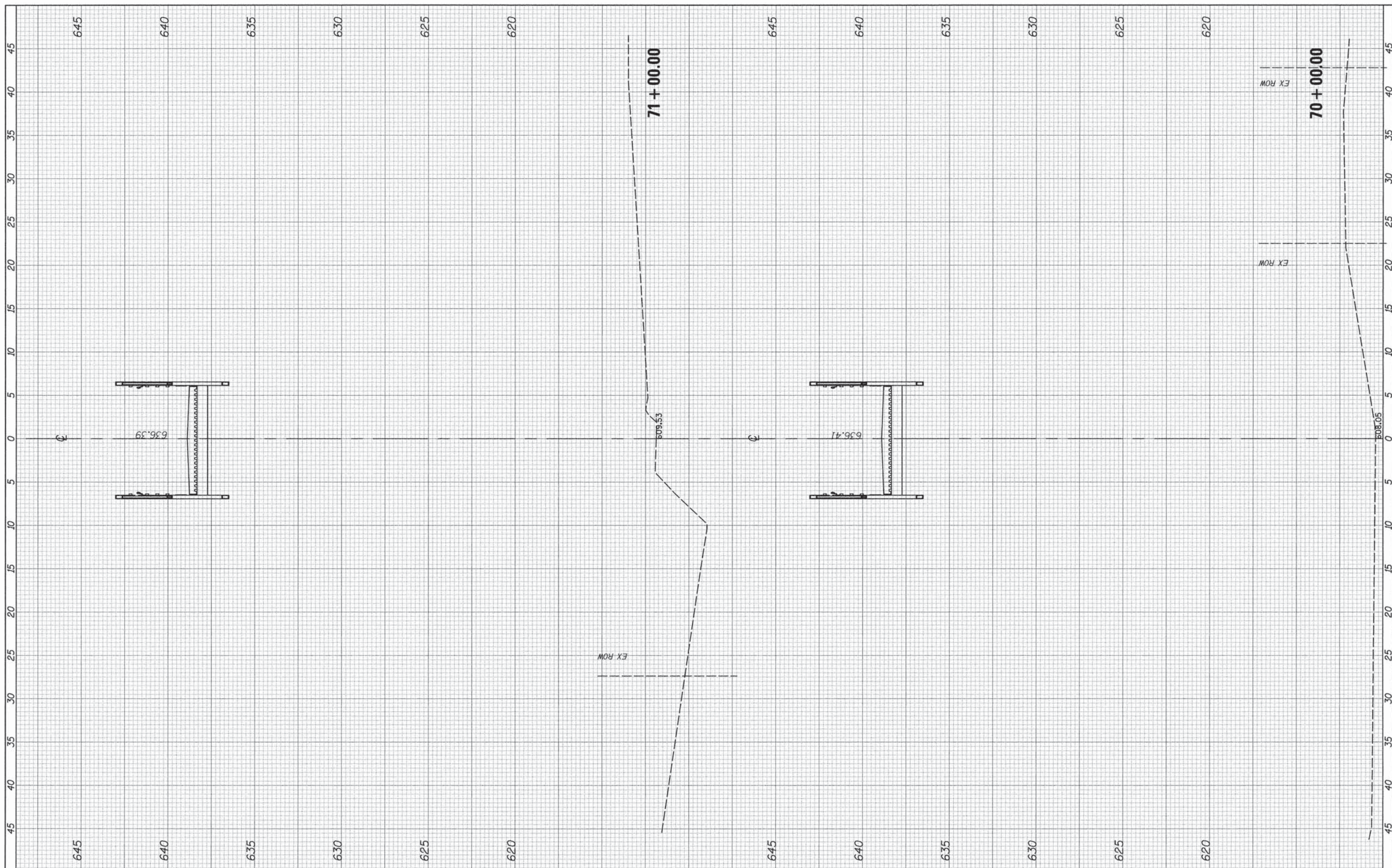
ORIGINAL SURVEY
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK NO. _____
 DATE _____
 BY _____
 AREAS CHECKED _____



FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH BRANCH BIKE TRAIL EXTENSION CROSS SECTIONS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN -	REVISED -				08-F3000-21-BT	COOK	98	88	
MODELNAME		CHECKED - DDL	REVISED -				CONTRACT NO. 61A86				
		DATE - 10/20/14	REVISED -				ILLINOIS FED. AID PROJECT				
							SCALE:	SHEET 13 OF 37 SHEETS	STA. 68+00.00 TO STA. 69+00.00		

FINAL SURVEY
 SURVEYED _____ PLOTTED _____
 NOTE BOOK _____ DATE _____
 NO. _____ AREAS CHECKED _____

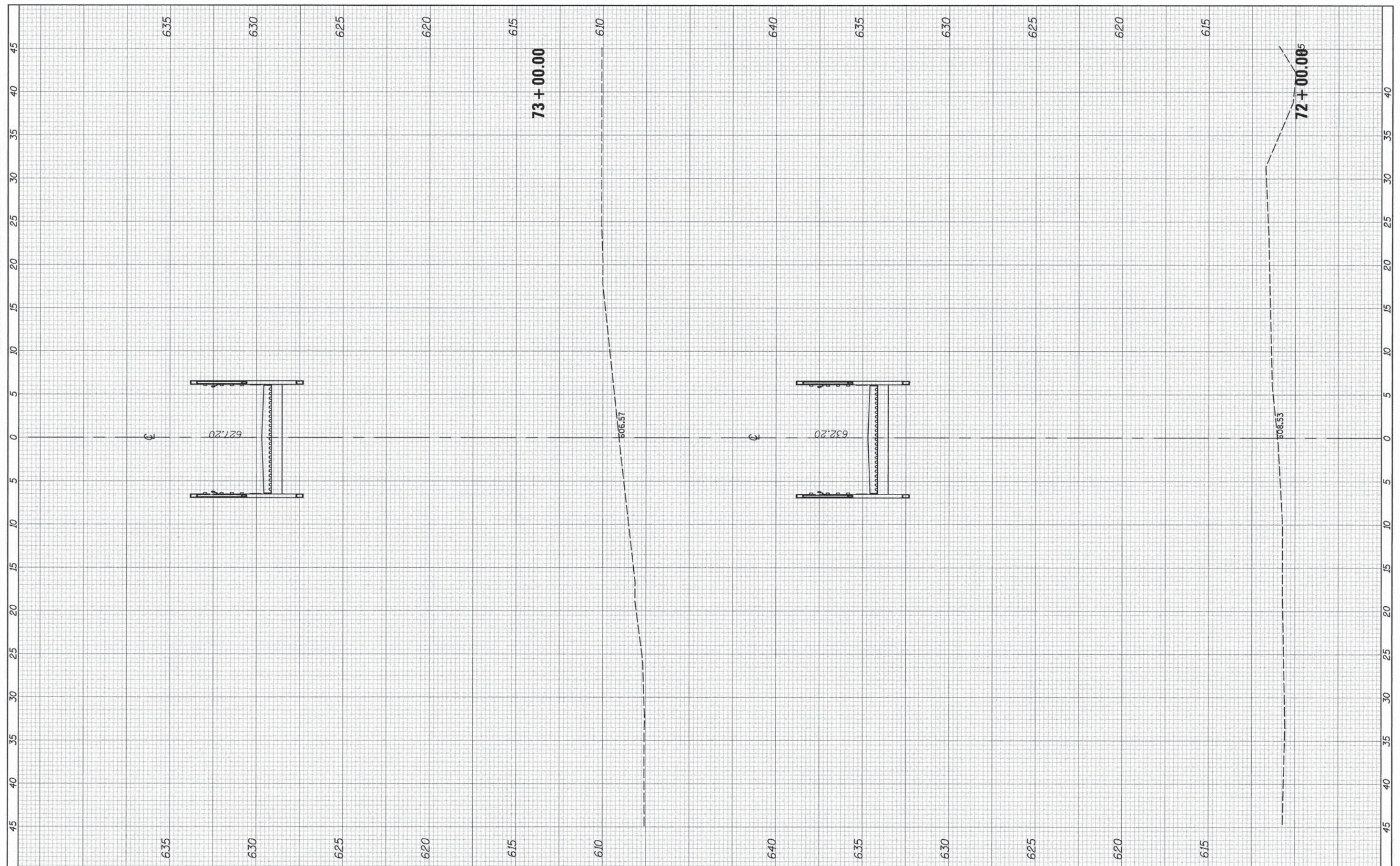
ORIGINAL SURVEY
 SURVEYED _____ PLOTTED _____
 NOTE BOOK _____ DATE _____
 NO. _____ AREAS CHECKED _____



FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH BRANCH BIKE TRAIL EXTENSION CROSS SECTIONS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN -	REVISED -		SCALE:	SHEET 14 OF 37 SHEETS	STA. 70+00.00 TO STA. 71+00.00	08-F3000-21-BT	COOK	98	89	
#MODELNAME#		CHECKED - DDL	REVISED -					CONTRACT NO. 61A86				
		DATE - 10/20/14	REVISED -					ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		



FILE NAME =	USER NAME = #USER#
#FILEL#	
#MODELNAME#	

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED - DDL	REVISED -
DATE - 10/20/14	REVISED -

SCALE:	SHEET 15 OF 37 SHEETS	STA. 72+00.00 TO STA. 73+00.00
--------	-----------------------	--------------------------------

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

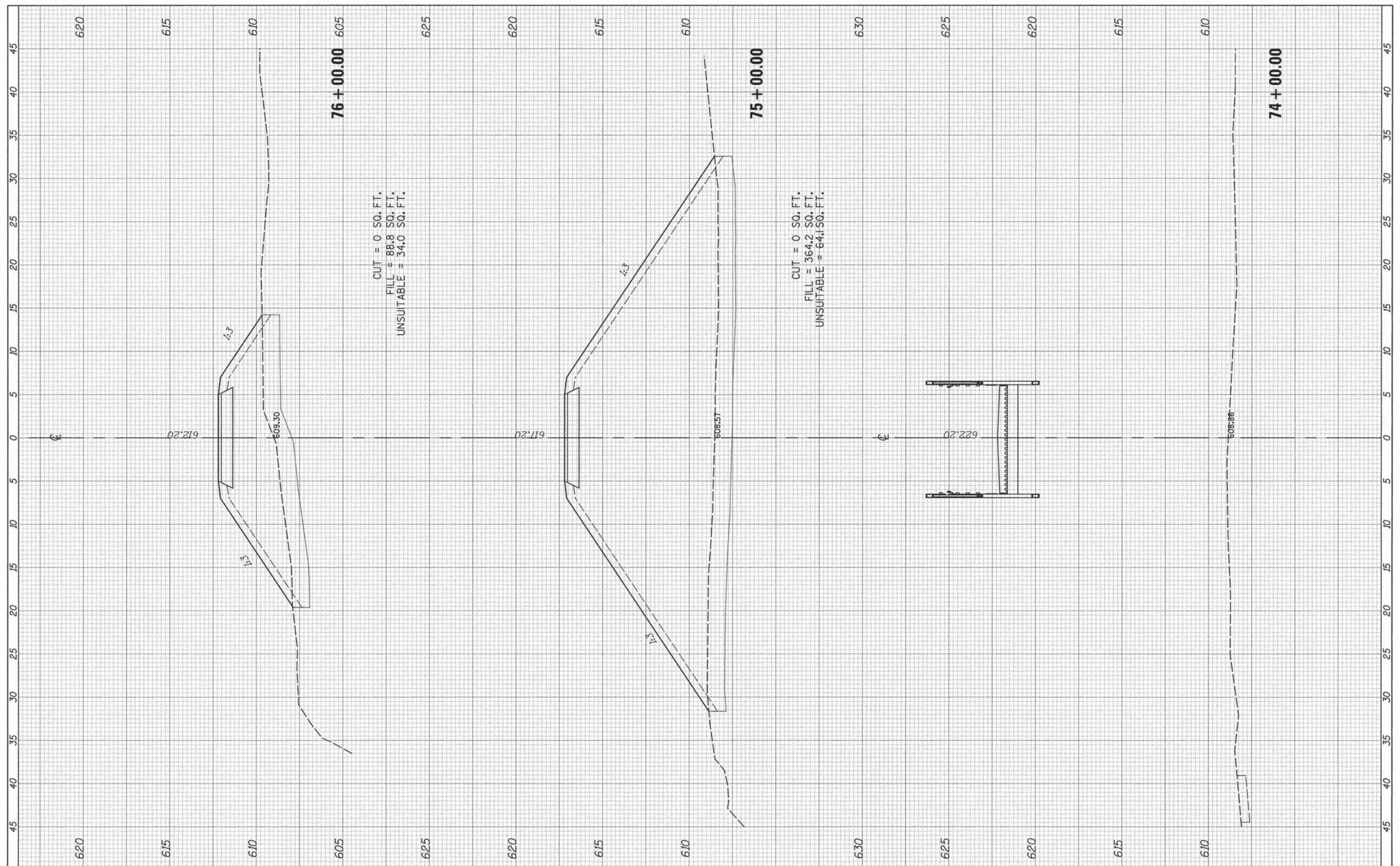
**NORTH BRANCH BIKE TRAIL EXTENSION
CROSS SECTIONS**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	90
CONTRACT NO. 61A86				
ILLINOIS FED. AID PROJECT				

Sheet_010_NorthBranch2.dgn 11/12/15 4:19:31 PM

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	TEMPLATE		
AREAS CHECKED	AREAS CHECKED		
NO.			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	TEMPLATE		
AREAS CHECKED	AREAS CHECKED		
NO.			



CUT = 0 SQ. FT.
 FILL = 88.8 SQ. FT.
 UNSUITABLE = 34.0 SQ. FT.

CUT = 0 SQ. FT.
 FILL = 364.2 SQ. FT.
 UNSUITABLE = 64.1 SQ. FT.

FILE NAME	#FILE#
MODEL NAME	#MODEL#

USER NAME	#USER#
PLOT SCALE	#SCALE#
PLOT DATE	#DATE#

DESIGNED	-
DRAWN	-
CHECKED	- DDL
DATE	- 10/20/14

REVISED	-
REVISED	-
REVISED	-
REVISED	-

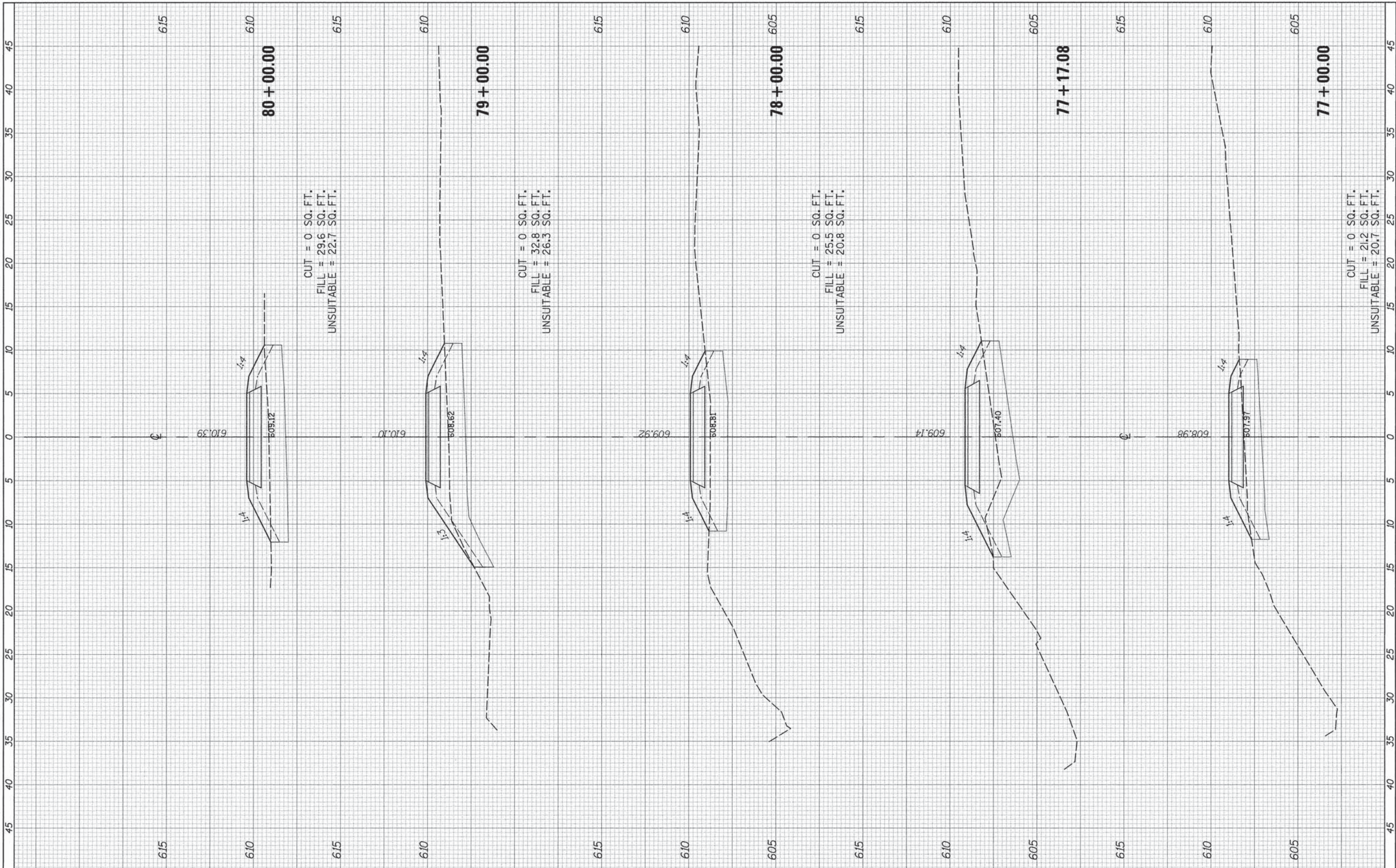
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH BRANCH BIKE TRAIL EXTENSION
CROSS SECTIONS
 SCALE: SHEET 16 OF 37 SHEETS STA. 74+00.00 TO STA. 76+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	91
			CONTRACT NO. 61A86	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	NO.		
TEMPLATE	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	NO.		
TEMPLATE	AREAS CHECKED		



FILE NAME = #FILEL#
 #MODELNAME#

USER NAME = #USER#	DESIGNED -	REVISED -
PLOT SCALE = #SCALE#	DRAWN -	REVISED -
PLOT DATE = #DATE#	CHECKED - DDL	REVISED -
	DATE - 10/20/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

NORTH BRANCH BIKE TRAIL EXTENSION
CROSS SECTIONS
SCALE: SHEET 17 OF 37 SHEETS STA. 77+00.00 TO STA. 80+00.00

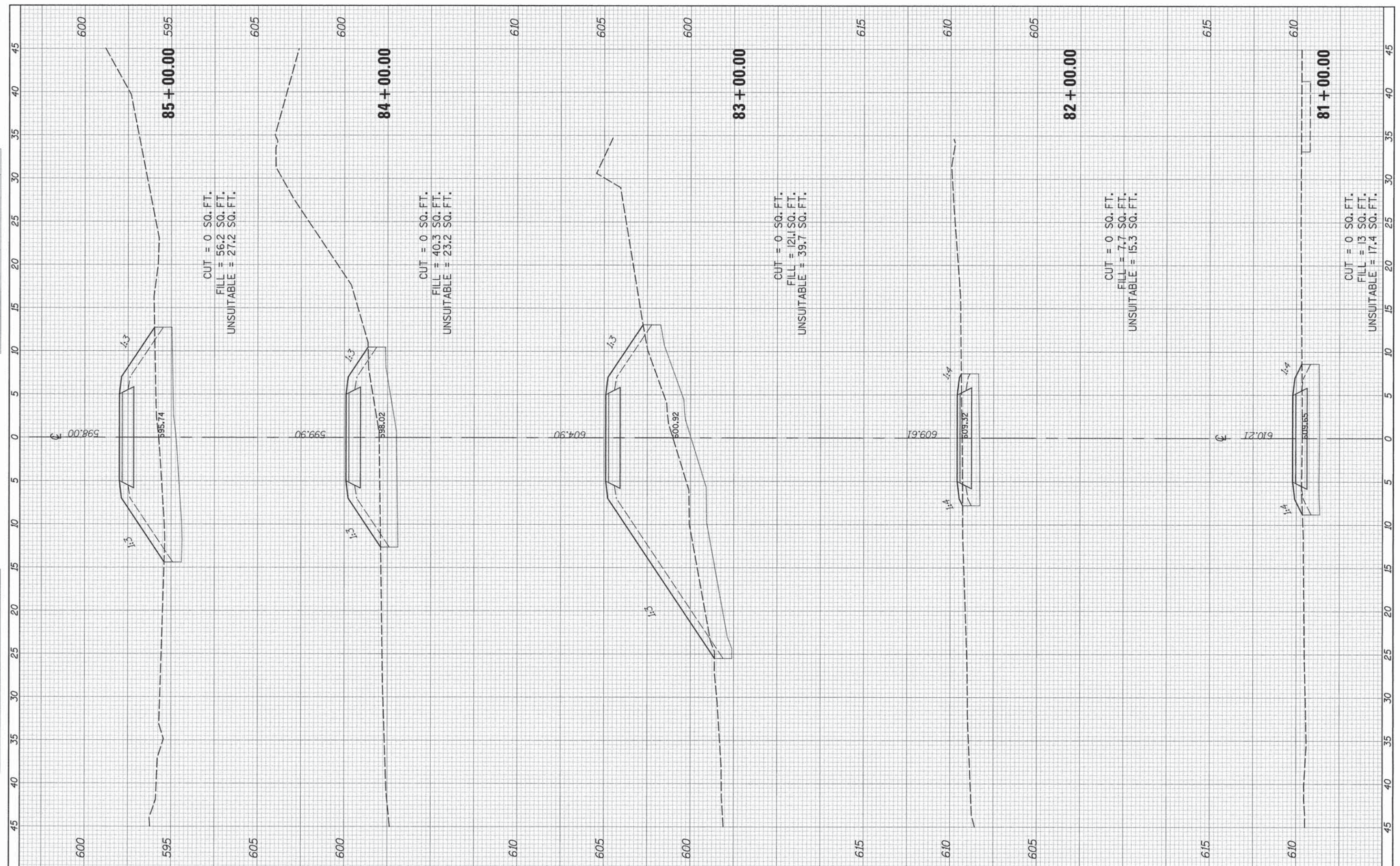
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	92
CONTRACT NO. 61A86			ILLINOIS FED. AID PROJECT	

FINAL SURVEY
 SURVEYED TO DATE
 NO. BY

ORIGINAL SURVEY
 SURVEYED TO DATE
 NO. BY

605

605



CUT = 0 SQ. FT.
 FILL = 56.2 SQ. FT.
 UNSUITABLE = 27.2 SQ. FT.

CUT = 0 SQ. FT.
 FILL = 40.3 SQ. FT.
 UNSUITABLE = 23.2 SQ. FT.

CUT = 0 SQ. FT.
 FILL = 121.1 SQ. FT.
 UNSUITABLE = 39.7 SQ. FT.

CUT = 0 SQ. FT.
 FILL = 7.7 SQ. FT.
 UNSUITABLE = 15.3 SQ. FT.

CUT = 0 SQ. FT.
 FILL = 13 SQ. FT.
 UNSUITABLE = 17.4 SQ. FT.

FILE NAME = #FILEL#
 #MODELNAME#

USER NAME = #USER#
 PLOT SCALE = #SCALE#
 PLOT DATE = #DATE#

DESIGNED -
 DRAWN -
 CHECKED - DDL
 DATE - 10/20/14

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

NORTH BRANCH BIKE TRAIL EXTENSION
 CROSS SECTIONS

SCALE: SHEET 18 OF 37 SHEETS STA. 81+00.00 TO STA. 85+00.00

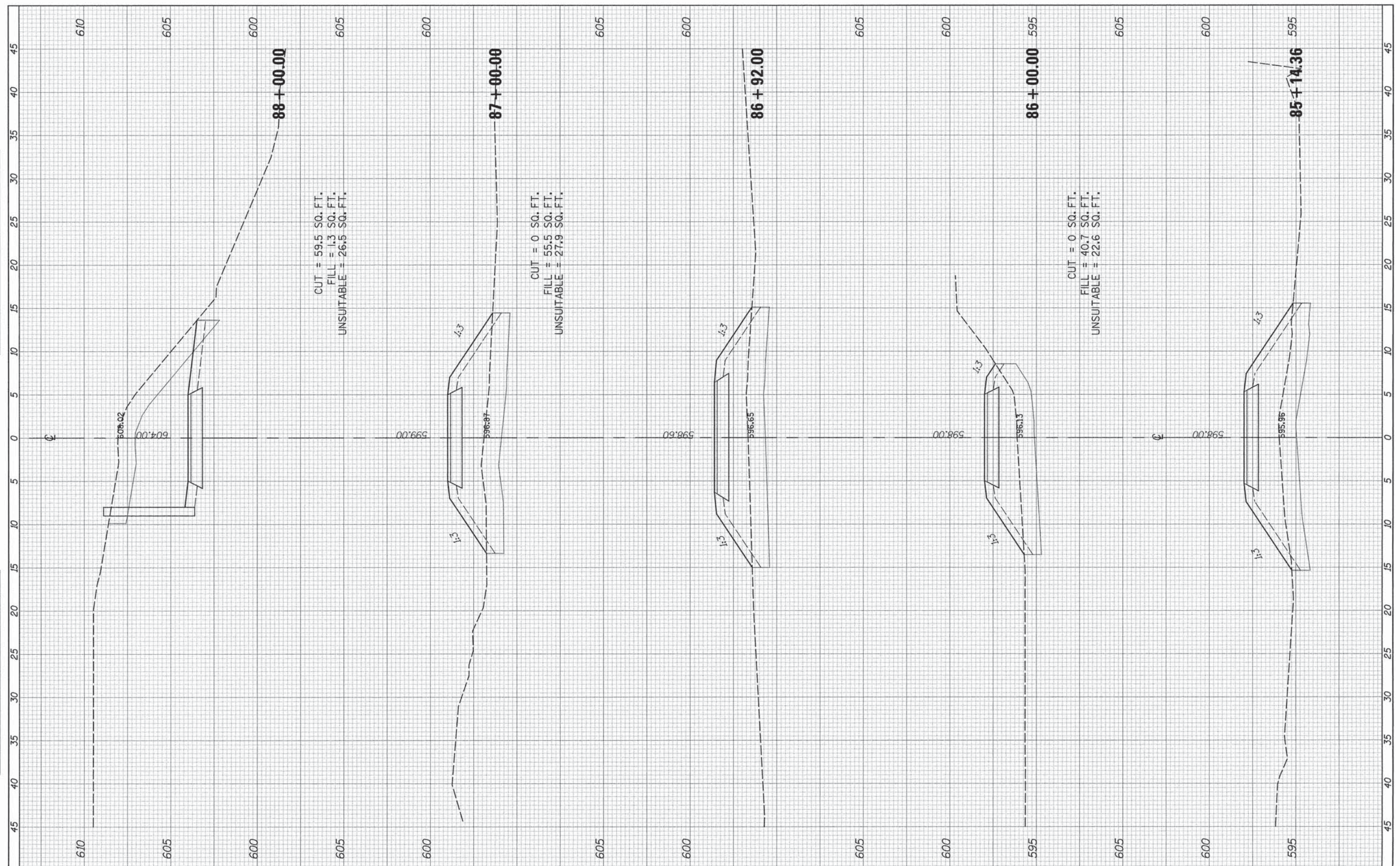
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
	08-F3000-21-BT	COOK	98	93
CONTRACT NO. 61A86				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	NO.		
AREAS CHECKED			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	NO.		
AREAS CHECKED			

615

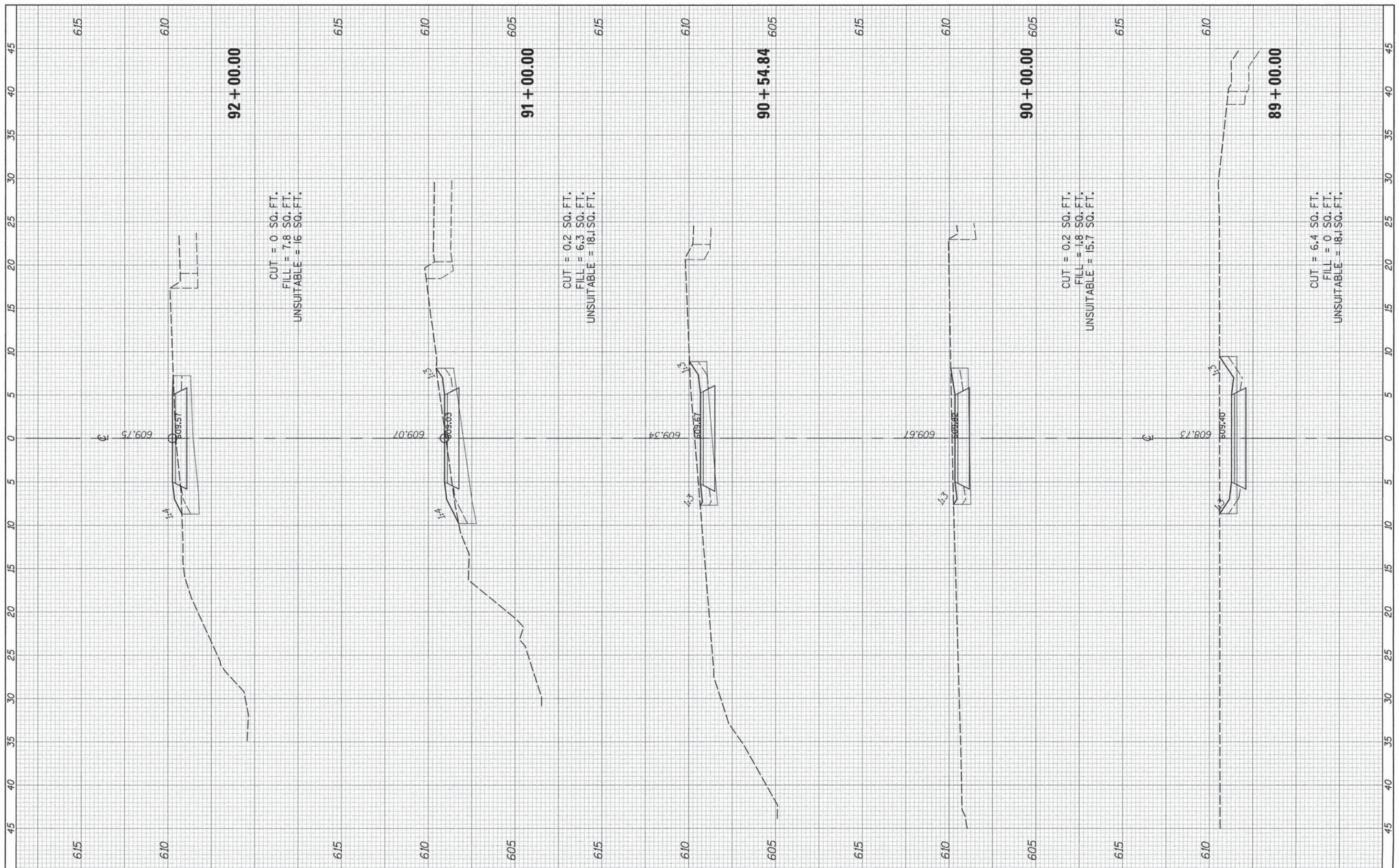
615



FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH BRANCH BIKE TRAIL EXTENSION CROSS SECTIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN -	REVISED -			08-F3000-21-BT	COOK	98	94	
#MODEL#		CHECKED - DDL	REVISED -			CONTRACT NO. 61A86				
		DATE - 10/20/14	REVISED -			ILLINOIS FED. AID PROJECT				
						SCALE:	SHEET 19 OF 37 SHEETS	STA. 85+14.36	TO STA. 88+00.00	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	AREAS		
	CHECKED		

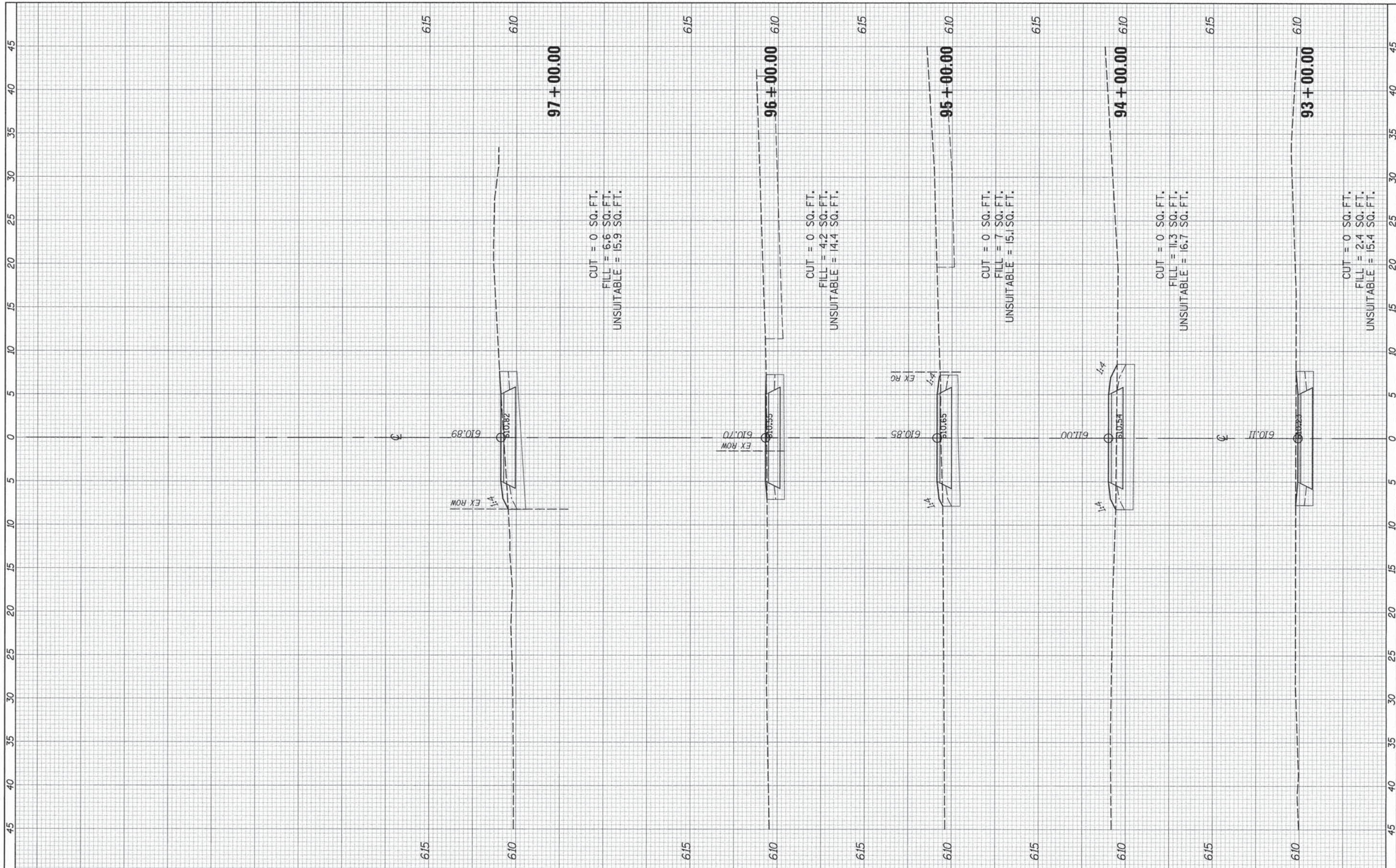
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	AREAS		
	CHECKED		



FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH BRANCH BIKE TRAIL EXTENSION CROSS SECTIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN -	REVISED -			08-F3000-21-BT	COOK	98	95		
#MODELNAME#		CHECKED - DDL	REVISED -			CONTRACT NO. 61A86					
		DATE - 10/20/14	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET 20 OF 37 SHEETS	STA. 89+00.00	TO STA. 92+00.00		

FINAL SURVEY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK NO.	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK NO.	
AREAS CHECKED	

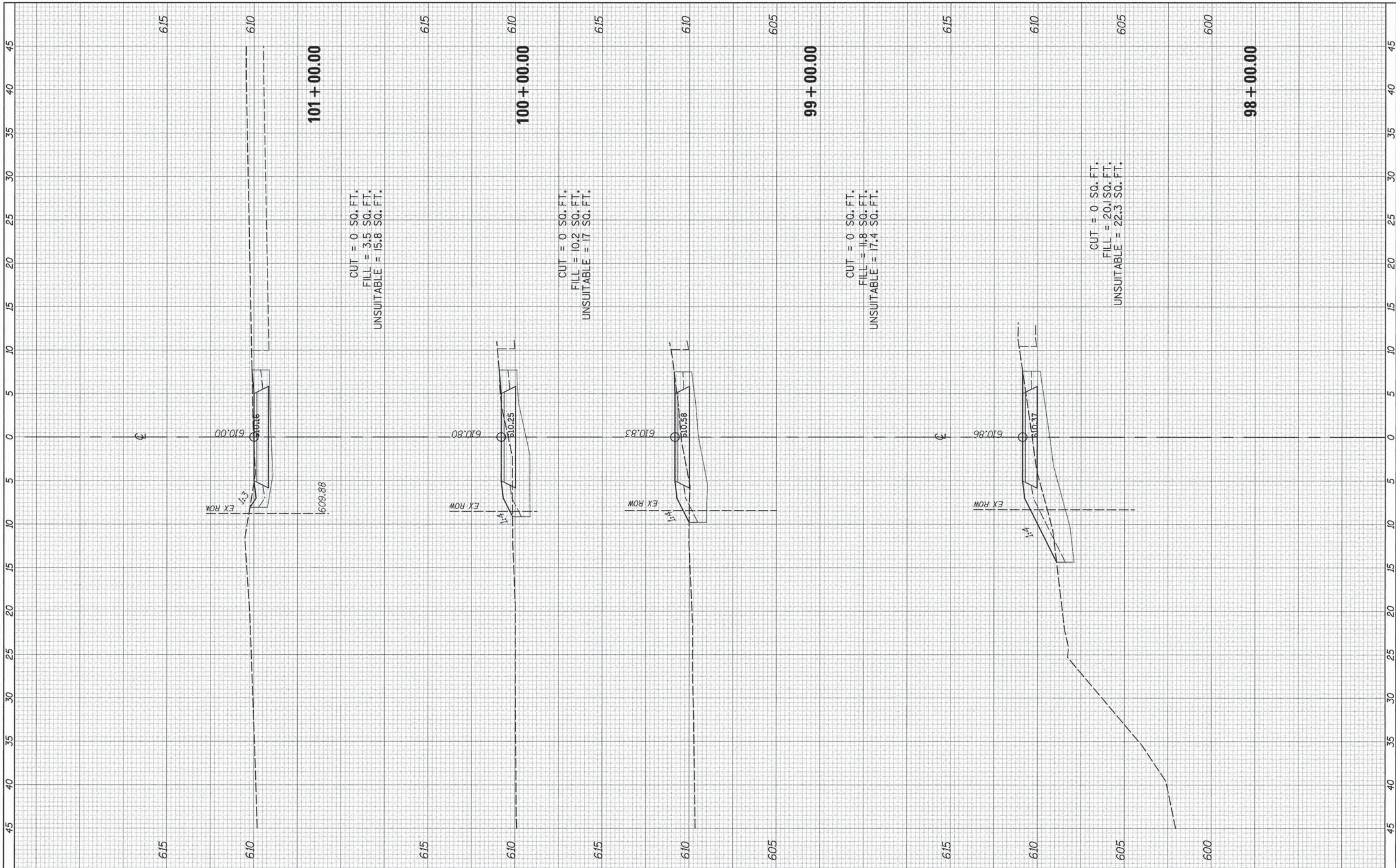


FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH BRANCH BIKE TRAIL EXTENSION CROSS SECTIONS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN -	REVISED -		SCALE:	SHEET 21 OF 37 SHEETS	STA. 93+00.00 TO STA. 97+00.00	08-F3000-21-BT	COOK	98	96	
#MODELNAME#		CHECKED - DDL	REVISED -					CONTRACT NO. 61A86				
		DATE - 10/20/14	REVISED -					ILLINOIS FED. AID PROJECT				

Sheet: northbranch2.dgn 11/20/15 8:44:28 PM

FINAL SURVEY BY DATE
 SURVEYED BY DATE
 NOTE BOOK NO. DATE
 TEMPLATE AREAS CHECKED

ORIGINAL SURVEY BY DATE
 SURVEYED BY DATE
 NOTE BOOK NO. DATE
 TEMPLATE AREAS CHECKED



CUT = 0 SQ. FT.
 FILL = 3.5 SQ. FT.
 UNSUITABLE = 15.8 SQ. FT.

CUT = 0 SQ. FT.
 FILL = 10.2 SQ. FT.
 UNSUITABLE = 17 SQ. FT.

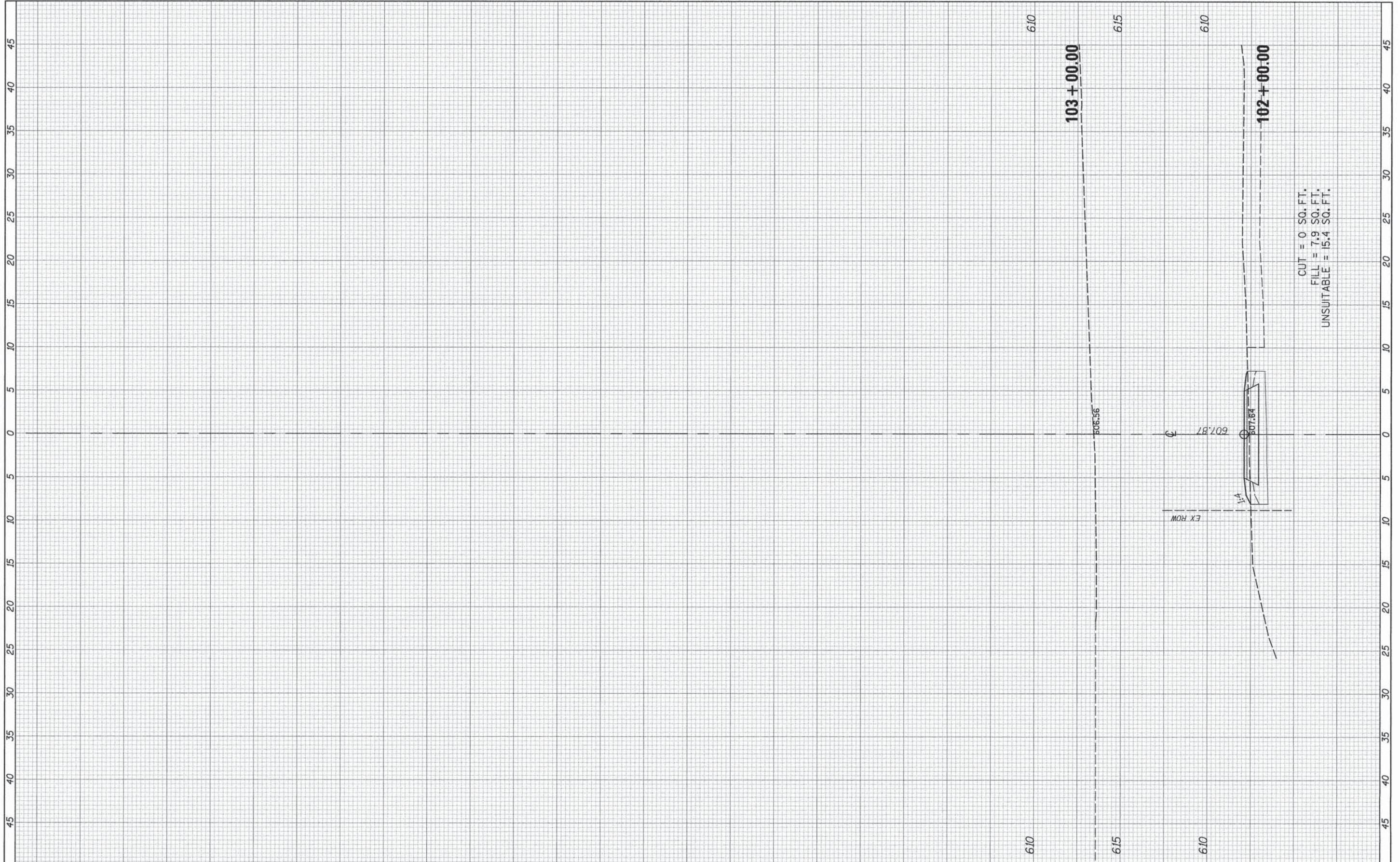
CUT = 0 SQ. FT.
 FILL = 11.8 SQ. FT.
 UNSUITABLE = 17.4 SQ. FT.

CUT = 0 SQ. FT.
 FILL = 20.1 SQ. FT.
 UNSUITABLE = 22.3 SQ. FT.

FILE NAME #	USER NAME #	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH BRANCH BIKE TRAIL EXTENSION CROSS SECTIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL#		DRAWN -	REVISED -			08-F3000-21-BT	COOK	98	97		
#MODELNAME#		CHECKED - DDL	REVISED -			CONTRACT NO. 61A86					
		DATE - 10/20/14	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE:	SHEET 22 OF 37 SHEETS	STA. 98+00.00 TO STA. 101+00.00					

FINAL	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		



FILE NAME *	USER NAME * #USER*	DESIGNED -	REVISED -
#FILEL#		DRAWN -	REVISED -
#MODELNAME*	PLOT SCALE = #SCALE*	CHECKED - DDL	REVISED -
	PLOT DATE = #DATE*	DATE - 10/20/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**NORTH BRANCH BIKE TRAIL EXTENSION
CROSS SECTIONS**

SCALE: SHEET 23 OF 37 SHEETS STA. 102+00.00 TO STA. 106+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	08-F3000-21-BT	COOK	98	98
CONTRACT NO. 61A86			ILLINOIS FED. AID PROJECT	