

SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

F. A. U. ETC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL.	73	1
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-00D1 (673)	

CONTRACT #63440

INDEX OF SHEETS

- 1 COVER SHEET, INDEX OF SHEETS, LOCATION MAP & INDEX OF STATE STANDARDS
- 2-3 SUMMARY OF QUANTITIES
- 4 GENERAL NOTES
- 5 TYPICAL CROSS SECTION & DETAILS
- 6-11 ALIGNMENT PLAN
- 12 PLAN & PROFILE SHEET FOR BIKE PATH AT CULVER PARK
- 13-15 PLAN & PROFILE SHEETS FOR BIKE PATH PARKER RD. TO BELL RD.
- 16 PLAN & PROFILE SHEET FOR BIKE PATH ALONG BELL ROAD
- 17-21 PLAN & PROFILE SHEETS FOR BIKE PATH MUSTANG DR. TO VENETIAN WAY
- 22-24 PLAN & PROFILE SHEETS FOR BIKE PATH PIN OAK DR. TO BEAVER LAKE DR.
- 25 DRAINAGE DETAIL PLAN AND PROFILE
- 26-31 DISTRICT ONE - STANDARD TRAFFIC SIGNAL DESIGN DETAILS
- 32 TRAFFIC SIGNAL INSTALLATION PLAN
- 33 TRAFFIC SIGNAL CABLE PLAN
- 34-39 EROSION CONTROL PLAN
- 40 EROSION CONTROL NOTES & DETAILS
- 41-43 CROSS SECTIONS FOR BIKE PATH AT CULVER PARK
- 44-51 CROSS SECTIONS FOR BIKE PATH PARKER ROAD TO BELL ROAD
- 52-55 CROSS SECTIONS FOR BIKE PATH ALONG BELL ROAD
- 56-66 CROSS SECTIONS FOR BIKE PATH MUSTANG DR. TO VENETIAN WAY
- 67-71 CROSS SECTIONS FOR BIKE PATH PINE OAK DR. TO BEAVER LAKE DR.
- 72-73 IDOT DISTRICT-1 BUREAU OF DESIGN DETAIL STANDARDS

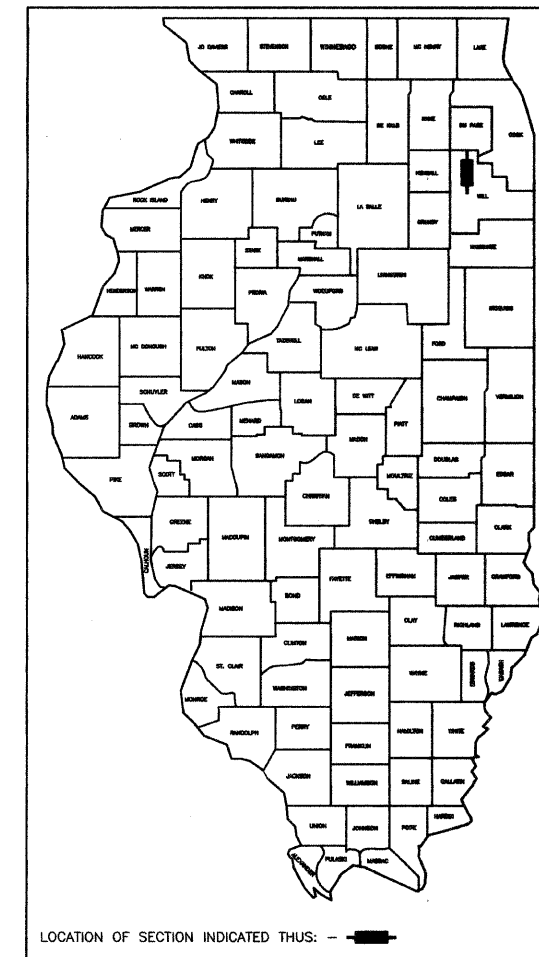
# PLANS FOR PROPOSED HOMER GLEN CMAQ COMMUNITY BIKE TRAIL

PARKER ROAD TO BELL ROAD, WEST SIDE OF BELL ROAD & MUSTANG DRIVE TO VENETIAN WAY  
 FEDERAL PROJECT: CMM-00D1 (673)

SECTION NO.: 06-00008-00-BT

JOB NO.: C-91-270-06

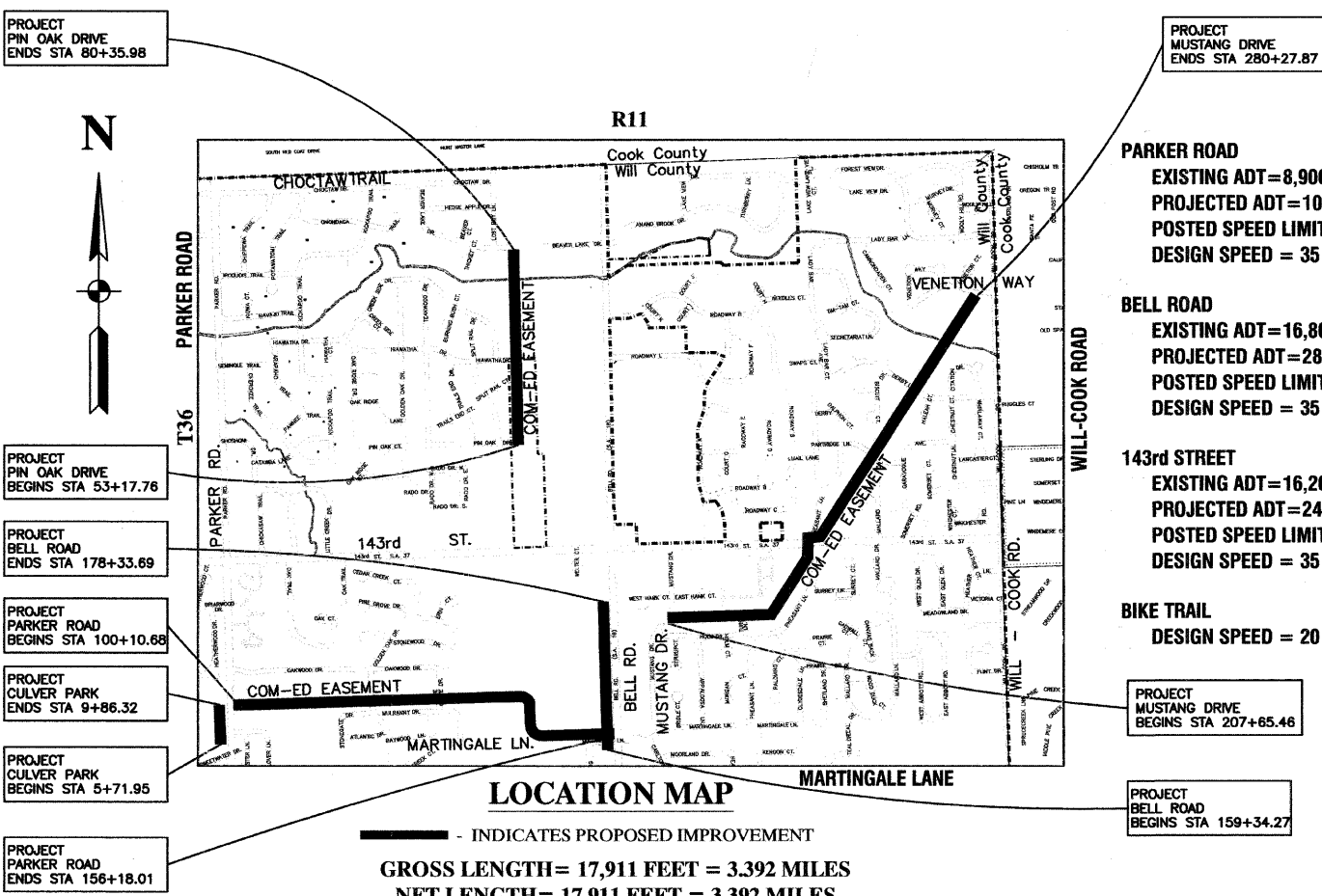
VILLAGE OF HOMER GLEN  
 WILL COUNTY



LOCATION OF SECTION INDICATED THUS:

STATE STANDARDS

- |           |  |
|-----------|--|
| 000001-05 | STANDARD STANDARDS, ABBREVIATIONS AND PATTERNS                 |
| 280001-05 | TEMPORARY EROSION CONTROL SYSTEMS                              |
| 424001-05 | CURB RAMPS FOR SIDEWALK  |
| 542301-02 | PRECAST REINFORCED CONCRETE FLARED END SECTION                 |
| 542311-01 | GRATING FOR CONCRETE FLARED END SECTION                        |
| 542401-01 | METAL END SECTION FOR PIPE CULVERTS                            |
| 602011-01 | CATCH BASIN - TYPE C   |
| 604001-03 | FRAME & LID TYPE 1   |
| 606001-04 | CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB & GUTTER    |
| 635001-01 | DELINEATORS  |
| 635011-02 | REFLECTOR MARKER AND MOUNTING DETAILS                          |
| 665001-02 | WOVEN WIRE FENCE   |
| 701001-02 | OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY                  |
| 701006-03 | OFF-RD OPERATIONS, 2L, 2W, 15' FROM PAVEMENT EDGE              |
| 701301-03 | LANE CLOSURE, 2L2W, SHORT TIME OPERATIONS                      |
| 701801-04 | LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE |
| 701901-01 | TRAFFIC CONTROL DEVICES  |
| 720001-01 | SIGN PANEL MOUNTING DETAILS                                    |
| 720006-02 | SIGN PANEL ERECTION DETAILS                                    |
| 720011-01 | METAL POSTS FOR SIGNS, MARKERS & DELINEATORS                   |



- PARKER ROAD**  
 EXISTING ADT=8,900 (2006)  
 PROJECTED ADT=10,800 (2030)  
 POSTED SPEED LIMIT = 30 MPH  
 DESIGN SPEED = 35 MPH
- BELL ROAD**  
 EXISTING ADT=16,800 (2006)  
 PROJECTED ADT=28,500 (2030)  
 POSTED SPEED LIMIT = 30 MPH  
 DESIGN SPEED = 35 MPH
- 143rd STREET**  
 EXISTING ADT=16,200 (2006)  
 PROJECTED ADT=24,000 (2030)  
 POSTED SPEED LIMIT = 30 MPH  
 DESIGN SPEED = 35 MPH
- BIKE TRAIL**  
 DESIGN SPEED = 20 MPH

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

APPROVED FEBRUARY 5<sup>th</sup> 2010  
 PASSED FEBRUARY 8<sup>th</sup> 2010

RELEASED FOR BID BASED ON LIMITED REVIEW FEBRUARY 8<sup>th</sup> 2010

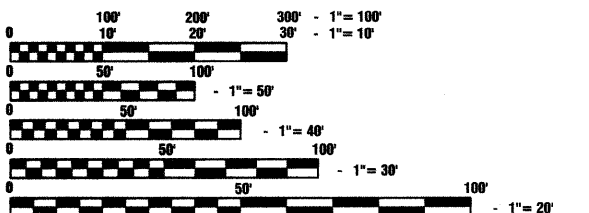
*Director M. O'Keefe*  
 DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PREPARED BY OR UNDER THE DIRECT SUPERVISION OF:  
  
 DATE THIS 2nd DAY OF FEBRUARY, 2010

62-48137 REGISTERED PROFESSIONAL ENGINEER  
 LICENSE EXPIRES: 11/30/11

FIELD ENGINEER: MELCHOR MANGOBA 847-705-4408  
 CONSULTANTS: ROBISON ENGINEERING, LTD. 708-331-6700  
 CONTACT ENGINEER: BRIAN BROWN



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

CONTRACT NO. 63440

LOCATION MAP  
 - INDICATES PROPOSED IMPROVEMENT  
 GROSS LENGTH= 17,911 FEET = 3.392 MILES  
 NET LENGTH= 17,911 FEET = 3.392 MILES

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1800	06-00008-00-ST	WILL	73	2
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (973)	

CONTRACT #63440

SUMMARY OF QUANTITIES					PAVEMENT
S.I.	CODE NO.	PAY ITEM	UNIT	QUAN	CONST. TYPE CODE
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	60	60
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	18	18
	20101100	TREE TRUNK PROTECTION	EACH	19	19
	20200100	EARTH EXCAVATION	CU YD	17665	17665
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	200	200
	20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	200	200
	20800150	TRENCH BACKFILL	CU YD	26	26
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	48581	48581
	21300010	EXPLORATION TRENCH, SPECIAL	FOOT	200	200
	25000312	SEEDING, CLASS 4A	ACRE	9.1	9.1
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	60	60
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	60	60
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	60	60
	25100115	MULCH, METHOD 2	ACRE	9.1	9.1
	25100630	EROSION CONTROL BLANKET	SQ YD	13234	13234
	25200110	SODDING, SALT TOLERANT	SQ YD	4467	4467
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	900	900
	28000305	TEMPORARY DITCH CHECKS	FOOT	544	544
	28000400	PERIMETER EROSION BARRIER	FOOT	16900	16900
	28000500	INLET AND PIPE PROTECTION	EACH	13	13
	28100105	STONE RIPRAP, CLASS A3	SQ YD	338	338
	28100109	STONE RIPRAP, CLASS A5	SQ YD	304	304
	28100111	STONE RIPRAP, CLASS A6	SQ YD	263	263
	28200200	FILTER FABRIC	SQ YD	653	653
	35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	44275	44275
	40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	7825	7825
	40600895	CONSTRUCTING TEST STRIP	EACH	1	1
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	2201	2201
	42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	564	564
	42400800	DETECTABLE WARNINGS	SQ FT	400	400
	44000600	SIDEWALK REMOVAL	SQ FT	1208	1208
	44002300	CURB REMOVAL (PARTIAL)	FOOT	225	225
	48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	83	83
	54001001	BOX CULVERT END SECTION, CULVERT NO.1	EACH	6	6
	54001002	BOX CULVERT END SECTION, CULVERT NO.2	EACH	2	2
	54001003	BOX CULVERT END SECTION, CULVERT NO.3	EACH	2	2
	54001004	BOX CULVERT END SECTION, CULVERT NO.4	EACH	2	2
	54001005	BOX CULVERT END SECTION, CULVERT NO.5	EACH	2	2
	54010602	PRECAST CONCRETE BOX CULVERT 6' X 2'	FOOT	52	52
	54010604	PRECAST CONCRETE BOX CULVERT 6' X 4'	FOOT	140	140
	54010804	PRECAST CONCRETE BOX CULVERT 8' X 4'	FOOT	120	120
	54010806	PRECAST CONCRETE BOX CULVERT 8' X 6'	FOOT	144	144
	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1
	54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	1	1
	54213867	STEEL END SECTIONS 12"	EACH	10	10
	54213870	STEEL END SECTIONS 15"	EACH	4	4
	54213873	STEEL END SECTIONS 18"	EACH	2	2
	54214515	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 30"	EACH	2	2
	54247170	GRATING FOR CONCRETE FLARED END SECTION 36"	EACH	1	1

\* - INDICATES SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION**

**SUMMARY OF QUANTITIES**

SCALE: VERT. N/A  
 HORIZ. N/A  
 DATE FEBRUARY 2, 2010

DRAWN BY JUB  
 CHECKED BY BDB

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00006-00-BF	WILL	73	3
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (673)	

CONTRACT #63440

SUMMARY OF QUANTITIES					PAVEMENT
S.I.	CODE NO.	PAY ITEM	UNIT	QUAN	CONST. TYPE CODE
	54248150	GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND-SIZE 30"	EACH	2	Y047
	542A0241	PIPE CULVERTS, CLASS A, TYPE 1 36"	FOOT	5	
	542A5485	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 30"	FOOT	36	
	542D0217	PIPE CULVERTS, CLASS D, TYPE 1 12"	FOOT	243	
	542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	60	
	542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	56	
	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	47	
	60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	2	
	60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	1	
	60601005	CONCRETE CURB, TYPE B (SPECIAL)	FOOT	14	
	66410300	CHAIN LINK FENCE REMOVAL	FOOT	90	
*	66500105	WOVEN WIRE FENCE, 4'	FOOT	1303	
*	66501300	WOVEN WIRE GATES, 4' X 10' DOUBLE	EACH	2	
	66502300	WOVEN WIRE FENCE REMOVAL	FOOT	705	
	67100100	MOBILIZATION	L SUM	1	
	70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	
	72000100	SIGN PANEL - TYPE 1	SQ FT	178	
	72900100	METAL POST - TYPE A	FOOT	720	
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	636	
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1274	
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	162	
*	81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	35	
*	81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	35	
*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	
*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	677	
*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	713	
*	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	148	
*	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	4	
*	87900200	DRILL EXISTING HANDHOLE	EACH	1	
*	88102810	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED	EACH	4	
*	88800100	PEDESTRIAN PUSH-BUTTON	EACH	4	
*	89501150	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1	
*	89502200	MODIFY EXISTING CONTROLLER	EACH	1	
*	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	184	
	X0300247	REMOVE WOOD POST	EACH	4	
	X0321309	CONCRETE PAD	SQ YD	99	
*	X0324653	REMOVE TRAFFIC SIGNAL POLE FOUNDATION	EACH	1	
	XX008352	PRECAST CONCRETE BOX CULVERT 6' X 2.5'	FOOT	52	
	X0350805	FOLD DOWN BOLLARDS	EACH	18	
*	X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	53	
	XX000372	TEMPORARY AGGREGATE	TON	200	
	XX000503	SPLIT RAIL FENCE	FOOT	1100	
	XX001472	WOOD BOLLARD	EACH	32	
	XX007665	PROPOSED STORM SEWER CONNECTION TO EXISTING CULVERT	EACH	1	
△	Z0076600	TRAINEES	HOUR	500	

△ Y080

\* - INDICATES SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

HOMER GLEN GMAQ COMMUNITY BIKE TRAIL  
AND EAST EXTENSION  
SUMMARY OF QUANTITIES

SCALE: VERT. N/A  
HORIZ. N/A  
DATE FEBRUARY 2, 2010  
DRAWN BY JJB  
CHECKED BY BDB

ROBINSON ENGINEERING, LTD.  
17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473  
(708) 381-8700 FAX (708) 381-3888  
ILLINOIS DESIGN FIRM REGISTRATION NO. 15607128 06231-QUAN-01-P2

F. A. U. R. E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	4
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (673)	

CONTRACT #63440

**GENERAL NOTES**

- ALL BIKE PATH CONSTRUCTION SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2007 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND ALL AMENDMENTS THERETO.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. THE ENGINEER DOES NOT WARRANT THE LOCATION OF ANY EXISTING UTILITIES SHOWN ON THE PLAN. THE CONTRACTOR SHALL CALL J.U.L.I.E. AT 800-892-0123 AND THE VILLAGE OF HOMER GLEN FOR UTILITY LOCATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE NATURE AND STATUS OF ALL UTILITY RELOCATION WORK PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ENSURE THAT CONSTRUCTION OPERATIONS DO NOT INTERFERE WITH UTILITY FACILITIES AND RELOCATION WORK. THE SCHEDULE SHOULD REFLECT CONSTRUCTION SEQUENCING, WHICH COORDINATES WITH ALL UTILITY RELOCATION WORK. THE CONTRACTOR SHALL BE REQUIRED TO ADJUST THE ORDER OF ITS WORK FROM TIME TO TIME, TO COORDINATE SAME WITH UTILITY RELOCATION WORK, AND SHALL PREPARE REVISED SCHEDULE (S) IN COMPLIANCE THEREWITH AS DIRECTED BY THE OWNER. THE OWNER AND THE ENGINEER SHALL BE NOTIFIED IN WRITING BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY OPERATION REQUIRED COOPERATION WITH OTHERS. ALL AGENCIES, UNLESS OTHERWISE NOTED, WILL BE NOTIFIED IN WRITING BY THE CONTRACTOR TEN (10) DAYS PRIOR TO THE START OF ANY SUCH OPERATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM OR ESTABLISH THE EXISTENCE OF ALL UTILITY FACILITIES AND THEIR EXACT LOCATIONS, WHETHER CONTAINED IN THE DATA SUBMITTED BY THESE AGENCIES OR NOT, AND TO SAFELY SCHEDULE ALL UTILITY RELOCATIONS.
- ALL CONTRACTORS SHALL KEEP ACCESS AVAILABLE AT ALL TIMES FOR ALL TYPES OF TRAFFIC AS DIRECTED BY THE OWNER AND THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED. ANY STAKES DESTROYED OR DISTURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.
- REMOVAL OF SPECIFIED ITEMS, INCLUDING BUT NOT LIMITED TO, PAVEMENT, SIDEWALK, CURB, CURB AND GUTTER, CULVERTS, ETC. SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT THE CONTRACTORS OWN EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR ANY PERMITS REQUIRED FOR SUCH DISPOSAL. THE REMOVAL SHALL BE ACCOMPLISHED BY MEANS OF A SAW CUT JOINT, AT THE DIRECTION OF THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS.
- THE CONTRACTORS SHALL PLAN THEIR WORK BASED ON THEIR OWN BORINGS, EXPLORATIONS AND OBSERVATIONS TO DETERMINE SOIL CONDITIONS AT THE LOCATION OF THE PROPOSED WORK.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOB PER OSHA REGULATIONS.
- IT SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY TO PROVIDE PROPER BARRICADING, WARNING DEVICES AND THE SAFE MANAGEMENT OF TRAFFIC WITHIN THE AREA OF CONSTRUCTION. ALL SUCH DEVICES AND THEIR INSTALLATION SHALL CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND THE "ILLINOIS SUPPLEMENT TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION, AND IN ACCORDANCE WITH THE VILLAGE OF HOMER GLEN ORDINANCES.
- THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIALS, TRASH, OIL AND GREASE RESIDUE, MACHINERY, TOOLS AND OTHER MISCELLANEOUS ITEMS WHICH WERE NOT PRESENT PRIOR TO PROJECT COMMENCEMENT AT NO ADDITIONAL EXPENSE TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY AND ALL PERMITS NECESSARY FOR THE HAULING AND DISPOSAL REQUIRED FOR CLEAN-UP AS DIRECTED BY THE ENGINEER OR OWNER. BURNING ON THE SITE IS NOT PERMITTED.
- NO UNDERGROUND WORK SHALL BE COVERED UNTIL IT HAS BEEN APPROVED BY THE ENGINEER AND THE VILLAGE OF HOMER GLEN. APPROVAL TO PROCEED MUST BE OBTAINED FROM THE VILLAGE OF HOMER GLEN PRIOR TO INSTALLING PAVEMENT BASE, BINDER, SURFACE AND PRIOR TO PLACING ANY CONCRETE AFTER FORMS HAVE BEEN SET.
- AT THE CLOSE OF EACH WORKING DAY AND AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FORM DIRT AND DEBRIS.
- TREES NOT MARKED FOR REMOVAL SHALL BE CONSIDERED AS DESIGNATED TO BE SAVED AND SHALL BE PROTECTED UNDER THE PROVISIONS OF ARTICLE 201.05 OF THE STANDARD SPECIFICATIONS.
- LIMB PRUNING SHALL BE PERFORMED UNDER THE SUPERVISION OF AN APPROVED LANDSCAPE ARCHITECT AND SHALL BE UNDERTAKEN IN A TIMELY FASHION SO AS NOT TO INTERFERE WITH CONSTRUCTION. ALL LIMBS, BRANCHES, AND OTHER DEBRIS RESULTING FROM THIS WORK SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT HIS OWN EXPENSE. ALL CUTS OVER ONE (1) INCH DIAMETER SHALL BE MADE FLUSH WITH THE NEXT LARGE BRANCH. WOUNDS OVER ONE (1) INCH DIAMETER SHALL BE PAINTED WITH AN APPROVED TREE PAINT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS.
- IF SOFT, SPONGY OR OTHER UNSUITABLE SOILS WITH UNCONFINED COMPRESSIVE STRENGTH LESS THAN 0.5 TSF ARE ENCOUNTERED AT THE BOTTOM OF THE TRENCH, ALL SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH WELL COMPACTED CRUSHED LIMESTONE BEDDING MATERIAL. IF ROCK IS ENCOUNTERED, IT SHALL BE REMOVED TO AT LEAST SIX (6) INCHES BELOW THE BOTTOM OF THE PIPE TO ALLOW PROPER THICKNESS OF BEDDING ANY UNDERCUTS OF TWO (2) FEET OR LESS SHALL BE INCLUDED IN THE ITEMS OF THE WORK BEING PERFORMED. DEPTHS GREATER THAN TWO (2) FEET SHALL BE PAID FOR ON A UNIT PRICE.

17. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
BITUMINOUS MAT PRIME COAT	0.08 0.375	GAL / SQ YD OR GAL / SQ YD
AGGREGATE PRIME COAT	0.002	TONS / SQ YD
BITUMINOUS RESURFACING	112	LBS / SQ YD / IN
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
CALCIUM CHLORIDE	2	LB / SQ YD / APPLICATION
TEMPORARY DITCH CHECKS	9 5	BALES OR TONS AGGREGATE

- THE TRENCHES FOR PIPE INSTALLATION SHALL BE KEPT DRY AT ALL TIMES DURING PIPE PLACEMENT. APPROPRIATE FACILITIES TO MAINTAIN THE DRY TRENCH SHALL BE PROVIDED BY THE CONTRACTOR AND THE COST OF SUCH SHALL BE INCIDENTAL TO THE UNIT PRICE BID AND APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR DEWATERING DURING CONSTRUCTION UNLESS APPROVED IN WRITING BY THE OWNER.
- TRENCH BACKFILL WILL BE REQUIRED TO THE FULL DEPTH ABOVE SEWERS AND WATER MAIN WITHIN TWO (2) FEET OF PROPOSED OR EXISTING PAVEMENT/BIKE TRAIL.
- THE PAVEMENT SHALL BE KEPT FREE OF MUD AND DEBRIS AT ALL TIMES.
- CONSTRUCTION MATERIALS AND/OR EQUIPMENT MAY NOT BE STORED IN THE RIGHT-OF-WAY WITHOUT THE APPROVAL OF THE VILLAGE OF HOMER GLEN.

**EARTHWORK NOTES**

- GENERAL
  - IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE SOIL AND GROUNDWATER CONDITIONS AT THE SITE.
  - ANY QUANTITIES IN THE BID PROPOSAL ARE INTENDED AS A GUIDE FOR THE CONTRACTORS USE IN DETERMINING THE SCOPE OF THE COMPLETED PROJECT. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRAISE HIMSELF OF ALL SITE CONDITIONS.
  - THE CONTRACTOR WILL NOTE THAT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE FINISHED GRADE AND SUBGRADE ELEVATIONS (AS NOTED) AND THAT PAVEMENT THICKNESS, TOPSOIL, ETC. MUST BE ACCOUNTED FOR.
  - THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION, AND PREVENT STORMWATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS. THE FAILURE TO PROVIDE PROPER DRAINAGE WILL NEGATE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION AND TRAFFIC.
  - PLANS FOR THE SITE DEWATERING, IF EMPLOYED, SHALL BE SUBMITTED AND APPROVED PRIOR TO IMPLEMENTATION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR DEWATERING DURING CONSTRUCTION.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE "SOIL EROSION AND SEDIMENTATION CONTROL MEASURES". THE INITIAL ESTABLISHMENT OF EROSION CONTROL PROCEDURES AND THE PLACEMENT OF SILT AND FILTER FENCING, ETC. TO PROTECT ADJACENT PROPERTY, WETLANDS, ETC. SHALL OCCUR BEFORE GRADING BEGINS.
  - ALL STORM INLETS AND FLARED END SECTIONS SHALL BE PROTECTED BY SILTBARRIER (FENCE OR BALES). PLACEMENTS AND MAINTENANCE OR SILT BARRIER SHALL BE AS DIRECTED BY THE ENGINEER, BASED ON ACTUAL GRADING. GRADE THE AREA WITHIN FOUR (4) FEET AROUND STRUCTURES ONE (1) FOOT BELOW RIM TO SERVE AS A SEDIMENTATION BASIN DURING CONSTRUCTION.
  - FINAL LOCATION OF DITCH CHECKS AND SILT FENCE SHALL BE ADJUSTED BASED ON ACTUAL SITE GRADING CONDITIONS. ADDITIONAL MEASURES SHALL BE ADDED AS DIRECTED BY THE ENGINEER.
  - ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESEEDDED AND MULCHED AS SOON AS PRACTICAL. SLOPES GREATER THAN 8% SHALL BE TREATED WITH EXCELSIOR BLANKET.

**STORM SEWER NOTES**

- STORM SEWER PIPE: ALL STORM SEWER PIPE SHALL BE RCP, UNLESS OTHERWISE NOTED ON THE PLANS, IN ACCORDANCE WITH THE FOLLOWING:  
RCP: REINFORCED CONCRETE PIPE (ASTM C-76) W/ GASKETED JOINTS TYPE 1, CLASS III PER SSRBC SECTION 505. USE CLASS IV PIPE FOR 12" TO 21". FOR ALL OTHER SIZES USE THE CHART CONTAINED IN SECTION 550 FOR TYPE 1 OR TYPE 2 CONSTRUCTION.
- "BAND SEAL" OR SIMILAR COUPLINGS SHALL BE USED WHEN JOINING SEWER PIPES OF DISSIMILAR MATERIALS.
- BEDDING: ALL STORM SEWERS SHALL BE INSTALLED ON A TYPE A GRANULAR BEDDING, 1/4" TO 1" IN SIZE (CA-7) WITH A MINIMUM THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE BUT NOT LESS THAN 4". BLOCKING OF ANY KIND FOR GRADE IS NOT PERMITTED. THE BEDDING MATERIALS SHALL BE COMPACTED TO 90% OF MODIFIED PROCTOR DENSITY. BEDDING SHALL EXTEND TO THE SPRINGLINE OF THE PIPE.
- COVER: THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE (1') FOOT OF COVER OVER THE TOP OF SHALLOW PIPES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL MOUND OVER ANY PIPES WHICH HAVE LESS THAN ONE (1') FOOT OF COVER DURING CONSTRUCTION UNTIL THE AREA IS FINAL GRADED OR PAVED.
- ALL TRENCHES BENEATH PROPOSED OR EXISTING UTILITIES, PAVEMENTS, ROADWAYS, SIDEWALKS, AND FOR A DISTANCE OF TWO (2') FEET ON EITHER SIDE OF SAME, AND/OR WHERE SHOWN ON THE PLANS, SHALL BE BACKFILLED WITH SELECT GRANULAR BACKFILL, CA-7, AND THOROUGHLY MECHANICALLY COMPACTED IN 9" THICK (LOOSE MEASUREMENT) LAYERS. JETTING WITH WATER IS NOT PERMITTED. TRENCH BACKFILL SHALL BE USED ON THE ENTIRE LENGTH OF THE MAIN DRAIN. TRENCH BACKFILL SHALL BE MEASURED ACCORDING TO SECTION 208.03 OF THE STANDARD SPECIFICATIONS.
- THE TOP OF ALL STRUCTURES SHALL BE FLUSH WITH THE ADJACENT SURFACE OR AT THE INDICATED ELEVATIONS SHOWN ON THE PLANS.
- FRAME ELEVATIONS ARE GIVEN ONLY TO ASSIST IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE COST.
- CARE SHOULD BE TAKEN DURING CONSTRUCTION TO INSURE THAT ALL DRAIN SYSTEMS ARE RE-ESTABLISHED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN DRAIN TILE SYSTEMS ARE ENCOUNTERED OTHER THAN THOSE SHOWN IN THE PLANS FOR PROPER INSTRUCTION AND DISPOSITION.
- CHERT AGGREGATE SHALL NOT BE ALLOWED IN THE MANUFACTURING OF STORM SEWERS, END SECTIONS OR PRECAST DRAINAGE STRUCTURES.

REVISIONS	
NAME	DATE

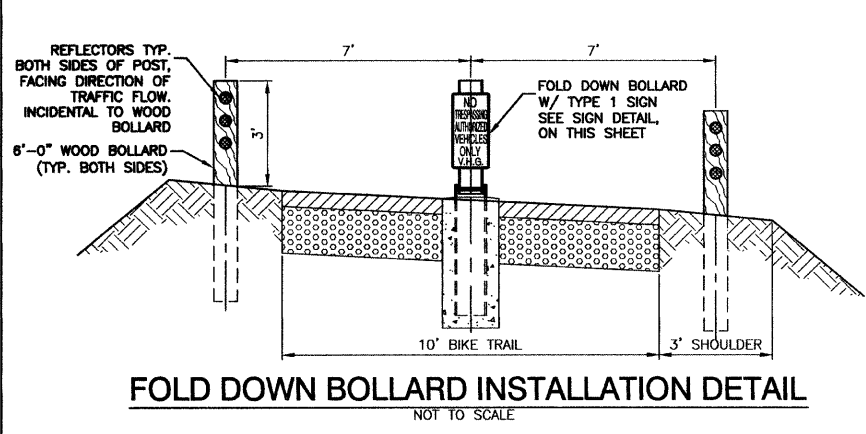
ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL  
AND EAST EXTENSION  
GENERAL NOTES**

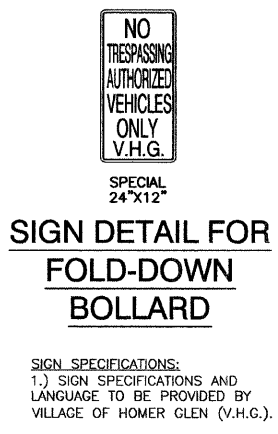
SCALE: VERT. N/A  
HORIZ. 1=1  
DATE: FEBRUARY 2, 2010  
DRAWN BY: JJB  
CHECKED BY: BDB

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	5
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (873)	

CONTRACT #63440

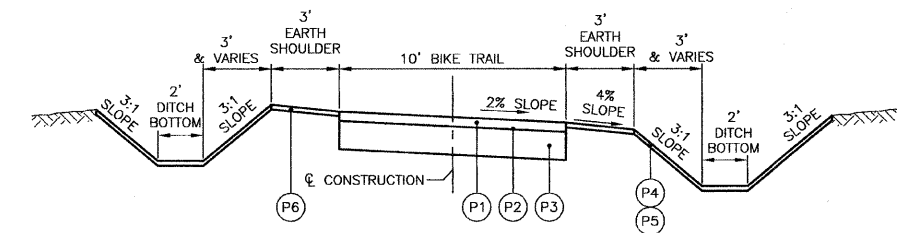


**FOLD DOWN BOLLARD INSTALLATION DETAIL**  
NOT TO SCALE

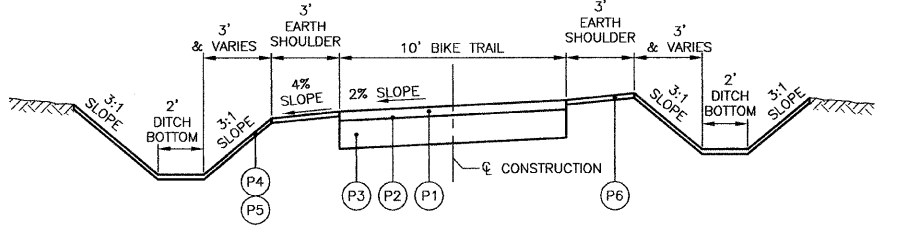


**SIGN DETAIL FOR FOLD-DOWN BOLLARD**

SIGN SPECIFICATIONS:  
1.) SIGN SPECIFICATIONS AND LANGUAGE TO BE PROVIDED BY VILLAGE OF HOMER GLEN (V.H.G.).



**LEFT TO RIGHT SLOPE:**  
Sta. 53+15 to Sta. 80+50  
Sta. 9+53.83 to Sta. 9+87.53  
Sta. 100+12.14 to Sta. 119+29.23  
Sta. 128+61 to Sta. 145+00  
Sta. 160+28.67 to Sta. 178+34  
Sta. 207+67.18 to Sta. 211+17  
Sta. 234+40 to Sta. 256+00  
Sta. 271+50 to Sta. 280+22.21



**RIGHT TO LEFT SLOPE:**  
Sta. 95+73 to Sta. 99+53.83  
Sta. 119+29.33 to Sta. 128+61  
Sta. 145+00 to Sta. 156+18.38  
Sta. 211+17 to Sta. 234+40  
Sta. 256+00 to Sta. 271+50

**BIKE TRAIL TYPICAL SECTIONS**

NOT TO SCALE

**LEGEND**

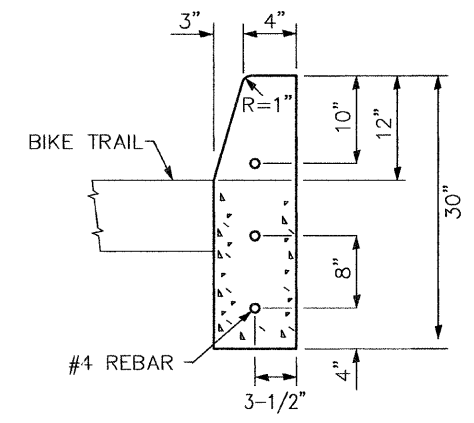
- (P1) HMA SURFACE COURSE, MIX "C", N50, 2"
- (P2) BITUMINOUS MATERIAL - PRIME COAT
- (P3) AGGREGATE BASE COURSE, 8"
- (P4) FURNISHING AND PLACING TOPSOIL, 4"
- (P5) SEEDING, CLASS 2A
- (P6) SODDING, (SALT TOLERANT) - SEE PLANS FOR LOCATION

**EARTHWORK QUANTITIES**

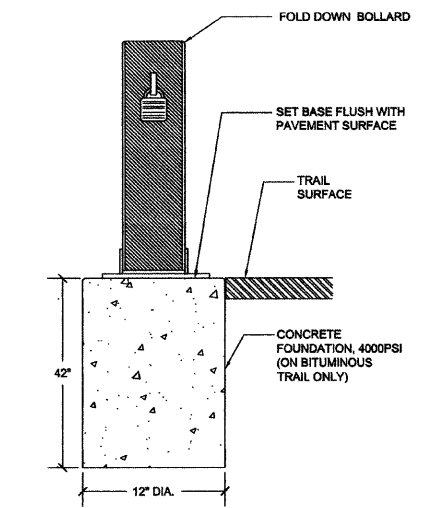
TOTAL CUT . . . . .	= 17,665 CY
TOTAL TOPSOIL . . . . .	= 9,508 CY
TOTAL AVAILABLE CUT TO FILL . . . . .	= 8,157 CY
TOTAL STRUCTURAL FILL . . . . .	= 6,652 CY
TOTAL NON-STRUCTURAL FILL . . . . .	= 8,523 CY

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL 9.5mm), 2"	4% @ 50 Gyr.

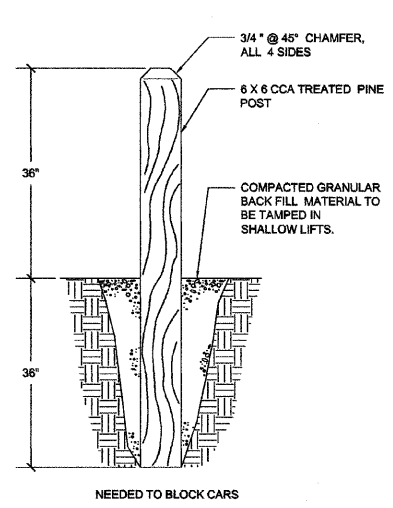
- THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD./IN.
- THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.



**CONCRETE CURB, TYPE B (SPECIAL)**  
NOT TO SCALE



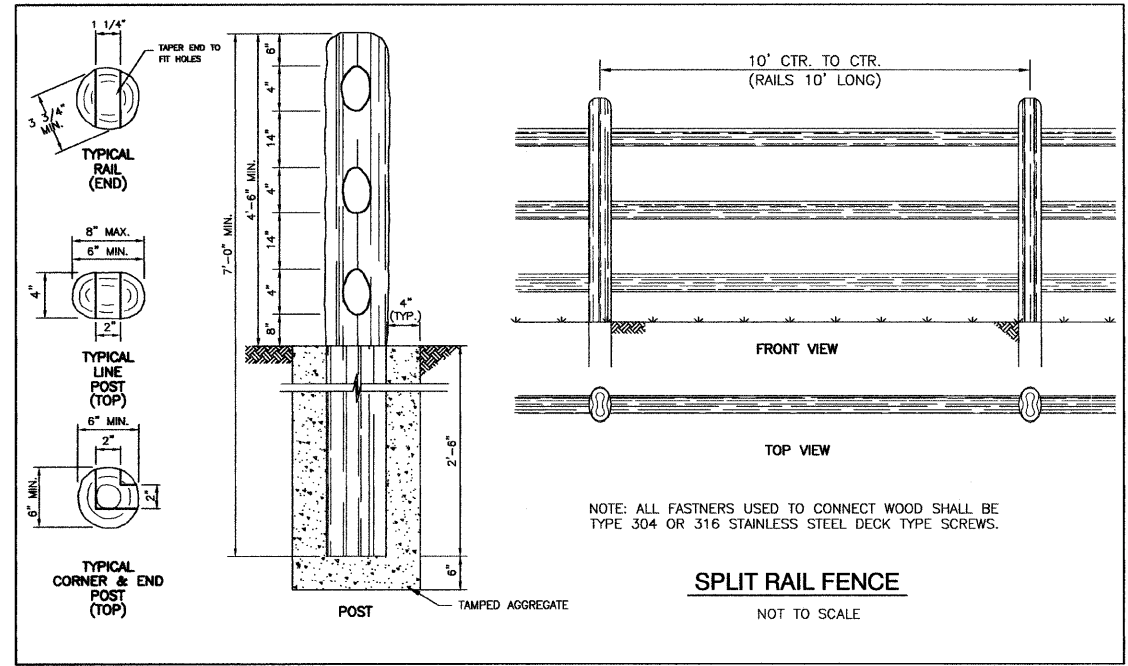
**FOLD DOWN BOLLARD**  
NOT TO SCALE



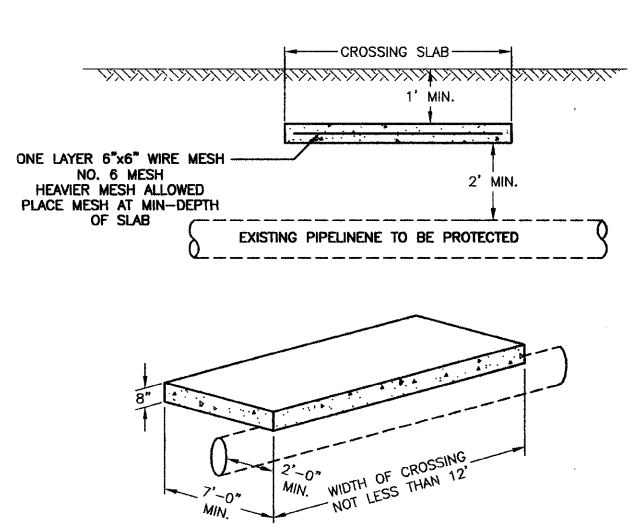
**WOOD BOLLARD**  
NOT TO SCALE

**BOLLARDS**

AS REQUIRED BY FPDWC IN ACCORDANCE WITH FPDWC STANDARDS.



**SPLIT RAIL FENCE**  
NOT TO SCALE



- NOTES:
- CONCRETE SLAB TO BE A MINIMUM OF 2 FEET ABOVE PIPE, 7' WIDE, 8" IN DEPTH, AND A LENGTH OF EQUAL TO CROSSING WIDTH.
  - CAST CONCRETE SLAB A MINIMUM OF 7 DAYS IN ADVANCE OF CONSTRUCTION WITH 3000 PSI CONCRETE.
  - CONCRETE MAY BE EARTH FORMED.
  - PROVIDE TEMPORARY FENCING FOR INDICATING CROSSING LOCATION.
  - PREVENT CROSSING OF PIPELINE AT ALL OTHER LOCATIONS.
  - MAXIMUM LOADING: 15,000 LB. WHEEL LOAD.

**CONCRETE PAD PIPELINE PROTECTION DETAIL**

NOT TO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAO COMMUNITY BIKE TRAIL AND EAST EXTENSION TYPICAL CROSS SECTION & CONSTRUCTION DETAILS**

SCALE: VERT. N/A  
HORIZ. 1=1

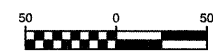
DATE: FEBRUARY 2, 2010

DRAWN BY: JJB  
CHECKED BY: BDB

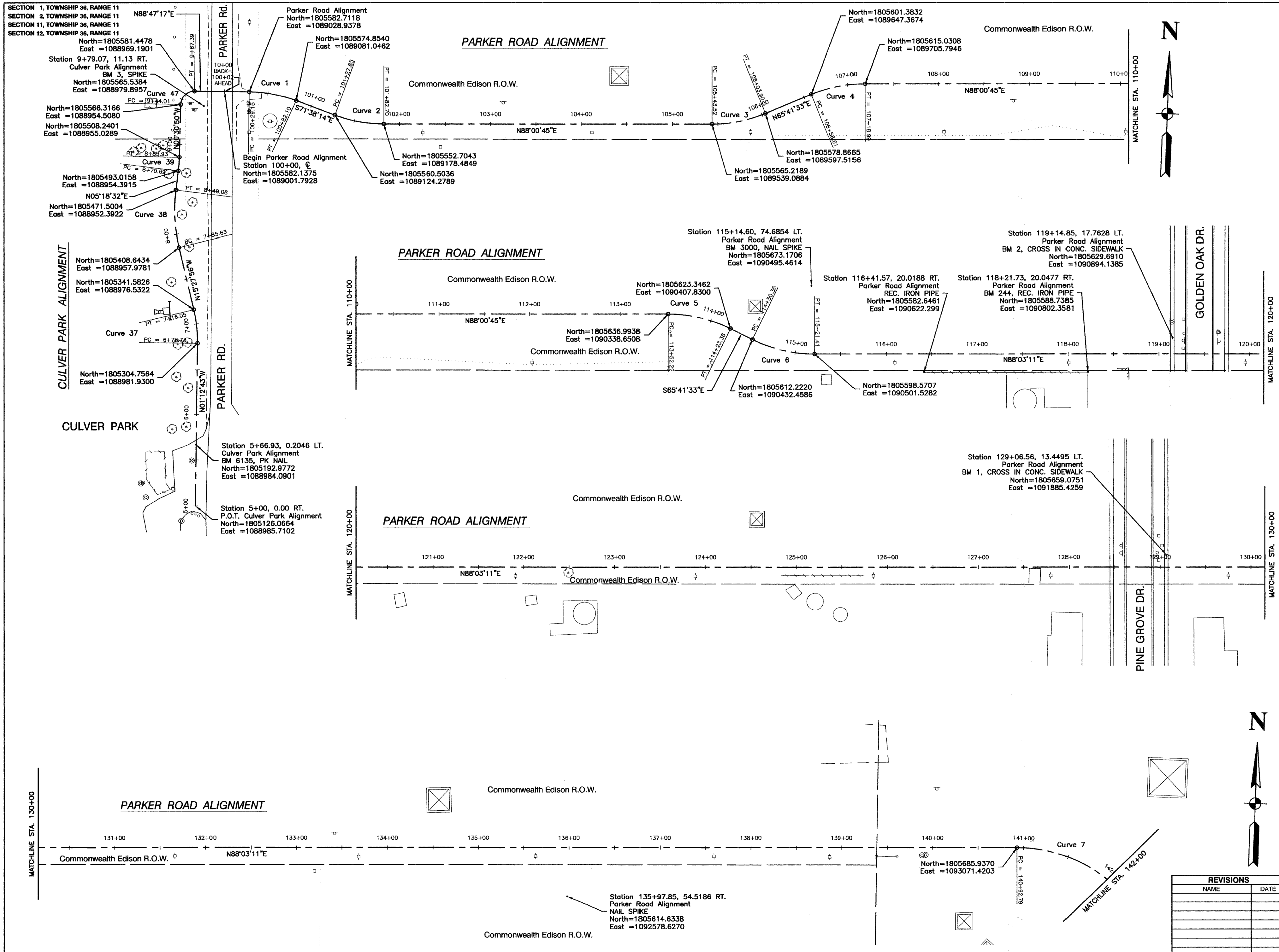
SECTION 1, TOWNSHIP 36, RANGE 11  
SECTION 2, TOWNSHIP 36, RANGE 11  
SECTION 11, TOWNSHIP 36, RANGE 11  
SECTION 12, TOWNSHIP 36, RANGE 11

F. A. U. MILE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	6
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	CM-0001 (673)

CONTRACT #63440



SCALE: 1"=50'



<b>CURVE 37</b> PI= STA. 6+97.48 Δ = 14°15'13" D = 38°11'50" R = 150.00' T = 18.75' L = 37.32' E = 1.17'	<b>CURVE 38</b> PI= STA. 8+17.71 Δ = 20°46'28" D = 32°44'26" R = 175.00' T = 32.08' L = 63.45' E = 2.92'	<b>CURVE 39</b> PI= STA. 8+78.32 Δ = 05°49'22" D = 38°11'50" R = 150.00' T = 7.63' L = 15.42' E = 0.19'	<b>CURVE 47</b> PI= STA. 9+58.83 Δ = 89°18'07" D = 21°58'19" R = 155.00' T = 14.82' L = 23.38' E = 6.09'	<b>CURVE 3</b> PI= STA. 105+74.10 Δ = 22°19'12" D = 36°57'54" R = 155.00' T = 30.58' L = 60.38' E = 2.99'	<b>CURVE 4</b> PI= STA. 106+89.19 Δ = 22°19'12" D = 36°57'54" R = 155.00' T = 30.58' L = 60.38' E = 2.99'	<b>CURVE 5</b> PI= STA. 113+88.43 Δ = 28°17'42" D = 36°57'54" R = 155.00' T = 36.21' L = 71.14' E = 4.17'	<b>CURVE 6</b> PI= STA. 114+86.53 Δ = 28°15'18" D = 36°57'54" R = 155.00' T = 36.15' L = 71.03' E = 4.16'	<b>CURVE 7</b> PI= STA. 142+47.59 Δ = 89°55'40" D = 36°57'54" R = 155.00' T = 154.80' L = 243.28' E = 64.06'
---	---	--	---	--	--	--	--	---

**ALIGNMENT DATUM:**  
1. COORDINATES: ILLINOIS STATE PLANE EASTERN ZONE  
2. ELEVATIONS: FEMA (NGVD '29)

REVISIONS	
NAME	DATE

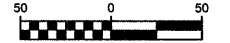
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION ALIGNMENT PLAN**  
Culver Park & Parker Road to Bell Road

SCALE: VERT. N/A  
HORIZ. 1"=50'  
DATE: FEBRUARY 2, 2010  
DRAWN BY: JJB  
CHECKED BY: BDB

SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

P. A. U. SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	7
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (673)	

CONTRACT #63440



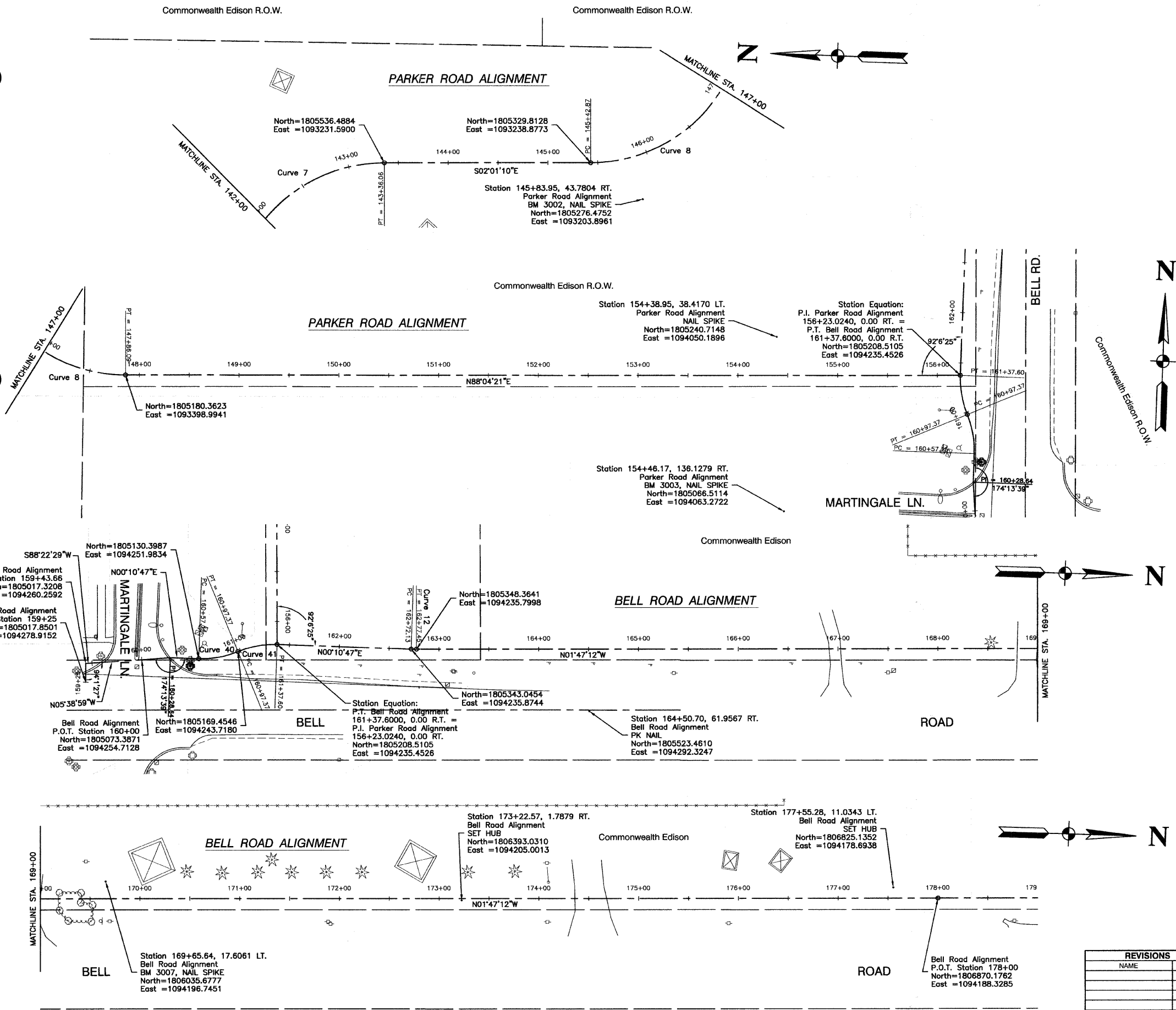
SCALE: 1" = 50'

From:  
PARKER ROAD

From:  
PARKER ROAD

Along:  
BELL ROAD

Along:  
BELL ROAD



**CURVE 7**  
 PI= STA. 142+47.59  
 $\Delta = 89^{\circ}55'40''$   
 $D = 36^{\circ}57'54''$   
 $R = 155.00'$   
 $T = 154.80'$   
 $L = 243.28'$   
 $E = 64.06'$

**CURVE 8**  
 PI= STA. 146+97.62  
 $\Delta = 89^{\circ}54'29''$   
 $D = 36^{\circ}57'54''$   
 $R = 155.00'$   
 $T = 154.75'$   
 $L = 243.22'$   
 $E = 64.03'$

**CURVE 40**  
 PI= STA. 160+77.57  
 $\Delta = 24^{\circ}15'27''$   
 $D = 60^{\circ}18'41''$   
 $R = 95.00'$   
 $T = 20.42'$   
 $L = 40.22'$   
 $E = 2.17'$

**CURVE 41**  
 PI= STA. 161+17.79  
 $\Delta = 24^{\circ}15'27''$   
 $D = 60^{\circ}18'41''$   
 $R = 95.00'$   
 $T = 20.42'$   
 $L = 40.22'$   
 $E = 2.17'$

**CURVE 12**  
 PI= STA. 162+74.79  
 $\Delta = 1^{\circ}57'59''$   
 $D = 36^{\circ}57'54''$   
 $R = 155.00'$   
 $T = 2.86'$   
 $L = 5.32'$   
 $E = 0.02'$

**ALIGNMENT DATUM:**  
 1. COORDINATES: ILLINOIS STATE PLANE EASTERN ZONE  
 2. ELEVATIONS: FEMA (NGVD '29)

REVISIONS	
NAME	DATE

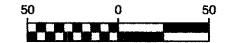
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION ALIGNMENT PLAN**  
 Culver Park & Parker Road to Bell Road

SCALE: VERT. N/A  
 HORIZ. 1" = 50'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

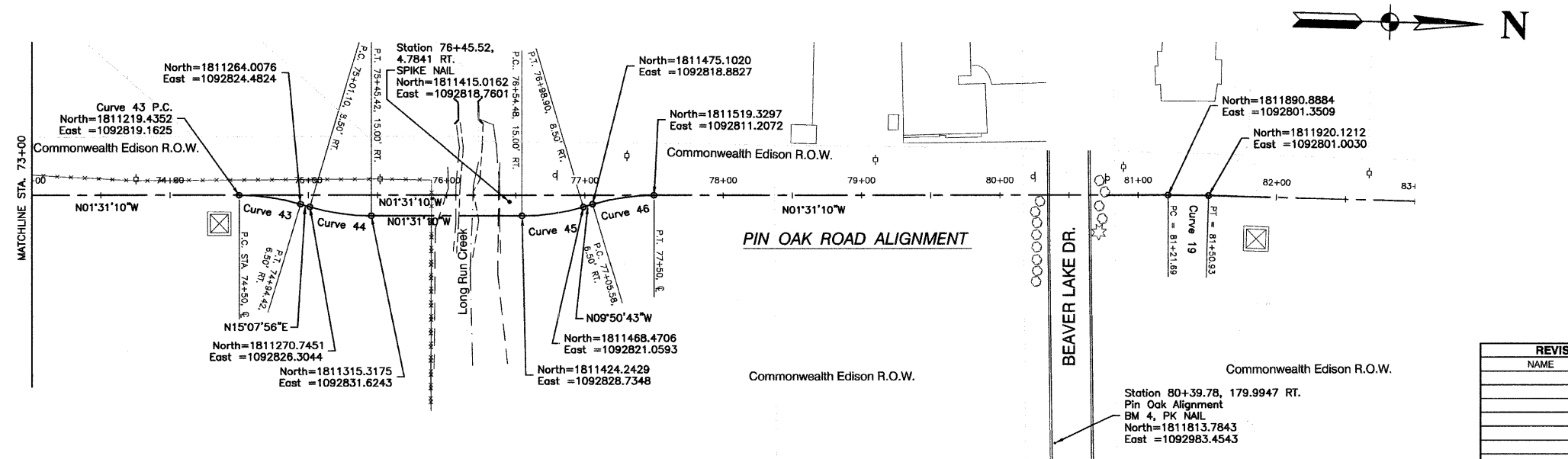
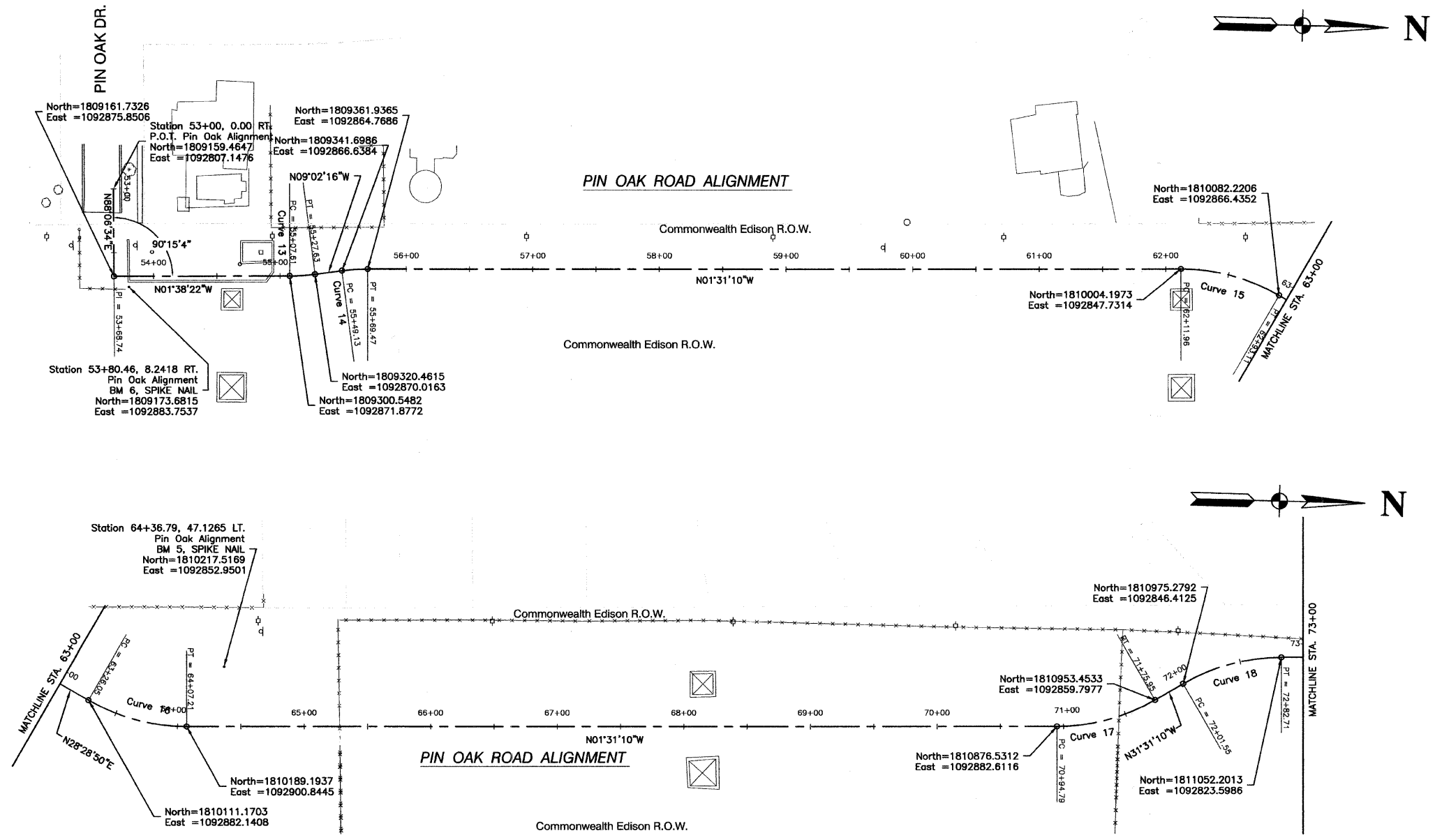
SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

F. A. L. REC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	8
STA.	TD STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (673)	

CONTRACT #63440



SCALE: 1"=50'



<b>CURVE 13</b> PI= STA. 55+17.63 Δ = 07°23'53" D = 36°57'54" R = 155.00' T = 10.02' L = 20.01' E = 0.32'	<b>CURVE 43</b> PI= STA. SEE PLAN Δ = 16°39'06" D = 36°57'54" R = 155.00' T = 22.68' L = 45.05' E = 1.65'
<b>CURVE 14</b> PI= STA. 55+59.31 Δ = 07°31'05" D = 36°57'54" R = 155.00' T = 10.18' L = 20.34' E = 0.33'	<b>CURVE 44</b> PI= STA. SEE PLANS Δ = 16°39'06" D = 36°57'54" R = 155.00' T = 22.68' L = 45.05' E = 1.65'
<b>CURVE 15</b> PI= STA. 62+53.49 Δ = 30°00'01" D = 36°57'55" R = 155.00' T = 41.53' L = 81.16' E = 5.47'	<b>CURVE 45</b> PI= STA. SEE PLANS Δ = 16°39'06" D = 36°57'54" R = 155.00' T = 22.68' L = 45.05' E = 1.65'
<b>CURVE 16</b> PI= STA. 63+67.58 Δ = 30°00'00" D = 36°57'54" R = 155.00' T = 41.53' L = 81.16' E = 5.47'	<b>CURVE 46</b> PI= STA. SEE PLANS Δ = 16°39'06" D = 36°57'54" R = 155.00' T = 22.68' L = 45.05' E = 1.65'
<b>CURVE 17</b> PI= STA. 71+36.32 Δ = 30°00'00" D = 36°57'54" R = 155.00' T = 41.53' L = 81.16' E = 5.47'	<b>CURVE 19</b> PI= STA. 81+36.31 Δ = 1°40'30" D = 05°43'46" R = 1000.00' T = 14.62' L = 29.24' E = 0.11'
<b>CURVE 18</b> PI= STA. 72+43.08 Δ = 30°00'00" D = 36°57'54" R = 155.00' T = 41.53' L = 81.16' E = 5.47'	

**ALIGNMENT DATUM:**  
 1. COORDINATES: ILLINOIS STATE PLANE EASTERN ZONE  
 2. ELEVATIONS: FEMA (NGVD '29)

REVISIONS	
NAME	DATE

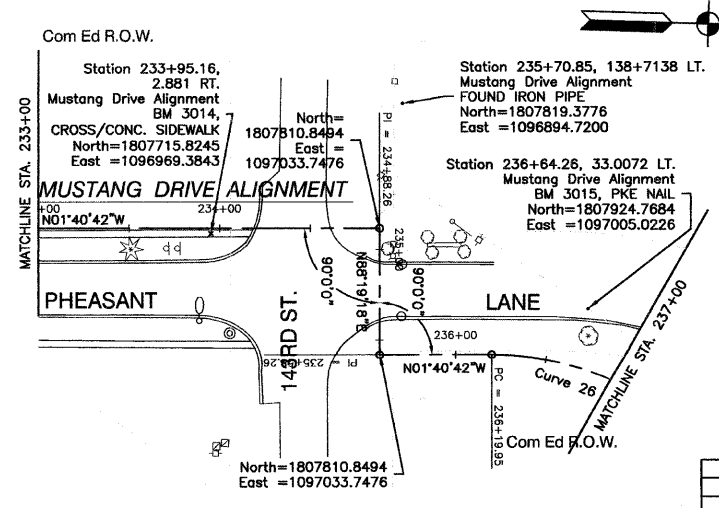
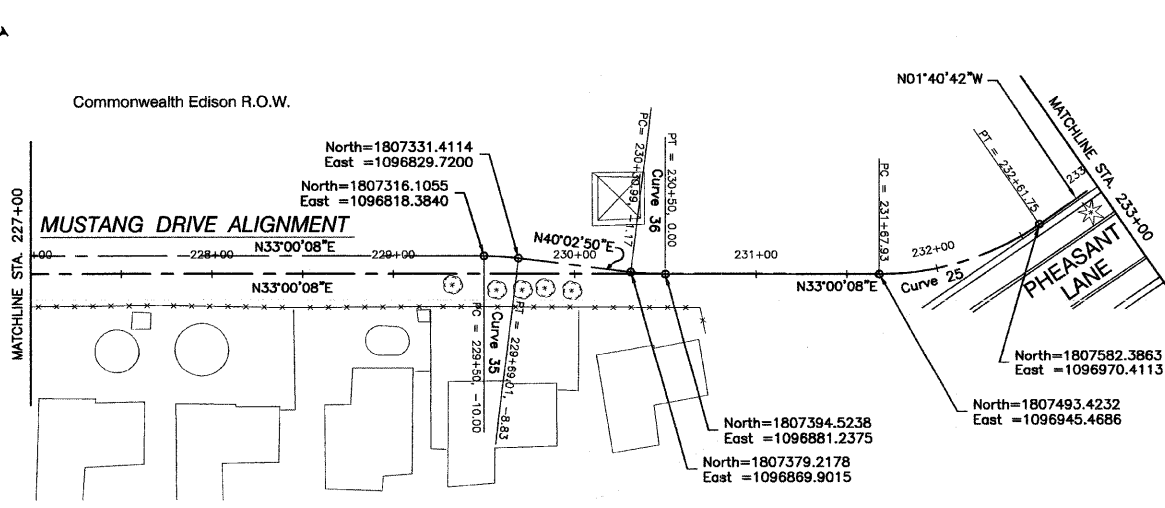
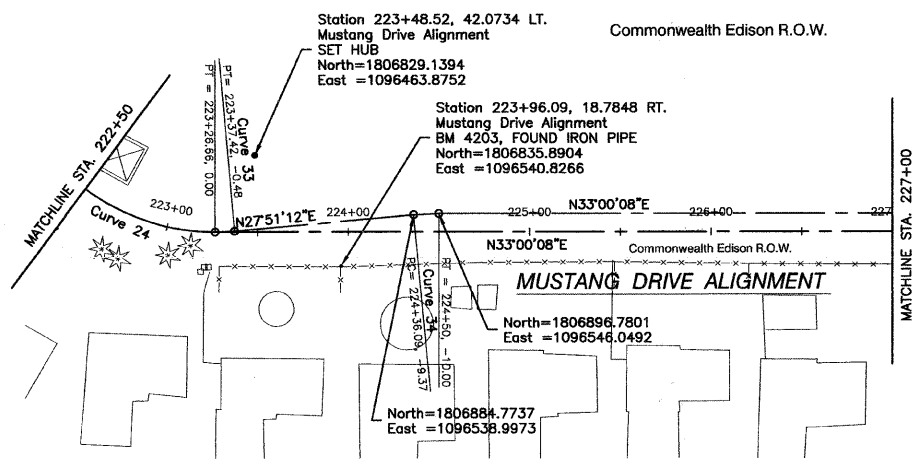
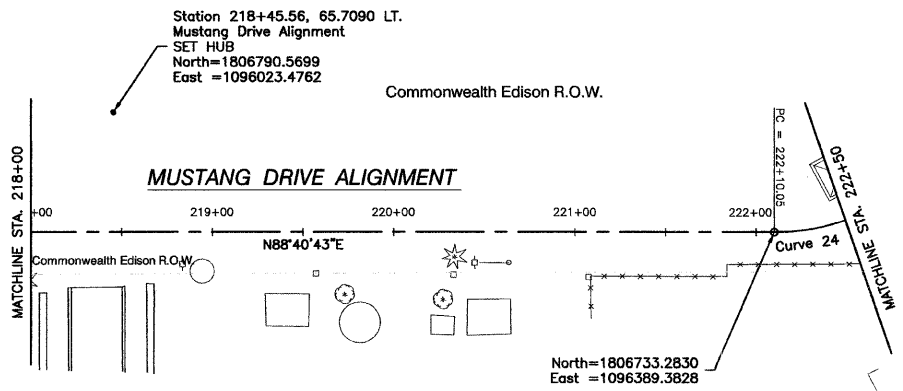
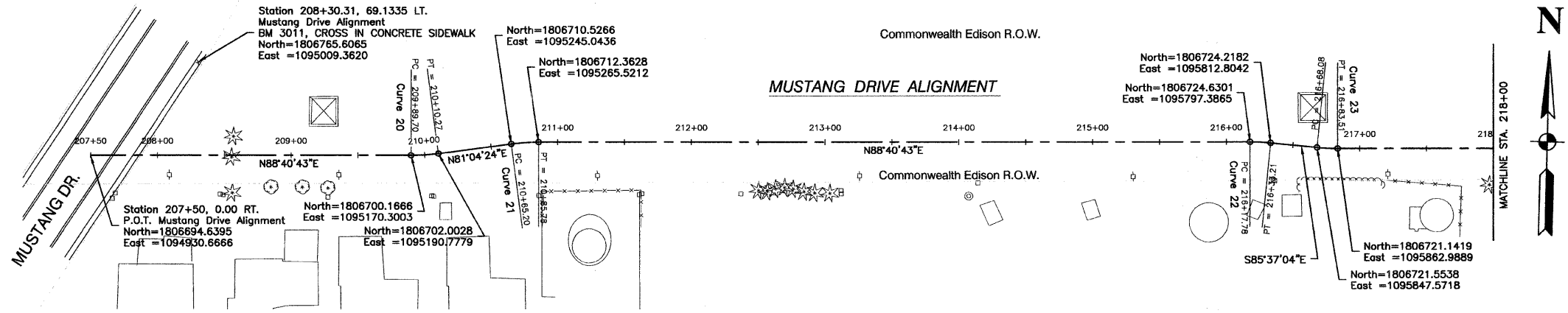
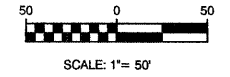
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL  
 AND EAST EXTENSION  
 ALIGNMENT PLAN  
 Pin Oak Drive to Beaver Lake Drive**  
 SCALE: VERT. N/A  
 HORIZ. 1"=50'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB



SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

F. A. L. REC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	9
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	CMM-0001 (673)

CONTRACT #63440



<b>CURVE 20</b> PI= STA. 210+00.00 Δ = 7°36'20" D = 36°57'54" R = 155.00' T = 10.30' L = 20.57' E = 0.34'	<b>CURVE 26</b> PI= STA. 236+68.42 Δ = 34°43'40" D = 36°57'54" R = 155.00' T = 48.47' L = 93.95' E = 7.40'
<b>CURVE 21</b> PI= STA. 210+75.50 Δ = 7°36'20" D = 36°57'54" R = 155.00' T = 10.30' L = 20.57' E = 0.34'	<b>CURVE 33</b> PI= STA. 223+32.06 Δ = 05°08'56" D = 47°44'47" R = 120.00' T = 5.40' L = 10.78' E = 0.12'
<b>CURVE 22</b> PI= STA. 216+25.50 Δ = 05°42'13" D = 36°57'54" R = 155.00' T = 7.72' L = 15.43' E = 0.19'	<b>CURVE 34</b> PI= STA. 224+43.06 Δ = 05°08'56" D = 36°57'54" R = 155.00' T = 6.97' L = 13.93' E = 0.16'
<b>CURVE 23</b> PI= STA. 216+75.80 Δ = 5°42'13" D = 36°57'54" R = 155.00' T = 7.72' L = 15.43' E = 0.19'	<b>CURVE 35</b> PI= STA. 229+59.54 Δ = 07°02'42" D = 36°57'54" R = 155.00' T = 9.54' L = 19.06' E = 0.29'
<b>CURVE 24</b> PI= STA. 222+73.42 Δ = 55°40'36" D = 47°44'47" R = 120.00' T = 63.37' L = 18.61' E = 15.71'	<b>CURVE 36</b> PI= STA. 230+40.53 Δ = 07°02'42" D = 36°57'54" R = 155.00' T = 9.54' L = 19.06' E = 0.29'
<b>CURVE 25</b> PI= STA. 232+16.33 Δ = 34°40'49" D = 36°57'54" R = 155.00' T = 48.40' L = 93.82' E = 7.38'	

**ALIGNMENT DATUM:**  
 1. COORDINATES: ILLINOIS STATE PLANE EASTERN ZONE  
 2. ELEVATIONS: FEMA (NGVD '29)

REVISIONS	
NAME	DATE

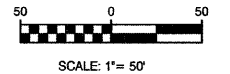
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION ALIGNMENT PLAN**  
 Mustang Drive to Venetian Way

SCALE: VERT. N/A  
 HORIZ. 1"=50'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

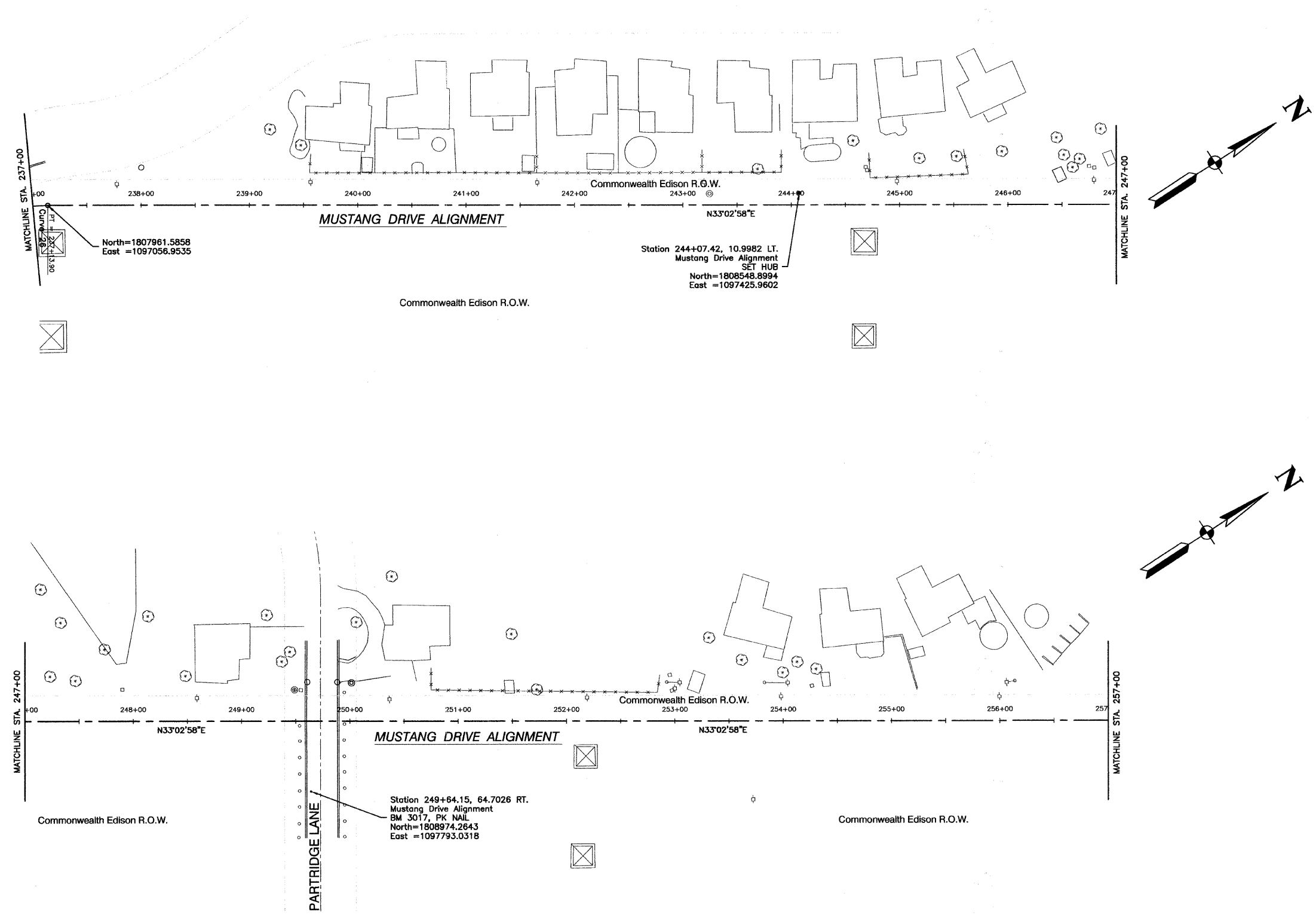
SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1800	06-00008-00-BT	WILL.	73	10
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (673)	

CONTRACT #63440



**CURVE 26**  
 PI= STA. 236+68.42  
 $\Delta = 34^{\circ}43'40''$   
 $D = 36^{\circ}57'54''$   
 $R = 155.00'$   
 $T = 48.47'$   
 $L = 93.95'$   
 $E = 7.40'$



North=1807961.5858  
 East =1097056.9535

Station 244+07.42, 10.9982 LT.  
 Mustang Drive Alignment  
 SET HUB  
 North=1808548.8994  
 East =1097425.9602

Commonwealth Edison R.O.W.

Commonwealth Edison R.O.W.

Station 249+64.15, 64.7026 RT.  
 Mustang Drive Alignment  
 BM 3017, PK NAIL  
 North=1808974.2643  
 East =1097793.0318

Commonwealth Edison R.O.W.

- ALIGNMENT DATUM:**
- COORDINATES: ILLINOIS STATE PLANE EASTERN ZONE
  - ELEVATIONS: FEMA (NGVD '29)

REVISIONS	
NAME	DATE

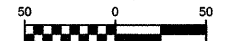
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL  
 AND EAST EXTENSION  
 ALIGNMENT PLAN  
 Mustang Drive to Venetian Way**

SCALE: VERT. N/A  
 HORIZ. 1"=50'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

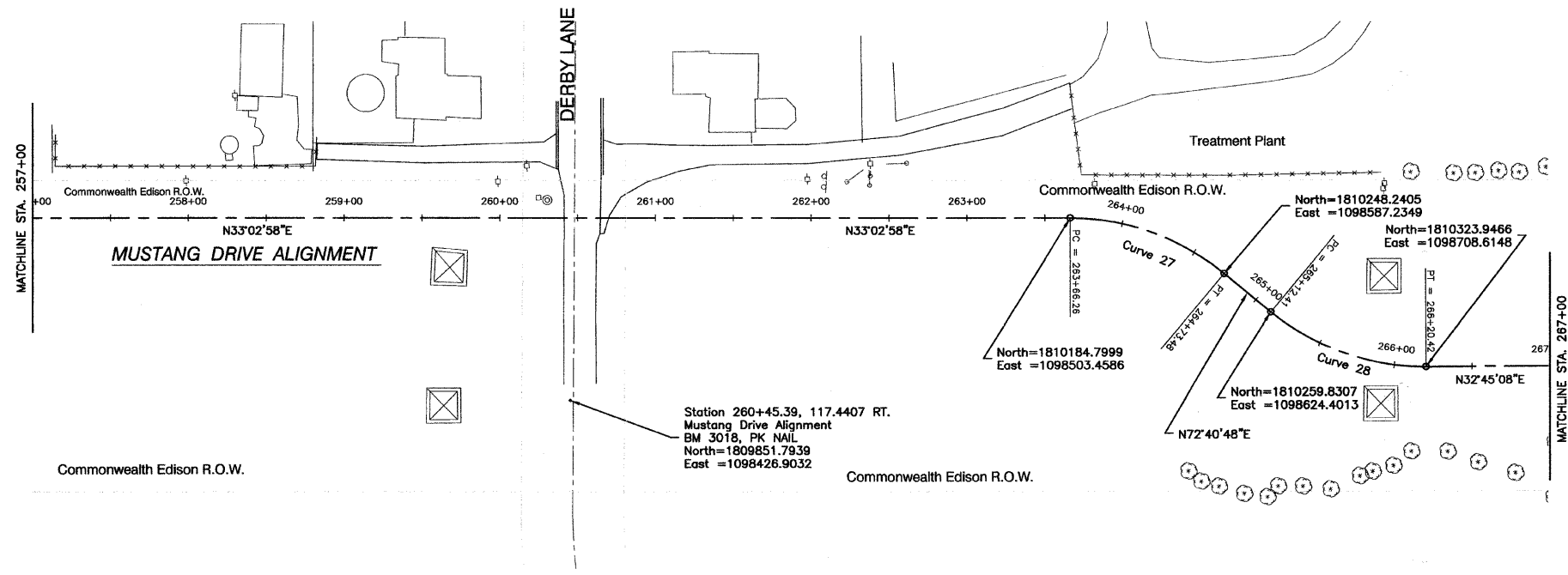
SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

P. A. L. SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	11
STA. TO STA.				
FED. ROAD DIST. NO. 1				
ILLINOIS PROJECT CMM-0001 (673)				

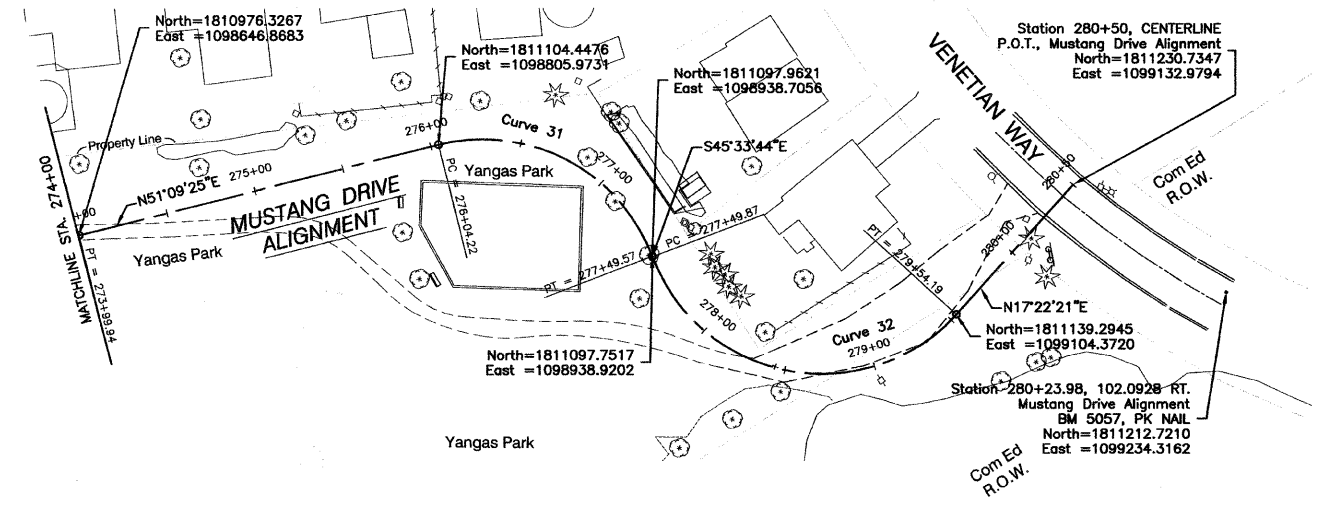
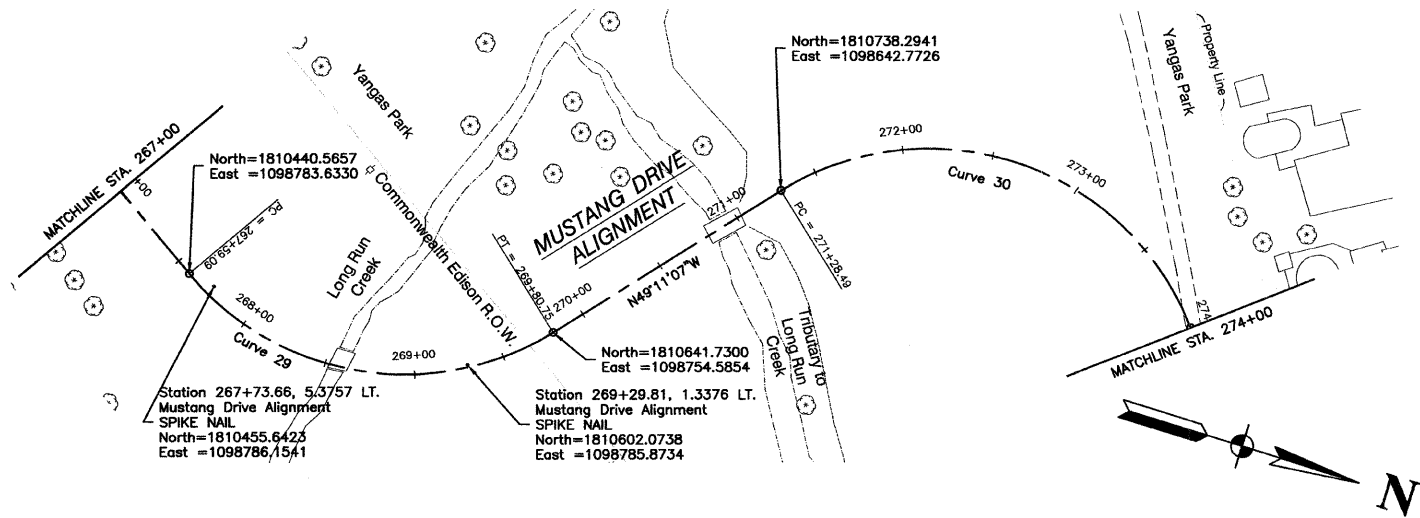
CONTRACT #63440



SCALE: 1" = 50'



<b>CURVE 27</b> PI= STA. 264+22.11 Δ = 39°37'50" D = 36°57'54" R = 155.00' T = 55.85' L = 107.21' E = 9.76'	<b>CURVE 30</b> PI= STA. 273+14.34 Δ = 100°20'32" D = 36°57'54" R = 155.00' T = 185.85' L = 271.45' E = 87.00'
<b>CURVE 28</b> PI= STA. 265+68.72 Δ = 39°55'40" D = 36°57'53" R = 155.00' T = 56.31' L = 108.02' E = 9.91'	<b>CURVE 31</b> PI= STA. 275+93.13 Δ = 83°16'51" D = 57°17'45" R = 100.00' T = 88.91' L = 145.35' E = 33.81'
<b>CURVE 29</b> PI= STA. 268+93.68 Δ = 81°56'15" D = 36°57'54" R = 155.00' T = 134.59' L = 221.66' E = 50.28'	<b>CURVE 32</b> PI= STA. 279+13.26 Δ = 117°03'55" D = 57°17'45" R = 100.00' T = 163.39' L = 204.32' E = 91.57'



**ALIGNMENT DATUM:**  
 1. COORDINATES: ILLINOIS STATE PLANE EASTERN ZONE  
 2. ELEVATIONS: FEMA (NGVD '29)

REVISIONS	
NAME	DATE

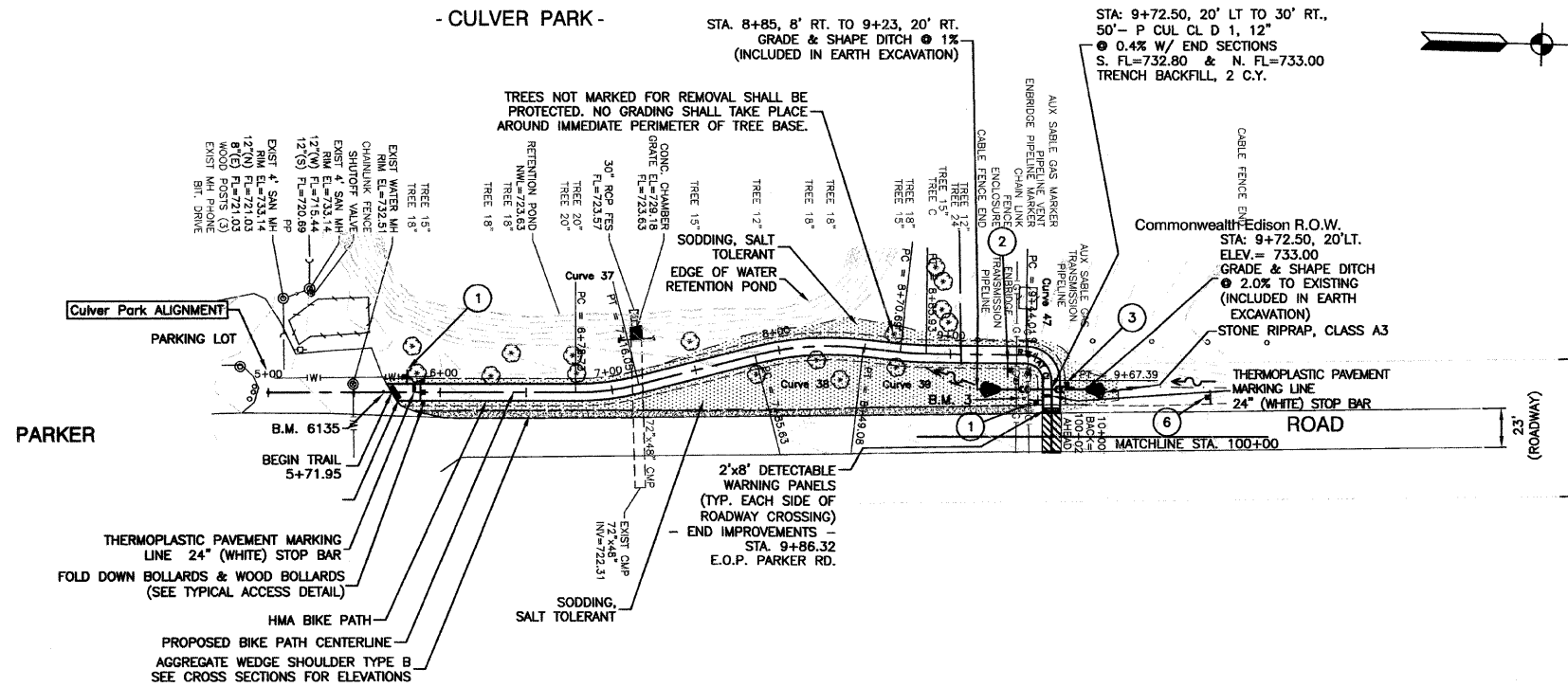
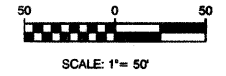
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL  
 AND EAST EXTENSION  
 ALIGNMENT PLAN  
 Mustang Drive to Venetian Way**

SCALE: VERT. N/A  
 HORIZ. 1" = 50'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

F. A. U. SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	12
STA. 5+71.95		TO STA. 9+86.32		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (873)	

CONTRACT #63440



**LEGEND:**

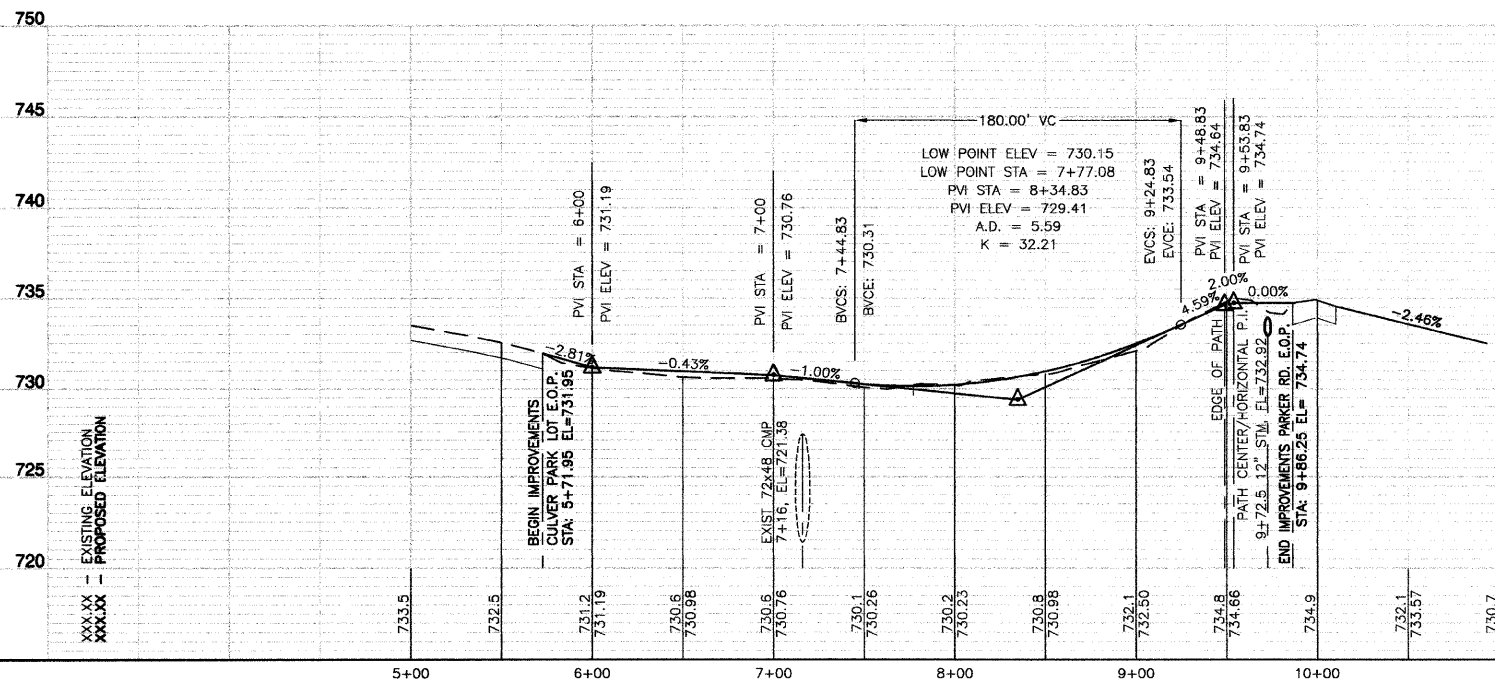
	SODDING/LIMITS OF GRADING
	SEEDING/LIMITS OF GRADING

**BENCH MARK: 3**

SPIKE SET ALONG PARKER ROAD, IN SHOULDER, 7.5' OFF WEST EDGE OF PAVEMENT, AND 450' SOUTH OF W. OAKWOOD DRIVE INTERSECTION. ELEVATION = 733.76

**BENCH MARK: 6135**

PK NAIL SET IN PAVEMENT AT CULVER PARK PARKING LOT ENTRANCE, 18' NORTHEAST OF WATER MANHOLE, AND 13' WEST OF PARKER ROAD EDGE OF PAVEMENT. ELEVATION = 732.10



**BIKE TRAIL SIGN LEGEND:**

1	2	3	4	6
R1-1 18"x18"	W1-1R 18"x18"	W1-1L 18"x18"	M4-5 6"x4"	W11-1 24"x24"
	SLOW 12"x4"	SLOW 12"x4"		
			5	
			D11-1 24"x18"	

**REVISIONS**

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAO COMMUNITY BIKE TRAIL AND EAST EXTENSION PLAN & PROFILE SHEETS**

Culver Park at Parker Rd. STA 5+71.95 TO STA 9+86.32

SCALE: VERT. 1"=5'  
 HORIZ. 1"=50'

DATE: FEBRUARY 2, 2010

DRAWN BY: JJB  
 CHECKED BY: BDB

SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

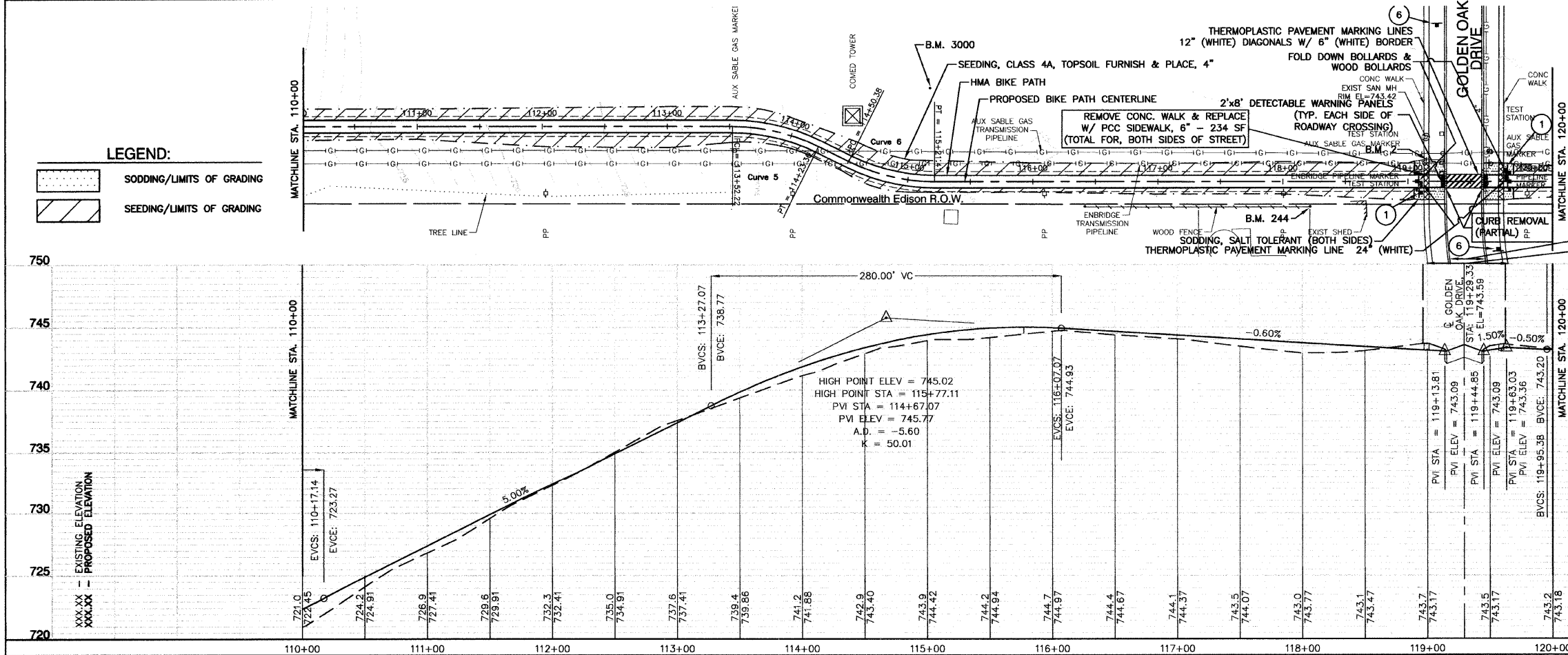
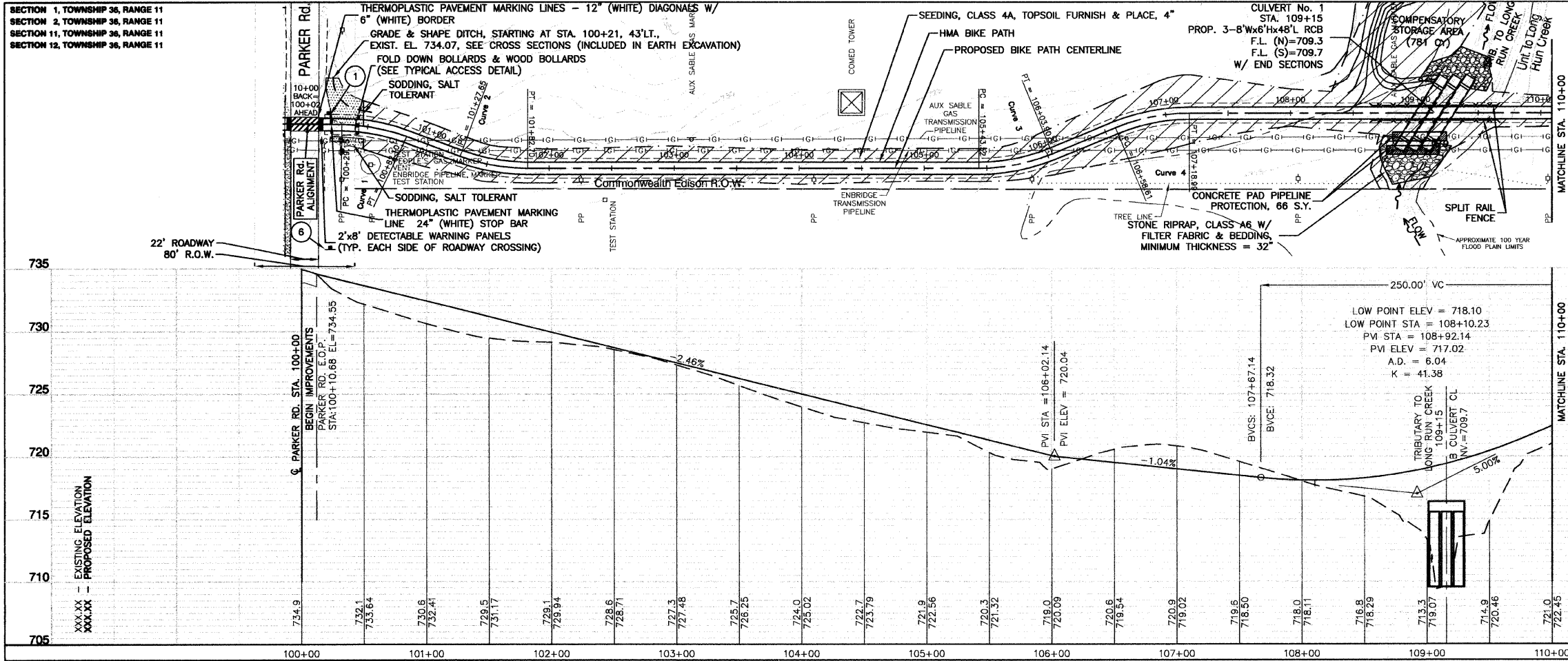
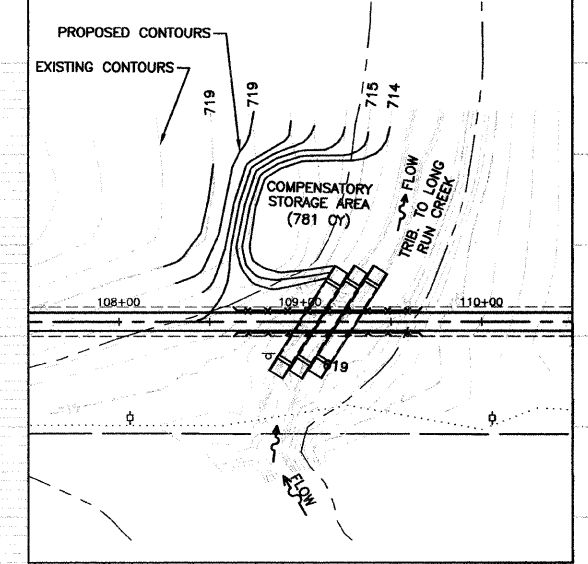
F. A. U. SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-0000B-00-BT	WILL	73	13
STA. 100+10.68		TO STA. 120+00		
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT CMM-0001 (873)

**BENCH MARK: 3**

SPIKE SET ALONG PARKER ROAD, IN SHOULDER, 7.5' OFF WEST EDGE OF PAVEMENT, AND 450' SOUTH OF W. OAKWOOD DRIVE INTERSECTION. ELEVATION = 733.76

**CONTRACT #63440**

**COMP. STORAGE GRADING DETAIL - STA. 109+15**



**BENCH MARK: 2**

CROSS IN CONCRETE SIDEWALK, ON WEST SIDE OF GOLDEN OAK DRIVE, APPROXIMATELY 396' SOUTH OF OAKWOOD DRIVE INTERSECTION. ELEVATION = 743.70

**BENCH MARK: 244**

IRON PIPE 122' WEST OF GOLDEN OAK DRIVE CENTERLINE, ALONG SOUTH SIDE OF COM-ED EASEMENT, AND 432' SOUTH OF OAKWOOD DRIVE INTERSECTION AND FOUND AT EAST END OF WOOD FENCE. ELEVATION = 742.74

**BENCH MARK: 3000**

SPIKE SET 56' NORTHEAST OF COM-ED TOWER, AND 84' NORTH OF WOOD POWER POLE LINE, AND 426' WEST OF GOLDEN OAK DRIVE CENTERLINE. ELEVATION = 744.31

**LEGEND:**

	SODDING/LIMITS OF GRADING
	SEEDING/LIMITS OF GRADING

**BIKE TRAIL SIGN LEGEND:**

1 STOP R1-1 18"x18"	2 W1-1R 18"x18"	3 W1-1L 18"x18"	4 END M4-6 6"x4"	6 W11-1 24"x24"
	SLOW 12"x4"	SLOW 12"x4"		
			5 BIKE ROUTE D11-1 24"x18"	

**REVISIONS**

NO.	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION PLAN & PROFILE SHEETS**

PARKER Rd. to Bell Rd. STA 100+10.68 TO STA 120+00

SCALE: VERT. 1"=5'  
 HORIZ. 1"=50'

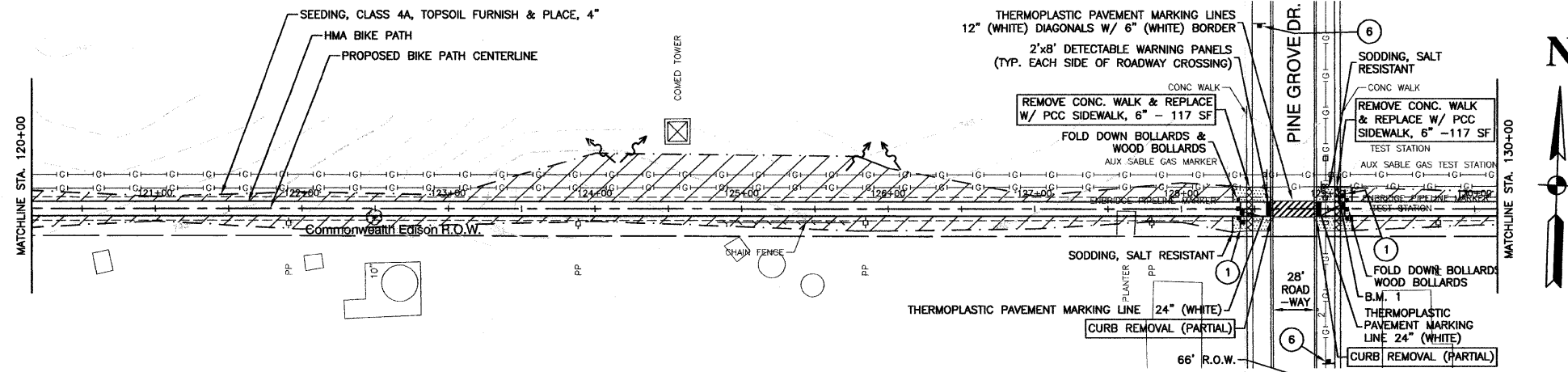
DATE: FEBRUARY 2, 2010

DRAWN BY: JJB  
 CHECKED BY: BDB

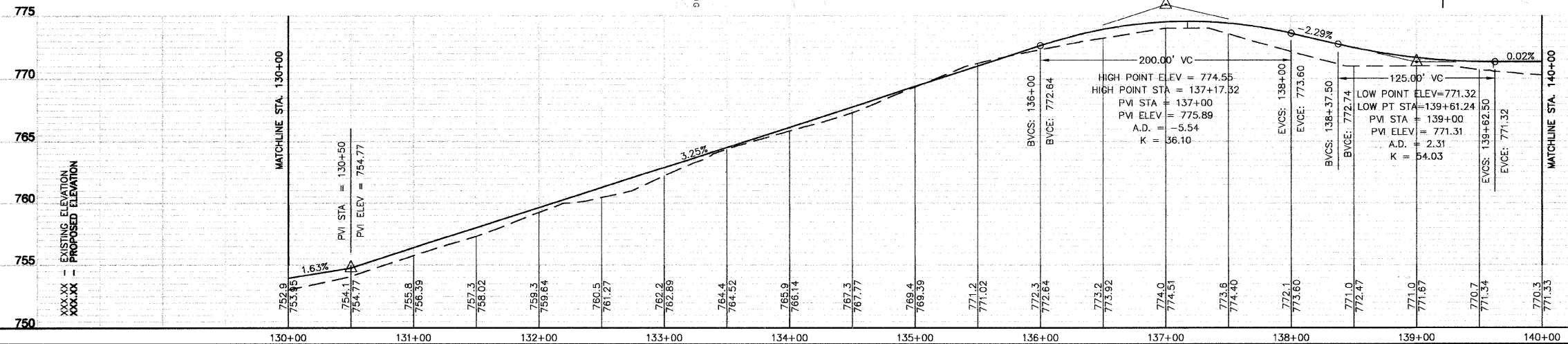
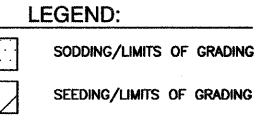
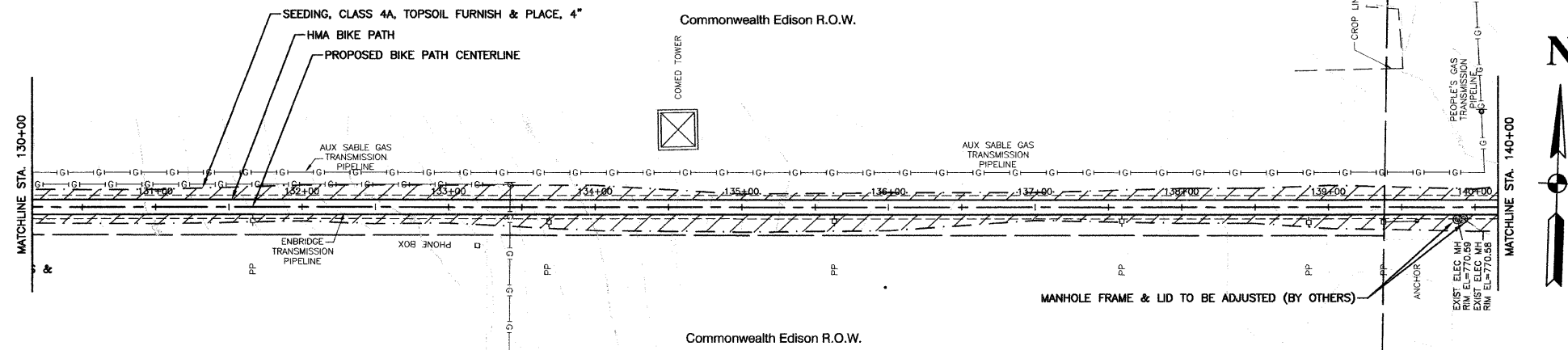
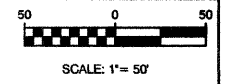
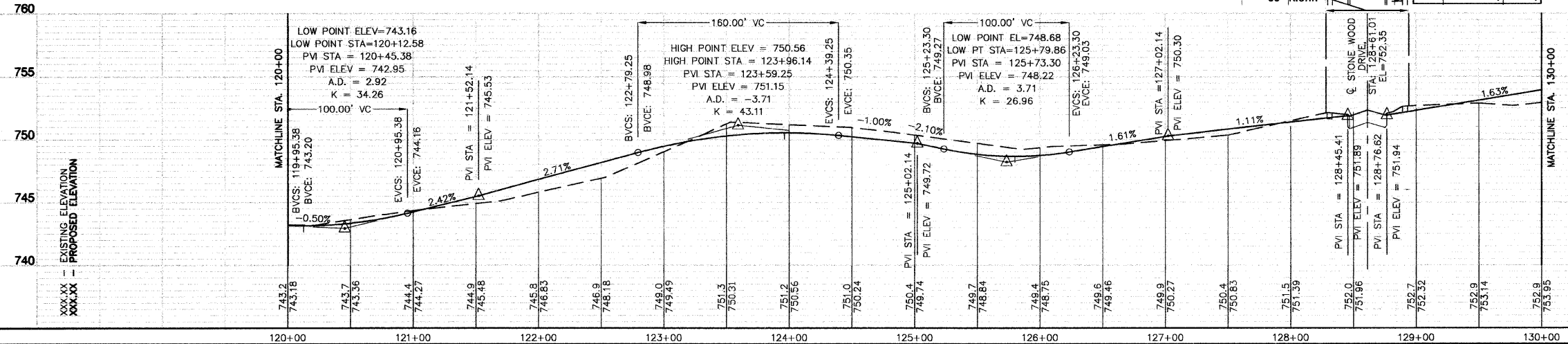
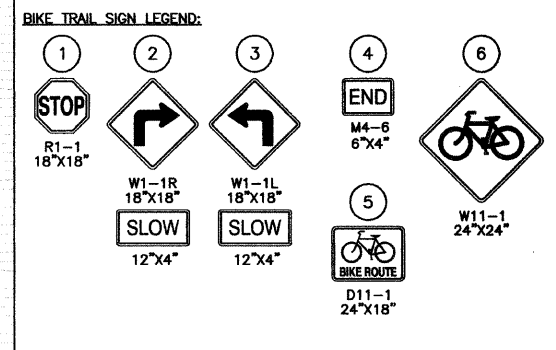
SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	14
STA. 120+00		TD STA. 140+00		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT CMM-0001 (873)	

CONTRACT #63440



**BENCH MARK: 1**  
 CROSS IN CONCRETE SIDEWALK, ON EAST SIDE OF PINE GROVE DRIVE, APPROXIMATELY 400' SOUTH OF OAKWOOD DRIVE INTERSECTION.  
 ELEVATION = 752.66



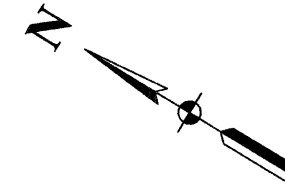
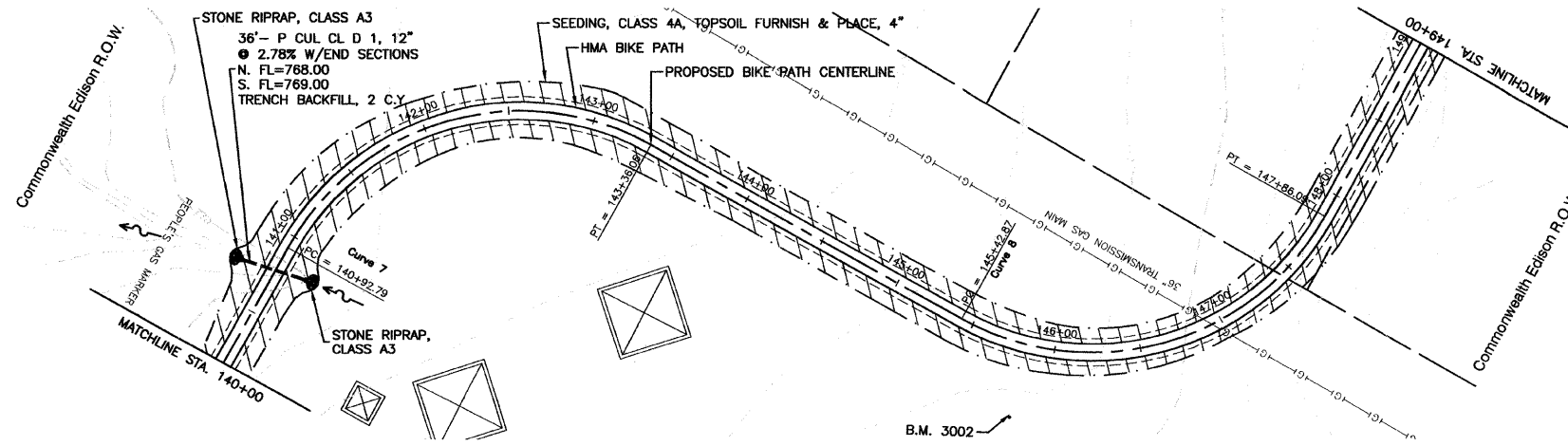
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION PLAN & PROFILE SHEETS**  
 PARKER Rd. to Bell Rd. STA 120+00 TO STA 140+00  
 SCALE: VERT. 1"=5'  
 HORIZ. 1"=50'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

F. A. L. REC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	15
STA. 140+00		TO STA. 156+18.01		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT CMM-0001 (873)	

CONTRACT #63440

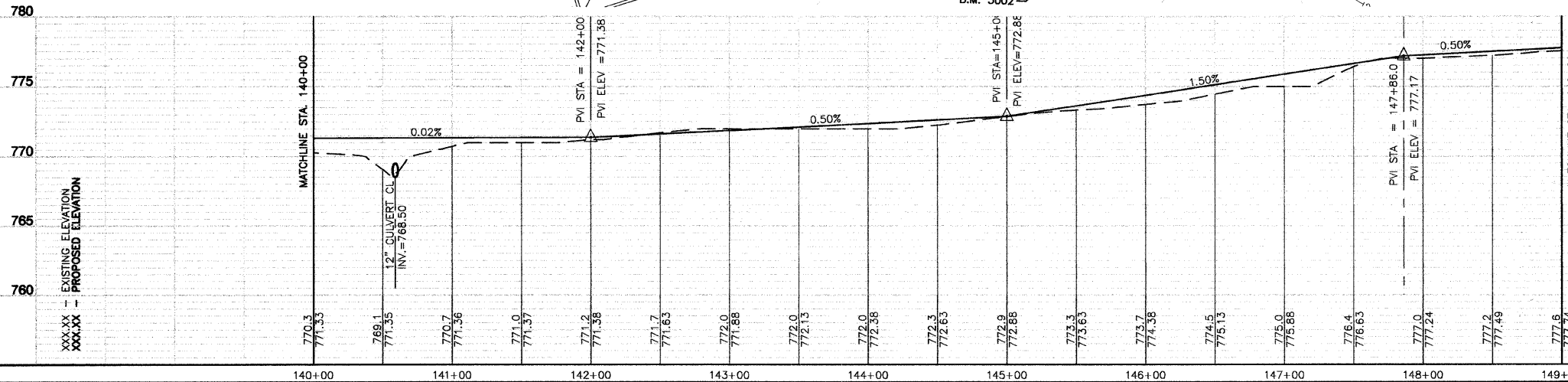


**BENCH MARK: 9**

SPIKE SET 81' NORTH OF THE WESTERLY OF TWO COM-ED TOWERS, APPROXIMATELY 1260' WEST OF BELL ROAD AND 132' NORTH OF MARTINGALE LANE CENTERLINE. ELEVATION = 776.26

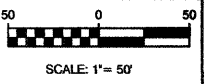
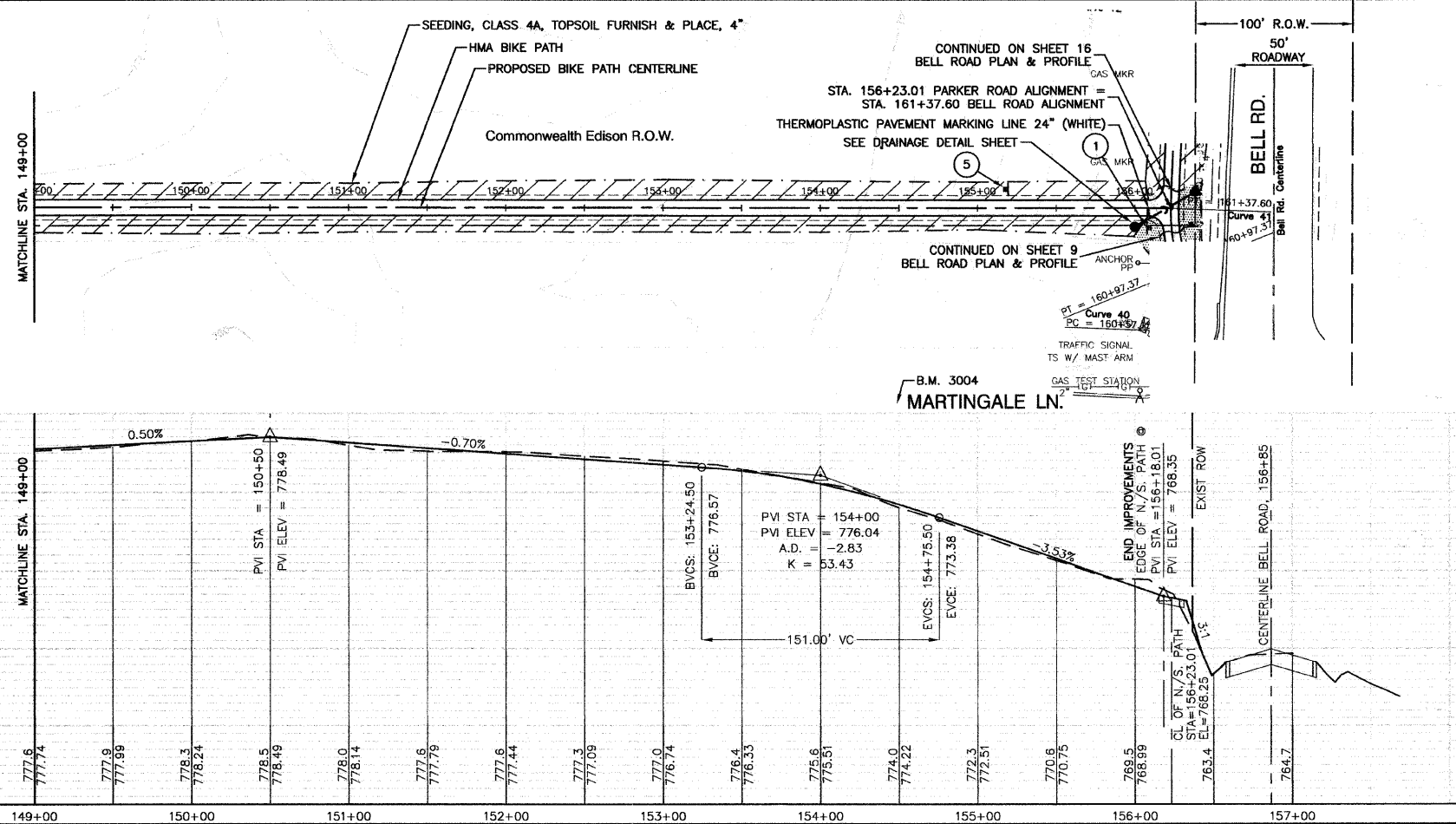
**BENCH MARK: 3002**

SPIKE SET 194' NORTH OF THE EASTERLY OF TWO COM-ED TOWERS AND APPROXIMATELY 1094' WEST OF BELL ROAD CENTERLINE AND APPROXIMATELY 237' NORTH OF MARTINGALE LANE CENTERLINE. ELEVATION = 774.34



**BIKE TRAIL SIGN LEGEND:**

1 STOP R1-1 18"x18"	2 W1-1R 18"x18"	3 W1-1L 18"x18"	4 END M4-6 6"x4"	6 W11-1 24"x24"
	SLOW 12"x4"	SLOW 12"x4"	5 BIKE ROUTE D11-1 24"x18"	

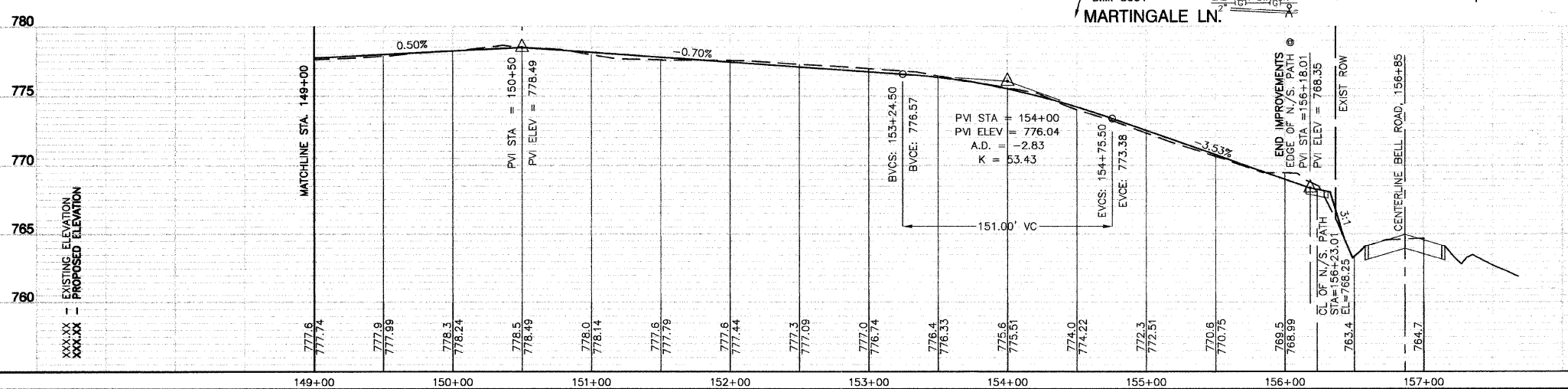


**LEGEND:**

- [Pattern] SODDING/LIMITS OF GRADING
- [Pattern] SEEDING/LIMITS OF GRADING

**BENCH MARK: 3004**

SPIKE SET ALONG PARKER ROAD, IN SHOULDER, 7.5' OFF WEST EDGE OF PAVEMENT, AND 450' SOUTH OF W. OAKWOOD DRIVE INTERSECTION. ELEVATION = 733.76



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION PLAN & PROFILE SHEETS**

PARKER Rd. to Bell Rd. STA 140+00 TO STA 156+18.01

SCALE: VERT. 1"=5'  
 HORIZ. 1"=50'

DATE: FEBRUARY 2, 2010

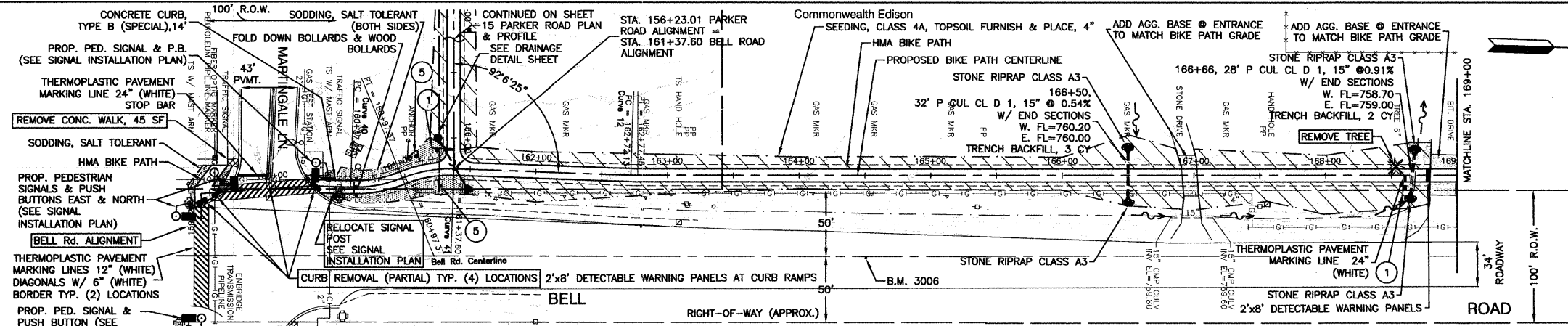
DRAWN BY: JJB  
 CHECKED BY: BDB

ROBINSON ENGINEERING, LTD.  
 1700 SOUTH PARK AVENUE, SOUTH HOLLAND, ILLINOIS 60473  
 (708) 331-6700 FAX (708) 331-3889  
 ILLINOIS DESIGN FIRM REGISTRATION NO. 154601128 06231-PLPR-01-P2

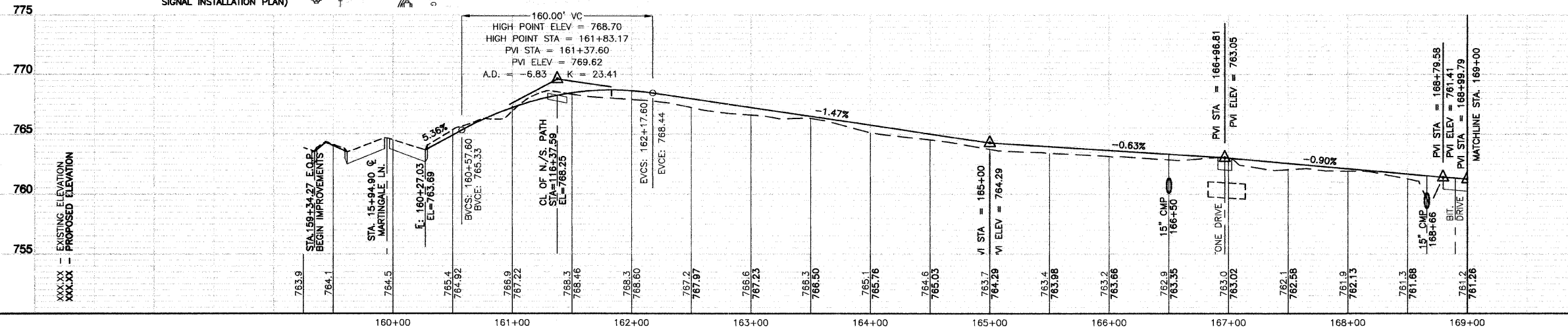
SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

F. A. I. L. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	08-00008-00-BT	WILL	73	16
STA. 159+34.27		TO STA. 178+33.69		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT CMM-00D1 (875)	

CONTRACT #63440

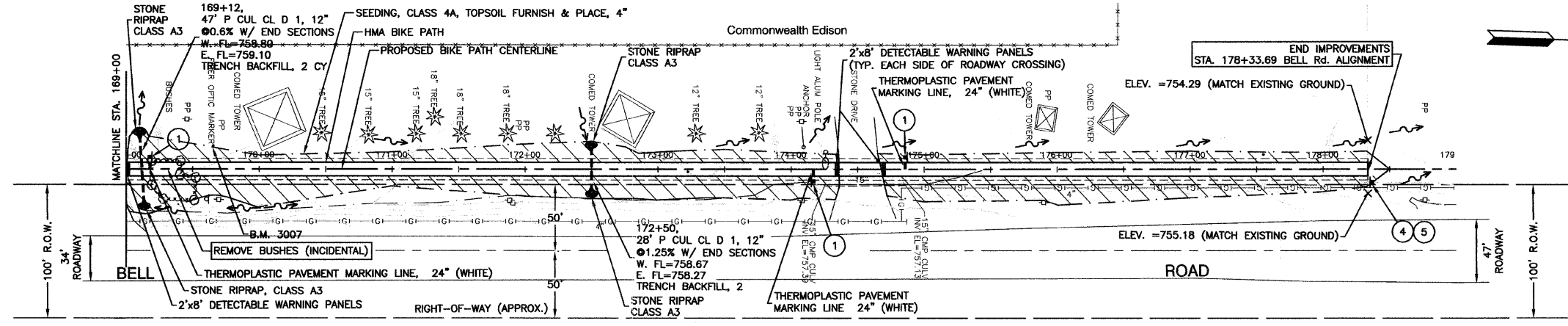


**BENCH MARK: 3006**  
 PK NAIL SET ALONG THE CENTERLINE OF BELL ROAD, APPROXIMATELY 455' NORTH OF MARTINGALE LAINE INTERSECTION. ELEVATION = 764.66

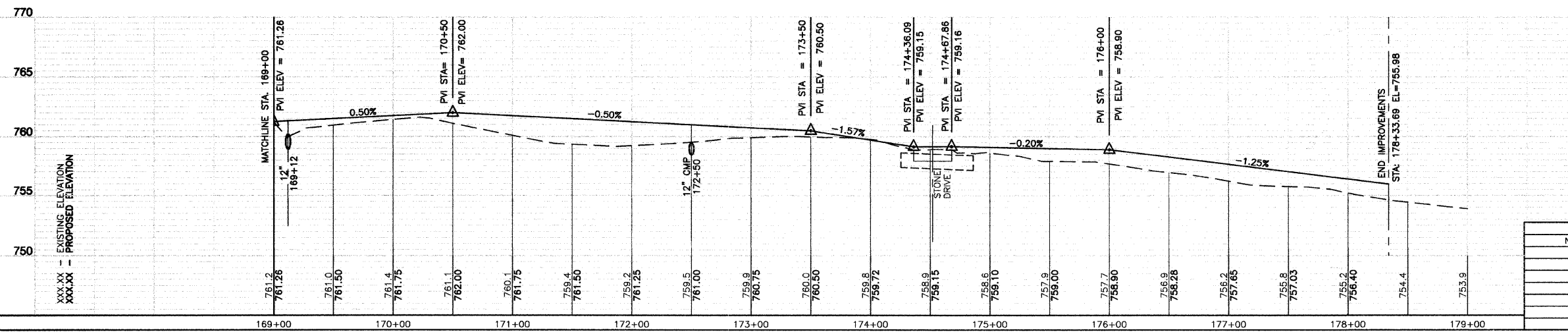


**BIKE TRAIL SIGN LEGEND:**

1 STOP R1-1 18"x18"	2 W1-1R 18"x18"	3 W1-1L 18"x18"	4 END M4-6 6"x4"	6 W11-1 24"x24"
	SLOW 12"x4"	SLOW 12"x4"		
			5 BIKE ROUTE D11-1 24"x18"	



**BENCH MARK: 3007**  
 SPIKE SET 78' WEST OF BELL ROAD CENTERLINE, AND APPROXIMATELY 970' NORTH OF MARTINGALE LAINE INTERSECTION, AND 40' WEST OF WOOD POWER POLE, AND 36' SOUTH OF COM-ED TOWER. ELEVATION = 760.94



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION PLAN & PROFILE SHEETS**  
 Bell Road STA 159+34.27 TO STA 178+33.69

SCALE: VERT. 1"=5'  
 HORIZ. 1"=50'

DATE: FEBRUARY 2, 2010

DRAWN BY: JJB  
 CHECKED BY: BDB



SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	17
STA. 207+65.46		TO STA. 227+00		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT CMM-0001 (673)	

CONTRACT #63440

LEGEND:

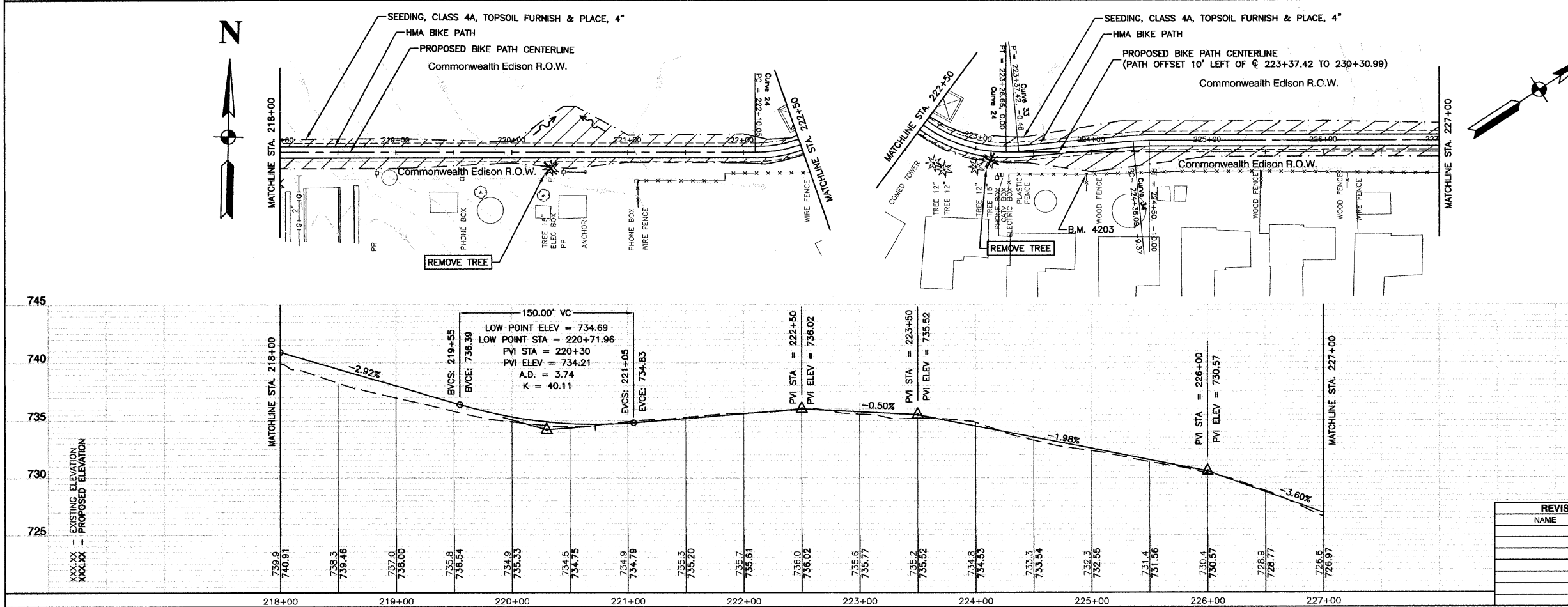
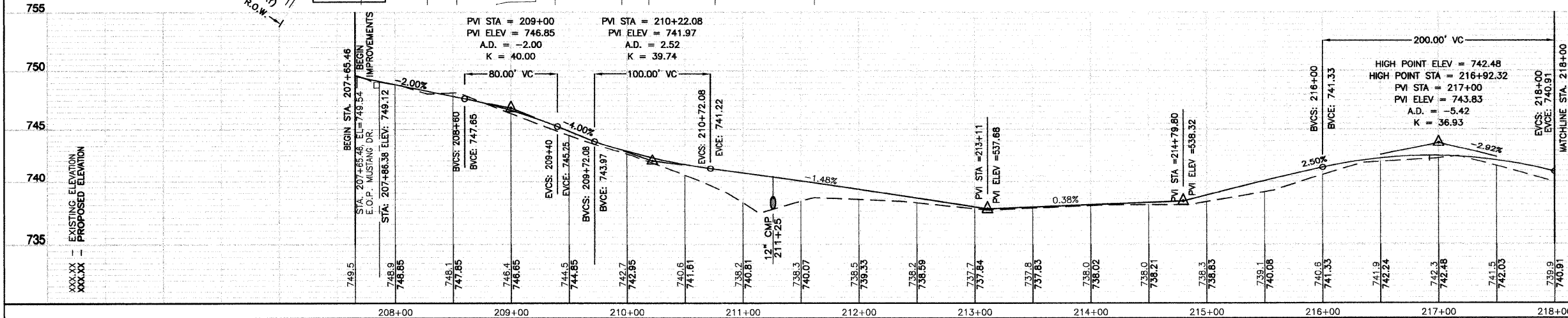
- SODDING/LIMITS OF GRADING
- SEEDING/LIMITS OF GRADING

BENCH MARK: 3011

CROSS IN CONCRETE SIDEWALK ON THE EAST SIDE OF MUSTANG DRIVE, APPROXIMATELY 950' SOUTH OF W. 143RD STREET CENTERLINE AND 274' NORTHEAST OF W. HOLM DRIVE INTERSECTION. ELEVATION = 748.60

BIKE TRAIL SIGN LEGEND:

- 1 STOP R1-1 18"x18"
- 2 W1-1R 18"x18" SLOW 12"x4"
- 3 W1-1L 18"x18" SLOW 12"x4"
- 4 END M4-6 6"x4"
- 5 BIKE ROUTE D11-1 24"x18"
- 6 W11-1 24"x24"



CURVE 33	CURVE 34
PI= STA. 223+32.06	PI= STA. 224+43.06
Δ = 05°08'56"	Δ = 05°08'56"
D = 47'44'47"	D = 36'57'54"
R = 120.00'	R = 155.00'
T = 5.40'	T = 8.97'
L = 10.78'	L = 13.93'
E = 0.12'	E = 0.16'

BENCH MARK: 4203  
 IRON PIPE FOUND AT EDGE OF COM-ED EASEMENT, NEAR THE NORTHWEST EASEMENT BEND, LOCATED AT FENCE/PROPERTY LOT LINE, APPROXIMATELY 1550' EAST OF MUSTANG DRIVE CENTERLINE AND 1050' SOUTHWEST OF PHEASANT LANE CENTERLINE, AND 125' NORTHEAST OF COM-ED TOWER. ELEVATION = 735.26

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION PLAN & PROFILE SHEETS**  
 Mustang Dr. to Venetian Way Sta. 207+65.46 to 227+00

SCALE: VERT. 1"=5'  
 SCALE: HORIZ 1"=50'

DATE: FEBRUARY 2, 2010

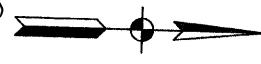
DRAWN BY: JJB  
 CHECKED BY: BDB

ROBINSON ENGINEERING, LTD.  
 1700 SOUTH PARK AVENUE, SOUTH HOLLAND, ILLINOIS 60473  
 (708) 331-4700 FAX (708) 331-3859 ILLINOIS DESIGN FIRM REGISTRATION NO. 194027-02 06231-PLPR-05-P2

SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	18
STA. 227+00	TO STA. 247+00			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (673)	

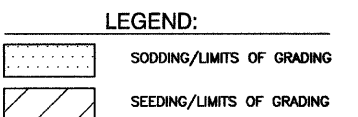
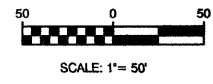
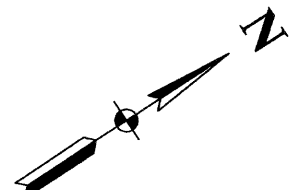
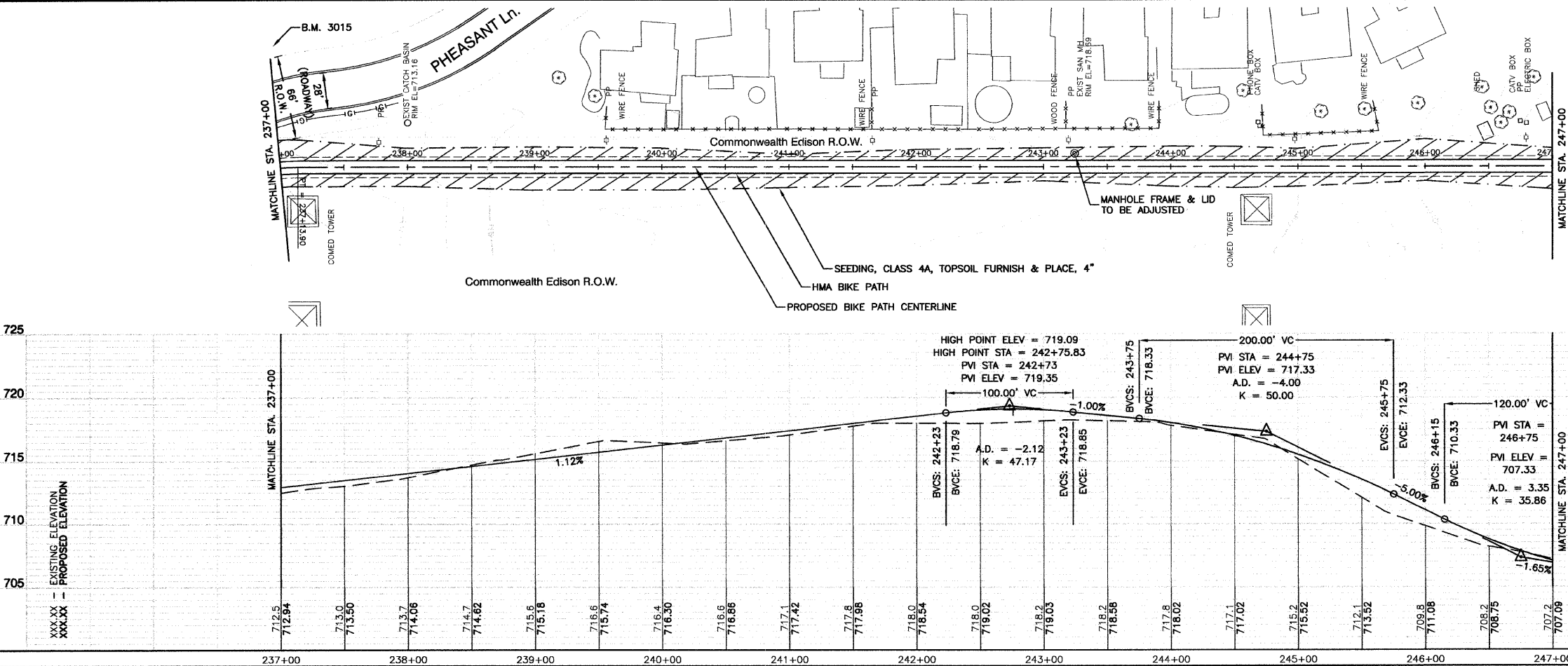
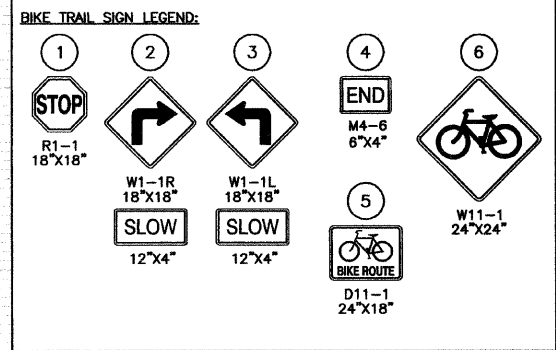
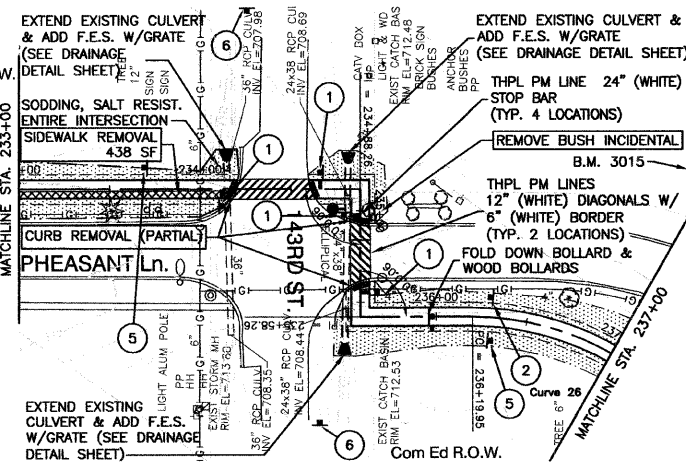
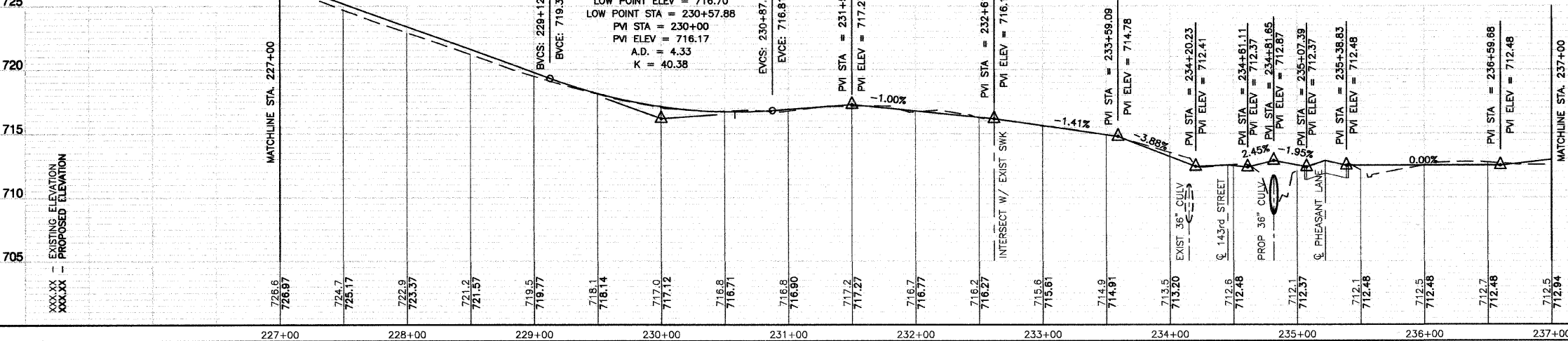
CONTRACT #63440



NOTE:  
 SEE DRAINAGE DETAIL SHEET  
 FOR CULVERT EXTENSION &  
 ELEVATION INFORMATION

**CURVE 35**  
 PI = STA. 229+59.54  
 Δ = 07°02'42"  
 D = 36°57'54"  
 R = 155.00'  
 T = 9.54'  
 L = 19.06'  
 E = 0.28'

**CURVE 36**  
 PI = STA. 230+40.53  
 Δ = 07°02'42"  
 D = 36°57'54"  
 R = 155.00'  
 T = 9.54'  
 L = 19.06'  
 E = 0.28'



**BENCH MARK: 3015**  
 PK NAIL SET IN PAVEMENT ALONG PHEASANT LANE,  
 5.5' FROM EAST EDGE OF PAVEMENT AND 157' NORTH  
 OF 143RD STREET INTERSECTION.  
 ELEVATION = 713.74

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL  
 AND EAST EXTENSION  
 PLAN & PROFILE SHEETS  
 Mustang Dr. to Venetian Way Sta 227+00 to Sta 247+00**

SCALE: VERT. 1"=5'  
 HORIZ. 1"=50'

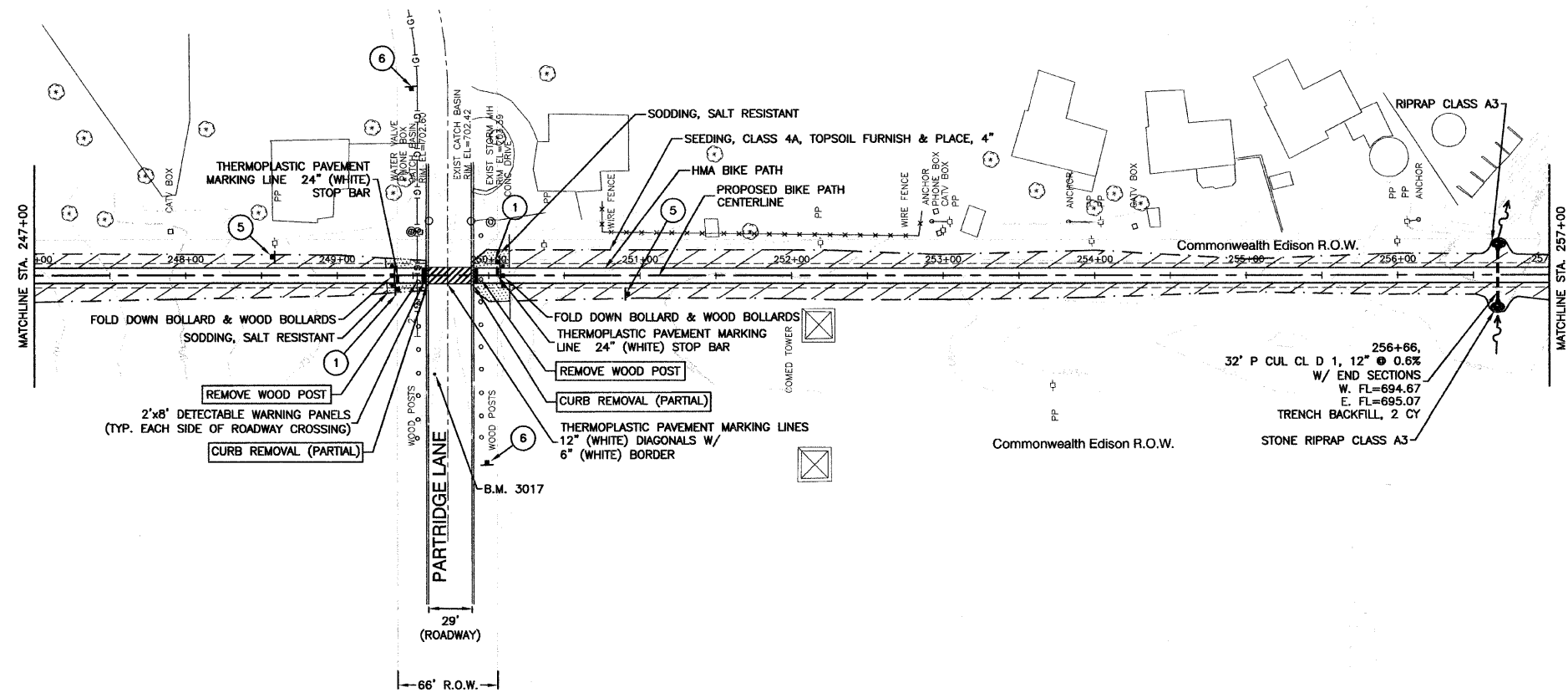
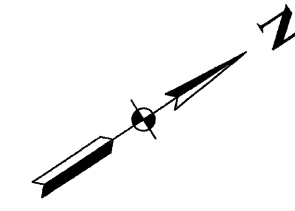
DATE: FEBRUARY 2, 2010

DRAWN BY: JJB  
 CHECKED BY: BDB

SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

F. A. U. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	19
STA. 247+00		TO STA. 257+00		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (673)	

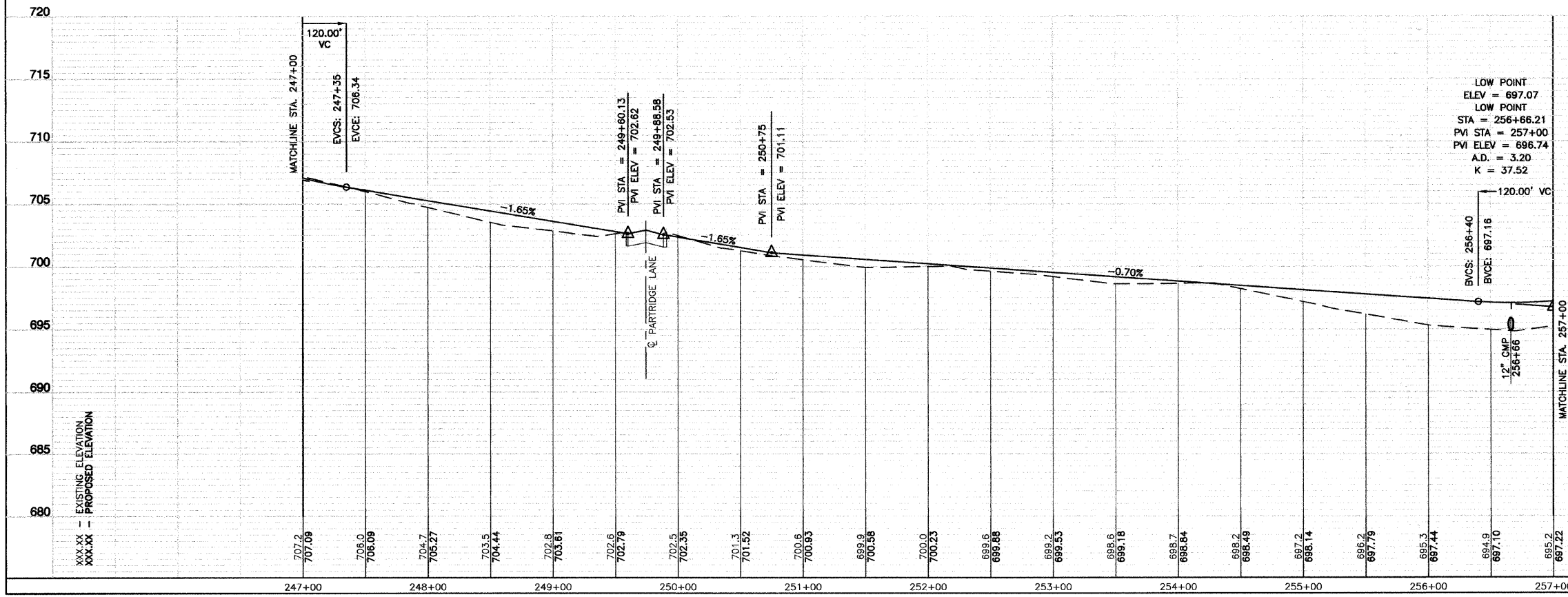
CONTRACT #63440  
 50 0 50  
 SCALE: 1" = 50'



LEGEND:

	SODDING/LIMITS OF GRADING
	SEEDING/LIMITS OF GRADING

BENCH MARK: 3017  
 PK NAIL SET IN PAVEMENT ALONG PARTRIDGE LANE, 4' OFF SOUTH EDGE OF PAVEMENT AND APPROXIMATELY 89' EASTERLY OF WEST COM-ED EASEMENT R.O.W. LINE, AND 86' EAST OF WOOD POWER POLE LINE. ELEVATION = 703.10



BIKE TRAIL SIGN LEGEND:

1 STOP R1-1 18"x18"	2 W1-1R 18"x18"	3 W1-1L 18"x18"	4 END M4-6 6"x4"	6 Bicycle symbol W11-1 24"x24"
	5 SLOW 12"x4"	5 SLOW 12"x4"	5 Bicycle symbol D11-1 24"x18"	

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION**  
**PLAN & PROFILE SHEETS**  
 Mustang Dr. to Venetian Way Sta 247+00 to Sta 257+00

SCALE: VERT. 1"=5'  
 HORIZ. 1"=50'  
 DATE: FEBRUARY 2, 2010

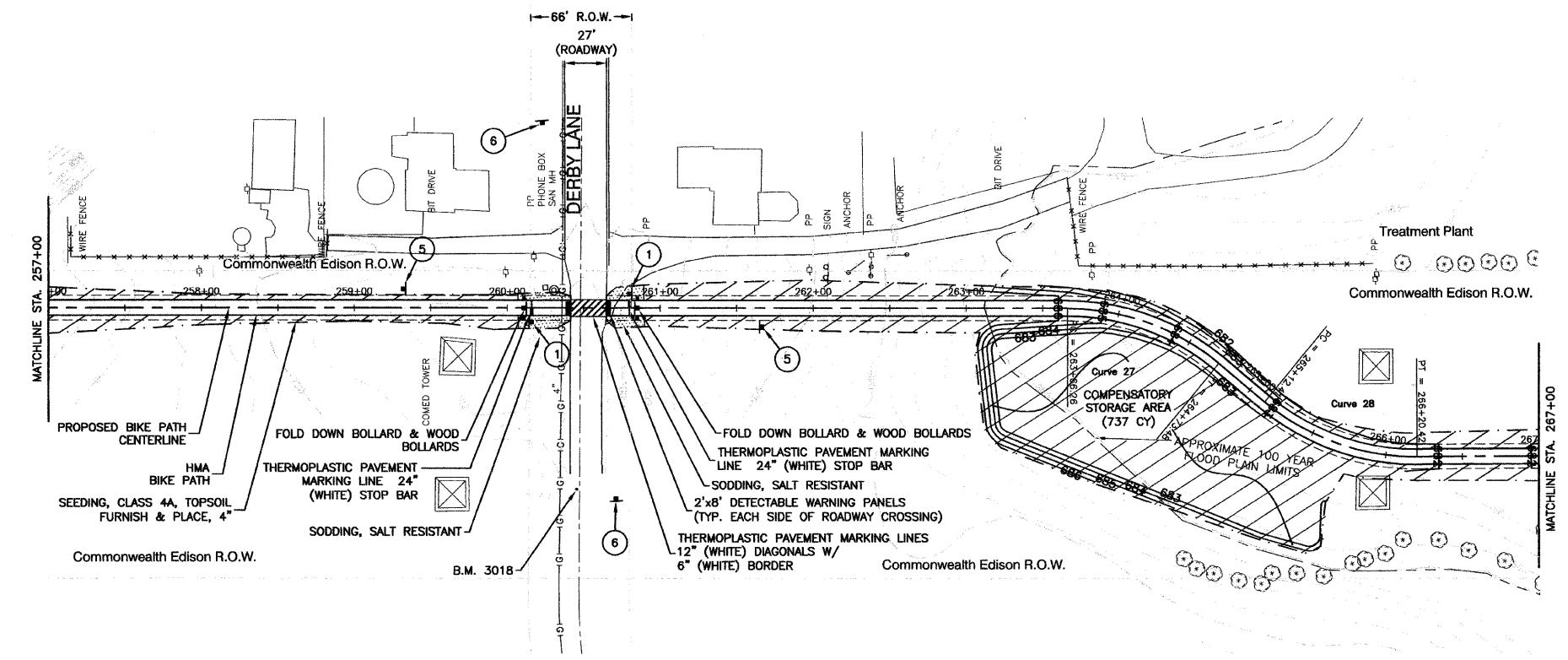
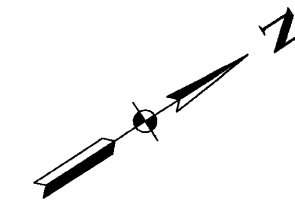
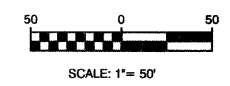
DRAWN BY: JJB  
 CHECKED BY: BDB

ROBINSON ENGINEERING, LTD.  
 1700 SOUTH PARK AVENUE, SOUTH HOLLAND, ILLINOIS 60473  
 (708) 351-6700 FAX (708) 351-3628  
 ILLINOIS DESIGN FIRM REGISTRATION NO. 154602128 06231-PLPR-09-P2

SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	COOK	73	20
STA. 257+00	TO STA. 267+00			
FED. ROAD DIST. NO. 1	ALIGNS	FED. AID PROJECT	CMM-0001 (873)	

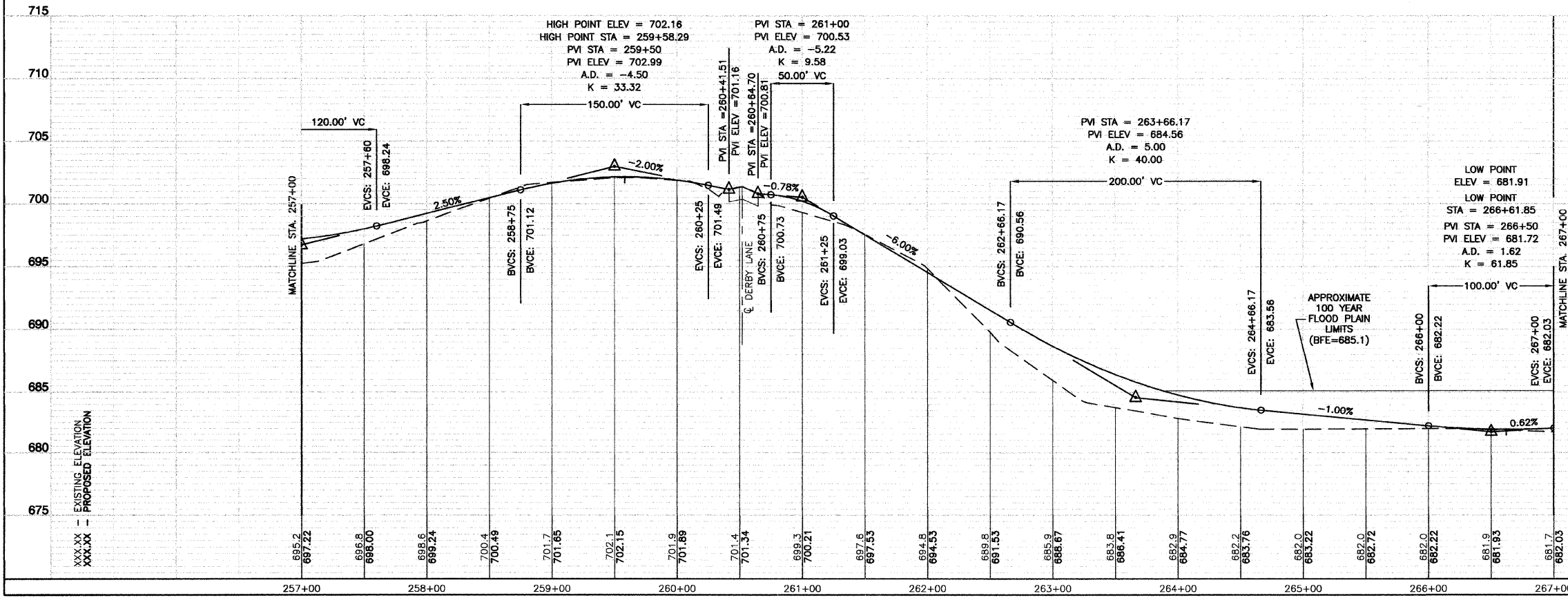
CONTRACT #63440



**LEGEND:**

	SODDING/LIMITS OF GRADING
	SEEDING/LIMITS OF GRADING

**BENCH MARK: 3018**  
 PK NAIL SET ALONG IN PAVEMENT ALONG DERBY LANE, 4' OFF SOUTH EDGE OF PAVEMENT AND APPROXIMATELY 142' EAST OF WEST COM-ED R.O.W. LINE/ WOOD POWER POLE LINE, AND APPROXIMATELY 70' NORTH OF EASTERLY OF TWO COM-ED TOWERS. ELEVATION = 701.38



**BIKE TRAIL SIGN LEGEND:**

1 	2 	3 	4 	6 
	5 	5 	5 	

**REVISIONS**

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION PLAN & PROFILE SHEETS**  
 Mustang Dr. to Venetian Way Sta 257+00 to Sta 267+00

SCALE: VERT. 1"=5'  
 HORIZ. 1"=50'

DATE: FEBRUARY 2, 2010

DRAWN BY: JJB  
 CHECKED BY: BDB

ROBINSON ENGINEERING, LTD.  
 1700 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473  
 (708) 331-6700 FAX (708) 331-3809  
 ILLINOIS DESIGN FIRM REGISTRATION NO. 194001128

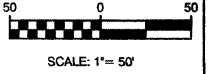
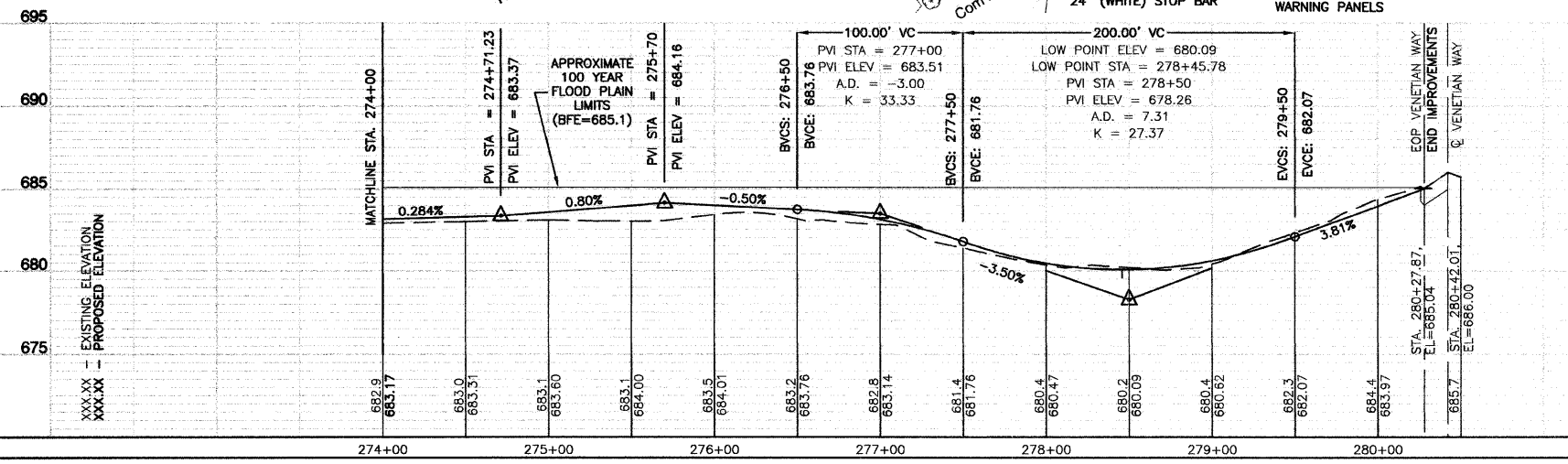
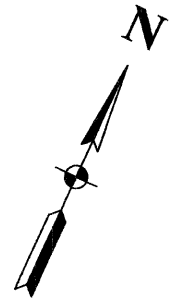
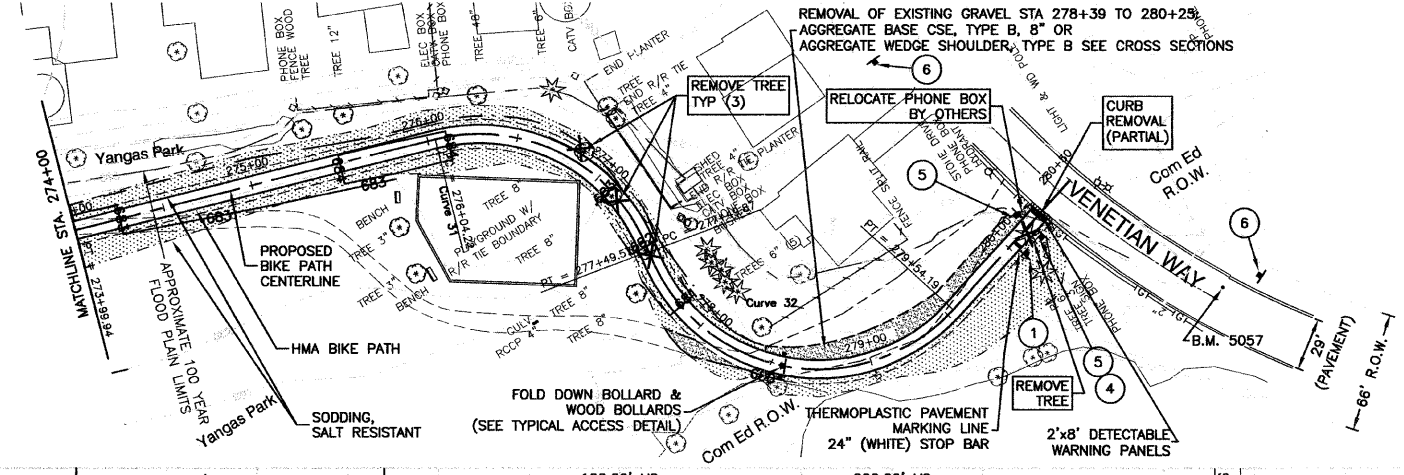
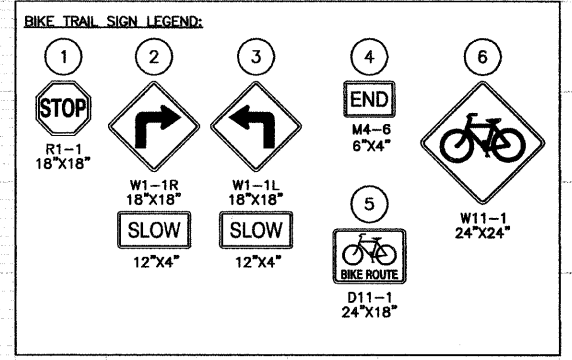
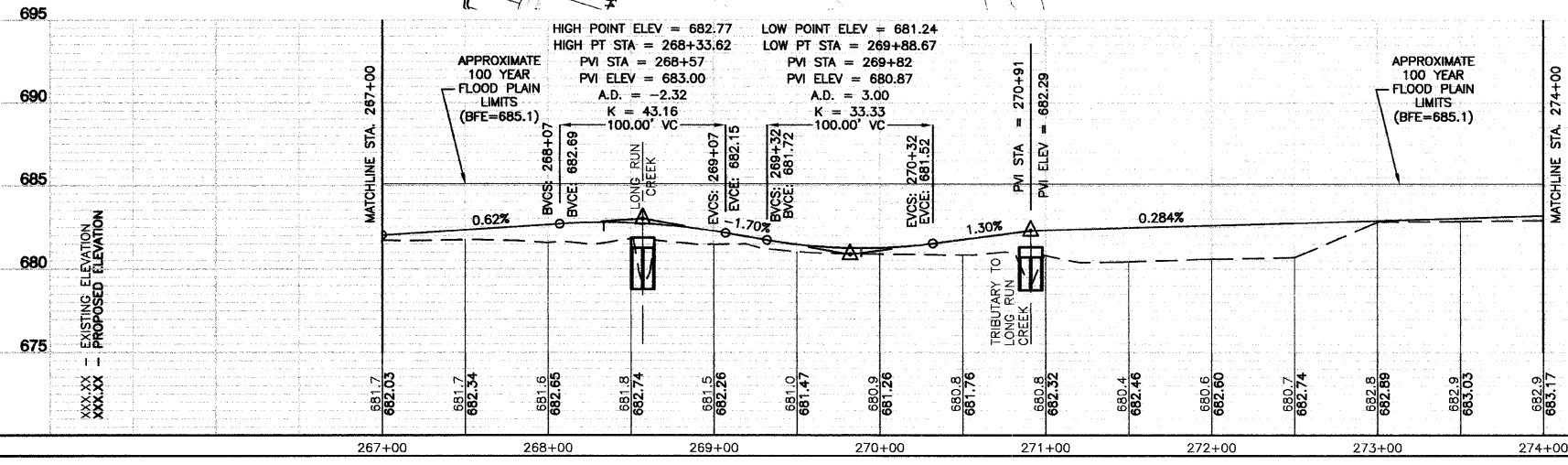
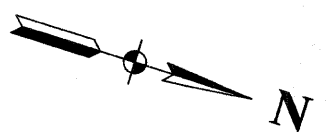
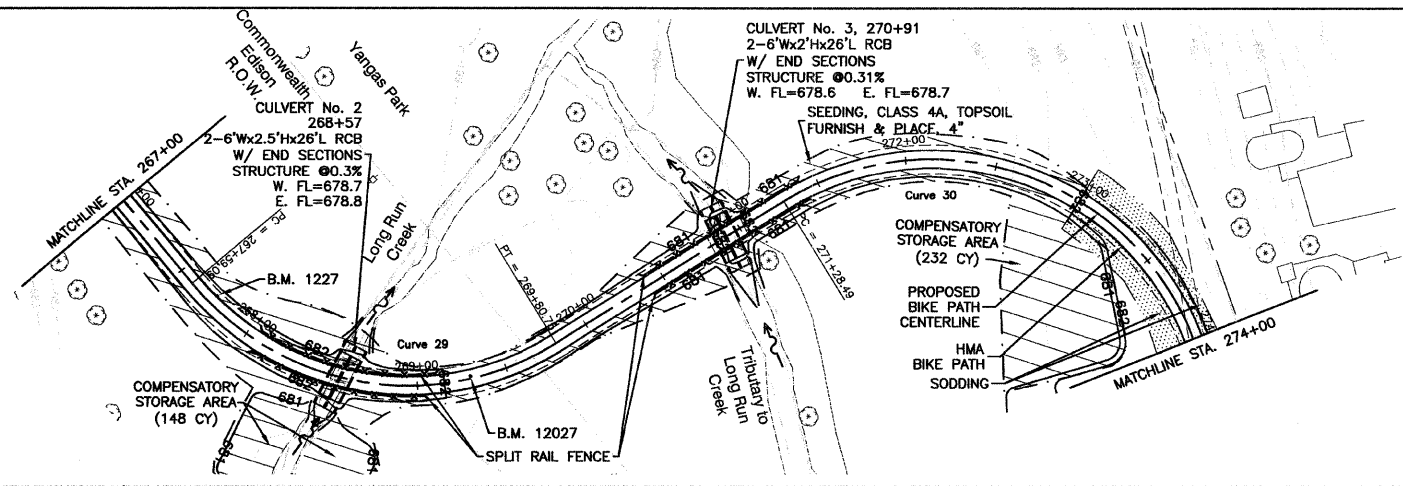
SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-8T	WILL	73	21
STA. 267+00		TO STA. 280+27.87		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT CMM-0001 (673)	

CONTRACT #63440

**BENCH MARK: 1202**  
 SPIKE SET 63' NORTH OF EXISTING BRIDGE OVER LONG RUN CREEK IN YANGUS PARK, AND 30' EAST OF WOOD POWER POLE LINE, AND 280' SOUTHWEST OF TWIN COM-ED TOWERS.  
 ELEVATION = 681.24

**BENCH MARK: 1227**  
 SPIKE SET 80' SOUTH OF EXISTING BRIDGE OVER LONG RUN CREEK IN YANGUS PARK, AND 107' EAST OF WOOD POWER POLE LINE, AND 172' NORTHEAST OF TWIN COM-ED TOWERS.  
 ELEVATION = 681.24



**LEGEND:**

- SODDING/LIMITS OF GRADING
- SEEDING/LIMITS OF GRADING

**BENCH MARK: 5057**  
 PK NAIL IN PAVEMENT ALONG W. VENETIAN WAY, 6.5' OFF NORTH EDGE OF PAVEMENT, AND APPROXIMATELY 240' WEST OF WILL COOK ROAD INTERSECTION AND APPROXIMATELY 198' EAST OF S. VENETIAN WAY LOOP INTERSECTION.  
 ELEVATION = 685.09

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION PLAN & PROFILE SHEETS**  
 Mustang Dr. to Venetian Way Sta. 267+00 to 280+27.87

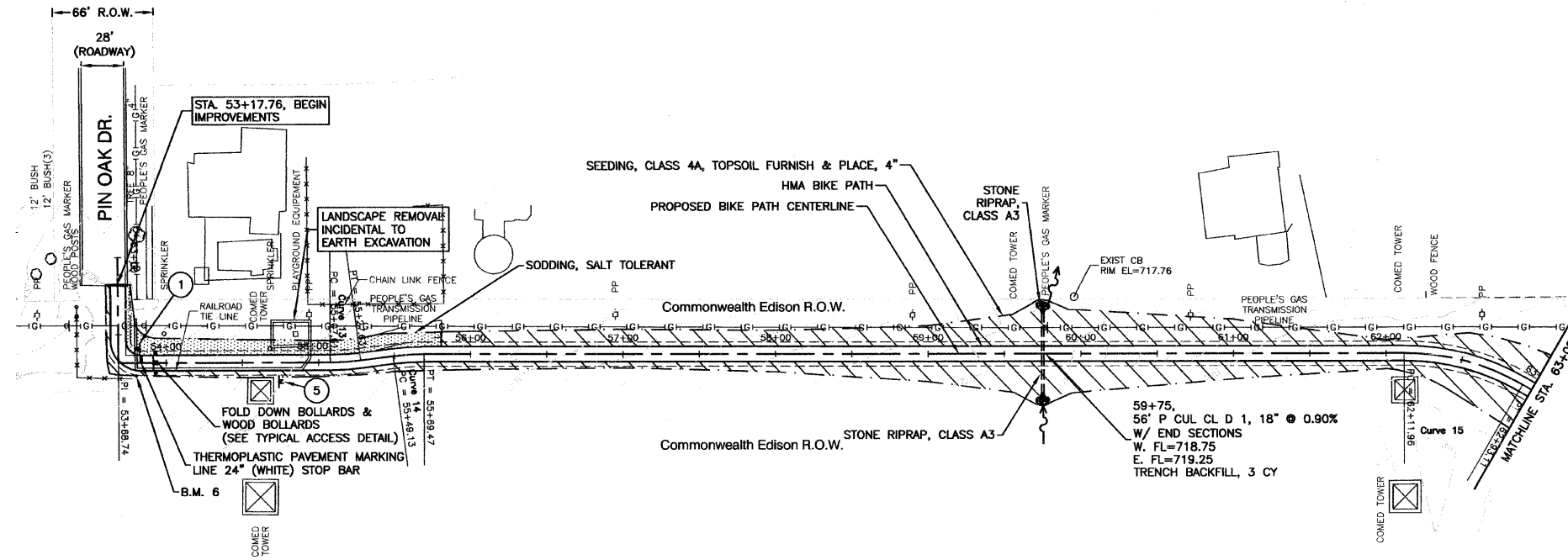
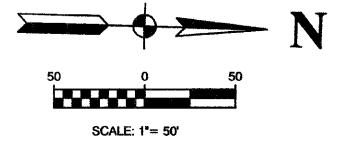
SCALE: VERT. 1"=5'  
 HORIZ. 1"=50'  
 DATE: FEBRUARY 2, 2010

DRAWN BY: JJB  
 CHECKED BY: BDB

SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

F. A. L. SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	22
STA. 53+17.76		TO STA. 63+00		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (673)	

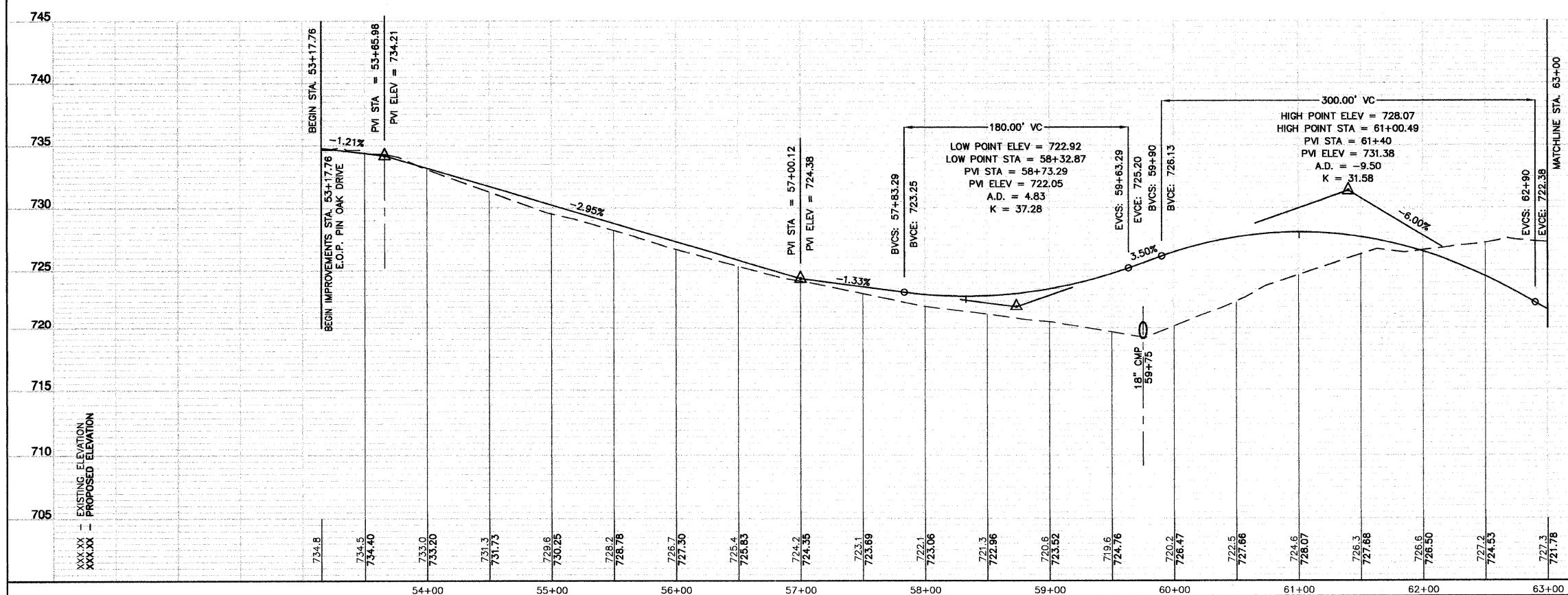
CONTRACT #63440



**LEGEND:**

	SODDING/LIMITS OF GRADING
	SEEDING/LIMITS OF GRADING

**BENCH MARK: 6**  
 SPIKE SET ALONG PIN OAK DRIVE'S EASTERLY EXTENSION AT NORTH END OF CABLE DRIVE, APPROXIMATELY 223' EAST OF S. SPLIT RAIL DRIVE INTERSECTION. ELEVATION = 733.61



**BIKE TRAIL SIGN LEGEND:**

1  R1-1 18"x18"	2  W1-1R 18"x18"	3  W1-1L 18"x18"	4  M4-6 6"x4"	6  W11-1 24"x24"
	5  12"x4"			
			5  D11-1 24"x18"	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION PLAN & PROFILE SHEETS**  
 Pin Oak Dr. to Beaver Lake Dr. Sta 53+17.76 to Sta 63+00

SCALE: VERT. 1"=5'  
 HORIZ. 1"=50'

DATE: FEBRUARY 2, 2010

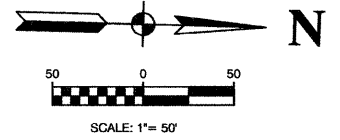
DRAWN BY: JJB  
 CHECKED BY: BDB

ROBINSON ENGINEERING, LTD.  
 1700 SOUTH PARK AVENUE, SOUTH HOLLAND, ILLINOIS 60473  
 (708) 351-6700 FAX (708) 351-3626  
 ILLINOIS DESIGN FIRM REGISTRATION NO. 154001128 06231-PLPR-02-P2

SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

F. A. U. FILE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00006-00-BT	WILL	73	23
STA. 63+00		TO STA. 73+00		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT CMM-0001 (673)	

CONTRACT #63440

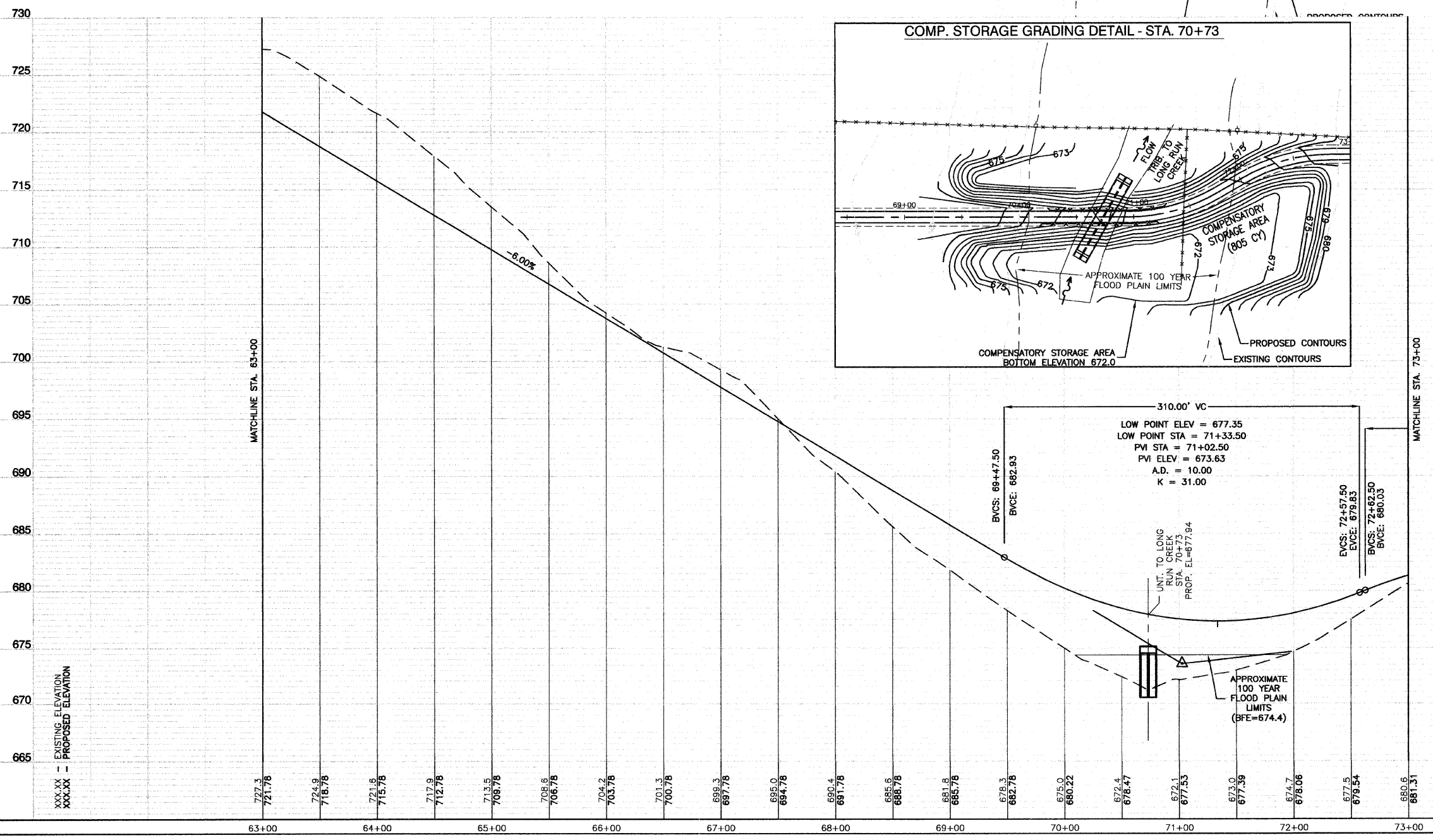
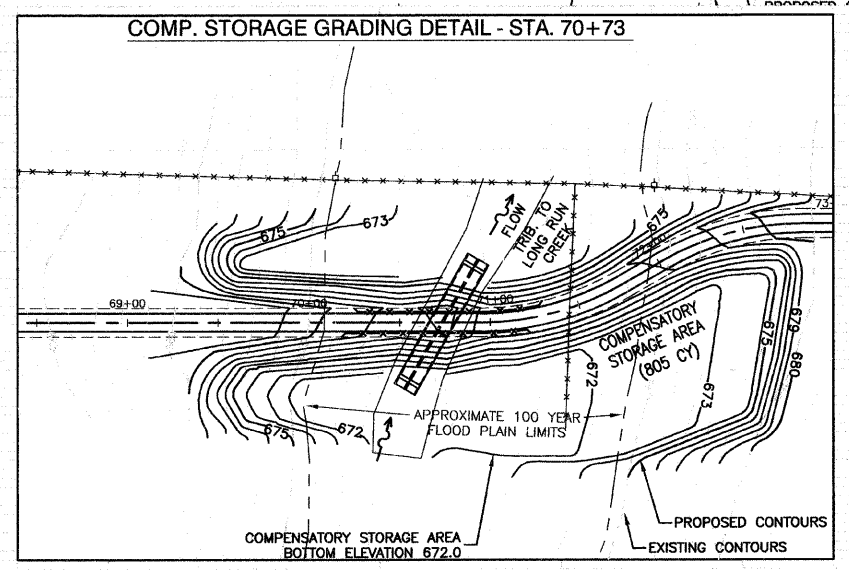
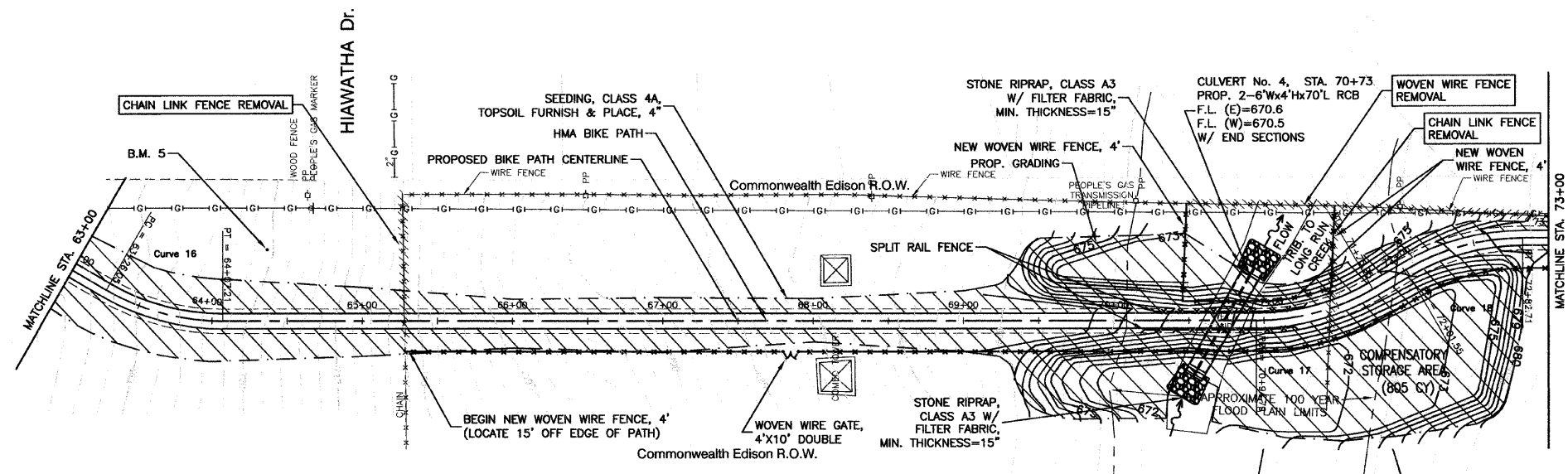


LEGEND:

- SODDING/LIMITS OF GRADING
- SEEDING/LIMITS OF GRADING

BENCH MARK: 5

SPIKE SET IN HILLSIDE ALONG W. HIAWATHA DRIVE'S EASTERLY EXTENSION, APPROXIMATELY 214' EAST OF W. CREEKSIDE DRIVE INTERSECTION, AND 90' SOUTH OF WIRE FENCE, AND 45' SOUTHEAST OF WOOD POWER POLE.  
 ELEVATION = 720.99



BIKE TRAIL SIGN LEGEND:

1  R1-1 18"x18"	2  W1-1R 18"x18"	3  W1-1L 18"x18"	4  M4-6 6"x4"	6  W11-1 24"x24"
	5  12"x4"	5  12"x4"	5  D11-1 24"x18"	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION PLAN & PROFILE SHEETS**

Pin Oak Dr. to Beaver Lake Dr. STA 63+00 TO STA 73+00

SCALE: VERT. 1"=5'  
 HORIZ. 1"=50'

DATE: FEBRUARY 2, 2010

DRAWN BY: JJB  
 CHECKED BY: BDB

SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

**CURVE 43**  
 PI= STA. SEE PLAN  
 Δ = 16°39'06"  
 D = 36°57'54"  
 R = 155.00'  
 T = 22.68'  
 L = 45.05'  
 E = 1.65'

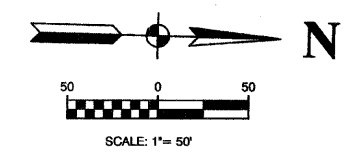
**CURVE 44**  
 PI= STA. SEE PLANS  
 Δ = 16°39'06"  
 D = 36°57'54"  
 R = 155.00'  
 T = 22.68'  
 L = 45.05'  
 E = 1.65'

**CURVE 45**  
 PI= STA. SEE PLANS  
 Δ = 16°39'06"  
 D = 36°57'54"  
 R = 155.00'  
 T = 22.68'  
 L = 45.05'  
 E = 1.65'

**CURVE 46**  
 PI= STA. SEE PLANS  
 Δ = 16°39'06"  
 D = 36°57'54"  
 R = 155.00'  
 T = 22.68'  
 L = 45.05'  
 E = 1.65'

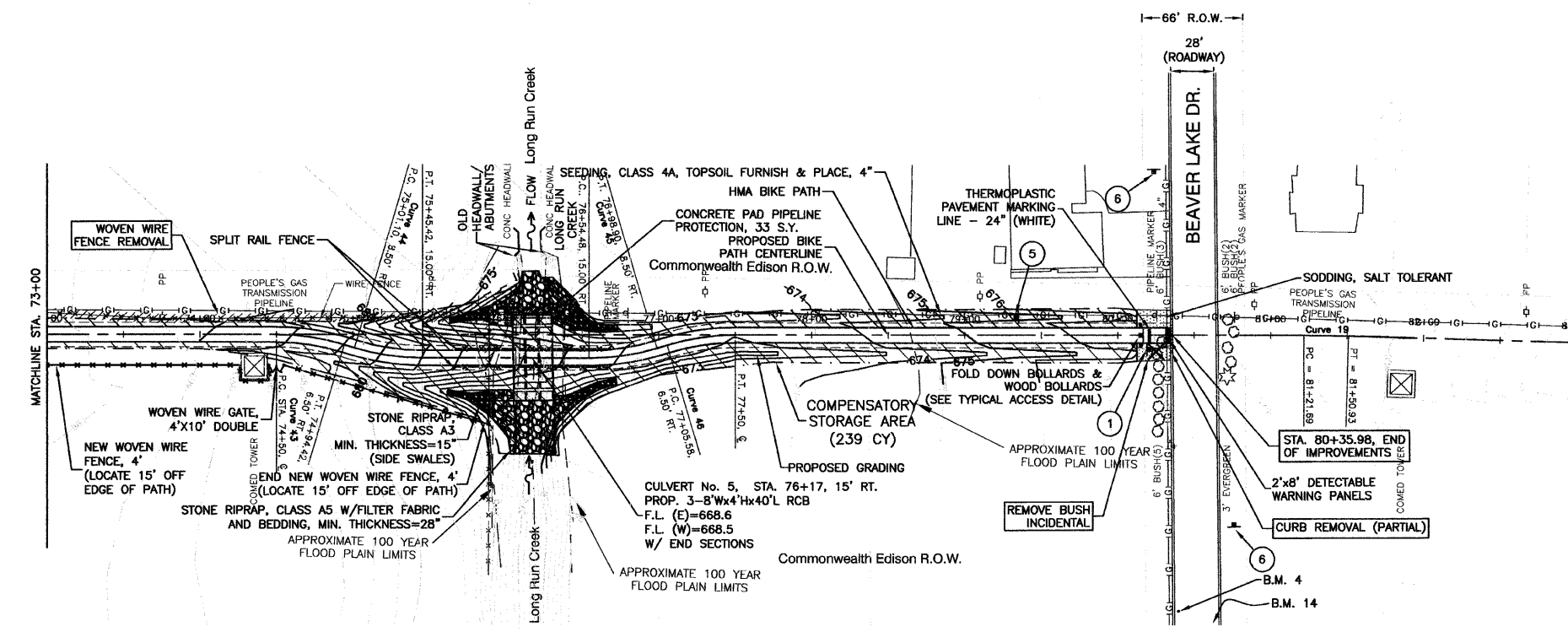
F. A. U. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	08-00008-00-BT	WILL	73	24
STA. 73+00		TO STA. 80+34.60		
FED. ROAD DIST. NO. 1	ALLIANCE	FED. AID PROJECT	CMM-0001 (673)	

CONTRACT #63440



**LEGEND:**

	SODDING/LIMITS OF GRADING
	SEEDING/LIMITS OF GRADING

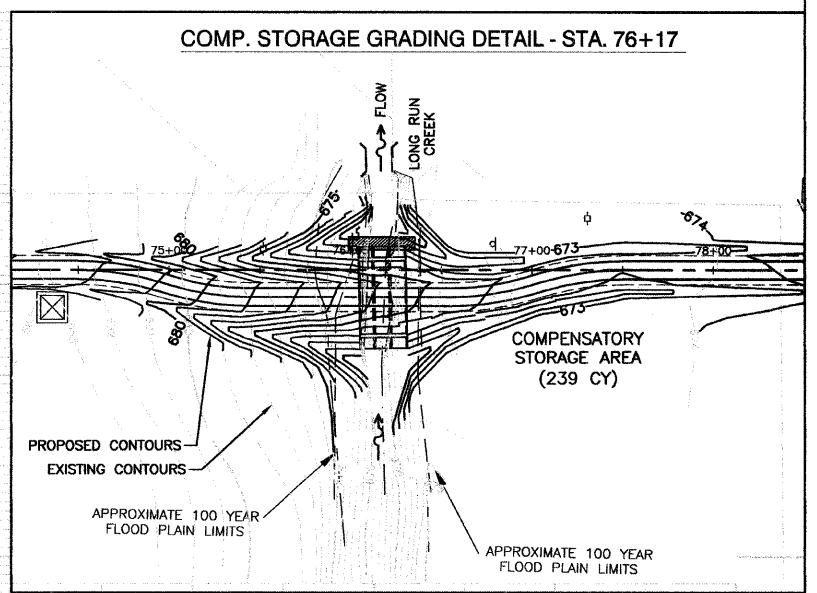
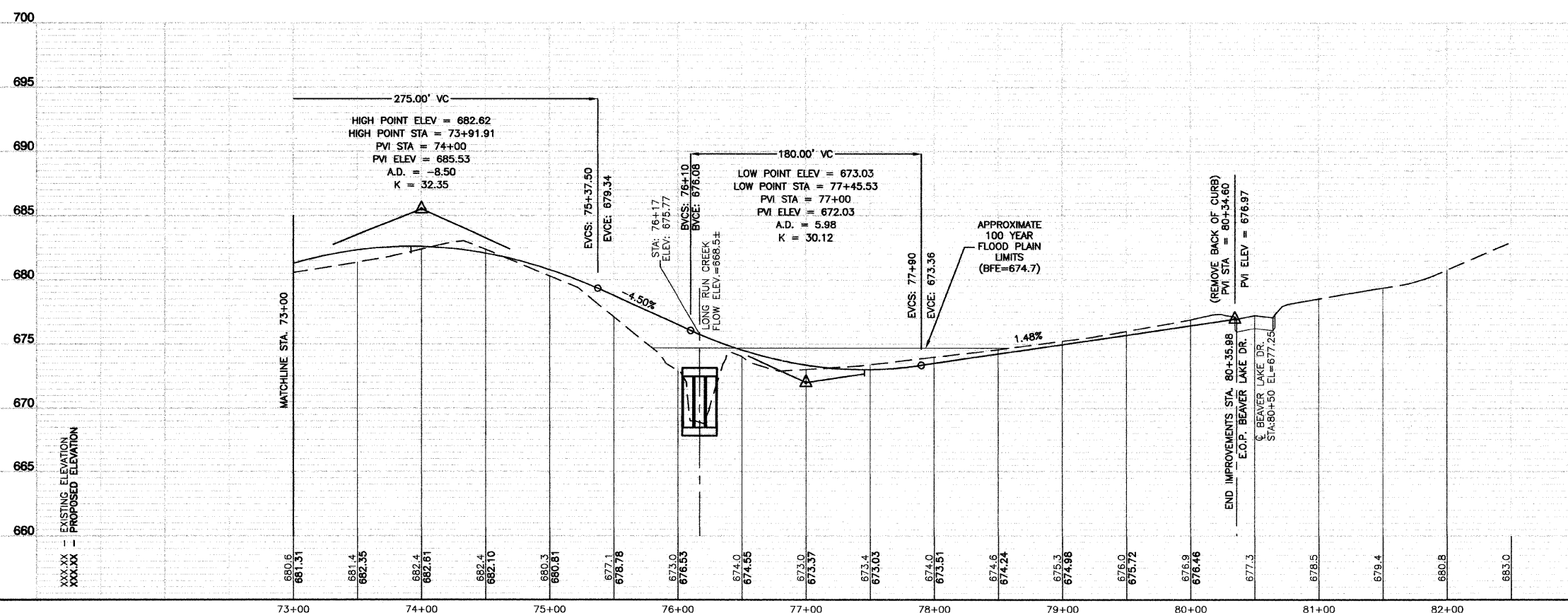
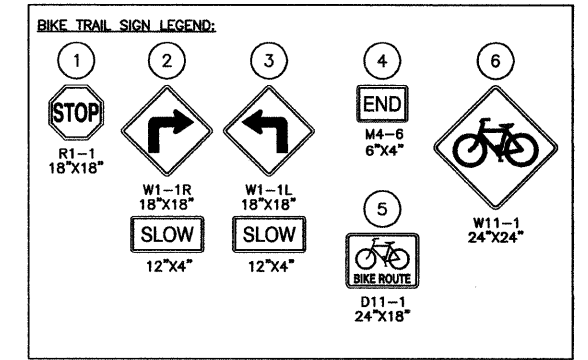


**BENCH MARK: 4**

PK NAIL ALONG BEAVER LAKE DRIVE, IN PAVEMENT, APPROXIMATELY 385' EAST OF LOST BOY LANE INTERSECTION, 2' OFF OF SOUTH EDGE OF PAVEMENT. ELEVATION = 677.80

**BENCH MARK: 14**

PK NAIL ALONG BEAVER LAKE DRIVE, IN PAVEMENT, APPROXIMATELY 1370' EAST OF LOST BOY LANE INTERSECTION. ELEVATION = 678.54



**REVISIONS**

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION PLAN & PROFILE SHEETS**  
 Pin Oak Dr. to Beaver Lake Dr.; 73+00 to STA 80+34.60

SCALE: VERT. 1"=5'  
 HORIZ. 1"=50'

DATE: FEBRUARY 2, 2010

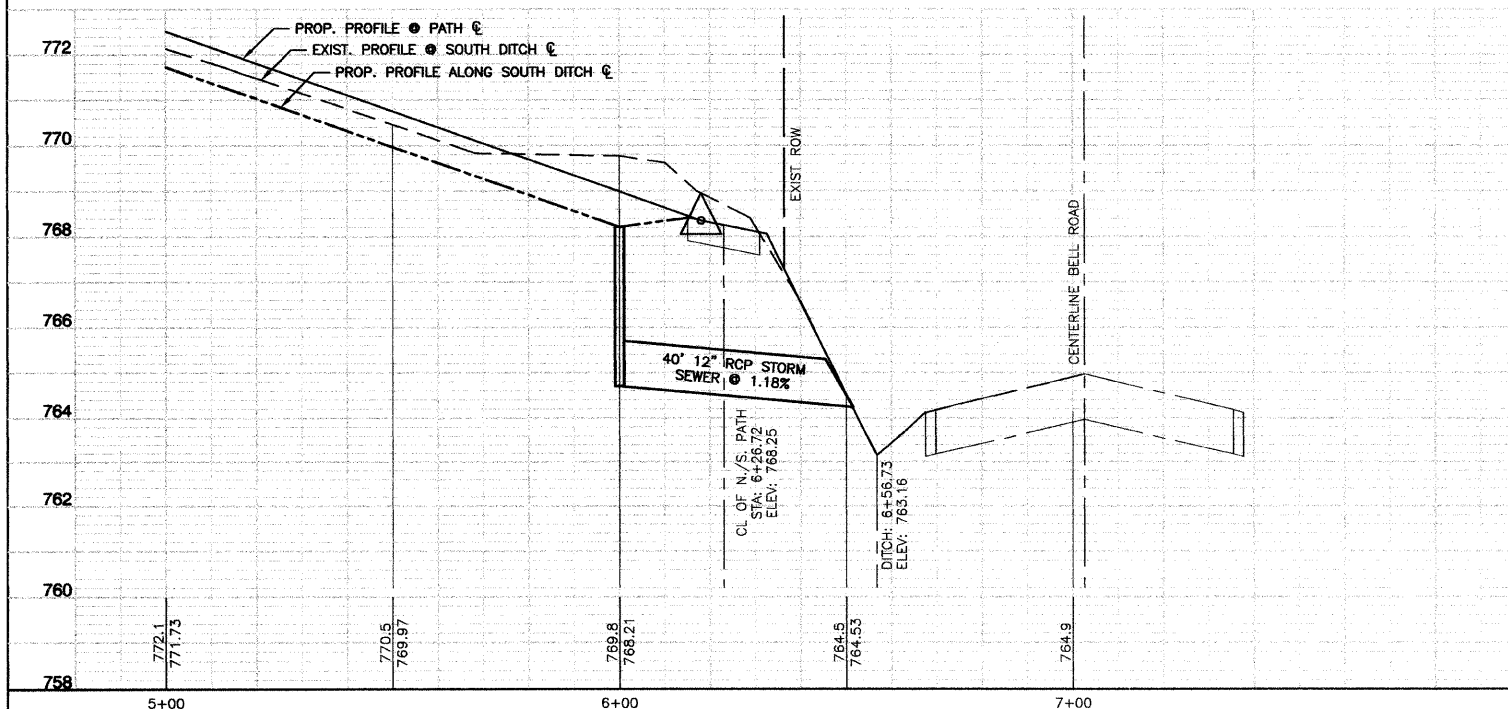
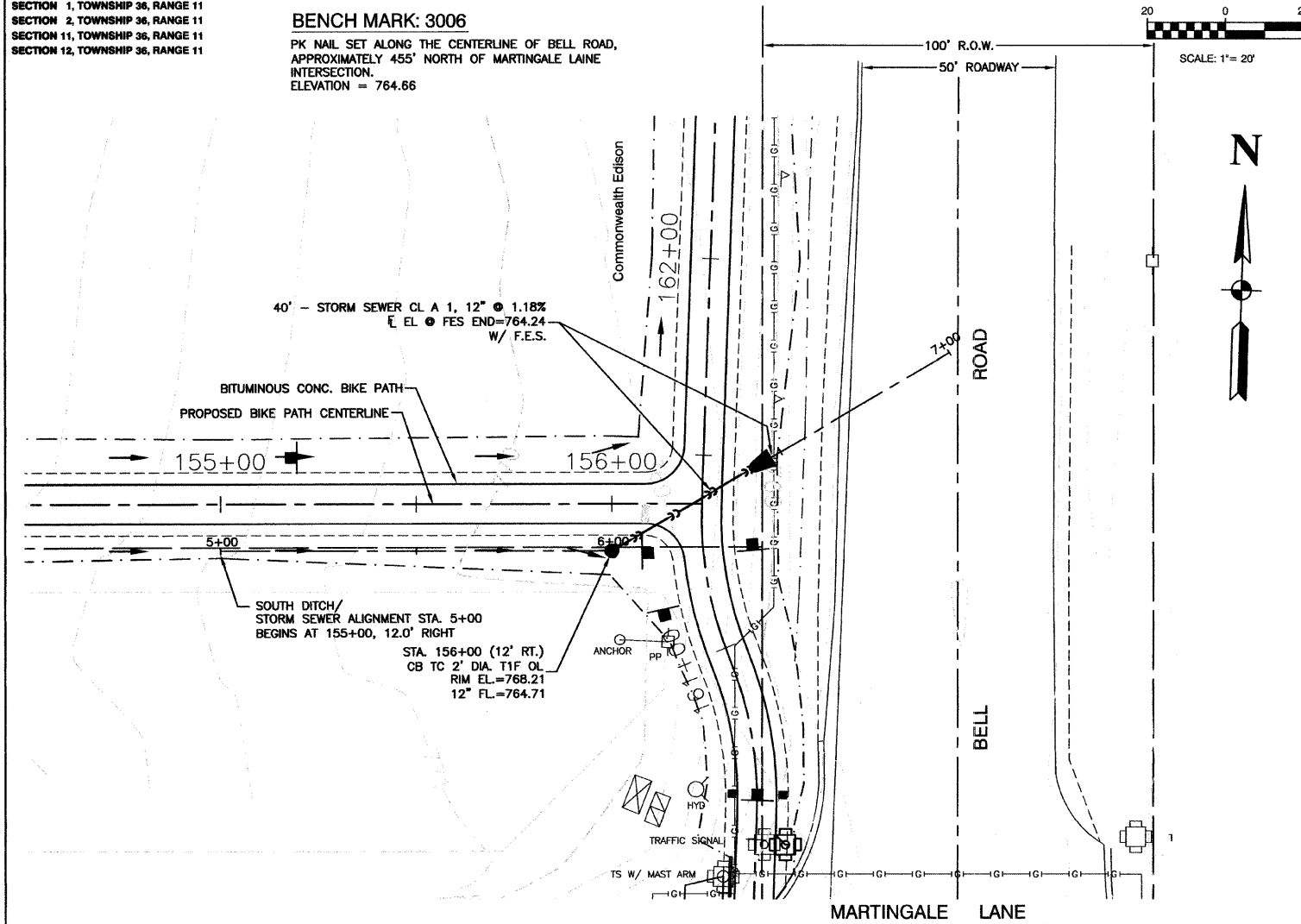
DRAWN BY: JJB  
 CHECKED BY: BDB



SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

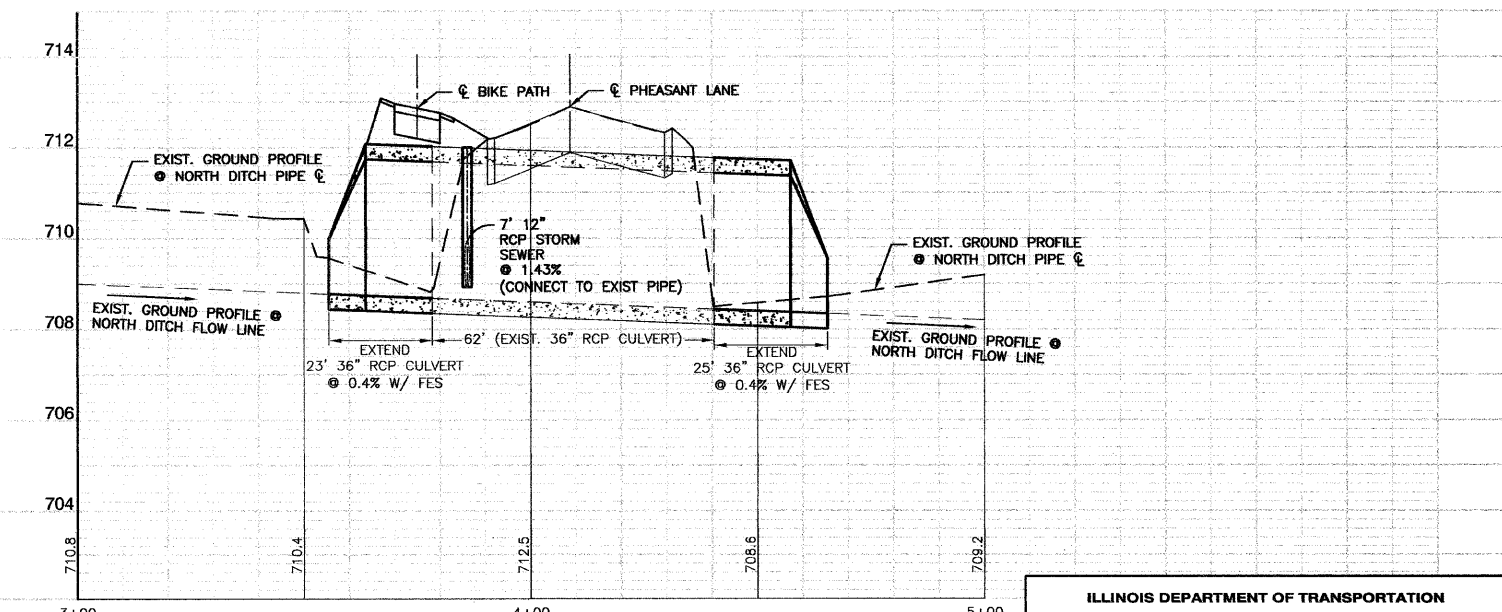
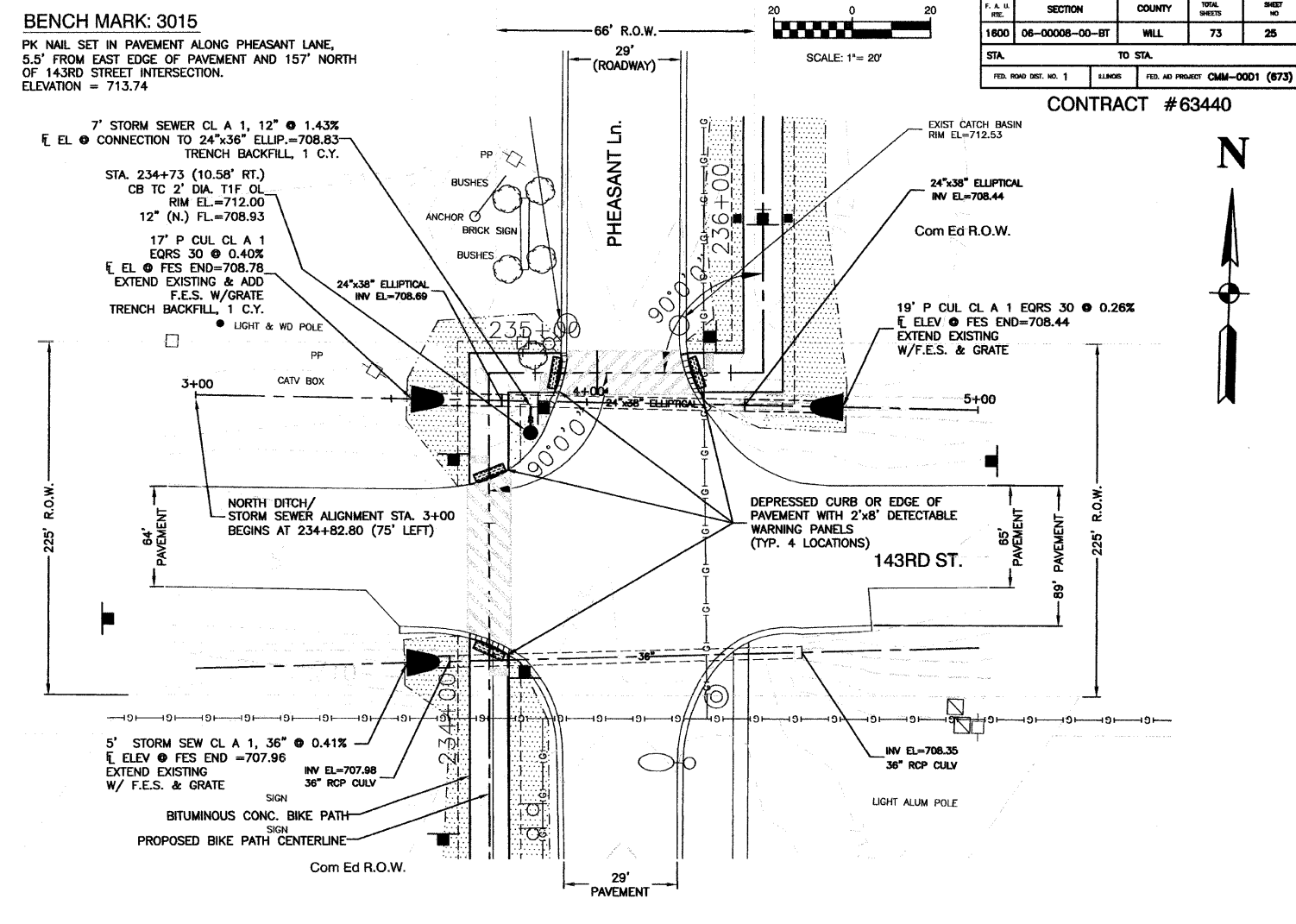
**BENCH MARK: 3006**

PK NAIL SET ALONG THE CENTERLINE OF BELL ROAD,  
 APPROXIMATELY 455' NORTH OF MARTINGALE LAINE  
 INTERSECTION.  
 ELEVATION = 764.66



**BENCH MARK: 3015**

PK NAIL SET IN PAVEMENT ALONG PHEASANT LANE,  
 5.5' FROM EAST EDGE OF PAVEMENT AND 157' NORTH  
 OF 143RD STREET INTERSECTION.  
 ELEVATION = 713.74



F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1800	06-00008-00-BT	WILL	73	25
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (673)	

**CONTRACT #63440**

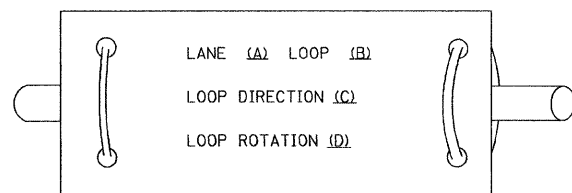
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL  
 AND EAST EXTENSION  
 DRAINAGE DETAIL PLAN & PROFILE**  
 Bell Dr. at Martingale Ln. and 143rd St. at Pheasant Ln.  
 SCALE: VERT. 1"=2'  
 HORIZ. 1"=20'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JRA  
 CHECKED BY: BDB

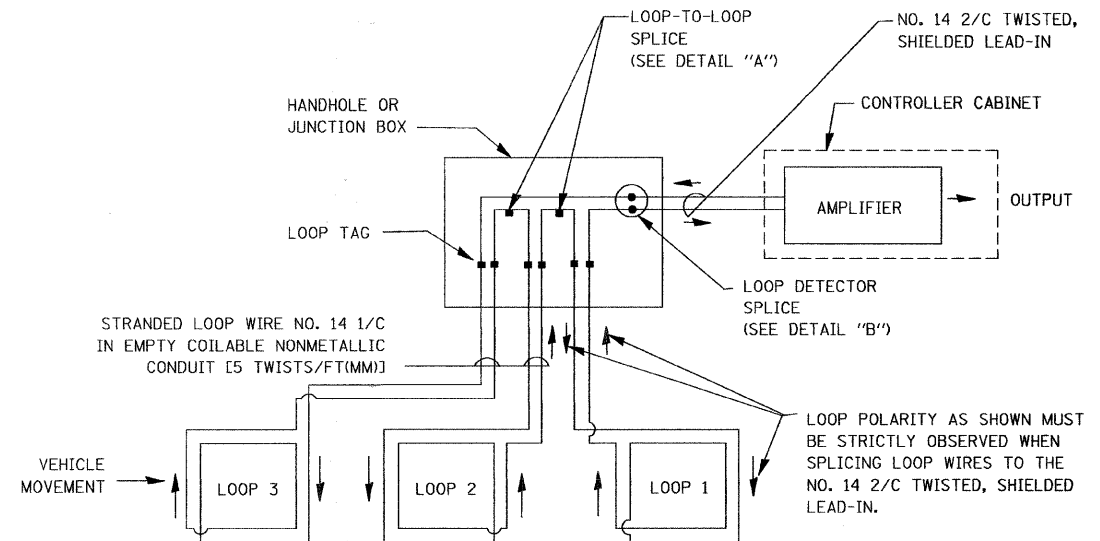
**LOOP DETECTOR NOTES**

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVESHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

**LOOP LEAD-IN CABLE TAG**

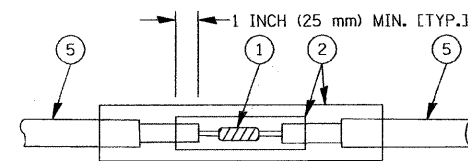


- A. LANE #1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

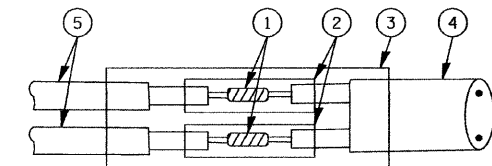


**DETECTOR LOOP WIRING SCHEMATIC**

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

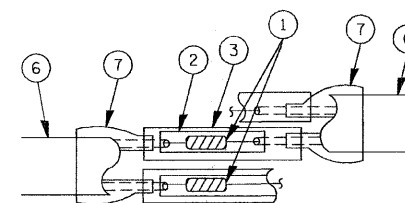


**DETAIL "A" LOOP-TO-LOOP SPLICE**

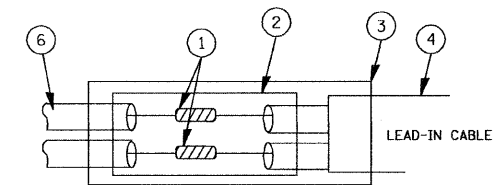


**DETAIL "B" LOOP-TO-CONTROLLER SPLICE**

**TYPE I LOOP**



**DETAIL "A" LOOP-TO-LOOP SPLICE**



**DETAIL "B" LOOP-TO-CONTROLLER SPLICE**

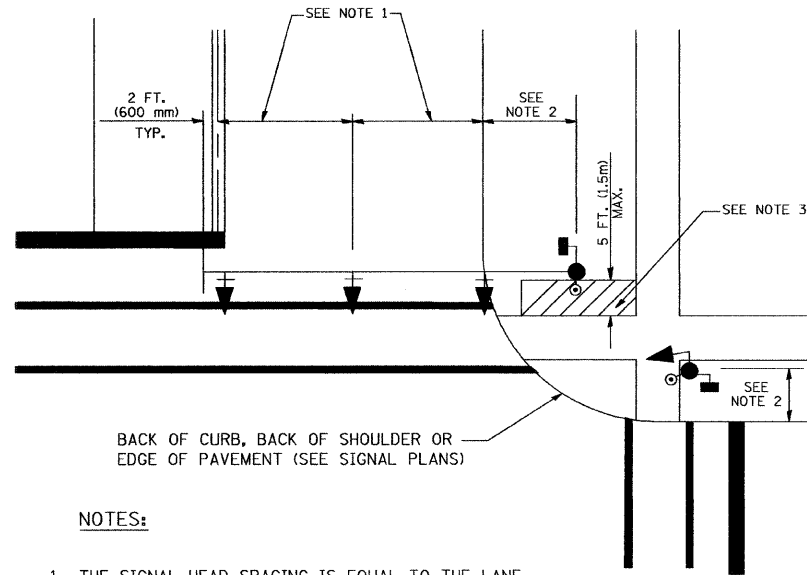
**LOOP DETECTOR SPLICE**

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME = 06231-SGNL-DTIS-01 - P01	USER NAME = bauerdl	DESIGNED -- DAD	REVISED --	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 5/8" = 1" / IN.	CHECKED -- BCK	REVISED --		1600	06-0008-00-BT	WILL	73	26			
	PLOT DATE = 11/4/2009	DRAWN -- DAD	REVISED --		SCALE: NONE SHEET NO. 1 OF 6 SHEETS STA. TO STA.			<b>TS-05</b>		CONTRACT NO. 63440		
		CHECKED -- 10-28-09	REVISED --		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-0001 (673)							

**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST**

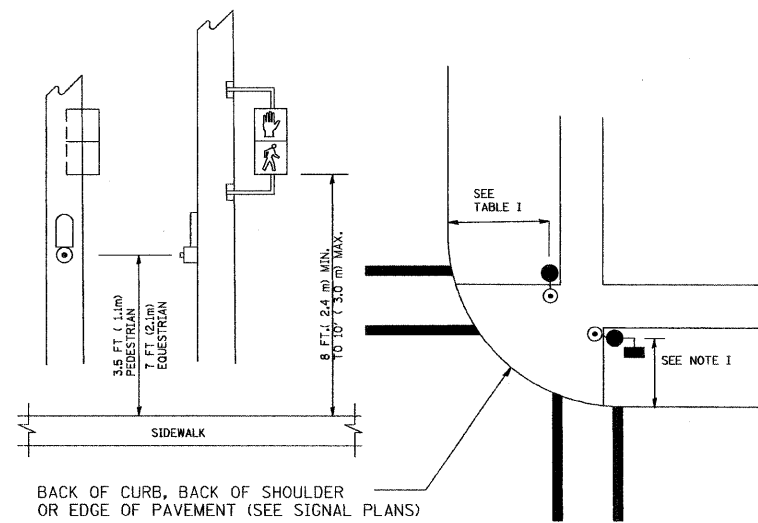
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



**NOTES:**

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

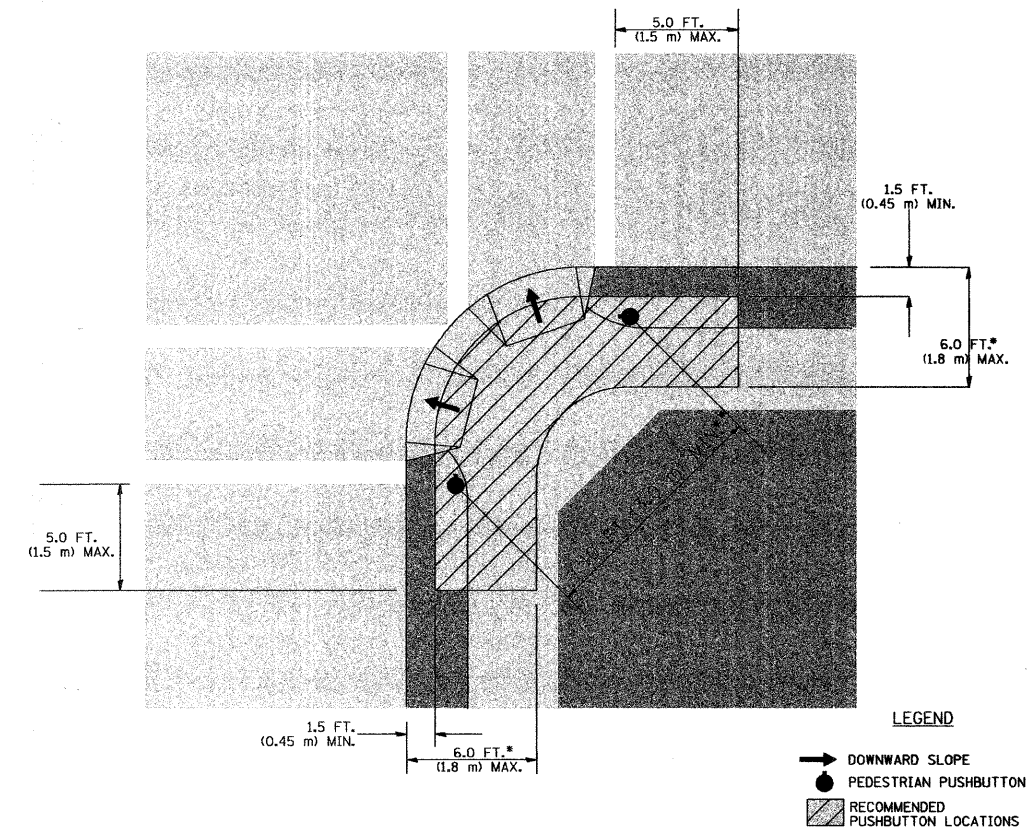
**PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

**RECOMMENDED PUSHBUTTON LOCATIONS**



- \* WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- \*\* WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

**NOTES:**

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

**TRAFFIC SIGNAL EQUIPMENT OFFSET**

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

**NOTES:**

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

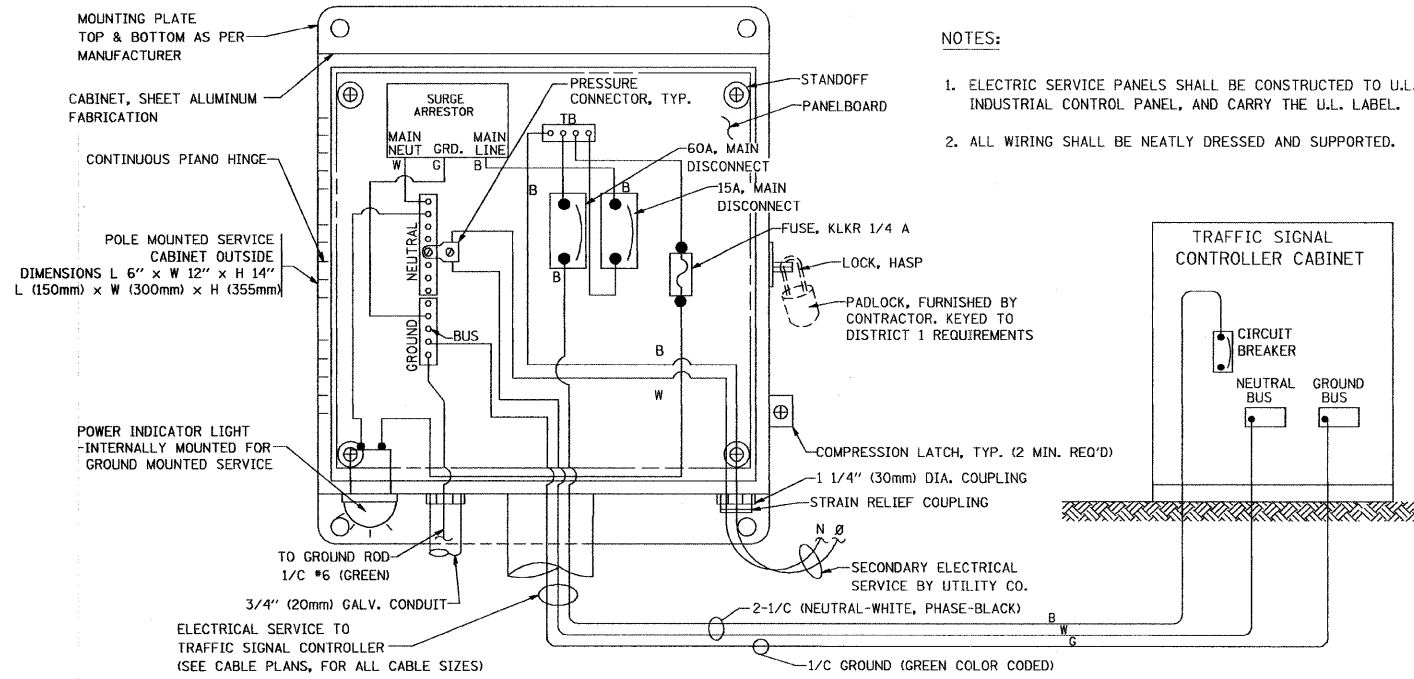
FILE NAME = 06231-SGNL-07L5-01 - P02

USER NAME = bauerdl	DESIGNED -- DAD	REVISED --
	CHECKED -- BCK	REVISED --
PLOT SCALE = 5/8" = 1' IN.	DRAWN -- DAD	REVISED --
PLOT DATE = 11/4/2009	CHECKED -- 10-28-09	REVISED --

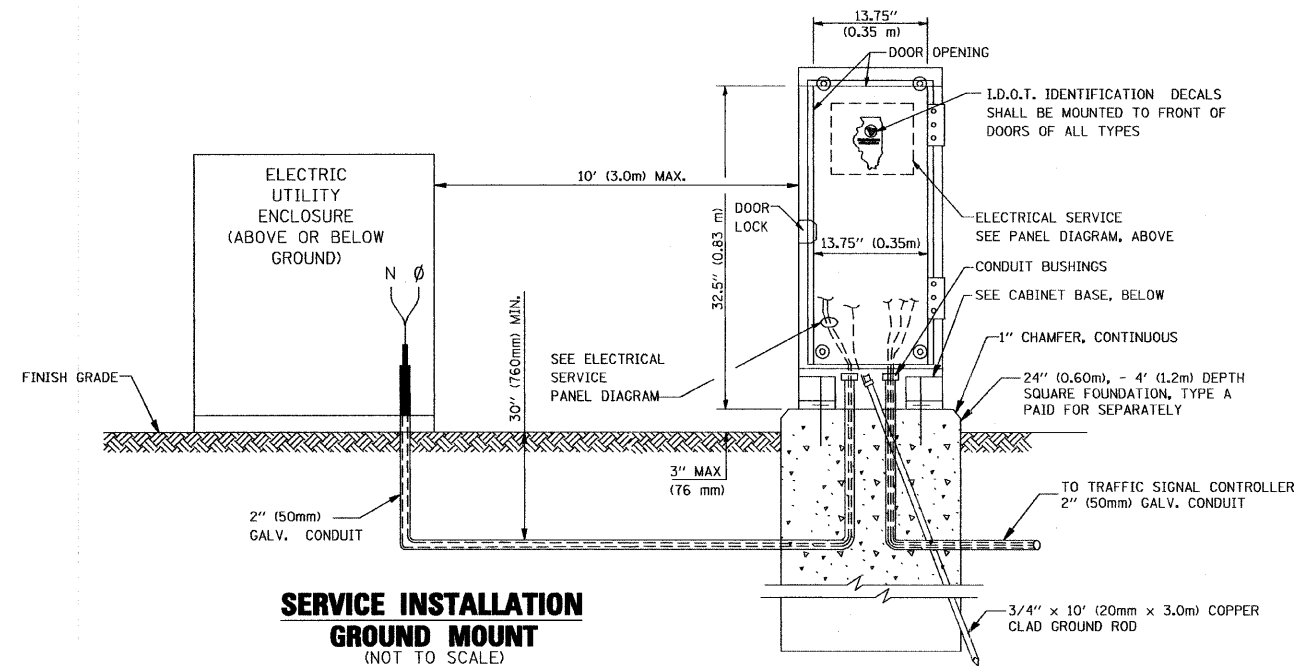
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET NO. 2 OF 6 SHEETS	STA. TO STA.	

F.A.U. RTE. 1600	SECTION 06-00008-00-BT	COUNTY WILL	TOTAL SHEETS 73	SHEET NO. 27
TS-05			CONTRACT NO. 63440	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-0001 (673)				

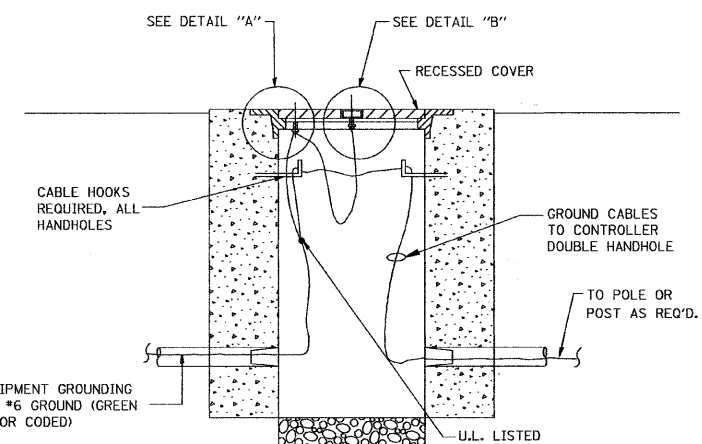
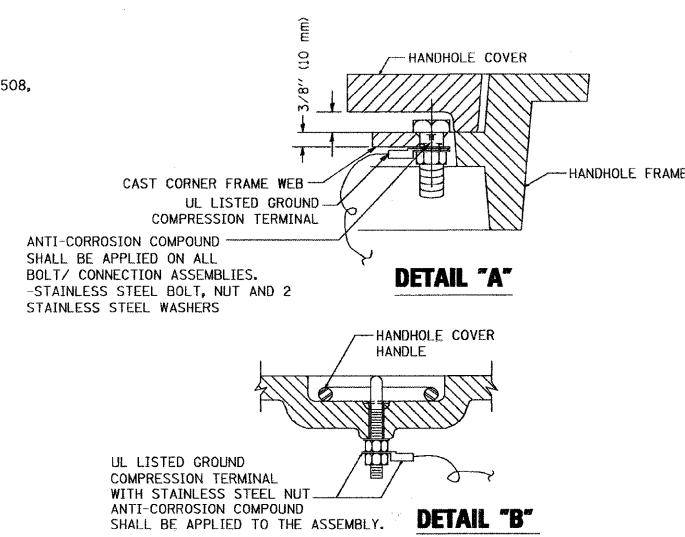
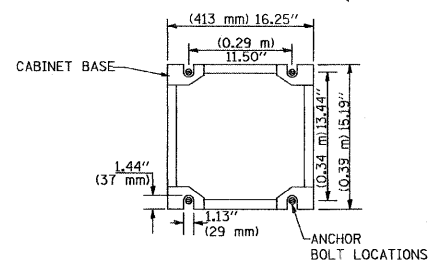


**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**  
**SERVICE INSTALLATION POLE MOUNT (SHOWN)**  
 (NOT TO SCALE)

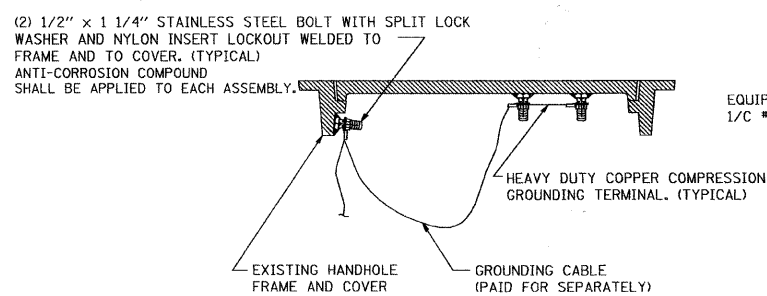


**SERVICE INSTALLATION GROUND MOUNT**  
 (NOT TO SCALE)

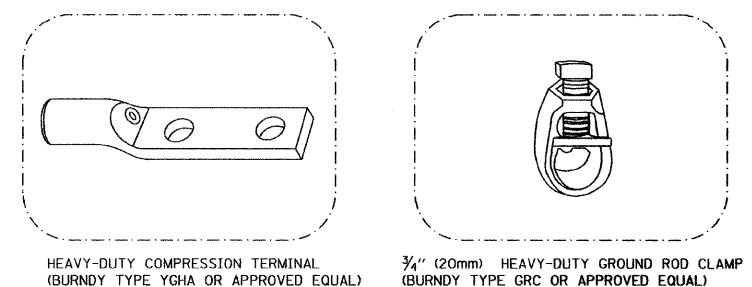
**CABINET - BASE BOLT PATTERN**  
 (NOT TO SCALE)



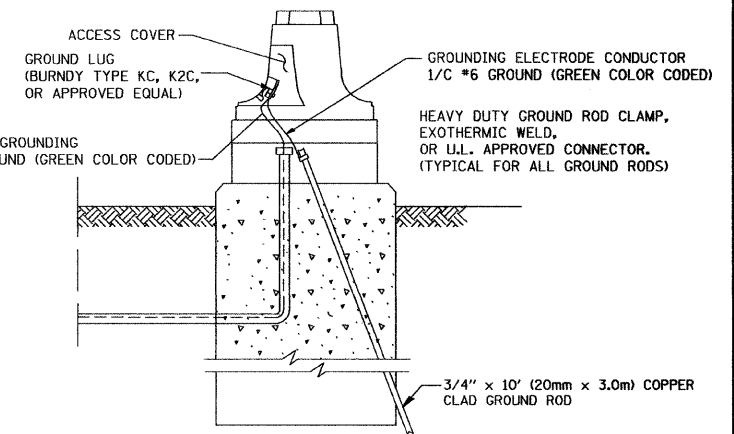
**HANDHOLE COVER & FRAME - GROUNDING DETAIL**  
 (NOT TO SCALE)



**EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL**  
 (NOT TO SCALE)



- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
  - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

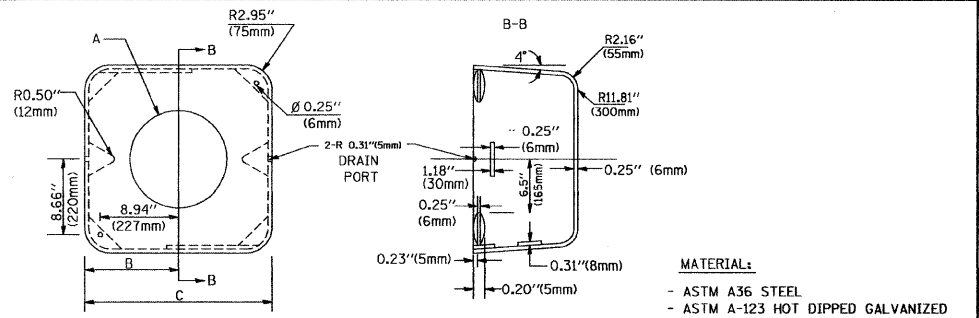
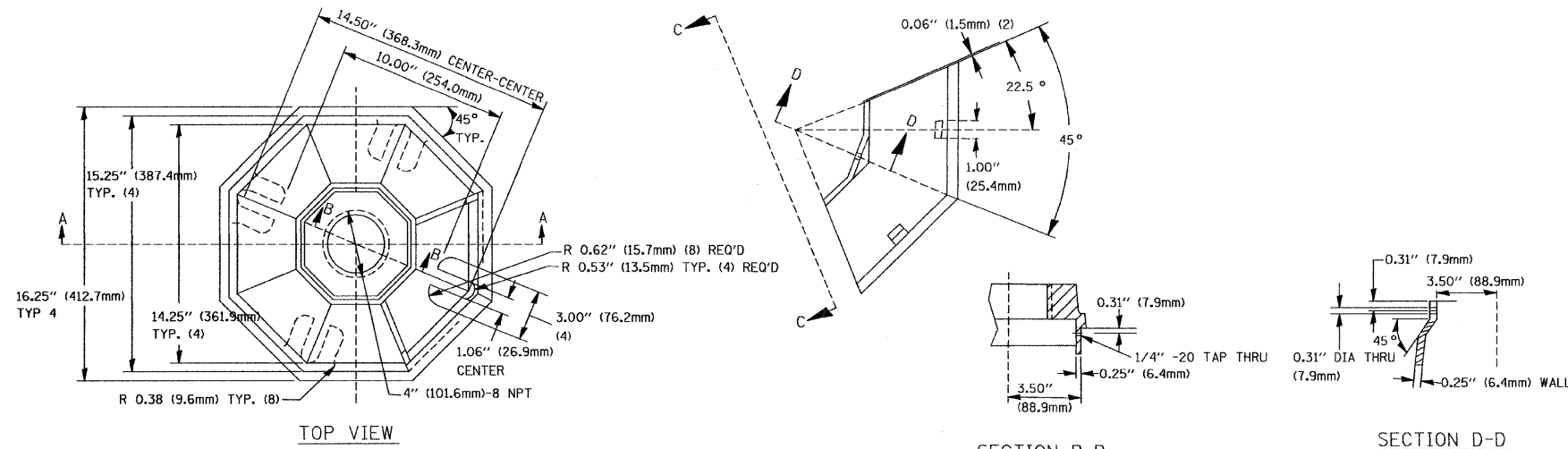


**MAST ARM POLE / POST-GROUNDING DETAIL**  
 (NOT TO SCALE)

**NOTES:**

**GROUNDING SYSTEM**

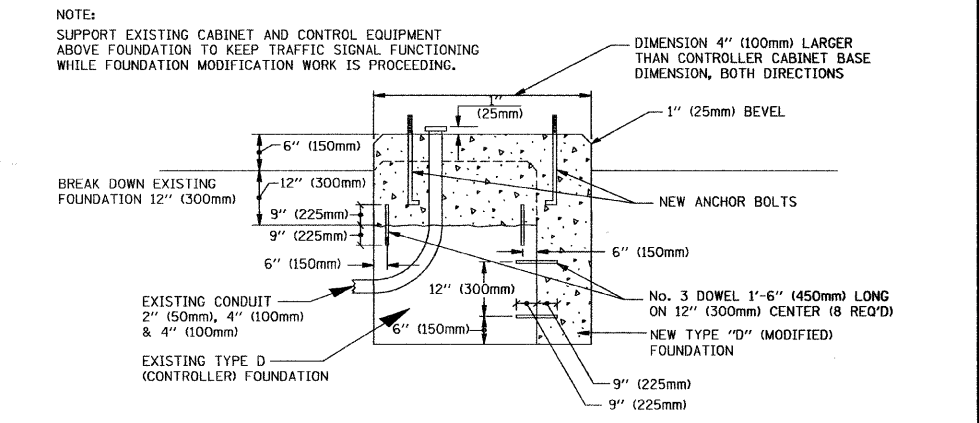
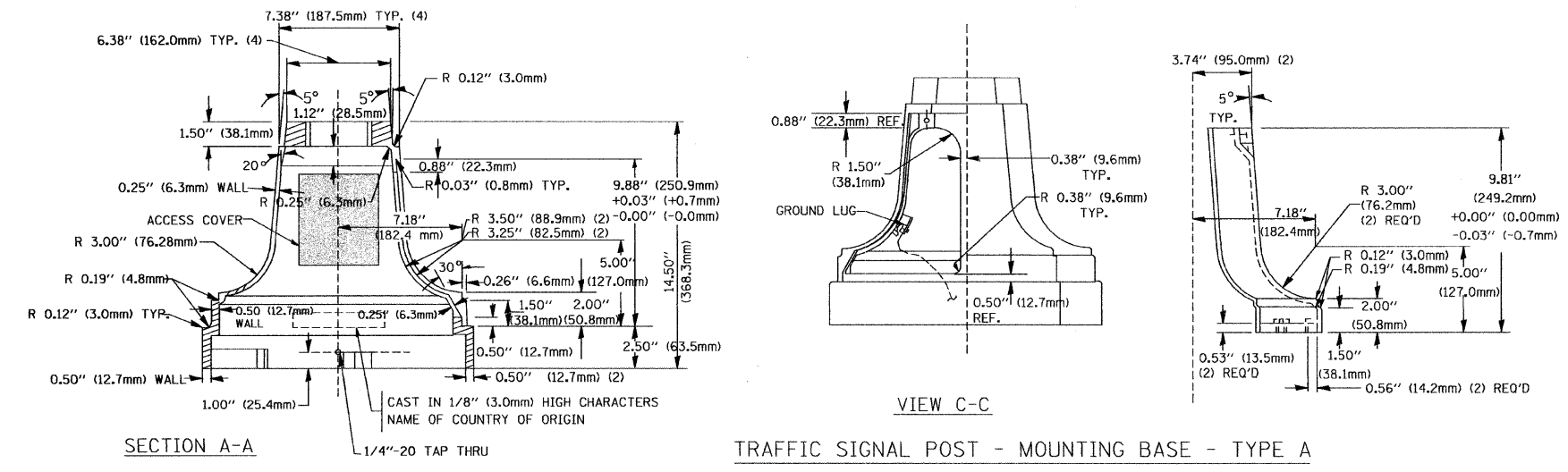
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



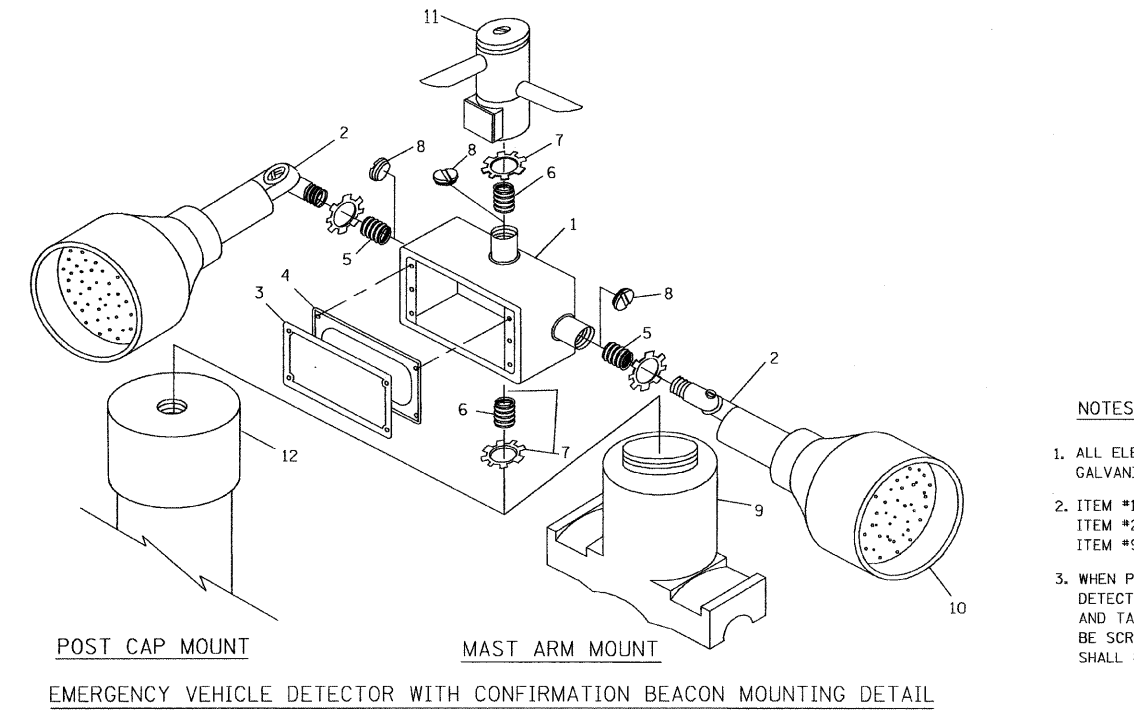
	A	B	C	HEIGHT	WEIGHT
	VARIABLES	9.5\" (241mm)	19\" (483mm)	7\" (178mm) - 12\" (300mm)	53 lbs (24kg)
	VARIABLES	10.75\" (273mm)	21.5\" (546mm)	7\" (178mm) - 12\" (300mm)	68 lbs (31 kg)
	VARIABLES	13.0\" (330mm)	26\" (660mm)	7\" (178mm) - 12\" (300mm)	81 lbs (37 kg)
	VARIABLES	18.5\" (470mm)	37\" (940mm)	7\" (178mm) - 12\" (300mm)	126 lbs (57 kg)

**SHROUD**

- NOTES:**
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
  2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
  3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

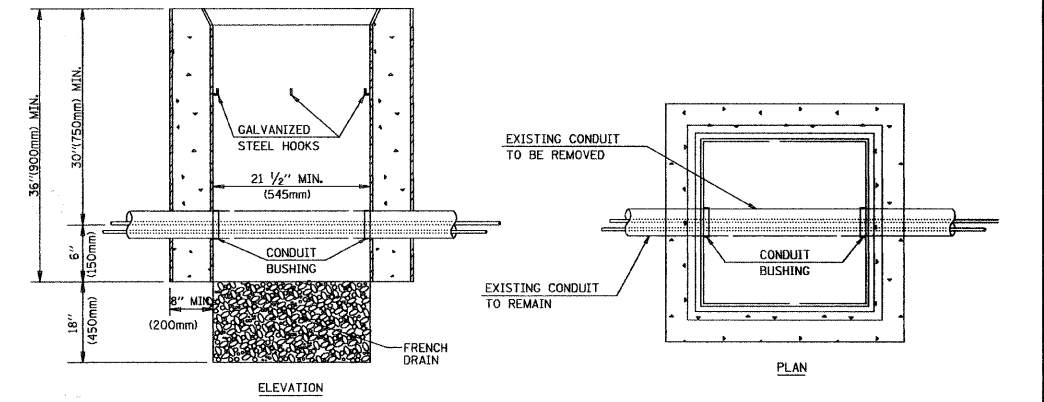


**MODIFY EXISTING TYPE "D" FOUNDATION**



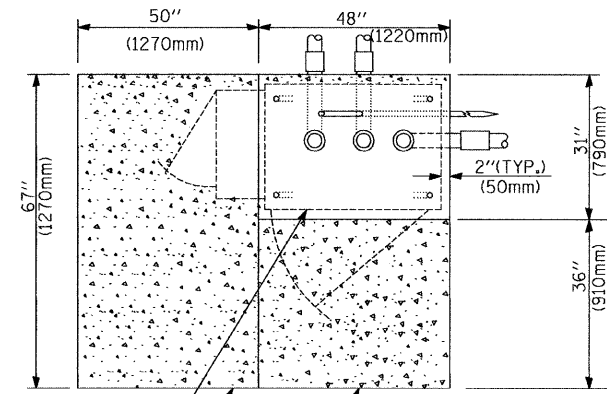
ITEM NO.	IDENTIFICATION
1	OUTLET BOX - GALV. 21 CU. IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4\" (19 mm) CLOSE NIPPLE
7	3/4\" (19 mm) LOCKNUT
8	3/4\" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

- NOTES:**
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
  2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT  
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
  3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4\" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.

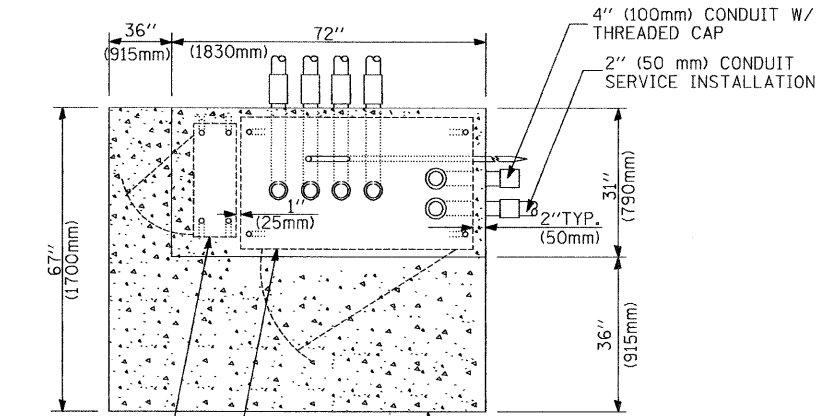


- NOTES:**
1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
  2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

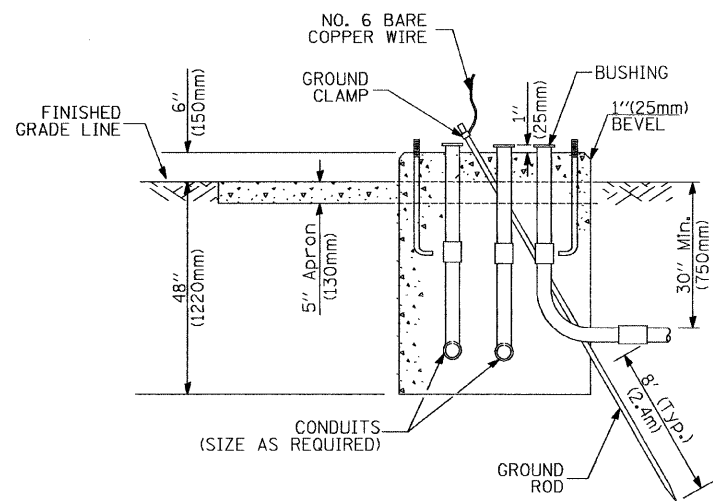
**HANDHOLE TO INTERCEPT EXISTING CONDUIT**



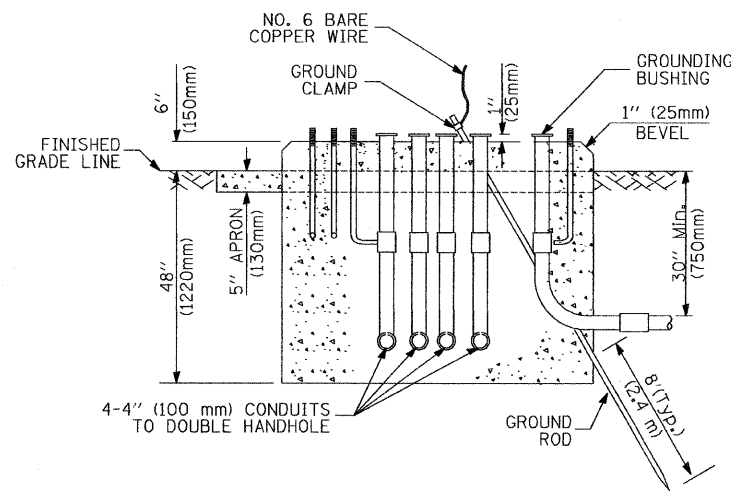
CONTROLLER CABINET BASE  
EXISTING APRON  
PROPOSED APRON  
TOP VIEW



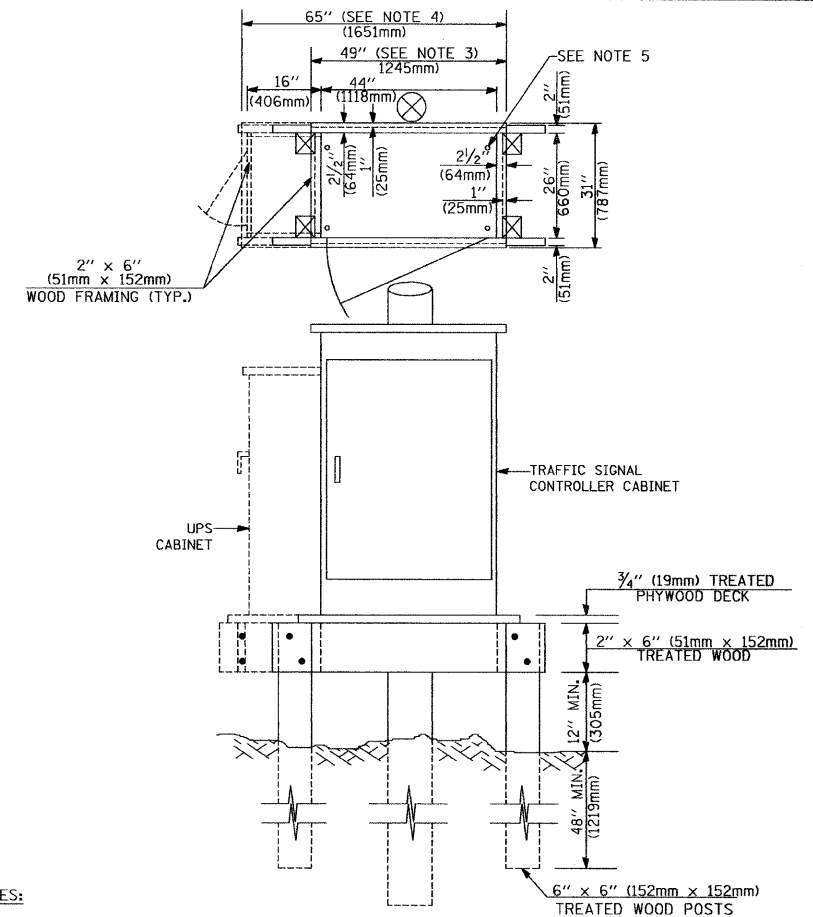
UPS CABINET BASE  
CONTROLLER CABINET BASE  
APRON  
TOP VIEW



TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET



TYPE C  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET



NOTES:

- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0-H	6.0-H
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 56' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength ( $q_u$ ) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
- Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
- For mast arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME = 06231-SGNL-DTL01 - P05

USER NAME = bauerdl	DESIGNED -- DAG	REVISED --
	CHECKED -- BCK	REVISED --
PLOT SCALE = 5/8" = 1' / IN.	DRAWN -- DAD	REVISED --
PLOT DATE = 11/4/2009	CHECKED -- 10-28-09	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS  
SCALE: NONE SHEET NO. 5 OF 6 SHEETS STA. TO STA.

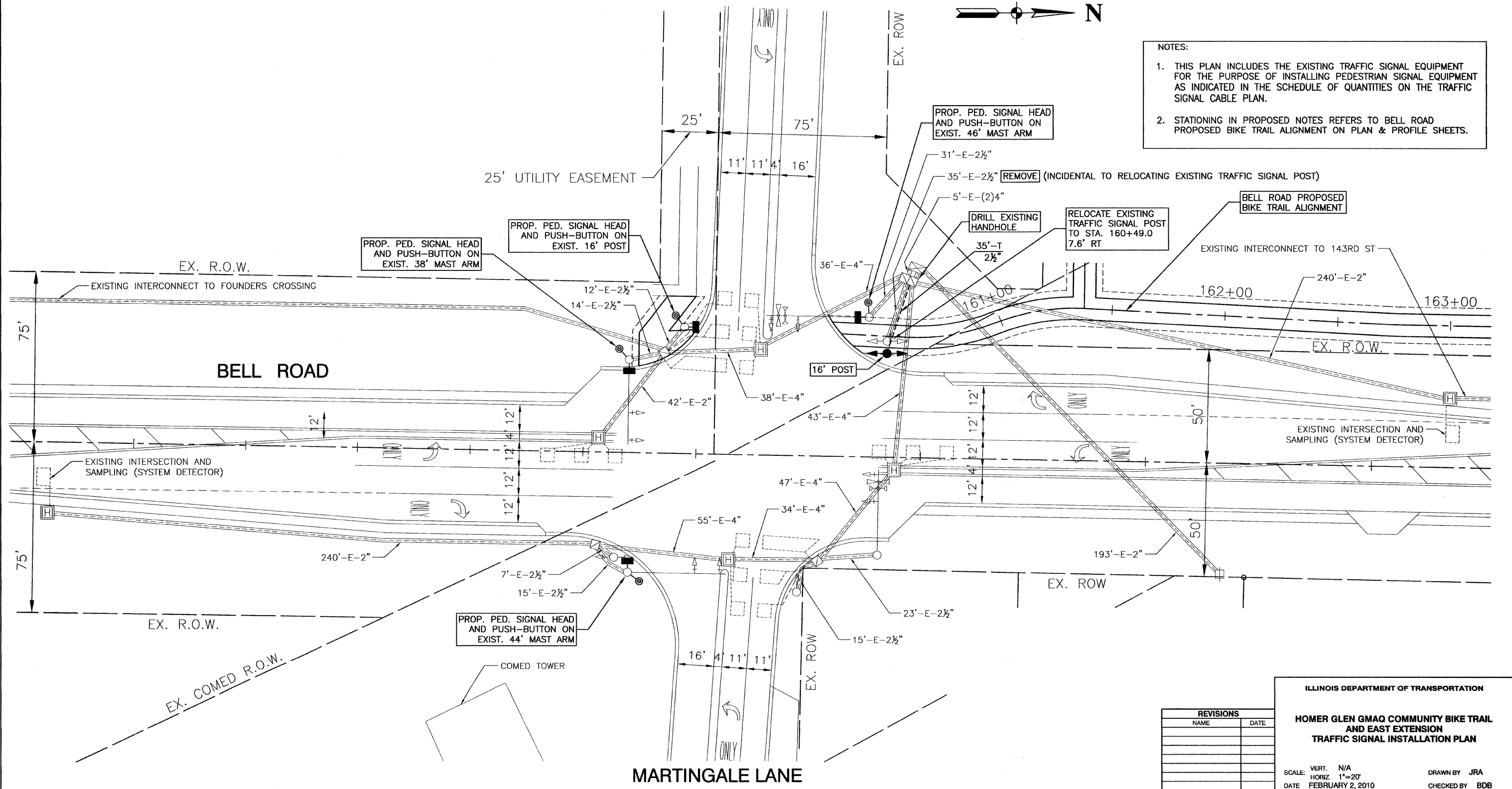
F.A.U. RTE. 1800	SECTION 06-00008-00-BT	COUNTY WILL	TOTAL SHEETS 73	SHEET NO. 30
TS-05			CONTRACT NO. 63440	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-00D1 (673)				

# TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SMI2F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F SMI2F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH			CT	GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC	CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM		S	S	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I	IP	ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM	R			STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM	RL			SIGNAL POST AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM	A			INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				<b>RAILROAD SYMBOLS</b>			
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				EXISTING		PROPOSED	
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER				RAILROAD CONTROL CABINET			
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT				RAILROAD CANTILEVER MAST ARM			
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER				FLASHING SIGNAL			
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED				CROSSING GATE			
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)				CROSSBUCK			
MICROWAVE VEHICLE SENSOR											
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

F. A. U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	32
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (673)	

CONTRACT #63440



- NOTES:
1. THIS PLAN INCLUDES THE EXISTING TRAFFIC SIGNAL EQUIPMENT FOR THE PURPOSE OF INSTALLING PEDESTRIAN SIGNAL EQUIPMENT AS INDICATED IN THE SCHEDULE OF QUANTITIES ON THE TRAFFIC SIGNAL CABLE PLAN.
  2. STATIONING IN PROPOSED NOTES REFERS TO BELL ROAD PROPOSED BIKE TRAIL ALIGNMENT ON PLAN & PROFILE SHEETS.

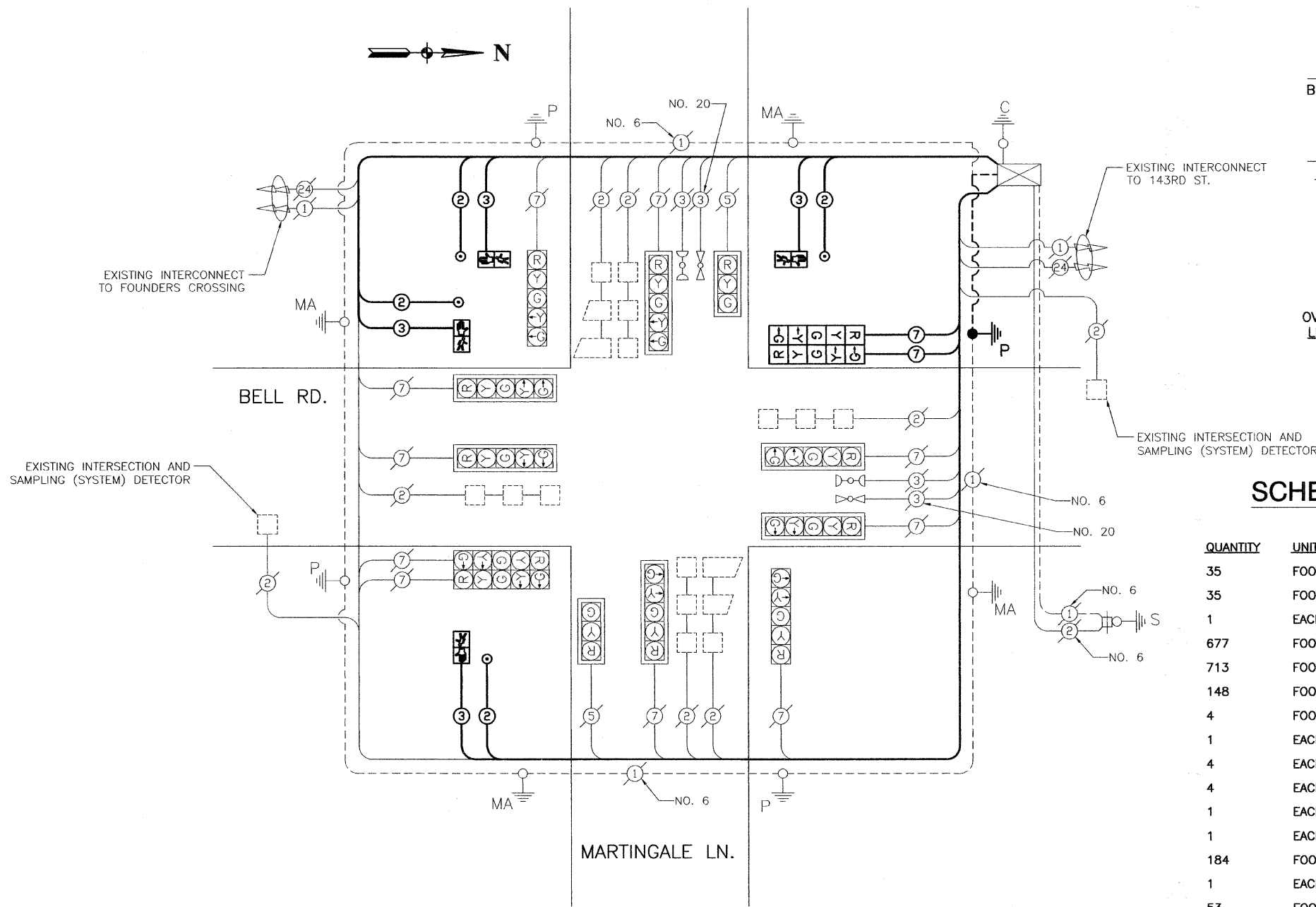
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL  
AND EAST EXTENSION  
TRAFFIC SIGNAL INSTALLATION PLAN**

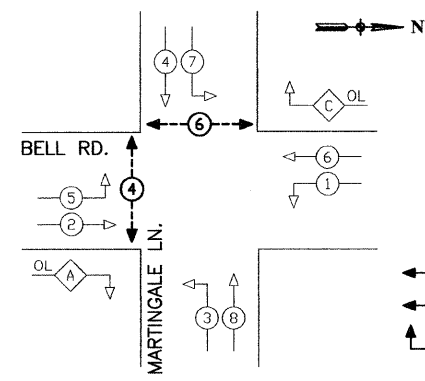
SCALE: VERT. N/A  
HORIZ. 1"=20'  
DATE: FEBRUARY 2, 2010  
DRAWN BY: JRA  
CHECKED BY: BDB



# CABLE PLAN



## CONTROLLER SEQUENCE



## PHASE DESIGNATION DIAGRAM

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
C	= 6	+ 7

## LEGEND

- ◀\*▶ DUAL ENTRY PHASE
- ◀\* SINGLE ENTRY PHASE
- ◀\*▶ OL OVERLAP
- ◀\*▶ PEDESTRIAN PHASE
- \* NUMBER REFERS TO ASSOCIATED PHASE

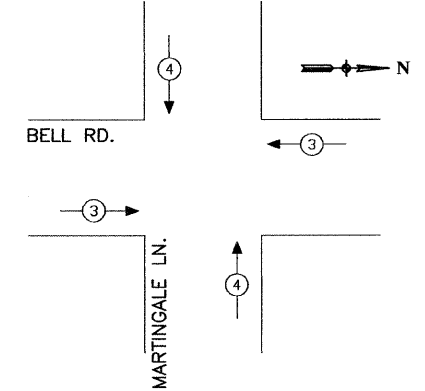
## SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM DESCRIPTION
35	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
35	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
677	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
713	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
148	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
4	FOOT	CONCRETE FOUNDATION, TYPE A
1	EACH	DRILL EXISTING HANDHOLE
4	EACH	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	RELOCATE EXISTING TRAFFIC SIGNAL POST
1	EACH	MODIFY EXISTING CONTROLLER
184	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE TRAFFIC SIGNAL POLE FOUNDATION
53	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C

## \*NOTES:

- THIS CABLE PLAN INCLUDES THE EXISTING TRAFFIC SIGNAL EQUIPMENT FOR THE PURPOSE OF INSTALLING PEDESTRIAN SIGNAL EQUIPMENT AS INDICATED IN THE SCHEDULE OF QUANTITIES.
- THE PEDESTRIAN SIGNAL EQUIPMENT INSTALLATION WILL INCREASE THE TOTAL WATTAGE FOR ELECTRICAL SERVICE FROM 388 TO 488.

## EMERGENCY VEHICLE PREEMPTION SEQUENCE



## EXISTING EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑
	→	↓

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	14	135	17	0.50	102
(YELLOW)	14	135	25	0.25	87.5
(GREEN)	14	135	15	0.25	52.5
ARROW	24	135	12	0.10	29
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
LIGHTS		250		0.25	
FLASHER				0.50	
ENERGY COSTS TO:	TOTAL =				488

WILL COUNTY DEPARTMENT OF HIGHWAYS  
18841 WEST LARAWAY ROAD  
JOLIET, IL 60433

ENERGY SUPPLY CONTACT: COM-ED BUSINESS DEPARTMENT  
PHONE: 888-639-3532  
COMPANY: COMMONWEALTH EDISON COMPANY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION TRAFFIC SIGNAL CABLE PLAN**

SCALE: VERT. N/A  
HORIZ. 1=1

DATE: FEBRUARY 2, 2010

DRAWN BY: JRA  
CHECKED BY: BDB

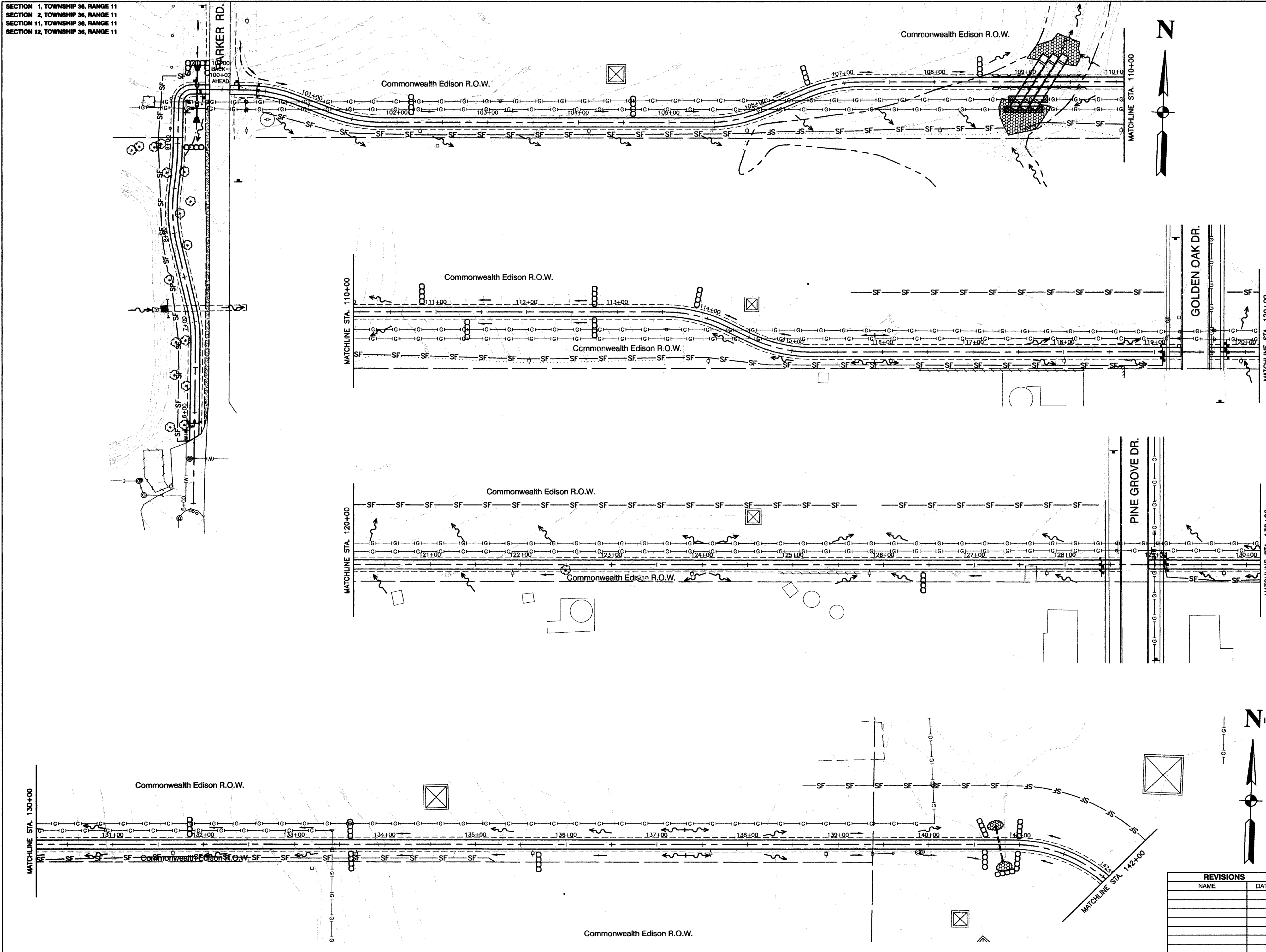
ROBINSON ENGINEERING, LTD.  
17002 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473  
(708) 381-6700 FAX (708) 381-3866  
ILLINOIS DESIGN FIRM REGISTRATION NO. 15607128

06221-SGNL-01

SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	34
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (673)	

CONTRACT #63440



KEY	ITEM NAME
—SF—	PERIMETER EROSION BARRIER TO BE PLACED AS DIRECTED
~>	FLOW DIRECTION
->	DITCH FLOW DIRECTION
->	FLOW DIRECTION LOW POINT
->	FLOW DIRECTION HIGH POINT
⊗	INLET AND PIPE PROTECTION
○○○○	TEMPORARY DITCH CHECKS
⊗	RIPRAP (SEE PLAN SHEETS)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION**  
**EROSION CONTROL PLAN**  
**Culver Park & Parker Road to Bell Road**  
 SCALE: VERT. N/A  
 HORIZ. 1"=50'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1800	06-00008-00-ST	WILL	73	35
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ALIGN.	FED. AID PROJECT	CMM-0001 (973)	

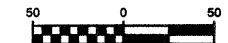
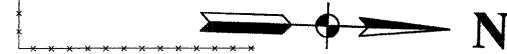
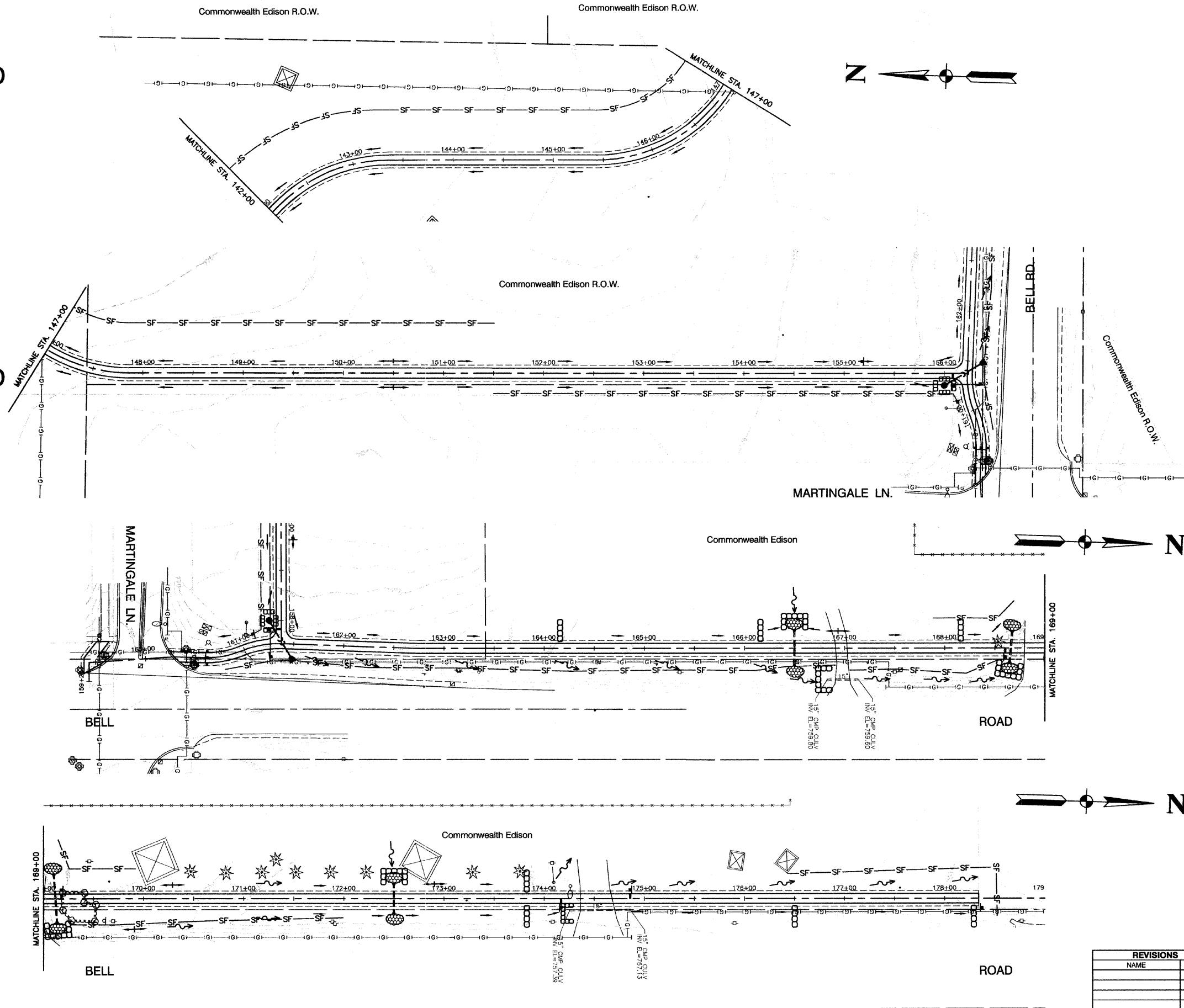
CONTRACT #63440

From:  
PARKER ROAD

From:  
PARKER ROAD

Along:  
BELL ROAD

Along:  
BELL ROAD



SCALE: 1" = 50'

KEY	ITEM NAME
—SF—	PERIMETER EROSION BARRIER TO BE PLACED AS DIRECTED
→	FLOW DIRECTION
→	DITCH FLOW DIRECTION
→	FLOW DIRECTION LOW POINT
→	FLOW DIRECTION HIGH POINT
⊠	INLET AND PIPE PROTECTION
⊞	TEMPORARY DITCH CHECKS
⊞	RIPRAP (SEE PLAN SHEETS)

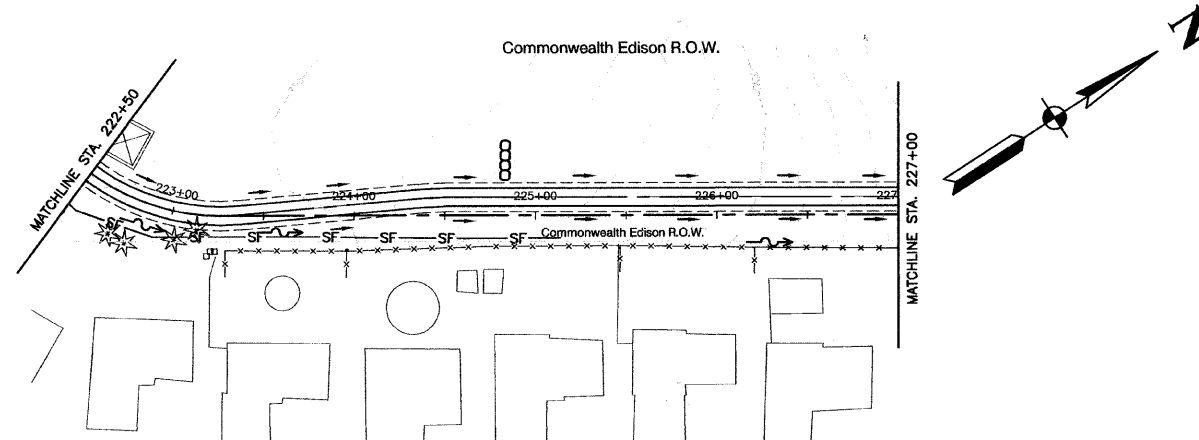
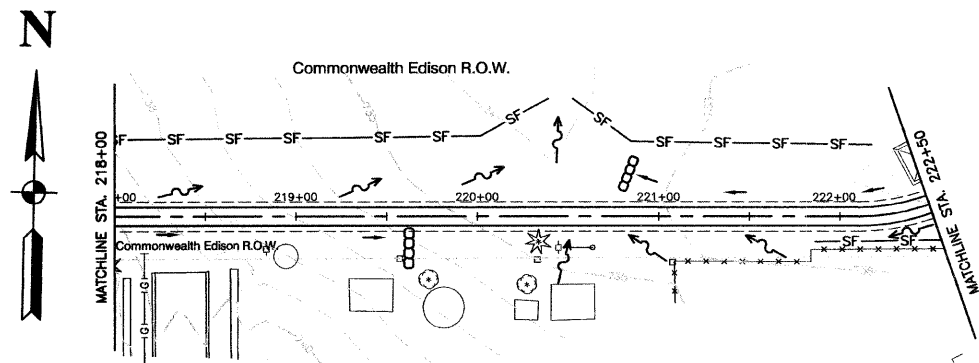
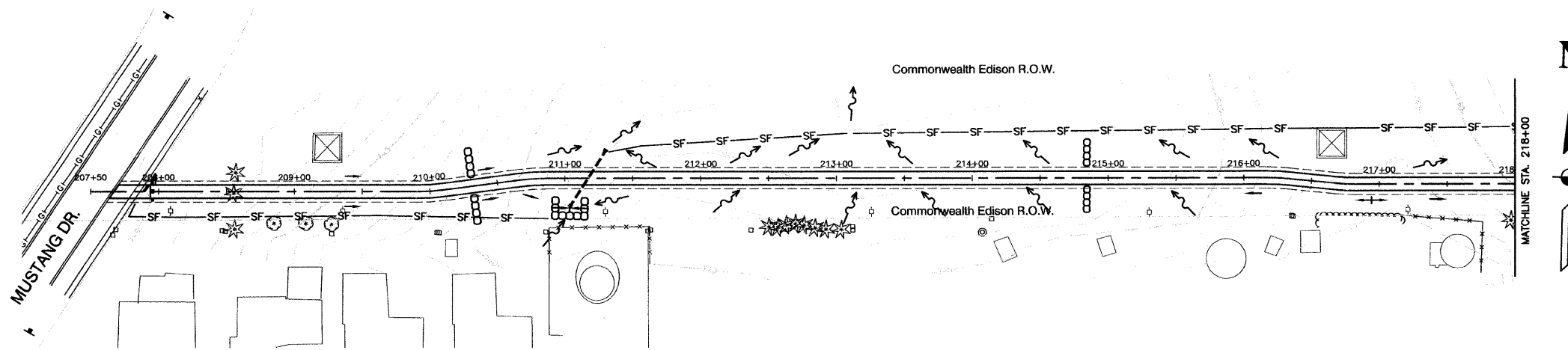
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION EROSION CONTROL PLAN**  
 Parker Road to Bell Road  
 SCALE: VERT. N/A  
 HORIZ. 1"=50'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

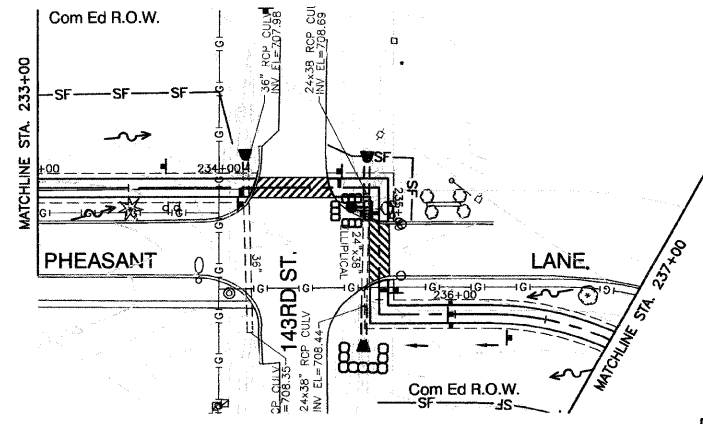
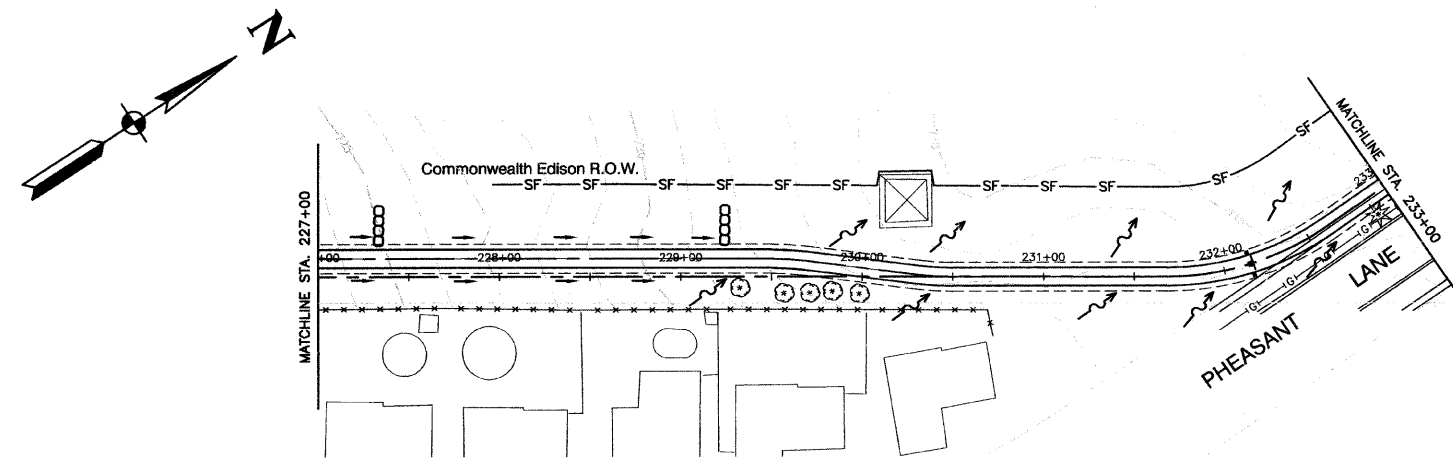
SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

F. A. U. SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1800	06-00008-00-BT	WILL	73	36
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (873)	

CONTRACT #63440



SCALE: 1" = 50'



KEY	ITEM NAME
—SF—	PERIMETER EROSION BARRIER TO BE PLACED AS DIRECTED
~>	FLOW DIRECTION
—>	DITCH FLOW DIRECTION
—+—	FLOW DIRECTION LOW POINT
—-—	FLOW DIRECTION HIGH POINT
⊗	INLET AND PIPE PROTECTION
○○○	TEMPORARY DITCH CHECKS
⊗	RIPRAP (SEE PLAN SHEETS)

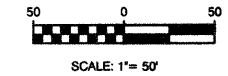
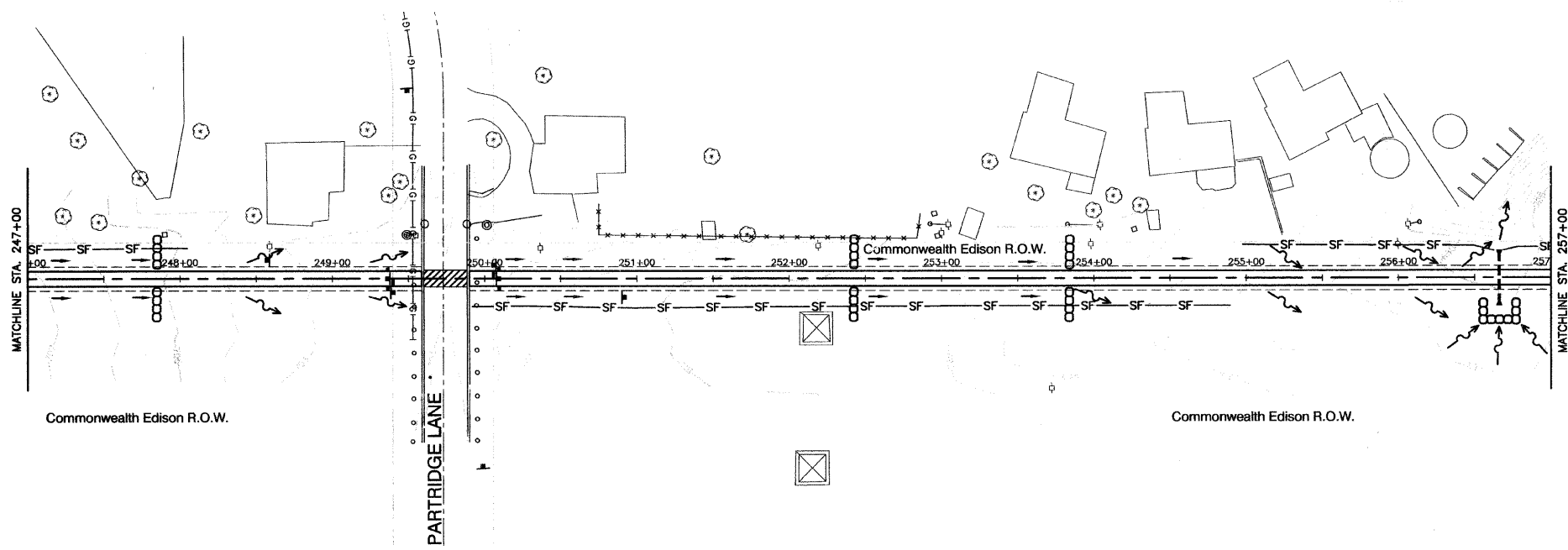
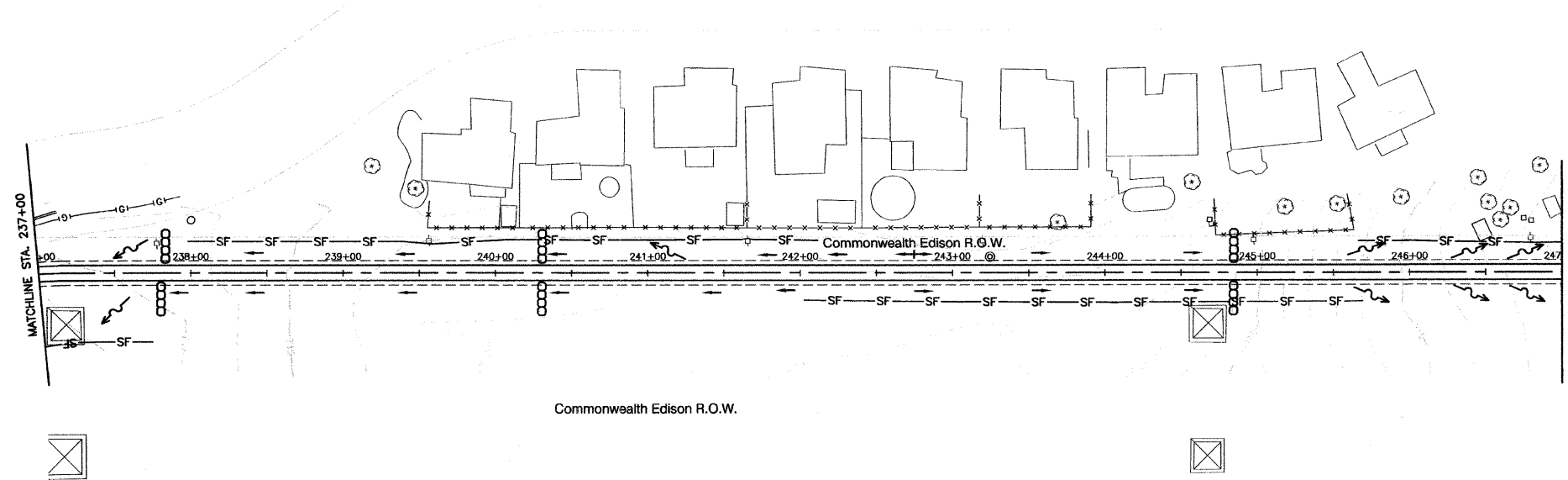
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION EROSION CONTROL PLAN**  
 Mustang Drive to Venetian Way  
 SCALE: VERT. N/A  
 HORIZ. 1" = 50'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

F. A. U. SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1800	06-00008-00-BT	WILL	73	37
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (873)	

CONTRACT #63440



KEY	ITEM NAME
—SF—	PERIMETER EROSION BARRIER TO BE PLACED AS DIRECTED
~>	FLOW DIRECTION
—>	DITCH FLOW DIRECTION
—+—	FLOW DIRECTION LOW POINT
—-—	FLOW DIRECTION HIGH POINT
⊠	INLET AND PIPE PROTECTION
○○○○	TEMPORARY DITCH CHECKS
⊞	RIPRAP (SEE PLAN SHEETS)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION EROSION CONTROL PLAN**  
 Mustang Drive to Venetian Way  
 SCALE: VERT. N/A  
 HORIZ. 1"=50'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

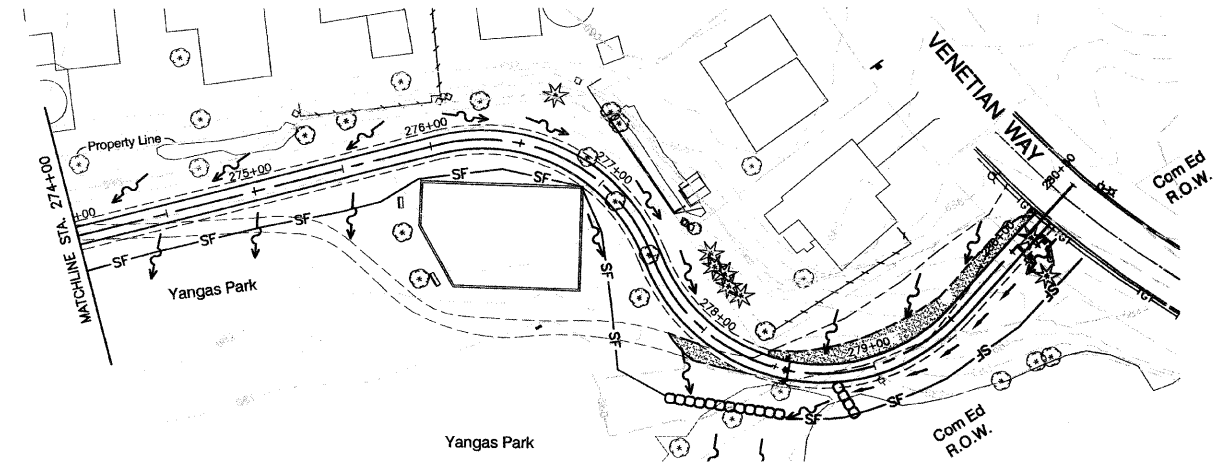
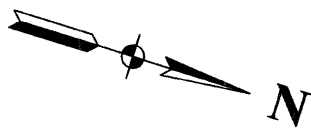
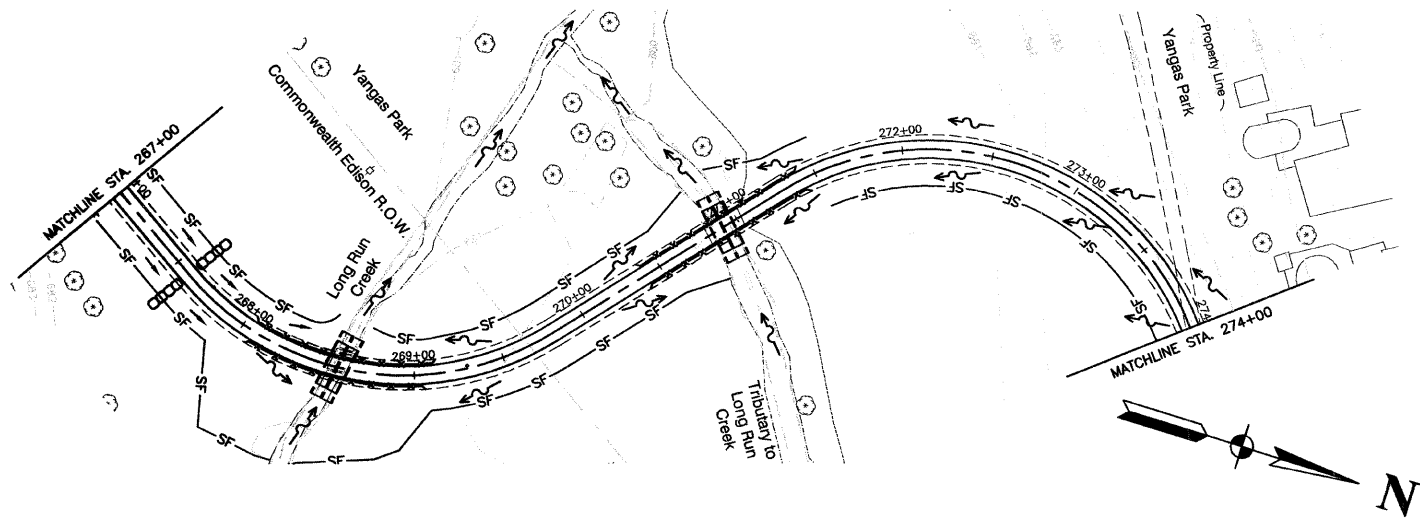
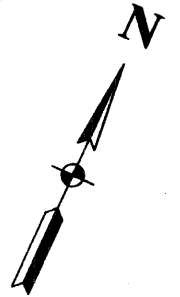
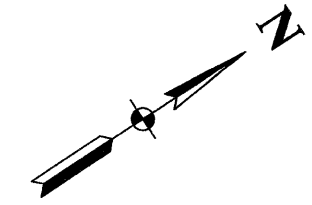
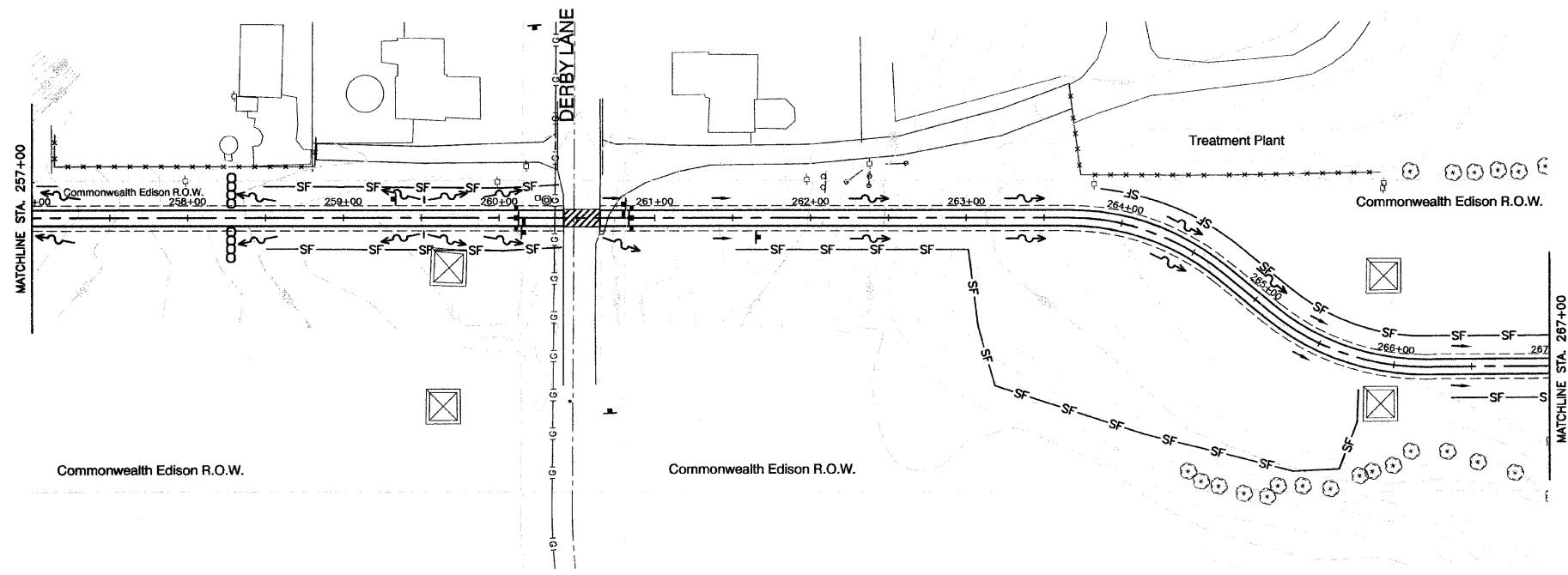
SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	38
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (873)	

CONTRACT #63440



SCALE: 1" = 50'



KEY	ITEM NAME
—SF—	PERIMETER EROSION BARRIER TO BE PLACED AS DIRECTED
~>	FLOW DIRECTION
—>	DITCH FLOW DIRECTION
—+—	FLOW DIRECTION LOW POINT
—-—	FLOW DIRECTION HIGH POINT
⊠	INLET AND PIPE PROTECTION
○○○○	TEMPORARY DITCH CHECKS
⊞	RIPRAP (SEE PLAN SHEETS)

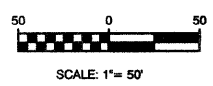
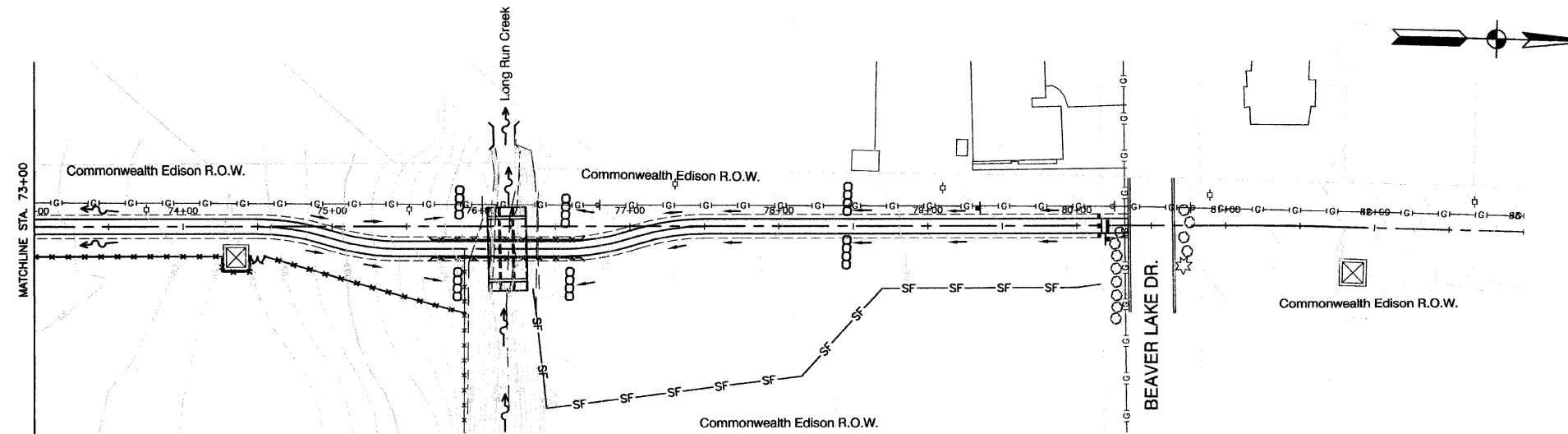
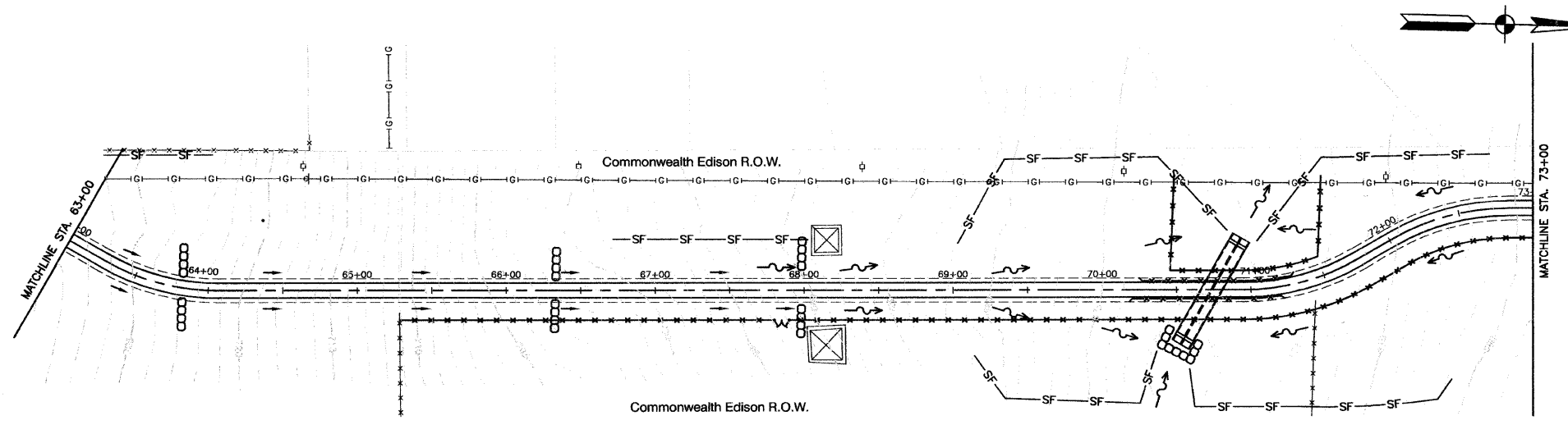
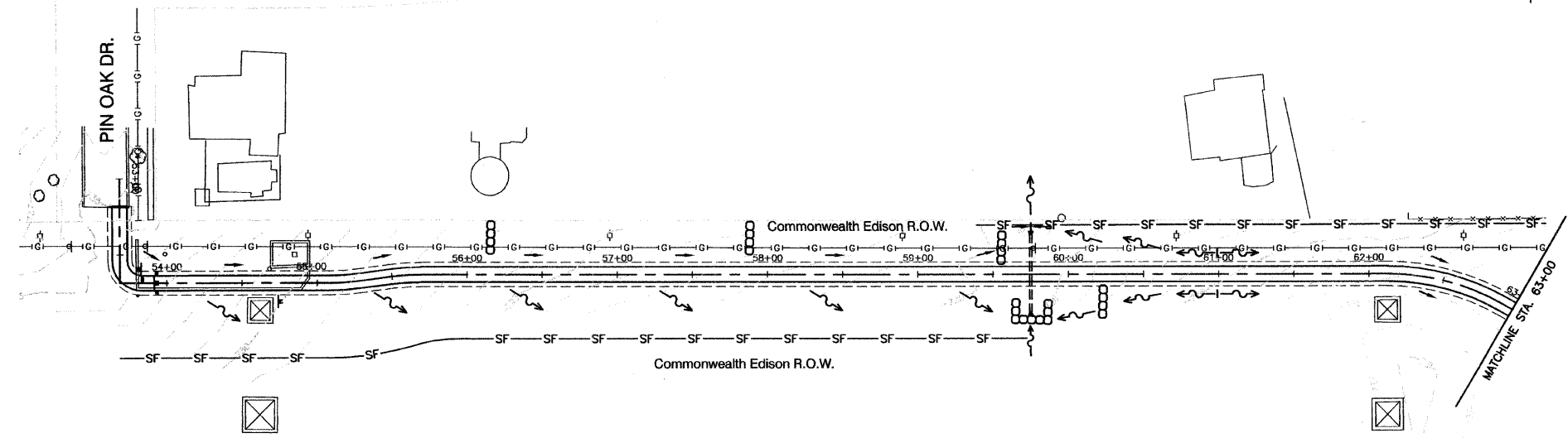
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION EROSION CONTROL PLAN**  
 Mustang Drive to Venetian Way  
 SCALE: VERT. N/A  
 HORIZ. 1" = 50'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB  
ROBINSON ENGINEERING, L.L.C.  
 1700 SOUTH PARK AVENUE, SOUTH HOLLAND, ILLINOIS 60473  
 (708) 381-0700 FAX (708) 381-0665  
 ILLINOIS DESIGN FIRM REGISTRATION NO. 18402108 06231-EROS-04-P2

SECTION 1, TOWNSHIP 36, RANGE 11  
 SECTION 2, TOWNSHIP 36, RANGE 11  
 SECTION 11, TOWNSHIP 36, RANGE 11  
 SECTION 12, TOWNSHIP 36, RANGE 11

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1800	06-00008-00-BT	WILL	73	36
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	0MM-0001 (873)	

CONTRACT #63440



KEY	ITEM NAME
—SF—	PERIMETER EROSION BARRIER TO BE PLACED AS DIRECTED
~>	FLOW DIRECTION
->	DITCH FLOW DIRECTION
—+—	FLOW DIRECTION LOW POINT
—+—	FLOW DIRECTION HIGH POINT
⊠	INLET AND PIPE PROTECTION
○○○○	TEMPORARY DITCH CHECKS
⊞	RIPRAP (SEE PLAN SHEETS)

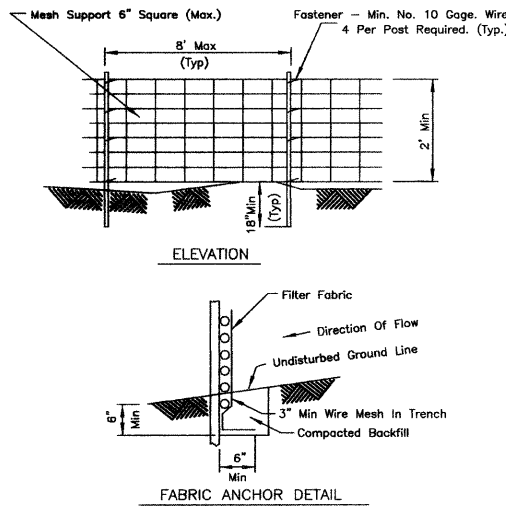
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL  
 AND EAST EXTENSION  
 EROSION CONTROL PLAN  
 Pin Oak Drive North to Beaver Lake Drive**  
 SCALE: VERT. N/A  
 HORIZ. 1"=50'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

F. A. U. SEC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-87	WILL	73	40
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (873)	

CONTRACT #63440

SILT FENCE WITH WIRE SUPPORT PLAN

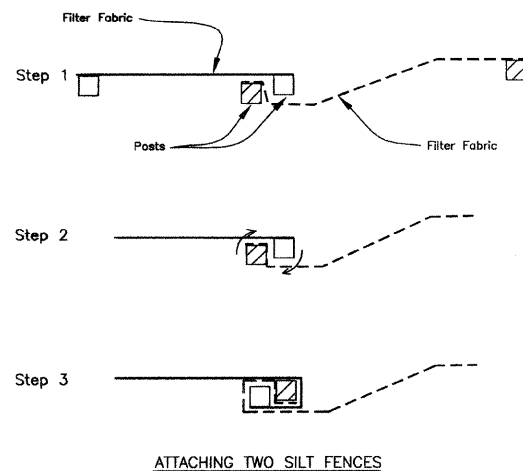


- NOTES:
1. Wires of mesh support shall be min. gage no. 12.
  2. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
  3. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class with equivalent opening size of at least 30 for nonwoven and 50 for woven.
  4. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

REFERENCE	STANDARD DWG. NO.
Project _____	IL-620W
Designed _____	SHEET 1 OF 2
Checked _____	DATE 3-3-85
Approved _____	



SILT FENCE



- NOTES:
1. Place the end post of the second fence inside the end post of the first fence.
  2. Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
  3. Drive both posts a minimum of 18 inches into the ground and bury the flap.

REFERENCE	STANDARD DWG. NO.
Project _____	IL-620(W)
Designed _____	SHEET 2 OF 2
Checked _____	DATE 1-29-99
Approved _____	



GENERAL NOTES

THE CONTRACTOR WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATIONS TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY WAY. SEDIMENTATION MUST NOT BE TRANSPORTED OFF THE CONSTRUCTION AREA. THE CONTRACTORS ATTENTION IS CALLED TO THE STANDARD SPECIFICATIONS FOR TEMPORARY EROSION CONTROL.

PERMANENT DRAINAGE FEATURES SHALL BE CONSTRUCTED AS SOON AS POSSIBLE.

SOIL EROSION CONTROL NOTES

THE CONTRACTOR SHALL BE REQUIRED TO IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES PRIOR TO EXISTING VEGETATION.

THE CONSTRUCTION LIMITS SHALL BE STAKED BY THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGED CONSTRUCTION LIMITS.

ROCK CHECK DAMS SHALL BE INSTALLED AT THE INLET AND OUTLET OF THE PROPOSED ROADWAY CULVERTS. (REFERENCE STANDARD IL-60SCA) WHERE PRACTICAL, NO RUNOFF FROM STRIPPED AREAS WILL LEAVE THE SITE OTHER THAN THROUGH ROCK CHECK DAMS. THE CONTRACTOR WILL ADJUST HIS OPERATIONS AND THE IMPLEMENTATION OF EROSION CONTROL MEASURES ACCORDINGLY.

ROCK CHECK DAM INSTALLATIONS SHALL BE USED WHERE DIRECTED BY THE ENGINEER. ALL INSTALLATIONS SHALL BE INSPECTED ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 0.5 INCHES OR MORE AND BE REPLACED A MINIMUM OF EVERY 90 DAYS OR AS DIRECTED BY THE ENGINEER. SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE ROCK CHECK DAM. (ILLINOIS URBAN MANUAL STANDARD 905)

ALL DRAINAGE STRUCTURES WITH OPEN GRATES IN THE PARKWAY SHALL HAVE INLET AND PIPE PROTECTION INSTALLED AROUND THE FRAME. (REFERENCE STANDARD IL-563) INSTALLATIONS SHALL BE INSPECTED AFTER EVERY RUNOFF PRODUCING RAIN AND SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE BARRIER. (ILLINOIS URBAN MANUAL STANDARD 863)

PERIMETER EROSION BARRIER SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER. (REFERENCE STANDARD IL-620) SEDIMENT SHALL BE REMOVED AFTER EACH RAINFALL AND ONCE IT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE BARRIER. (ILLINOIS URBAN MANUAL STANDARD 920)

ALL SOD SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER. SOD SHALL BE WATERED EVERY WEEK TO TWO WEEKS AND FERTILIZER APPLIED AS DIRECTED BY THE ENGINEER. (ILLINOIS URBAN MANUAL STANDARD 925)

SEEDING SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER. SEEDING SHALL BE CLASS 4A, A PERENNIAL RYEGRASS, AND PERFORMED BETWEEN APRIL 1 AND JUNE 1 IF PERFORMED IN THE SPRING OR AUGUST 1 AND SEPTEMBER 1 IF PERFORMED IN THE FALL. SEEDING SHALL BE PERFORMED AT A RATE OF 43 LBS/ACRE. (ILLINOIS URBAN MANUAL STANDARD 880)

THE SOIL AND WATER CONSERVATION DISTRICT IS RESPONSIBLE FOR CONDUCTING SITE VISITS AND VERIFYING THAT THE PRACTICES ARE WORKING PROPERLY AND DETERMINE IF ADDITIONAL PRACTICES ARE NEEDED FOR BETTER SOIL EROSION AND SEDIMENT CONTROL. IF ADDITIONAL PRACTICES ARE DEEMED NECESSARY BY THE SWCD THE CONTRACTOR WILL IMPLEMENT THE PRACTICES OF THE ILLINOIS URBAN MANUAL IN A TIMELY MANNER.

ROCK QUANTITIES IN TONS - PER ROCK CHECK

DEPTH (IN.)	ROCK CHECK WIDTH - 2/3 TW - IN FEET										
	10	12	14	16	18	20	22	24	26	28	30
15	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.8	3.9	4.1	4.4
18	1.8	2.1	2.5	2.8	3.2	3.8	3.9	4.3	4.8	5.0	5.3
24	2.4	2.8	3.3	3.8	4.3	4.7	5.2	5.7	6.2	6.8	7.1

NOTES:  
QUANTITIES BASED ON 2 FOOT WIDE TRENCH AND 1.6 TONS/CU. YD. (DIVIDE QUANTITIES BY 2 FOR 12 INCH TRENCH WIDTHS.)

ROCK CHECK SPACING

WATERWAY GRADE %	MAXIMUM SPACING FT.
0-1.5	100
1.5-3	75
> 3	50

ROCK GRADATION - IDOT RRS

SIZE	PERCENT PASSING BY WEIGHT
50 LB.	100
10 LB.	30-70
1 LB.	0-15

SOIL EROSION AND SEDIMENTATION CONTROL-NOTES

1. GENERAL

- THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF THE VILLAGE OF HOMER GLEN CODE, THE ILLINOIS PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL, AND IEPA STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENTATION CONTROL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES.
- SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE LAND IS OTHERWISE DISTURBED ON THE SITE.
- SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLotation BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEANUP FUEL OR CHEMICAL SPILLS AND LEAKS.
- DUST ON THE SITE SHALL BE CONTROLLED, THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATION IS PROHIBITED.
- SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- REPAIR ANY SILTATION OR EROSION DAMAGE TO ADJOINING SURFACES AND DRAINAGE WAYS RESULTING FROM LAND DEVELOPING OR DISTURBING ACTIVITIES.
- RIP RAP SHALL CONSIST OF AGGREGATE MATERIALS AND GEOTEXTILE FABRIC PLACED IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 02300. CONTRACTOR SHALL PLACE RIP RAP A MINIMUM OF TWO (2) FEET IN VERTICAL RISE UP THE SIDE SLOPES AND SHOWN ON THE PLANS.
- CONSTRUCT TEMPORARY SITE ACCESS POINTS USING AN AGGREGATE SURFACE FOR VEHICLE WASHING. DO NOT TRACK OR SPILL DIRT ONTO ADJACENT ROADWAYS. IF DIRT IS DEPOSITED ON PUBLIC OR PRIVATE PAVEMENTS, REMOVE THE DIRT IMMEDIATELY. ALL PAVEMENT TO BE THOROUGHLY CLEANED AT THE END OF EACH DAY BY METHOD OTHER THAN FLUSHING WITH WATER.

2. IMPLEMENTATION

- BEFORE STARTING SITE GRADING WORK, SILT FENCES SHALL BE INSTALLED AS SHOWN ON THE PLANS. IF DIRECTED BY THE MUNICIPAL ENGINEER, THE CONTRACTOR SHALL INSTALL ADDITIONAL SILT FENCES WHERE NEEDED.
- GRAVELED ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASH DOWN FACILITIES, IF NECESSARY, SHALL BE PROVIDED TO PREVENT SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY.
- ANY PUBLIC AND/OR PRIVATE ROADS THAT ARE ADJACENT TO THE SITE AND USED FOR INGRESS AND EGRESS, SHALL BE MONITORED AND SWEEPED WHEN DIRTY AT THE DIRECTION OF THE VILLAGE OF HOMER GLEN ENGINEER.
- STAKED STRAW BALES SHALL BE INSTALLED AND MAINTAINED AROUND INTAKE STRUCTURES (I.E. INLETS, CATCH BASINS) AS SHOWN ON THE PLAN. THE CONTRACTOR, AT HIS OPTION, MAY USE SILT FENCES INSTEAD OF STRAW BALES.
- IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN 10 DAYS, SEDIMENT AND EROSION CONTROL SHALL BE PROVIDED AROUND SUCH STOCKPILE. IF MORE THAN 2 MONTHS, THEN IT IS REQUIRED THAT THE STOCKPILE BE SEEDING SO AS TO MINIMIZE SOIL EROSION BY BOTH WIND AND WATER.

3. INSPECTION AND MAINTENANCE

- THE TEMPORARY EROSION CONTROL MEASURES SHALL BE IN PLACE AND WORK EFFECTIVELY UNTIL ALL THE PERMANENT EROSION CONTROL ITEMS ARE FULLY FUNCTIONAL.
- THE CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES WEEKLY AND AFTER ANY STORM EVENT IN EXCESS OF 1/2". ANY DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY.
- AT THE COMPLETION OF THE PROJECT, ALL STORM SEWER PIPES AND STRUCTURES SHALL BE CLEANED AND FREE OF DIRT AND DEBRIS. THE SEDIMENTATION SHALL BE REMOVED FROM THE STORM SEWER SYSTEM AND SHALL NOT BE WASHED OUT IN THE STORM SEWER SYSTEM.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION  
EROSION CONTROL NOTES & DETAILS

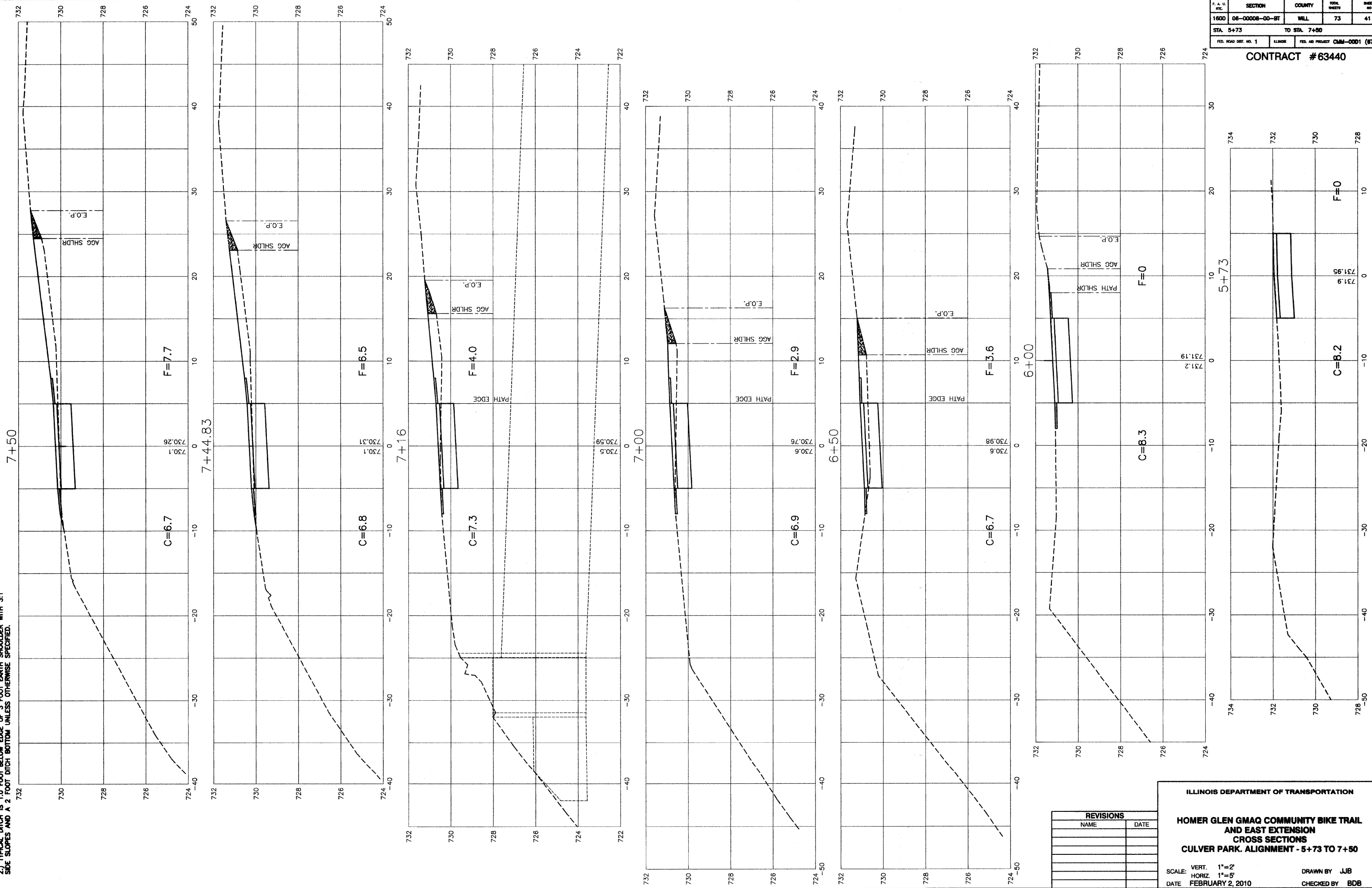
SCALE: VERT. N/A  
HORIZ. N/A  
DATE: FEBRUARY 2, 2010  
DRAWN BY: JJB  
CHECKED BY: BDB



F. A. U. R.T.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	41
STA. 5+73	TO STA. 7+50			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (873)	

CONTRACT #63440

NOTES:  
 1.) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION CROSS SECTIONS CULVER PARK, ALIGNMENT - 5+73 TO 7+50**

SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'

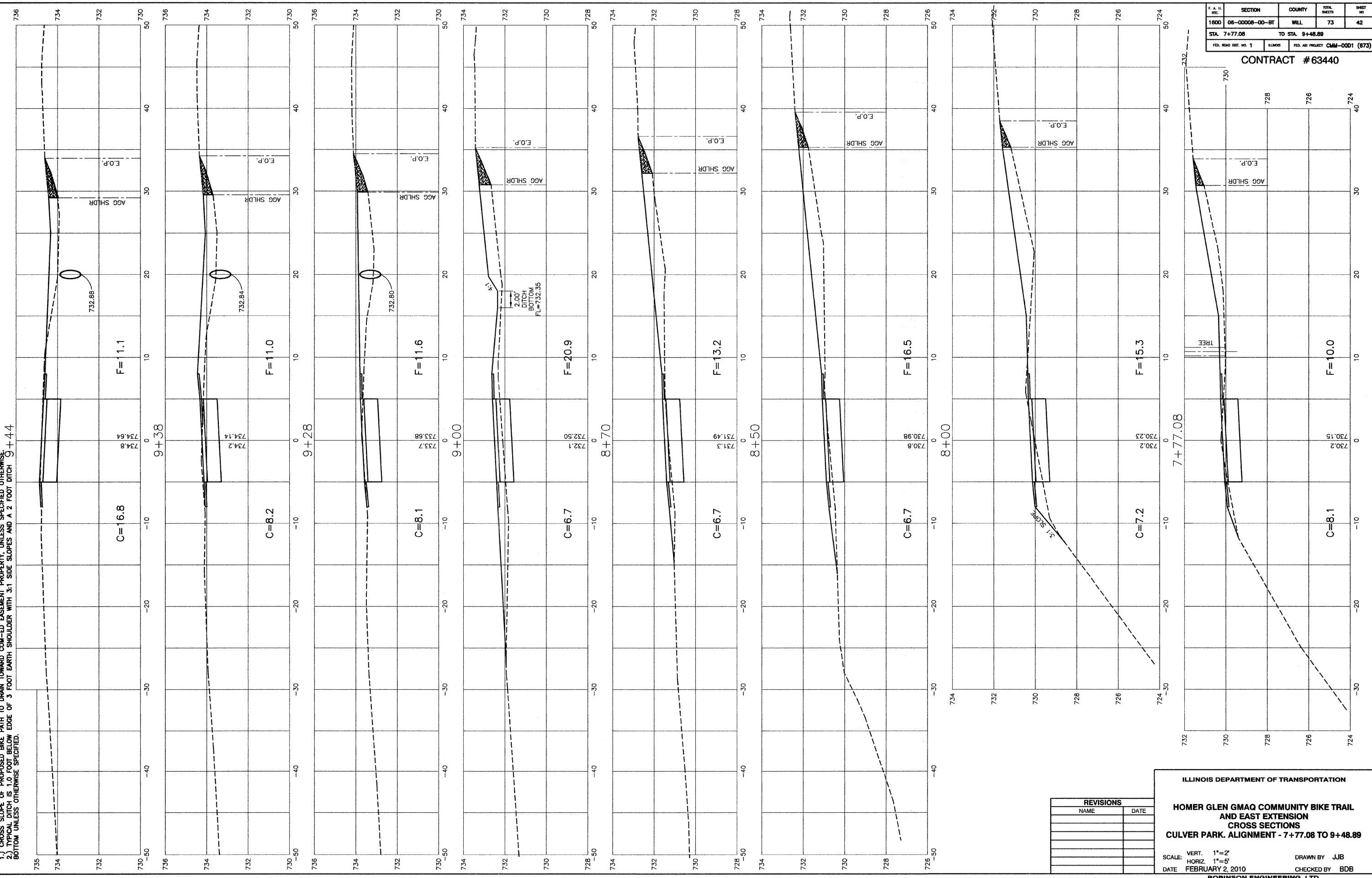
DATE: FEBRUARY 2, 2010

DRAWN BY: JJB  
 CHECKED BY: BDB

ROBINSON ENGINEERING, LTD.  
 1700 SOUTH PARK AVENUE, SOUTH HOLLAND, ILLINOIS 60473  
 (708) 581-8700 FAX (708) 581-8688  
 ILLINOIS DESIGN FIRM REGISTRATION NO. 15402128

06231-XSCT-01-P2

NOTES:  
 1. CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2. TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.



F. A. U. ITC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1800	06-00008-00-BT	WILL	73	42
STA. 7+77.08		TO STA. 9+48.89		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (873)	

CONTRACT #63440

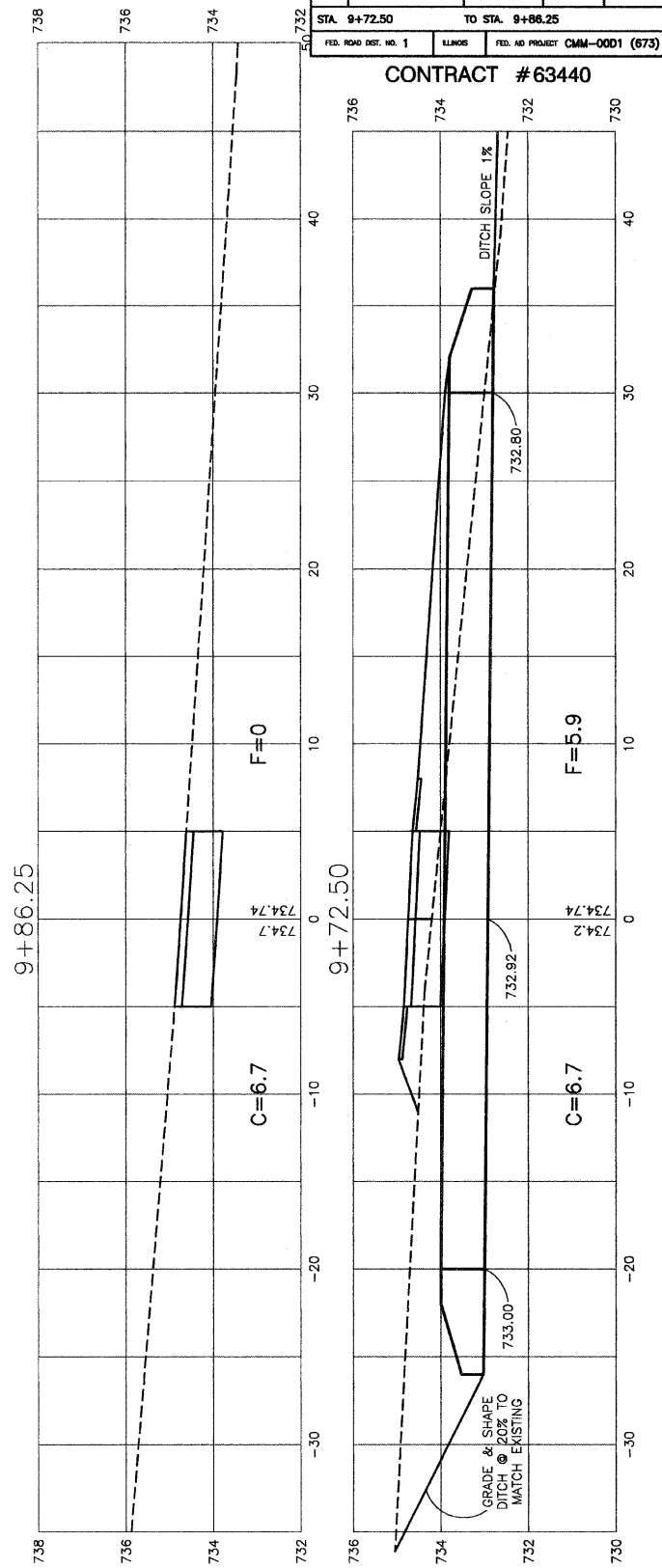
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL  
 AND EAST EXTENSION  
 CROSS SECTIONS  
 CULVER PARK. ALIGNMENT - 7+77.08 TO 9+48.89**  
 SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

NOTES:  
 1.) GROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.

F. A. L. SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1800	06-00006-00-BT	WILL	73	43
STA. 9+72.50		TO STA. 9+86.25		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-0001 (673)		

CONTRACT #63440



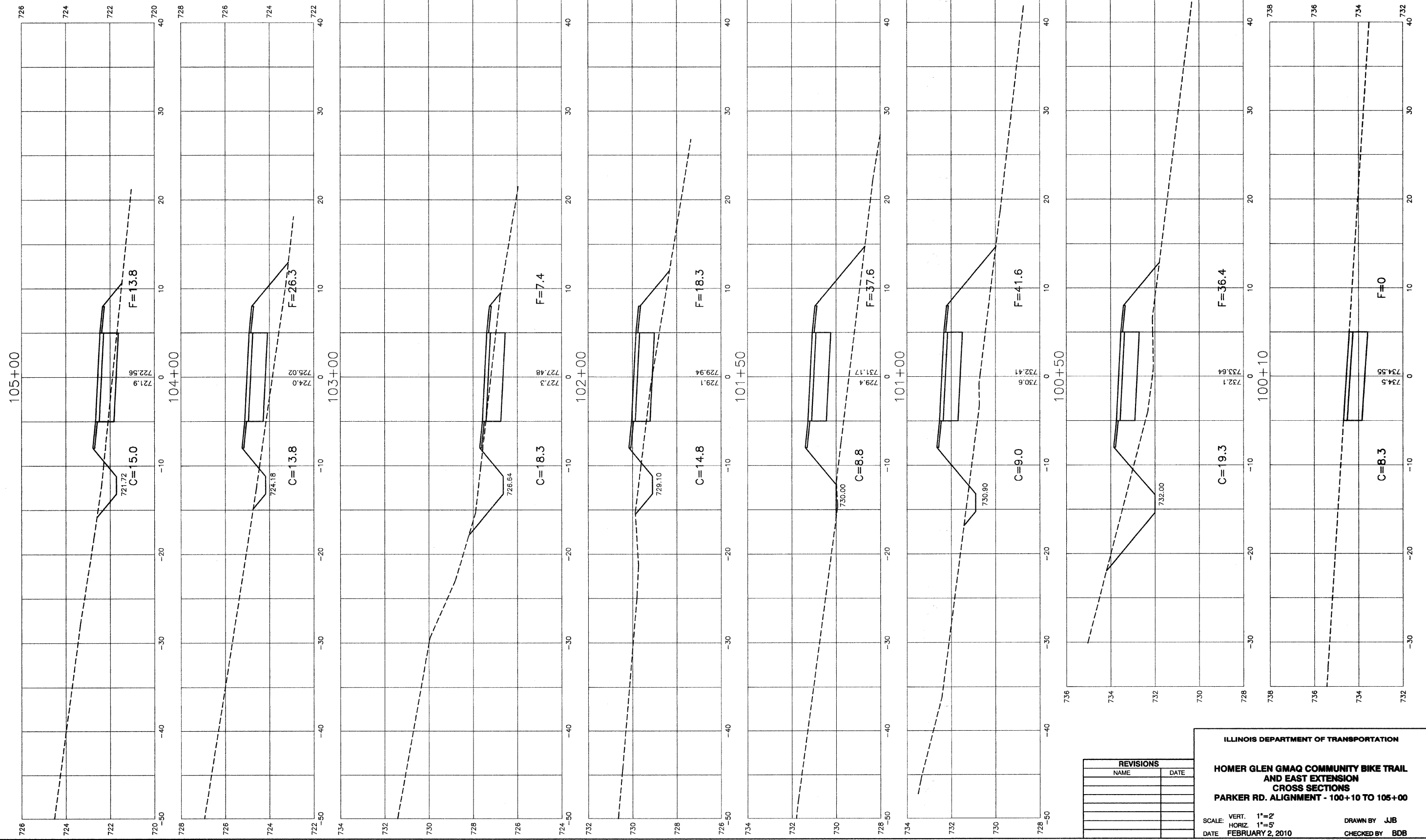
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION CROSS SECTIONS**  
**CULVER PARK ALIGNMENT - 9+72.50 TO 9+86.25**  
 SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

**NOTES:**  
 1.) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.

F. A. R. E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	44
STA. 100+10		TO STA. 105+00		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (873)	

**CONTRACT #63440**



REVISIONS		
NO.	NAME	DATE

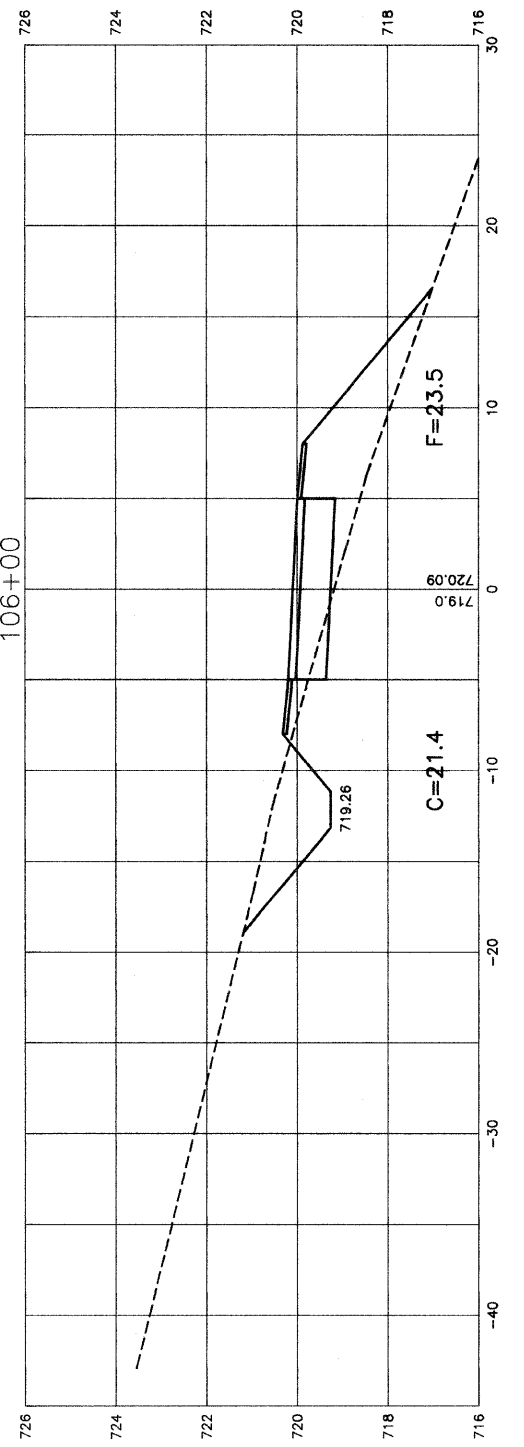
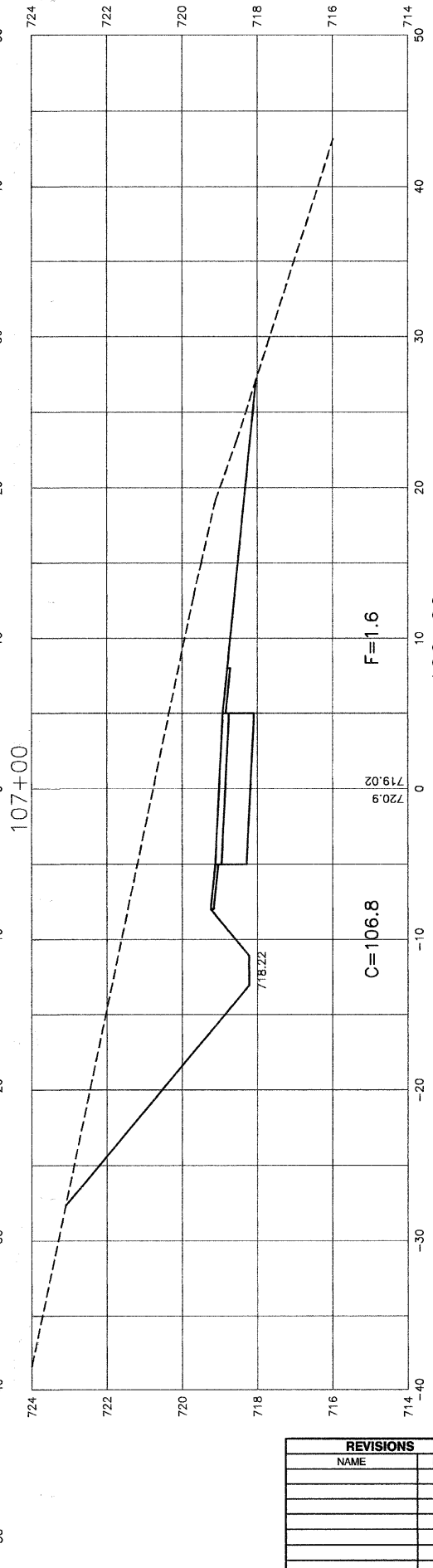
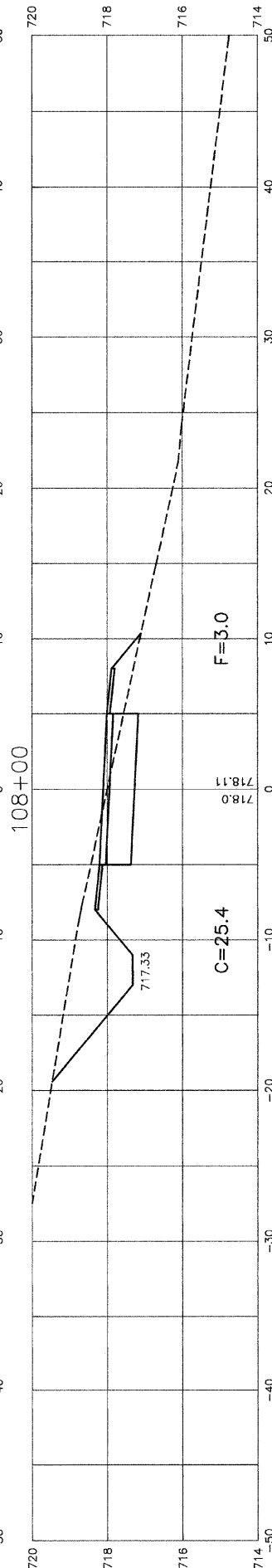
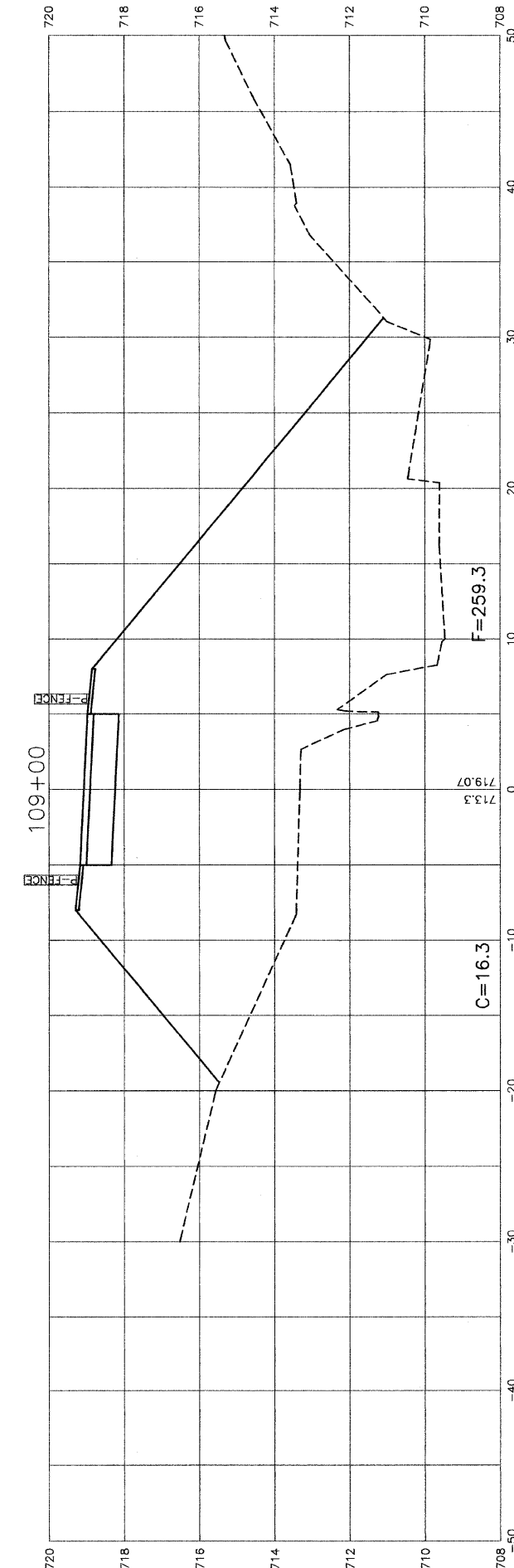
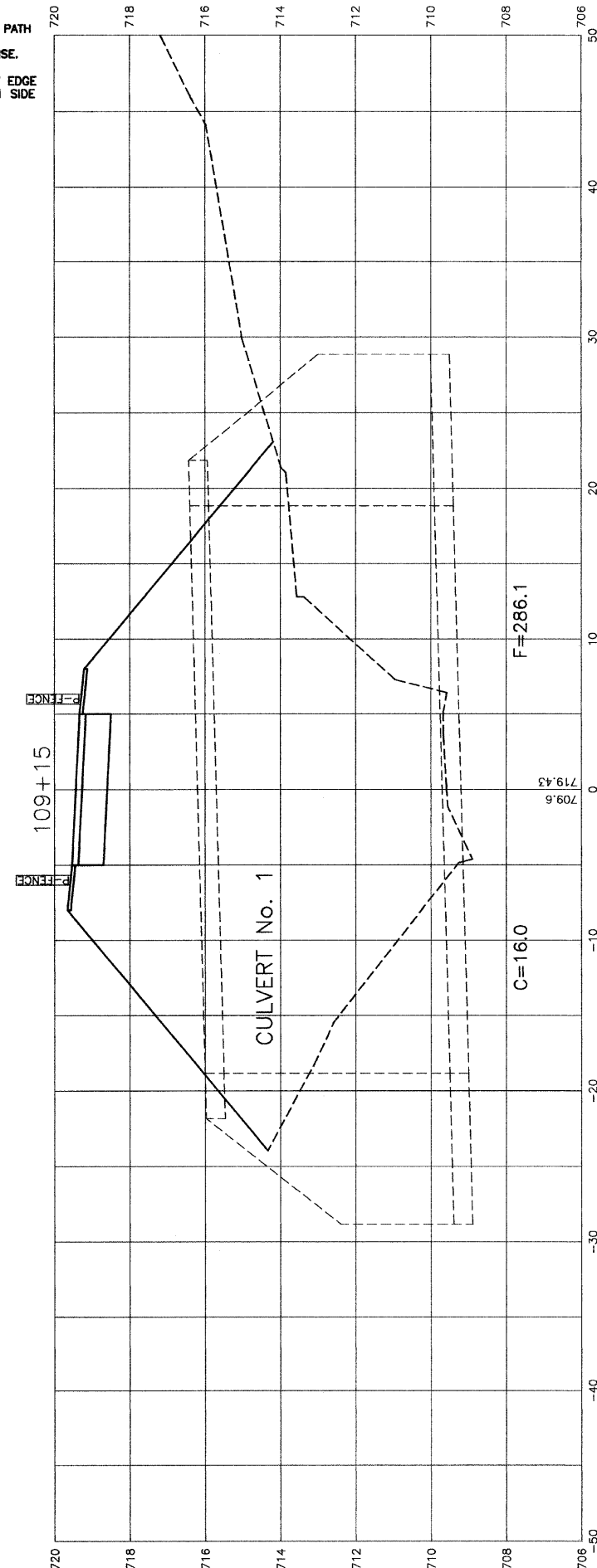
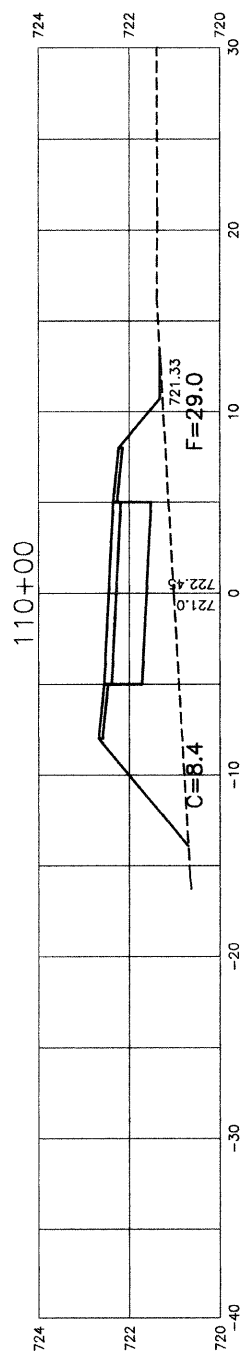
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION**  
**CROSS SECTIONS**  
**PARKER RD. ALIGNMENT - 100+10 TO 105+00**  
 SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

**NOTES:**

- 1.) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.
- 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1800	06-00008-00-BT	WILL	73	46
STA. 106+00		TO STA. 110+00		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (873)	

**CONTRACT #63440**



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION**

**CROSS SECTIONS**

**PARKER RD. ALIGNMENT - 106+00 TO 110+00**

SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'

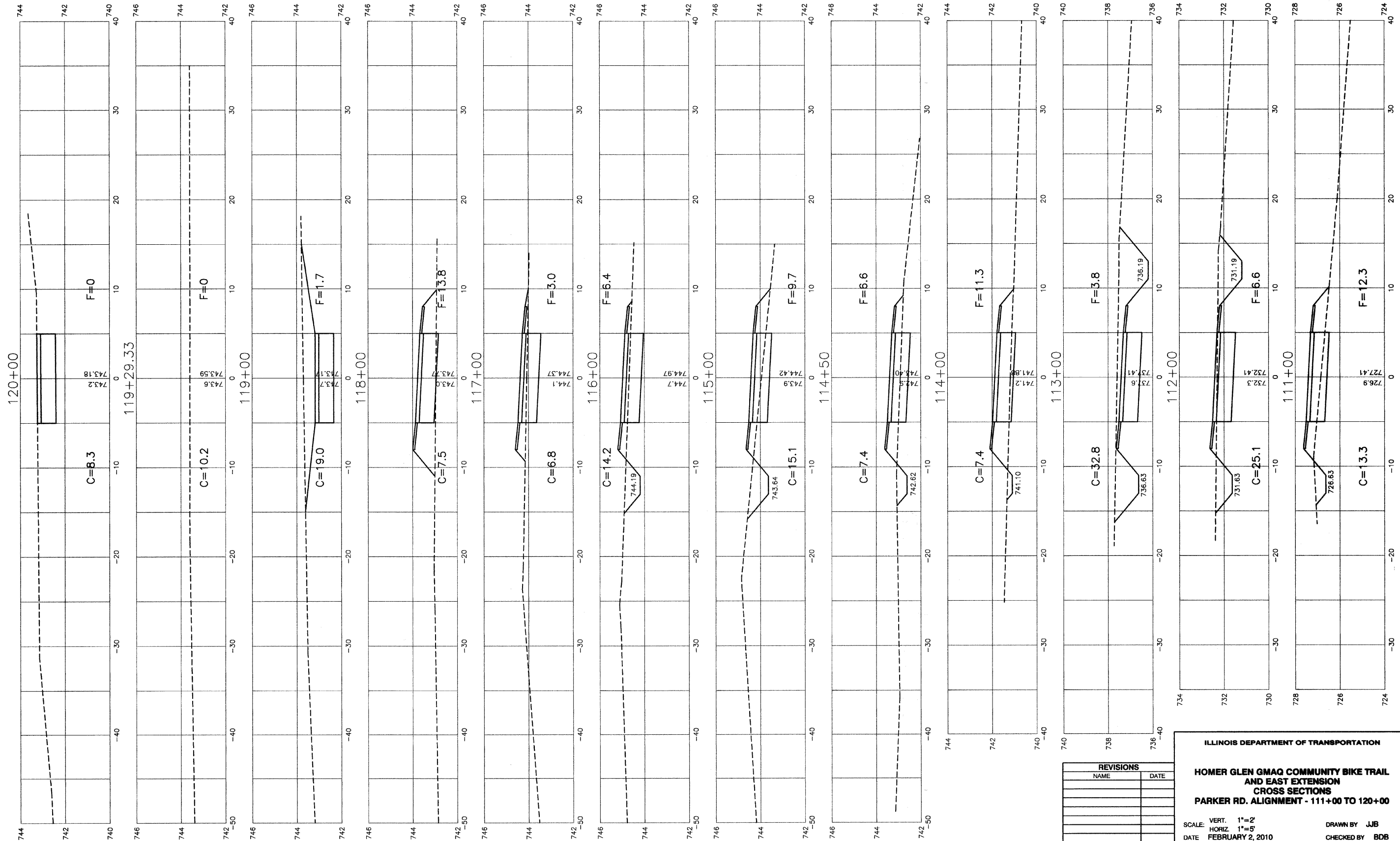
DATE: FEBRUARY 2, 2010

DRAWN BY: JJB  
 CHECKED BY: BOB

**NOTES:**  
 1.) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1800	06-00008-00-BT	WILL	73	46
STA. 111+00		TO STA. 120+00		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (673)	

CONTRACT #63440



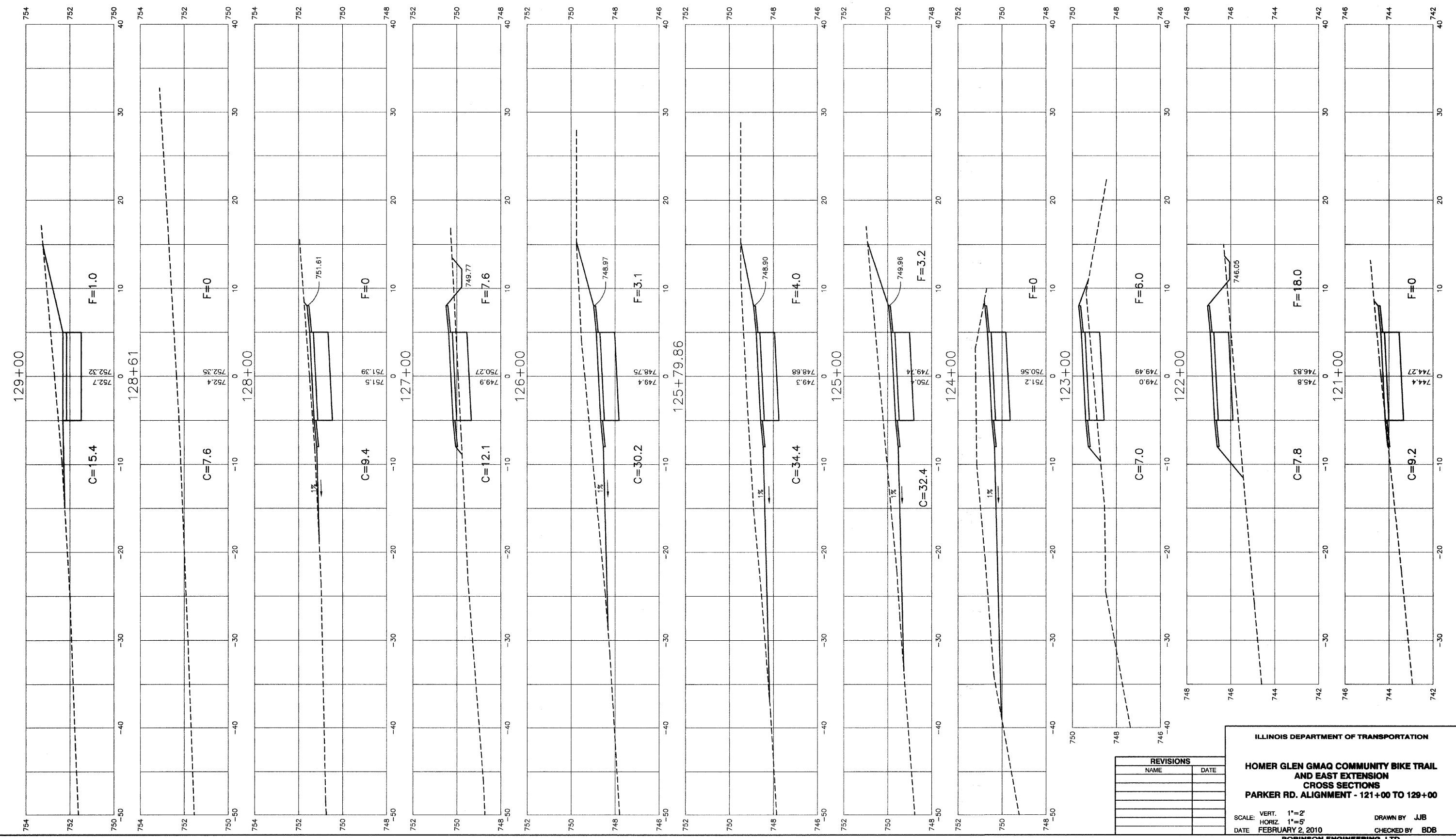
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL  
 AND EAST EXTENSION  
 CROSS SECTIONS  
 PARKER RD. ALIGNMENT - 111+00 TO 120+00**  
 SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

**NOTES:**  
 1.) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1800	06-0006-00-BT	WILL	73	47
STA. 121+00		TO STA. 129+00		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (873)	

CONTRACT #63440



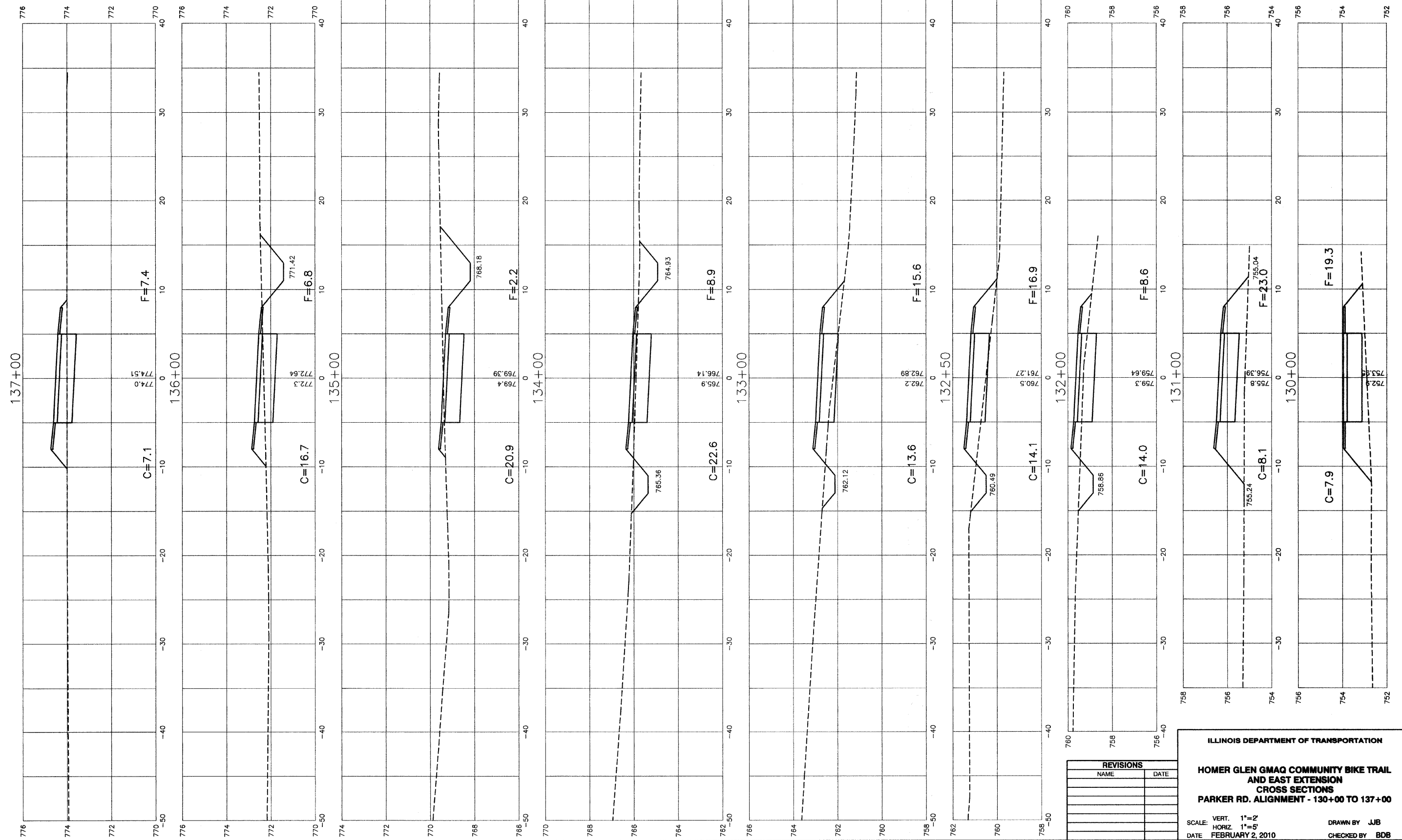
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL  
 AND EAST EXTENSION  
 CROSS SECTIONS  
 PARKER RD. ALIGNMENT - 121+00 TO 129+00**  
 SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

**NOTES:**  
 1.) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.

F. A. U. ETC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1800	06-00008-00-BT	WILL	73	48
STA. 130+00		TO STA. 137+00		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (873)	

**CONTRACT #63440**



REVISIONS	
NAME	DATE

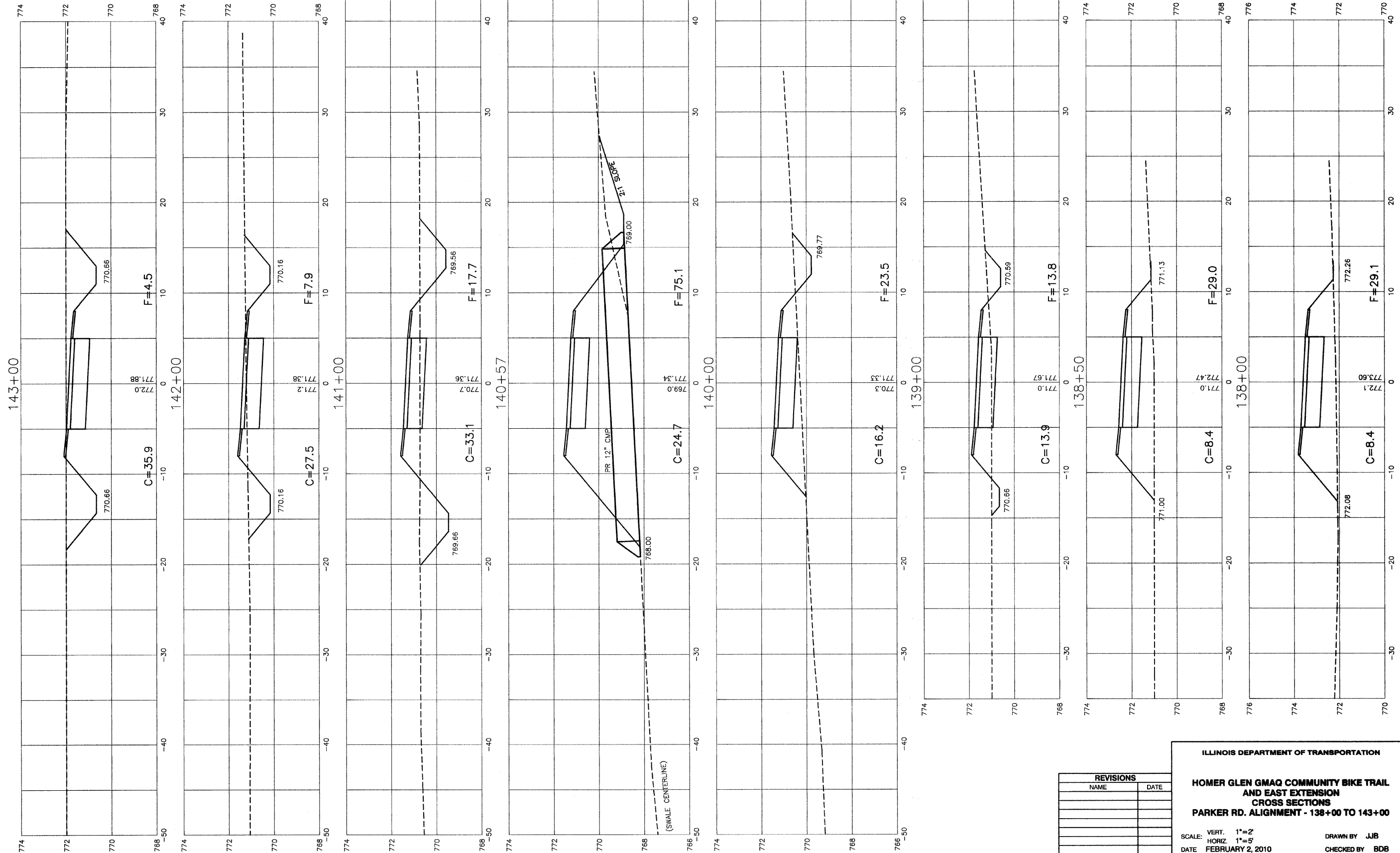
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL  
 AND EAST EXTENSION  
 CROSS SECTIONS  
 PARKER RD. ALIGNMENT - 130+00 TO 137+00**  
 SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB



**NOTES:**  
 1.) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	48
STA. 138+00		TO STA. 143+00		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (673)	

**CONTRACT #63440**



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION CROSS SECTIONS**

**PARKER RD. ALIGNMENT - 138+00 TO 143+00**

SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'

DATE: FEBRUARY 2, 2010

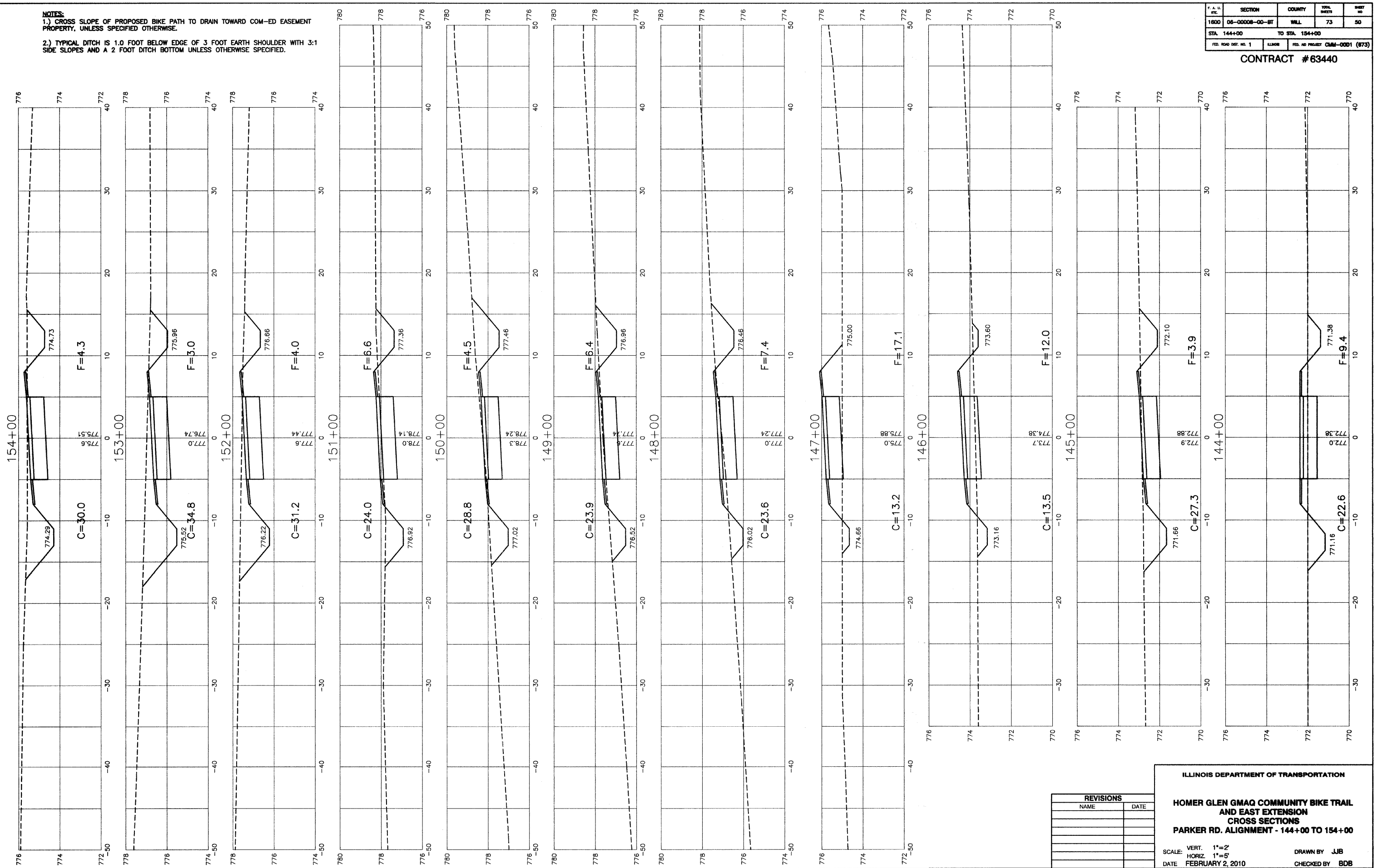
DRAWN BY: JJB  
 CHECKED BY: BDB

ROBINSON ENGINEERING, LTD.  
 1700 SOUTH PARK AVENUE, SOUTH HOLLAND, ILLINOIS 60473  
 (708) 381-6700 FAX (708) 381-8888  
 ILLINOIS DESIGN FIRM REGISTRATION NO. 19602728

**NOTES:**  
 1.) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.

F. A. L. ETC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-ST	WILL	73	50
STA. 144+00		TO STA. 154+00		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-0001 (873)		

**CONTRACT #63440**



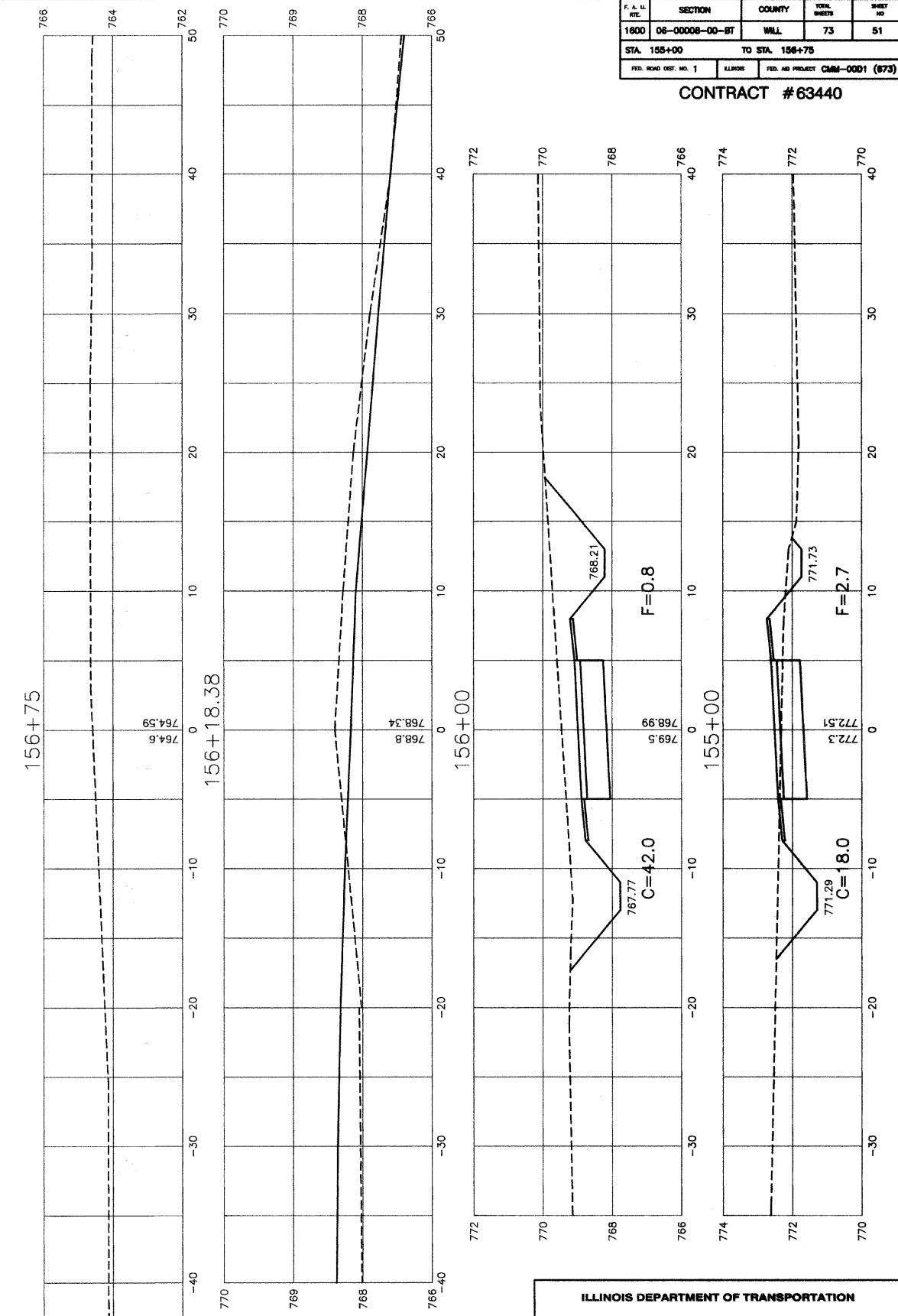
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION CROSS SECTIONS**  
**PARKER RD. ALIGNMENT - 144+00 TO 154+00**  
 SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

**NOTES:**  
 1.) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.

F. A. U. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1800	06-00008-00-BT	WILL	73	51
STA. 155+00		TO STA. 156+75		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (673)	

CONTRACT #63440



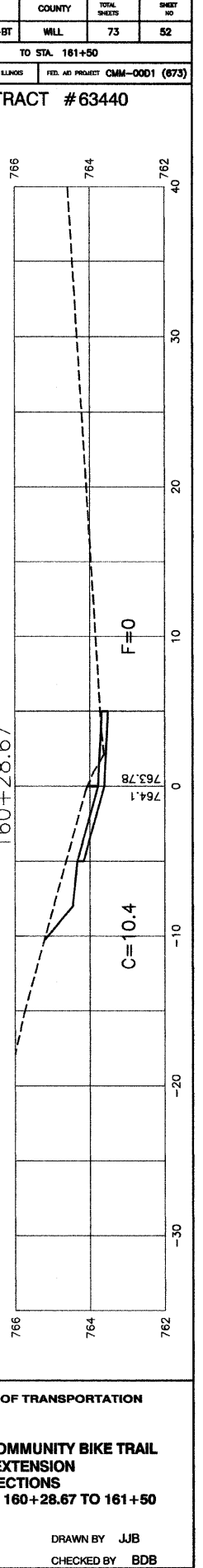
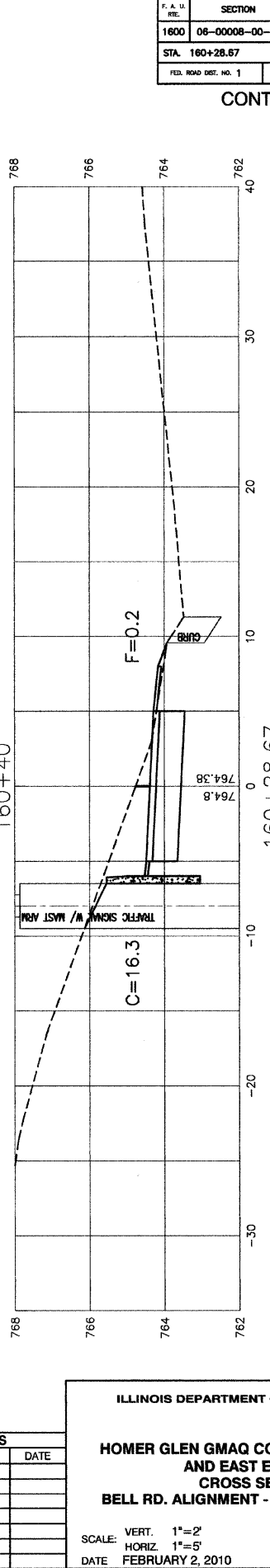
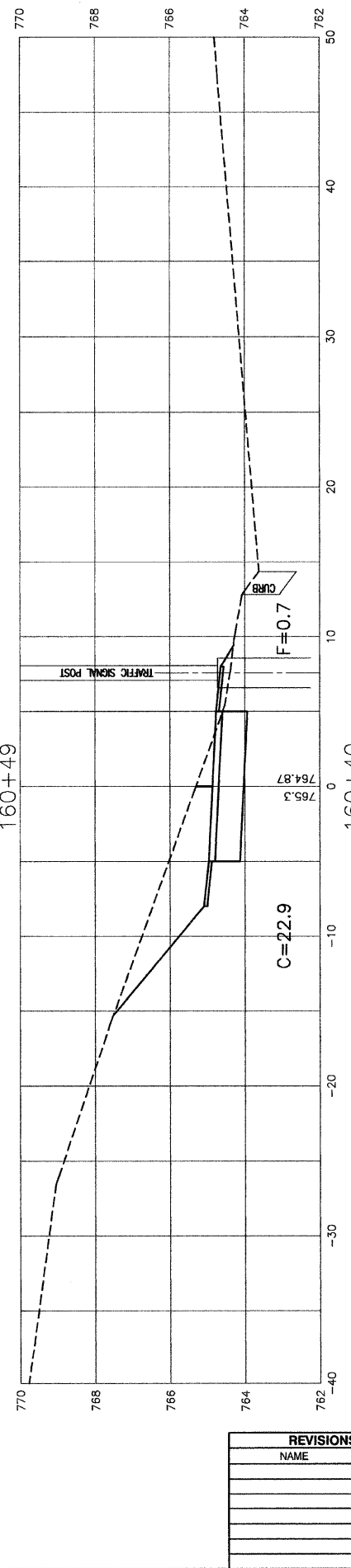
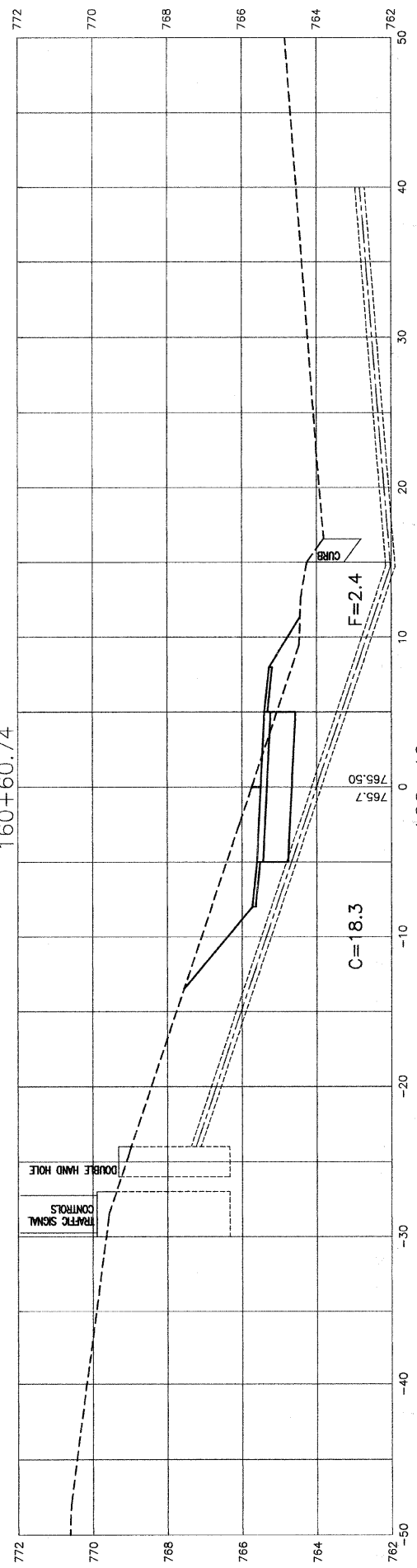
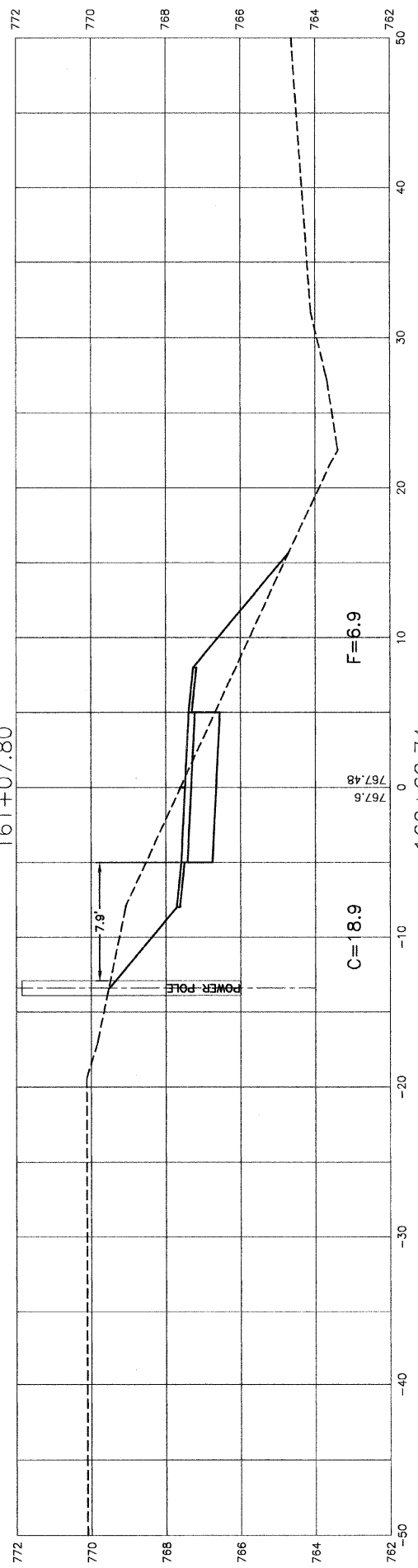
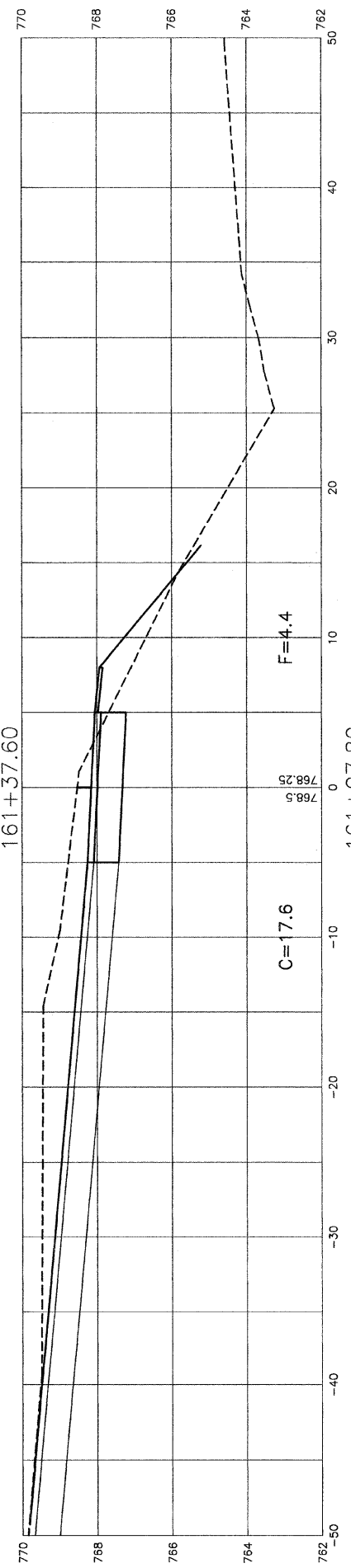
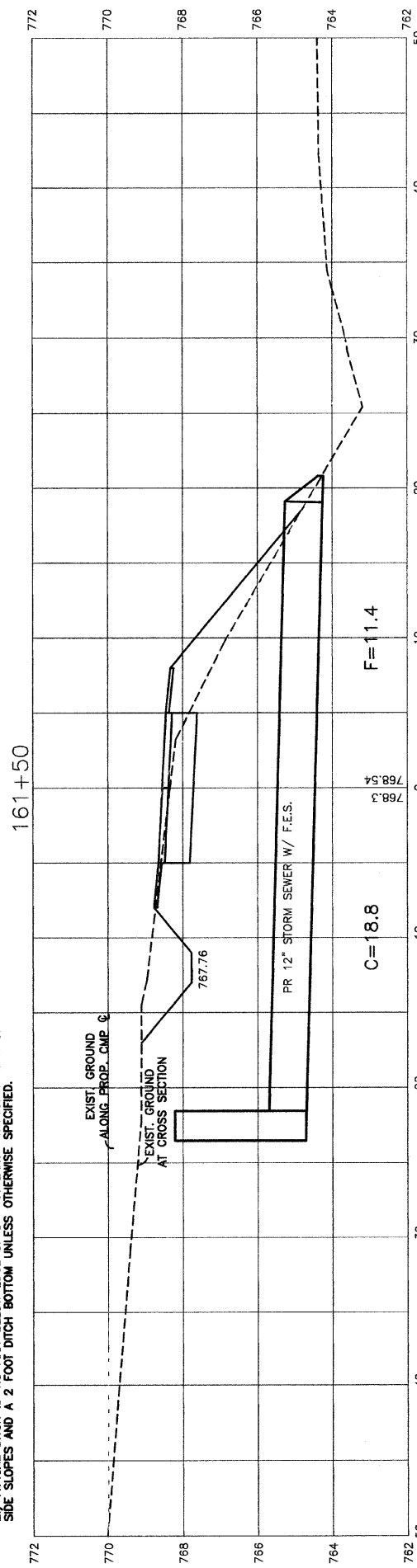
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL  
 AND EAST EXTENSION  
 CROSS SECTIONS  
 PARKER RD. ALIGNMENT - 155+00 TO 156+75**  
 SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	52
STA. 160+28.67	TO STA. 161+50			
FED. ROAD DIST. NO. 1	BLANKS	FED. AID PROJECT	CMM-0001 (673)	

CONTRACT #63440

- NOTES:
- CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.
  - TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION**

**CROSS SECTIONS**

**BELL RD. ALIGNMENT - 160+28.67 TO 161+50**

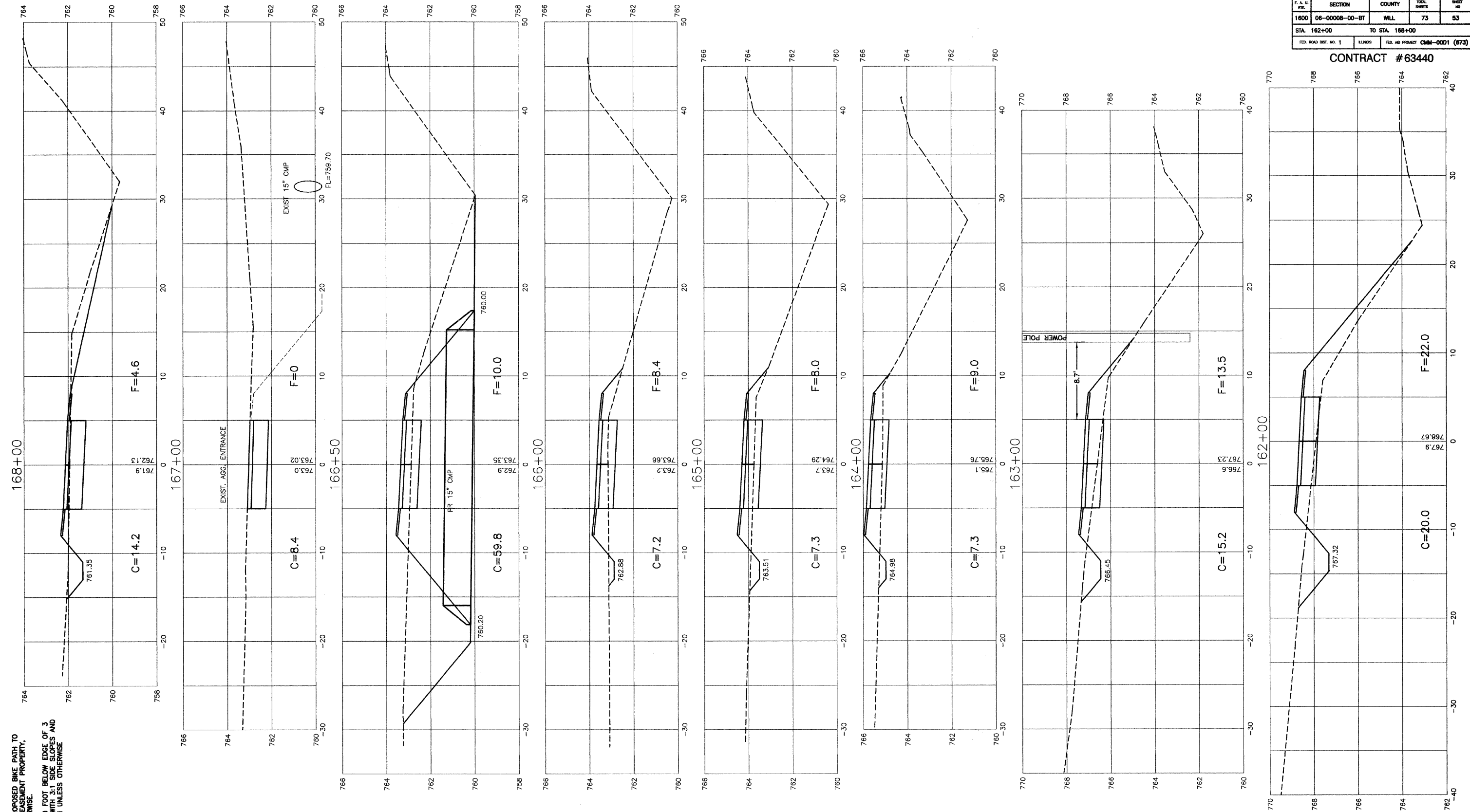
SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'

DATE: FEBRUARY 2, 2010

DRAWN BY: JJB  
 CHECKED BY: BDB

F. A. U. #	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-0000B-00-BT	WILL	73	53
STA. 162+00		TO STA. 168+00		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (673)	

CONTRACT #63440



NOTES:  
 1.) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3% SIDE SLOPES AND 50 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION**  
**BELL RD. ALIGNMENT - 162+00 TO 168+00**

SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'

DATE: FEBRUARY 2, 2010

DRAWN BY: JJB  
 CHECKED BY: BDB

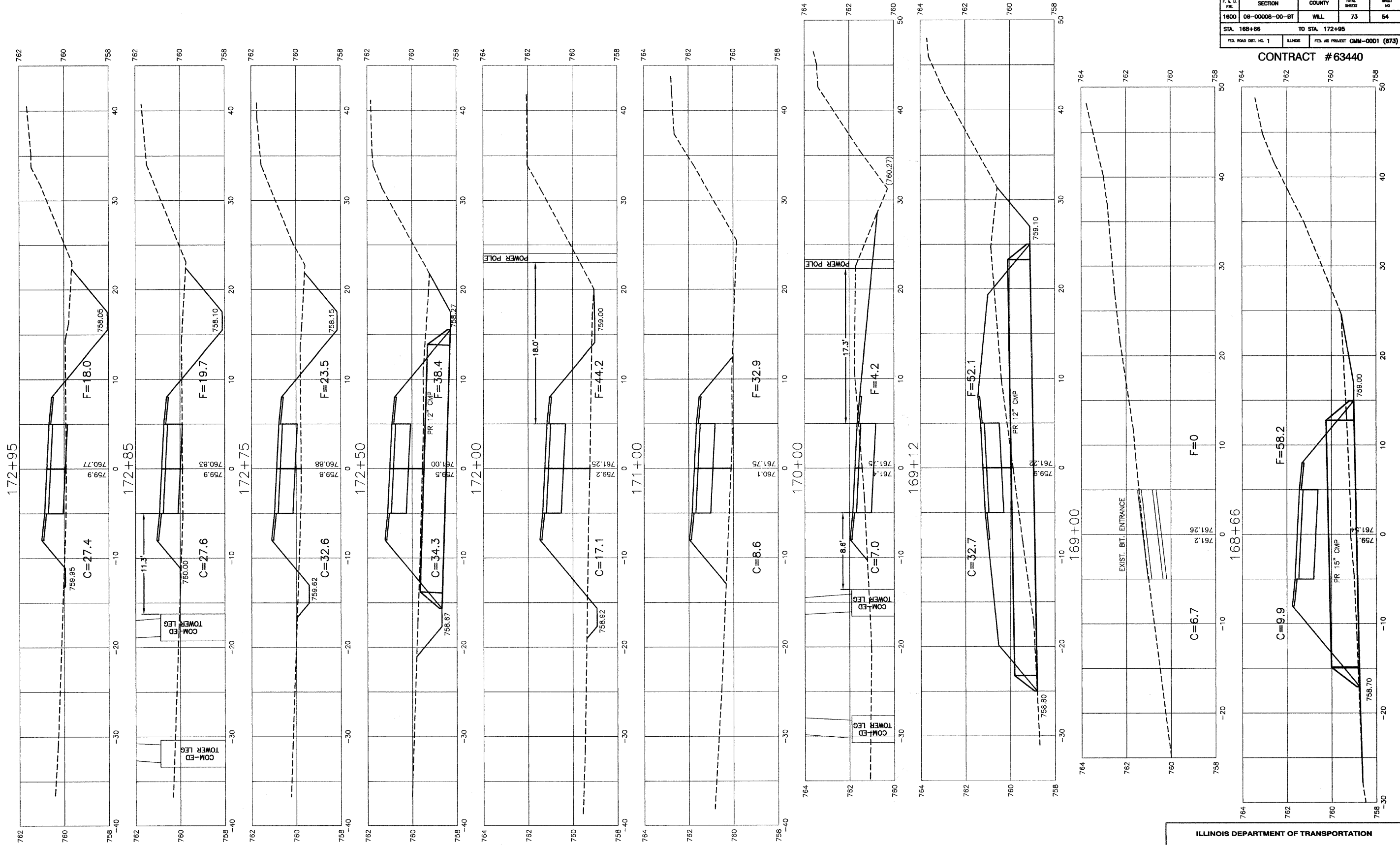
ROBINSON ENGINEERING, LTD.  
 1700 SOUTH PARK AVENUE, SOUTH HOLLAND, ILLINOIS 60473  
 (708) 331-8700 FAX (708) 331-3826  
 ILLINOIS DESIGN FIRM REGISTRATION NO. 154001128

06231-XSCT-01-P2

F. A. U. SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1800	06-00008-00-BT	WILL	73	54
STA. 168+66		TO STA. 172+95		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (673)	

CONTRACT #63440

- NOTES:  
 1.) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION**  
**CROSS SECTIONS**  
**BELL RD. ALIGNMENT - 168+66 TO 172+95**

SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'

DATE: FEBRUARY 2, 2010

DRAWN BY: JJB  
 CHECKED BY: BDB

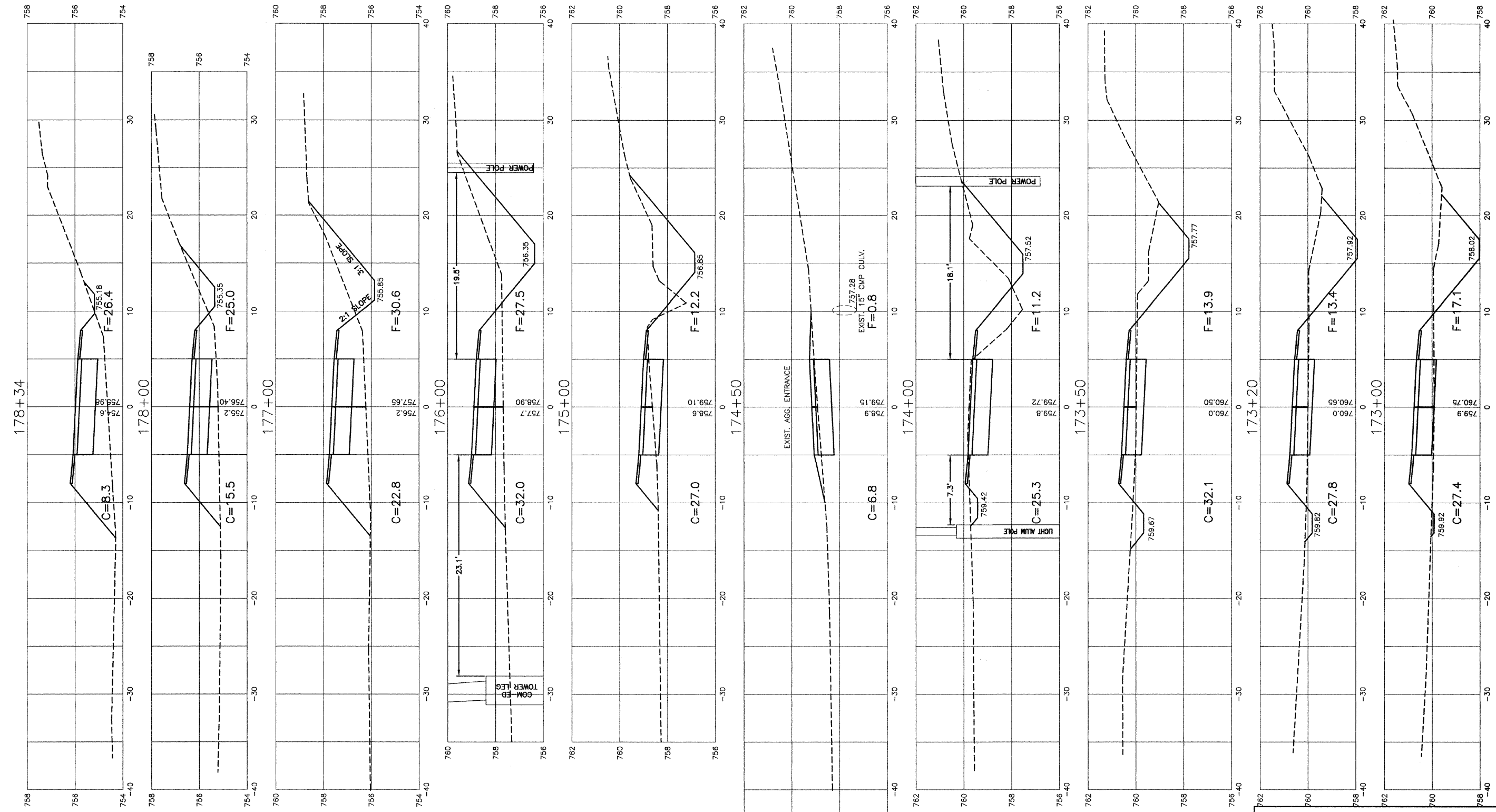
ROBINSON ENGINEERING, LTD.  
 7000 SOUTH PARK AVENUE, SOUTH HOLLAND, ILLINOIS 60473  
 (708) 331-6700 FAX (708) 331-3658  
 ILLINOIS DESIGN FIRM REGISTRATION NO. 13607128

06231-XSCT-01-P2

F. A. U. SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	55
STA. 173+00		TO STA. 178+34		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (873)	

CONTRACT #63440

- NOTES:  
 1.) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION**  
**CROSS SECTIONS**  
**BELL RD. ALIGNMENT - 173+00 TO 178+34**

SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'

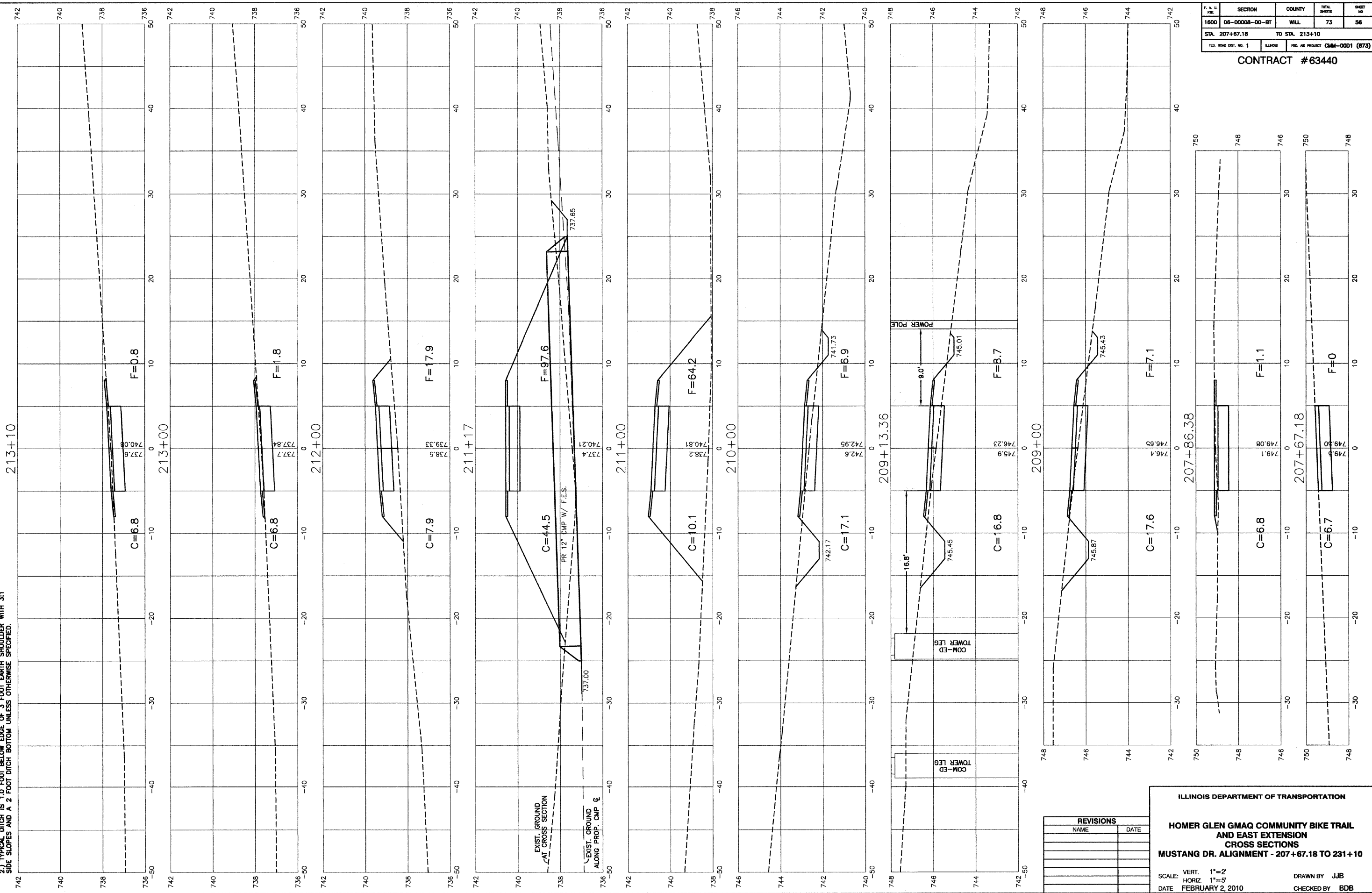
DATE: FEBRUARY 2, 2010

DRAWN BY: JJB  
 CHECKED BY: BDB

F. A. U. SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	56
STA. 207+67.18		TO STA. 213+10		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (873)	

CONTRACT #63440

NOTES:  
 1) UNLESS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.

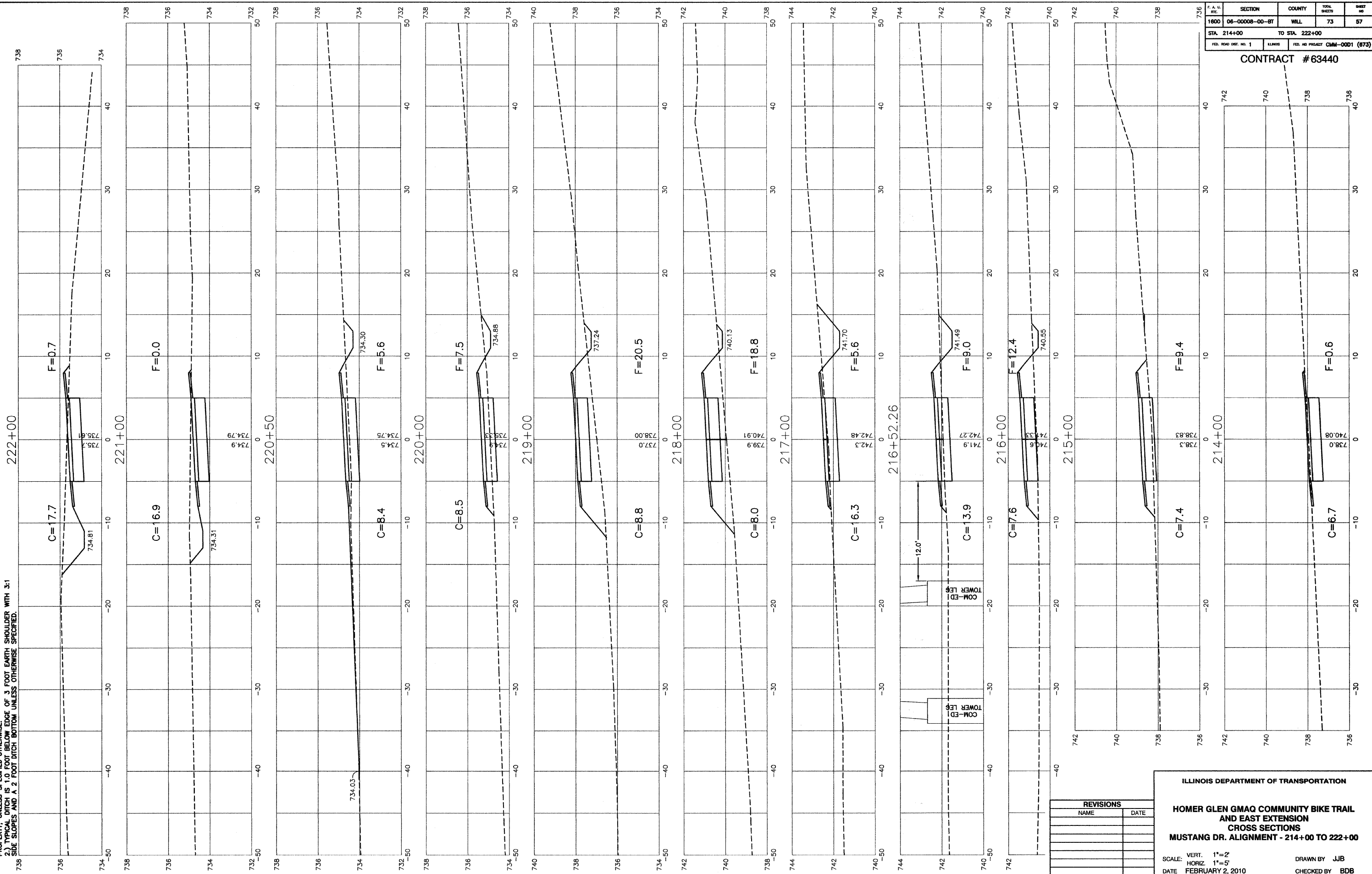


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION**  
**CROSS SECTIONS**  
**MUSTANG DR. ALIGNMENT - 207+67.18 TO 231+10**  
 SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB



UNLESS:  
 1.) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.



F. A. L. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	57
STA. 214+00		TO STA. 222+00		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-00D1 (673)	

CONTRACT #63440

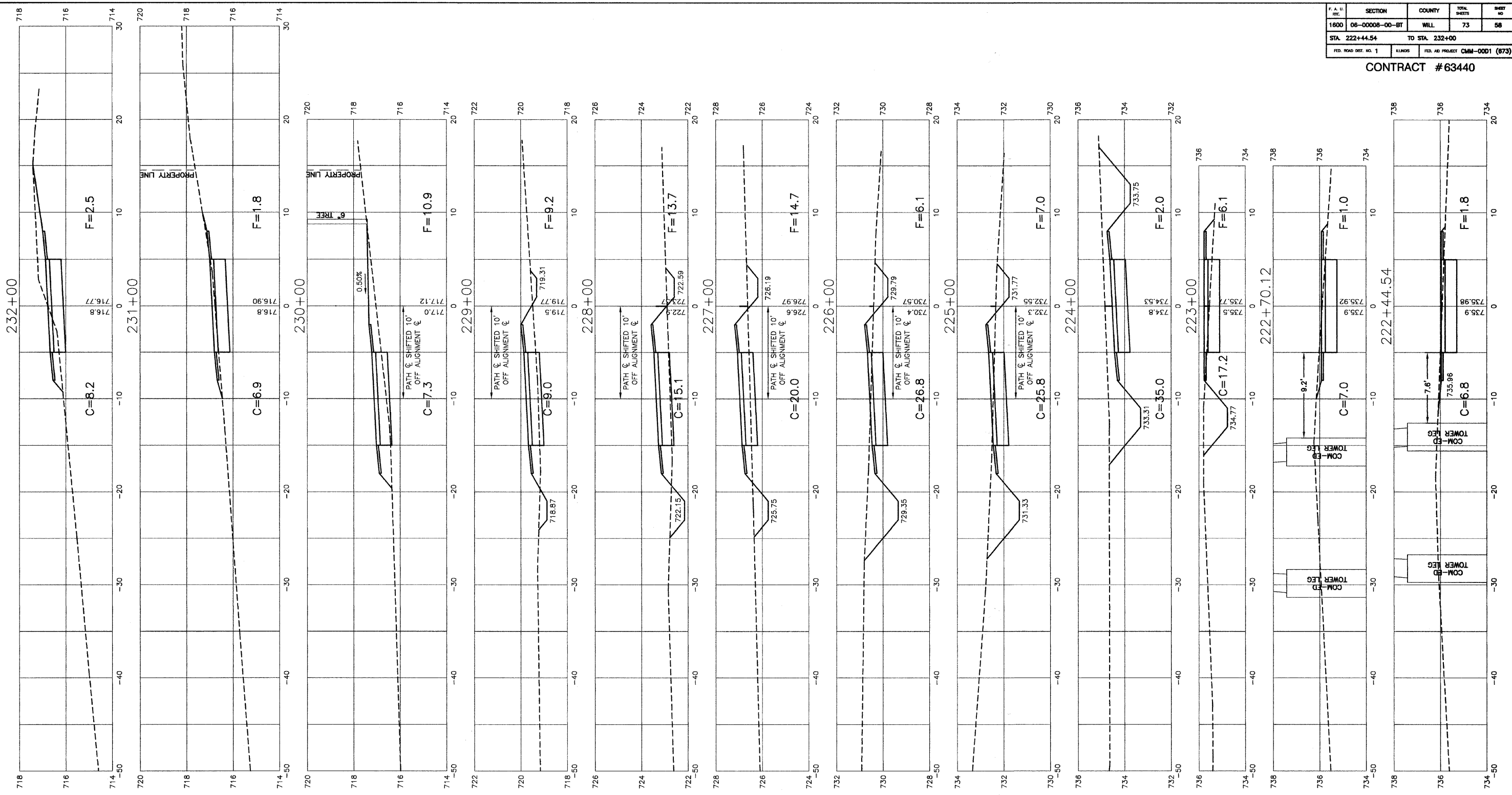
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION CROSS SECTIONS MUSTANG DR. ALIGNMENT - 214+00 TO 222+00**  
 SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	58
STA. 222+44.54		TO STA. 232+00		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (673)	

CONTRACT #63440

NOTES:  
 1.) GROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION CROSS SECTIONS**

**MUSTANG DR. ALIGNMENT - 222+44.54 TO 232+00**

SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'

DATE: FEBRUARY 2, 2010

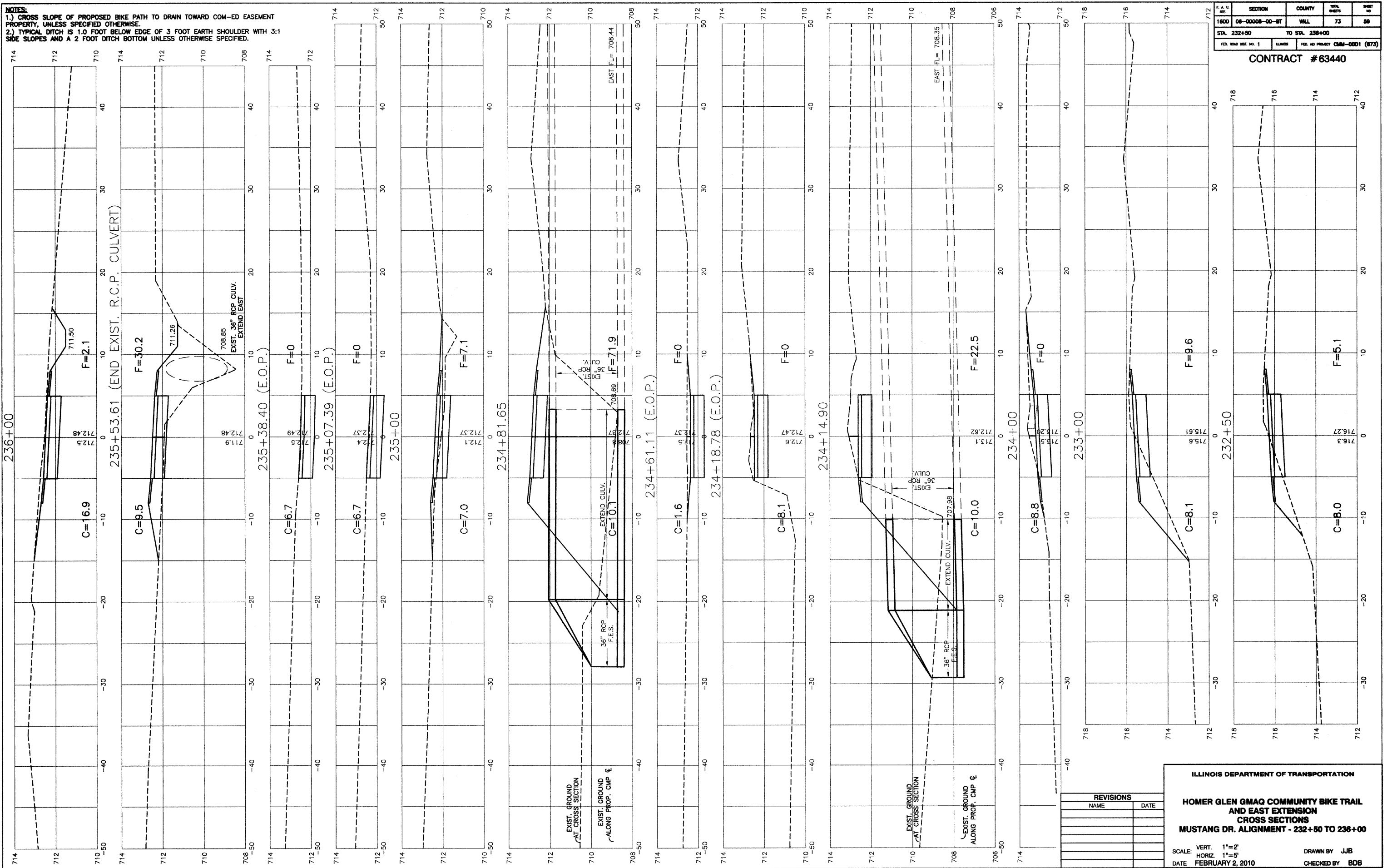
DRAWN BY: JJB  
 CHECKED BY: BDB

ROBINSON ENGINEERING, LTD.  
 1700 SOUTH PARK AVENUE, SOUTH HOLLAND, ILLINOIS 60486  
 (708) 331-6700 FAX (708) 331-8800  
 ILLINOIS DESIGN FIRM REGISTRATION NO. 194601128

NOTES:  
 1.) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.

F. A. U. SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	50
STA. 232+50		TO STA. 236+00		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (873)	

CONTRACT #63440



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAO COMMUNITY BIKE TRAIL AND EAST EXTENSION CROSS SECTIONS**  
 MUSTANG DR. ALIGNMENT - 232+50 TO 236+00

SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'

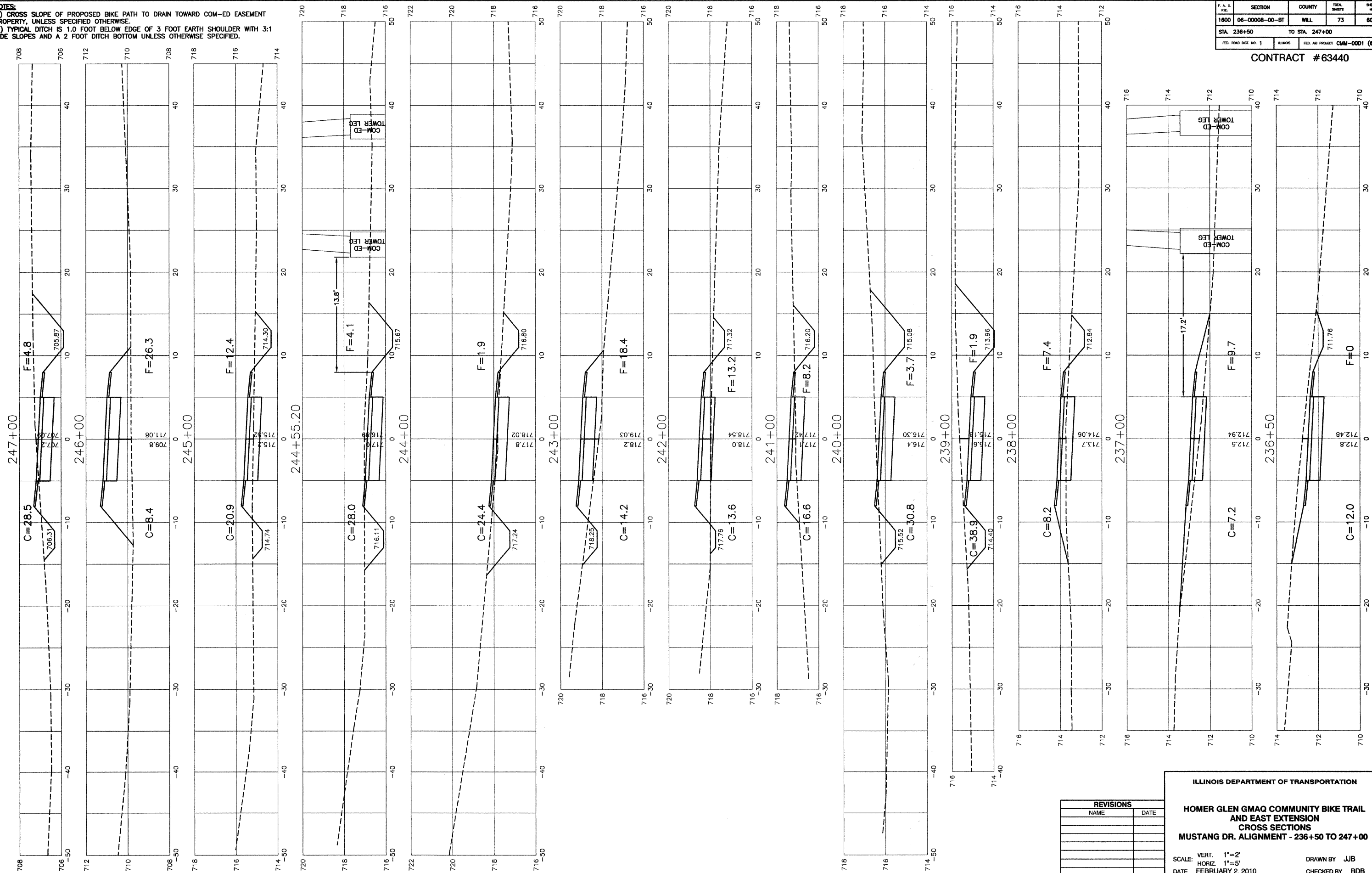
DATE: FEBRUARY 2, 2010

DRAWN BY: JJB  
 CHECKED BY: BDB

NOTES:  
 1.) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.

F. A. U. REC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	60
STA. 236+50		TO STA. 247+00		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (873)	

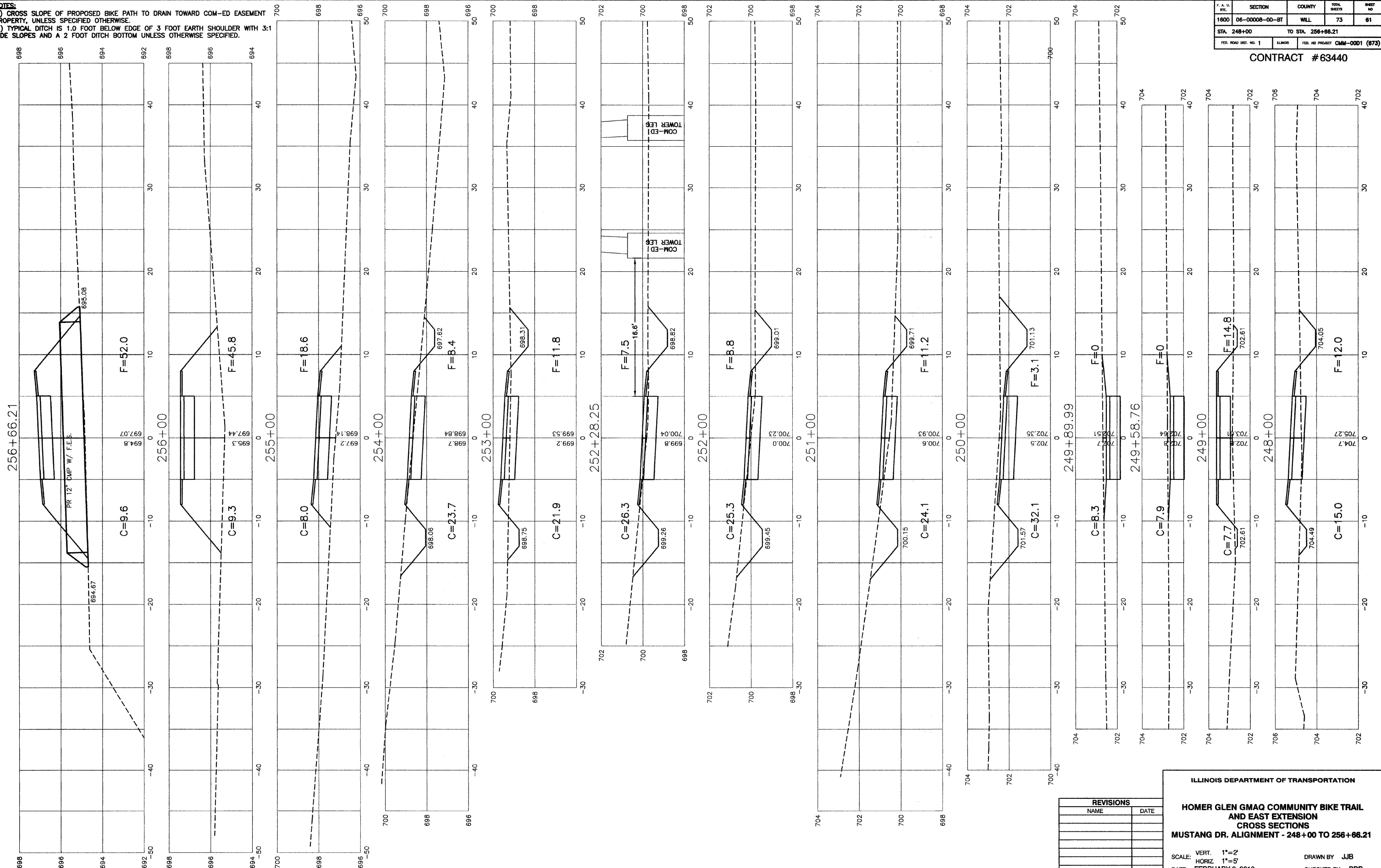
CONTRACT #63440



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL  
 AND EAST EXTENSION  
 CROSS SECTIONS  
 MUSTANG DR. ALIGNMENT - 236+50 TO 247+00**  
 SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

NOTES:  
 1.) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.



F. A. U. ETC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	61
STA. 248+00		TO STA. 256+66.21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (873)	

CONTRACT #63440

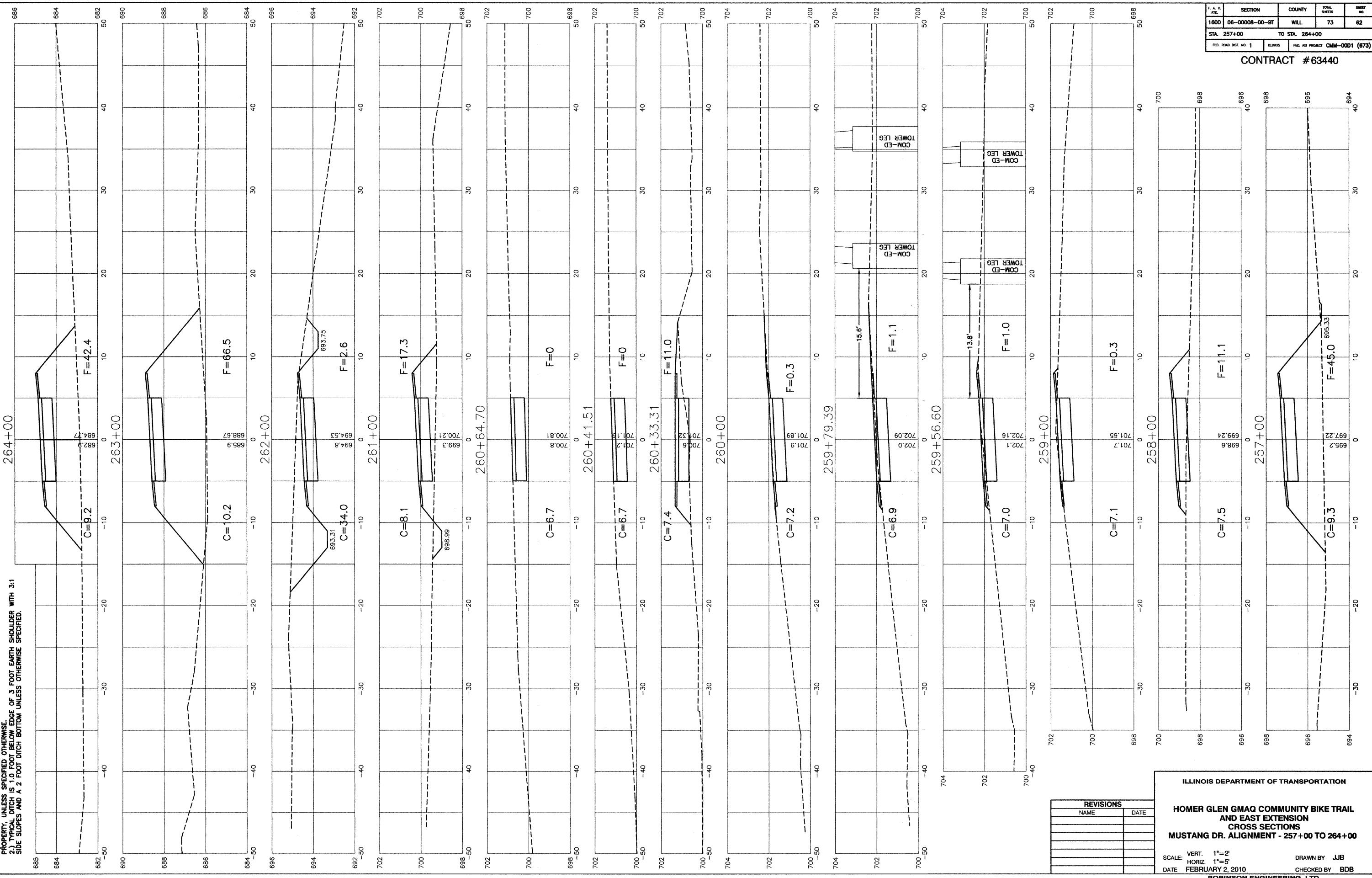
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL  
 AND EAST EXTENSION  
 CROSS SECTIONS  
 MUSTANG DR. ALIGNMENT - 248+00 TO 256+66.21**  
 SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

F. A. U. ETC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1800	06-00008-00-BT	WILL	73	62
STA. 257+00		TO STA. 264+00		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-00D1 (673)	

CONTRACT #63440

NOTES:  
 1.) GROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.



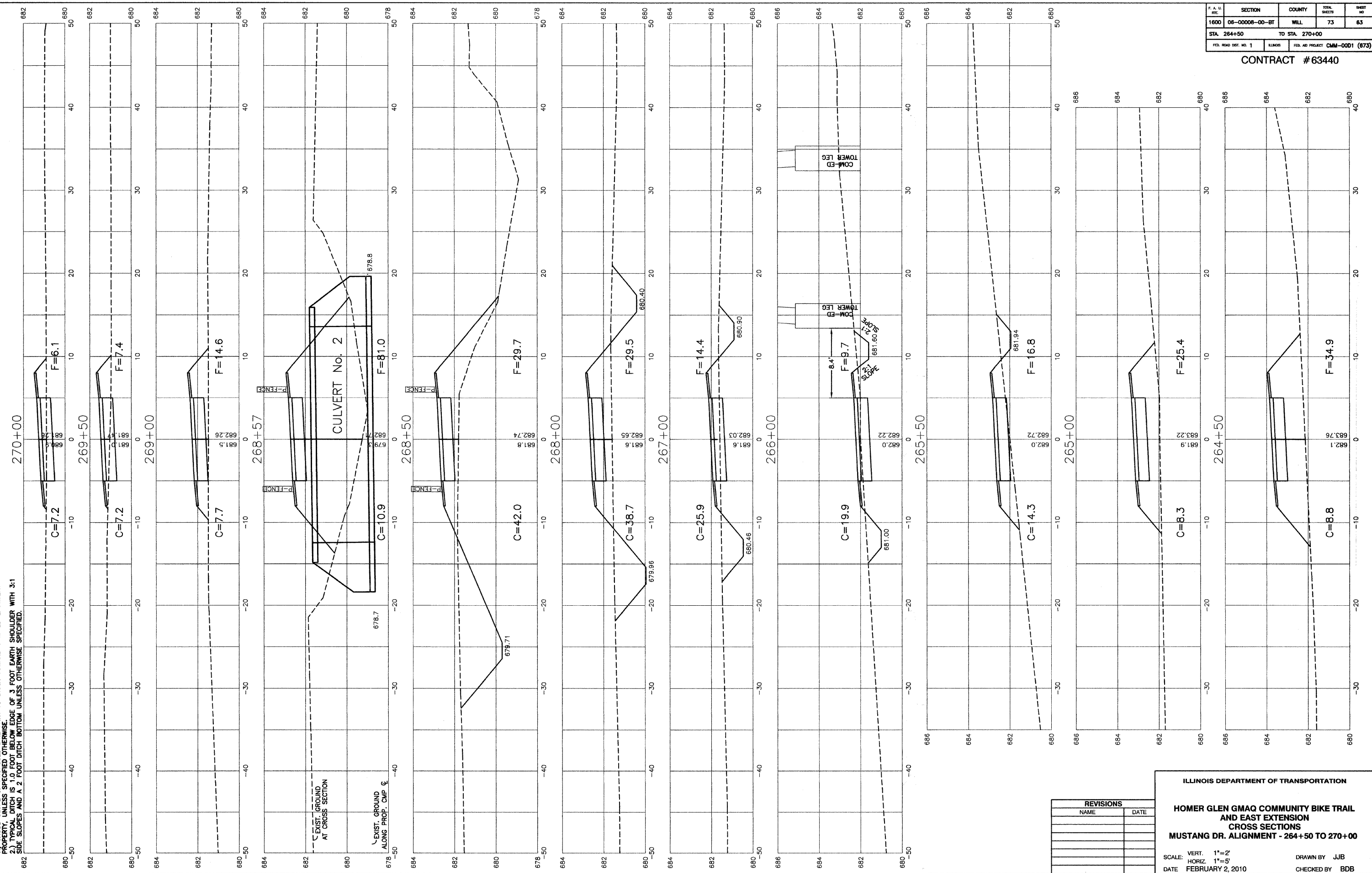
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL  
 AND EAST EXTENSION  
 CROSS SECTIONS  
 MUSTANG DR. ALIGNMENT - 257+00 TO 264+00**  
 SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

F. A. L. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	63
STA. 264+50		TO STA. 270+00		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (673)	

CONTRACT #63440

NOTES:  
 1) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.



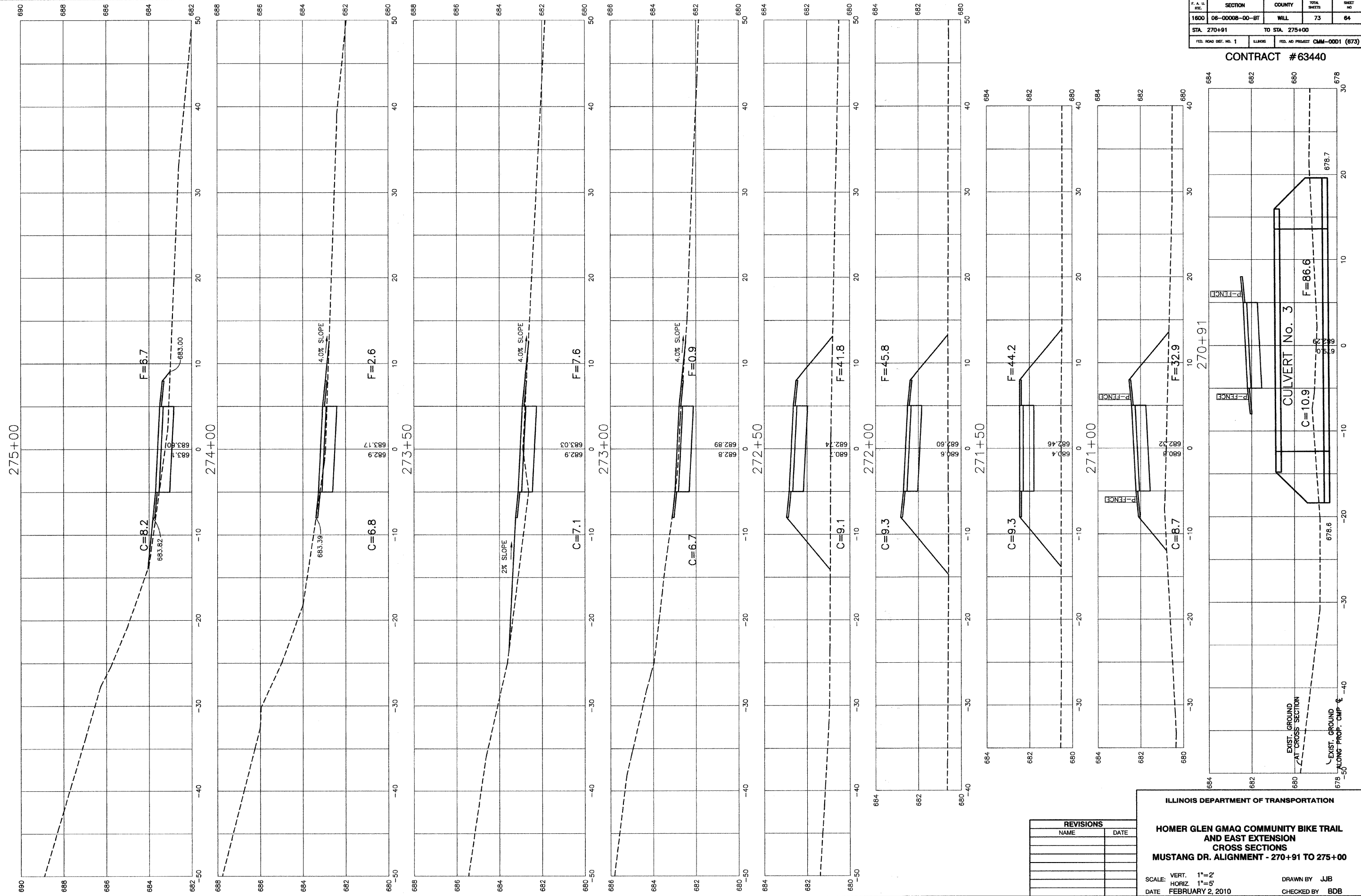
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL  
 AND EAST EXTENSION  
 CROSS SECTIONS  
 MUSTANG DR. ALIGNMENT - 264+50 TO 270+00**  
 SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

F. A. L. SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	64
STA. 270+91	TO STA. 275+00			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (673)	

CONTRACT #63440

UNLESS:  
 1.) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.



REVISIONS	
NAME	DATE

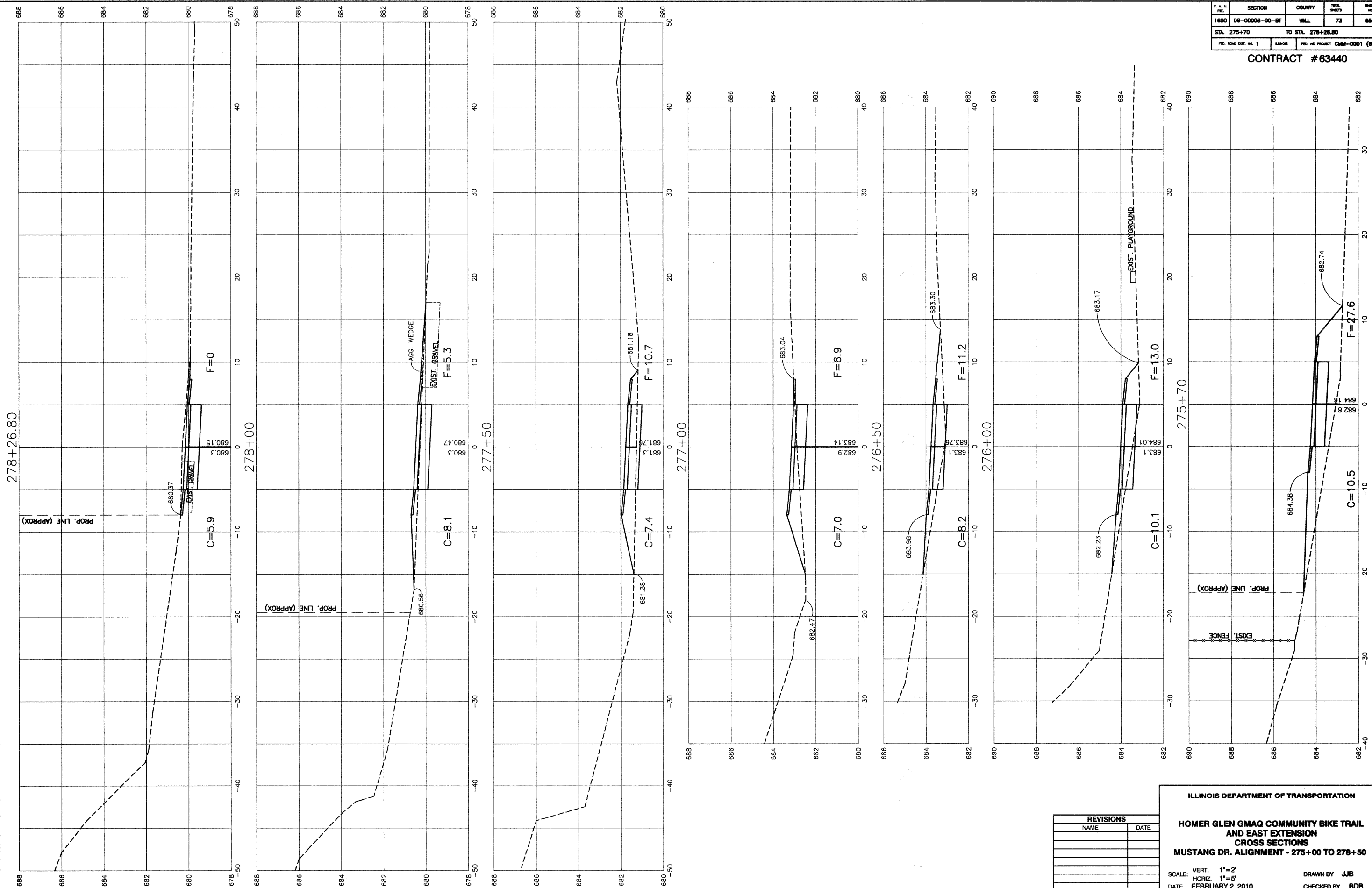
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL  
 AND EAST EXTENSION  
 CROSS SECTIONS  
 MUSTANG DR. ALIGNMENT - 270+91 TO 275+00**  
 SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB



F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1800	08-00008-00-8T	WILL	73	66
STA. 275+70		TO STA. 278+26.80		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CAM-0001 (873)	

CONTRACT # 63440

NOTES:  
 1.) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.



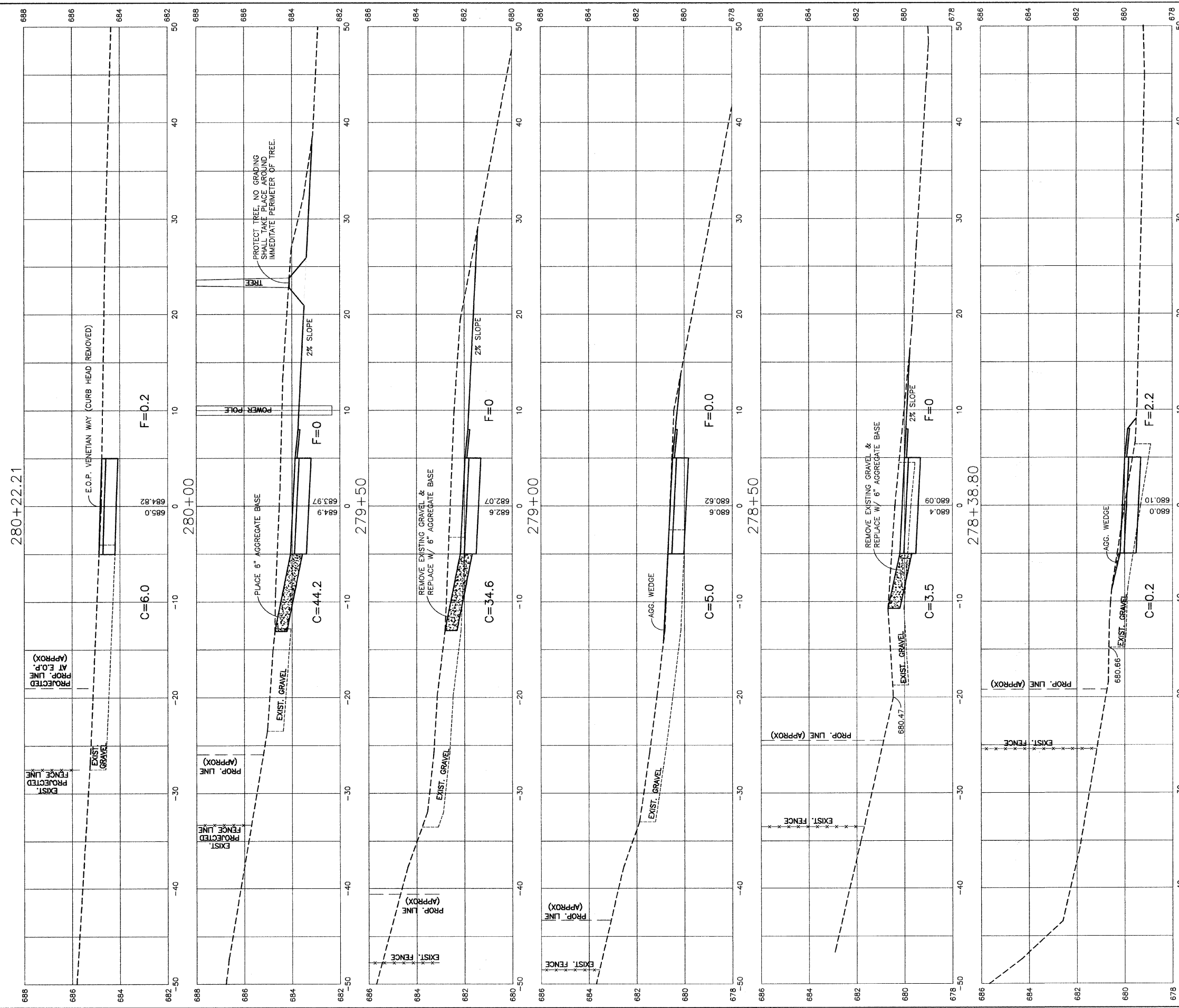
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION**  
**CROSS SECTIONS**  
**MUSTANG DR. ALIGNMENT - 275+00 TO 278+50**  
 SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1800	06-00008-00-BT	WILL	73	86
STA. 278+38.80		TO STA. 280+22.21		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-0001 (673)		

CONTRACT #63440

- NOTES:**
- 1.) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.
  - 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION CROSS SECTIONS**

**MUSTANG DR. ALIGNMENT - 278+38.80 TO 280+22.21**

SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'

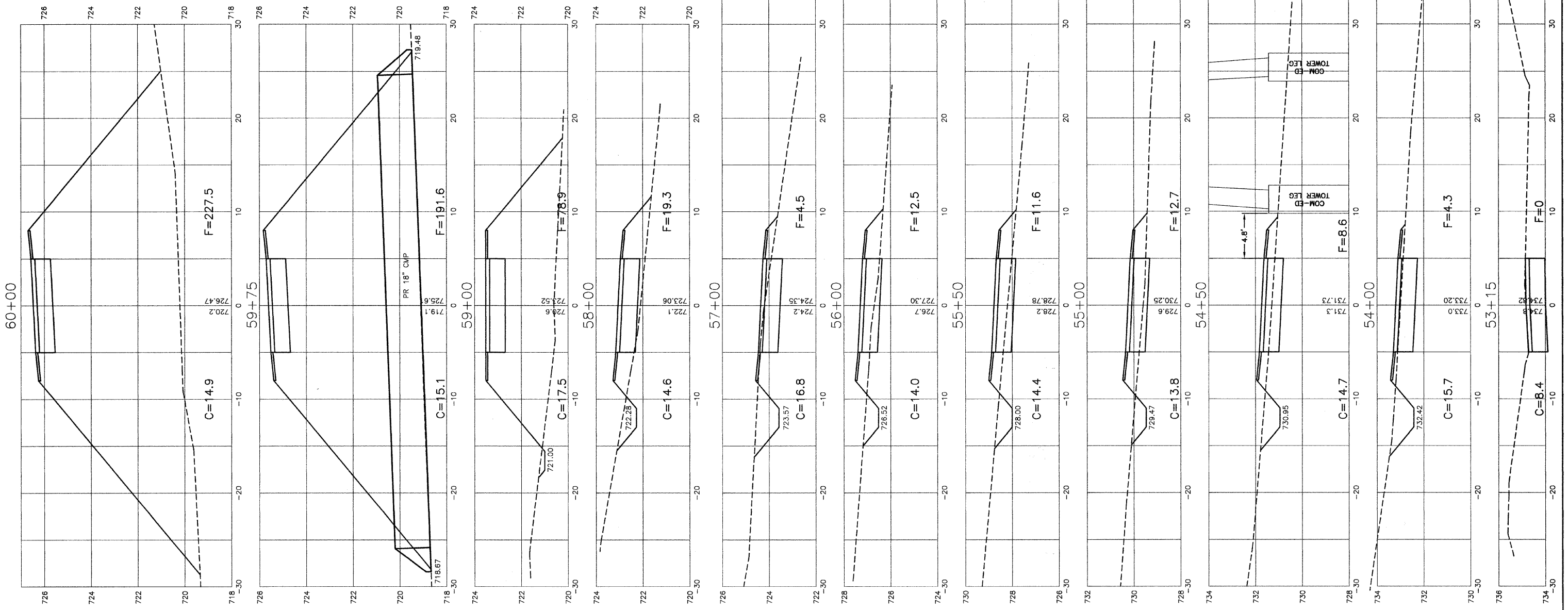
DATE: FEBRUARY 2, 2010

DRAWN BY: JJB  
 CHECKED BY: BDB

**NOTES:**  
 1.) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.

F. A. U. R.C.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	67
STA. 53+15		TO STA. 60+00		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (673)	

CONTRACT #63440



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION CROSS SECTIONS PIN OAK DR. ALIGNMENT - 53+15 TO 60+00**

SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'

DATE: FEBRUARY 2, 2010

DRAWN BY: JJB  
 CHECKED BY: BDB

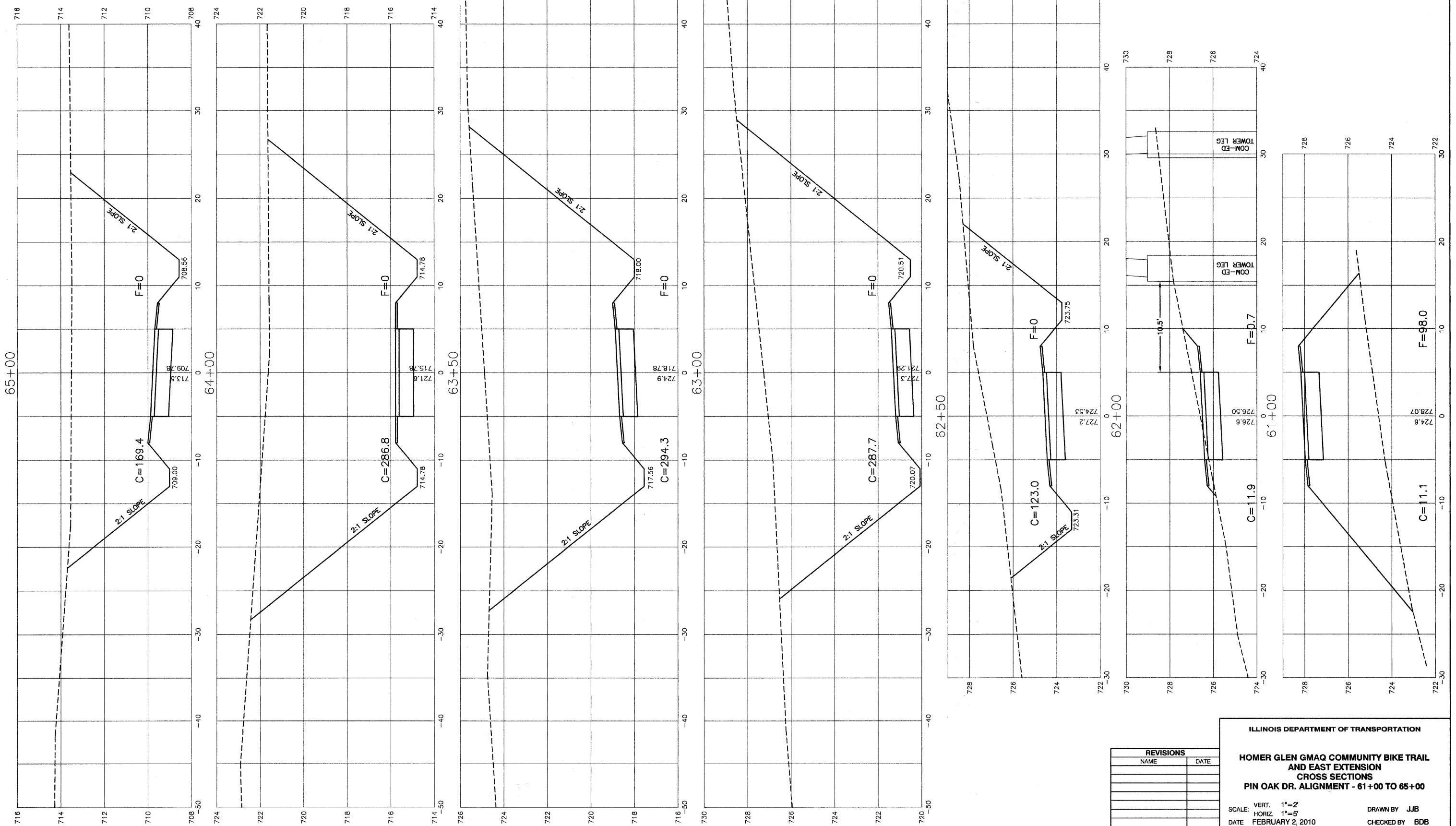
**ROBINSON ENGINEERING, LTD.**  
 1700 SOUTH PARK AVENUE, SOUTH HOLLAND, ILLINOIS 60488  
 (708) 331-6700 FAX (708) 331-3638  
 ILLINOIS DESIGN FIRM REGISTRATION NO. 184601188

06231-XSCT-09-P2

F. A. U. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	68
STA. 61+00	TO STA. 65+00			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (673)	

CONTRACT #63440

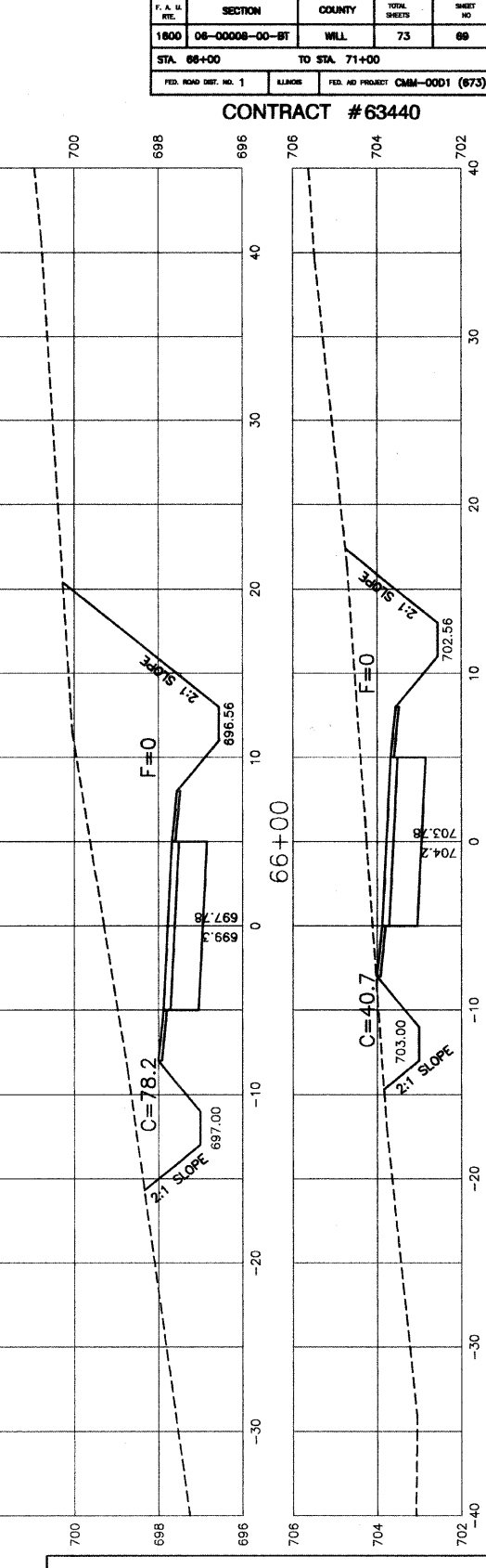
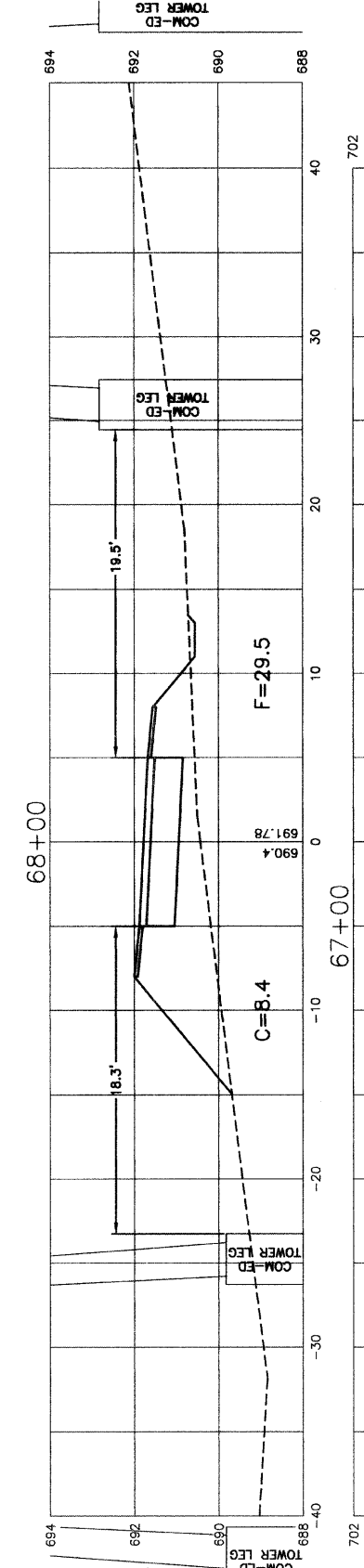
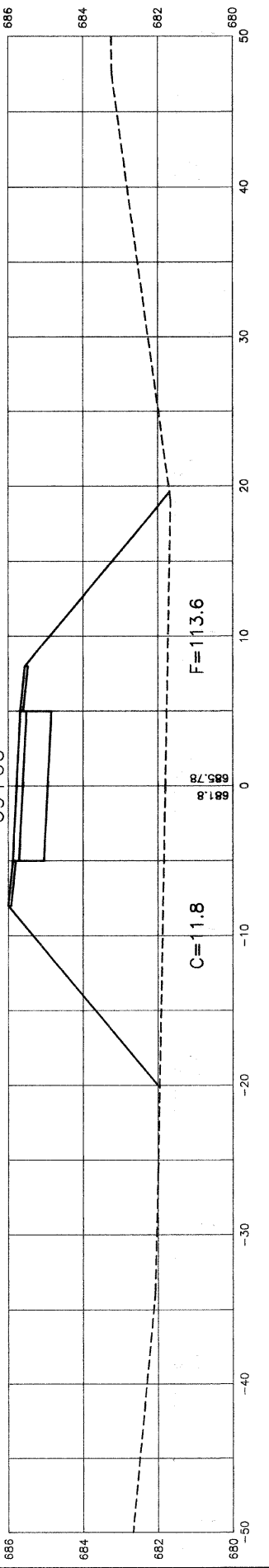
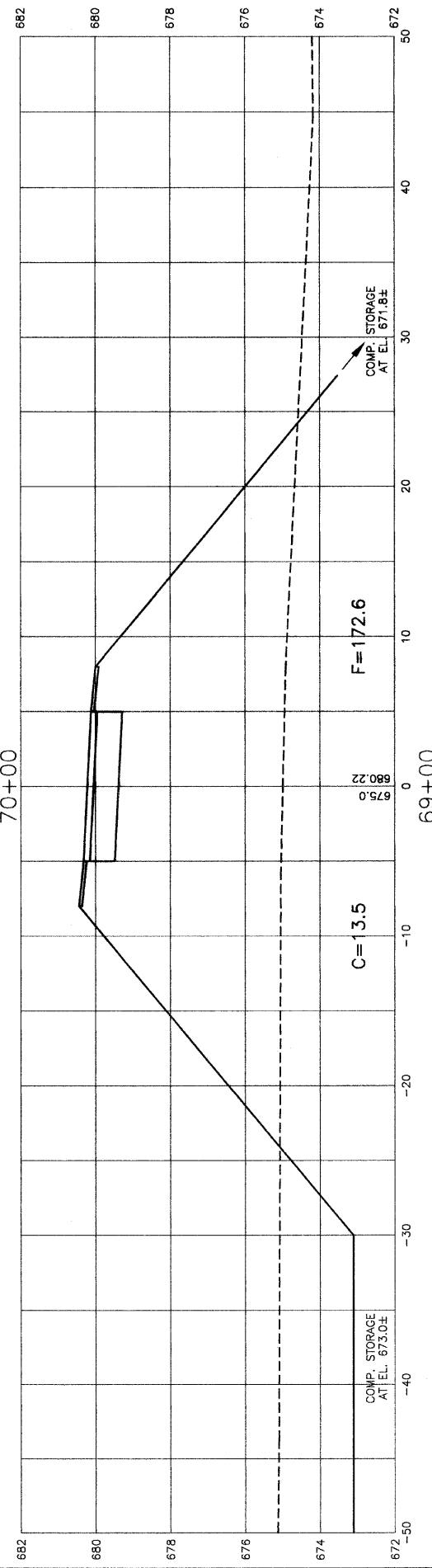
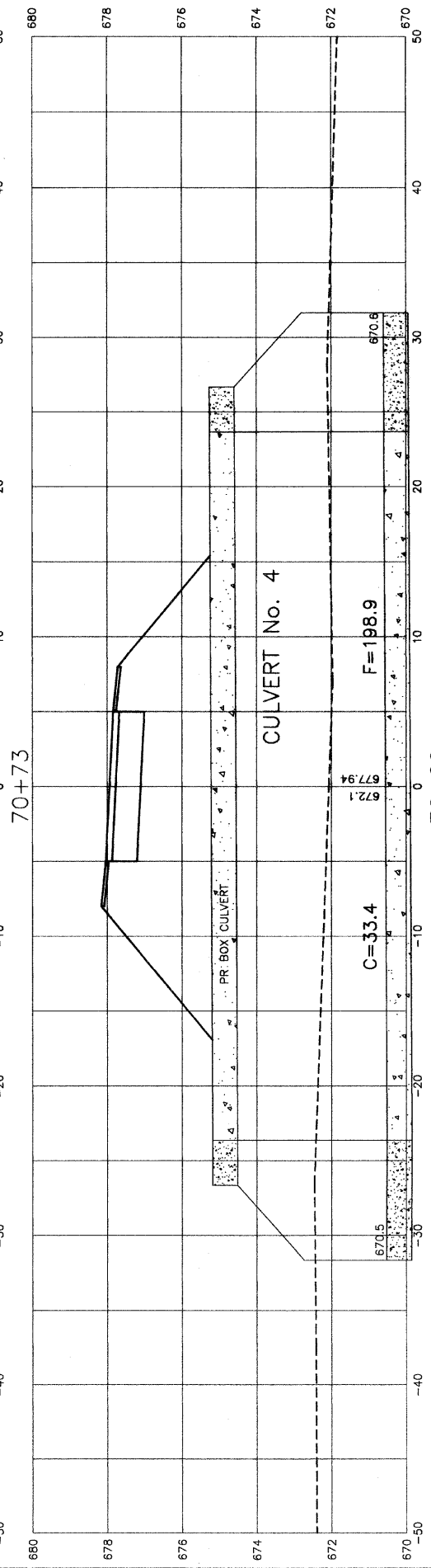
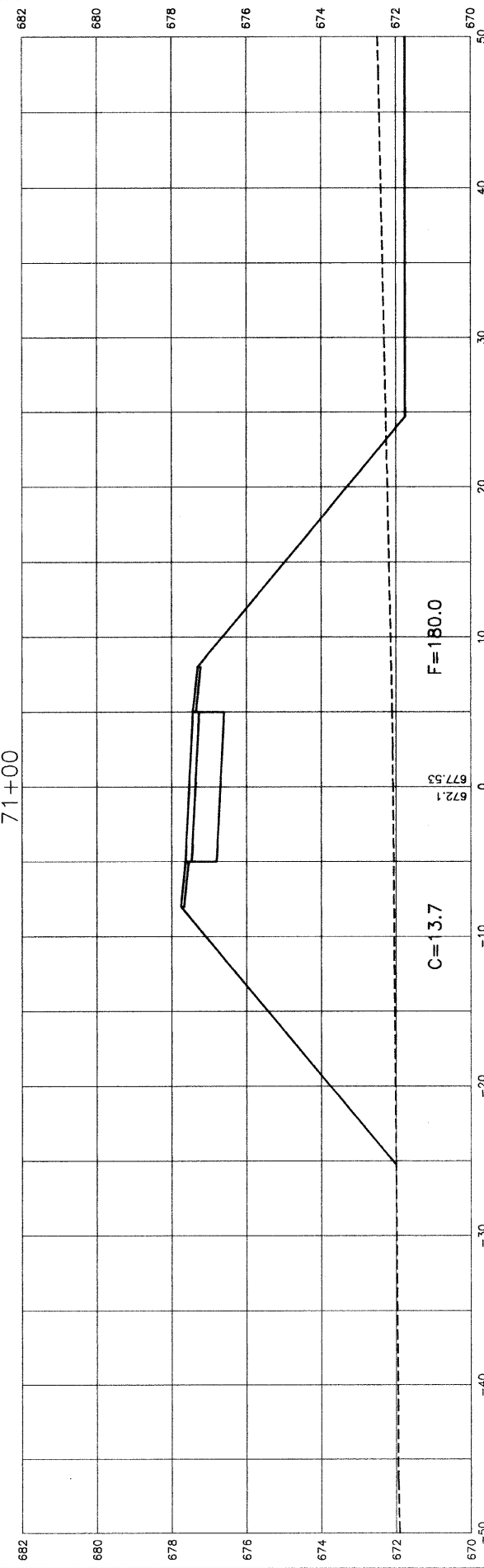
**NOTES:**  
 1.) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION CROSS SECTIONS**  
**PIN OAK DR. ALIGNMENT - 61+00 TO 65+00**  
 SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB  
**ROBINSON ENGINEERING, LTD.**  
 1700 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60471  
 (708) 331-8700 FAX (708) 331-8866  
 ILLINOIS DESIGN FIRM REGISTRATION NO. 184007158 06231-XSCT-09-P2

NOTES:  
 1.) GROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.



F. A. U. R. E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1800	06-00006-00-01	WILL	73	69
STA. 66+00	TO STA. 71+00			
FED. ROAD DIST. NO. 1	ALIGN.	FED. AID PROJECT	CMM-0001 (673)	

CONTRACT #63440

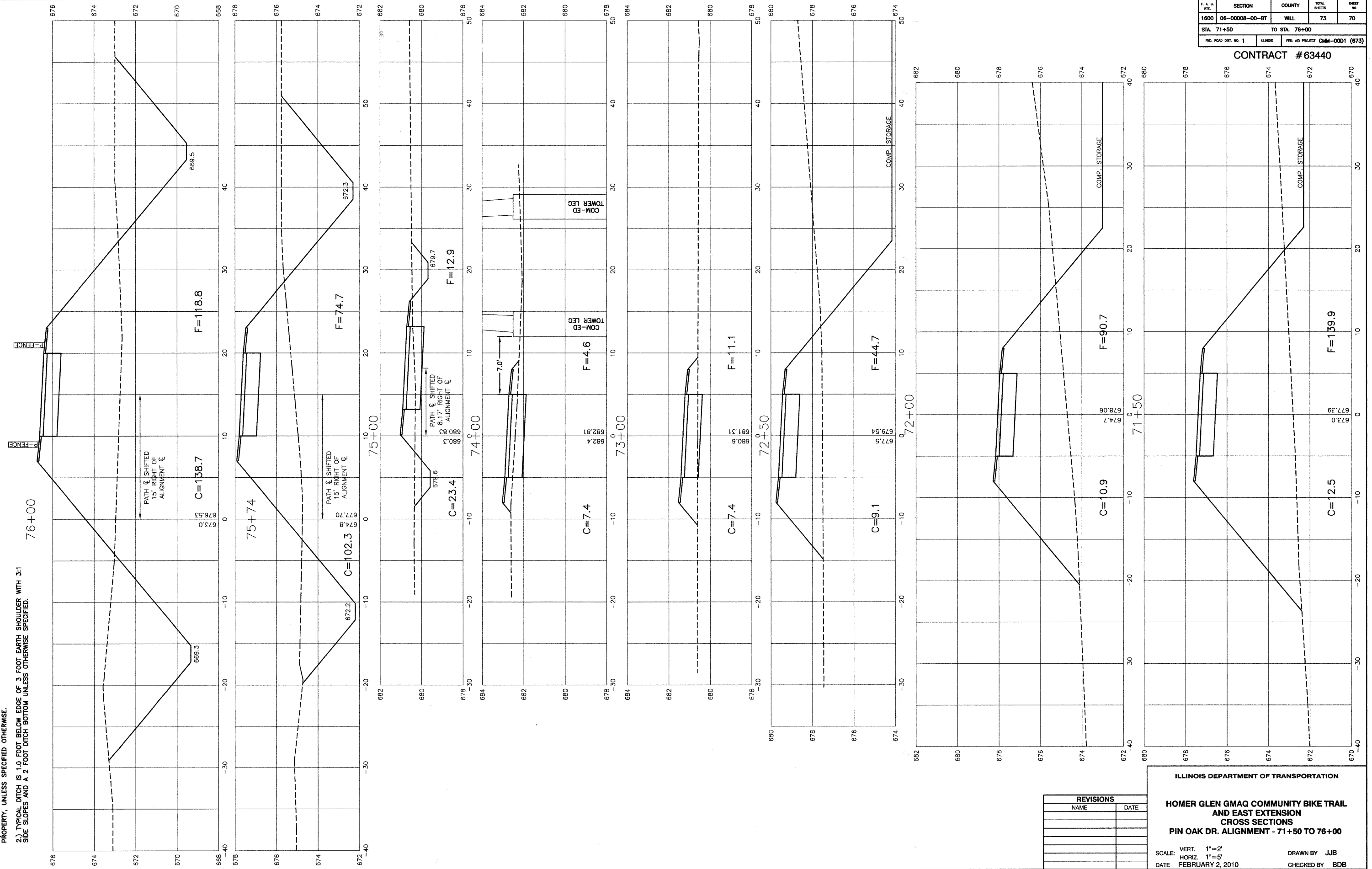
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION CROSS SECTIONS**  
 PIN OAK DR. ALIGNMENT - 66+00 TO 71+00  
 SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

F. A. L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1800	06-00008-00-BT	WILL	73	70
STA. 71+50		TO STA. 76+00		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CMM-0001 (873)	

CONTRACT #63440

NOTES:  
 1.) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.  
 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.

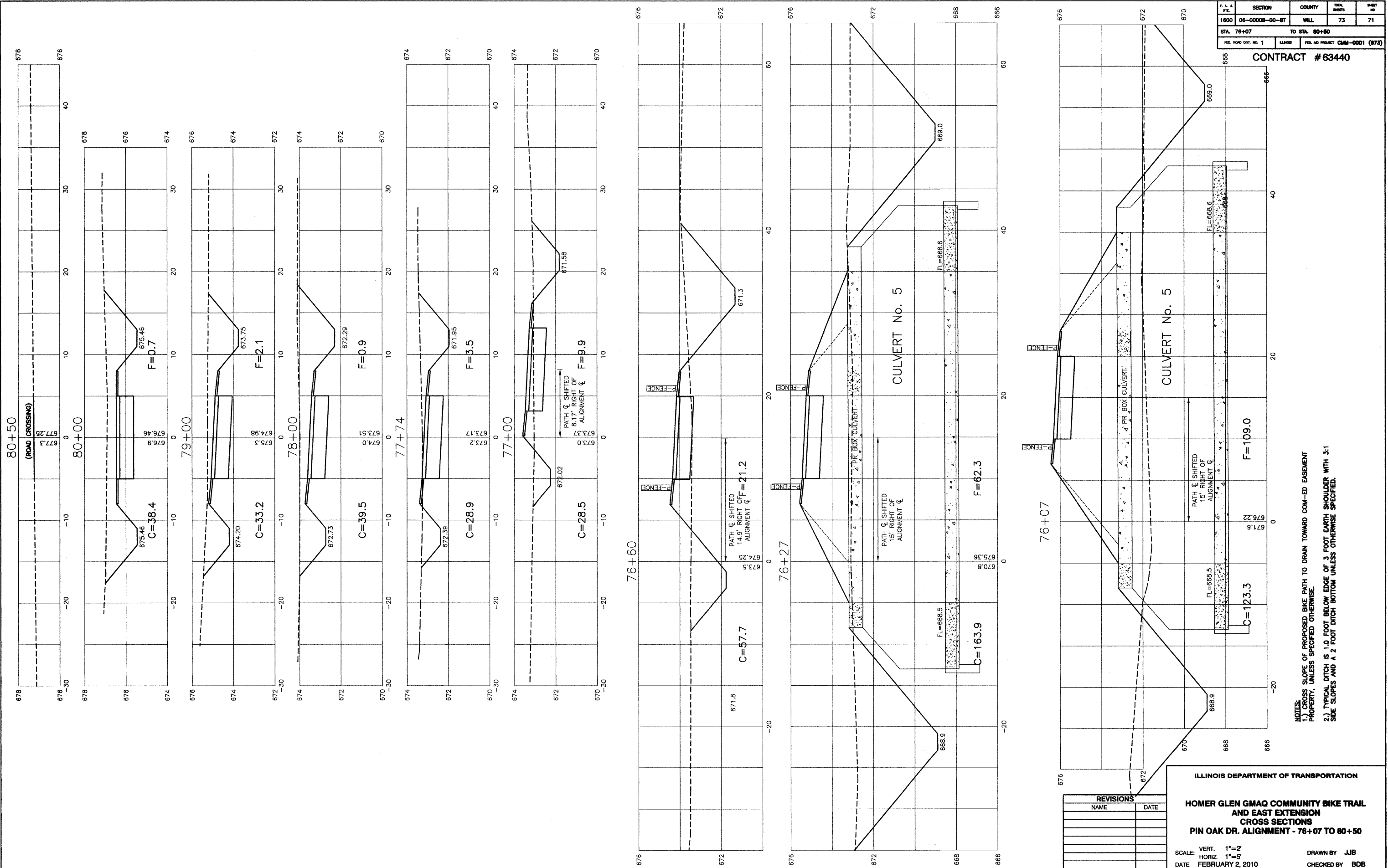


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL  
 AND EAST EXTENSION  
 CROSS SECTIONS  
 PIN OAK DR. ALIGNMENT - 71+50 TO 76+00**  
 SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'  
 DATE: FEBRUARY 2, 2010  
 DRAWN BY: JJB  
 CHECKED BY: BDB

F. A. U. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	71
STA. 76+07	TO STA. 80+50			
FED. ROAD DIST. NO. 1	ALLIANCE	FED. AID PROJECT	CMM-0001 (673)	

CONTRACT #63440



- NOTES:
- 1.) CROSS SLOPE OF PROPOSED BIKE PATH TO DRAIN TOWARD COM-ED EASEMENT PROPERTY, UNLESS SPECIFIED OTHERWISE.
  - 2.) TYPICAL DITCH IS 1.0 FOOT BELOW EDGE OF 3 FOOT EARTH SHOULDER WITH 3:1 SIDE SLOPES AND A 2 FOOT DITCH BOTTOM UNLESS OTHERWISE SPECIFIED.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**HOMER GLEN GMAQ COMMUNITY BIKE TRAIL AND EAST EXTENSION**

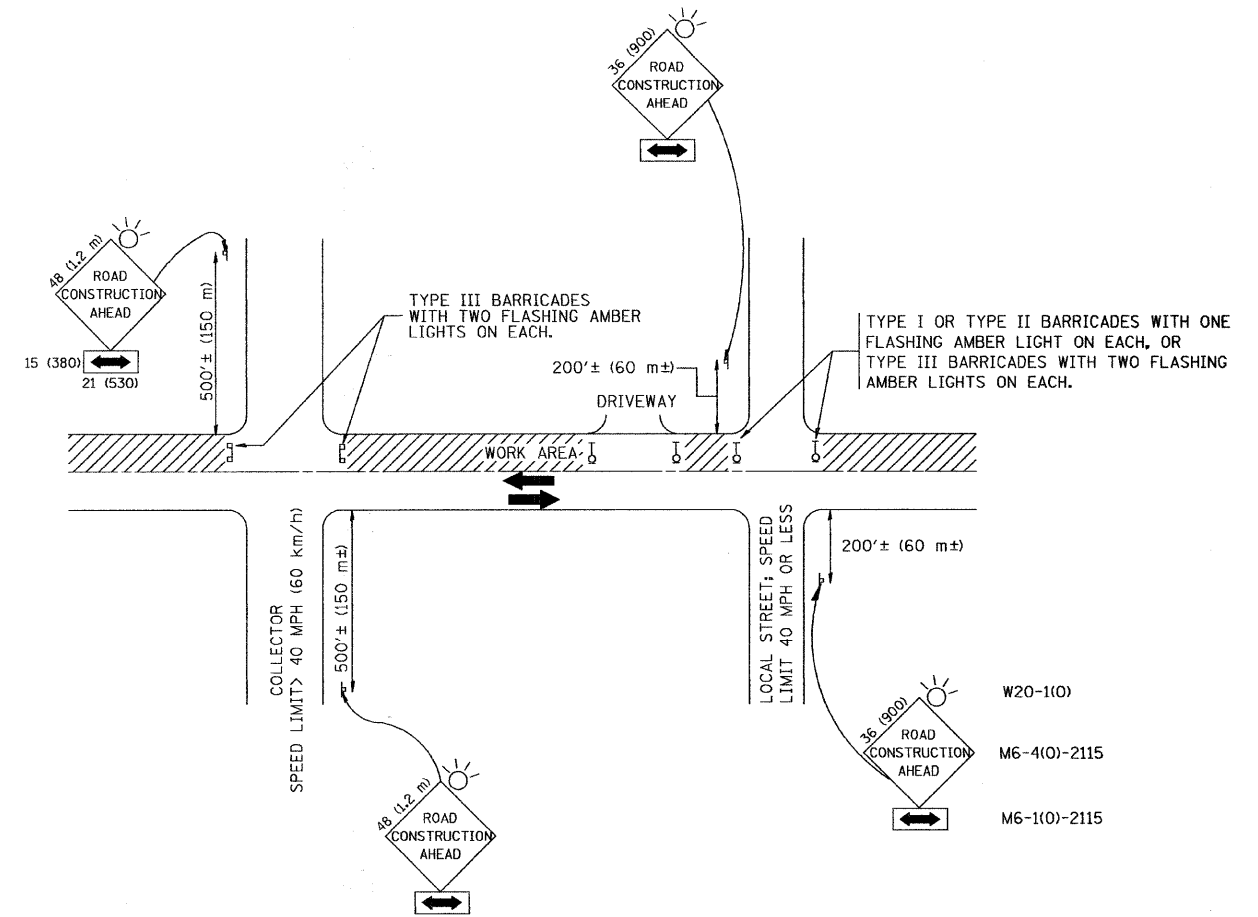
**CROSS SECTIONS**

**PIN OAK DR. ALIGNMENT - 76+07 TO 80+50**

SCALE: VERT. 1"=2'  
 HORIZ. 1"=5'

DATE: FEBRUARY 2, 2010

DRAWN BY: JJB  
 CHECKED BY: BDB



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
  - 1. 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:
    - a) 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.
    - b) 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.
  - 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - a) 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.
    - b) 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.
- 3. 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.

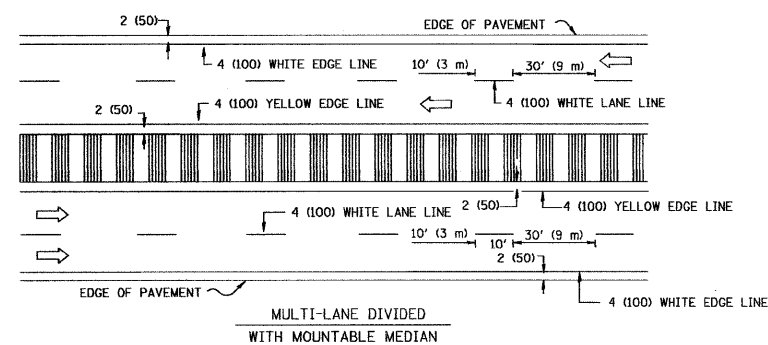
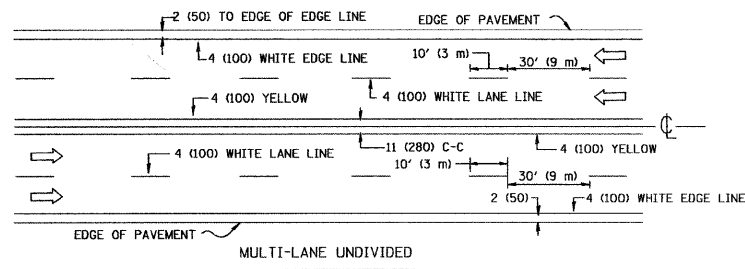
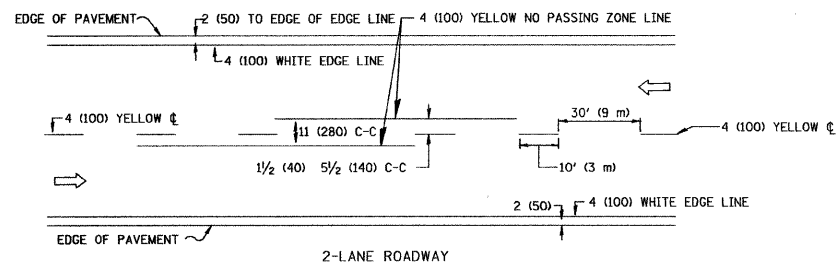
FILE NAME = 06231-SGNL-DTIS-02 - TC-10	USER NAME = gaglianobt	DESIGNED — LHA	REVISED —
		CHECKED —	REVISED —
	PLOT SCALE = 50.000 / IN.	DRAWN — CMM-001 (673)	REVISED —
	PLOT DATE = 1/4/2008	CHECKED — 06-89	REVISED —

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			
SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

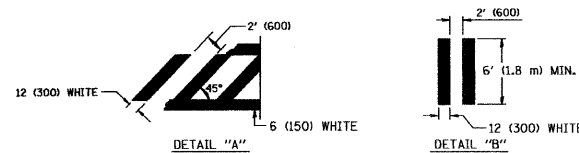
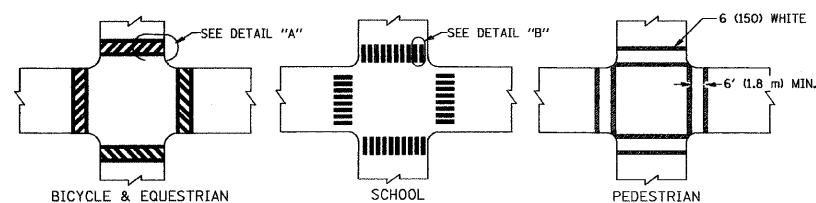
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1600	06-00008-00-BT	WILL	73	72
CONTRACT NO. 63440				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-0001 (673)				



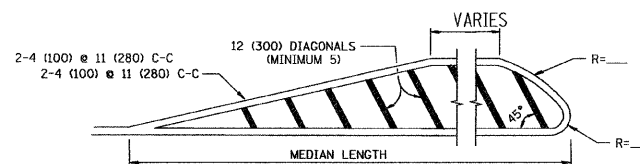
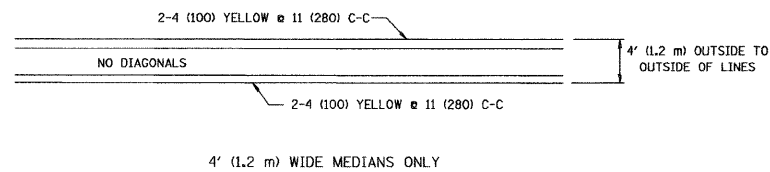


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING



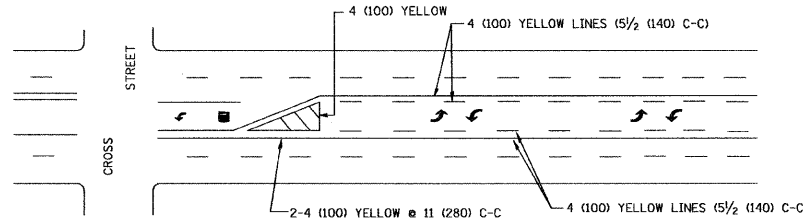
TYPICAL CROSSWALK MARKING



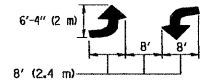
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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 (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

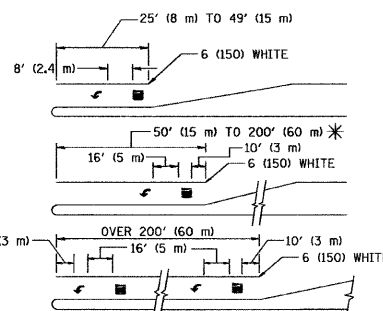


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

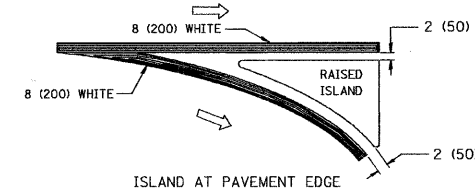
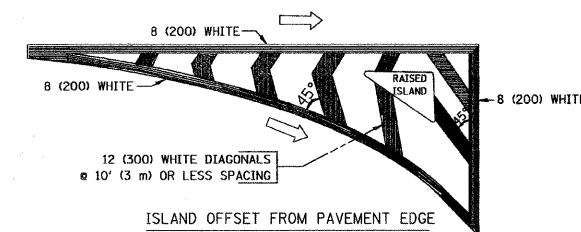


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

\* 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



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	5/2 (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 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE 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 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
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 = 06231-SGML-DTLS-03 - TC-13	USER NAME = d-ivakosgn	DESIGNED = EVERS	REVISED = T. RAMMACHER 10-27-94
		CHECKED =	REVISED = C. JUCIUS 09-09-09
	PLOT SCALE = 58.8000' / IN.	DRAWN =	REVISED =
	PLOT DATE = 9/9/2009	CHECKED = 03-19-90	REVISED =

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		1600	06-00008-00-0T	WILL	73	73
		TC-13		CONTRACT NO. 63440		
SCALE:	SHEET NO. 1 OF 1 SHEETS	STA. N/A	TO STA. N/A		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CMM-0001 (673)	