04-25-14 LETTING ITEM 162

CONTRACT # 91470

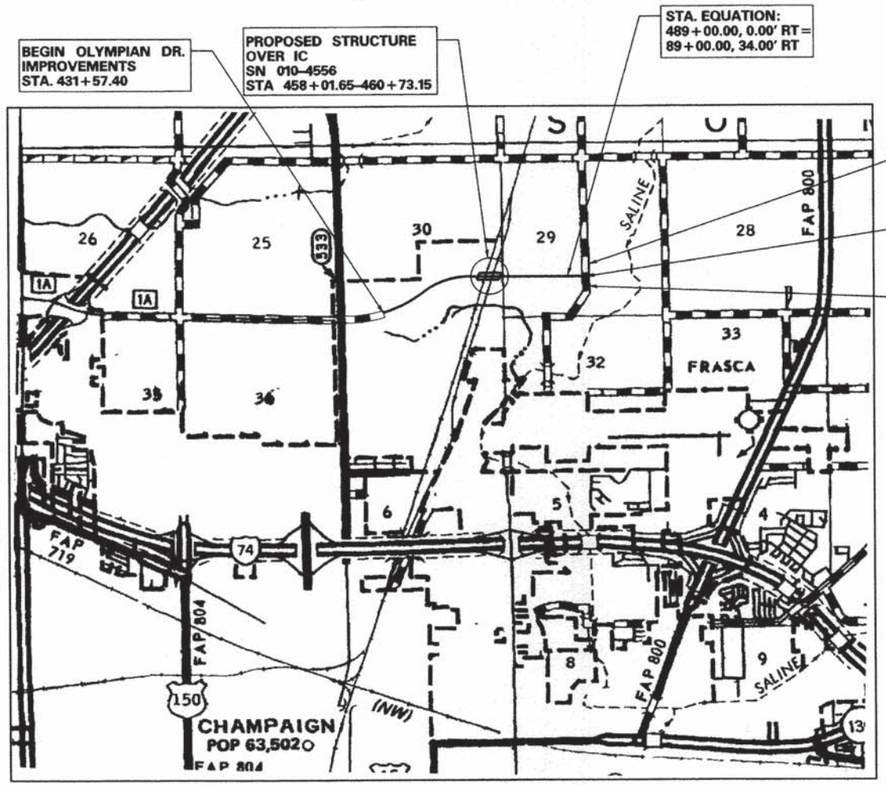
INDEX OF SHEETS

LIST OF STANDARDS

SEE GENERAL NOTES SHEET FOR IDOT STANDARDS

PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 813 (OLYMPIAN DRIVE)
CHAMPAIGN COUNTY
SECTION 99–00259–01–PV
PROJECT # M–5181(050)
CONTRACT # 91470
JOB # C–95–322–12



AREA LOCATION PLAN

0 1 2 3 MILES

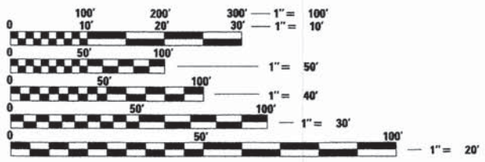
LOCATION OF SECTION INDICATED THUS: –

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

811 Know what's below. Call before you dig.

UTILITY NOTE

THE LOCATIONS OF THOSE BURIED AND ABOVEGROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVEGROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES, REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



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.

DESIGN DESIGNATION:
OLYMPIAN ADT = 12,400
FUNCTIONAL CLASSIFICATION = OTHER PRINCIPAL ARTERIAL
DESIGN SPEED = 60 mph
GROSS LENGTH OF PROJECT = 6423.01 ft. (1.22 mi.)
NET LENGTH OF PROJECT = 6423.01 ft. (1.22 mi.)

JOHN M. HEYEN 062-058721 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

SIGNATURE: J. M. Heyen
DATE SIGNED: 1-21-14
LISC. EXP. DATE: 11-30-2015

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED 1/21 20 14
William R. Gray
CITY OF URBANA

PASSED 2/28 20 14
Scott A. Tapp
ACTING DISTRICT 5 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW
2/28 20 14
Joseph E. Crowe
DEPUTY DIRECTOR OF HIGHWAYS, REGION 3 ENGINEER

PROJECT MANAGER – JIM MOLL (217)788–2450
PROJECT ENGINEER – MATT HEYEN (217)788–2450

HANSON
Hanson Professional Services Inc.

HANSON #10L0007

GENERAL NOTES

1 ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

2 ACCESS TO ALL ENTRANCES SHALL BE MAINTAINED AT ALL TIMES.

3 IN ADDITION TO THE REQUIREMENTS OF ARTICLE 107.16, THE CONTRACTOR SHALL PROTECT THE SURFACE OF ALL BRIDGE DECKS AND BRIDGE APPROACH PAVEMENTS IN A MANNER SATISFACTORY TO THE ENGINEER BEFORE ANY EQUIPMENT IS ALLOWED TO CROSS THE STRUCTURE. PROTECTION SHALL BE PROVIDED FOR ALL EQUIPMENT, AS DEFINED IN ARTICLE 101.17, REGARDLESS IF TRACK MOUNTED OR WHEELED.

4 BEFORE ORDERING PIPE CULVERTS, PIPE DRAINS, END SECTIONS OR INLETS THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR EXACT LENGTHS AND QUANTITIES REQUIRED.

5 ALL DRAINAGE STRUCTURES SHALL BE FREE OF SILT, DEBRIS, OR OTHER SUCH OBSTRUCTIONS AT THE TIME OF FINAL INSPECTION. THE CLEANING OF THESE DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE VARIOUS PAY ITEMS INVOLVED.

6 GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POST, SHRUBS, TREES OR OTHER NATURAL OR MAN-MADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION BE SUCH AS TO PRESERVE IN THE ORIGINAL STATE AS MUCH AREA OF TEMPORARY EASEMENTS AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

7 THESE PLANS HAVE BEEN PREPARED USING STANDARD SYMBOLS AS INDICATED IN THESE PLANS, AND THEY SHALL TAKE PRECEDENCE OVER THOSE SHOWN ON STANDARD 000001 IF THERE IS A CONFLICT.

8 IN ADDITION TO FIELD SURVEYS AND AERIAL SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

9 ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

10 FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF EIGHT SAND BAGS PER BARRICADE.

11 THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE BITUMINOUS SURFACE BEFORE TRAFFIC IS ALLOWED ON THE PAVEMENT.

12 SAW CUTS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR THE ITEM BEING REMOVED, IF NECESSARY, IN ORDER TO CREATE A CLEAN JOINT FOR THE CONSTRUCTION OF THE PROPOSED ITEMS.

13 EXCAVATION IN GRAVEL, RIP RAP OR OIL AND CHIP ROADWAY IS TO BE PAID AS EARTH EXCAVATION.

14 ALL OPENINGS IN PRECAST STRUCTURES SHALL BE PRECISE TO THE PROPER SIZE. THIS INCLUDES OPENINGS FOR PIPE STRUCTURES, MANHOLE OPENINGS, AND OPENINGS FOR THE PIPE STRUCTURES, MANHOLE OPENINGS, AND OPENINGS FOR PIPE UNDERDRAIN. COST FOR THESE OPENINGS AND THE CONNECTIONS SHALL BE CONSIDERED INCLUDED IN THE VARIOUS PAY ITEMS FOR THE STRUCTURES INVOLVED.

15 AT LOCATIONS WHERE END SECTIONS ARE SPECIFIED, CAST-IN-PLACE CONCRETE HEADWALL WILL NOT BE ALLOWED.

16 THE COST OF MAKING ANY SEWER CONNECTIONS TO AN EXISTING DRAINAGE STRUCTURE OR PIPE SHALL BE INCLUDED IN THE COST OF THE NEW SEWER.

17 WHERE SECTION OR SUB-SECTION MARKERS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED AGENT OR LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUB-SECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

18 WHEN REQUIRED BY ARTICLE 420.21, A PROTECTIVE COAT SHALL BE APPLIED TO CONCRETE PAVEMENT, GUTTER FLAGS, CURB SURFACES, AND OTHER CONCRETE APPURTENANCES ADJACENT TO THE PAVEMENT.

19 SPECIAL ATTENTION IS CALLED TO ARTICLE 107.12 REGARDING RAILROAD FLAGGERS. THE NAME AND TELEPHONE NUMBER FOR THE RAILROAD ENGINEER IS PAT JONES, 708-332-3557. CONTACT PAT JONES FOR RIGHT OF ENTRY AND FLAGGING WILL BE COORDINATED BY MARY ELLEN CARMODY. MARY ELLEN CAN BE REACHED AT 248-740-6227.

20 THE PROPOSED RIGHT OF WAY SHOWN IN THESE PLANS ALONG OLYMPIAN DRIVE FROM STATION 440+96.96, 108.33' LT TO STATION 458+52.00, 164.00' LT SHALL BE CONSIDERED A PERMANENT DRAINAGE EASEMENT.

COMMITMENTS

1 NO COMMITMENTS AS OF APRIL 25, 2014.

GENERAL NOTES (CONT.)

21 FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

HOT-MIXED ASPHALT - 112 LBS/SQ YD-IN
SUB-BASE GRANULAR MATERIAL & AGGREGATE BASE - 2.05 TONS/CU YD
ALL OTHER AGGREGATE - 1.89 TONS/CU YD
BITUMINOUS MATERIALS (PRIME COAT):
ON PAVEMENT - 0.1 GAL/ SQ YD
ON AGGREGATE SURFACE - 0.5 GAL/ SQ YD
RIPRAP - 1.5 TONS/CU YD
SEEDING FERTILIZER RATIO (NIT:PHOS:POT) - 90:90:90 LBS/AC
AGRICULTURAL GROUND LIMESTONE - 2.00 TONS/AC
MULCH - 2.00 TONS/AC
EARTHWORK SHRINKAGE = 15%
LIME - 50 LBS/SY

22 TOPSOIL EXCAVATED FROM WITHIN THE PROJECT LIMITS MAY BE USED AS EMBANKMENT, BUT SHALL ONLY BE PLACED AT LOCATIONS APPROVED BY THE ENGINEER.

23 ELEVATION DATA IS BASED ON NATIONAL GEODETIC VERTICAL DATUM 1988 (NGVD88).

24 CONTRACTOR WILL BE RESPONSIBLE TO HAVE ALL RAILROAD SIGNAL WIRES LOCATED BEFORE ANY DIGGING IS DONE ON IC PROPERTY. THIS MUST BE REQUESTED 5 DAYS IN ADVANCE OF ANY DIGGING BY SUBMITTING THE PROPER FORM TO MARY ELLEN CARMODY AT MARYELLEN.CARMODY@CN.CA. FORM IS INCLUDED WITH ROE.

25 ALL CONSTRUCTION RELATED ACTIVITIES SHALL BE IN COMPLIANCE WITH SPECIAL PROVISIONS FOR WORK ON CN PROPERTY, INCLUDING SAFETY, SAFETY TRAINING, FLAGGING REQUIREMENTS, TEMPORARY SHORING (AS NECESSARY) ETC. ANY TEMPORARY STRUCTURE THAT AFFECTS THE CN PROPERTY OR TRACKS (E.G. SHORING) SHALL BE SUBMITTED FOR C.N. REVIEW AND APPROVAL. ALL PLANS THAT ARE SUBMITTED TO CN MUST BE STAMPED BY APPROPRIATE LICENSED ENGINEER AND BE RECIEVED AT LEAST 2 WEEKS PRIOR TO COMMENCEMENT OF THE WORK. NO WORK SHALL COMMENCE PRIOR TO RECEIPT OF CN'S WRITTEN APPROVAL.

UTILITY NOTES

1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS.

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

UTILITY CONTACT INFORMATION

ILLINOIS AMERICAN WATER - STEVE WEGMAN, 217-373-3255
AMEREN IP (GAS AND ELECTRIC) - STEVE ESTES, 217-383-7304
COMCAST - ROBERT VALENTINE, 217-202-2644
AT&T - MIKE MURPHY, 217-398-7979
PAETEC - JEFF TAYLOR, 309-838-0788
U.S. SPRINT CORP. - JAMES BURTON, 847-318-3437

2 ANY DAMAGE TO THE UNDERGROUND FACILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE, INCLUDING TEMPORARY REPAIRS WHICH MAY BE REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. UTILITY ADJUSTMENTS SHALL BE MADE BY THE UTILITY COMPANIES UNLESS NOTED OTHERWISE.

3 ALL UTILITY FACILITIES THAT REQUIRE RELOCATION WITHIN CITY/COUNTY R.O.W. SHALL BE RELOCATED BY THE UTILITY COMPANY UNLESS OTHERWISE SHOWN IN THE PLANS.

4 ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

5 THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE BASED ON FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL OBTAIN EXACT UTILITY LOCATIONS FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION. THE FOLLOWING STANDARD UTILITY DEPTHS WERE USED IF INFORMATION WAS UNAVAILABLE:
TELEPHONE / FIBER OPTIC - 2 FEET
GAS - 2.5 FEET
CABLE TV - 1.5 FEET
ELECTRIC - 3 FEET
SANITARY SEWER - 2.5 FEET
WATER - 4 FEET

6 ALL ELECTRIC LINES WILL REMAIN ENERGIZED DURING CONSTRUCTION UNLESS OTHERWISE COORDINATED WITH THE UTILITY COMPANY.

1½"	SURFACE	①
4½"	ALL LIFTS 2¼" F.G. BINDER MIN.	②

LINCOLN AVE
HMA PAVEMENT
FULL DEPTH 6"

1½"	SURFACE	①
7½"		③

HMA SHOULDERS

LIST OF STANDARDS

000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02 AREAS OF REINFORCEMENT BARS
001006-00 DECIMAL OF AN INCH AND OF A FOOT
280001-07 TEMPORARY EROSION CONTROL SYSTEMS
420001-07 PAVEMENT JOINTS
420101-04 24' JOINTED PCC PAVEMENT
420106-04 36' JOINTED PCC PAVEMENT
420401-10 BRIDGE APPROACH PAVEMENT CONNECTOR
515001-03 NAME PLATE FOR BRIDGES
542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
542306-02 PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
542606-02 REINFORCED CONCRETE PIPE TEE
601001-04 SUB-SURFACE DRAINS
601101-01 CONCRETE HEADWALL FOR PIPE DRAIN
602301-04 INLET - TYPE A
602401-03 MANHOLE TYPE A
602701-02 MANHOLE STEPS
604001-03 FRAME AND LIDS TYPE 1
604036-02 GRATE TYPE 8
604101-01 MEDIAN INLET FOR 24" REINFORCED CONCRETE PIPE
606001-05 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
610001-06 SHOULDER INLET WITH CURB
630001-10 STEEL PLATE BEAM GUARDRAIL
630201-06 PCC / HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-06 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-12 TRAFFIC BARRIER TERMINAL, TYPE 6
635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02 REFLECTOR MARKER AND MOUNTING DETAILS
667101-02 PERMANENT SURVEY MARKERS
701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 4.5M (15') AWAY
701006-05 OFF-RD OPERATIONS, 2L, 2W, 4.5M (15') TO 600MM (24") FROM EDGE OF PAVEMENT
701011-04 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04 LANE CLOSURE, 2L, 2W, SHORT TERM OPERATIONS
701306-03 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701326-04 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901-03 TRAFFIC CONTROL DEVICES
720001-01 SIGN PANEL MOUNTING DETAILS
720006-04 SIGN PANEL ERECTION DETAILS
728001-01 TELESCOPING STEEL SIGN SUPPORT
780001-04 TYPICAL PAVEMENT MARKINGS
781001-03 TYPICAL APPLICATIONS RAISE REFLECTIVE PAVEMENT MARKERS
B.L.R. 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
B.L.R. 22-7 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO-LANE TWO WAY TRAFFIC)(ROAD CLOSED TO THRU TRAFFIC)

MINIMUM MIXTURE REQUIREMENTS

MIXTURE NUMBER:	NO. 1	NO. 2	NO. 3
LOCATION(S):	LINCOLN AVE.	LINCOLN AVE.	OLYMPIAN DR.
MIXTURE USE(S):	SURFACE AND TOP 1½" SHOULDERS	LOWER LIFTS BINDER	SHOULDERS (BOTTOM LIFTS)
AC/PG:	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX.):	*	*	*
DESIGN AIR VOIDS:	4.0% @ N DESIGN = 50	4.0% @ N DESIGN = 50	2.0% @ N DESIGN = 30
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5	IL 19.0 F.G.	OTHER
FRICTION AGGREGATE	MIX "C"		NA

* SEE RAP/RAS SPECIAL PROVISION

MINIMUM MIXTURE REQUIREMENT NOTES

IF AN ANTI-STRIPPING ADDITIVE IS REQUIRED FOR ANY HMA, THE COST OF THE ADDITIVE WILL NOT BE PAID FOR SEPARATELY AS DESCRIBED IN ARTICLE 406.14 OF THE STANDARD SPECIFICATIONS. IF THE CONTRACTOR ANTICIPATES THAT AN ADDITIVE WILL BE NEEDED, THE COST SHOULD BE INCLUDED IN THE UNIT BID PRICE FOR HMA OF THE SPECIFIED TYPE.

THE MIXTURE REQUIREMENTS SET FOR IN THE TABLE ABOVE ARE MINIMUM MIXTURE REQUIREMENTS. THE CONTRACTOR MAY SUBSTITUTE HIGHER FRICTION AGGREGATE HMA MIXTURES FOR A LOWER FRICTION AGGREGATE HMA MIXTURE AT THE CONTRACT UNIT PRICE FOR THE LOWER FRICTION AGGREGATE HMA MIXTURE. THE CONTRACTOR MAY SUBSTITUTE HIGHER DESIGN AIR VOIDS HMA MIXTURES FOR A LOWER DESIGN AIR VOIDS HMA MIXTURE AT THE CONTRACT UNIT PRICE OF THE LOWER DESIGN AIR VOIDS HMA MIXTURE. THE CONTRACTOR MAY SUBSTITUTE POLYMER HMA MIXTURES FOR A NON-POLYMER HMA MIXTURE AT THE CONTRACT UNIT PRICE OF THE NON-POLYMER HMA MIXTURE.

LAYOUT	RSJ	02/15/11
DRAWN	RSJ	02/22/11
REVIEWED	MH	01/28/13

FILE NAME = C-001-E_GN.dgn	USER NAME = johns00944	DESIGNED - M.H.	REVISED -
		DRAWN - R.S.J.	REVISED -
	PLOT SCALE = 1.0000 ' / in.	CHECKED - M.H.	REVISED -
Gen Notes	PLOT DATE = 03\11\2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, COMMITMENTS, MIXTURE REQUIREMENTS
PROPOSED OLYMPIAN DR. EAST

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	2
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

	CODE #	ITEM	UNIT	TOTAL QUANTITY	NON-GCPF ELIGIBLE	GCPF ELIGIBLE
	20200100	EARTH EXCAVATION	CU YD	342,010	17,615	324,395
	20800150	TRENCH BACKFILL	CU YD	124.0	11	113
	21000310	GRANULAR EMBANKMENT, SPECIAL	CU YD	794	437	357
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	3,571	1,965	1,606
	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	14,350	2,270	12,080
Δ	25000310	SEEDING, CLASS 4	ACRE	5.25		5.25
Δ	25000312	SEEDING, CLASS 4A	ACRE	31.25	5.00	26.25
Δ	25000350	SEEDING, CLASS 7	ACRE	36.75	5.00	31.75
Δ	25000400	NITROGEN FERTILIZER NUTRIENT	POUNDS	3,302	450	2,852
Δ	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUNDS	3,302	450	2,852
Δ	25000600	POTASSIUM FERTILIZER NUTRIENT	POUNDS	3,302	450	2,852
Δ	25000700	AGRICULTURAL GROUND LIMESTONE	TONS	73.4	10.0	63.4
Δ	25100115	MULCH, METHOD 2	ACRES	36.75	5.00	31.75
Δ	25100630	EROSION CONTROL BLANKET	SQ YD	28,254		28,254
Δ	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	3,668	500	3,168
	28000305	TEMPORARY DITCH CHECKS	FOOT	1,520	500	1,020
	28000400	PERIMETER EROSION BARRIER	FOOT	4,195	870	3,325
	28000500	INLET AND PIPE PROTECTION	EACH	22	5	17
	28000510	INLET FILTERS	EACH	4		4
	28100101	STONE RIPRAP, CLASS A1	SQ YD	2,212		2,212
	28100105	STONE RIPRAP, CLASS A3	SQ YD	819	170	649
	28100107	STONE RIPRAP, CLASS A4	SQ YD	2,212		2,212
	28200200	FILTER FABRIC	SQ YD	3,031	170	2,861
	30200650	PROCESSING MODIFIED SOIL 12"	SQ YD	34,669	18,264	16,405
	30201500	LIME	TON	866.7	456.6	410.1
	40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	401	327	74.0
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	120	120	
•	40603082	HOT-MIX ASPHALT BINDER COURSE, IL-19.0 FG, N50	TON	414	414	

*** "SEE SPECIAL PROVISIONS, HIGHWAY STANDARDS, GENERAL NOTES, AND/OR DETAILS IN PLANS"**

Δ SPECIALTY ITEMS

LAYOUT	B.J.B	01/28/13
DRAWN	B.J.B	01/28/13
REVIEWED	M.H	01/28/13

FILE NAME = C-601-E_SQ.dgn	USER NAME = johns00944	DESIGNED - M.H.	REVISED -
		DRAWN - B.J.B.	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED - M.H.	REVISED -
SQQ Sheet 1	PLOT DATE = 03\10\2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
PROPOSED OLYMPIAN DR. EAST

SCALE: NTS | SHEET NO. 1 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	3
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

CODE #	ITEM	UNIT	TOTAL QUANTITY	NON-GCPF ELIGIBLE	GCPF ELIGIBLE
40603310	HOT-MIX ASPHALT SURFACE COURSE MIX "C" N50	TON	148	148	
40800010	BITUMINOUS MATERIALS (PRIME COAT)	GAL	997	997	
42000401	PORTLAND CEMENT CONCRETE PAVEMENT 9" (JOINTED)	SQ YD	17,854	9,823	8,031
42001300	PROTECTIVE COAT	SQ YD	17,854	9,823	8,031
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	396		396
44000100	PAVEMENT REMOVAL	SQ YD	1,468	1,468	
44000300	CURB REMOVAL	FOOT	64	64	
44004250	PAVED SHOULDER REMOVAL	SQ YD	150	150	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	517	517	
48203033	HOT-MIX ASPHALT SHOULDERS, 9"	SQ YD	13,205	5,501	7,704
50200100	STRUCTURE EXCAVATION	CU YD	447		447
50300225	CONCRETE STRUCTURES	CU YD	319.4		319.4
50300255	CONCRETE SUPERSTRUCTURE	CU YD	449.5		449.5
50300260	BRIDGE DECK GROOVING	SQ YD	1,537		1,537
50300300	PROTECTIVE COAT	SQ YD	1,881		1,881
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1
50500505	STUD SHEAR CONNECTORS	EACH	5,580		5,580
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	169,680		169,680
51100100	SLOPE WALL 4 INCH	SQ YD	61		61
51100300	SLOPE WALL 6 INCH	SQ YD	871		871
51201800	FURNISHING STEEL PILES HP14X73	FOOT	2,762		2,762
51202305	DRIVING PILES	FOOT	2,762		2,762
51203800	TEST PILE STEEL HP14X73	EACH	4		4
51500100	NAME PLATES	EACH	1		1
52000110	PREFORMED JOINT STRIP SEAL	FOOT	96		96
52100520	ANCHOR BOLTS, 1"	EACH	72		72
54213447	END SECTIONS 12"	EACH	4		4
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	3	2	1

Δ SPECIALTY ITEMS

*** "SEE SPECIAL PROVISIONS, HIGHWAY STANDARDS, GENERAL NOTES, AND/OR DETAILS IN PLANS"**

LAYOUT	B.JB	01/28/13
DRAWN	B.JB	01/28/13
REVIEWED	MH	01/28/13

FILE NAME = C-681-E_SQ.dgn	USER NAME = johns00944	DESIGNED - M.H.	REVISED -
		DRAWN - B.J.B.	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED - M.H.	REVISED -
SQQ Sheet 2	PLOT DATE = 03\10\2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
PROPOSED OLYMPIAN DR. EAST

SCALE: NTS | SHEET NO. 2 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	4
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

CODE #	ITEM	UNIT	TOTAL QUANTITY	NON-GCPF ELIGIBLE	GCPF ELIGIBLE
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1		1
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	2		2
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	10		10
54213693	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 48"	EACH	12		12
54214719	PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELLIPTICAL, EQUIVALENT ROUND-SIZE 24"	EACH	8	4	4
54215760	METAL END SECTION, EQUIVALENT ROUND-SIZE 15"	EACH	2	2	
54216982	REINFORCED CONCRETE PIPE TEE, 48" PIPE WITH 18" RISER	EACH	1		1
54248510	CONCRETE COLLAR	CU YD	1		1
542A0217	PIPE CULVERTS, CLASS A, TYPE 1 12"	FOOT	37	37	
542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	137	125	12
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	90		90
542A0235	PIPE CULVERTS, CLASS A, TYPE 1 30"	FOOT	214		214
542A0241	PIPE CULVERTS, CLASS A, TYPE 1 36"	FOOT	220		220
542A0253	PIPE CULVERTS, CLASS A, TYPE 1 48"	FOOT	96		96
542A3403	PIPE CULVERTS, CLASS A, TYPE 5 48"	FOOT	554		554
542A4663	PIPE CULVERTS, CLASS A, TYPE 7 48"	FOOT	606		606
542A5479	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 24"	FOOT	224	148	76
542D5470	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 15"	FOOT	35	35	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	102		102
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	16	4	12
60100945	PIPE DRAINS 12"	FOOT	140		140
• 60107600	PIPE UNDERDRAINS 4"	FOOT	10,625	4,627	5,998
• 60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	350	79	271
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1		1
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1	1	
60240361	INLETS, TYPE B, WITH MEDIAN INLET (604101)	EACH	1		1
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B 6.18	FOOT	94	94	
60900515	CONCRETE THRUST BLOCKS	EACH	4		4

*** "SEE SPECIAL PROVISIONS, HIGHWAY STANDARDS, GENERAL NOTES, AND/OR DETAILS IN PLANS"**

Δ SPECIALTY ITEMS

LAYOUT	B.JB	01/28/13
DRAWN	B.JB	01/28/13
REVIEWED	MH	01/28/13

FILE NAME = C-601-E_SQ.dgn	USER NAME = johns00944	DESIGNED - M.H.	REVISED -
		DRAWN - B.J.B.	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED - M.H.	REVISED -
SQQ Sheet 3	PLOT DATE = 03\18\2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
PROPOSED OLYMPIAN DR. EAST

SCALE: NTS | SHEET NO. 3 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	5
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

	CODE #	ITEM	UNIT	TOTAL QUANTITY	NON-GCPF ELIGIBLE	GCPF ELIGIBLE
	61000225	TYPE F INLET BOX, STANDARD 610001	EACH	4		4
	61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	5,300	2,300	3,000
	61100605	MISCELLANEOUS CONCRETE	CU YD	11	4	7
	61101007	STORM SEWERS PROTECTED, CLASS A, 6"	FOOT	1,500	600	900
	61101009	STORM SEWERS PROTECTED, CLASS A, 8"	FOOT	1,500	600	900
	61101013	STORM SEWERS PROTECTED, CLASS A, 12"	FOOT	1,500	600	900
	61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	10	4	6
	61139900	STORM SEWERS (SPECIAL), 6"	FOOT	1,500	600	900
	61140000	STORM SEWERS (SPECIAL), 8"	FOOT	1,500	600	900
	61140200	STORM SEWERS (SPECIAL), 12"	FOOT	1,500	600	900
Δ	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	2,675		2,675
Δ	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4		4
Δ	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4		4
	66101150	HOT-MIX ASPHALT SHOULDER CURB	FOOT	46		46
	66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	1		1
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	24	5	19
	67100100	MOBILIZATION	L SUM	1	0.2	0.8
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
	70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
	70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1	0.2	0.8
	72000100	SIGN PANEL - TYPE 1	SQ FT	129	129	
	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	4	4	
	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	402.0	402.0	
Δ	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2,840	2,840	
Δ	78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	52	52	
Δ	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	22,175	8,855	13,320
Δ	78009005	MODIFIED URETHANE PAVEMENT MARKING - LINE 5"	FOOT	1,900	1,900	

*** "SEE SPECIAL PROVISIONS, HIGHWAY STANDARDS, GENERAL NOTES, AND/OR DETAILS IN PLANS"**

Δ SPECIALTY ITEMS

HANSON

LAYOUT	B.B.	01/28/13
DRAWN	B.B.	01/28/13
REVIEWED	MH	01/28/13

FILE NAME = C-601-E.SO.dgn	USER NAME = johns00944	DESIGNED - M.H.	REVISED -
		DRAWN - B.J.B.	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED - M.H.	REVISED -
SOO Sheet 4	PLOT DATE = 02\24\2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
PROPOSED OLYMPIAN DR. EAST

SCALE: NTS | SHEET NO. 4 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	6
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

	CODE #	ITEM	UNIT	TOTAL QUANTITY	NON-GCPF ELIGIBLE	GCPF ELIGIBLE
Δ	78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	760	760	
Δ	78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	104	104	
Δ	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	126	88	38
Δ	78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	4		4
Δ	• 78200410	GUARDRAIL MARKERS, TYPE A	EACH	13		13
Δ	• 78200520	BARRIER WALL MARKER, TYPE B	EACH	3		3
Δ	• 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4		4
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	440	440	
Δ	81101000	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., GALVANIZED STEEL	FOOT	263		263
Δ	C2008224	SHRUB, ROSA NEARLY WILD (NEARLY WILD SHRUB ROSE), 24" HEIGHT, CONTAINER	EACH	20	20	
Δ	C2C02624	SHRUB, EUONYMUS ALATA COMPACTA (DWARF WINGED EUONYMUS), 24" HEIGHT, CONTAINER	EACH	18	18	
Δ	D2002172	EVERGREEN, PICEA PUNGENS (COLORADO SPRUCE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	2	2	
Δ	K0012990	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT	UNIT	1	1	
	• X0324079	EXISTING FIELD TILE REMOVAL	FOOT	1,907		1,907
	• X0326911	TRANSVERSE DRAINS COMPLETE	EACH	6		6
	• X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	310		310
	• X5040100	PRECAST BRIDGE APPROACH SLAB	SQ FT	2,680		2,680
Δ	• X5091730	BRIDGE FENCE RAILING (SPECIAL)	FOOT	534		534
	• X5210140	HIGH LOAD MULTI-ROTATIONAL BEARINGS, GUIDED EXPANSION, 350K	EACH	12		12
	• X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	210		210
	• X6015000	REMOVE CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4		4
	• X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.2	0.8
	• X7040650	REMOVE TEMPORARY CONCRETE BARRIER	FOOT	20	20.0	
	• Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.2	0.8
	• Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	1	1	
	• Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	176		176
	• Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1		1
	• Z0065704	BITUMINOUS COATED AGGREGATE SLOPEWALL 6"	SQ YD	656		656

*** "SEE SPECIAL PROVISIONS, HIGHWAY STANDARDS, GENERAL NOTES, AND/OR DETAILS IN PLANS"**

Δ SPECIALTY ITEMS

HANSON

LAYOUT	B.B	01/28/13
DRAWN	B.B	01/28/13
REVIEWED	MH	01/28/13

FILE NAME = C-681-E_SO.dgn	USER NAME = johns80944	DESIGNED - M.H.	REVISED -
		DRAWN - B.J.B.	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED - M.H.	REVISED -
SOO Sheet 5	PLOT DATE = 03\18\2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
PROPOSED OLYMPIAN DR. EAST

SCALE: NTS | SHEET NO. 5 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	7
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

	CODE #	ITEM	UNIT	TOTAL QUANTITY	NON-GCPF ELIGIBLE	GCPF ELIGIBLE
	• Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	232		232
+	* Z0076600	TRAINEES	HOUR	1,000		
+	* Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1,000		

* "SEE SPECIAL PROVISIONS, HIGHWAY STANDARDS, GENERAL NOTES, AND/OR DETAILS IN PLANS"

Δ SPECIALTY ITEMS
+ 0042

LAYOUT	B.B	01/28/13
DRAWN	B.B	01/28/13
REVIEWED	WH	01/28/13

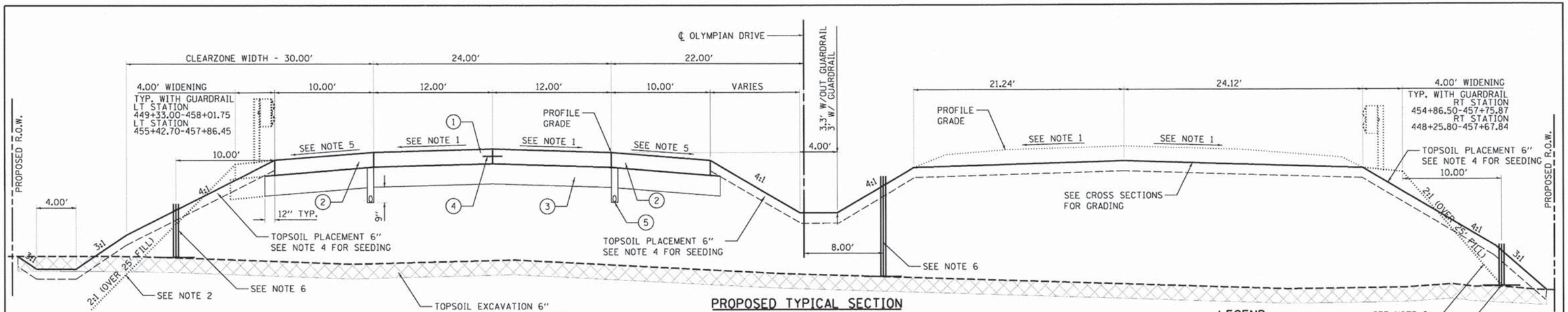
FILE NAME = C-601-E.SQ.dgn	USER NAME = johns20944	DESIGNED - M.H.	REVISED -
		DRAWN - B.J.B.	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED - M.H.	REVISED -
S00 Sheet 6	PLOT DATE = 02\24\2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
PROPOSED OLYMPIAN DR. EAST

SCALE: NTS | SHEET NO. 6 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	8
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



PROPOSED TYPICAL SECTION

STA. 435+00.00 TO STA. 457+65.55

STA. 457+65.55 TO STA. 458+94.50
TRANSITION GRADING RIGHT OF CENTERLINE
SEE CROSS SECTIONS

STA. 457+94.50 TO STA. 460+66.00
BRIDGE OMISSION

NOTES

NOTE 1.
SEE SUPERELEVATION DIAGRAM.

NOTE 2.
PROVIDE BENCH WITH DITCH IN 2:1 FORESLOPES.
SEE TYPICAL BENCH DETAIL(BELOW) AND STATION CROSS SECTIONS.

NOTE 3.
TIE BARS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE PAVEMENT.

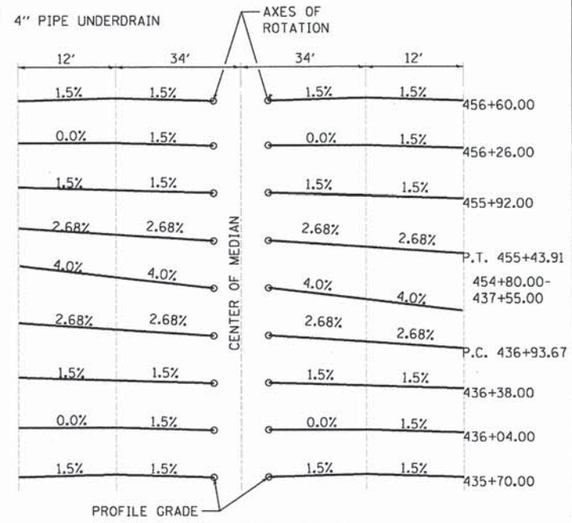
NOTE 4
CLASS 4A SEEDING (LOW-PROFILE NATIVE GRASS) SHALL BE USED IN MEDIAN AND OUTSIDE SLOPES WHEN SLOPES ARE 3:1 OR FLATTER. CLASS 4 SEEDING (NATIVE GRASS) SHALL BE USE ON ALL SLOPES STEEPER THAN 3:1.

NOTE 5
SHOULDER CROSS SLOPE = -4.00%
TRANSITION FROM NORMAL SHOULDER SLOPE TO BRIDGE SLOPE OVER 25 FOOT AT APPROACH PAVEMENT = -4.00% TO -2.00%
LT STATION 457+45.50-457+70.50
LT STATION 457+34.45-457+59.45

NOTE 6
SETTLEMENT PLATFORMS TO BE PLACED ACCORDING TO ARTICLE 404 AT 10' OFF EDGE OF SHOULDER AND 8' RIGHT OF CENTERLINE STATIONS 447+50, 452+50 AND 457+50.
SEE MISCELLANEOUS DETAILS SHEET.

LEGEND

1. PCC PAVEMENT, 9" (JOINTED)
2. HMA SHOULDERS, 9"
3. PROCESSING MODIFIED SOIL, 12"
4. NO. 6 EPOXY COATED TIE BARS AT 24" SPACING (NOTE 3)
5. 4" PIPE UNDERDRAIN

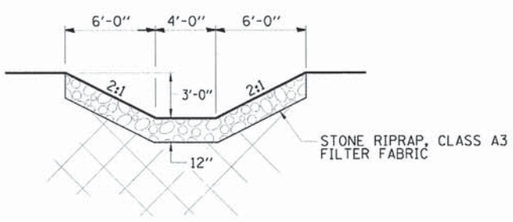


SUPERELEVATION DIAGRAM

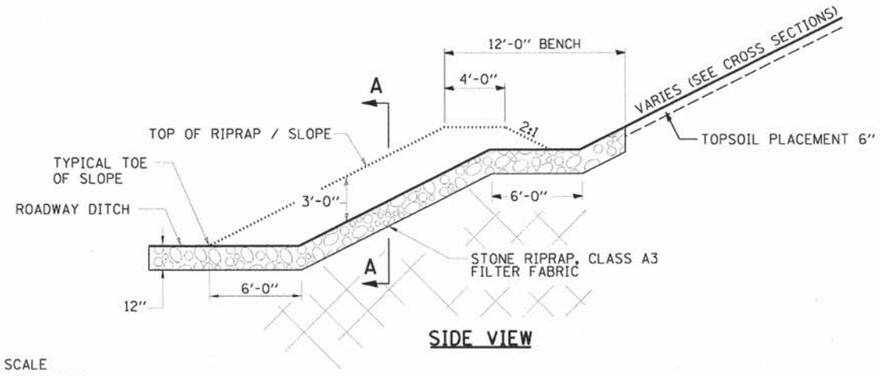
NOTE: THIS DETAIL SHALL BE APPLIED TO ALL 2:1 EMBANKMENT SLOPES.

TYPICAL BENCH DITCH IN FORESLOPES

NOT TO SCALE
SEE PLAN & PROFILES FOR EXACT LOCATIONS



A-A SECTION VIEW



SIDE VIEW

NOT TO SCALE

BENCH DRAIN DETAIL

STRUCTURAL DESIGN TRAFFIC YEAR 2023
PV = 7,632 SU = 159 MU = 159
ROAD/STREET CLASSIFICATION: CLASS I
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
P = 96% S = 2% M = 2%
TRAFFIC FACTOR: ACTUAL TF = 1.21 AC TYPE = N/A
MINIMUM TF = N/A
PG GRADE: BINDER = N/A SURFACE = N/A
SUBGRADE SUPPORT RATING:
SSR = POOR

HANSON PROFESSIONAL SERVICES INC.

LAYOUT	RSJ	02/15/11
DRAWN	RSJ	02/22/11
REVISED	MH	01/28/13

FILE NAME = c:\SH-E_TY.dgn
OLYMPIAN DR TYP

USER NAME = johns20944
PLOT SCALE = 10.0000 '/ in.
PLOT DATE = 01/21/2014

DESIGNED - M.H.
DRAWN - R.S.J.
CHECKED - M.H.
DATE - 1/21/14

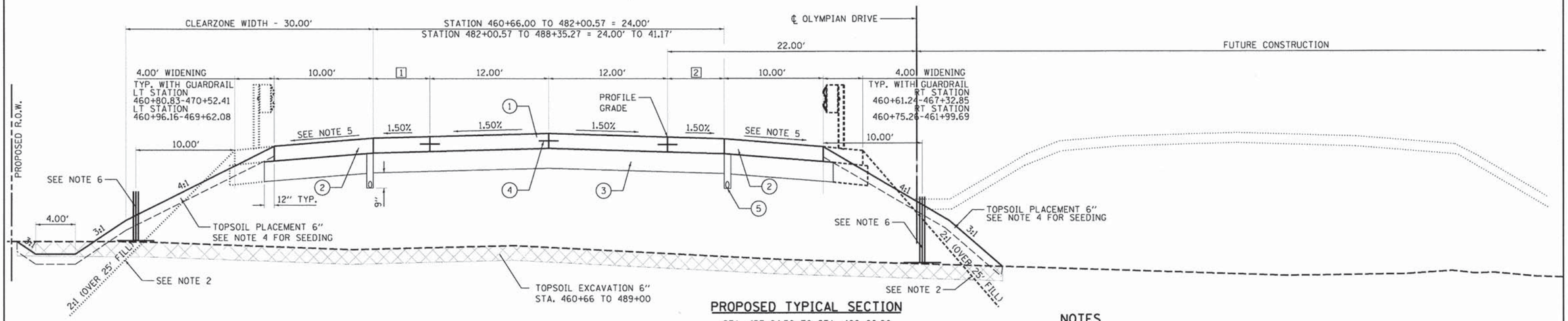
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
PROPOSED OLYMPIAN DR. EAST

SCALE: NTS | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	9
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



PROPOSED TYPICAL SECTION

STA. 457+94.50 TO STA. 460+66.00
BRIDGE OMISSION

STA. 460+66.00 TO STA. 462+00.00
TRANSITION GRADING TO TYPICAL SECTION
(SEE CROSS SECTIONS)

STA. 462+00.00 TO STA. 489+00.00

489+00.00(=89+00.00) TO STA. 92+74.03
INTERSECTION OMISSION

1 FROM STRUCTURE TO STA. 482+00.57 - 0.00'
STA. 482+00.57 TO STA. 488+20.73 - TRANSITION FROM 0.00' TO 8.67'
STA. 488+20.73 TO STA. 489+00.00 - 8.67'

2 FROM STRUCTURE TO STA. 482+40.36 - 0.00'
STA. 482+40.36 TO STA. 488+35.27 - TRANSITION FROM 0.00' TO 8.50'
STA. 488+35.27 TO STA. 489+00.00 - 8.50'

NOTES

NOTE 2.
PROVIDE BENCH WITH DITCH IN 2:1 FORESLOPES.
SEE TYPICAL BENCH DETAIL(BELOW) AND STATION CROSS SECTIONS.

NOTE 3.
TIE BARS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE PAVEMENT.

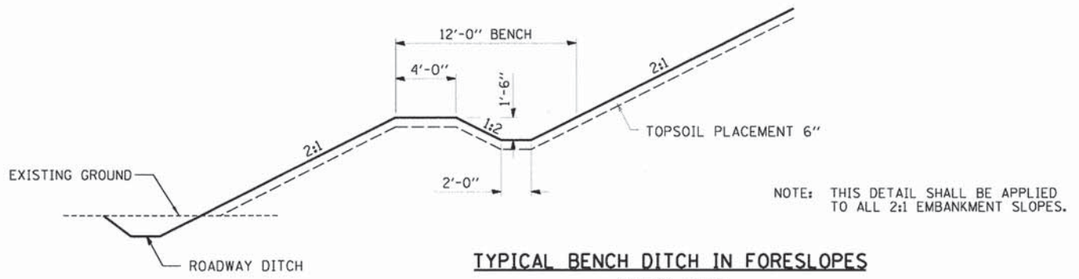
NOTE 4
CLASS 4A SEEDING (LOW-PROFILE NATIVE GRASS) SHALL BE USED IN MEDIAN AND OUTSIDE SLOPES WHEN SLOPES ARE 3:1 OR FLATTER. CLASS 4 SEEDING (NATIVE GRASS) SHALL BE USE ON ALL SLOPES STEEPER THAN 3:1.

NOTE 5
SHOULDER CROSS SLOPE = -4.00%
TRANSITION FROM NORMAL SHOULDER SLOPE TO BRIDGE SLOPE OVER 25 FOOT AT APPROACH PAVEMENT = -4.00% TO -2.00%
LT STATION 461+12.10-461+37.10
LT STATION 461+23.14-461+48.14

NOTE 6
SETTLEMENT PLATFORMS TO BE PLACED ACCORDING TO ARTICLE 404 AT 10' OFF EDGE OF SHOULDER, STATIONS 461+50, 466+50 AND 471+50.
SEE MISCELLANEOUS DETAILS SHEET.

LEGEND

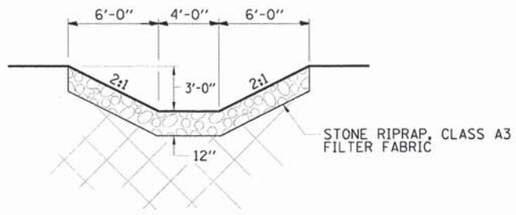
1. PCC PAVEMENT, 9" (JOINTED)
2. HMA SHOULDERS, 9"
3. PROCESSING MODIFIED SOIL, 12"
4. NO. 6 EPOXY COATED TIE BARS AT 24" SPACING (NOTE 3)
5. 4" PIPE UNDERDRAIN



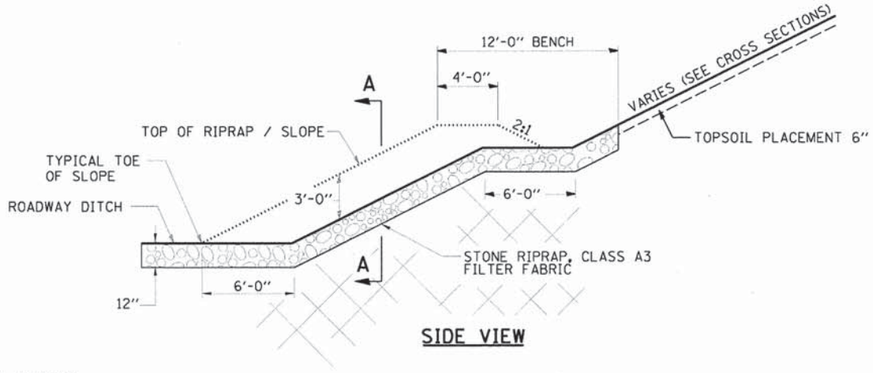
NOTE: THIS DETAIL SHALL BE APPLIED TO ALL 2:1 EMBANKMENT SLOPES.

TYPICAL BENCH DITCH IN FORESLOPES

NOT TO SCALE
SEE PLAN & PROFILES FOR EXACT LOCATIONS



A-A SECTION VIEW



SIDE VIEW

BENCH DRAIN DETAIL

NOT TO SCALE

STRUCTURAL DESIGN TRAFFIC YEAR 2023
PV = 7,632 SU = 159 MU = 159
ROAD/STREET CLASSIFICATION: CLASS I
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
P = 96% S = 2% M = 2%
TRAFFIC FACTOR: ACTUAL TF = 1.21 AC TYPE = N/A
MINIMUM TF = N/A
PG GRADE: BINDER = N/A SURFACE = N/A
SUBGRADE SUPPORT RATING:
SSR = POOR

HANSON

LAYOUT	RSJ	02/15/11
DRAW	RSJ	05/20/11
REVIEWED	MH	07/28/13

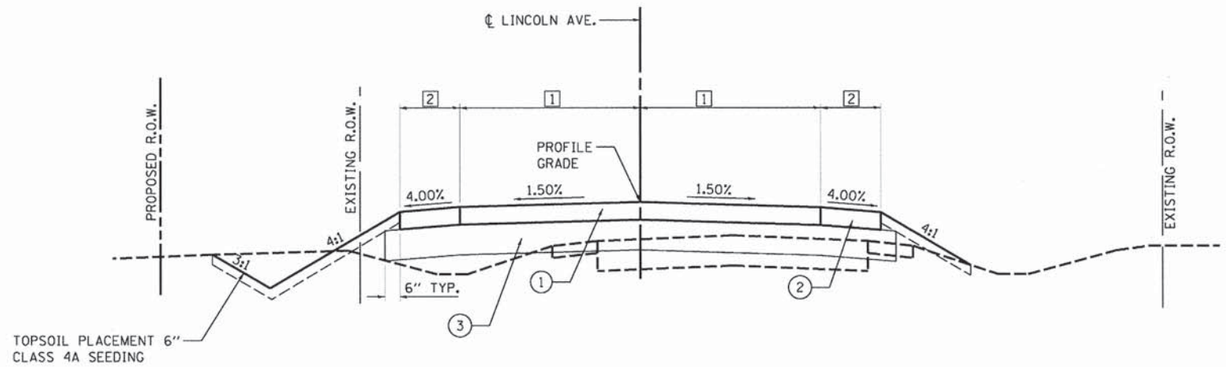
FILE NAME = C:\SD\E_TY.dgn	USER NAME = johns08944	DESIGNED - M.H.	REVISED -
		DRAWN - R.S.J.	REVISED -
	PLOT SCALE = 10.0000 '/ in.	CHECKED - M.H.	REVISED -
OLYMPIAN DR TYP	PLOT DATE = 01\21\2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
PROPOSED OLYMPIAN DR. EAST

SCALE: NTS | SHEET NO. 2 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	10
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

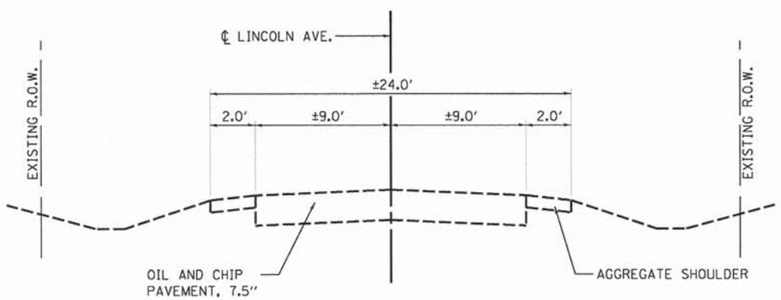


[1] STA. 199+36.74 TO 200+81.87 - TRANSITION FROM 8.9' TO 12.0'
STA. 200+81.87 TO 203+16.22 - 12.0'
STA. 206+82.28 TO 208+25.78 - 12.0'
STA. 208+25.78 TO 209+51.78 - TRANSITION FROM 12.0' TO 9.2'

[2] STA. 199+36.74 TO 200+81.87 - TRANSITION FROM 2.0' TO 4.0'
STA. 200+81.87 TO 203+16.22 - 4.0'
STA. 206+82.28 TO 208+25.78 - 4.0'
STA. 208+25.78 TO 209+51.78 - TRANSITION FROM 4.0' TO 2.0'

PROPOSED TYPICAL SECTION

STA. 199+36.74 TO STA. 203+16.22
INTERSECTION OMISSION - STA. 203+16.22 TO STA. 206+82.28
STA. 206+82.28 TO STA. 209+51.78



EXISTING TYPICAL SECTION

LINCOLN AVENUE

LEGEND

(1) TOTAL HMA MATERIAL = 6"
HMA SURFACE COURSE MIX "C", N50, 1½"
HMA BINDER COURSE, IL 19.0 FG, N50, 4½"

(2) AGG. SHOULDERS, TY. B, 6"

(3) PROCESSING MODIFIED SOIL, 12"

STRUCTURAL DESIGN TRAFFIC YEAR 2023
PV = 2,009 SU = 21 MU = 21
ROAD/STREET CLASSIFICATION: CLASS III
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
P = 95% S = 3% M = 2%
TRAFFIC FACTOR: ACTUAL TF = 0.10 AC TYPE = N/A
MINIMUM TF = N/A
PG GRADE: BINDER = N/A SURFACE = N/A
SUBGRADE SUPPORT RATING:
SSR = POOR

HANSON

LAYOUT	RSJ	02/15/11	
DRAWN	RSJ	02/22/11	
REVISED	MH	01/20/12	

FILE NAME = C:\SIL\L_TY.dgn	USER NAME = johns08944	DESIGNED - M.H.	REVISED -
		DRAWN - R.S.J.	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED - M.H.	REVISED -
LINCOLN AVE TYP	PLOT DATE = 01/21/2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
LINCOLN AVENUE

SCALE: NTS | SHEET NO. 3 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	11
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

EARTHWORK SCHEDULE

LOCATION		A	B	C	D	E	F
		EARTH EXCAVATION	EXCAVATION TO BE USED IN EMBANKMENT, ADJUSTED FOR SHRINKAGE (15%)	EMBANKMENT	EARTHWORK BALANCE EXCESS (+) OR SHORTAGE (-)	TOPSOIL EXCAVATION	TOPSOIL PLACEMENT
		CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
BEGIN STATION	END STATION						
EAST OF IC RAILROAD							
APOLLO INTERSECTION							
		16	14	240	-226	74	19
OLYMPIAN DRIVE							
435+00.00	443+70.00	11886	10103	1423	8680	99	2141
OLYMPIAN DRIVE (GCPF)							
443+70.00	458+55.28	4343	3691	172330	-168639	6689	5540
BEAVER LAKE REGIONAL DETENTION (GCPF)							
		188043	159837	2873	156964		
SUBTOTAL		**204290**	**173645**	**176865**	**-4060**	**6860**	**7700**
WEST OF IC RAILROAD							
OLYMPIAN DRIVE (GCPF)							
460+10.28	477+00.00	6148	5226	105991	-100765	5396	3941
OLYMPIAN DRIVE							
477+00.00	489+00.00	1529	1300	4670	-3370	2095	935
NORTH LINCOLN AVENUE							
199+36.86	203+16.22	120	102	326	-224		114
203+16.22 TO 206+82.28 INTERSECTION OMISSION							
206+82.28	209+21.78	116	99	69	30		68
LINCOLN\OLYMPIAN INTERSECTION							
		850	723	2700	-1978		375
EAST BORROW SITE (GCPF)							
		125861	106982	0	106982		
TRIBUTARY TO SALINE DITCH							
		3096	2632	0	2632		590
SUBTOTAL		**137720**	**117060**	**113755**	**4770**	**7490**	**6025**
	TOTAL	**342010**	**290705**	**290620**	**710**	**14350**	**13725**

SEEDING SCHEDULE

LOCATION			25000310	25000312	25000350	25000400	25000500	25000600	25000700	25100115	28000250
			SEEDING, CLASS 4	SEEDING, CLASS 4A	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2	TEMPORARY EROSION CONTROL SEEDING
			ACRES	ACRES	ACRES	POUNDS	POUNDS	POUNDS	TONS	ACRES	POUND
BEGIN STATION	END STATION	OFFSET									
OLYMPIAN/APOLLO INTERSECTION											
431+57.40	435+00.00	LT/RT		0.03	0.03	3	3	3	0.1	0.03	3
OLYMPIAN DRIVE											
435+00.00	443+70.00	LT/RT		2.71	2.71	244	244	244	5.4	2.71	271
OLYMPIAN DRIVE (GCPF)											
443+70.00	458+55.28	LT/RT	2.34		2.34	210	210	210	4.7	2.34	234
443+70.00	458+55.28	LT/RT		4.62	4.62	416	416	416	9.2	4.62	462
BRIDGE OMISSION											
460+10.28	477+00.00	LT/RT	2.37		2.37	213	213	213	4.7	2.37	237
460+10.28	477+00.00	LT/RT		2.86	2.86	257	257	257	5.7	2.86	286
OLYMPIAN DRIVE											
477+00.00	489+00.00	LT/RT		1.20	1.20	108	108	108	2.4	1.20	120
OLYMPIAN/LINCOLN INTERSECTION											
89+00.00	92+74.03 (OLY)	LT/RT		0.30	0.30	27	27	27	0.6	0.30	30
203+16.22	206+82.28 (LIN)	LT/RT									
LINCOLN AVE											
199+36.86	203+16.22	LT/RT		0.15	0.15	13	13	13	0.3	0.15	15
206+82.28	209+51.78	LT/RT		0.09	0.09	8	8	8	0.2	0.09	9
BEAVER LAKE DETENTION POND (GCPF)											
24+00.00	37+00.00	LT/RT		18.23	18.23	1640	1640	1640	36.5	18.23	1823
EAST BORROW (GCPF)											
103+75.00	112+60.00	LT/RT	0.65		0.65	59	59	59	1.3	0.65	65
103+85.00	112+70.00	LT/RT		0.62	0.62	56	56	56	1.2	0.62	62
TRIBUTARY TO SALINE CREEK DITCH											
42+00.00	49+00.00	LT/RT		0.53	0.53	48	48	48	1.1	0.53	53
		TOTAL	5.25	31.25	36.75	3299	3299	3299	73.3	36.75	3666

LAYOUT: B.B. 03/28/13	FILE NAME = C:\01-E.SC.dgn	USER NAME = johns02944	DESIGNED - M.H.	REVISED -	**STATE OF ILLINOIS**
DRAWN: B.B. 03/28/13			DRAWN - B.J.B.	REVISED -	**DEPARTMENT OF TRANSPORTATION**
REVISED: M.H. 03/28/13		PLOT SCALE = 2.0000 ' / in.	CHECKED - M.H.	REVISED -	
SCH Sheet 1		PLOT DATE = 01/21/2014	DATE - 1/21/14	REVISED -	

SCHEDULE OF QUANTITIES
PROPOSED OLYMPIAN DR. EAST

SCALE: NTS | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	12
	10L0007	**CONTRACT NO.** 91470		
	ILLINOIS FED. AID PROJECT			

PAVEMENT SCHEDULE

LOCATION			40800010	40603310	40603082	42000401	42300200	48101500	48203033	51100300	60604400	66101150
			BITUMINOUS MATERIALS (PRIME COAT)	HOT MIX ASPHALT SURFACE COURSE MIX "C", N50	HOT-MIX ASPHALT BINDER COURSE, IL-19.0 FG, N50	PORTLAND CEMENT CONCRETE PAVEMENT, 9" (JOINTED)	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	AGGREGATE SHOULDERS, TYPE B 6"	HOT MIX ASPHALT SHOULDERS 9"	SLOPE WALL 6 INCH	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	HOT-MIX ASPHALT SHOULDER CURB
			GALLON	TON	TON	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	FOOT	FOOT
BEGIN STATION	**END STATION**	**OFFSET**										
OLYMPIAN / APOLLO INTERSECTION												
431+57.40	435+00.00	SOUTH				175			92		94	
OLYMPIAN DRIVE												
435+00.00	443+70.00	LT				2337			1947			
OLYMPIAN DRIVE (GCPF)												
443+70.00	STRUCTURE	LT				3781			3517			
457+59.45	457+69.45	LT										10
457+70.50	457+83.75	LT										13
BRIDGE OMISSION												
STRUCTURE	477+00.00	LT				4251			4187			
460+98.85	461+12.10	LT										13
461+13.14	461+23.14	LT										10
OLYMPIAN DRIVE												
477+00.00	489+00.00	LT				3917			2666			
OLYMPIAN/LINCOLN INTERSECTION												
89+00.00	92+74.03 (OLY)	LT/RT				3394			796			
203+16.22	206+82.28 (LIN)	LT/RT										
LINCOLN AVE												
199+06.86	199+36.86	LT/RT	6	5								
199+36.74	203+16.22	LT/RT	577	81	242			305				
206+82.28	209+51.78	LT/RT	407	57	171			212				
209+51.78	209+81.78	LT/RT	6	5								
BEAVER LAKE ACCESS ROAD												
60+30.68	60+70.73	LT/RT					71					
60+70.73	61+67.63	LT/RT								546		
61+67.63	62+06.74	LT/RT					70					
78+31.40	79+04.24	LT/RT					129					
79+04.24	79+63.74	LT/RT								325		
79+63.74	80+34.21	LT/RT					125					
		TOTALS	997	148	414	17854	396	517	13205	871	94	46

GUARDRAIL SCHEDULE

LOCATION				63000001	63100085	63100167	78200410	78200520	78201000	
				STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL MARKERS, TYPE A	BARRIER WALL MARKERS, TYPE B	TERMINAL MARKER - DIRECT APPLIED	NOTE
				FOOT	EACH	EACH	EACH	EACH	EACH	
BEGIN STATION	**OFFSET**	**END STATION**	**OFFSET**							
OLYMPIAN DRIVE										
449+33.00	LT	449+83.00	LT			1			1	
449+33.00	LT	471+02.41	LT				8	1		Monodirectional Crytal
449+83.00	LT	457+58.00	LT	775.0						
455+42.70	LT	455+92.70	LT			1			1	
455+42.70	LT	470+12.08	LT				5	2		Monodirectional Crytal
455+92.70	LT	457+42.70	LT	150.0						
457+42.70	LT	457+86.45	LT		1					
457+58.00	LT	458+01.75	LT		1					
460+80.83	LT	461+24.58	LT		1					
460+96.16	LT	461+39.91	LT		1					
461+24.58	LT	469+62.08	LT	837.5						
461+39.91	LT	470+52.41	LT	912.5						
469+62.08	LT	470+12.08	LT			1			1	
470+52.41	LT	471+02.41	LT			1			1	
			TOTAL	2675.0	4	4	13	3	4	

HANSON

LAYOUT	B.JB	01/28/13
DRAWN	B.JB	01/28/13
REVIEWED	MH	01/28/13

FILE NAME = C-601-E_SC.dgn	USER NAME = johns00944	DESIGNED - M.H.	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN - B.J.B.	REVISED -	
SCH Sheet 2	PLOT SCALE = 2.0000 ' / in.	CHECKED - M.H.	REVISED -	
	PLOT DATE = 03\18\2014	DATE - 1/21/14	REVISED -	

SCHEDULE OF QUANTITIES
PROPOSED OLYMPIAN DR. EAST

SCALE: NTS | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	13
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

DRAINAGE STRUCTURE SCHEDULE

LOCATION									54213447	54213663	54213669	54213675	54213681	54214719	54213693	54215760	54216982	54248510	60218400	60236200	60240361	60900515	61000225	Z0018500
									END SECTIONS 12"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELLIPTICAL, EQUIVALENT ROUND-SIZE 24"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 48"	METAL END SECTIONS, EQUIVALENT ROUND-SIZE 15"	REINFORCED CONCRETE PIPE TEE, 48" PIPE WITH 18" RISER	CONCRETE COLLAR	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	INLETS, TYPE A, TYPE 8 GRATE	INLETS, TYPE B, WITH MEDIAN INLET	CONCRETE THRUST BLOCKS	TYPE F INLET BOX, STANDARD 610001	DRAINAGE STRUCTURES TO BE CLEANED
STR NO	STATION	OFFSET		RIM ELEV	N INVERT ELEV	S INVERT ELEV	E INVERT ELEV	W INVERT ELEV	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	CU YD	EACH	EACH	EACH	EACH	EACH	EACH
OLYMPIAN DRIVE																								
S50	432+45.89	70.62	LT					732.63		1														
S51	433+82.75	72.42	LT				733.29			1														
S1	444+66.00	0.00	RT	729.98		726.59															1			
S2	444+66.00	90.00	RT	N/A	725.85						1													
S3	449+95.00	121.00	LT	N/A	723.00										1									
S4	449+95.00	172.00	RT	N/A		719.00									1									
S5	450+05.00	121.00	LT	N/A	723.00										1									
S6	450+05.00	172.00	RT	N/A		719.00									1									
S7	450+25.00	119.00	RT	N/A			724.00			1														
S8	450+07.50	119.00	RT	N/A			722.00										1							
S19	457+64.50	12.00	LT	761.61		758.94																	1	
S19A	457+64.50	1.00	LT	N/A																		1		
S19B	457+64.50	2.70	RT	N/A		758.90			1															
S20	457+75.50	56.00	LT	761.70	759.03																		1	
S20A	457+75.50	91.00	LT	N/A																		1		
S20B	457+75.50	95.00	LT	N/A	743.92				1															
S21	461+07.00	12.00	LT	761.53		758.86																	1	
S21A	461+07.00	30.00	RT	N/A																		1		
S21B	461+07.00	33.50	RT	N/A		742.62			1															
S22	461+18.00	56.00	LT	761.41	758.74																		1	
S22A	461+18.00	96.00	LT	N/A																		1		
S22B	461+18.00	100.00	LT	N/A	741.00				1															
S9	461+46.00	156.00	LT	N/A	721.65										1									
S10	460+48.00	147.00	RT	N/A		721.40									1									
S11	461+54.00	153.00	LT	N/A	721.65										1									
S12	460+56.00	150.00	RT	N/A		721.40									1									
S15	487+97.00	76.50	LT	N/A	722.82									1										
S16	487+97.00	10.00	RT	N/A		722.40								1										
S17	488+03.00	76.50	LT	N/A	722.82									1										
S18	488+03.00	10.00	RT	N/A		722.40								1										
BEAVER LAKE REGIONAL DETENTION POND																								
S23	+/- 53+47	+/- 78	LT	+/- 723.82			+/- 715.1													1				
S24	+/- 53+47	+/- 74	RT	N/A			+/- 714.7				1													
S25	53+55.00	16.00	LT	N/A				723.70						1										
S26	53+55.00	34.00	RT	N/A			721.00							1										
S27	53+61.00	16.00	LT	N/A				723.70						1										
S28	53+61.00	34.00	RT	N/A			721.00							1										
S29	61+04.00	30.00	LT	N/A				717.00					1											
S30	61+04.00	30.00	RT	N/A			715.00						1											
S31	61+11.50	30.00	LT	N/A				717.00					1											
S32	61+11.50	30.00	RT	N/A			715.00						1											
S33	61+19.00	30.00	LT	N/A				717.00					1											
S34	61+19.00	30.00	RT	N/A			715.00						1											
S35	61+26.50	30.00	LT	N/A				717.00					1											
S36	61+26.50	30.00	RT	N/A			715.00						1											
S37	61+34.00	30.00	LT	N/A				717.00					1											
S38	61+34.00	30.00	RT	N/A			715.00						1											
S39	+/- 79+72	+/- 29	RT	N/A				+/- 714.80				1												
S40	+/- 79+57	+/- 47	LT	N/A			+/- 714.50												1					
S41	79+39.00	32.00	RT	N/A				714.00							1									
S42	79+39.00	32.00	LT	N/A			713.90								1									
S43	79+29.50	32.00	RT	N/A				714.00							1									
S44	79+29.50	32.00	LT	N/A			713.90								1									
NORTH LINCOLN AVENUE																								
S45	91+75.00	1178.00	LT	N/A		+/- 726.00										1								
S46	91+75.00	1217.00	LT	N/A	+/- 725.90											1								
S47	200+75.00	20.00	RT	+/- 722.00				+/- 720.80												1				
S48	200+75.00	20.00	LT	EXST STRUCTURE			+/- 720.50																	1
								TOTAL	4	3	1	2	10	8	12	2	1	1	1	1	1	4	4	1

LAYOUT	B.B.	01/28/13
DRAWN	B.B.	01/28/13
REVIEWED	M.H.	01/28/13

FILE NAME = c:\681-E.SC.dgn
DRAINAGE SCH 1

USER NAME = johnv30944
PLOT SCALE = 2.0000 ' / in.
PLOT DATE = 01/21/2014

DESIGNED - M.H.
DRAWN - B.J.B.
CHECKED - M.H.
DATE - 1/21/14

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCHEDULES
PROPOSED OLYMPIAN DR. EAST

SCALE: NTS | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	14
	10L0007	CONTRACT NO.	91470	
	ILLINOIS FED. AID PROJECT			

DRAINAGE PIPE SCHEDULE

LOCATION						20800150	542A0217	542A0223	542A0229	542A0235	542A0241	542A5479	542A0253	542A3403	542A4663	542D5470	60100945
PIPE	FROM STRUCTURE		TO STRUCTURE		PIPE	TRENCH BACKFILL	PIPE CULVERTS, CLASS A, TYPE 1 12"	PIPE CULVERTS, CLASS A, TYPE 1 18"	PIPE CULVERTS, CLASS A, TYPE 1 24"	PIPE CULVERTS, CLASS A, TYPE 1 30"	PIPE CULVERTS, CLASS A, TYPE 1 36"	PIPE CULVERTS, CLASS A, TYPE 1 EQ. ROUND-SIZE 24"	PIPE CULVERTS, CLASS A, TYPE 1 48"	PIPE CULVERTS, CLASS A, TYPE 5 48"	PIPE CULVERTS, CLASS A, TYPE 7 48"	PIPE CULVERTS, CLASS D, TYPE 1 EQ. ROUND-SIZE 15"	PIPE DRAINS 12"
NUMBER	NUMBER	INV ELEV	NUMBER	INV ELEV	SLOPE %	CU YD	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT
OLYMPIAN DRIVE																	
P25	S51	733.29	S50	732.63	0.53%	10.5		125.0									
P1	S1	726.59	S2	725.85	0.82%	0.0			90.0								
P2	S3	723.00	S4	719.00	1.44%	55.1								277.0			
P3	S5	723.00	S6	719.00	1.44%	55.1								277.0			
P4	S7	724.00	S8	722.00	16.67%	0.0		12.0									
P25	S19	758.94	S19B	758.90	0.33%	0.8											13.0
P26	S20	759.03	S20B	743.92	37.78%	0.8											40.0
P27	S21	758.86	S21B	742.62	36.92%	0.9											44.0
P28	S22	758.74	S22B	741.00	41.26%	0.8											43.0
P5	S9	721.65	S10	721.40	0.08%	0.0									303.0		
P6	S11	721.65	S12	721.40	0.08%	0.0									303.0		
P8	S15	722.82	S16	722.40	0.57%	0.0						74.0					
P9	S17	722.82	S18	722.40	0.57%	0.0						74.0					
BEAVER LAKE REGIONAL DETENTION POND																	
P12	S23	+/- 715.1	S24	+/- 714.7	Min. 0.3%	0.0				143.0							
P13	S25	723.70	S26	721.00	7.11%	0.0						38.0					
P14	S27	723.70	S28	721.00	7.11%	0.0						38.0					
P15	S29	717.00	S30	715.00	4.55%	0.0					44.0						
P16	S31	717.00	S32	715.00	4.55%	0.0					44.0						
P17	S33	717.00	S34	715.00	4.55%	0.0					44.0						
P18	S35	717.00	S36	715.00	4.55%	0.0					44.0						
P19	S37	717.00	S38	715.00	4.55%	0.0					44.0						
P20	S39	+/- 714.80	S40	+/- 714.50	+/- 0.5%	0.0				71.0							
P21	S41	714.00	S42	713.90	0.21%	0.0							48.0				
P22	S43	714.00	S44	713.90	0.21%	0.0							48.0				
NORTH LINCOLN AVENUE																	
P23	S45	+/- 726.00	S46	+/- 725.90	0.21%	0.0										35.0	
P24	S47	+/- 720.80	S48	+/- 720.50	0.81%	0.0	37.0										
					TOTAL	124.0	37.0	137.0	90.0	214.0	220.0	224.0	96.0	554.0	606.0	35.0	140.0

DRAINAGE REMOVAL SCHEDULE

								X0324079	X6015000	
								EXISTING FIELD TILE REMOVAL	REMOVE CONCRETE HEADWALLS FOR PIPE DRAINS	NOTES
STATION	OFFSET		TO STATION	OFFSET				FOOT	EACH	
BEAVER LAKE REGIONAL DETENTION POND										
27+50.00	278.00'	LT	27+65.00	305.00	RT			591		30" Running E-W (Estimated)
28+17.00	207.00'	RT	UNKNOWN					800	1	10" Running N-S (Estimated)
32+04.00	115.00	LT	UNKNOWN					400	1	10" Running N-S (Estimated)
35+00.00	278.00'	LT	35+57.00	287.00	LT			58	1	8" Running N-S (Estimated)
35+00.00	277.00'	LT	35+57.00	285.00	LT			58	1	6" Running N-S (Estimated)
						TOTAL		1907	4	

PIPE UNDERDRAIN SCHEDULE

LOCATION			60107600	60108100	60100060	X0326911	
			PIPE UNDERDRAINS 4"	PIPE UNDERDRAINS 4" (SPECIAL)	CONCRETE HEADWALLS FOR PIPE DRAINS	TRANSVERSE DRAINS COMPLETE	CONNECTION NOTES
BEGIN STATION	END STATION	OFFSET	FOOT	FOOT	EACH	EACH	
435+00.00	440+00.00	LT	500				
435+00.00	440+00.00	LT	500				
440+00.00		LT		23	1		
440+00.00		LT		23	1		
440+00.00	443+70.00	LT	370				
440+00.00	443+70.00	LT	370				
443+70.00	444+65.00	LT	95				
443+70.00	444+65.00	LT	95				
444+65.00		LT				1	CONNECT TO UNDERDRAIN OUTLET
444+65.00		LT		36	2		
444+65.00		LT		43			CONNECT TO S1
444+65.00	450+00.00	LT	535				
444+65.00	450+00.00	LT	535				
450+00.00		LT				1	CONNECT TO UNDERDRAIN OUTLET
450+00.00		LT		19	1		
450+00.00		LT		20	1		
450+00.00	455+00.00	LT	500				
450+00.00	455+00.00	LT	500				
455+00.00		LT				1	CONNECT TO UNDERDRAIN OUTLET
455+00.00		LT		18	1		
455+00.00		LT		21	1		
455+00.00	457+80.00	LT	280				
455+00.00	457+72.00	LT	272				
461+11.00	465+00.00	LT	389				
461+03.00	465+00.00	LT	397				
465+00.00		LT				1	CONNECT TO UNDERDRAIN OUTLET
465+00.00		LT		21	1		
465+00.00		LT		21	1		
465+00.00	470+00.00	LT	500				
465+00.00	470+00.00	LT	500				
470+00.00		LT				1	CONNECT TO UNDERDRAIN OUTLET
470+00.00		LT		20	1		
470+00.00		LT		20	1		
470+00.00	474+72.00	LT	472				
470+00.00	474+72.00	LT	472				
474+75.00		LT				1	CONNECT TO UNDERDRAIN OUTLET
474+72.00		LT		16	1		
474+72.00		LT		16	1		
474+72.00	477+00.00	LT	228				
474+72.00	477+00.00	LT	228				
477+00.00	479+50.00	LT	250				
477+00.00	479+50.00	LT	250				
479+50.00	484+00.00	LT	450				
479+50.00	484+00.00	LT	450				
484+00.00		LT		16	1		
484+00.00		LT		17	1		
484+00.00	487+96.00	LT	396				CONNECT TO P8
484+00.00	487+96.00	LT	396				CONNECT TO P8
488+04.00	491+85.00	LT	361				CONNECT TO P9
488+04.00	491+38.00	LT	334				CONNECT TO P9
		TOTALS	10625	350	16	6	

LAYOUT	E.G.	01/29/15		
DRAWN	E.G.	01/29/15		
REVISED	M.H.	01/29/15		

FILE NAME = C:\GIS\E.G\Dgn\ DRAINAGE SCH 2	USER NAME = johns@8944	DESIGNED - M.H.	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN - B.J.B.	REVISED -	
	PLOT SCALE = 2.0000 ' / in.	CHECKED - M.H.	REVISED -	
	PLOT DATE = 01\21\2014	DATE - 1/21/14	REVISED -	

DRAINAGE SCHEDULES
PROPOSED OLYMPIAN DR. EAST

SCALE: NTS | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	15
	10L0007	**CONTRACT NO.** 91470		
	ILLINOIS FED. AID PROJECT			

PROPOSED CURVE OD200

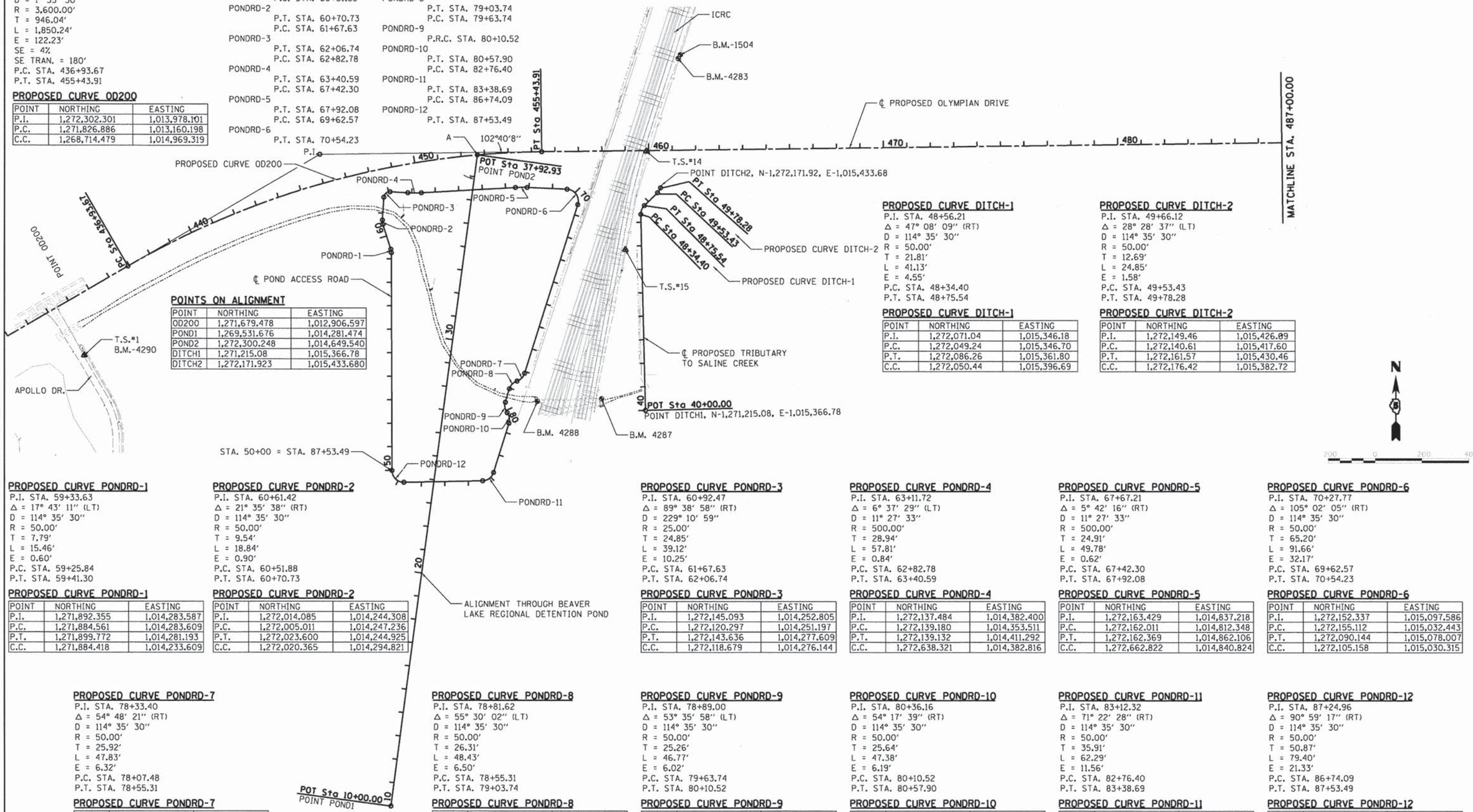
P.I. STA. 446+39.70
Δ = 29° 26′ 51″ (RT)
D = 1° 35′ 30″
R = 3,600.00′
T = 946.04′
L = 1,850.24′
E = 122.23′
SE = 4%
SE TRAN. = 180′
P.C. STA. 436+93.67
P.T. STA. 455+43.91

PROPOSED CURVE OD200

POINT	NORTHING	EASTING
P.I.	1,272,302.301	1,013,978.101
P.C.	1,271,826.886	1,013,160.198
C.C.	1,268,714.479	1,014,969.319

PONDRD-1 P.C. STA. 59+25.84
P.T. STA. 59+41.30
PONDRD-2 P.C. STA. 60+51.88
P.T. STA. 60+70.73
PONDRD-3 P.C. STA. 61+67.63
P.T. STA. 62+06.74
PONDRD-4 P.C. STA. 62+82.78
P.T. STA. 63+40.59
PONDRD-5 P.C. STA. 67+42.30
P.T. STA. 67+92.08
PONDRD-6 P.C. STA. 69+62.57
P.T. STA. 70+54.23
PONDRD-7 P.C. STA. 78+07.48
P.R.C STA. 78+55.31
PONDRD-8 P.T. STA. 79+03.74
P.C. STA. 79+63.74
PONDRD-9 P.R.C. STA. 80+10.52
PONDRD-10 P.T. STA. 80+57.90
P.C. STA. 82+76.40
PONDRD-11 P.T. STA. 83+38.69
P.C. STA. 86+74.09
PONDRD-12 P.T. STA. 87+53.49

A
STA. 452+68.96 OLY. DR. =
STA. 37+92.93 POND



POINTS ON ALIGNMENT

POINT	NORTHING	EASTING
OD200	1,271,679.478	1,012,906.597
POND1	1,269,531.676	1,014,281.474
POND2	1,272,300.248	1,014,649.540
DITCH1	1,271,215.08	1,015,366.78
DITCH2	1,272,171.923	1,015,433.680

PROPOSED CURVE DITCH-1

P.I. STA. 48+56.21
Δ = 47° 08′ 09″ (RT)
D = 114° 35′ 30″
R = 50.00′
T = 21.81′
L = 41.13′
E = 4.55′
P.C. STA. 48+34.40
P.T. STA. 48+75.54

PROPOSED CURVE DITCH-1

POINT	NORTHING	EASTING
P.I.	1,272,071.04	1,015,346.18
P.C.	1,272,049.24	1,015,346.70
P.T.	1,272,086.26	1,015,361.80
C.C.	1,272,050.44	1,015,396.69

PROPOSED CURVE DITCH-2

P.I. STA. 49+66.12
Δ = 28° 28′ 37″ (LT)
D = 114° 35′ 30″
R = 50.00′
T = 12.69′
L = 24.85′
E = 1.58′
P.C. STA. 49+53.43
P.T. STA. 49+78.28

PROPOSED CURVE DITCH-2

POINT	NORTHING	EASTING
P.I.	1,272,149.46	1,015,426.89
P.C.	1,272,140.61	1,015,417.60
P.T.	1,272,161.57	1,015,430.46
C.C.	1,272,176.42	1,015,382.72

PROPOSED CURVE PONDRD-1

P.I. STA. 59+33.63
Δ = 17° 43′ 11″ (LT)
D = 114° 35′ 30″
R = 50.00′
T = 7.79′
L = 15.46′
E = 0.60′
P.C. STA. 59+25.84
P.T. STA. 59+41.30

PROPOSED CURVE PONDRD-1

POINT	NORTHING	EASTING
P.I.	1,271,892.355	1,014,283.587
P.C.	1,271,884.561	1,014,283.609
P.T.	1,271,899.772	1,014,281.193
C.C.	1,271,884.418	1,014,233.609

PROPOSED CURVE PONDRD-2

P.I. STA. 60+61.42
Δ = 21° 35′ 38″ (RT)
D = 114° 35′ 30″
R = 50.00′
T = 9.54′
L = 18.84′
E = 0.90′
P.C. STA. 60+51.88
P.T. STA. 60+70.73

PROPOSED CURVE PONDRD-2

POINT	NORTHING	EASTING
P.I.	1,272,014.085	1,014,244.308
P.C.	1,272,005.011	1,014,247.236
P.T.	1,272,023.600	1,014,244.925
C.C.	1,272,020.365	1,014,294.821

PROPOSED CURVE PONDRD-3

P.I. STA. 60+92.47
Δ = 89° 38′ 58″ (RT)
D = 229° 10′ 59″
R = 25.00′
T = 24.85′
L = 39.12′
E = 10.25′
P.C. STA. 61+67.63
P.T. STA. 62+06.74

PROPOSED CURVE PONDRD-3

POINT	NORTHING	EASTING
P.I.	1,272,145.093	1,014,252.805
P.C.	1,272,120.297	1,014,251.197
P.T.	1,272,143.636	1,014,277.609
C.C.	1,272,118.679	1,014,276.144

PROPOSED CURVE PONDRD-4

P.I. STA. 63+11.72
Δ = 6° 37′ 29″ (LT)
D = 11° 27′ 33″
R = 500.00′
T = 28.94′
L = 57.81′
E = 0.84′
P.C. STA. 62+82.78
P.T. STA. 63+40.59

PROPOSED CURVE PONDRD-4

POINT	NORTHING	EASTING
P.I.	1,272,137.484	1,014,382.400
P.C.	1,272,139.180	1,014,353.511
P.T.	1,272,139.132	1,014,411.292
C.C.	1,272,638.321	1,014,382.816

PROPOSED CURVE PONDRD-5

P.I. STA. 67+67.21
Δ = 5° 42′ 16″ (RT)
D = 11° 27′ 33″
R = 500.00′
T = 24.91′
L = 49.78′
E = 0.62′
P.C. STA. 67+42.30
P.T. STA. 67+92.08

PROPOSED CURVE PONDRD-5

POINT	NORTHING	EASTING
P.I.	1,272,163.429	1,014,837.218
P.C.	1,272,162.011	1,014,812.348
P.T.	1,272,162.369	1,014,862.106
C.C.	1,272,662.822	1,014,840.824

PROPOSED CURVE PONDRD-6

P.I. STA. 70+27.77
Δ = 105° 02′ 05″ (RT)
D = 114° 35′ 30″
R = 50.00′
T = 65.20′
L = 91.66′
E = 32.17′
P.C. STA. 69+62.57
P.T. STA. 70+54.23

PROPOSED CURVE PONDRD-6

POINT	NORTHING	EASTING
P.I.	1,272,152.337	1,015,097.586
P.C.	1,272,155.112	1,015,032.443
P.T.	1,272,090.144	1,015,078.007
C.C.	1,272,105.158	1,015,030.315

PROPOSED CURVE PONDRD-7

P.I. STA. 78+33.40
Δ = 54° 48′ 21″ (RT)
D = 114° 35′ 30″
R = 50.00′
T = 25.92′
L = 47.83′
E = 6.32′
P.C. STA. 78+07.48
P.T. STA. 78+55.31

PROPOSED CURVE PONDRD-7

POINT	NORTHING	EASTING
P.I.	1,271,346.926	1,014,844.042
P.C.	1,271,371.651	1,014,851.825
P.T.	1,271,339.036	1,014,819.351
C.C.	1,271,386.664	1,014,804.132

PROPOSED CURVE PONDRD-8

P.I. STA. 78+81.62
Δ = 55° 30′ 02″ (LT)
D = 114° 35′ 30″
R = 50.00′
T = 26.31′
L = 48.43′
E = 6.50′
P.C. STA. 78+55.31
P.T. STA. 79+03.74

PROPOSED CURVE PONDRD-8

POINT	NORTHING	EASTING
P.I.	1,271,331.030	1,014,794.292
P.C.	1,271,339.036	1,014,819.351
P.T.	1,271,305.843	1,014,786.698
C.C.	1,271,291.409	1,014,834.569

PROPOSED CURVE PONDRD-9

P.I. STA. 78+89.00
Δ = 53° 35′ 58″ (LT)
D = 114° 35′ 30″
R = 50.00′
T = 25.26′
L = 46.77′
E = 6.02′
P.C. STA. 79+63.74
P.T. STA. 80+10.52

PROPOSED CURVE PONDRD-9

POINT	NORTHING	EASTING
P.I.	1,271,224.216	1,014,762.086
P.C.	1,271,248.398	1,014,769.377
P.T.	1,271,203.998	1,014,777.222
C.C.	1,271,233.963	1,014,817.248

PROPOSED CURVE PONDRD-10

P.I. STA. 80+36.16
Δ = 54° 17′ 39″ (RT)
D = 114° 35′ 30″
R = 50.00′
T = 25.64′
L = 47.38′
E = 6.19′
P.C. STA. 80+10.52
P.T. STA. 80+57.90

PROPOSED CURVE PONDRD-10

POINT	NORTHING	EASTING
P.I.	1,271,183.474	1,014,792.587
P.C.	1,271,203.998	1,014,777.222
P.T.	1,271,159.019	1,014,784.889
C.C.	1,271,174.033	1,014,737.196

PROPOSED CURVE PONDRD-11

P.I. STA. 83+12.32
Δ = 71° 22′ 28″ (RT)
D = 114° 35′ 30″
R = 50.00′
T = 35.91′
L = 62.29′
E = 11.56′
P.C. STA. 82+76.40
P.T. STA. 83+38.69

PROPOSED CURVE PONDRD-11

POINT	NORTHING	EASTING
P.I.	1,270,916.341	1,014,708.493
P.C.	1,270,950.596	1,014,719.277
P.T.	1,270,915.620	1,014,672.589
C.C.	1,270,965.609	1,014,671.584

PROPOSED CURVE PONDRD-12

P.I. STA. 87+24.96
Δ = 90° 59′ 17″ (RT)
D = 114° 35′ 30″
R = 50.00′
T = 50.87′
L = 79.40′
E = 21.33′
P.C. STA. 86+74.09
P.T. STA. 87+53.49

PROPOSED CURVE PONDRD-12

POINT	NORTHING	EASTING
P.I.	1,270,907.856	1,014,286.397
P.C.	1,270,908.879	1,014,337.257
P.T.	1,270,958.726	1,014,286.252
C.C.	1,270,958.869	1,014,336.252

LAYOUT	RSJ	02/15/11	
DRAW	RSJ	02/22/11	
REVIEWED	MH	02/28/11	

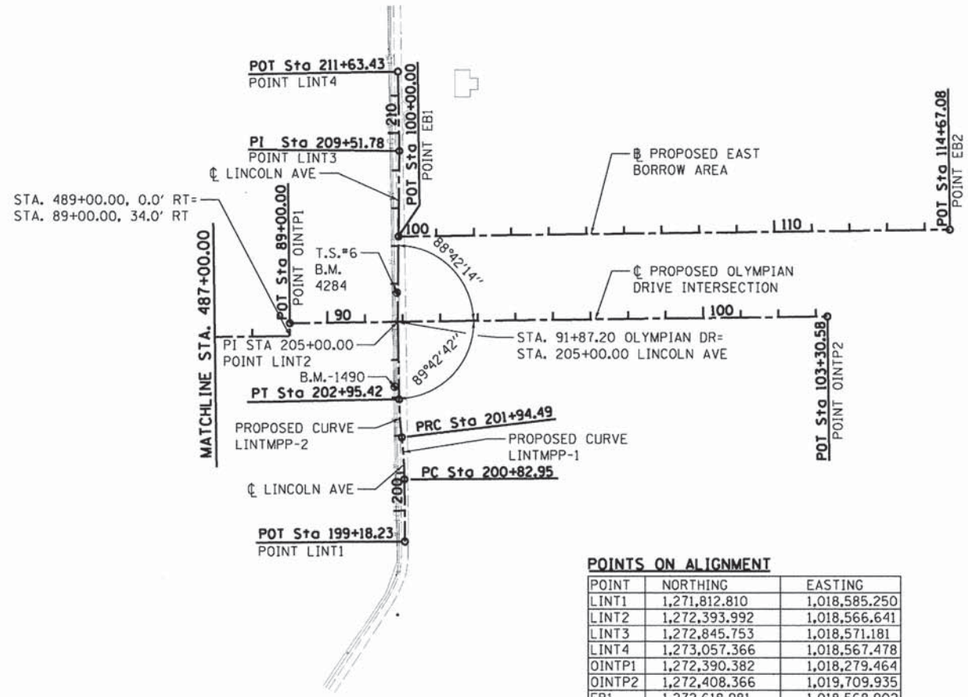
FILE NAME = C:\01-E.GM.dgn	USER NAME = johns80944	DESIGNED - M.H.	REVISED -
		DRAWN - R.S.J.	REVISED -
	PLOT SCALE = 400.0000 ' / in.	CHECKED - M.H.	REVISED -
Geometrics	PLOT DATE = 01/21/2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GEOMETRIC AND SURVEY CONTROL
PROPOSED OLYMPIAN DR. EAST

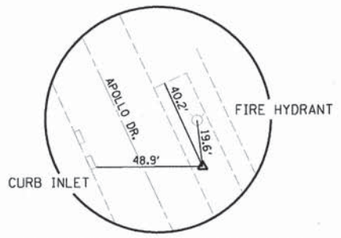
SCALE: NTS | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	16
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

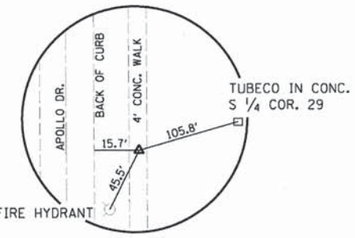


POINTS ON ALIGNMENT

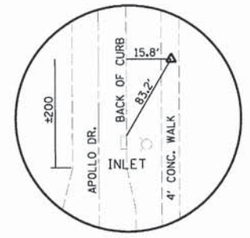
POINT	NORTHING	EASTING
LINT1	1,271,812.810	1,018,585.250
LINT2	1,272,393.992	1,018,566.641
LINT3	1,272,845.753	1,018,571.181
LINT4	1,273,057.366	1,018,567.478
OINTP1	1,272,390.382	1,018,279.464
OINTP2	1,272,408.366	1,019,709.935
EB1	1,272,618.981	1,018,568.902
EB2	1,272,637.424	1,020,035.862



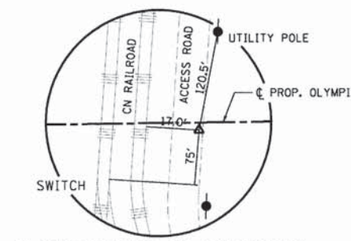
N-1,271,447.3000, E-1,012,974.1700
269'S, 16.9'E FROM APOLLO/OLY INT,
CONTROL POINT TS=1
BRASS TABLET IN CONCRETE



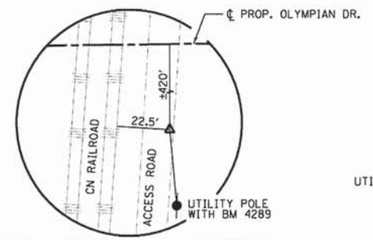
N-1,270,853.9600, E-1,013,140.5020
890'S, 30'E FROM APOLLO/OLY. INT,
CONTROL POINT TS=11
CHISELED "X" ON SIDEWALK



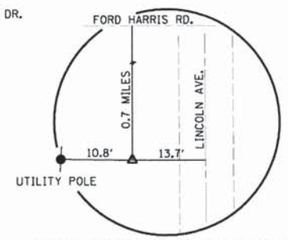
N-1,270,591.7600, E-1,013,141.5590
±1152'S, 29.9'E FROM APOLLO/OLY. INT,
CONTROL POINT TS=12
CHISELED "X" ON SIDEWALK



N-1,272,317.2040, E-1,015,370.5240
STA. 459+90.37, 2.60' RT
CONTROL POINT TS=14
TUBECO W/ CAP "ILS 2006 2207"



N-1,271,898.6450, E-1,015,280.8190
STA. 458+95.41, 420.00' RT
CONTROL POINT TS=15
TUBECO W/ CAP "ILS 2006 2207"



N-1,272,470.9330, E-1,018,564.2760
STA. 91+85.80, 76.96' RT
CONTROL POINT TS=6
TUBECO W/ CAP IN CONCRETE

PROPOSED CURVE LINTMPP-1
P.I. STA. 201+38.78
Δ = 6° 23' 27" (LT)
D = 5° 43' 46"
R = 1,000.00'
T = 55.83'
L = 111.54'
E = 1.56'
SE = N/A
P.C. STA. 200+82.95
P.T. STA. 201+94.49

PROPOSED CURVE LINTMPP-1

POINT	NORTHING	EASTING
P.I.	1,272,033.353	1,018,583.707
P.C.	1,271,977.526	1,018,584.097
P.T.	1,272,088.790	1,018,577.104
C.C.	1,272,970.526	1,017,584.122

PROPOSED CURVE LINTMPP-2
P.I. STA. 202+45.00
Δ = 5° 46' 59" (LT)
D = 5° 43' 49"
R = 999.90'
T = 50.51'
L = 100.93
E = 1.28'
SE = N/A
P.C. STA. 201+94.49
P.T. STA. 202+95.42

PROPOSED CURVE LINTMPP-2

POINT	NORTHING	EASTING
P.I.	1,272,138.942	1,018,571.131
P.C.	1,272,088.790	1,018,577.104
P.T.	1,272,189.441	1,018,570.242
C.C.	1,272,207.042	1,019,569.985

B.M. 4290 - BRASS TABLET IN CONCRETE STAMPED
"CITY OF CHAMPAIGN HORZ. & VERT. CONTROL MONUMENT NO. 125"
NORTHING 1,271,447.3000 EASTING 1,012,974.1700 ELEV. 734.41
STATION 434+00.34, 234.69' RT

B.M. 4288 - CHISELED SQUARE SET ON TOP S.W. CORNER OF NORTH WINGWALL OF NORTH MOST CULVERT UNDER C.N.R.R.
NORTHING 1,271,252.8110 EASTING 1,014,906.1330 ELEV. 726.20
STATION 454+99.57, 1060.88' RT

B.M. 4287 - CHISELED SQUARE SET ON TOP N.E. CORNER OF EAST CONC. HEAD WALL OF NORTH MOST CULVERT UNDER C.N.R.R.
NORTHING 1,271,263.3300 EASTING 1,015,179.8440 ELEV. 720.82
STATION 457+86.46, 1054.00' RT

B.M. 4289 - MAG NAIL IN WEST FACE OF UTILITY POLE, SOUTH MOST POLE ON EAST SIDE OF C.N.R.R. TRACKS
NORTHING 1,271,809.8200 EASTING 1,015,266.5330 ELEV. 732.05
STATION 458+80.01, 508.64' RT

B.M. 4283 - TUBECO IN CONCRETE
NORTHING 1,272,712.3800 EASTING 1,015,505.9300 ELEV. 731.53
STATION 461+30.73, 390.84' LT

B.M. 1504 - R.R. SPIKE IN WEST FACE OF UTILITY POLE, 33' EAST OF THE EAST MOST C.N.R.R. TRACK
NORTHING 1,272,728.2860 EASTING 1,015,514.9450 ELEV. 731.98
STATION 461+39.95, 406.63' LT

B.M. 4286 - CHISELED SQUARE SET ON TOP CENTER OF CONC. HEADWALL OF TWO 24" CULVERTS
NORTHING 1,270,967.3100 EASTING 1,016,462.0900 ELEV. 721.82
STATION 470+64.88, 1366.11' RT

B.M. 4284 - TUBECO IN CONCRETE
NORTHING 1,272,471.0400 EASTING 1,018,564.2300 ELEV. 725.13
STATION 91+85.78, 77.02' LT

B.M. 1490 - R.R. SPIKE IN EAST FACE OF UTILITY POLE
NORTHING 1,272,222.9810 EASTING 1,018,558.1190 ELEV. 724.40
STATION 203+29.17, 11.53' LT

LAYOUT	RSJ	02/15/11
DRAWN	RSJ	02/22/11
REVISED	RM	3/29/13

FILE NAME = C-401 E.BM.dgn	USER NAME = johnsd0944	DESIGNED - M.H.	REVISED -
		DRAWN - R.S.J.	REVISED -
	PLOT SCALE = 400.0000 ' / in.	CHECKED - M.H.	REVISED -
Tile	PLOT DATE = 01/21/2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GEOMETRIC AND SURVEY CONTROL
PROPOSED OLYMPIAN DR. EAST

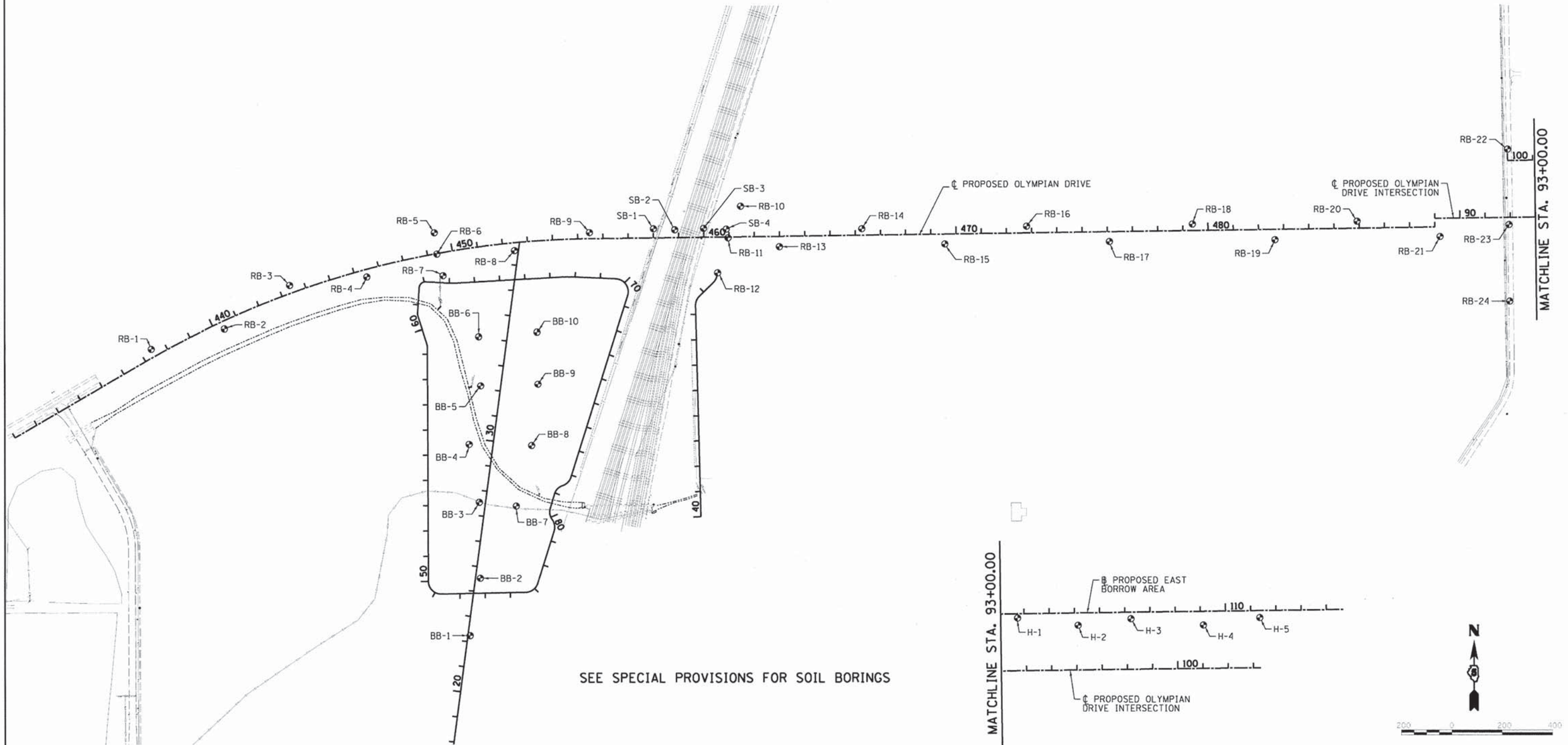
SCALE: NTS | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	17
	10L0007	**CONTRACT NO.** 91470		
	ILLINOIS FED. AID PROJECT			

HANSON

LEGEND

- SOIL BORING LOCATION
- RB-* ROADWAY BORING NUMBER
- BB-* DETENTION POND BORING NUMBER
- SB-* STRUCTURE BORING NUMBER



SEE SPECIAL PROVISIONS FOR SOIL BORINGS

LAYOUT	E.G.	01/30/13			
DRAWN	E.G.	01/30/13			
REVIEWED	M.H.	01/30/13			

FILE NAME = C:\101 E.BR.dgn	USER NAME = johns@2944	DESIGNED - M.H.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOCATIONS PROPOSED OLYMPIAN DR. EAST
		DRAWN - B.J.B.	REVISED -		
	PLOT SCALE = 402.200 ' / in.	CHECKED - M.H.	REVISED -		SCALE: 1" = 200' SHEET NO. OF SHEETS STA. TO STA.
Borings	PLOT DATE = 01\21\2014	DATE - 1/21/14	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	18
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

SEE APOLLO DR. INTERSECTION PAVEMENT ELEVATION DETAIL FOR LAYOUT

STA. 431+57.40 BEGIN IMPROVEMENTS

REMOVE TEMP. CONC. BARRIER, 2 @ 10'

RELOCATE REAL ESTATE SIGN (BY OTHERS)

242 TON AGGREGATE SURFACE COURSE, TYPE B

150 SQ YD PAVED SHOULDER REMOVAL

MATCH EXIST. PAVEMENT

EXISTING R.O.W.

PROPOSED 9" HMA SHOULDERS

LIMITS OF CONSTRUCTION

440+96.96
108.33' LT

PROPOSED R.O.W.

HEADWALL FOR PIPE UNDERDRAIN (TYP.)
SEE PIPE UNDERDRAIN SCHEDULE

PROPOSED P.C.C. PAVEMENT 9" (JOINTED)

TRANSVERSE DRAINS (TYP.)
SEE UNDERDRAIN SCHEDULE

P.I. Sta. 436+93.67

S50

S51

S1

S2

P1

P25

435+00

440+00

445+00

EXISTING OLYMPIAN DR.

FUTURE CONSTRUCTION

PROPOSED PCC PAVEMENT, 9"

℄ PROPOSED OLYMPIAN DR.

LIMITS OF CONSTRUCTION

83 SQ YD PAVEMENT REMOVAL

64 FOOT CURB REMOVAL

EXISTING TRANSFER CHANNEL

PROPOSED LANDSCAPING SEE LANDSCAPING DETAIL SHEETS

EXISTING R.O.W.

EXISTING R.O.W.

MATCHLINE STA. 446+50.00

APOLLO DR.

15'

12'

B.M.-4290

CITY OF CHAMPAIGN

N

50 0 50 100

ex = 4.35'
K = 166
760.00' V.C.

+70.00 EL. 733.49

TIE INTO EXISTING OLYMPIAN DR PCL

736.96

435+00.00
734.60

SP. DT. LT.

-0.06%

0.30%

VPI STA. 438+00.00
ELEVATION 736.78

-0.58%

438+75.00
735.72

+00.00 EL. 736.84

+00.00 EL. 736.21

ex = -0.13'
K = 385
200.00' V.C.

EXISTING PROFILE GRADE ALONG CENTERLINE

PROPOSED PROFILE GRADE ALONG INSIDE E.O.P.

MEDIAN DITCH SEE CROSS SECTIONS

-1.59%

SP. DT. LT.

446+00.34
724.16

434+00	435+00	436+00	437+00	438+00	439+00	440+00	441+00	442+00	443+00	444+00	445+00	446+00
734.29	734.23 736.96	736.34 736.93	737.22 736.90	737.73 736.87	738.26 736.84	738.36 736.78	738.85 736.65	738.87 736.46	738.86 736.21	738.43 735.92	737.97 735.63	737.15 735.34	736.33 735.05	735.13 734.76	733.93 734.48	732.76 734.19	731.58 733.90	730.68 733.61	729.80 733.35	729.69 733.22	729.60 733.25	728.65 733.43	727.71 733.76	727.48 734.24

PLAN — SURVEYED — PLOTTED — ALIGNMENT CHECKED — RT. OF WAY CHECKED — CADD FILE NAME — NOTE BOOK — NO. — BY — DATE

PROFILE — SURVEYED — PLOTTED — GRADES CHECKED — BAL. NOTED — STRUCTURE NOTATIONS CHKD — NOTE BOOK — NO. — BY — DATE

LAYOUT	RSJ	02/15/11
DRAWN	RSJ	02/22/11
REVIEWED	MH	01/28/13

HANSON

FILE NAME = c-101-E_PP.dgn	USER NAME = johns00944	DESIGNED - M.H.	REVISED -
MODEL NAME= Sheet 1		DRAWN - R.S.J.	REVISED -
	PLOT SCALE = 100.000 ' / in.	CHECKED - M.H.	REVISED -
	PLOT DATE = 03\12\2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
PROPOSED OLYMPIAN DR. EAST

SCALE: 1" = 50' | SHEET NO. 1 OF 5 SHEETS | STA. 435+00.00 TO STA. 447+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	19
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

HEADWALL FOR PIPE UNDERDRAIN (TYP.)
SEE PIPE UNDERDRAIN SCHEDULE

451+00.01
152.00' LT

PROPOSED R.O.W.

LIMITS OF CONSTRUCTION 455+40.01
160.00' LT

458+52.00
164.00' LT

PROPOSED STRUCTURE

459+34.22
162.97' LT

MAINLINE CNRR

460+56.27
144.46' LT

460+25.93
144.84' LT

ACCESS ROAD

SQUIRE FARMS

460+64.82
170.19' LT

PROPOSED R.O.W.

EXISTING R.O.W.

447+00.00
125.00' LT

EXISTING R.O.W.

PROPOSED P.C.C. PAVEMENT
9" (JOINTED)

TRANSVERSE EXPANSION JOINT
SEE NOTE A

TRANSVERSE DRAINS (TYP.)
SEE UNDERDRAIN SCHEDULE

459+08.63
85.95' LT

460+06.05
84.73' LT

PERM. EASEMENT

EXISTING R.O.W.

STA. 459+42.00
SKEW = 18° LT

PROPOSED 9" HMA SHOULDERS

SETTLEMENT PLATFORMS

MATCHLINE STA. 446+50.00

250+00

455+00

MATCHLINE STA. 462+50.00

460+00

SETTLEMENT PLATFORMS

℄ PROPOSED OLYMPIAN DR.

FUTURE CONSTRUCTION

STEEL PLATE BEAM GUARDRAIL (SEE SCHEDULES)

STA. 457+50.00, PERMANENT SURVEY MARKER

BENCH DITCH (TYP)

BENCH DRAIN (TYP)

SETTLEMENT PLATFORM

FUTURE STRUCTURE

PERM. EASEMENT

NOTE B

459+70.99
112.03' RT

458+47.59
97.70' RT

459+41.83
98.88' RT

459+37.62
111.61' RT

459+51.61
170.34' RT

457+43.11
163.52' RT

458+25.34
164.55' RT

EXISTING R.O.W.

POND ACCESS ROAD

SEE BEAVER LAKE REGIONAL DETENTION POND PLAN & PROFILE

MAINLINE I.C.

ACCESS ROAD

PROPOSED R.O.W.

SQUIRE FARMS

SEE TRANSFER CHANNEL STRUCTURE DETAIL

NOTE A:
SEE STANDARD 420001 DETAILS OF THE TRANSVERSE EXPANSION JOINT. THIS ITEM SHALL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE COST OF PCC PAVEMENT.

NOTE B:
AERIAL ELECTRIC LINE TO BE RELOCATED BY OTHERS.

CITY OF CHAMPAIGN

ex = 4.35'
K = 166
760.00' V.C.

PROPOSED PROFILE GRADE ALONG INSIDE E.O.P.

+30.00 EL. 746.50

+4.00%

MEDIAN DITCH
SEE CROSS SECTIONS

457+90.00
745.00

458+00.00
744.00

452+50.00
738.50

452+50.00
737.50

1.20%

1.18%

BENCH DT. RT

BENCH DT. LT

VPI STA. 459+30.00
ELEVATION 778.50

23' MIN. CL.

461+00.00
742.62

461+20.00
741.30

-1.00%

TOP OF RAIL & PGL
1 = 735.22
2 = 733.26
3 = 732.75
4 = 732.36
5 = 733.36

ex = -16.00'
K = 200
1,600.00' V.C.

460+98.00
723.20

460+50.00
721.4

458+15.34
727.00

458+15.34
726.00

EXISTING PROFILE GRADE ALONG CENTERLINE

-0.58%

+4.00%

VPI STA. 447+50.00
ELEVATION 731.30

VPI STA. 447+50.00
ELEVATION 731.30

-0.29%

449+77.75
726.23

450+25.00
724.00

450+00.00
723.00

SP. DT. RT.

SP. DT. LT.

0.38%

0.37%

461+50.00

727.48	726.96	726.94	726.92	726.69	726.47	726.31	726.16	726.54	726.92	727.32	727.72	727.49	727.27	726.89	726.52	727.05	727.58	728.29	728.59	728.36	728.13	728.06	727.99	728.92	732.78	732.35	727.38	725.93	725.43	725.73
734.24	734.87	735.65	736.58	737.66	738.89	740.28	741.81	743.49	745.33	747.29	749.18	750.94	752.58	754.09	755.48	756.74	757.88	758.89	759.78	760.54	761.18	761.69	762.08	762.34	762.48	762.49	762.38	762.14	761.78	761.29

447+00 448+00 449+00 450+00 451+00 452+00 453+00 454+00 455+00 456+00 457+00 458+00 459+00 460+00 461+00

FILE NAME = u:182\E_PP.dgn	USER NAME = johnsd29944	DESIGNED - M.H.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE PROPOSED OLYMPIAN DR. EAST
MODEL NAME = sheet 2	PLOT SCALE = 100.000 ' / in.	DRAWN - R.S.J.	REVISED -		SCALE: 1" = 50' SHEET NO. 2 OF 5 SHEETS STA. 447+50.00 TO STA. 462+50.00
	PLOT DATE = 01\21\2014	CHECKED - M.H.	REVISED -		
		DATE - 1/21/14	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	20
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

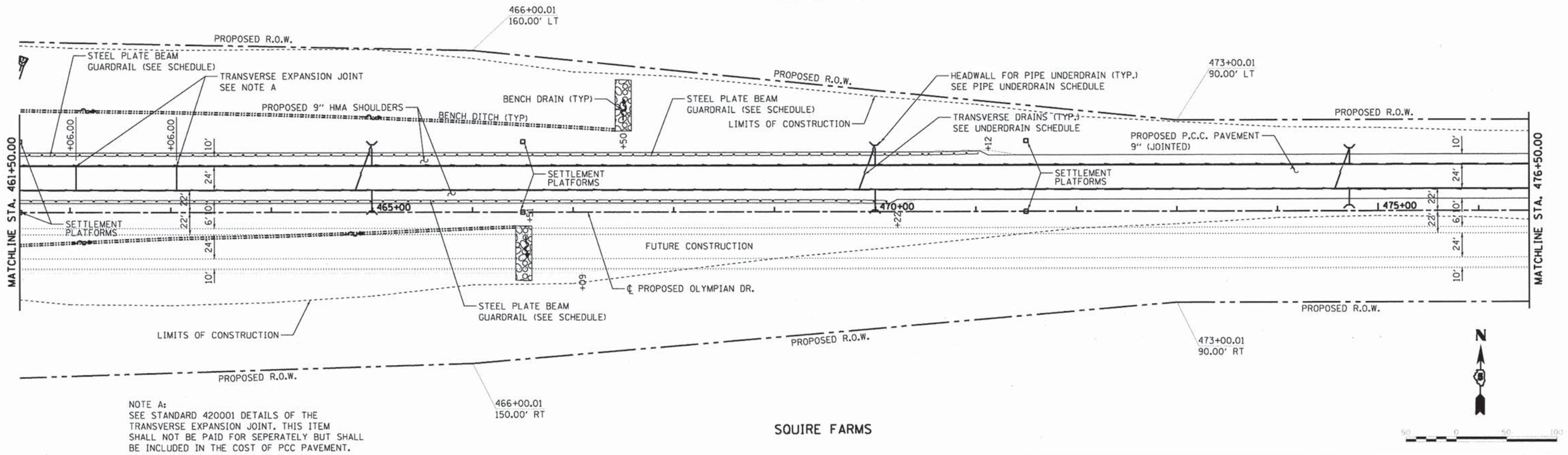
LAYOUT: RSJ 02/15/11
DRAWN: RSJ 02/20/11
REVIEWED: MH 01/28/13

PLAN SURVEYED ... DRAWN ... CHECKED ... QUANTITIES ... CHECKED ... SUBMITTED ... STRUCTURE DETAILS ... CHECKED ... DESIGNED ... CHECKED ... SUBMITTED ... NOTE BOOK ... CADD FILE NAME ... NO. ... DATE ... BY

PROFILE SURVEYED ... DRAWN ... CHECKED ... SUBMITTED ... NOTE BOOK ... CADD FILE NAME ... NO. ... DATE ... BY

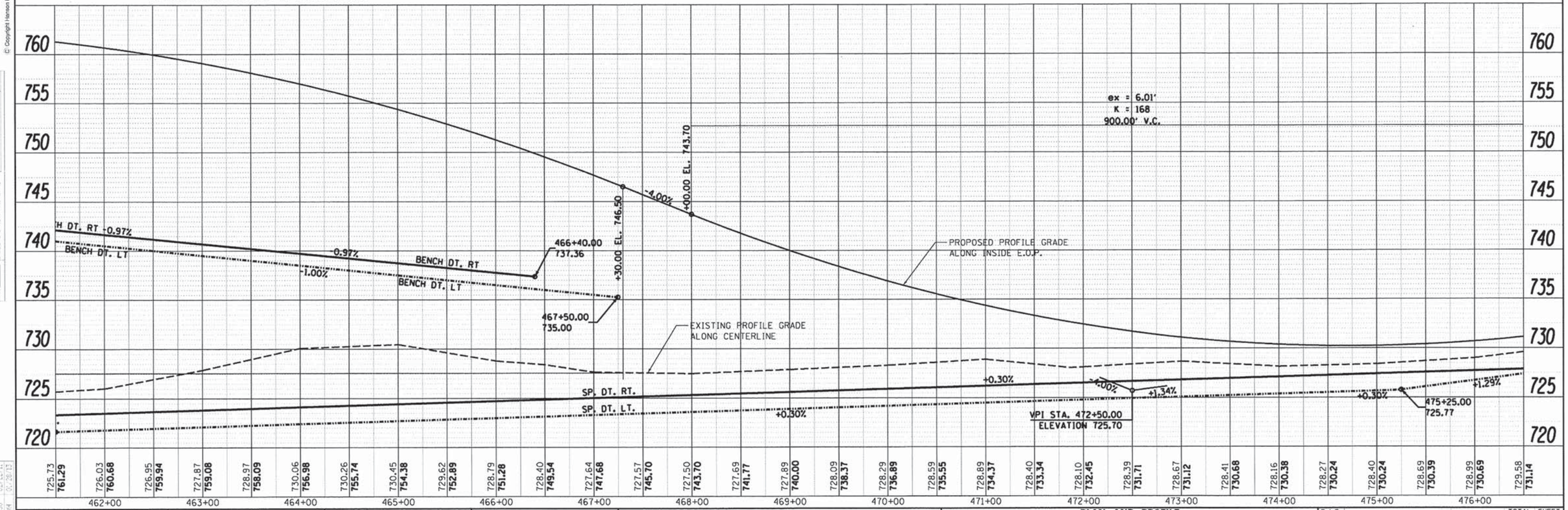
HANSON

SOUIRE FARMS



NOTE A:
SEE STANDARD 420001 DETAILS OF THE TRANSVERSE EXPANSION JOINT. THIS ITEM SHALL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE COST OF PCC PAVEMENT.

SOUIRE FARMS



FILE NAME = c:\03 E_PP.dgn	USER NAME = johnn08944	DESIGNED - M.H.	REVISED -
MODEL NAME = Sheet 3	PLOT SCALE = 100.000 ' / in.	DRAWN - R.S.J.	REVISED -
	PLOT DATE = 01/21/2014	CHECKED - M.H.	REVISED -
		DATE - 1/21/14	REVISED -

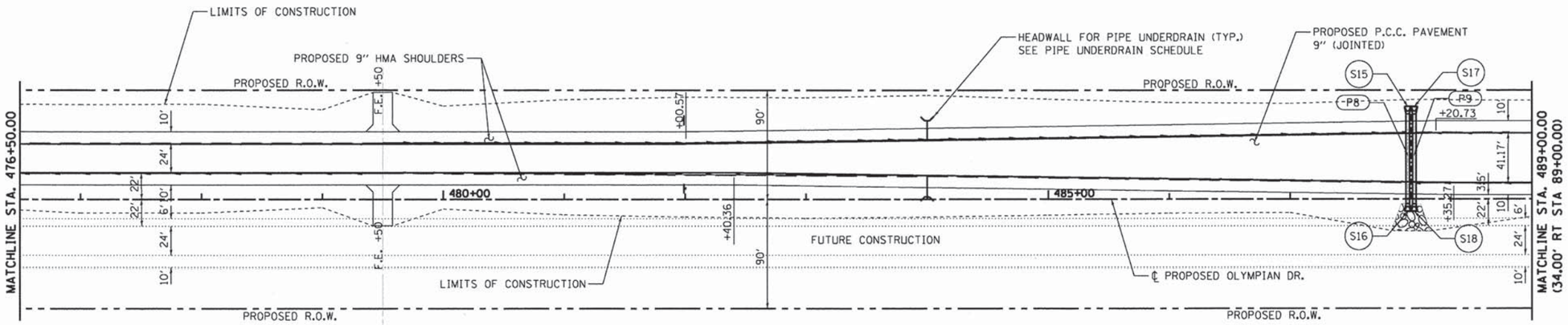
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

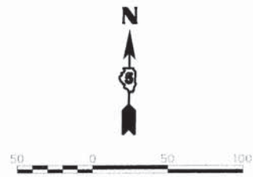
PLAN AND PROFILE
PROPOSED OLYMPIAN DR. EAST

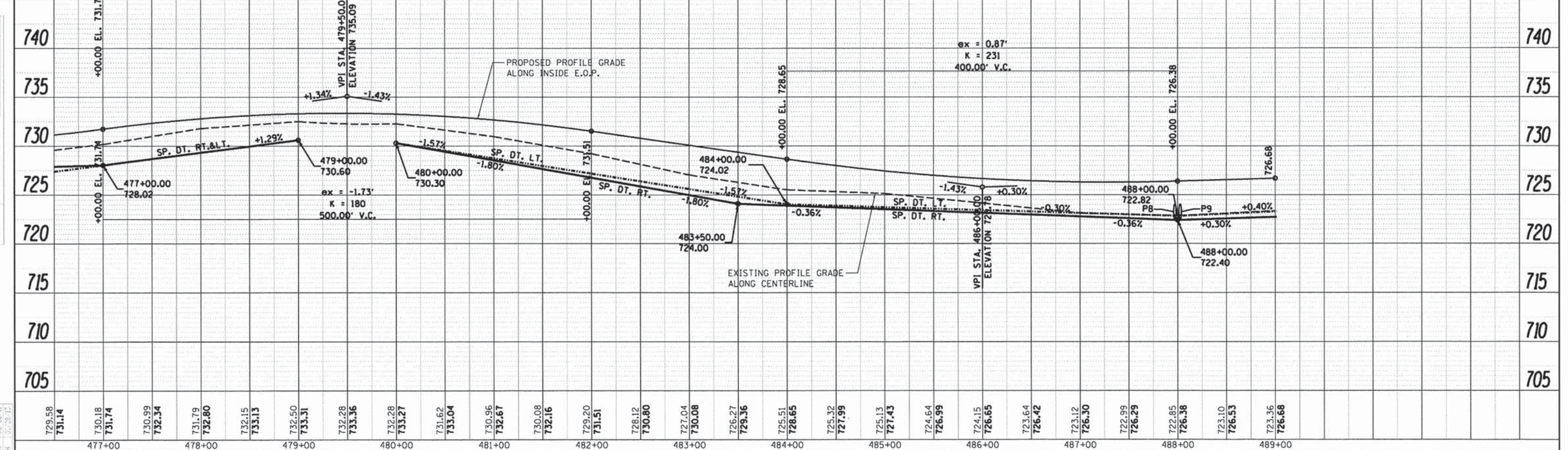
SCALE: 1" = 50' | SHEET NO. 3 OF 5 SHEETS | STA. 462+50.00 TO STA. 447+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CchampaIGN	131	21
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

HANSON







SQUIRE FARMS

SQUIRE FARMS

LAYOUT	RSJ	02/15/11	
DRAWN	RSJ	02/22/11	
REVIEWED	MH	02/28/13	

FILE NAME = c-104 E_PP.dgn
MODEL NAME= Sheet 4
USER NAME = johns00944
PLOT SCALE = 100.000 '/ in.
PLOT DATE = 01\21\2014

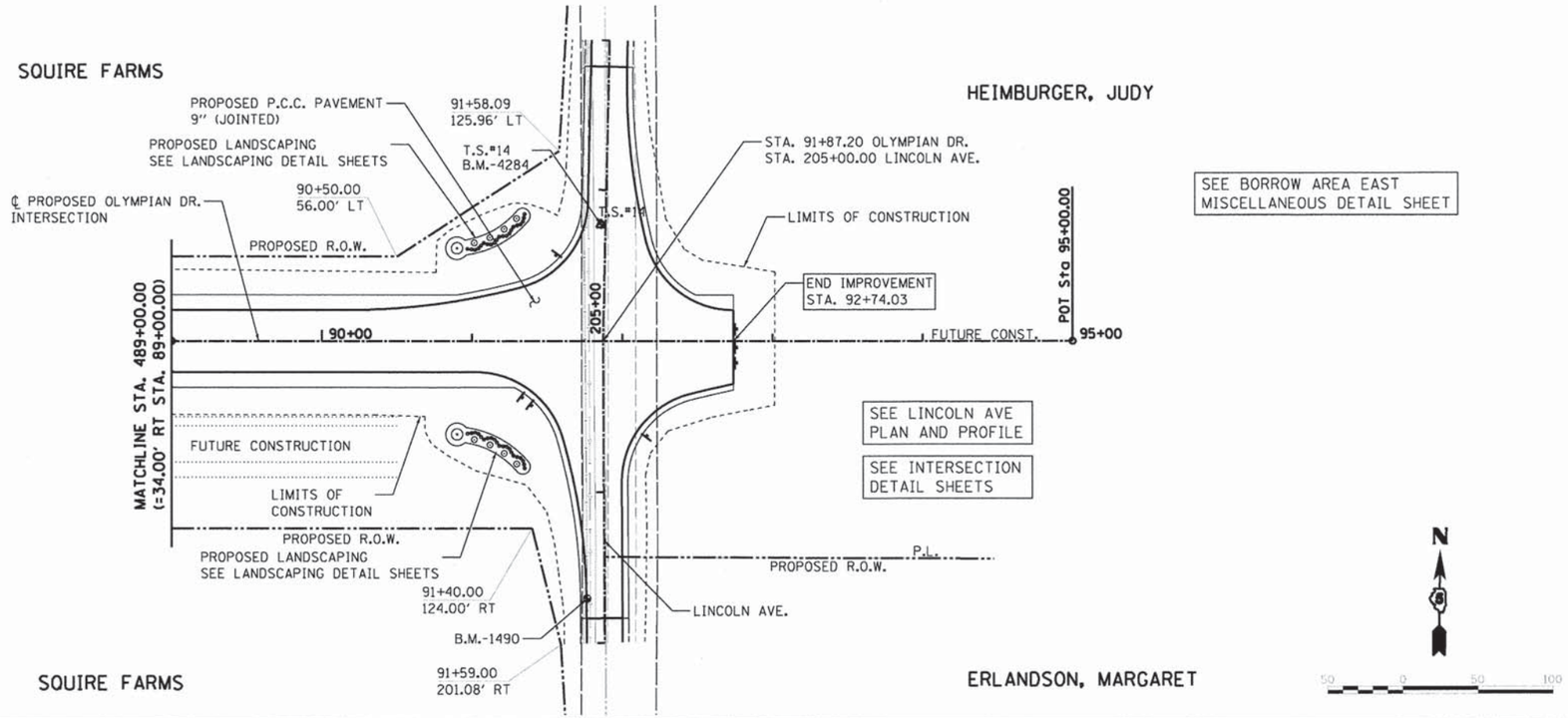
DESIGNED - M.H.	REVISED -		
DRAWN - R.S.J.	REVISED -		
CHECKED - M.H.	REVISED -		
DATE - 1/21/14	REVISED -		

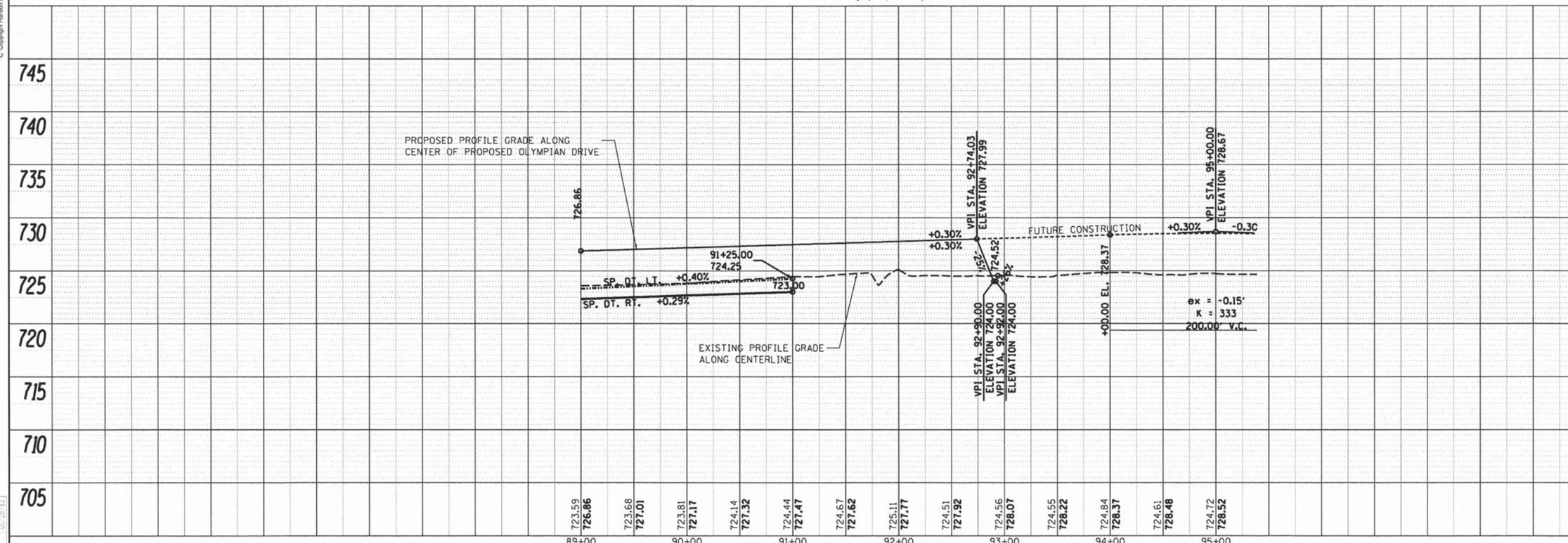
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
PROPOSED OLYMPIAN DR. EAST

SCALE: 1" = 50' | SHEET NO. 4 OF 5 SHEETS | STA. 477+50.00 TO STA. 489+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	22
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			





FILE NAME = c:\105-E_PP.dgn	USER NAME = johnu00944	DESIGNED - M.H.	REVISED -
MODEL NAME = Sheet 5	PLOT SCALE = 100.000 ' / in.	DRAWN - R.S.J.	REVISED -
	PLOT DATE = 01\21\2014	CHECKED - M.H.	REVISED -
		DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
PROPOSED OLYMPIAN DR. EAST

SCALE: 1" = 50' | SHEET NO. 5 OF 5 SHEETS | STA. 89+00.00 | TO STA. 95+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	23
	10L0007	CONTRACT NO.	91470	
	ILLINOIS FED. AID PROJECT			

SQUIRE FARMS

SQUIRE FARMS

PROPOSED R.O.W.

FUTURE CONSTRUCTION

℄ PROPOSED OLYMPIAN DR.

STA. 91+87.20 OLYMPIAN DR.
STA. 205+00.00 LINCOLN AVE.

POWER POLE TO BE RELOCATED BY OTHERS

T.S.#14
B.M.-4284

PROPOSED P.C.C. PAVEMENT, 9"

665 SQ YD
PAVEMENT REMOVAL

30' TAPER

91+72.81
415.14' RT

S48

PROPOSED R.O.W.

BM-1490

200+00

205+00

4' AGG. SHOULDER

91+88.58
349.99 ' LT

PROPOSED H.M.A. PAVEMENT, 6"

720 SQ YD
PAVEMENT REMOVAL

EXISTING R.O.W.

30' TAPER

210+00

12:12

+06.74

BEGIN IMPROVEMENTS +36.74

P24

S47

PROPOSED H.M.A. PAVEMENT, 6"

+60.00

+16.22

EXISTING R.O.W.

4' AGG. SHOULDERS

4' H.M.A. SHOULDER

P.I.

PROPOSED R.O.W.

+00.00

+82.28

℄ LINCOLN AVENUE

SEE INTERSECTION DETAIL SHEETS

SEE BORROW AREA EAST PLAN AND PROFILE SHEET

209+11.58
24.06' RT

209+11.77
32.04' RT

+81.78

+51.78

END IMPROVEMENTS

P.I.

PROPOSED R.O.W.

P.E. +68

EXISTING R.O.W.

JARRELL, WESLEY M.

ERLANDSON, MARGARET

HEIMBURGER, JUDY

PAVEMENT REMOVAL

50 0 50 100

N

S45 S46 P23

30'

EXISTING R.O.W.

1197' TO INTERSECTION ℄

EXISTING NORTH LINCOLN AVENUE

FIELD ENTRANCE
NORTH OF INTERSECTION

PROPOSED PROFILE GRADE ALONG CENTERLINE

EXISTING PROFILE GRADE ALONG CENTERLINE

ex = 0.65'
K = 121
250.00' V.C.

ex = 0.58'
K = 194
300.00' V.C.

+27.00 EL. 723.51

+77.00 EL. 724.52

+50.00 EL. 727.23

+50.00 EL. 728.05

724.08

STA. 199+36.74

199+36.74 722.23

200+75.00 722.00

200+75.00 721.00

VPI STA. 201+50.00
ELEVATION 722.72

LEFT DITCH PROFILE

RIGHT DITCH PROFILE

204+00.00 723.00

204+00.00 722.50

204+50.00 723.40

VPI STA. 204+75.00
ELEVATION 727.36

VPI STA. 205+00.00
ELEVATION 727.73

VPI STA. 205+25.00
ELEVATION 727.36

205+50.00 724.25

VPI STA. 207+00.00
ELEVATION 726.48

STA. 209+51.78

729.15

209+5
727.7C

-0.16 %

-0.89 %

-0.63%

+1.44%

0.23 %

0.46 %

1.80 %

+1.50%

-1.50%

0.50%

+1.04%

0.84 %
SP. DT. RT.&LT.

0.44%

723.96 724.00
723.61 723.68
723.34 723.39
723.26 723.27
723.16 723.36
722.98 723.66
722.82 724.16
722.84 724.85
723.04 725.57
723.46 726.28
723.87 727.00
724.32 727.73
724.80 727.23
725.45 727.05
725.97 726.99
726.51 727.06
727.04 727.26
727.56 727.59
727.97 728.05
728.50 728.57
729.10 729.09
729.55

745 740 735 730 725 720 715 710 705

200+00 201+00 202+00 203+00 204+00 205+00 206+00 207+00 208+00 209+00 210+00

HANSON

FILE NAME = C:101-L_PP.dgn	USER NAME = johnn08944	DESIGNED - M.H.	REVISED -
MODEL NAME = Sheet 1	PLOT SCALE = 100.000 ' / in.	DRAWN - R.S.J.	REVISED -
	PLOT DATE = 01/21/2014	CHECKED - M.H.	REVISED -
		DATE - 1/21/14	REVISED -

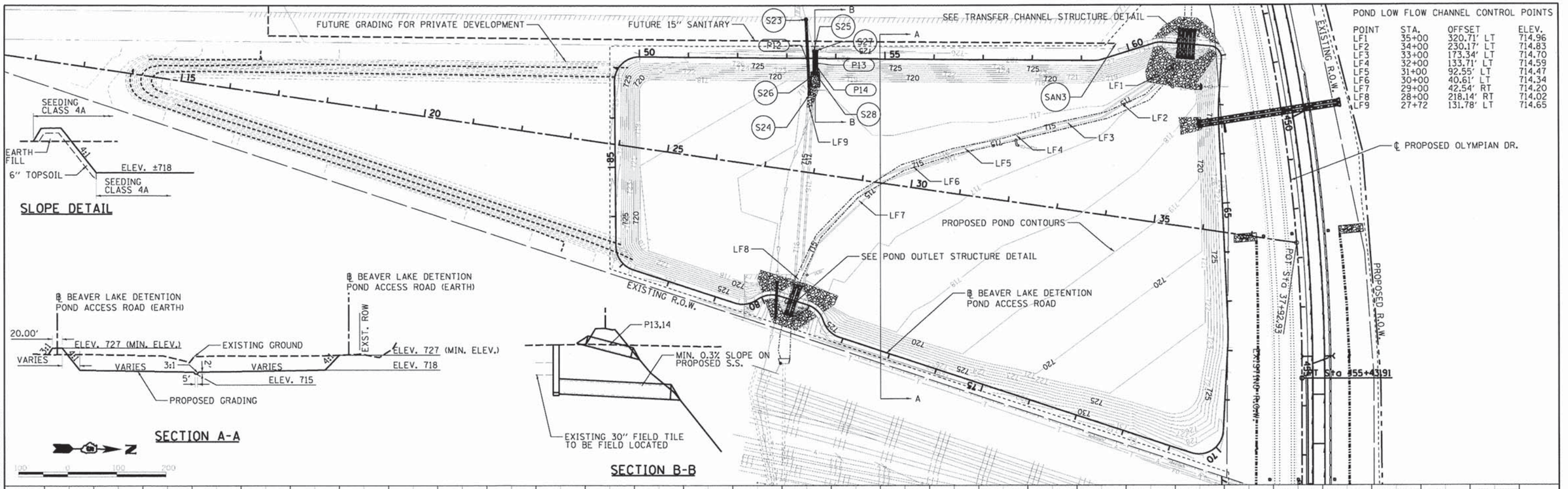
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
PROPOSED LINCOLN AVENUE

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. 199+00.00 TO STA. 210+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	24
	10L0007	CONTRACT NO.	91470	
	ILLINOIS FED. AID PROJECT			

LAYOUT	RSJ	02/15/11
DRAWN	RSJ	02/22/12
REVIEWED	MH	01/28/13



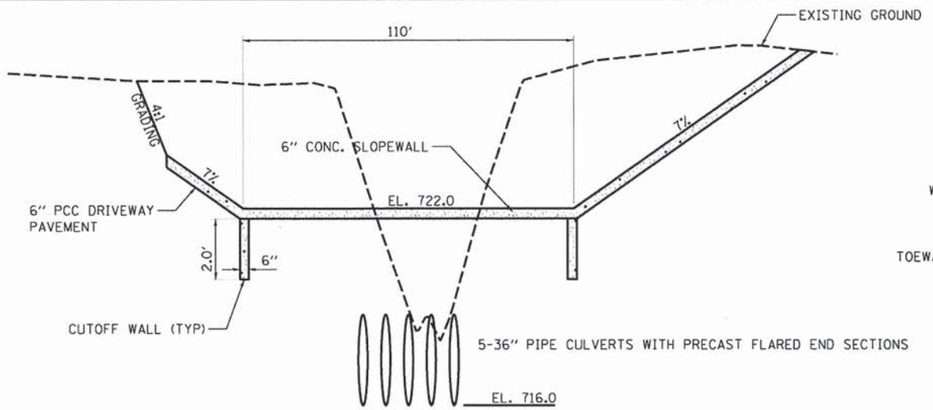
FILE NAME = c:\07-E_PP.dgn	USER NAME = johnn00944	DESIGNED - M.H.	REVISED -
MODEL NAME = Sheet 7	PLOT SCALE = 200.000 ' / in.	DRAWN - R.S.J.	REVISED -
	PLOT DATE = 01/21/2014	CHECKED - M.H.	REVISED -
		DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
BEAVER LAKE REGIONAL DETENTION POND
PROPOSED OLYMPIAN DR. EAST

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. 50+00.00 TO STA. 83+00.00

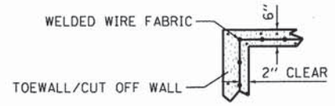
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	25
	10L0007	CONTRACT NO.	91470	
	ILLINOIS FED. AID PROJECT			



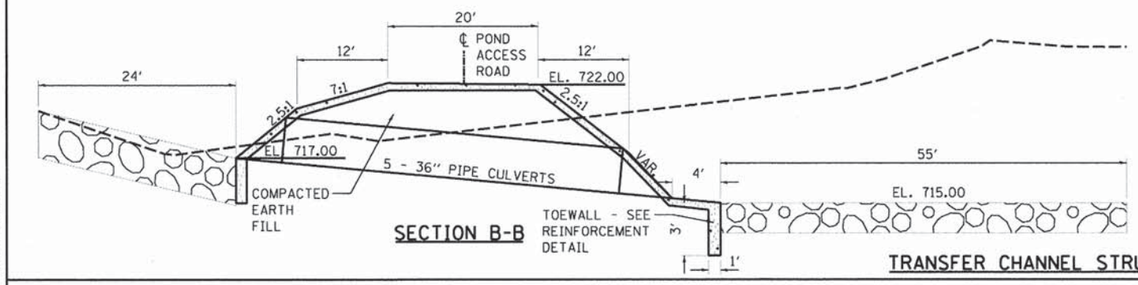
SECTION A-A

LAYOUT OF THE SLOPE PROTECTION SYSTEM MAY BE VARIED TO SUIT GROUND CONDITIONS IN THE FIELD AS DIRECTED BY THE ENGINEER.

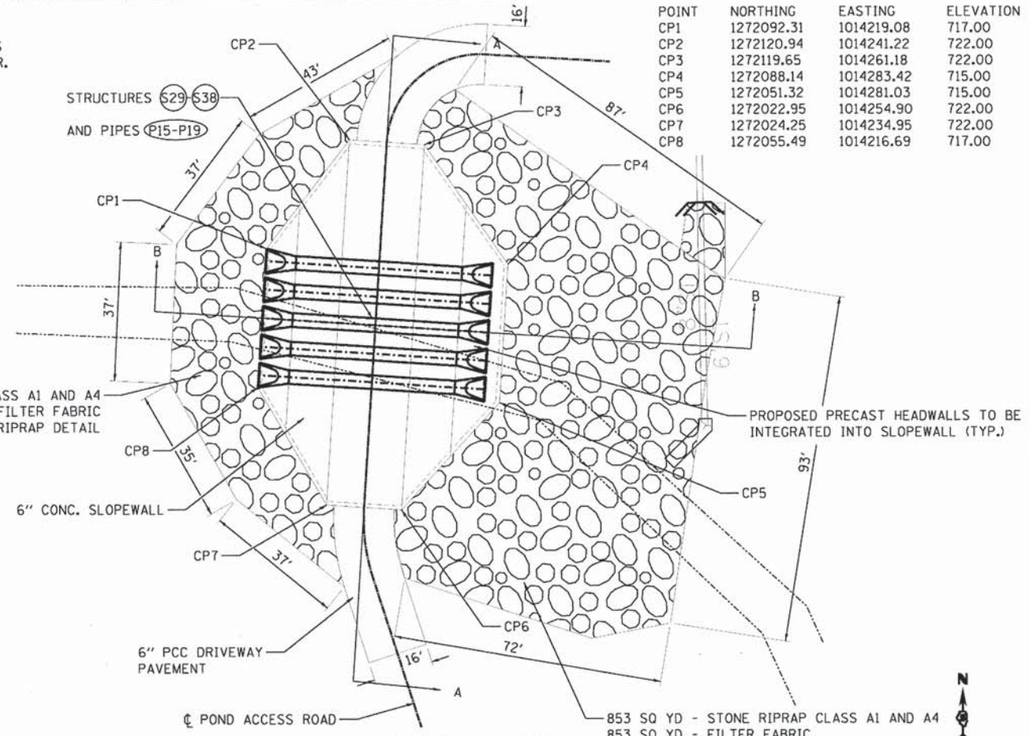
SLOPE WALL SHALL BE REINFORCED WITH WELDED WIRE FABRIC, 6 IN. X 6 IN. - W4.0 X W4.0, WEIGHING 58 LBS PER 100 SQ. FT.



REINFORCEMENT DETAIL

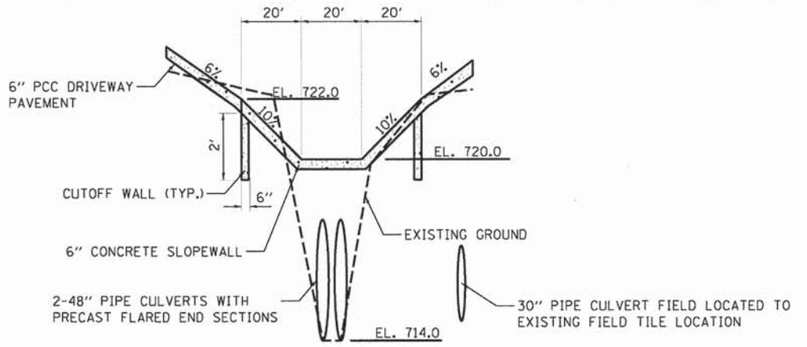


SECTION B-B



POINT	NORTHING	EASTING	ELEVATION
CP1	1272092.31	1014219.08	717.00
CP2	1272120.94	1014241.22	722.00
CP3	1272119.65	1014261.18	722.00
CP4	1272088.14	1014283.42	715.00
CP5	1272051.32	1014281.03	715.00
CP6	1272022.95	1014254.90	722.00
CP7	1272024.25	1014234.95	722.00
CP8	1272055.49	1014216.69	717.00

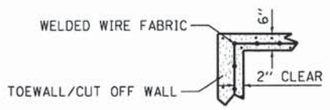
TRANSFER CHANNEL STRUCTURE DETAIL



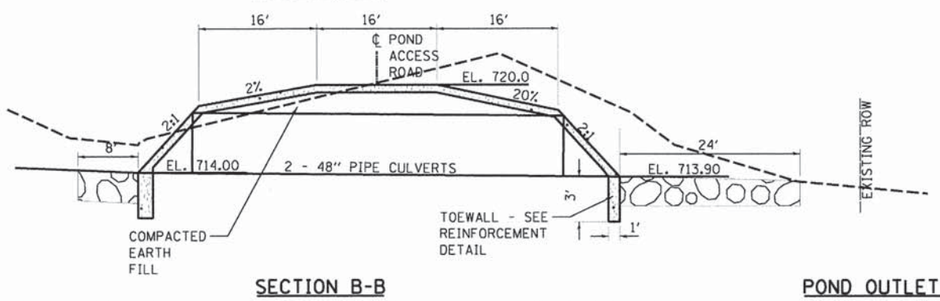
SECTION A-A

LAYOUT OF THE SLOPE PROTECTION SYSTEM MAY BE VARIED TO SUIT GROUND CONDITIONS IN THE FIELD AS DIRECTED BY THE ENGINEER.

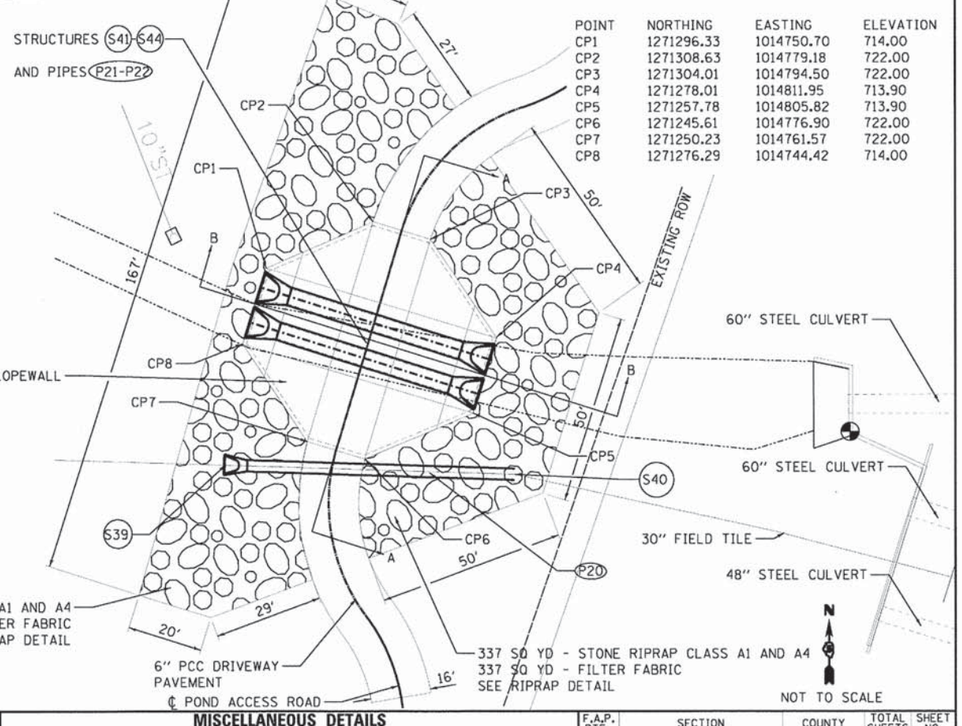
SLOPE WALL SHALL BE REINFORCED WITH WELDED WIRE FABRIC, 6 IN. X 6 IN. - W4.0 X W4.0, WEIGHING 58 LBS PER 100 SQ. FT.



REINFORCEMENT DETAIL



SECTION B-B



POINT	NORTHING	EASTING	ELEVATION
CP1	1271296.33	1014750.70	714.00
CP2	1271308.63	1014779.18	722.00
CP3	1271304.01	1014794.50	722.00
CP4	1271278.01	1014811.95	713.90
CP5	1271257.78	1014805.82	713.90
CP6	1271245.61	1014776.90	722.00
CP7	1271250.23	1014761.57	722.00
CP8	1271276.29	1014744.42	714.00

POND OUTLET STRUCTURE DETAIL

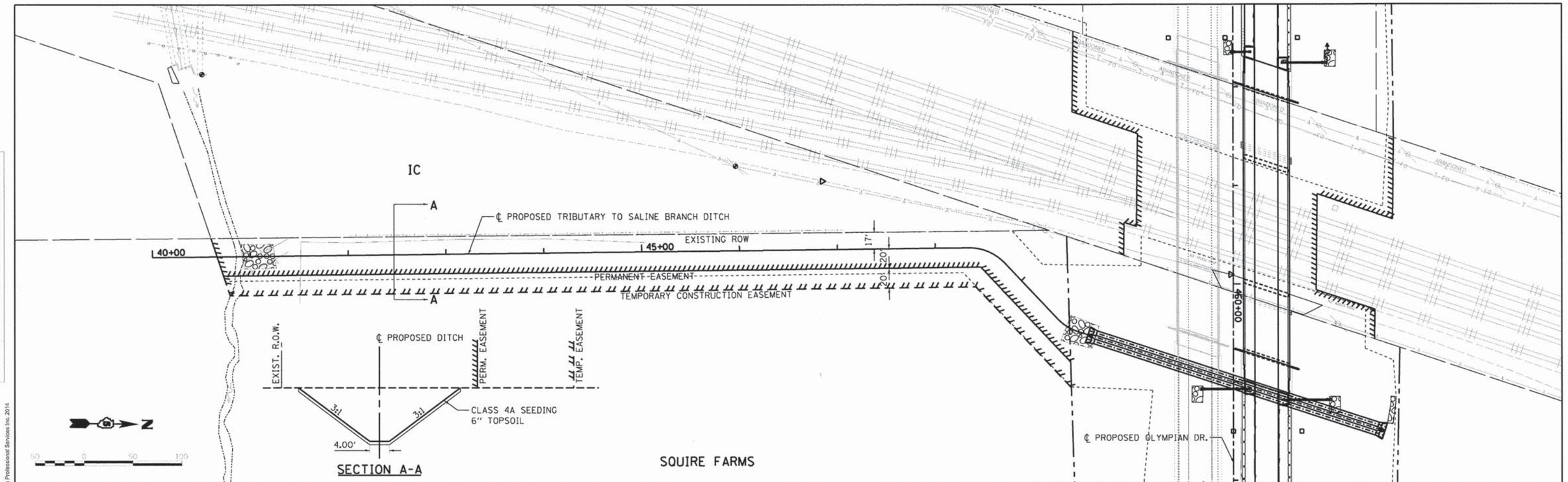
LAYOUT	RSJ	02/15/11
DRAWN	RSJ	02/22/11
REVIEWED	MH	02/28/12

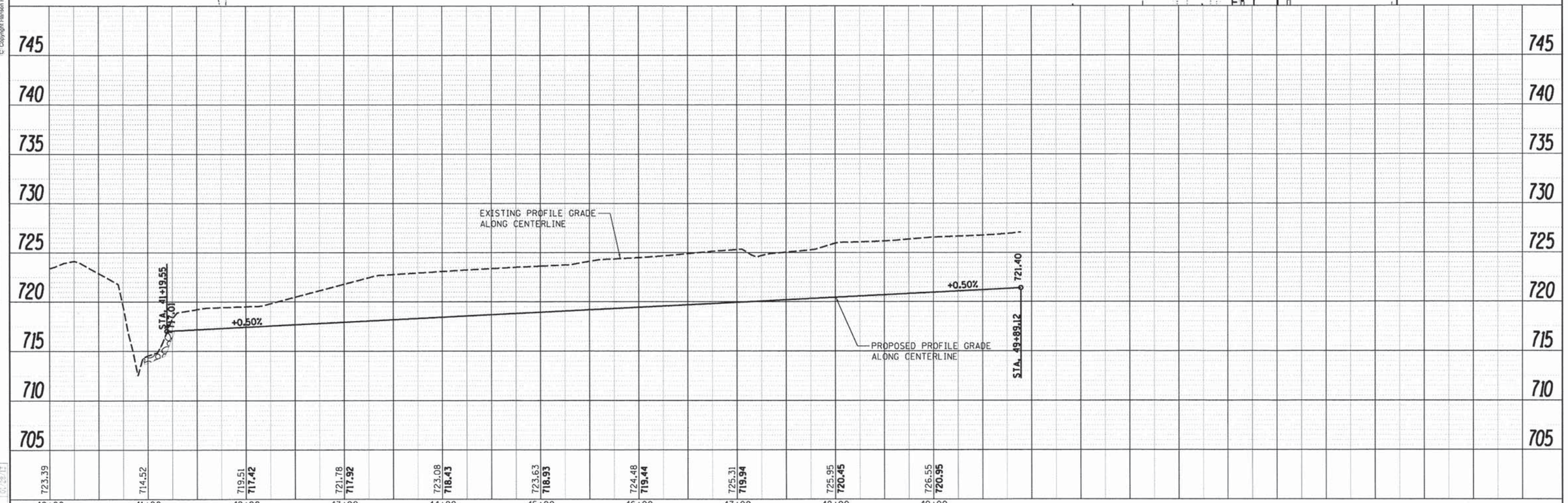
FILE NAME = C:\93-E.DTL\sign	USER NAME = johns02944	DESIGNED - M.H.	REVISED -
		DRAWN - R.S.J.	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED - M.H.	REVISED -
pond details	PLOT DATE = 01/21/2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS
BEAVER LAKE REGIONAL DETENTION POND
PROPOSED OLYMPIAN DR. EAST
SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	26
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			





PLAN — SURVEYED — BY — DATE
NOTE BOOK — ALIGNMENT CHECKED
NO. — GEO FILE NAME — PLOTTED

PROFILE — SURVEYED — BY — DATE
NOTE BOOK — POINTS CHECKED
VOL. — STRUCTURE NOTES DRAWN

LAYOUT — RSJ — 02/15/11
DRAWN — RSJ — 02/22/11
REVIEWED — MH — 01/28/14

FILE NAME = c:\pe\E_PP.dgn	USER NAME = juliea02944	DESIGNED - M.H.	REVISED -
MODEL NAME = Sheet 6	PLOT SCALE = 100.000 ' / in.	DRAWN - R.S.J.	REVISED -
	PLOT DATE = 01/21/2014	CHECKED - M.H.	REVISED -
		DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
TRIBUTARY TO SALINE DITCH
PROPOSED OLYMPIAN DR. EAST
SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. 41+00.00 | TO STA. 50+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	27
	10L0007	CONTRACT NO.	91470	
	ILLINOIS FED. AID PROJECT			

JARRELL, WESLEY M

HEIMBURGER, JUDY K

P.L.

PROPOSED R.O.W.

EXISTING GROUND
± ELEV. 725.25

4:1 4:1 2' ELEV. 723.75

SECTION B-B

POT Sta 100+00.00

100+00 105+00 110+00 115+00 120+00 125+00 130+00 135+00 140+00 145+00 150+00 155+00 160+00 165+00 170+00 175+00 180+00 185+00 190+00 195+00 200+00 205+00 210+00

STA. 103+85.00
136.58' LT

STA. 103+85.00
0.00' RT

STA. 103+85.00
93.94' RT

STA. 104+50.00
74.49' LT

STA. 104+50.00
0.00' RT

STA. 104+50.00
38.66' RT

STA. 104+03.95
79.62' RT

ELEV. 723.00

STA. 112+70.00
137.86' LT

STA. 112+27.71
96.86' LT

STA. 112+27.71
0.00' RT

STA. 112+27.71
51.03' RT

STA. 112+70.00
0.00' RT

STA. 112+70.00
93.94' RT

30'R

50' MIN.

±131'

℄ EAST BORROW AREA

PROPOSED DITCH

STA. 100+31.09
142.17' RT

ELEV. 724.25

STA. 100+91.48
180.70' RT

LINCOLN AVE.

FUTURE CONSTRUCTION

PROPERTY LINE

EXISTING GROUND

±726.00

4:1 10' 2:1

PROPOSED GRADING

ELEV. 700

2:1 4:1

FUTURE EXCAVATION

SECTION A-A

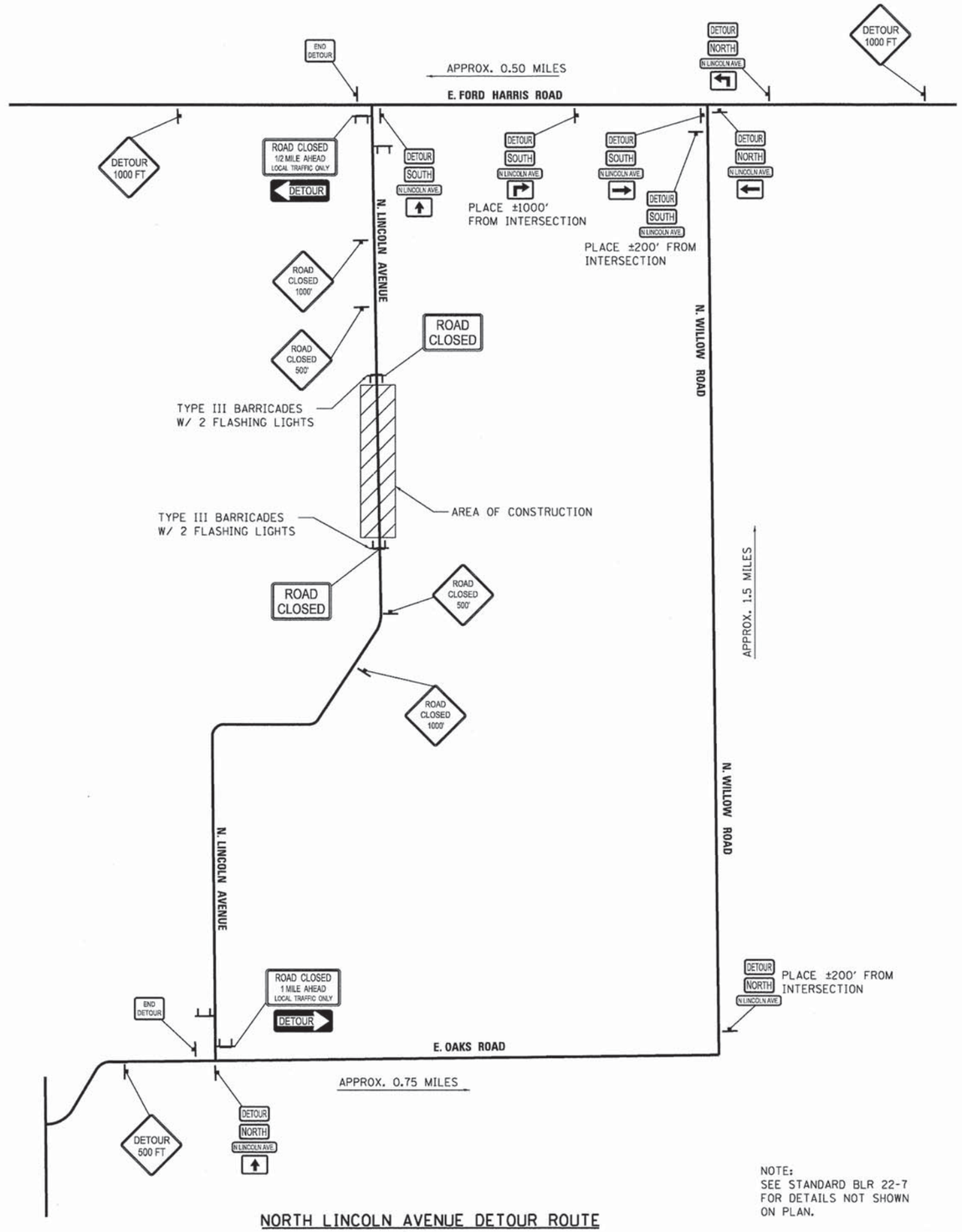
N

50 0 50 100

FILE NAME = c:\08 E_PP.dgn	USER NAME = johnv02944	DESIGNED - M.H.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISCELLANEOUS DETAILS BORROW AREA EAST PROPOSED OLYMPIAN DR. EAST
	PLOT SCALE = 100.000 ' / in.	DRAWN - R.S.J.	REVISED -		SCALE: 1" = 50' SHEET NO. OF SHEETS STA. 100+00.00 TO STA. 113+00.00
EAST BORROW	PLOT DATE = 01\21\2014	CHECKED - M.H.	REVISED -		
		DATE - 1/21/14	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	28
	10L0007	CONTRACT NO.	91470	
	ILLINOIS FED. AID PROJECT			

LAYOUT	RSJ	02/05/14
DRAWN	RSJ	02/22/13
REVIEWED	MH	01/30/13



SIGN	MUTCD CODE
ROAD CLOSED	R11-2
ROAD CLOSED 3/4 MILES AHEAD LOCAL TRAFFIC ONLY	R11-3A
DETOUR	M4-10
DETOUR	M4-8
END DETOUR	M4-8A
SOUTH	M3-3
NORTH	M3-1
N LINCOLN AVE	D3
	M5-1
	M6-1
	M6-3
ROAD CLOSED 1000'	W20-3
DETOUR 1500 FT	W20-2

NOTE:
SEE STANDARD BLR 22-7
FOR DETAILS NOT SHOWN
ON PLAN.

NORTH LINCOLN AVENUE DETOUR ROUTE

LAYOUT	RSJ	02/15/11	
DRAW	RSJ	02/22/11	
REVIEWED	MH	01/28/15	

FILE NAME = C-401-E_TC.dgn	USER NAME = johnsb0944	DESIGNED - M.H.	REVISED -
		DRAWN - R.S.J.	REVISED -
	PLOT SCALE = 100.000 ' / in.	CHECKED - M.H.	REVISED -
Traffic Control Detour	PLOT DATE = 01\21\2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH LINCOLN AVENUE DETOUR PLAN
PROPOSED OLYMPIAN DR. EAST

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	29
	10L0007	CONTRACT NO.	91470	
	ILLINOIS FED. AID PROJECT			

EROSION CONTROL LEGEND - (SEE SCHEDULES)

- EROSION CONTROL BLANKET
- RIPRAP
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET AND PIPE PROTECTION
- DRAINAGE PATTERN DIRECTION

TEMPORARY DITCH CHECK 150' SPACING (TYP.)

TEMPORARY DITCH CHECK 100' SPACING (TYP.)

INLET AND PIPE PROTECTION (TYP.)

STA. 435+00 TO STA. 447+50
200' TEMPORARY DITCH CHECKS

EXISTING R.O.W.

PROPOSED R.O.W.

℄ OLYMPIAN DR.

435+00

440+00

445+00

STA. 435+00
BEGIN PERIMETER
EROSION BARRIER

PERIMETER EROSION BARRIER
1300'

EXISTING R.O.W.

MATCHLINE STA. 447+50.00

25 SQ YD - STONE RIPRAP CLASS A3
25 SQ YD - FILTER FABRIC
SEE RIPRAP DETAIL

26 SQ YD - STONE RIPRAP CLASS A3
26 SQ YD - FILTER FABRIC
SEE RIPRAP DETAIL

INTENDED SEQUENCE

1. PLACEMENT OF PERIMETER EROSION BARRIER PRIOR TO COMMENCEMENT OF ANY WORK. SEE STANDARD 280001.
2. PLACEMENT OF INLET AND PIPE PROTECTION ON EXISTING CULVERTS PRIOR TO COMMENCEMENT OF WORK. PLACEMENT OF INLET AND PIPE PROTECTION AFTER CONSTRUCTION OF PROPOSED STRUCTURES. SEE STANDARD 280001.
3. PLACEMENT OF TEMPORARY SEEDING ON GRADED SURFACES NOT HAVING PERMANENT SEEDING APPLIED.
4. PLACEMENT OF TEMPORARY DITCH CHECKS AFTER DITCH GRADING IS COMPLETE. SEE STANDARD 280001.
5. PLACEMENT OF EROSION CONTROL BLANKET AFTER FINAL GRADING AROUND CULVERTS.
6. ON GOING MAINTENANCE OF EROSION CONTROL ELEMENTS PER THE SWPPP.
7. REMOVE TEMPORARY EROSION CONTROL ELEMENTS AFTER FINAL GRADING AND PERMANENT SEEDING ESTABLISHED AS PER THE SWPPP AND APPROVED BY THE ENGINEER.

N

50 0 50 100

TEMPORARY DITCH CHECK 150' SPACING (TYP.)

INLET AND PIPE PROTECTION (TYP.)

451+50
END EROSION
CONTROL
BLANKET

EROSION CONTROL BLANKET-5545 SQ YD

16 SQ YD - STONE RIPRAP CLASS A3
16 SQ YD - FILTER FABRIC
SEE RIPRAP DETAIL

20 SQ YD - STONE RIPRAP CLASS A3
20 SQ YD - FILTER FABRIC
SEE RIPRAP DETAIL

PROPOSED R.O.W.

EXISTING R.O.W.

℄ OLYMPIAN DR.

TEMPORARY DITCH CHECK 50' SPACING (TYP.)

87 SQ YD - STONE RIPRAP CLASS A3
87 SQ YD - FILTER FABRIC
SEE RIPRAP DETAIL

INLET FILTERS

MATCHLINE STA. 447+50.00

EROSION CONTROL BLANKET-2863 SQ YD

81 SQ YD - STONE RIPRAP CLASS A3
81 SQ YD - FILTER FABRIC
SEE RIPRAP DETAIL

EROSION CONTROL BLANKET-5981 SQ YD

448+00

450+00

MATCHLINE STA. 462+50.00

STA. 450+00
BEGIN PERIMETER
EROSION BARRIER

451+50
END EROSION
CONTROL
BLANKET

EXISTING R.O.W.

PERIMETER EROSION BARRIER
250'

TEMPORARY DITCH CHECK
150' SPACING (TYP.)

TEMPORARY DITCH CHECK
100' SPACING
BERM DITCH LT/RT (TYP.)

138 SQ YD - STONE RIPRAP CLASS A1 AND A4
138 SQ YD - FILTER FABRIC
SEE RIPRAP DETAIL

INLET AND PIPE
PROTECTION (TYP.)

STA. 447+50 TO STA. 458+50
430' TEMPORARY DITCH CHECKS

13 SQ YD - STONE RIPRAP CLASS A3
13 SQ YD - FILTER FABRIC
SEE RIPRAP DETAIL

20 SQ YD - STONE RIPRAP CLASS A3
20 SQ YD - FILTER FABRIC
SEE RIPRAP DETAIL

78 SQ YD - STONE RIPRAP CLASS A1 AND A4
78 SQ YD - FILTER FABRIC
SEE RIPRAP DETAIL

N

50 0 50 100

LAYOUT	RSJ	02/15/11
DRAWN	RSJ	02/22/11
REVIEWED	MH	01/28/13

HANSON

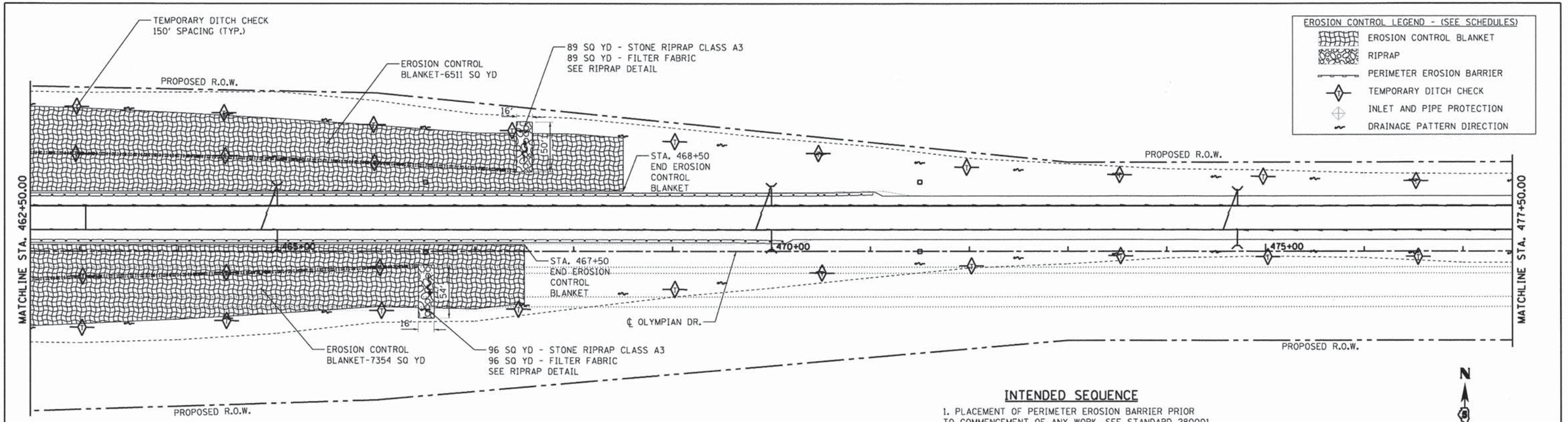
FILE NAME = c-101-E_ER.dgn	USER NAME = johns00944	DESIGNED - M.H.	REVISED -
		DRAWN - R.S.J.	REVISED -
EROSION 1	PLOT SCALE = 100.0000 ' / in.	CHECKED - M.H.	REVISED -
	PLOT DATE = 03\12\2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL
PROPOSED OLYMPIAN DR. EAST

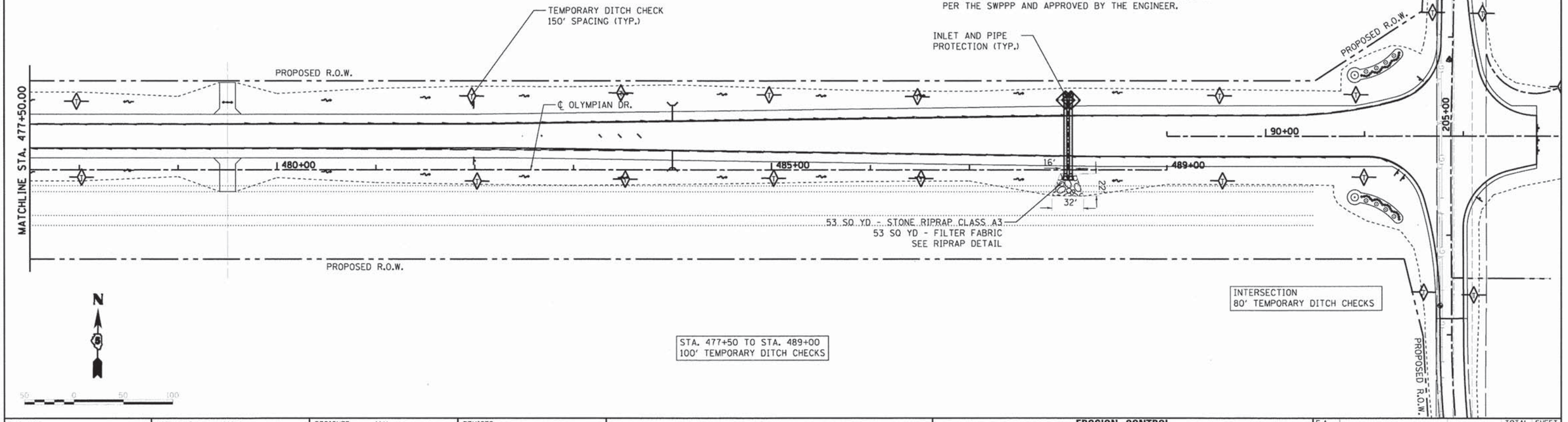
SCALE: 1" = 50' | SHEET NO. 1 OF 5 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	30
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



INTENDED SEQUENCE

1. PLACEMENT OF PERIMETER EROSION BARRIER PRIOR TO COMMENCEMENT OF ANY WORK. SEE STANDARD 280001.
2. PLACEMENT OF INLET AND PIPE PROTECTION ON EXISTING CULVERTS PRIOR TO COMMENCEMENT OF WORK. PLACEMENT OF INLET AND PIPE PROTECTION AFTER CONSTRUCTION OF PROPOSED STRUCTURES. SEE STANDARD 280001.
3. PLACEMENT OF TEMPORARY SEEDING ON GRADED SURFACES NOT HAVING PERMANENT SEEDING APPLIED.
4. PLACEMENT OF TEMPORARY DITCH CHECKS AFTER DITCH GRADING IS COMPLETE. SEE STANDARD 280001.
5. PLACEMENT OF EROSION CONTROL BLANKET AFTER FINAL GRADING AROUND CULVERTS.
6. ON GOING MAINTENANCE OF EROSION CONTROL ELEMENTS PER THE SWPPP.
7. REMOVE TEMPORARY EROSION CONTROL ELEMENTS AFTER FINAL GRADING AND PERMANENT SEEDING ESTABLISHED AS PER THE SWPPP AND APPROVED BY THE ENGINEER.



LAYOUT	RSJ	02/15/21	
DRAWN	RSJ	02/22/21	
REVIEWED	MH	04/28/15	

FILE NAME = c:\02-E.ER.dgn	USER NAME = johns08944	DESIGNED - M.H.	REVISED -
		DRAWN - R.S.J.	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - M.H.	REVISED -
EROSION 2	PLOT DATE = 01/21/2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL
PROPOSED OLYMPIAN DR. EAST

SCALE: 1" = 50' | SHEET NO. 2 OF 5 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	31
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

EROSION CONTROL LEGEND - (SEE SCHEDULES)

- EROSION CONTROL BLANKET
- RIPRAP
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET AND PIPE PROTECTION
- DRAINAGE PATTERN DIRECTION

INLET AND PIPE PROTECTION (TYP.)

INLET AND PIPE PROTECTION (TYP.)

STA. 33+50
BEGIN PERIMETER EROSION BARRIER

16'

12'

117 SQ YD - STONE RIPRAP CLASS A3
117 SQ YD - FILTER FABRIC
SEE RIPRAP DETAIL

TEMPORARY DITCH CHECK
150' SPACING (TYP.)

25+00

30+60

35+00

INLET AND PIPE PROTECTION (TYP.)

PERIMETER EROSION BARRIER
1800'

STA. 27+60

STA. 28+12

PERIMETER EROSION BARRIER
845'

STA. 36+50
END PERIMETER EROSION BARRIER

STA. 29+00 TO STA. 37+00
210' TEMPORARY DITCH CHECKS

INTENDED SEQUENCE

1. PLACEMENT OF PERIMETER EROSION BARRIER PRIOR TO COMMENCEMENT OF ANY WORK. SEE STANDARD 280001.
2. PLACEMENT OF INLET AND PIPE PROTECTION ON EXISTING CULVERTS PRIOR TO COMMENCEMENT OF WORK. PLACEMENT OF INLET AND PIPE PROTECTION AFTER CONSTRUCTION OF PROPOSED STRUCTURES. SEE STANDARD 280001.
3. PLACEMENT OF TEMPORARY SEEDING ON GRADED SURFACES NOT HAVING PERMANENT SEEDING APPLIED.
4. PLACEMENT OF TEMPORARY DITCH CHECKS AFTER DITCH GRADING IS COMPLETE. SEE STANDARD 280001.
5. PLACEMENT OF EROSION CONTROL BLANKET AFTER FINAL GRADING AROUND CULVERTS.
6. ON GOING MAINTENANCE OF EROSION CONTROL ELEMENTS PER THE SWPPP.
7. REMOVE TEMPORARY EROSION CONTROL ELEMENTS AFTER FINAL GRADING AND PERMANENT SEEDING ESTABLISHED AS PER THE SWPPP AND APPROVED BY THE ENGINEER.

50 0 50 100

HANSON

LAYOUT	RSJ	02/15/14	
DRAWN	RSJ	02/22/14	
REVIEWED	MH	02/28/14	

FILE NAME =	USER NAME = johns02944	DESIGNED - M.H.	REVISED -
c:103-E.E.R.dgn		DRAWN - R.S.J.	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - M.H.	REVISED -
EROSION 3	PLOT DATE = 3/12/2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL
PROPOSED OLYMPIAN DR. EAST

SCALE: 1" = 50' | SHEET NO. 3 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	32
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

JARRELL, WESLEY M

PROPOSED R.O.W.

P.L.

50' MIN.

N

POT Sta 100+00.00

100+00

105+00

110+00

℄ EAST BORROW AREA

64 SQ YD - STONE RIPRAP CLASS A3
64 SQ YD - FILTER FABRIC
SEE RIPRAP DETAIL

TEMPORARY DITCH CHECK
150' SPACING (TYP.)

PROPOSED DITCH

STA. 101+00 TO STA. 104+00
30' TEMPORARY DITCH CHECKS

HEIMBURGER, JUDY K

205+00

195+00

FUTURE CONSTRUCTION

92 SQ YD - STONE RIPRAP CLASS A3
92 SQ YD - FILTER FABRIC
SEE RIPRAP DETAIL

140+00

145+00

TEMPORARY DITCH CHECK
150' SPACING (TYP.)

STA. 42+00 TO STA. 49+00
210' TEMPORARY DITCH CHECKS

INTENDED SEQUENCE

1. PLACEMENT OF PERIMETER EROSION BARRIER PRIOR TO COMMENCEMENT OF ANY WORK. SEE STANDARD 280001.
2. PLACEMENT OF INLET AND PIPE PROTECTION ON EXISTING CULVERTS PRIOR TO COMMENCEMENT OF WORK. PLACEMENT OF INLET AND PIPE PROTECTION AFTER CONSTRUCTION OF PROPOSED STRUCTURES. SEE STANDARD 280001.
3. PLACEMENT OF TEMPORARY SEEDING ON GRADED SURFACES NOT HAVING PERMANENT SEEDING APPLIED.
4. PLACEMENT OF TEMPORARY DITCH CHECKS AFTER DITCH GRADING IS COMPLETE. SEE STANDARD 280001.
5. PLACEMENT OF EROSION CONTROL BLANKET AFTER FINAL GRADING AROUND CULVERTS.
6. ON GOING MAINTENANCE OF EROSION CONTROL ELEMENTS PER THE SWPPP.
7. REMOVE TEMPORARY EROSION CONTROL ELEMENTS AFTER FINAL GRADING AND PERMANENT SEEDING ESTABLISHED AS PER THE SWPPP AND APPROVED BY THE ENGINEER.

EROSION CONTROL LEGEND - (SEE SCHEDULES)

- EROSION CONTROL BLANKET
- RIPRAP
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET AND PIPE PROTECTION
- DRAINAGE PATTERN DIRECTION

50 0 50 100

HANSON

LAYOUT	RSJ	02/15/11
DRAWN	RSJ	02/22/11
REVIEWED	MH	01/29/13

FILE NAME = c:\04-E_ER.dgn	USER NAME = johns08944	DESIGNED - M.H.	REVISED -
		DRAWN - R.S.J.	REVISED -
	PLOT SCALE = 100.000 ' / in.	CHECKED - M.H.	REVISED -
EAST BORROW	PLOT DATE = 01/21/2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL
PROPOSED OLYMPIAN DR. EAST

SCALE: 1" = 50' | SHEET NO. 4 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	33
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

STA. 199+00 TO STA. 203+00
60' TEMPORARY DITCH CHECKS

STA. 206+50 TO STA. 209+50
60' TEMPORARY DITCH CHECKS

℄ PROPOSED OLYMPIAN DR.

STA. 91+87.20 OLYMPIAN DR.
STA. 205+00.00 LICOLN AVE.

℄ PROPOSED LINCOLN AVE.

PROPOSED R.O.W.

FUTURE CONSTRUCTION

INLET AND PIPE PROTECTION (TYP.)

200+00

205+00

210+00

TEMPORARY DITCH CHECK
150' SPACING (TYP.)

INTENDED SEQUENCE

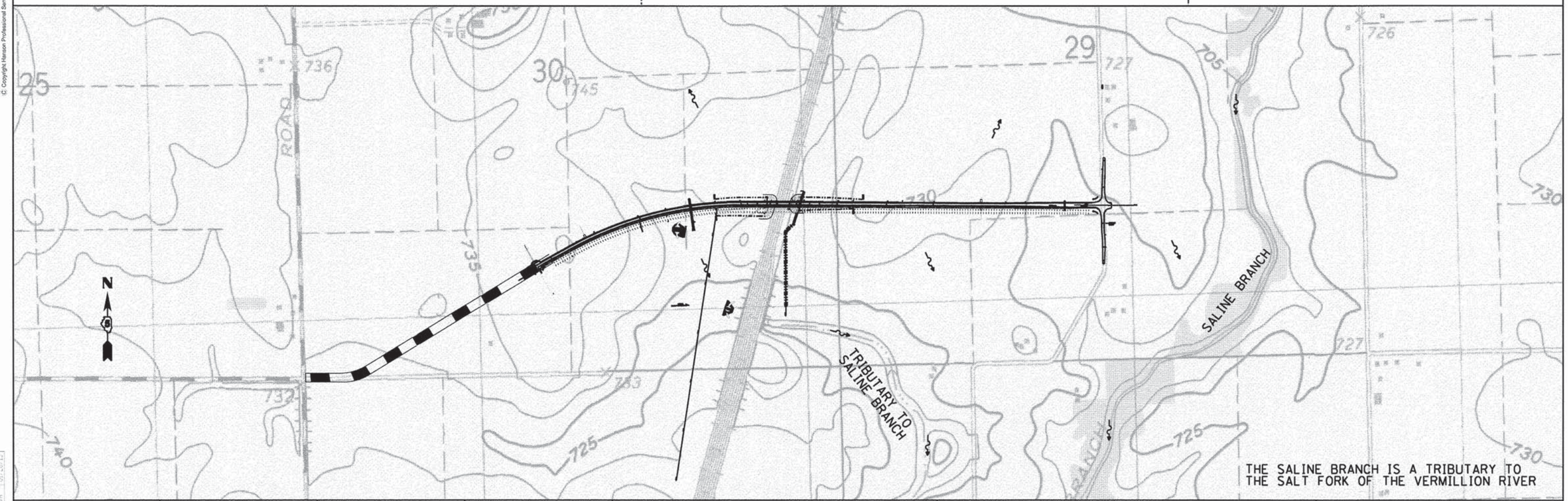
1. PLACEMENT OF PERIMETER EROSION BARRIER PRIOR TO COMMENCEMENT OF ANY WORK. SEE STANDARD 280001.
2. PLACEMENT OF INLET AND PIPE PROTECTION ON EXISTING CULVERTS PRIOR TO COMMENCEMENT OF WORK. PLACEMENT OF INLET AND PIPE PROTECTION AFTER CONSTRUCTION OF PROPOSED STRUCTURES. SEE STANDARD 280001.
3. PLACEMENT OF TEMPORARY SEEDING ON GRADED SURFACES NOT HAVING PERMANENT SEEDING APPLIED.
4. PLACEMENT OF TEMPORARY DITCH CHECKS AFTER DITCH GRADING IS COMPLETE. SEE STANDARD 280001.
5. PLACEMENT OF EROSION CONTROL BLANKET AFTER FINAL GRADING AROUND CULVERTS.
6. ON GOING MAINTENANCE OF EROSION CONTROL ELEMENTS PER THE SWPPP.
7. REMOVE TEMPORARY EROSION CONTROL ELEMENTS AFTER FINAL GRADING AND PERMANENT SEEDING ESTABLISHED AS PER THE SWPPP AND APPROVED BY THE ENGINEER.

EROSION CONTROL LEGEND - (SEE SCHEDULES)

- EROSION CONTROL BLANKET
- RIPRAP
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET AND PIPE PROTECTION
- DRAINAGE PATTERN DIRECTION

N

50 0 50 100



THE SALINE BRANCH IS A TRIBUTARY TO THE SALT FORK OF THE VERMILLION RIVER

HANSON

LAYOUT	PSJ	02/15/14
DESIGN	PSJ	02/25/14
REVIEWED	MH	01/30/15

FILE NAME = C:\01\L\ER.dgn	USER NAME = johns08944	DESIGNED - M.H.	REVISED -
		DRAWN - R.S.J.	REVISED -
	PLOT SCALE = 100.000 ' / in.	CHECKED - M.H.	REVISED -
EROSION 1	PLOT DATE = 01\21\2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL
PROPOSED LINCOLN AVENUE

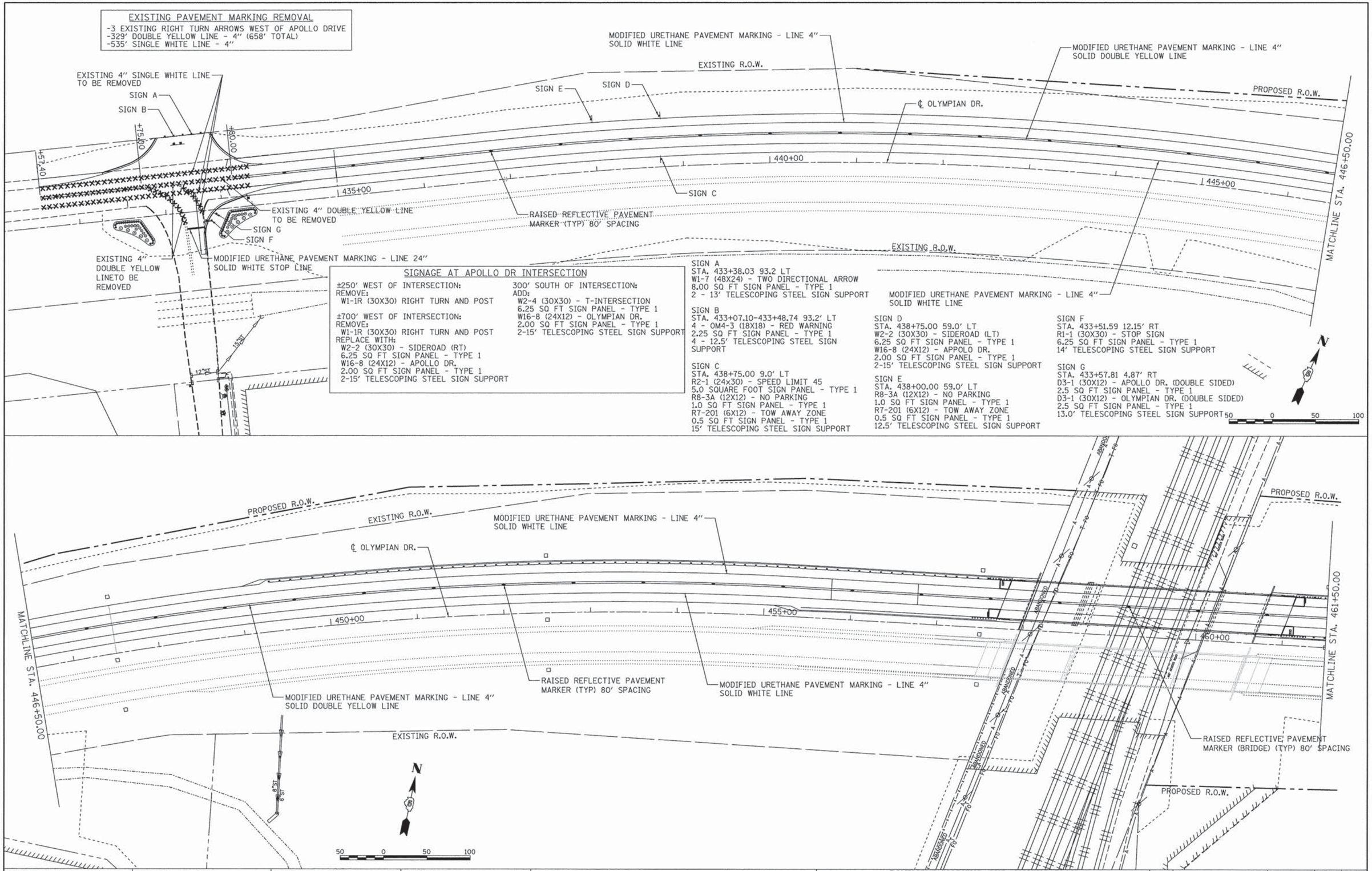
SCALE: 1" = 50' | SHEET NO. 5 OF 5 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	34
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

HANSON

EXISTING PAVEMENT MARKING REMOVAL

-3 EXISTING RIGHT TURN ARROWS WEST OF APOLLO DRIVE
-329' DOUBLE YELLOW LINE - 4" (658' TOTAL)
-535' SINGLE WHITE LINE - 4"



SIGNAGE AT APOLLO DR INTERSECTION

±250' WEST OF INTERSECTION:
REMOVE:
W1-1R (30X30) RIGHT TURN AND POST

±700' WEST OF INTERSECTION:
REMOVE:
W1-1R (30X30) RIGHT TURN AND POST
REPLACE WITH:
W2-2 (30X30) - SIDEROAD (RT)
6.25 SQ FT SIGN PANEL - TYPE 1
W16-8 (24X12) - APOLLO DR.
2.00 SQ FT SIGN PANEL - TYPE 1
2-15' TELESCOPING STEEL SIGN SUPPORT

300' SOUTH OF INTERSECTION:
ADD:
W2-4 (30X30) - T-INTERSECTION
6.25 SQ FT SIGN PANEL - TYPE 1
W16-8 (24X12) - OLYMPIAN DR.
2.00 SQ FT SIGN PANEL - TYPE 1
2-15' TELESCOPING STEEL SIGN SUPPORT

SIGN A
STA. 433+38.03 93.2 LT
W1-7 (48X24) - TWO DIRECTIONAL ARROW
8.00 SQ FT SIGN PANEL - TYPE 1
2 - 13' TELESCOPING STEEL SIGN SUPPORT

SIGN B
STA. 433+07.10-433+48.74 93.2' LT
4 - OM4-3 (18X18) - RED WARNING
2.25 SQ FT SIGN PANEL - TYPE 1
4 - 12.5' TELESCOPING STEEL SIGN SUPPORT

SIGN C
STA. 438+75.00 9.0' LT
R2-1 (24x30) - SPEED LIMIT 45
5.0 SQUARE FOOT SIGN PANEL - TYPE 1
R8-3A (12X12) - NO PARKING
1.0 SQ FT SIGN PANEL - TYPE 1
R7-201 (6X12) - TOW AWAY ZONE
0.5 SQ FT SIGN PANEL - TYPE 1
15' TELESCOPING STEEL SIGN SUPPORT

SIGN D
STA. 438+75.00 59.0' LT
W2-2 (30X30) - SIDEROAD (LT)
6.25 SQ FT SIGN PANEL - TYPE 1
W16-8 (24X12) - APPOLO DR.
2.00 SQ FT SIGN PANEL - TYPE 1
2-15' TELESCOPING STEEL SIGN SUPPORT

SIGN E
STA. 438+00.00 59.0' LT
R8-3A (12X12) - NO PARKING
1.0 SQ FT SIGN PANEL - TYPE 1
R7-201 (6X12) - TOW AWAY ZONE
0.5 SQ FT SIGN PANEL - TYPE 1
12.5' TELESCOPING STEEL SIGN SUPPORT

SIGN F
STA. 433+51.59 12.15' RT
R1-1 (30X30) - STOP SIGN
6.25 SQ FT SIGN PANEL - TYPE 1
14' TELESCOPING STEEL SIGN SUPPORT

SIGN G
STA. 433+57.81 4.87' RT
D3-1 (30X12) - APOLLO DR. (DOUBLE SIDED)
2.5 SQ FT SIGN PANEL - TYPE 1
D3-1 (30X12) - OLYMPIAN DR. (DOUBLE SIDED)
2.5 SQ FT SIGN PANEL - TYPE 1
13.0' TELESCOPING STEEL SIGN SUPPORT

LAYOUT	RSJ	02/15/11
DRAWN	RSJ	02/22/11
REVIEWED	MH	01/28/13

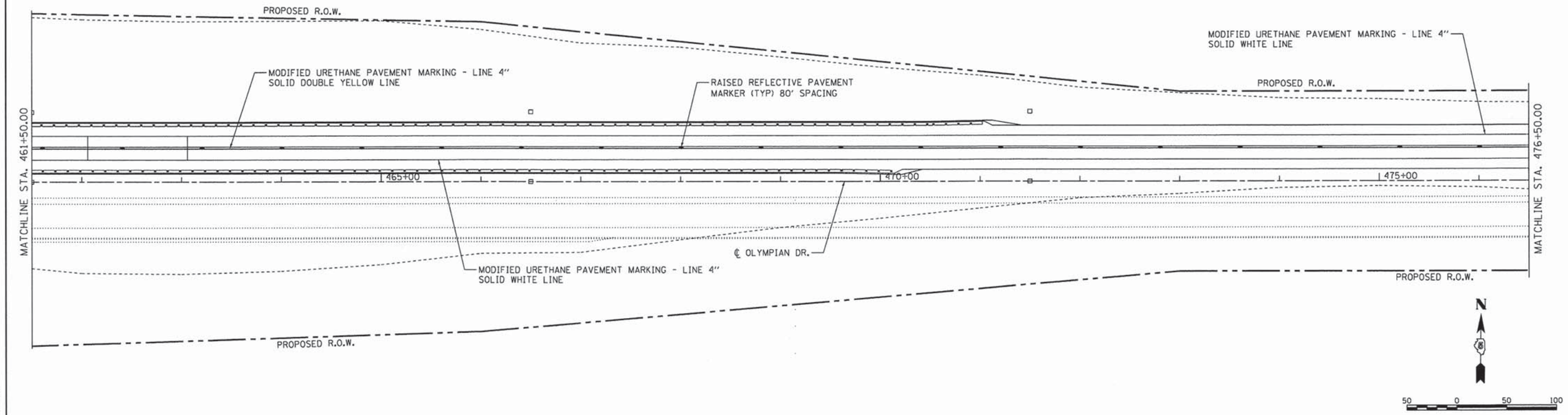
FILE NAME = c-101-E_PM.dgn	USER NAME = johns00944	DESIGNED - M.H.	REVISED -
		DRAWN - R.S.J.	REVISED -
MARKING 1	PLOT SCALE = 100.0000 ' / in.	CHECKED - M.H.	REVISED -
	PLOT DATE = 03\12\2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
PROPOSED OLYMPIAN DR. EAST

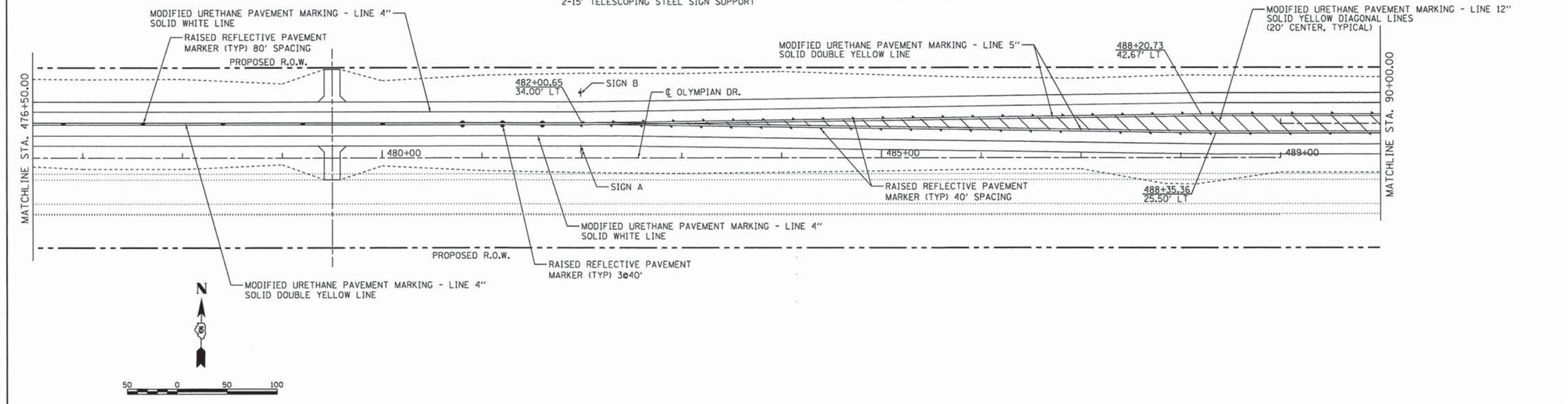
SCALE: 1" = 50' | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	35
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



SIGN A
STA. 482+00.00, 9.0' LT
W2-4 (30X30) - T-INTERSECTION
6.25 SQ FT SIGN PANEL - TYPE 1
W16-8 (24X12) - N. LINCOLN AVE.
2.00 SQ FT SIGN PANEL - TYPE 1
2-15' TELESCOPING STEEL SIGN SUPPORT

SIGN B
STA. 482+00.00 59' LT
R2-1 (30X24) - SPEED LIMIT 45
5.0 SQ FT SIGN PANEL - TYPE 1
13.5' TELESCOPING STEEL SIGN SUPPORT



LAYOUT	RSJ	02/15/11
DRAWN	RSJ	02/22/11
REVIEWED	MH	01/28/13

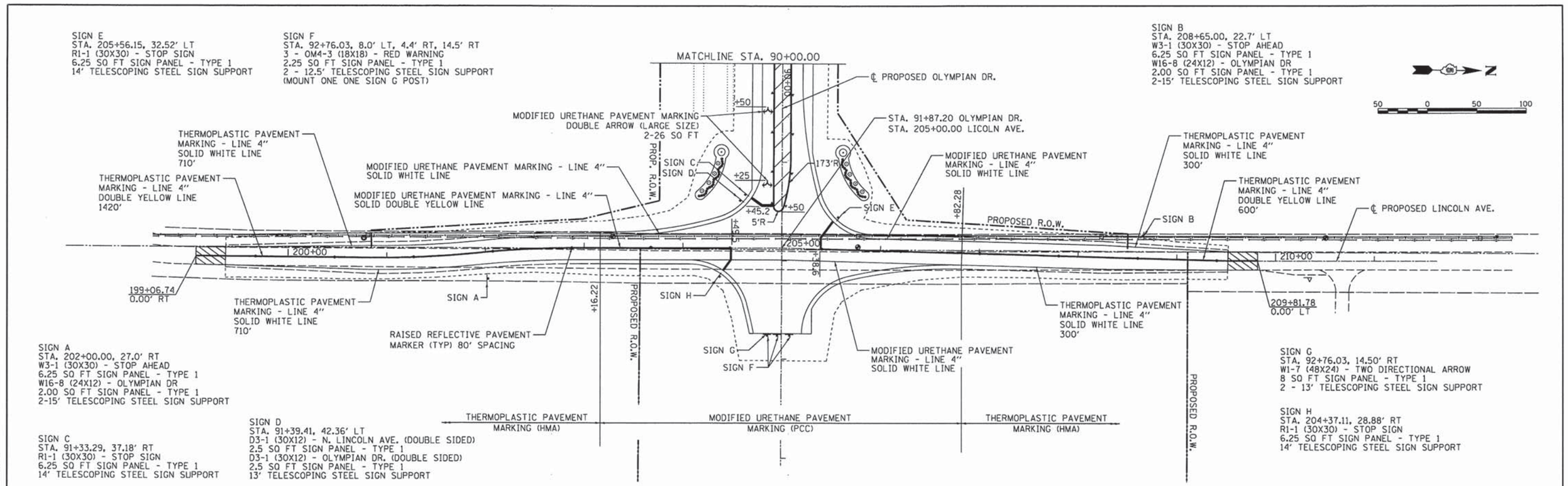
FILE NAME = c-182-E.PM.dgn	USER NAME = johns88944	DESIGNED - M.H.	REVISED -
		DRAWN - R.S.J.	REVISED -
	PLOT SCALE = 99.9998 ' / in.	CHECKED - M.H.	REVISED -
MARKING 2	PLOT DATE = 02\25\2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
PROPOSED OLYMPIAN DR. EAST

SCALE: 1" = 50' | SHEET NO. 2 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	36
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



LAYOUT	RSJ	02/15/11
DRAWN	RSJ	02/22/11
REVIEWED	MH	01/28/13

FILE NAME = C-181-L_PM.dgn	USER NAME = johns00944	DESIGNED - M.H.	REVISED -
		DRAWN - R.S.J.	REVISED -
	PLOT SCALE = 100.000 ' / in.	CHECKED - M.H.	REVISED -
Marking 3	PLOT DATE = 02\25\2014	DATE - 1/21/14	REVISED -

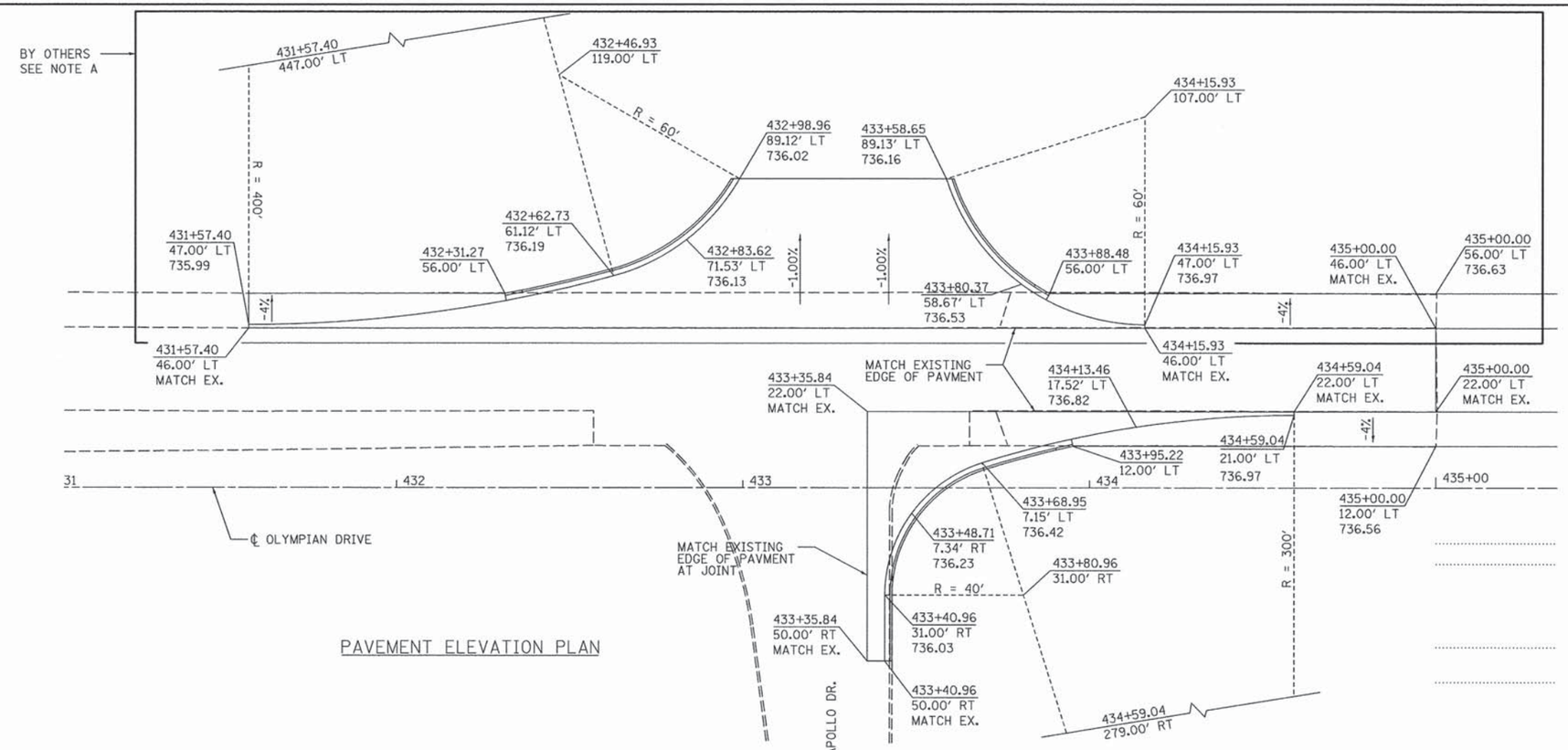
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
PROPOSED LINCOLN AVENUE

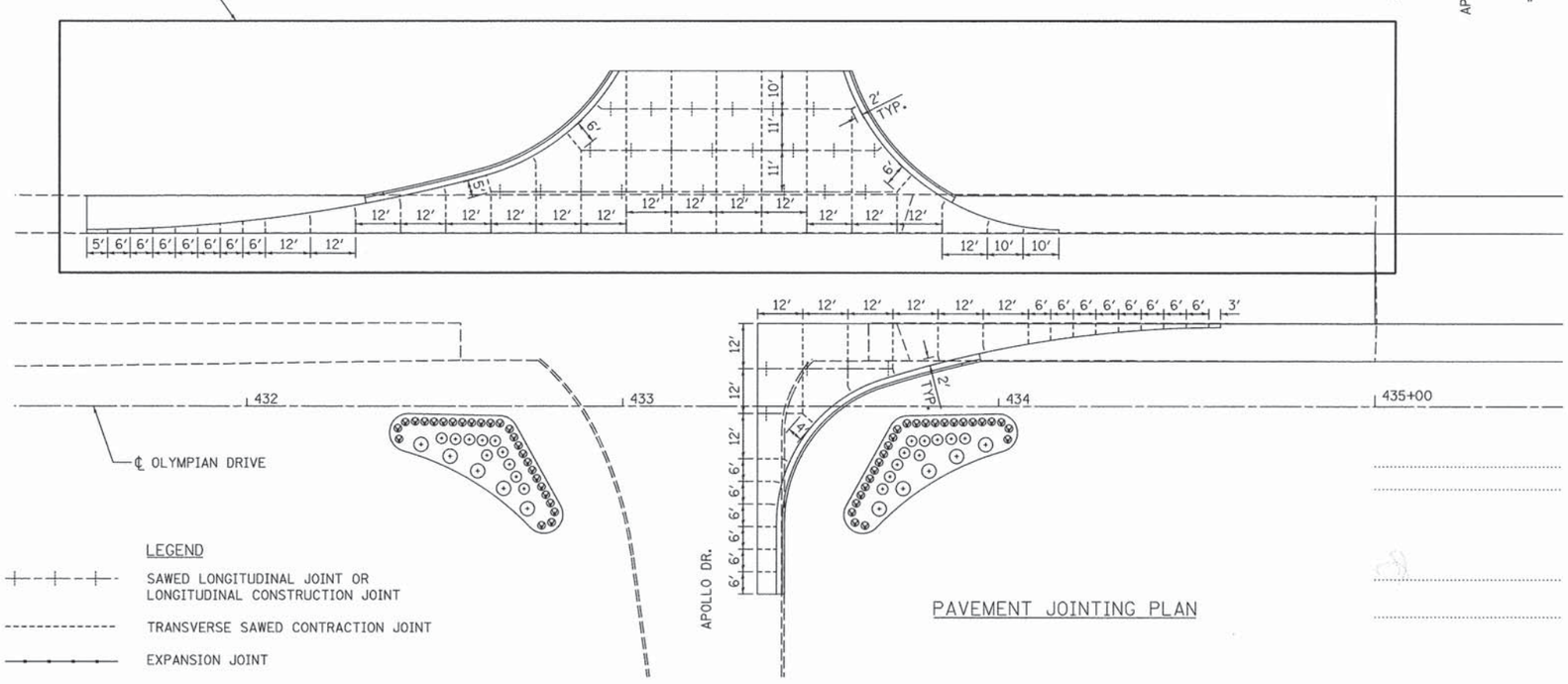
SCALE: 1" = 50' | SHEET NO. 3 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	37
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

NOTE A:
PROPOSED CONCRETE PAVEMENT AND CURB AND GUTTER SHALL BE INSTALLED BY OTHERS. AN 8" AGGREGATE SURFACE COURSE TYPE B SHALL BE INSTALLED UP TO THE EXISTING HMA SHOULDER USING THE GEOMETRIC LAYOUT SHOWN.



PAVEMENT ELEVATION PLAN



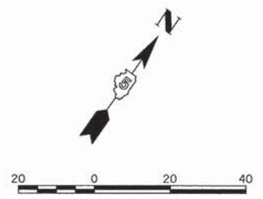
LEGEND

SAWED LONGITUDINAL JOINT OR LONGITUDINAL CONSTRUCTION JOINT

TRANSVERSE SAWED CONTRACTION JOINT

EXPANSION JOINT

PAVEMENT JOINTING PLAN



LAYOUT	RSJ	02/15/11
DRAWN	RSJ	02/22/11
REVIEWED	MH	01/28/13

FILE NAME = C-404-E_INT.dgn	USER NAME = johns00944	DESIGNED - M.H.	REVISED -
		DRAWN - R.S.J.	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - M.H.	REVISED -
INTERSECTION DTL	PLOT DATE = 03\10\2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APOLLO DRIVE INTERSECTION
PAVEMENT ELEVATION & JOINTING DETAIL
PROPOSED OLYMPIAN DR. EAST

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	38
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

HANSON

90+17.45
470.67' LT

206+82.28
0.00' LT
727.02

HMA PVMNT

207+00.00
20.94' RT
725.45

206+82.28
12.00' RT
726.84

R = 450'

PCC PVMNT

206+75.00
0.00' LT
727.01

206+82.28
12.00' LT
726.84

206+75.00
12.06' RT
726.83

206+75.00
12.00' LT
726.83

206+50.00
0.00' LT
726.99

206+50.00
23.34' LT
725.13

206+50.00
13.16' RT
726.79

206+50.00
12.00' LT
726.81

206+25.00
0.00' LT
727.00

96+53.20
171.78' LT

206+24.18
15.77' RT
726.77

206+25.00
12.00' LT
726.82

206+00.00
19.59' RT
726.80

91+17.30
93.67' R

206+00.00
12.00' LT
726.87

206

206+00.00
0.00' LT
727.05

R = 60'

205+62.14
40.83' RT
724.25

205+92.06
12.00' LT
726.88

205+67.06
27.00' RT
726.91

92+74.04
80.48' R

91+34.70
52.80' LT
724.25

205+56.01
24.04' LT
726.93

205+75.00
0.00' RT
727.13

OLYMPIAN STA. 491+87.20=
LINCOLN STA. 205+00.00

91+32.66
35.67' LT
727.03

R = 450'

89+25.00
43.55' LT
723.37

℄ OLYMPIAN DRIVE
INTERSECTION

90+25.00
42.30' LT
723.81

90+75.54
24.43' LT
727.03

92+36.91
33.35' LT
727.30

R = 60'

205+50.00
0.00' RT
727.24

89+00.00
20.67' LT
726.55

89+25.00
20.67' LT
726.63

89+50.00
20.67' LT
726.70

89+75.00
20.67' LT
726.78

90+00.00
20.67' LT
726.85

90+17.45
20.67' LT
726.91

92+74.04
20.48' LT
727.68

205+25.00
0.00' RT
727.36

POT Sta 89+00.00

89+00.00
0.00' RT
726.86

89+25.00
0.00' LT
726.93

89+75.00
0.00' LT
727.09

90+25.00
0.00' LT
727.24

90+75.00
0.00' LT
727.39

91+25.00
0.00' LT
727.54

91+75.00
0.00' LT
727.69

205+00

89°42'14"

92+25.00
0.00' RT
727.84

89

90+00

91

92

93

94

89+00.00
20.50' RT
726.55

89+50.00
0.00' LT
727.01

90+00.00
0.00' RT
727.17

90+50.00
0.00' LT
727.32

91+00.00
0.00' RT
727.47

91+50.00
0.00' LT
727.62

91+87.20
0.00' RT
727.73

92+00.00
0.00' RT
727.77

89°42'42"

92+50.00
0.00' RT
727.92

92+74.03
0.00' RT
727.99

92+44.31
35.19' RT
727.35

92+74.03
28.38' RT
727.56

489

89+25.00
20.50' RT
726.63

89+50.00
20.50' RT
726.70

89+75.00
20.50' RT
726.78

90+00.00
20.50' RT
726.86

90+25.00
20.50' RT
726.93

90+50.00
20.50' RT
727.01

90+75.00
20.50' RT
727.08

91+02.60
20.50' RT
727.17

91+38.54
32.45' RT
726.78

204+75.00
0.00' LT
727.36

204+50.00
0.00' LT
727.00

92+59.11
31.53' RT
727.47

R = 60'

91+24.96
46.92' RT
723.36

204+43.16
24.54' RT
726.77

204+36.60
27.36' LT
726.39

89+25.00
45.22'
722.77

90+50.00
44.87' RT
723.15

91+02.80
80.50 R

204+25.00
0.00' LT
726.64

204+06.45
12.00' RT
726.20

92+59.67
93.19 R

204+00.00
0.00' RT
726.28

204

R = 60'

204+00.00
18.66' LT
726.00

204+00.00
23.60' RT
723.05

R = 450'

204+00.00
12.00' RT
726.10

203+82.95
15.86' LT
725.80

203+85.00
32.93' LT
722.52

203+75.00
12.00' RT
725.74

203+75.00
0.00' RT
725.92

℄ LINCOLN AVENUE

203+50.00
0.00' RT
725.57

203+50.00
12.00' RT
725.39

203+50.00
12.61' LT
725.38

487+86.07
139.81' RT

203+25.00
0.00' RT
725.21

93+59.52
470.19' RT

203+25.00
12.00' RT
725.03

203+28.22
12.00' LT
725.07

203+16.22
12.00' RT
724.90

R = 390'

203+25.00
25.55' LT
722.37

PCC PVMNT

203+16.22
12.00' LT
724.90

HMA PVMNT

203+16.22
0.00' LT
725.08

203

N

20 0 20 40

LAYOUT	RSJ	02/15/11
DRAWN	RSJ	02/22/11
REVIEWED	MH	01/28/13

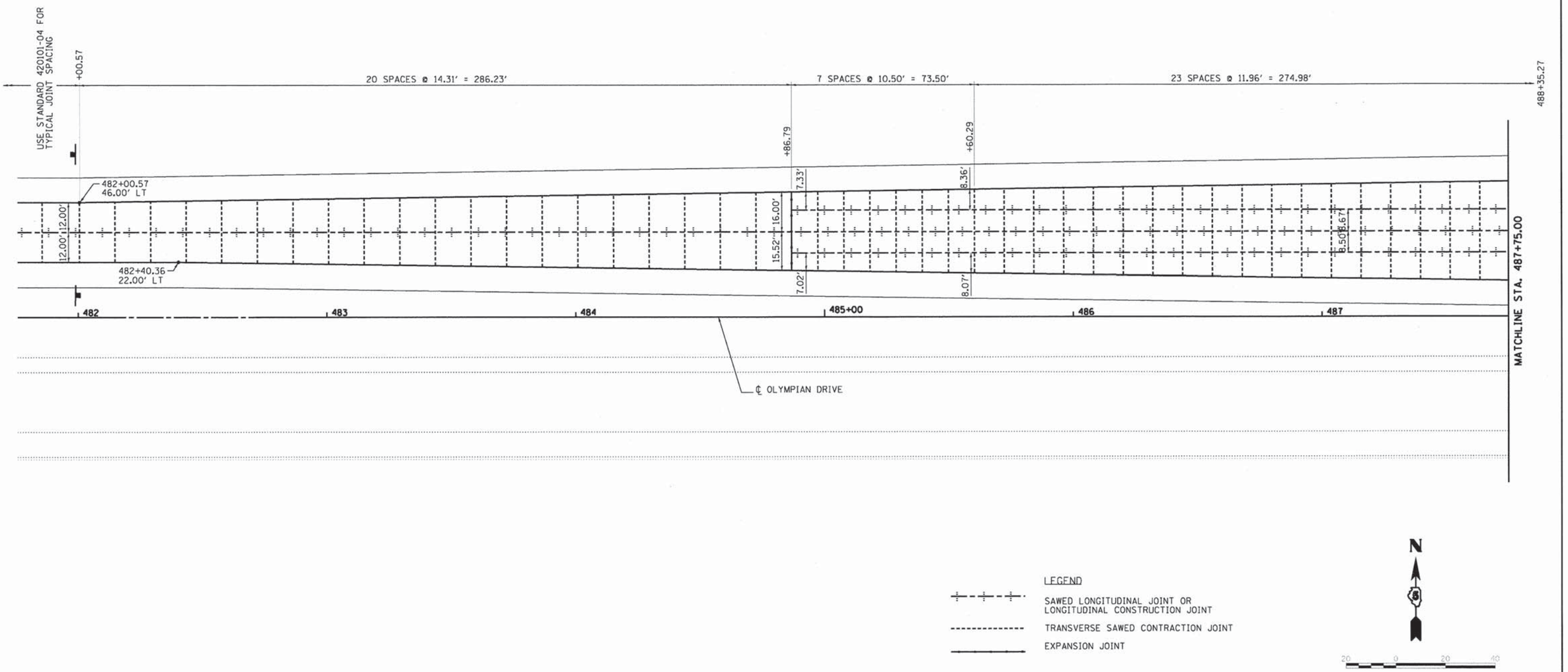
FILE NAME = C-401E_INT.dgn	USER NAME = johns08944	DESIGNED - M.H.	REVISED -
		DRAWN - R.S.J.	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - M.H.	REVISED -
INTERSECTION DTL	PLOT DATE = 01/21/2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LINCOLN AVENUE INTERSECTION
PAVEMENT ELEVATION DETAIL
PROPOSED OLYMPIAN DR. EAST

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	39
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



HANSON

LAYOUT	RSJ	02/15/11
DRAWN	RSJ	02/22/11
REVIEWED	MH	01/20/13

FILE NAME = C:\482-E.INT.dgn	USER NAME = johns00944	DESIGNED - M.H.	REVISED -
		DRAWN - R.S.J.	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - M.H.	REVISED -
INTERSECTION JOINTING DTL	PLOT DATE = 01/21/2014	DATE - 1/21/14	REVISED -

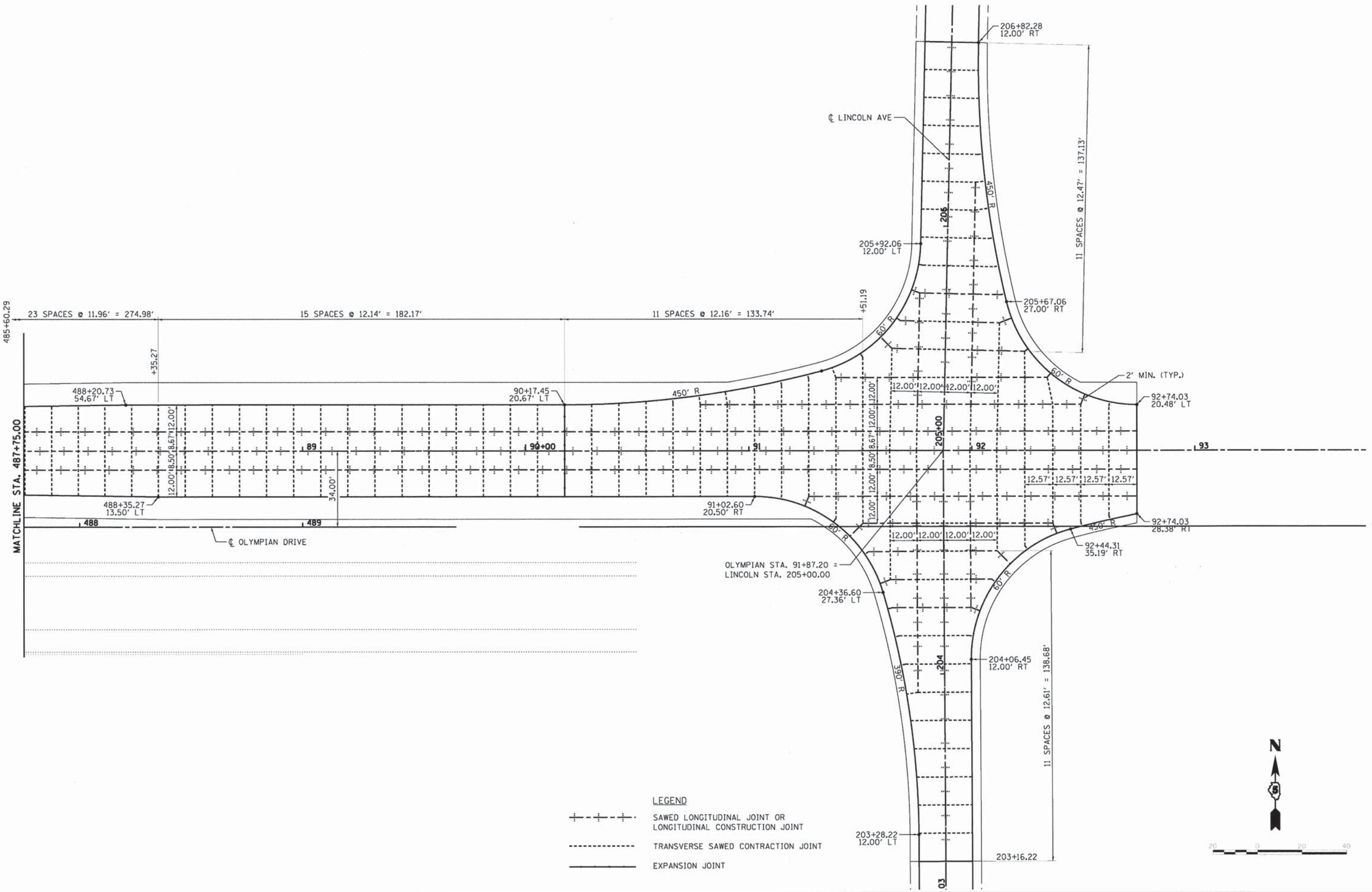
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LINCOLN AVENUE INTERSECTION
PAVEMENT JOINTING DETAIL
PROPOSED OLYMPIAN DR. EAST

SCALE: 1" = 20' | SHEET NO. 1 OF 2 SHEETS | STA. 482+00.57 TO STA. 487+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	40
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

HANSON



LAYOUT	RSJ	02/15/11
DRAWN	RSJ	02/22/11
REVIEWED	MH	01/29/13

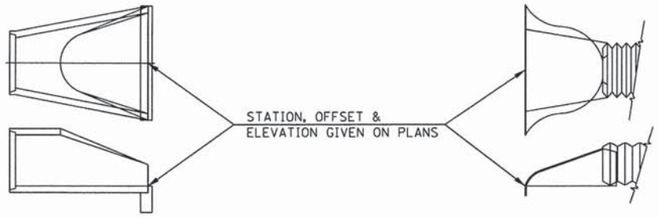
FILE NAME = C:\03-E.INT.dgn	USER NAME = johns08944	DESIGNED - M.H.	REVISED -
		DRAWN - R.S.J.	REVISED -
	PLOT SCALE = 40.0001 ' / in.	CHECKED - M.H.	REVISED -
INTERSECTION JOINTING DTL	PLOT DATE = 01\21\2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LINCOLN AVENUE INTERSECTION
PAVEMENT JOINTING DETAIL
PROPOSED OLYMPIAN DR. EAST

SCALE: 1" = 20' | SHEET NO. 2 OF 2 SHEETS | STA. 487+75.00 TO STA. 92+74.03

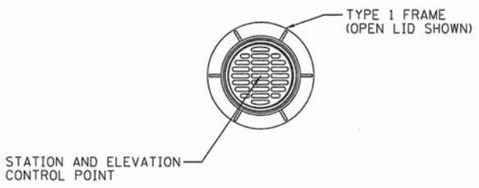
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	41
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

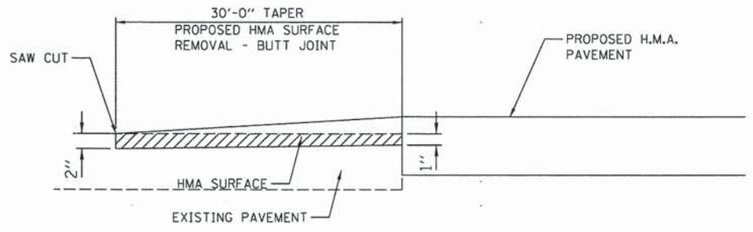


CONCRETE

METAL

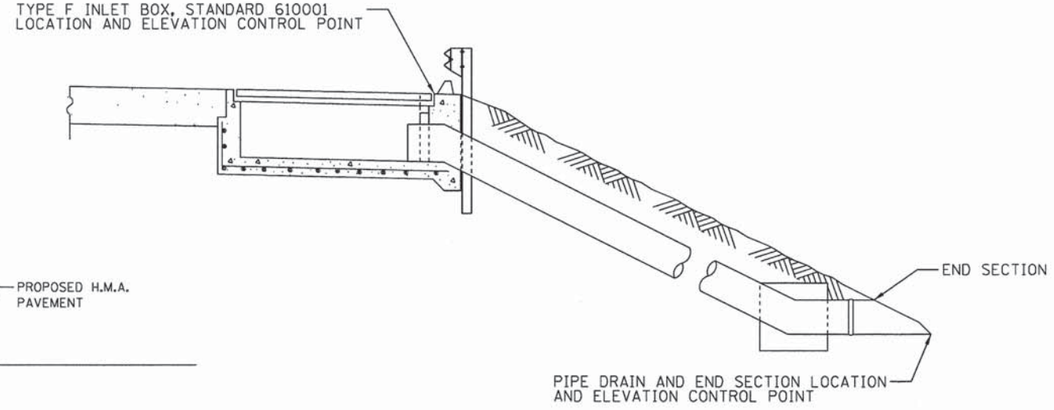
END SECTION ELEVATIONS



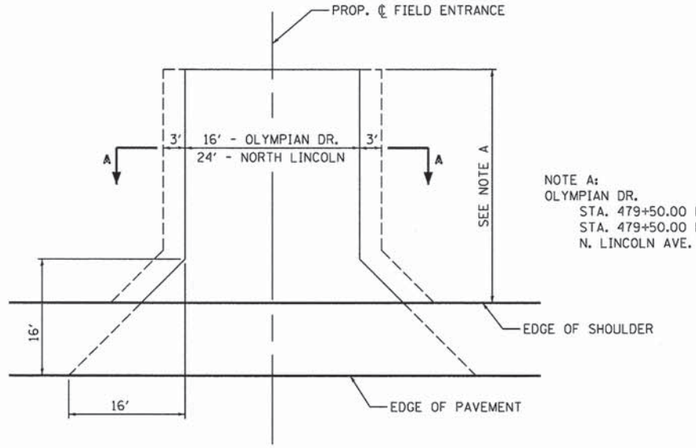


BUTT JOINT AND H.M.A. TAPER

LINCOLN AVENUE
STA. 199+06.74 TO STA. 199+36.74
STA. 209+51.78 TO STA. 209+81.78

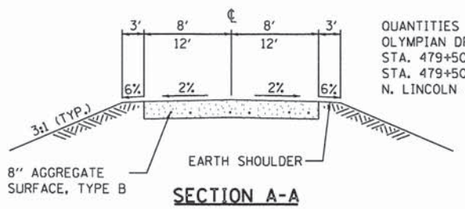


INLET BOX AND PIPE DRAIN CONTROL POINTS



NOTE A:
OLYMPIAN DR.
STA. 479+50.00 LT = 32.4'
STA. 479+50.00 RT = 33.7'
N. LINCOLN AVE. = LT. 16.5'

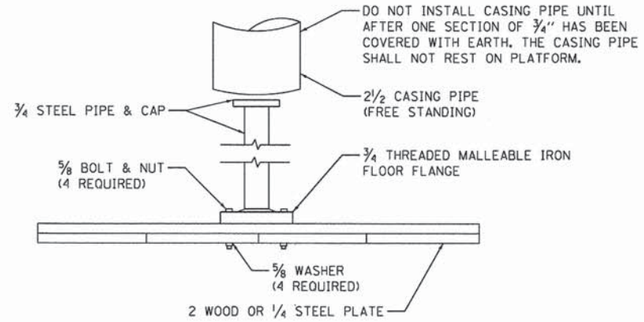
PLAN

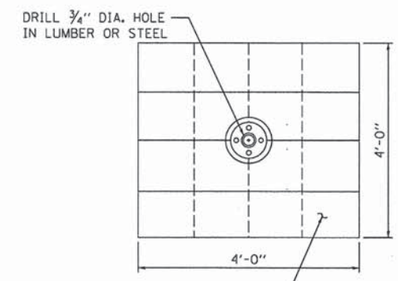


SECTION A-A

QUANTITIES AGGREGATE SURFACE COURSE TYPE B
OLYMPIAN DR.
STA. 479+50.00 LT = 28 TON
STA. 479+50.00 RT = 29 TON
N. LINCOLN AVE. = LT. 28 TON

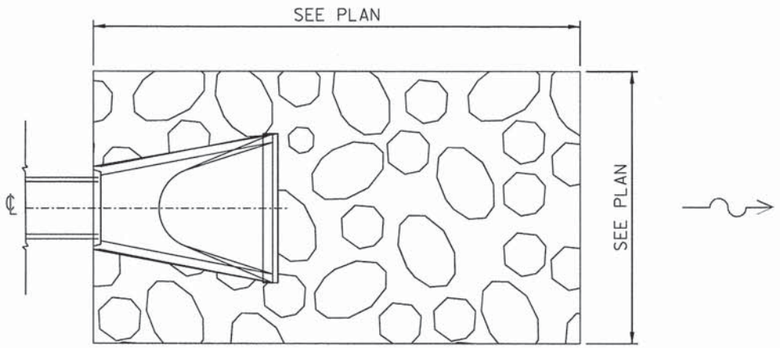
FIELD ENTRANCES

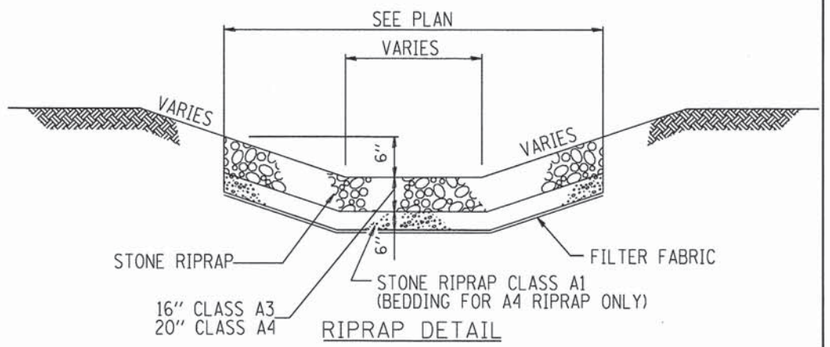




SETTLEMENT PLATFORM

SETTLEMENT PLATFORM SHALL BE IN ACCORDANCE WITH THE APPICABLE PORTIONS OF ARTICLE 204.06 OF THE STANDARD SPECIFICATIONS.





RIPRAP DETAIL

HANSON

LAYOUT	RSJ	02/15/11
DRAWN	RSJ	02/22/11
REVIEWED	MH	01/28/13

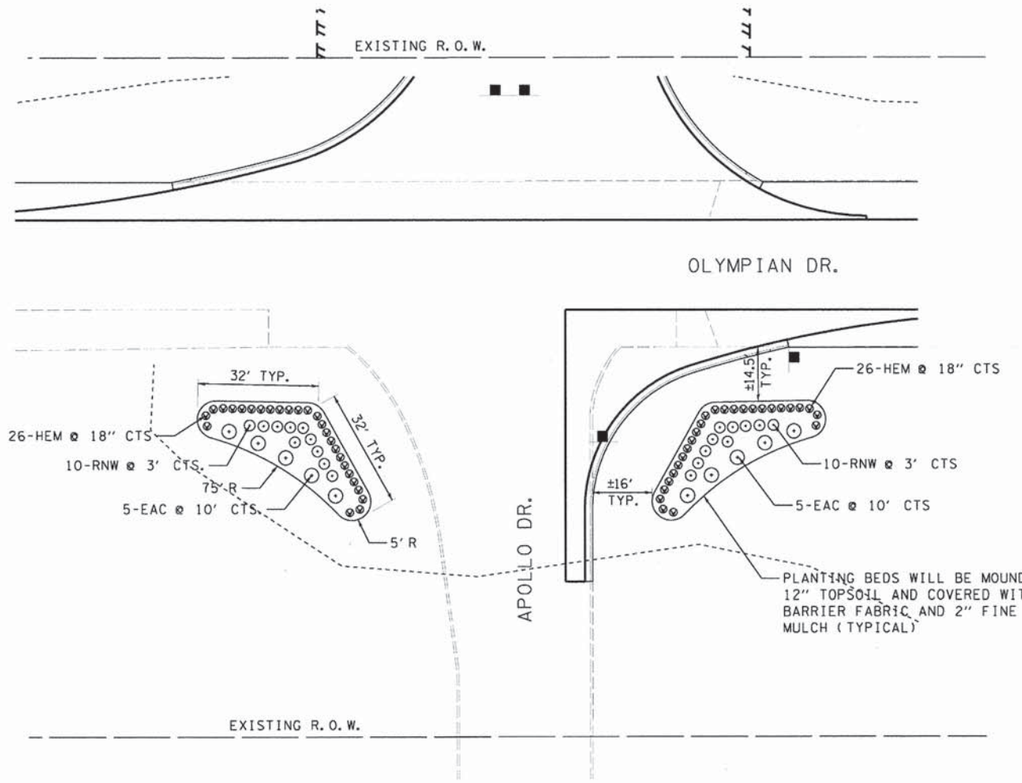
FILE NAME = C-581-E_DTL.dgn	USER NAME = johns80944	DESIGNED - M.H.	REVISED -
		DRAWN - R.S.J.	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED - M.H.	REVISED -
details	PLOT DATE = 02\25\2014	DATE - 1/21/14	REVISED -

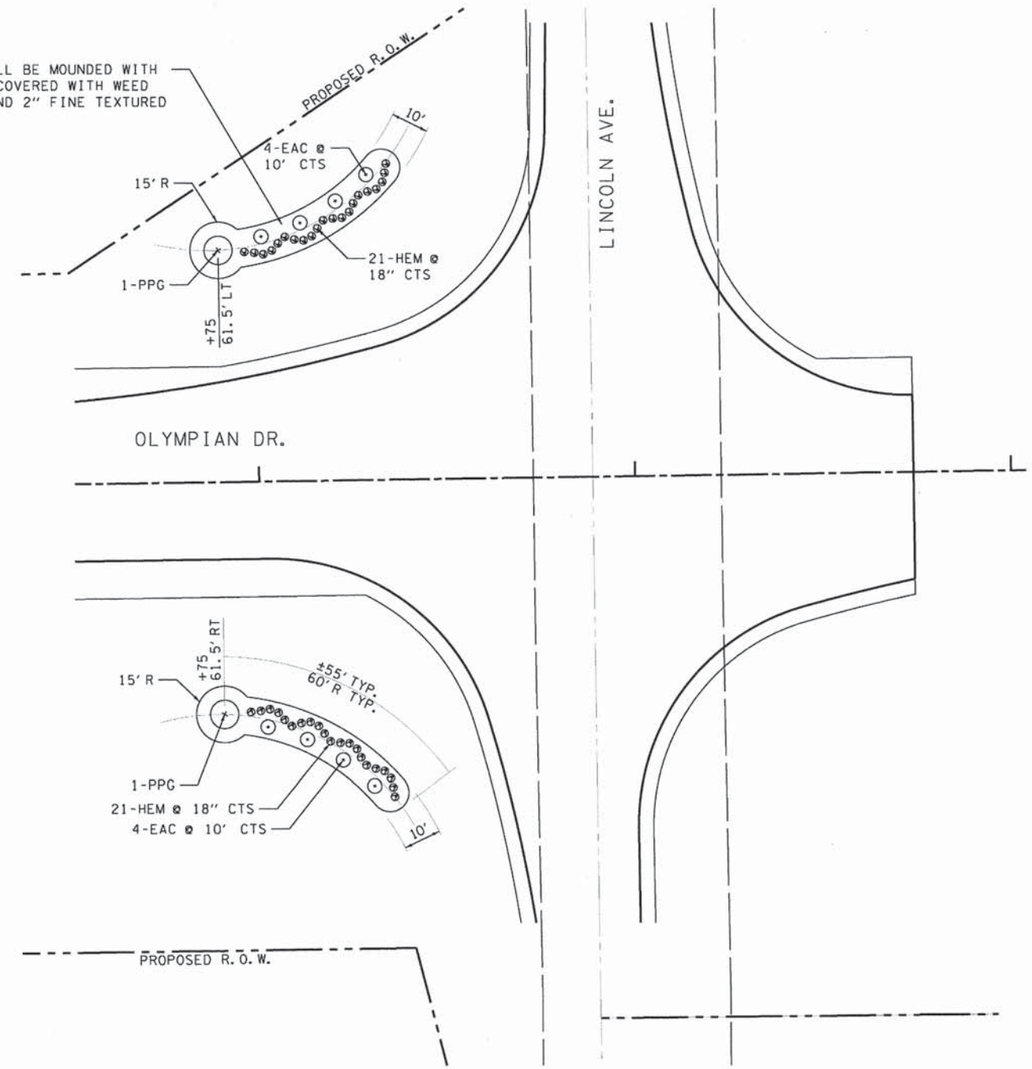
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS
PROPOSED OLYMPIAN DR. EAST

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	42
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			





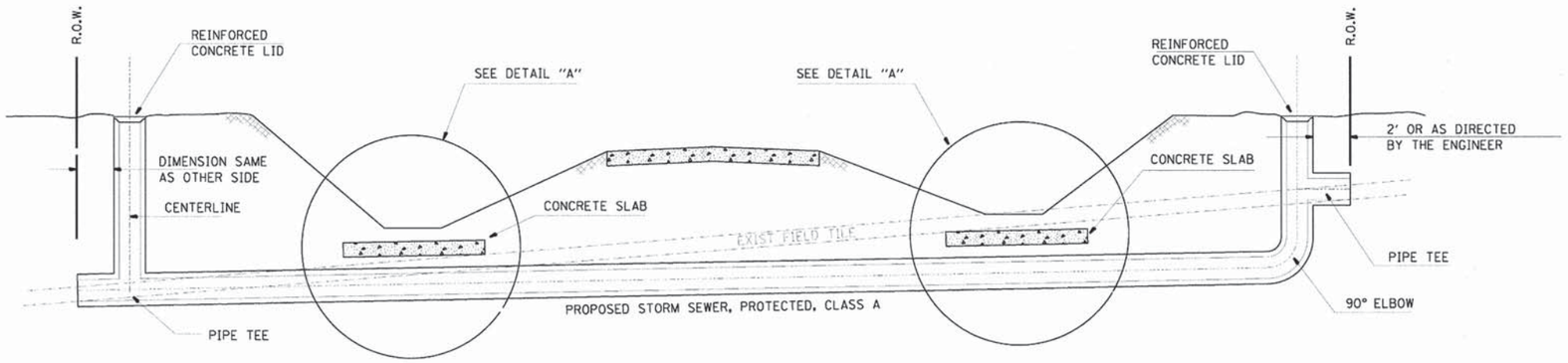
APOLLO DR. / OLYMPIAN DR. PLANTING SCHEDULE				
QUANTITY	DESIGNATION	BITANICAL NAME	COMMON NAME	SIZE
20 EACH	RNW	ROSA 'NEARLY WILD'	NEARLY WILD ROSE	24" HEIGHT
10 EACH	EAC	EUONYMUS ALATA 'COMPACTA'	DWARF BURNING BUSH	24" HEIGHT
0.52 UNIT	HEM	HEMEROCALLIS	DAYLILY	1-GAL WELL DEVELOPED

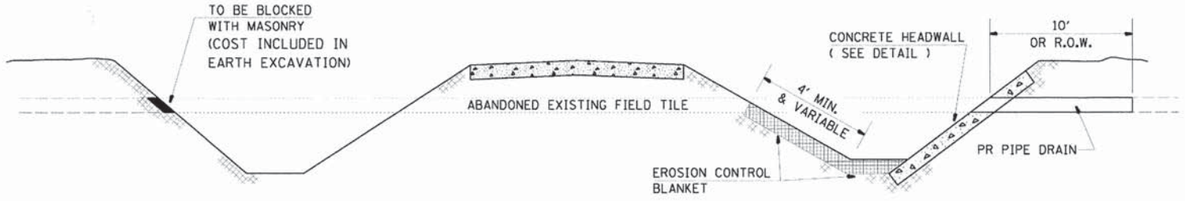
LINCOLN AVE. / OLYMPIAN DR. PLANTING SCHEDULE				
QUANTITY	DESIGNATION	BITANICAL NAME	COMMON NAME	SIZE
2 EACH	PPG	PICEA PUNGENS	COLORADO BLUE SPRUCE	6' TALL B.B.
8 EACH	EAC	EUONYMUS ALATA 'COMPACTA'	DWARF BURNING BUSH	24" HEIGHT
0.42 UNIT	HEM	HEMEROCALLIS	DAYLILY	1-GAL WELL DEVELOPED

LAYOUT	RSJ	02/15/11			
DRAWN	RSJ	02/22/11			
REVISED	MH	01/29/13			

FILE NAME = C:\02-E.DTL.dgn	USER NAME = johns08944	DESIGNED - M.H.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LANDSCAPING AT INTERSECTIONS PROPOSED OLYMPIAN DR. EAST
		DRAWN - R.S.J.	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED - M.H.	REVISED -		SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.
LANDSCAPE DTL	PLOT DATE = 01\21\2014	DATE - 1/21/14	REVISED -		

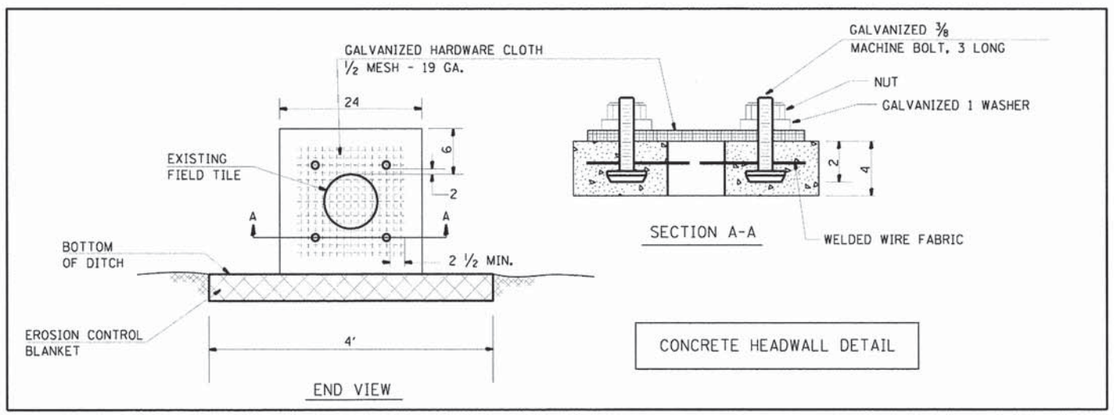
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	43
	10L0007	CONTRACT NO.	91470	
	ILLINOIS FED. AID PROJECT			



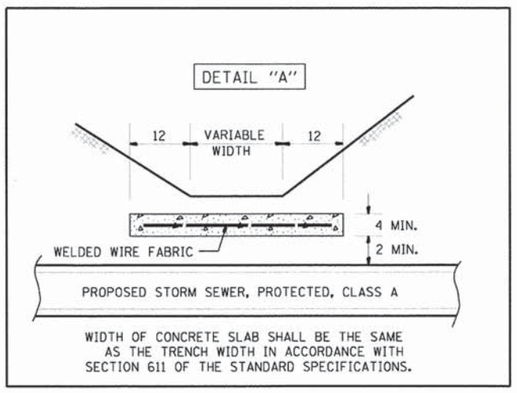


GENERAL NOTES

1. FIELD TILE SHALL BE REPLACED IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS. THE COST PER CONTRACT UNIT PRICE OF ITEMS INCLUDED IN THIS CONTRACT SHALL BE PAID FOR AS STATED IN SECTION 611 OF THE STANDARD SPECIFICATIONS. IF THE CONTRACT UNIT PRICE IS NOT INCLUDED IN THIS CONTRACT, PAYMENT FOR THIS WORK WILL BE IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
2. THE DIAMETER OF THE PROPOSED STORM SEWER SHALL BE EQUAL TO OR GREATER THAN THE EXISTING FIELD TILE.
3. ALL EXISTING FIELD TILE SHALL BE REPLACED WITH STORM SEWER OF THE TYPE REQUIRED FOR BY THE DEPTH OF COVER. THE LINEAL FOOT MEASUREMENT WILL BE ALONG THE CENTRODIAL AXIS AND INCLUDE ALL BENDS, ELBOWS, OR PIPE TEE'S WHICH ARE REQUIRED.
4. THE REINFORCED CONCRETE LID SHALL BE CLASS SI CONCRETE (MISCELLANEOUS) OR PRECAST REINFORCED CONCRETE.
5. ALL HARDWARE, WELDED WIRE FABRIC, RODENT SCREENS AND OTHER REINFORCEMENT AND ANCHORS AS SHOWN OR AS DIRECTED BY THE ENGINEER SHALL BE INCLUDED IN THE COST FOR MISCELLANEOUS CONCRETE.
6. ALL FIELD TILE ENCOUNTERED SHALL BE RECONNECTED AS SHOWN, EVEN TILE THAT IS FILLED WITH SOIL.

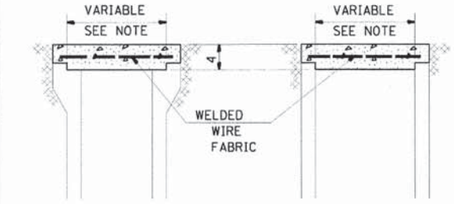


CONCRETE HEADWALL DETAIL



WIDTH OF CONCRETE SLAB SHALL BE THE SAME AS THE TRENCH WIDTH IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS.

REINFORCED CONCRETE LID DETAIL



NOTE : DIMENSIONS WILL VARY TO MATCH NOMINAL SIZE OF PROPOSED STORM SEWER

LAYOUT	RSJ	02/15/11
DRAWN	RSJ	02/22/11
REVIEWED	MH	01/28/13

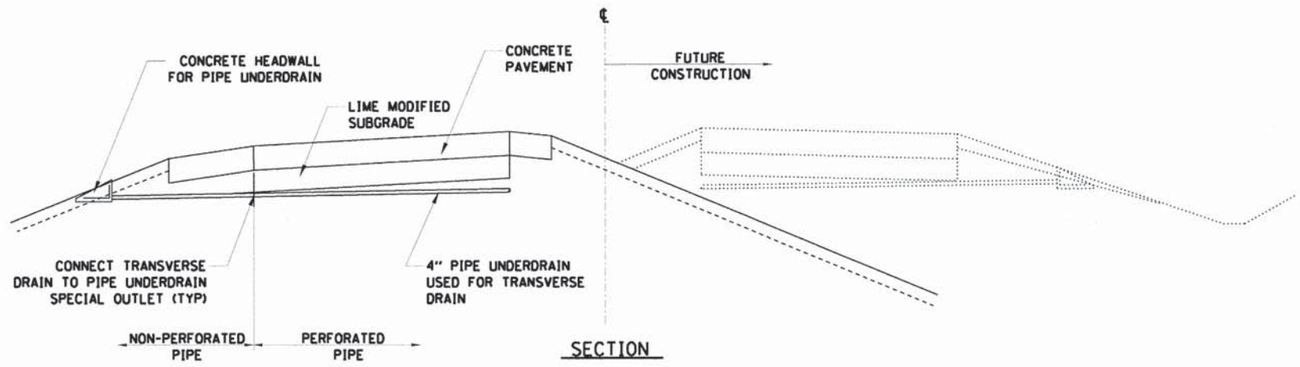
FILE NAME = C:\594 E.DTL.dgn	USER NAME = johns@2844	DESIGNED - M.H.	REVISED -
		DRAWN - R.S.J.	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED - M.H.	REVISED -
details	PLOT DATE = 01/21/2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

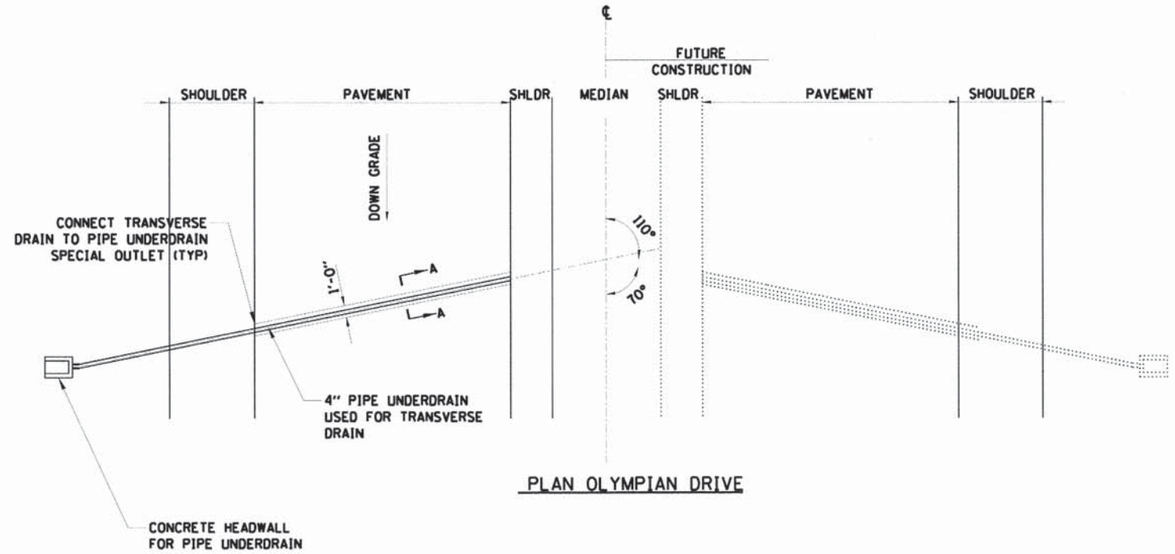
DRAINAGE DETAILS
PROPOSED OLYMPIAN DR. EAST

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. | TO STA.

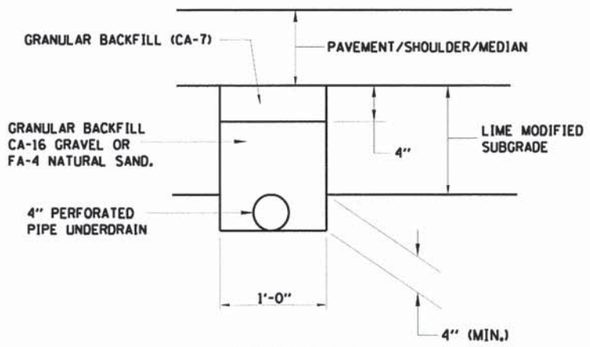
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	44
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



SECTION



PLAN OLYMPIAN DRIVE



SECTION A-A

GENERAL NOTES

TRANSVERSE DRAIN MATERIALS AND CONSTRUCTION SHALL CONFORM TO SECTION 601 OF THE STANDARD SPECIFICATIONS EXCEPT THAT NO FABRIC ENVELOPE IS REQUIRED ON PERFORATED PIPE AND THE GRANULAR BACKFILL GRADATION SHALL BE CA-16 GRAVEL OR FA-4 NATURAL SAND.

ALL MATERIALS WILL NOT BE MEASURED SEPARATELY. BUT WILL BE INCLUDED IN THE COST PER UNIT TRANSVERSE DRAINS.

PERFORATED PIPE SHALL BE CORRUGATED PE WITH A SMOOTH INTERIOR MEETING ARTICLE 1040.04.

LAYOUT	RSJ	02/15/11	
DRAWN	RSJ	02/22/11	
REVIEWED	MH	01/20/12	

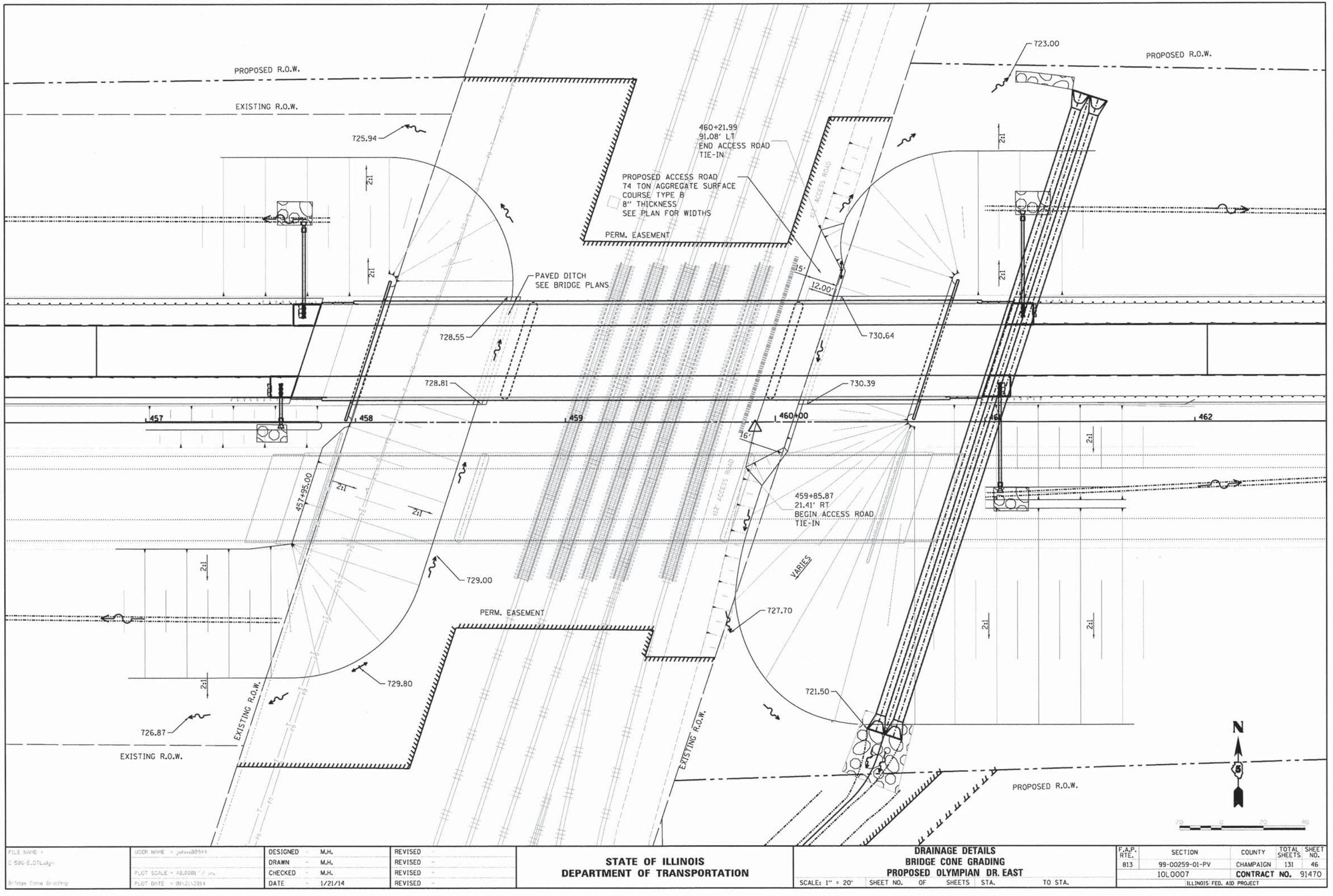
FILE NAME = C:\DGN E.DTL.dgn	USER NAME = johns00944	DESIGNED - M.H.	REVISED -
		DRAWN - R.S.J.	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED - M.H.	REVISED -
details	PLOT DATE = 01\21\2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS
PROPOSED OLYMPIAN DR. EAST

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	45
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



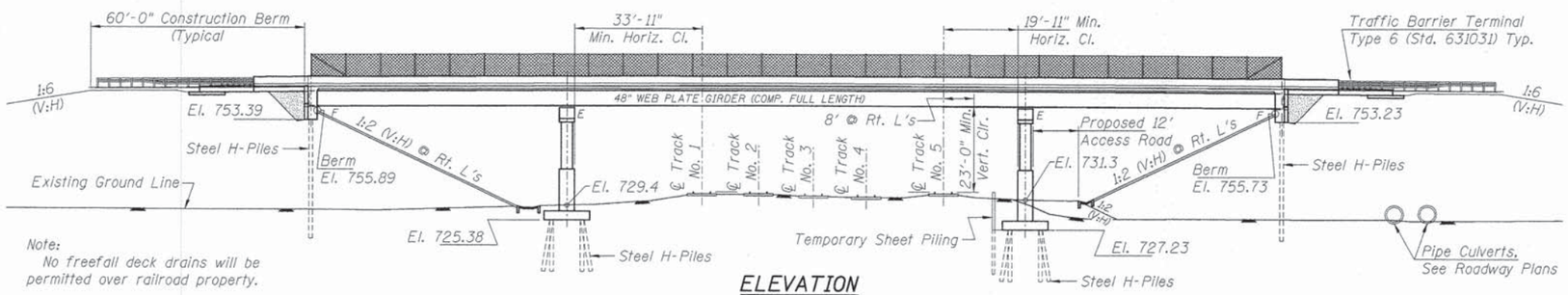
FILE NAME = C:\SIG-E.DTL.dgn	USER NAME = johns80944	DESIGNED - M.H.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE DETAILS BRIDGE CONE GRADING PROPOSED OLYMPIAN DR. EAST
		DRAWN - M.H.	REVISED -		
Bridge Cone Grading	PLOT SCALE = 40.0000 ' / in.	CHECKED - M.H.	REVISED -		SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = 01\21\2014	DATE - 1/21/14	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	46
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

LAYOUT	MH	01/28/13
DRAWN	MH	01/28/13
REVIEWED	MH	01/28/13

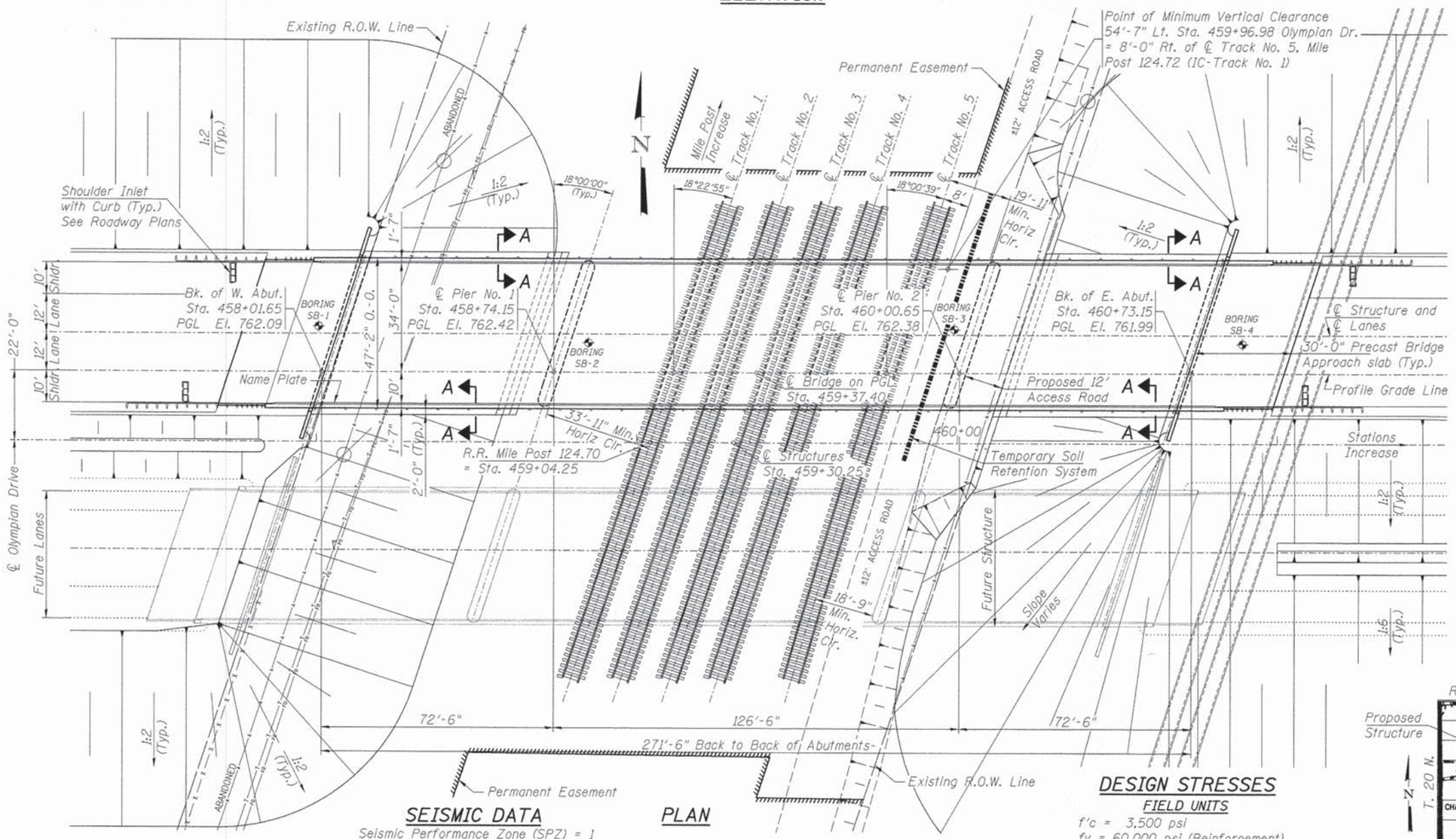
Bench Mark No. 4289: Mag nail in West Face of Utility Pole, South most pole on East Side of IC Tracks. 508.64' Right, Sta. 458+80.01. Elev. 732.05 (Northing 1,271,809.82 Easting 1,015,266.53)

Existing Structure: None



Note: No freefall deck drains will be permitted over railroad property.

ELEVATION



PLAN

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.136
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.236
Soil Site Class = D

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

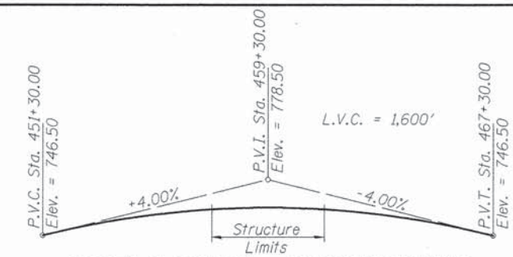
DESIGN STRESSES

FIELD UNITS

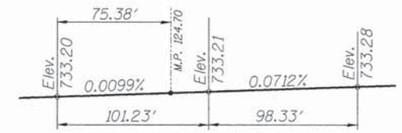
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (AASHTO M270 Grade 50W)

PRECAST UNITS

f'c = 6,000 psi (Precast Bridge Approach Slab)

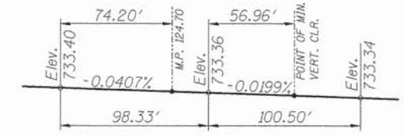


PROFILE GRADE - OLYMPIAN DRIVE



ELEVATIONS - TOP of EAST RAIL IC TRACK NO. 1

(Looking West)



ELEVATIONS - TOP of WEST RAIL IC TRACK NO. 5

(Looking West)

TRACK INFORMATION

I.D.	Ownership and Use	Olympian Dr. ℄ Sta.
Track No. 1	IC Mainline	Sta. 459+04.25
Track No. 2	IC Rail Yard Line	Sta. 459+19.84
Track No. 3	IC Rail Yard Line	Sta. 459+53.03
Track No. 4	IC Rail Yard Line	Sta. 459+49.63
Track No. 5	IC Rail Yard Line	Sta. 459+70.89

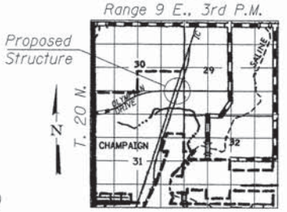
LICENSED STRUCTURAL ENGINEER
MICHAEL W. MENDENHALL
081-006657
STATE OF ILLINOIS

SIGNATURE

01-21-2014
DATE

LIC. EXP. DATE: 11-30-2014

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



LOCATION SKETCH

GENERAL PLAN and ELEVATION
OLYMPIAN DRIVE over IC
F.A.P. RTE. 813
SECTION 99-00259-01-PV
CHAMPAIGN COUNTY
STATION 459+37.40
STRUCTURE NUMBER 010-4556

FILE NAME =	USER NAME = JOHNSØØ944	DESIGNED - JGT	REVISED -
		CHECKED - MNM	REVISED -
	PLOT SCALE =	DRAWN - BWC	REVISED -
	PLOT DATE = Ø1\28\2014	CHECKED - JGT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NUMBER 010-4556
SHEET NO. 01 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	47
		CONTRACT NO. 91470		
		ILLINOIS FED. AID PROJECT		

PLOT DRIVER = IDOT_LargeFormat_Plotter.pltcfg
01\28\2014 PENTABLE = IDOT_Struct.tbl
MODEL NAME = Sheet_P_E
L:\Projects\10L0007\CADD\Struct\Sheet\Final_Plans\01045S6-91470-001-GPnE.dgn

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts in painted areas and ASTM A325 Type 3 in unpainted areas. Bolts $^{7}/_{8}$" ϕ, holes $^{15}/_{16}$" ϕ, unless otherwise noted.

Calculated weight of Structural Steel = 335860 lbs.

All structural steel shall be AASHTO M 270 Grade 50W.

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

Reinforcement bars designated (E) shall be epoxy coated.

If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

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

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. The HLMR Guided Bearing Assemblies shall also be painted. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.

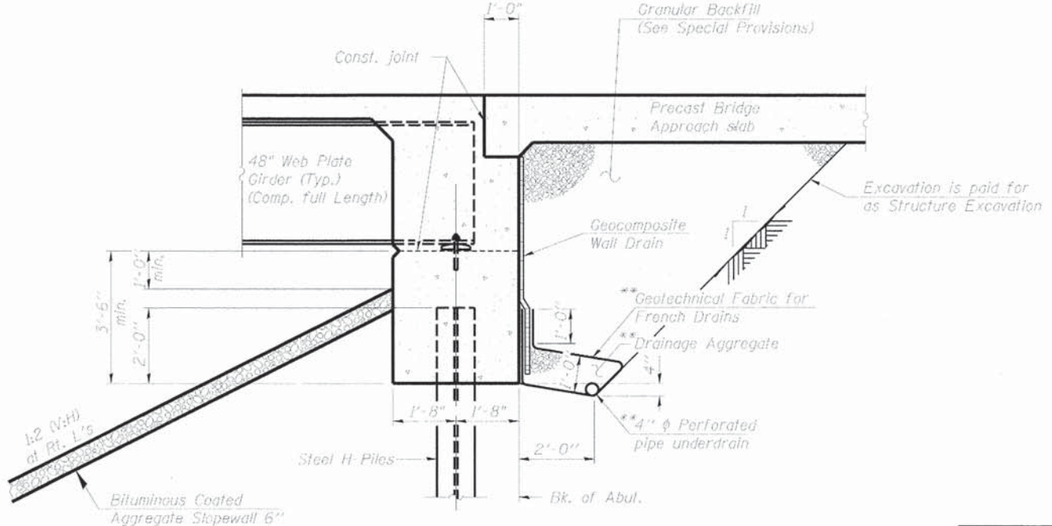
The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

Slipforming of the parapets is not allowed.

INDEX OF SHEETS

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu. Yd.	———	447	447
Concrete Structures	Cu. Yd.	———	319.4	319.4
Concrete Superstructure	Cu. Yd.	449.5	———	449.5
Bridge Deck Grooving	Sq. Yd.	1537	———	1537
Protective Coat	Sq. Yd.	1881	———	1881
Furnishing and Erecting Structural Steel	L. Sum	1	———	1
Stud Shear Connectors	Each	5580	———	5580
Reinforcement Bars, Epoxy Coated	Pound	121840	47840	169680
Slope Wall 4 Inch	Sq. Yd.	———	61	61
Furnishing Steel Piles HP 14x73	Foot	———	2762	2762
Driving Piles	Foot	———	2762	2762
Test Pile Steel HP 14x73	Each	———	4	4
Name Plates	Each	1	———	1
Preformed Joint Strip Seal	Foot	96	———	96
Anchor Bolts, 1"	Each	———	72	72
Geocomposite Wall Drain	Sq. Yd.	———	102	102
Concrete Wearing Surface, 5"	Sq. Yd.	310	———	310
High Load Multi-Rotation Bearings, Guided Expansion, 350K	Each	12	———	12
Granular Backfill for Structures	Cu. Yd.	———	210	210
Temporary Soil Retention System	Sq. Ft.	———	232	232
Pipe Underdrains for Structures 4"	Foot	———	176	176
Bituminous Coated Aggregate Slopewall 6"	Sq. Yd.	———	656	656
Precast Bridge Approach Slab	Sq. Ft.	2680	———	2680
Bridge Fence Railing (Special)	Foot	534	———	534



SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. ⊄ Rt. L's)

**Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

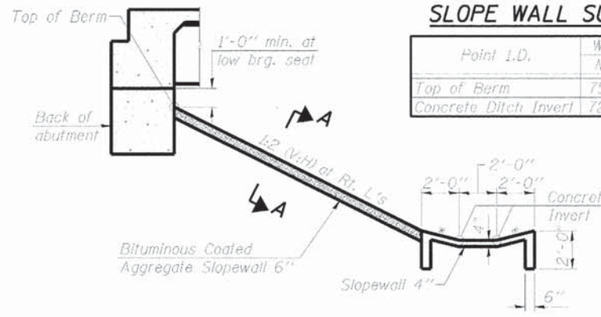
ILLINOIS CENTRAL RAILROAD COMPANY
BUILT 20__ BY
CITY OF URBANA
SEC. 99-00259-01-PV
F.A.P. RT. 813 STA. 459+37.40
STR. NO. 010-4556 LOADING HL93

NAME PLATE

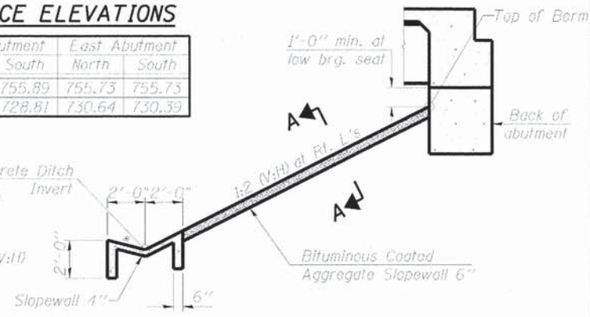
See Std. 515001

SLOPE WALL SURFACE ELEVATIONS

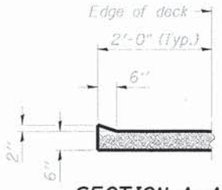
Point I.D.	West Abutment		East Abutment	
	North	South	North	South
Top of Berm	755.89	755.89	755.73	755.73
Concrete Ditch Invert	728.55	728.81	730.64	730.39



SECTION THRU BITUMINOUS COATED AGGREGATE SLOPEWALL WEST ABUTMENT



SECTION THRU BITUMINOUS COATED AGGREGATE SLOPEWALL EAST ABUTMENT



SECTION A-A

Note:
Slopewall 4" shall be reinforced with welded wire fabric, 6in. x 6in. W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

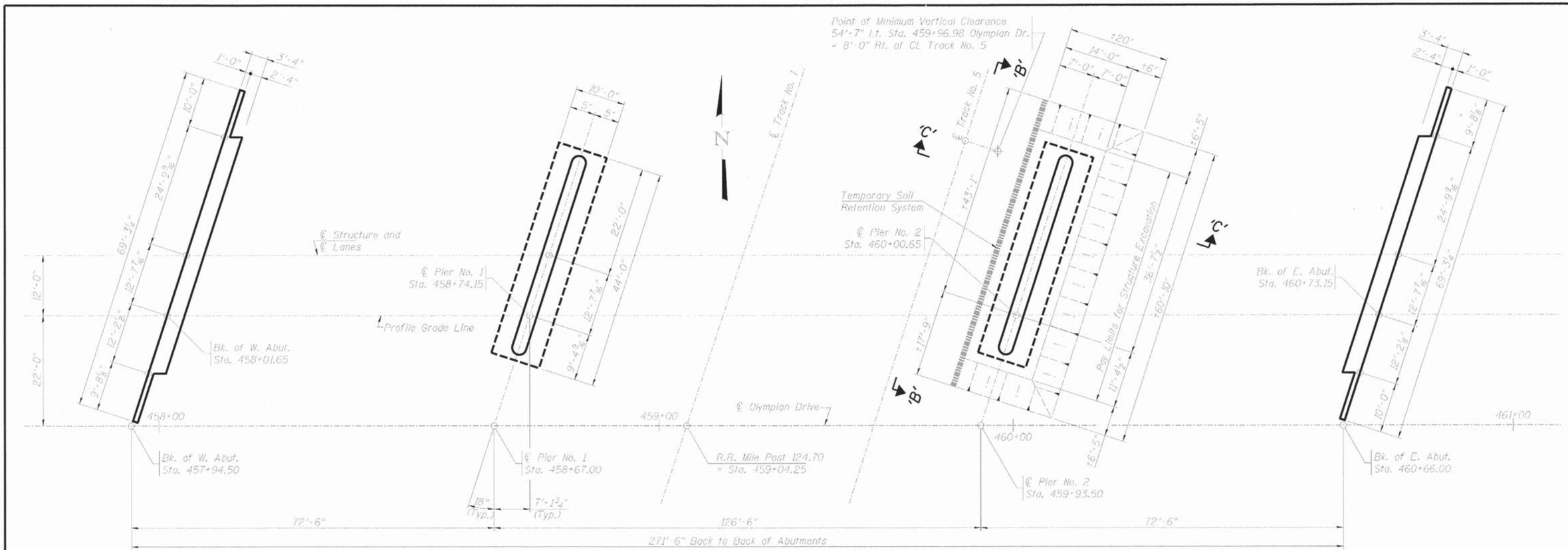
PLOT DRIVER = IDOT_pdf_150dpi.pltcfg
01\21\2014 PENTABLE = IDOT_Struct.TBL
01\21\2014 PAGE SETUP = Default
R:\Opies\16.0007\CADD\Struct\Sheet\Final_Plans\0104556-91470-002-GEN0.dgn

FILE NAME =	USER NAME = JOHNS0094	DESIGNED - JGT	REVISED -
		CHECKED - MNM	REVISED -
	PLOT SCALE =	DRAWN - BWC	REVISED -
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -

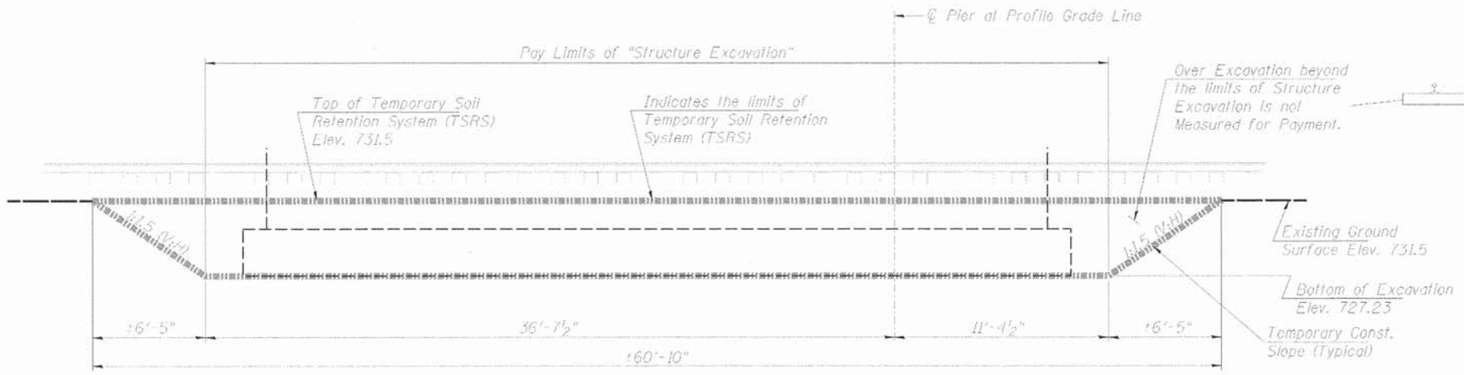
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NUMBER 010-4556
SHEET NO. 02 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	48
		CONTRACT NO. 91470		
		ILLINOIS FED. AID PROJECT		

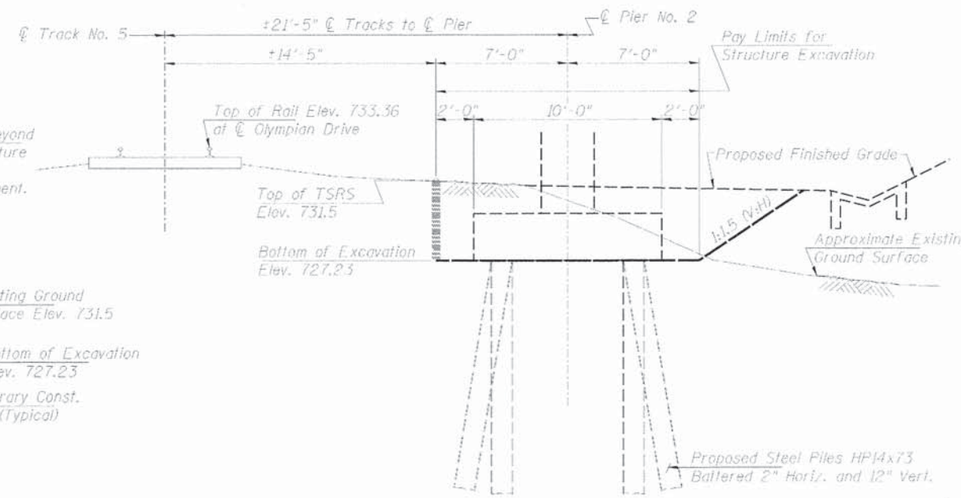


SUBSTRUCTURE LAYOUT



TEMPORARY SOIL RETENTION SYSTEM VIEW 'B'-'B'

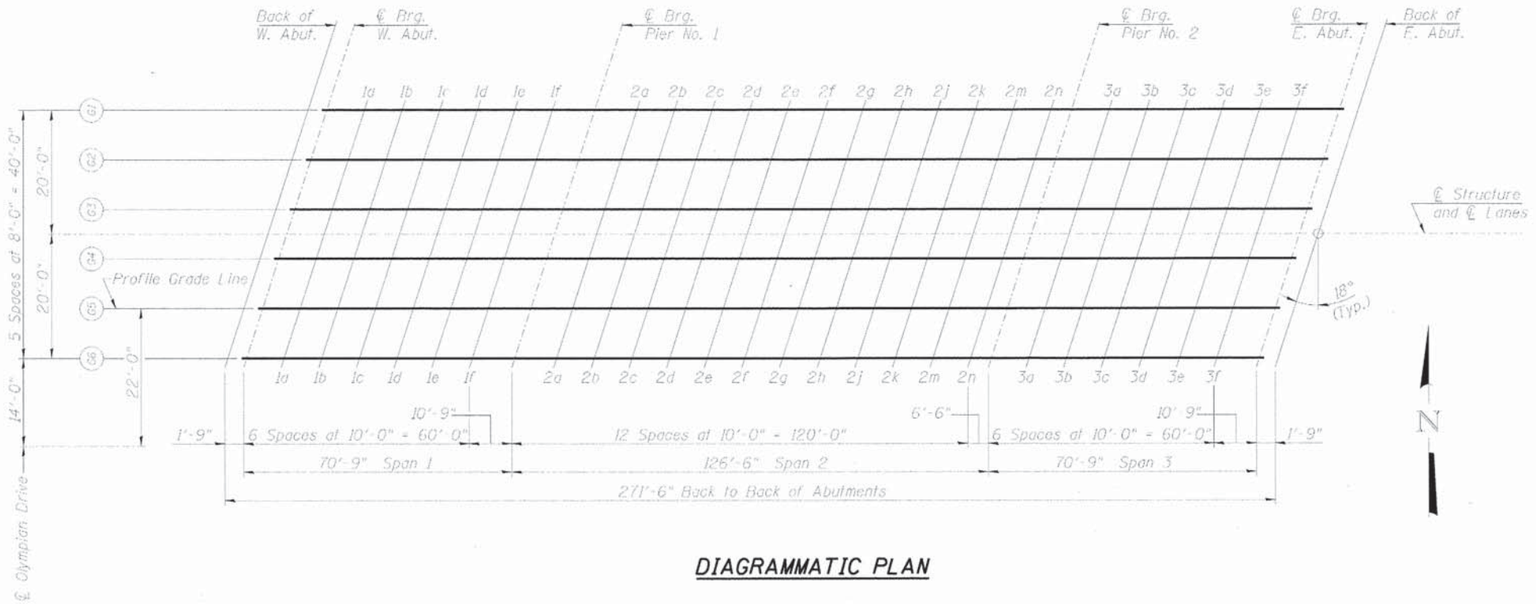
The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer. Approval shall be contingent upon acceptance of Railroad. Shoring shall be designed according to AREMA with railroad surcharge loading from Coopers E-90 train load.



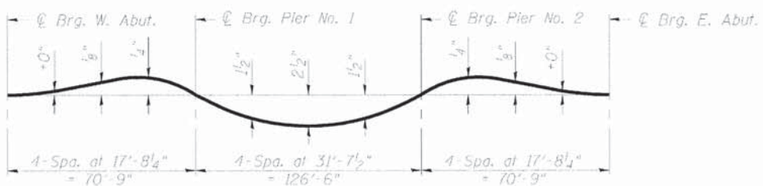
TEMPORARY SOIL RETENTION SYSTEM - SECTION 'C'-'C'

FILE NAME =	USER NAME = JOHNS0944	DESIGNED - JGT	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**SUBSTRUCTURE LAYOUT and TEMPORARY SHEET PILING STRUCTURE NUMBER 010-4556**	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - MNM	REVISED -			813	99-00259-01-PV	CHAMPAIGN	131	49
	PLOT SCALE =	DRAWN - Rod	REVISED -						CONTRACT NO. 91470	
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -		SHEET NO. 03 OF 32 SHEETS		ILLINOIS FED. AID PROJECT			

PLOT DRIVER = IDOT_pdf_150dpi.pltcfg
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
I:\Opus\10.0007\CAD\Struct\Sheet\Final_Plans\010456-91470-003-SUBS.dgn



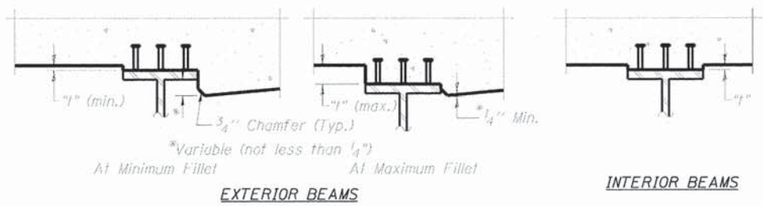
DIAGRAMMATIC PLAN



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on Sheets 5 & 6 of 32.



EXTERIOR BEAMS

INTERIOR BEAMS

To determine "I": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheets 5 & 6 of 32, minus 8" slab thickness, equals the fillet heights "I" above top flange of beams.

PLOT DRIVER = IDOT_pdf_150dpi.pltcfg
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
Z:\Opies\10L0007\CAD\Struct\Sheet\Final_Plans\0104556-91470-004-TSE1.dgn

FILE NAME =	USER NAME = JOHNS0944	DESIGNED - JGT	REVISED -
		CHECKED - MNM	REVISED -
	PLOT SCALE =	DRAWN - Rod	REVISED -
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS (Sheet 1 OF 3)
STRUCTURE NUMBER 010-4556
SHEET NO. 04 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	50
		CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

HANSON
PROFESSIONAL SERVICES
DESIGN FIRM LICENSE #184-001064

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theo. Grade Elevations Adj. For D.L. Deflection
Bk. W. Abut.	458+12.05	-32.00	761.99	761.99
℄ Brg. W. Abut.	458+13.80	-32.00	762.00	762.00
1a	458+23.80	-32.00	762.06	762.06
1b	458+33.80	-32.00	762.11	762.11
1c	458+43.80	-32.00	762.15	762.15
1d	458+53.80	-32.00	762.20	762.18
1e	458+63.80	-32.00	762.23	762.21
1f	458+73.80	-32.00	762.26	762.25
℄ Brg. Pier No. 1	458+84.55	-32.00	762.29	762.29
2a	458+94.55	-32.00	762.31	762.35
2b	459+04.55	-32.00	762.32	762.41
2c	459+14.55	-32.00	762.33	762.46
2d	459+24.55	-32.00	762.34	762.49
2e	459+34.55	-32.00	762.34	762.52
2f	459+44.55	-32.00	762.34	762.54
2g	459+54.55	-32.00	762.33	762.52
2h	459+64.55	-32.00	762.31	762.48
2j	459+74.55	-32.00	762.29	762.43
2k	459+84.55	-32.00	762.27	762.37
2m	459+94.55	-32.00	762.24	762.30
2n	460+01.55	-32.00	762.20	762.23
℄ Brg. Pier No. 2	460+11.05	-32.00	762.18	762.18
3a	460+21.05	-32.00	762.13	762.12
3b	460+31.05	-32.00	762.09	762.07
3c	460+41.05	-32.00	762.03	762.02
3d	460+51.05	-32.00	761.97	761.97
3e	460+61.05	-32.00	761.91	761.91
3f	460+71.05	-32.00	761.84	761.84
℄ Brg. E. Abut.	460+81.80	-32.00	761.76	761.76
Bk. E. Abut.	460+83.55	-32.00	761.75	761.75

GIRDER 2 - CROWN BREAK POINT

Location	Station	Offset	Theoretical Grade Elevations	Theo. Grade Elevations Adj. For D.L. Deflection
Bk. W. Abut.	458+09.45	-24.00	762.14	762.14
℄ Brg. W. Abut.	458+11.20	-24.00	762.15	762.15
1a	458+21.20	-24.00	762.20	762.20
1b	458+31.20	-24.00	762.26	762.25
1c	458+41.20	-24.00	762.30	762.30
1d	458+51.20	-24.00	762.35	762.33
1e	458+61.20	-24.00	762.38	762.36
1f	458+71.20	-24.00	762.41	762.40
℄ Brg. Pier No. 1	458+81.95	-24.00	762.44	762.44
2a	458+91.95	-24.00	762.46	762.51
2b	459+01.95	-24.00	762.48	762.56
2c	459+11.95	-24.00	762.49	762.61
2d	459+21.95	-24.00	762.50	762.65
2e	459+31.95	-24.00	762.50	762.68
2f	459+41.95	-24.00	762.50	762.70
2g	459+51.95	-24.00	762.49	762.68
2h	459+61.95	-24.00	762.47	762.64
2j	459+71.95	-24.00	762.46	762.60
2k	459+81.95	-24.00	762.43	762.54
2m	459+91.95	-24.00	762.40	762.47
2n	460+01.95	-24.00	762.37	762.40
℄ Brg. Pier No. 2	460+08.45	-24.00	762.35	762.35
3a	460+18.45	-24.00	762.30	762.29
3b	460+28.45	-24.00	762.26	762.24
3c	460+38.45	-24.00	762.21	762.19
3d	460+48.45	-24.00	762.15	762.14
3e	460+58.45	-24.00	762.09	762.09
3f	460+68.45	-24.00	762.02	762.02
℄ Brg. E. Abut.	460+79.20	-24.00	761.94	761.94
Bk. E. Abut.	460+80.95	-24.00	761.93	761.93

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theo. Grade Elevations Adj. For D.L. Deflection
Bk. W. Abut.	458+06.85	-16.00	762.24	762.24
℄ Brg. W. Abut.	458+08.60	-16.00	762.25	762.25
1a	458+18.60	-16.00	762.31	762.31
1b	458+28.60	-16.00	762.36	762.36
1c	458+38.60	-16.00	762.41	762.40
1d	458+48.60	-16.00	762.45	762.44
1e	458+58.60	-16.00	762.49	762.48
1f	458+68.60	-16.00	762.53	762.52
℄ Brg. Pier No. 1	458+79.35	-16.00	762.56	762.56
2a	458+89.35	-16.00	762.58	762.62
2b	458+99.35	-16.00	762.60	762.68
2c	459+09.35	-16.00	762.61	762.73
2d	459+19.35	-16.00	762.62	762.77
2e	459+29.35	-16.00	762.62	762.80
2f	459+39.35	-16.00	762.62	762.82
2g	459+49.35	-16.00	762.61	762.80
2h	459+59.35	-16.00	762.60	762.77
2j	459+69.35	-16.00	762.58	762.72
2k	459+79.35	-16.00	762.56	762.67
2m	459+89.35	-16.00	762.53	762.60
2n	459+99.35	-16.00	762.50	762.53
℄ Brg. Pier No. 2	460+05.85	-16.00	762.48	762.48
3a	460+15.85	-16.00	762.44	762.43
3b	460+25.85	-16.00	762.39	762.37
3c	460+35.85	-16.00	762.34	762.33
3d	460+45.85	-16.00	762.28	762.28
3e	460+55.85	-16.00	762.22	762.22
3f	460+65.85	-16.00	762.16	762.16
℄ Brg. E. Abut.	460+76.60	-16.00	762.08	762.08
Bk. E. Abut.	460+78.35	-16.00	762.07	762.07

℄ BRIDGE and CROWN LINE

Location	Station	Offset	Theoretical Grade Elevations	Theo. Grade Elevations Adj. For D.L. Deflection
Bk. W. Abut.	458+05.55	-12.00	762.29	762.29
℄ Brg. W. Abut.	458+07.30	-12.00	762.30	762.30
1a	458+17.30	-12.00	762.36	762.36
1b	458+27.30	-12.00	762.42	762.41
1c	458+37.30	-12.00	762.47	762.46
1d	458+47.30	-12.00	762.51	762.50
1e	458+57.30	-12.00	762.55	762.53
1f	458+67.30	-12.00	762.58	762.57
℄ Brg. Pier No. 1	458+78.05	-12.00	762.61	762.61
2a	458+88.05	-12.00	762.64	762.68
2b	458+98.05	-12.00	762.65	762.74
2c	459+08.05	-12.00	762.67	762.79
2d	459+18.05	-12.00	762.68	762.83
2e	459+28.05	-12.00	762.68	762.86
2f	459+38.05	-12.00	762.68	762.88
2g	459+48.05	-12.00	762.67	762.87
2h	459+58.05	-12.00	762.66	762.83
2j	459+68.05	-12.00	762.64	762.79
2k	459+78.05	-12.00	762.62	762.73
2m	459+88.05	-12.00	762.60	762.66
2n	459+98.05	-12.00	762.56	762.59
℄ Brg. Pier No. 2	460+04.55	-12.00	762.54	762.54
3a	460+14.55	-12.00	762.50	762.49
3b	460+24.55	-12.00	762.46	762.44
3c	460+34.55	-12.00	762.41	762.39
3d	460+44.55	-12.00	762.35	762.34
3e	460+54.55	-12.00	762.29	762.29
3f	460+64.55	-12.00	762.23	762.23
℄ Brg. E. Abut.	460+75.30	-12.00	762.15	762.15
Bk. E. Abut.	460+77.05	-12.00	762.14	762.14

Note: Offsets are from P.G.L.

PLOT DRIVER = IDOT_pdf_150dpi.pltcfg
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
P:\Opies\10.0007\CAD\Struct\Sheet\Final_Plans\0104556-91470-005-TSE2.dgn

FILE NAME =	USER NAME = JOHNS0944	DESIGNED - JGT	REVISED -
		CHECKED - MNM	REVISED -
	PLOT SCALE =	DRAWN - Rod	REVISED -
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS (Sheet 2 of 3)
STRUCTURE NUMBER 010-4556
SHEET NO. 05 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	51
		CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theo. Grade Elevations Adj. For D.L. Deflection
Bk. W. Abut.	458+04.25	-8.00	762.23	762.23
℄ Brg. W. Abut.	458+06.00	-8.00	762.24	762.24
1a	458+16.00	-8.00	762.30	762.30
1b	458+26.00	-8.00	762.35	762.35
1c	458+36.00	-8.00	762.40	762.39
1d	458+46.00	-8.00	762.44	762.43
1e	458+56.00	-8.00	762.48	762.47
1f	458+66.00	-8.00	762.52	762.51
℄ Brg. Pier No. 1	458+76.75	-8.00	762.55	762.55
2a	458+86.75	-8.00	762.57	762.61
2b	458+96.75	-8.00	762.59	762.67
2c	459+06.75	-8.00	762.61	762.73
2d	459+16.75	-8.00	762.62	762.77
2e	459+26.75	-8.00	762.62	762.80
2f	459+36.75	-8.00	762.62	762.82
2g	459+46.75	-8.00	762.61	762.81
2h	459+56.75	-8.00	762.60	762.77
2j	459+66.75	-8.00	762.59	762.73
2k	459+76.75	-8.00	762.57	762.67
2m	459+86.75	-8.00	762.54	762.61
2n	459+96.75	-8.00	762.51	762.54
℄ Brg. Pier No. 2	460+03.25	-8.00	762.49	762.49
3a	460+13.25	-8.00	762.45	762.44
3b	460+23.25	-8.00	762.40	762.39
3c	460+33.25	-8.00	762.35	762.34
3d	460+43.25	-8.00	762.30	762.29
3e	460+53.25	-8.00	762.24	762.24
3f	460+63.25	-8.00	762.18	762.18
℄ Brg. E. Abut.	460+74.00	-8.00	762.10	762.10
Bk. E. Abut.	460+75.75	-8.00	762.09	762.09

GIRDER 5 - CROWN BREAK POINT and P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theo. Grade Elevations Adj. For D.L. Deflection
Bk. W. Abut.	458+01.65	0.00	762.09	762.09
℄ Brg. W. Abut.	458+03.40	0.00	762.10	762.10
1a	458+13.40	0.00	762.16	762.16
1b	458+23.40	0.00	762.22	762.21
1c	458+33.40	0.00	762.27	762.26
1d	458+43.40	0.00	762.31	762.30
1e	458+53.40	0.00	762.35	762.34
1f	458+63.40	0.00	762.39	762.38
℄ Brg. Pier No. 1	458+74.15	0.00	762.42	762.42
2a	458+84.15	0.00	762.45	762.49
2b	458+94.15	0.00	762.47	762.55
2c	459+04.15	0.00	762.48	762.61
2d	459+14.15	0.00	762.49	762.64
2e	459+24.15	0.00	762.50	762.68
2f	459+34.15	0.00	762.50	762.70
2g	459+44.15	0.00	762.50	762.69
2h	459+54.15	0.00	762.49	762.65
2j	459+64.15	0.00	762.47	762.61
2k	459+74.15	0.00	762.45	762.56
2m	459+84.15	0.00	762.43	762.49
2n	459+94.15	0.00	762.40	762.42
℄ Brg. Pier No. 2	460+00.65	0.00	762.38	762.38
3a	460+10.65	0.00	762.34	762.33
3b	460+20.65	0.00	762.30	762.28
3c	460+30.65	0.00	762.25	762.23
3d	460+40.65	0.00	762.19	762.19
3e	460+50.65	0.00	762.14	762.13
3f	460+60.65	0.00	762.07	762.07
℄ Brg. E. Abut.	460+71.40	0.00	762.00	762.00
Bk. E. Abut.	460+73.15	0.00	761.99	761.99

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theo. Grade Elevations Adj. For D.L. Deflection
Bk. W. Abut.	457+99.05	8.00	761.91	761.91
℄ Brg. W. Abut.	458+00.80	8.00	761.92	761.92
1a	458+10.80	8.00	761.99	761.98
1b	458+20.80	8.00	762.04	762.04
1c	458+30.80	8.00	762.09	762.09
1d	458+40.80	8.00	762.14	762.13
1e	458+50.80	8.00	762.18	762.17
1f	458+60.80	8.00	762.22	762.21
℄ Brg. Pier No. 1	458+71.55	8.00	762.26	762.26
2a	458+81.55	8.00	762.28	762.32
2b	458+91.55	8.00	762.30	762.38
2c	459+01.55	8.00	762.32	762.44
2d	459+11.55	8.00	762.33	762.48
2e	459+21.55	8.00	762.34	762.52
2f	459+31.55	8.00	762.34	762.54
2g	459+41.55	8.00	762.34	762.53
2h	459+51.55	8.00	762.33	762.50
2j	459+61.55	8.00	762.32	762.46
2k	459+71.55	8.00	762.30	762.41
2m	459+81.55	8.00	762.27	762.34
2n	459+91.55	8.00	762.25	762.27
℄ Brg. Pier No. 2	459+98.05	8.00	762.22	762.22
3a	460+08.05	8.00	762.19	762.18
3b	460+18.05	8.00	762.15	762.13
3c	460+28.05	8.00	762.10	762.09
3d	460+38.05	8.00	762.05	762.04
3e	460+48.05	8.00	761.99	761.99
3f	460+58.05	8.00	761.93	761.93
℄ Brg. E. Abut.	460+68.80	8.00	761.86	761.86
Bk. E. Abut.	460+70.55	8.00	761.85	761.85

Note: Offsets are from P.G.L.

PLOT DRIVER = IDOT_pdf_150dpi.pltcfg
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
R:\Objects\10.0007\CADD\Struct\Sheet\Final_Plans\0104556-91470-006-TSE3.dgn

FILE NAME =	USER NAME = JOHNS00944	DESIGNED - JGT	REVISED -
		CHECKED - MNM	REVISED -
	PLOT SCALE =	DRAWN - Rod	REVISED -
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK ELEVATIONS (Sheet 3 of 3)
STRUCTURE NUMBER 010-4556
SHEET NO. 06 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	52
		CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

NORTH GUTTER LINE

Location	Station	Offset	Theoretical Grade Elevations
Free End of West Appr.	457+83.75	-34.00	761.77
'A'	457+93.75	-34.00	761.84
'B'	458+03.75	-34.00	761.90
Abut. End of West Appr.	458+13.75	-34.00	761.96

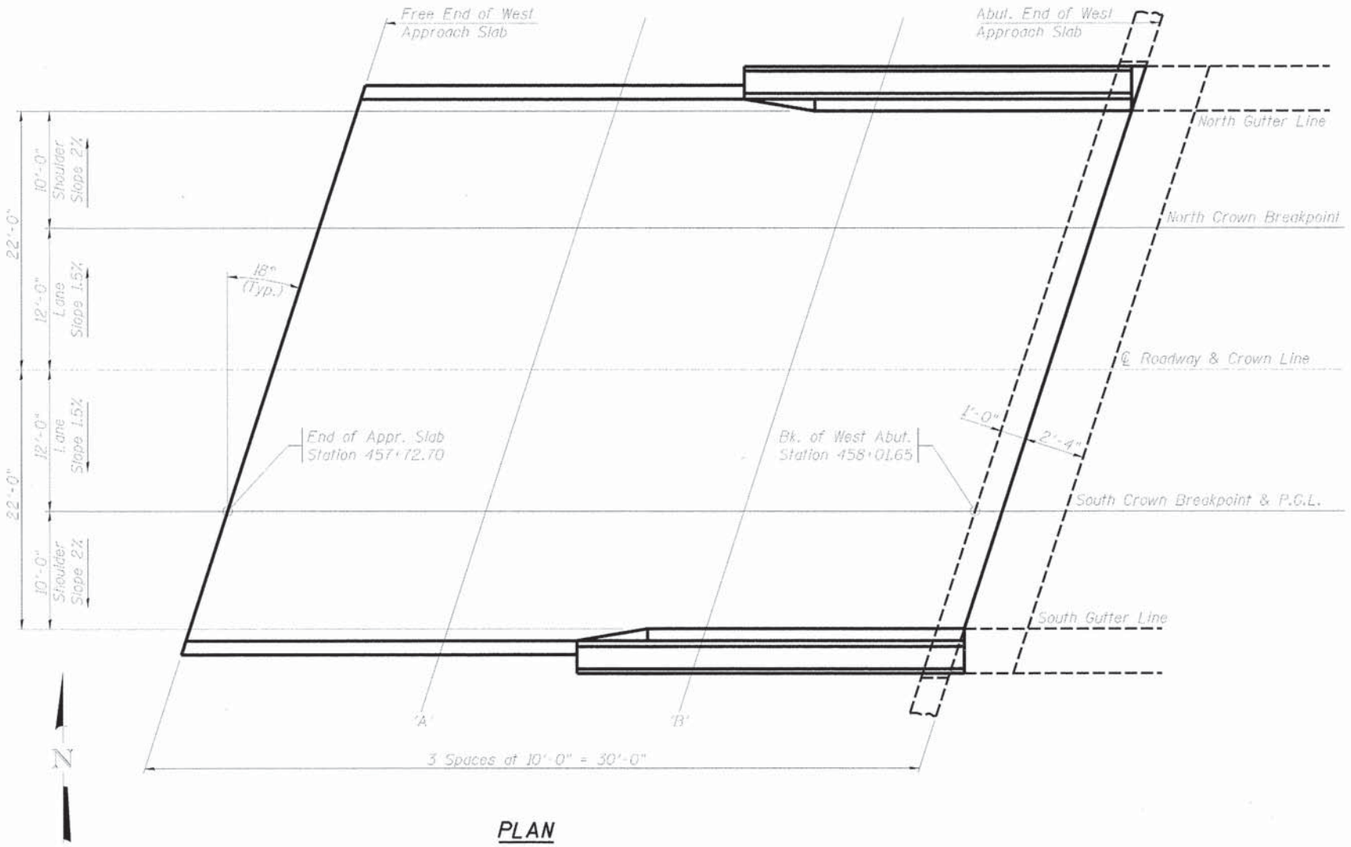
Note: Offsets are from P.G.L.

NORTH CROWN BREAKPOINT

Location	Station	Offset	Theoretical Grade Elevations
Free End of West Appr.	457+80.50	-24.00	761.94
'A'	457+90.50	-24.00	762.01
'B'	458+00.50	-24.00	762.08
Abut. End of West Appr.	458+10.50	-24.00	762.14

℄ ROADWAY and CROWN LINE

Location	Station	Offset	Theoretical Grade Elevations
Free End of West Appr.	457+76.60	-12.00	762.09
'A'	457+86.60	-12.00	762.17
'B'	457+96.60	-12.00	762.24
Abut. End of West Appr.	458+06.60	-12.00	762.30



PLAN

SOUTH CROWN BREAKPOINT and P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
Free End of West Appr.	457+72.70	0.00	761.88
'A'	457+82.70	0.00	761.96
'B'	457+92.70	0.00	762.03
Abut. End of West Appr.	458+02.70	0.00	762.09

SOUTH GUTTER LINE

Location	Station	Offset	Theoretical Grade Elevations
Free End of West Appr.	457+69.45	10.00	761.66
'A'	457+79.45	10.00	761.73
'B'	457+89.45	10.00	761.81
Abut. End of West Appr.	457+99.45	10.00	761.87

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

PLOT DRIVER = IDOT_pdf_150dpi.ptcfg
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
N:\Projects\10L0007\CADD\Struct\Sheet\Final_Plans\0104556-91470-007-WASE.dgn

FILE NAME =	USER NAME = JOHNS00944	DESIGNED - JGT	REVISED -
		CHECKED - MNM	REVISED -
	PLOT SCALE =	DRAWN - Rod	REVISED -
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NUMBER 010-4556
SHEET NO. 07 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	53
		CONTRACT NO. 91470		
		ILLINOIS FED. AID PROJECT		

NORTH GUTTER LINE

Location	Station	Offset	Theoretical Grade Elevations
Abut. End of East Appr.	460+83.15	-34.00	761.71
'A'	460+93.15	-34.00	761.63
'B'	461+03.15	-34.00	761.55
Free. End of East Appr.	461+13.15	-34.00	761.46

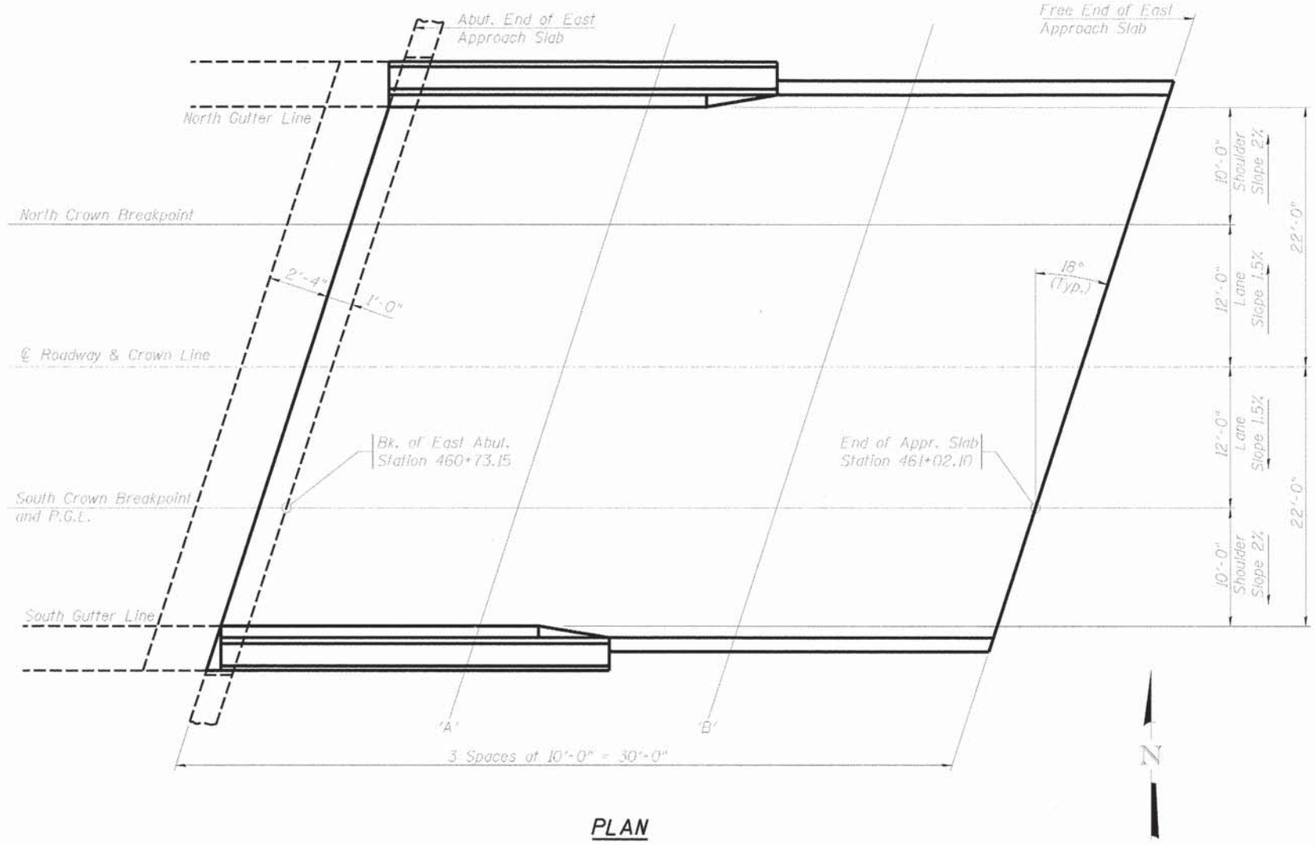
Note: Offsets are from P.G.L.

NORTH CROWN BREAKPOINT

Location	Station	Offset	Theoretical Grade Elevations
Abut. End of East Appr.	460+79.90	-24.00	761.94
'A'	460+89.90	-24.00	761.86
'B'	460+99.90	-24.00	761.78
Free. End of East Appr.	461+09.90	-24.00	761.69

℄ ROADWAY and CROWN LINE

Location	Station	Offset	Theoretical Grade Elevations
Abut. End of East Appr.	460+76.00	-12.00	762.15
'A'	460+86.00	-12.00	762.07
'B'	460+96.00	-12.00	761.99
Free. End of East Appr.	461+06.00	-12.00	761.91



PLAN

SOUTH CROWN BREAKPOINT and P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
Abut. End of East Appr.	460+72.10	0.00	762.00
'A'	460+82.10	0.00	761.92
'B'	460+92.10	0.00	761.84
Free. End of East Appr.	461+02.10	0.00	761.76

SOUTH GUTTER LINE

Location	Station	Offset	Theoretical Grade Elevations
Abut. End of East Appr.	460+68.85	10.00	761.82
'A'	460+78.85	10.00	761.75
'B'	460+88.85	10.00	761.67
Free. End of East Appr.	460+98.85	10.00	761.59

PLOT DRIVER = IDOT_pdf_150dpi.pltcfg
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
N:\Projects\00007\OA00\Struct\Sheet\Final_Plans\0104556-91470-008-EASE.dgn

FILE NAME =

USER NAME = JOHNS0@944	DESIGNED - JGT	REVISED -	
	CHECKED - MNM	REVISED -	
PLOT SCALE =	DRAWN - Rod	REVISED -	
PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NUMBER 010-4556
SHEET NO. 08 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	54
		CONTRACT NO. 91470		
		ILLINOIS FED. AID PROJECT		

* Order $a_1(E)$ and $a_4(E)$ bars full length. Cut to fit skew and use remainder of bars in opposite end.

293- #5 $d_1(E)$ bars at 11" cts. (each side)

Aluminum sheeted construction joints in base of parapet

18'-9" 18'-9" 6 3/16"

3- #5 $b_2(E)$ bars each side bottom of slab (Ea. End)

3x9- #5 $b(E)$ bars bottom of slab (each side)

47'-2" out to out deck

1'-7" 10'-0" Shldr. 1'-2" 5"

12'-0" Lane

12'-0" Lane

10'-0" Shldr. 5" 1'-2" 1'-7"

1'-0" typ.

35- #5 $b_2(E)$ bars spaced as shown in cross section, bottom of slab (each end)

35x9- #5 $b(E)$ bars spaced as shown in cross section, bottom of slab

44x10- #5 $b(E)$ bars equally spaced at ±12" cts., top of slab

43x2- #6 $b_1(E)$ bars at ±12" cts. top of slab over each pier

Crown Break Line

℄ Bridge, Crown Line and ℄ Lanes

1- #5 $a_3(E)$ bar top and bottom

Back of W. Abut.
Back of E. Abut.

* 31- #5 $a_4(E)$ bars at 5½" cts., top
* 19- #5 $a_1(E)$ bars at 9" cts., bottom

5½" 9"

554- #5 $a(E)$ bars at 5½" cts., top
339- #5 $a(E)$ bars at 9" cts., bottom

±6"

℄ Pier No. 1 and No. 2

39'-0" 27'-11"

Profile Grade Line and Crown Break Line

18° Skew

℄ Structure

N

583- #6 $a_2(E)$ bars at 5½" cts. top
(Lap with each $a(E)$ or $a_4(E)$ bar each side of deck)

3x10- #5 $b(E)$ bars top of slab (each side)

2 #6 $b_1(E)$ bars top of slab (each side)

71'-5 3/8" End of Deck to ℄ of Pier (Spans 1 and 3)

126'-6" ℄ Pier No. 1 to ℄ Pier No. 2 (Span 2)

269'-4¾" end to end deck

PARTIAL PLAN

Bridge Fence Railing (Special)

47'-2" Out to Out Deck

44'-0" Face to Face Parapets

1'-7" 10'-0" Shoulder Slope .02' per Ft. 12'-0" Lane Slope .015' per Ft. 12'-0" Lane Slope .015' per Ft. 10'-0" Shoulder Slope .02' per Ft. 1'-7"

Total drop = 4 9/16"

$d(E)$ $d_1(E)$ $b(E)$ $b_1(E)$ $a_2(E)$ $a(E)$ or $a_4(E)$ $a(E)$ or $a_1(E)$ 2"

℄ Bridge, Crown Line and ℄ Lanes (Symm.)

Crown Break Line

8" Slab

2½" cl. +¼"

1" cl.

Profile Grade line and Crown Break Line

2½" cl. +¼"

$a_2(E)$

2'-10"

$d(E)$ $d_1(E)$ $b(E)$ $b(E)$ or $b_2(E)$

9" 7- #5 $b(E)$ or $b_2(E)$ bars at 13" cts. typ. between beams 9"

G1 G2 G3 G4 G5 G6

3'-7" 5-Girder Spaces at 8'-0" = 40'-0" 3'-7"

CROSS SECTION
(Looking East)

NEAR PIER

NEAR MIDSPAN

MINIMUM BAR LAP

#5 bar = 2'-7"
#6 bar = 3'-1"

Flange Clamps and Conduit Hanger for 4"ϕ Standard Weight Galvanized Steel Conduit. See Conduit Plans for Details.

Notes:
See Sheet 11 of 32 for superstructure details and Bill of Material.
Bars indicated thus 45 x 10- #5 etc. indicates 45 lines of bars with 10 lengths per line.
See Sheet 11 of 32 for parapet reinforcement.

HANSON

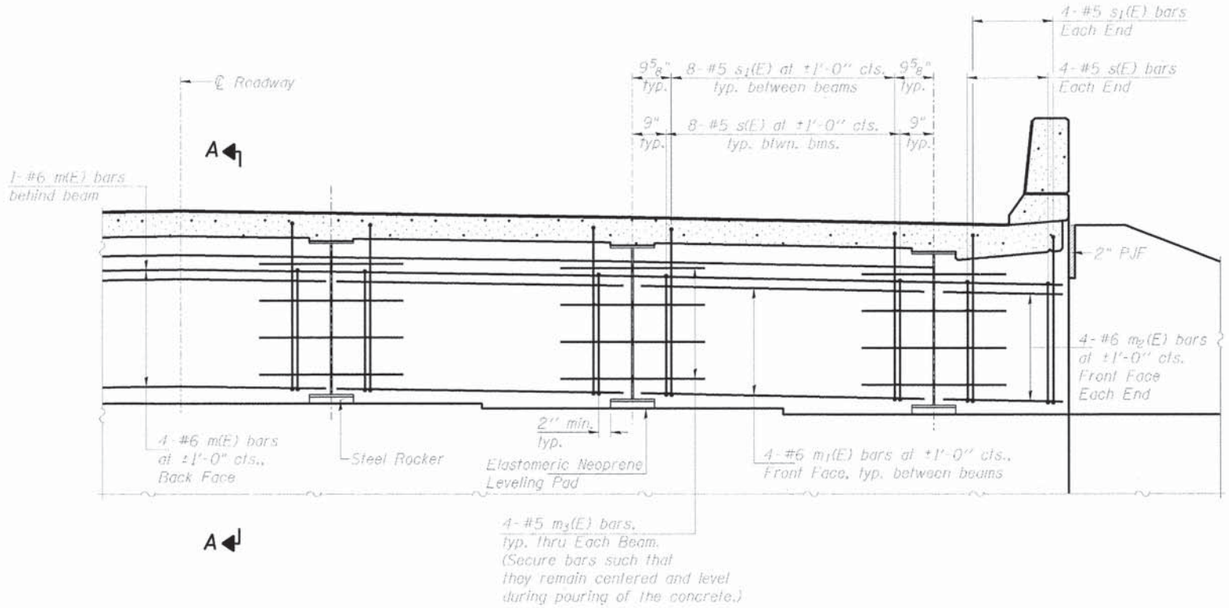
PLOT DRIVER = 100T_pdf_150dpi.pltcfg
01\21\2014 PENTABLE = 100T_Struct.TBL
MODEL NAME = Default
E:\Projects\101.0007\CADD\Struct\Sheet\Final_Plans\01045S6-91470-009-DECK.dgn

FILE NAME =	USER NAME = JOHNS0944	DESIGNED - JGT	REVISED -	
		CHECKED - MNM	REVISED -	
	PLOT SCALE =	DRAWN - Rod	REVISED -	
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -	

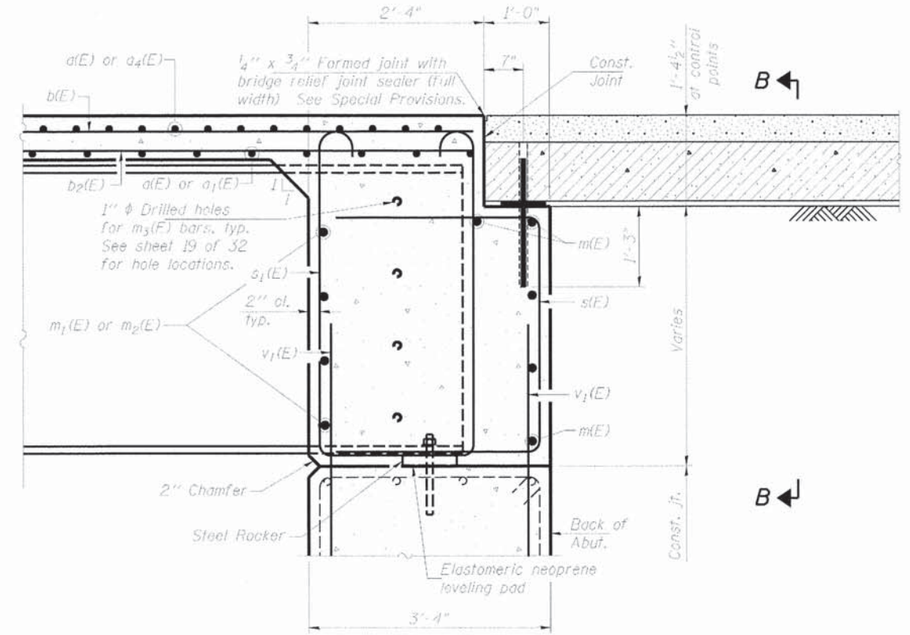
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE PLAN and DECK CROSS SECTION
STRUCTURE NUMBER 010-4556
SHEET NO. 09 OF 32 SHEETS

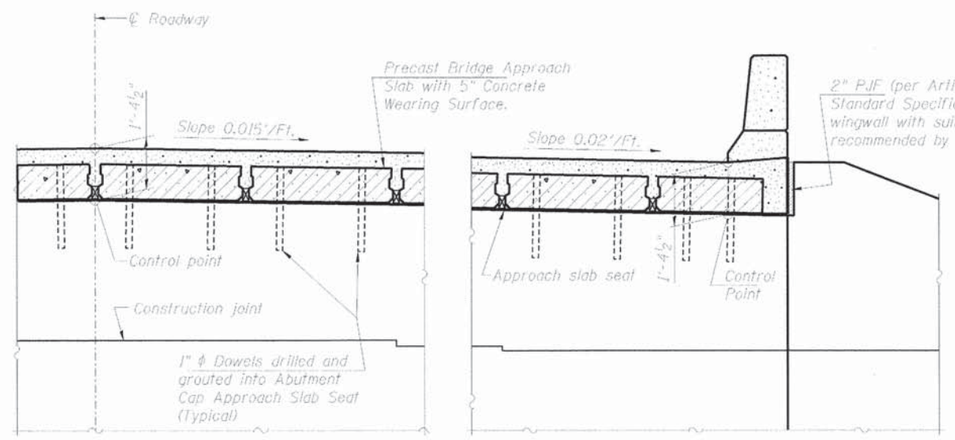
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	55
		CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



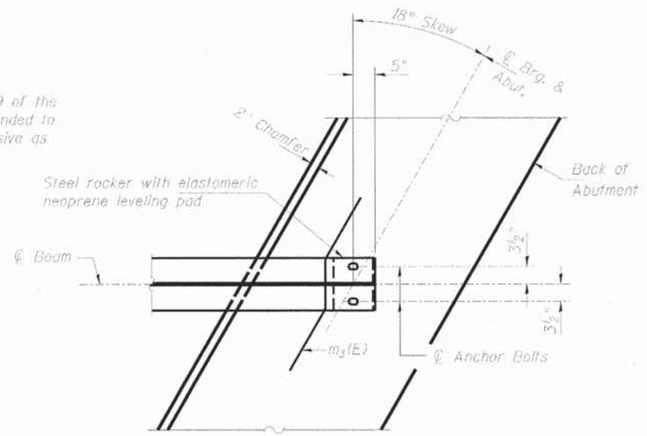
DIAPHRAGM ELEVATION AT ABUTMENT



SECTION A-A
(at Rt. L's)



SECTION B-B



PARTIAL PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:
Reinforcement bars in diaphragm are billed with superstructure on sheet 11 of 32.
Concrete in diaphragm is included with Concrete Superstructure on sheet 11 of 32.
For details of bars s(E) and s_1(E) see sheet 11 of 32.
The s(E) and s_1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
The approach slab seat shall have a constant slope determined from the control points shown.
For bearing details see sheet 22 of 32.

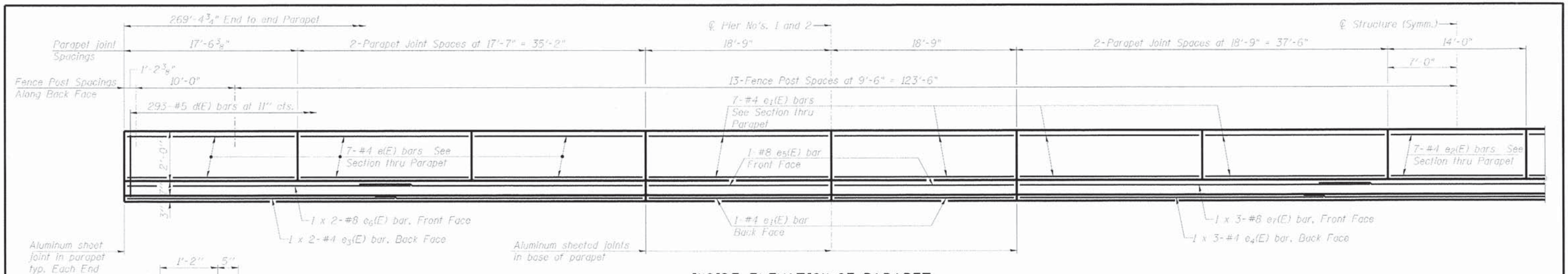
PLOT DRIVER = IDOT_pdf_150dpi.pltcfg
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
Z:\Opus\10CO007\CAD\Struct\Sheet\Final_Plans\0104556-91470-010-DAF.dgn

FILE NAME =	USER NAME = JOHNS0944	DESIGNED - JGT	REVISED -
		CHECKED - MNM	REVISED -
	PLOT SCALE =	DRAWN - Rod	REVISED -
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -

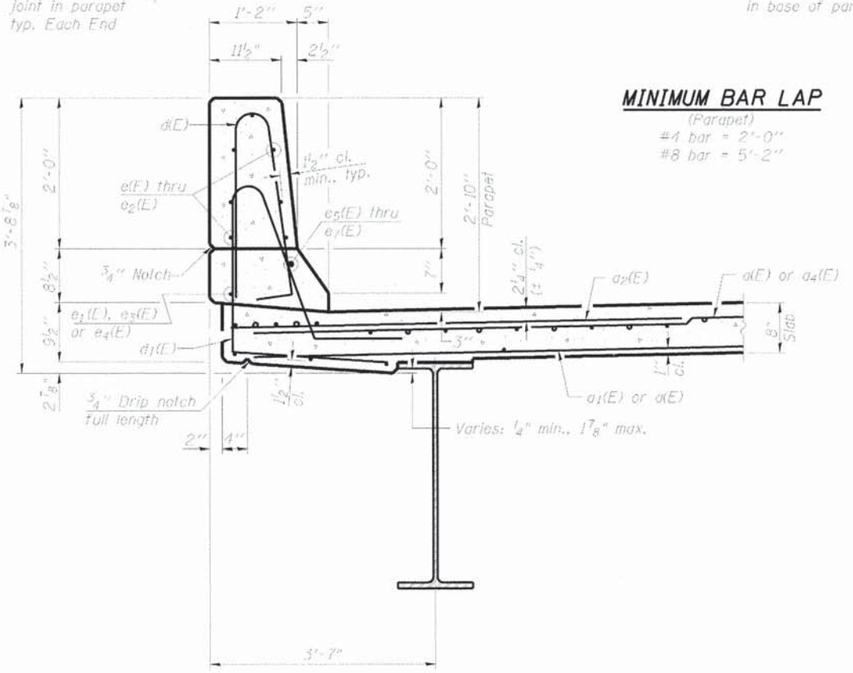
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTEGRAL ABUTMENT DIAPHRAGM DETAILS
STRUCTURE NUMBER 010-4556
SHEET NO. 10 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	56
		CONTRACT NO. 91470		
		ILLINOIS FED. AID PROJECT		



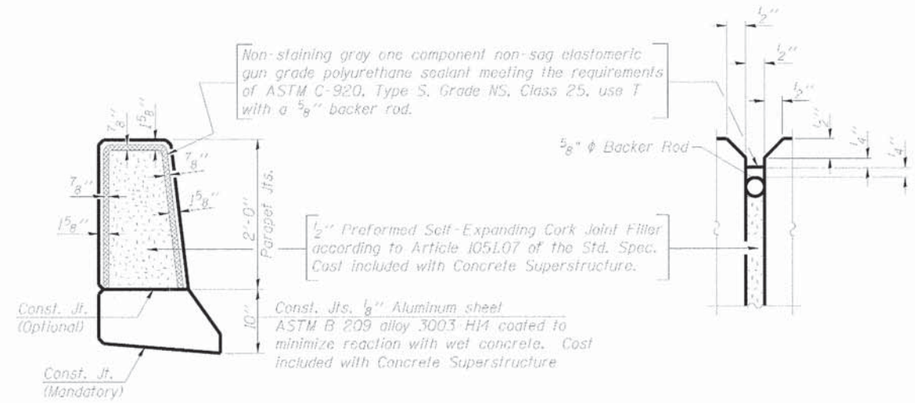
INSIDE ELEVATION OF PARAPET



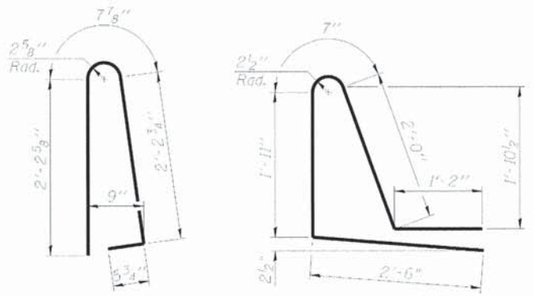
MINIMUM BAR LAP

(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"

SECTION THRU PARAPET

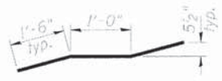


PARAPET JOINT DETAILS



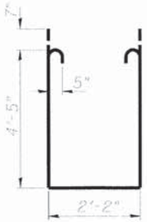
BAR d(E)

BAR d1(E)



BAR m3(E)

BAR s(E)



BAR s1(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	893	#5	46'-0"	
d1(E)	19	#5	47'-8"	
d2(E)	1166	#6	6'-6"	
d3(E)	4	#5	48'-4"	
d4(E)	31	#5	48'-10"	
b(E)	869	#5	29'-3"	
b1(E)	188	#6	35'-0"	
b2(E)	82	#5	15'-10"	
d(E)	586	#5	5'-7"	P
d1(E)	586	#5	8'-2"	P
e(E)	84	#4	17'-3"	
e1(E)	120	#4	18'-5"	
e2(E)	14	#4	13'-8"	
e3(E)	8	#4	27'-3"	
e4(E)	6	#4	31'-0"	
e5(E)	8	#8	18'-5"	
e6(E)	8	#8	28'-10"	
e7(E)	6	#8	33'-1"	
m(E)	10	#6	49'-2"	
m1(E)	40	#6	8'-0"	
m2(E)	16	#6	3'-4"	
m3(E)	48	#5	4'-0"	
s(E)	96	#5	9'-2"	CU
s1(E)	96	#5	12'-2"	CU
Reinforcement Bars, Epoxy Coated		Pound	11120	
Concrete Superstructure		Cu. Yd.	441.7	

Bars indicated thus 1 x 2 #8 etc. indicates 1 line of bars with 2 lengths per line.
Space horizontal reinforcement bars in the parapet to miss anchors for fencing.

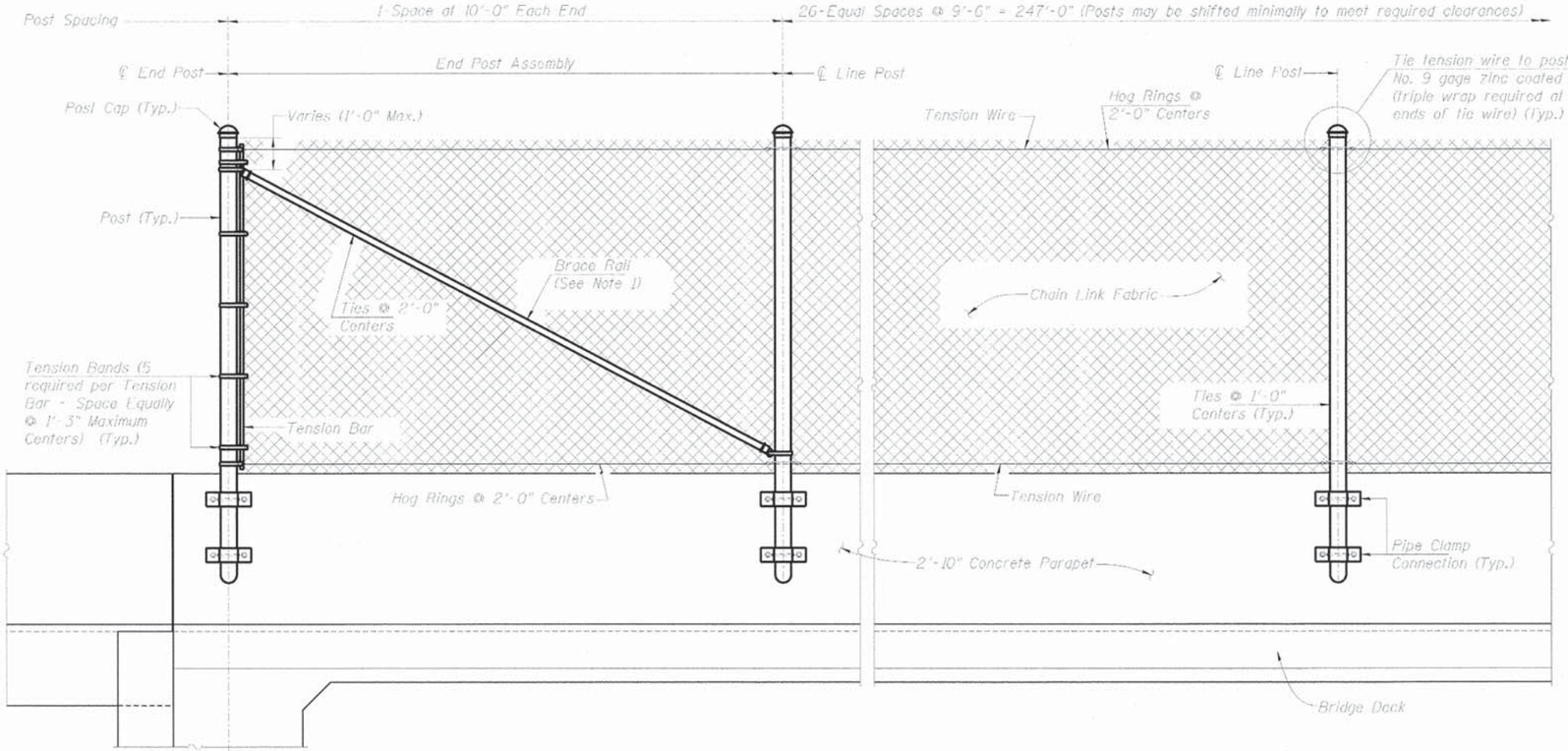
PLOT DRIVER = IDOT_pdf_150dpi.pltcfg
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
L:\Opers\DL0007\CADD\Struct\Sheet\Final_Plans\0104556-91470-011-SDET.dgn

FILE NAME =	USER NAME = JOHNS00944	DESIGNED - JGT	REVISED -
		CHECKED - MNM	REVISED -
	PLOT SCALE =	DRAWN - Rod	REVISED -
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

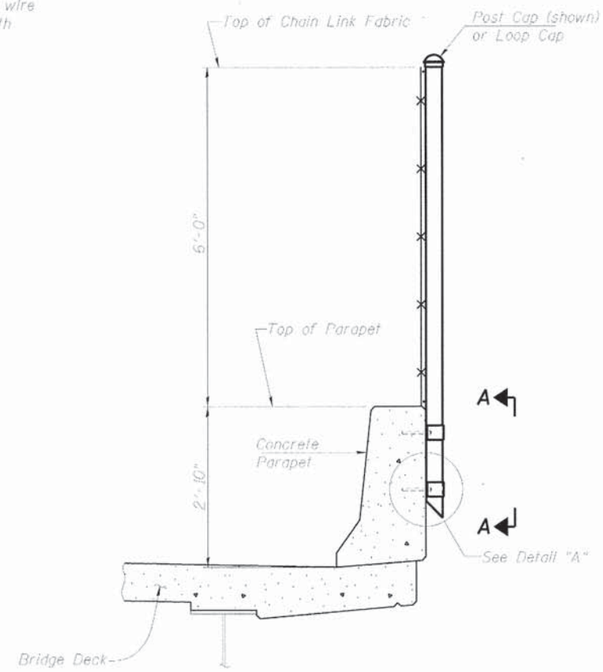
SUPERSTRUCTURE DETAILS
STRUCTURE NUMBER 010-4556
SHEET NO. 11 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	57
		CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



ELEVATION OF OUTSIDE FACE OF BARRIER

NOTES:
1. Brace rails are only required at End Post Assemblies.



TYPICAL SECTION THRU CONCRETE PARAPET

FENCING NOTES

FENCE INSTALLATION:
Install posts plumb (within a tolerance of ±1½"). Use shim plates as required to achieve plumb. The required quantity and thickness of shim plates will be determined in the field. Install chain link fence in accordance with ASTM F 567, Section 509 of the Standard Specifications and Special Provision as applicable.

CONCRETE PARAPET DETAILS:
See Sheet 11 of 32 for Concrete Parapet Details.

PAYMENT:
Payment shall be for the contract unit price per foot for "Bridge Fence Railing (Special)". Payment includes posts, brace rails and bands, rail ends, combination rail ends, boulevard clamps, chain link fabric, tension wire, ties, hog rings, tension bars and bands, post and loop caps, pipe clamps, anchor rods, bolts, nuts, washers, neoprene pads, miscellaneous fence fittings and hardware and all incidental materials and labor and equipment required to complete installation of the fence.

COLOR and FINISH:
The chain link fabric, posts, fence framework, tension wire, ties and fittings, shall have a black polyvinyl chloride (PVC) coating. All non-aluminum material shall be galvanized prior to vinyl coating. See Section 1006.27 of the Standard Specifications. Hot-dip galvanize fence framework after fabrication.

CROSS REFERENCE:
For Table of Fence Components, Table of Post Attachment Components, View A-A and Detail "A" see Sheet 13 of 32.

FILE NAME =	USER NAME = JOHNS0944	DESIGNED - JGT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE FENCE RAILING (SPECIAL) – DETAILS (Sheet 1 of 3) STRUCTURE NUMBER 010-4556	F.A.P. RTE. 813
		CHECKED - MNM	REVISED -			SECTION 99-00259-01-PV
	PLOT SCALE =	DRAWN - Rod	REVISED -			COUNTY CHAMPAIGN
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -		SHEET NO. 12 OF 32 SHEETS	TOTAL SHEETS 131
						SHEET NO. 58
						CONTRACT NO. 91470
						ILLINOIS FED. AID PROJECT

PLOT DRIVER = IDOT_pdf_150dpi.pltcfg
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
Z:\Projects\0L0007\CADD\Struct\Sheet\Final_Plans\0104556-91470-012-BFR1.dgn

TABLE OF CHAIN LINK FENCE COMPONENTS		
COMPONENT	ASTM DESIGNATION	COMPONENT INFORMATION
Posts	F 1083	Galvanized Steel Pipe - 3" NPS, Schedule 40 (3.500" Outside Diameter, 0.216" Wall Thickness)
Chain Link Fabric (2" mesh with twisted top and knuckled bottom selvage)	A 392	Zinc Coated Steel - No. 9 gage (coated wire diameter), Class 2 Coating
	A 491	Aluminum Coated Steel - No. 9 gage (coated wire diameter)
	F 668	Polyvinyl Chloride (PVC) Coated Steel - No. 9 gage Zinc Coated Wire (metallic coated core wire diameter)
Tie Wires	F 626	Zinc Coated Steel Wire - No. 9 gage
Brace Bands	F 626	No. 12 Gage (Min. thickness) x $\frac{3}{4}$" (Min. width) Steel Bands (Beveled or Heavy)
Tension Bars	F 626	$\frac{3}{16}$" (Min. thickness) x $\frac{3}{4}$" (Min. width) x 5' 10" (Min. height) Steel Bars
Tension Bands	F 626	No. 14 Gage (Min. thickness) x $\frac{3}{4}$" (Min. width) Steel Bands
Miscellaneous Fence Components	F 626	Zinc Coated Steel - (includes post or loop caps, horizontal and brace rail ends, combination rail ends, boulevard clamps and all other miscellaneous fittings & hardware)
Tension Wire	A 824 & A 817	Type II (Zinc Coated Steel Wire) - No. 7 gage, Class 4 Coating
		Type I (Aluminum Coated Steel Wire) - No. 7 gage
Hog Rings	F 626	Zinc Coated Steel Wire - No. 12 gage
Brace Rails	F 1083	Galvanized Steel Pipe - $1\frac{1}{4}$" NPS, Schedule 40 (1.660" Outside Diameter, 0.140" Wall Thickness)

TABLE OF POST ATTACHMENT COMPONENTS			
COMPONENT		ASTM DESIGNATION	COMPONENT INFORMATION
Pipe Clamps		A 36 or A 709 Grade 36	$\frac{1}{4}$" Steel ℄
Pipe Clamp Connection	Epoxy Grouted Anchor Rods	F 1554 Grade 36	Fully threaded Headless Anchor Rods - $\frac{5}{8}$" ϕ x 6" (no spacer) or $\frac{5}{8}$" ϕ x $7\frac{1}{4}$" (with spacer)
	C-1-P Anchor Rods	F 1554 Grade 36	Hex Head Anchor Rods - $\frac{5}{8}$" ϕ x 6" (no spacer) or $\frac{5}{8}$" ϕ x $7\frac{1}{4}$" (with spacer)
Bolts		A 307	$\frac{3}{8}$" ϕ x $4\frac{3}{4}$" Hex Head Bolts for Pipe Clamp Connections to Posts
Nuts		A 563	Hex Nuts for Pipe Clamp and Base Plate Connections
Washers		F 436	Flat Washers for Pipe Clamp and Base Plate Connections
Neoprene Pads		-	In accordance with Standard Specification Section 1052.02(a)

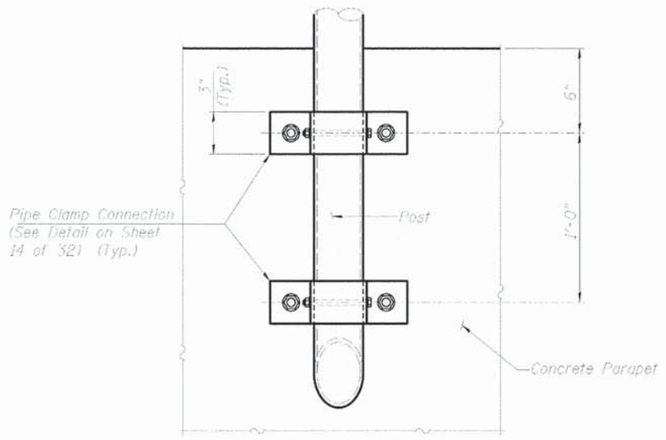
POST ATTACHMENT NOTES

ANCHOR RODS, NUTS and WASHERS:
After the nuts have been tightened, distort the Anchor Rod threads to prevent removal of the nuts. Coat distorted threads and exposed trimmed ends of anchors with a galvanizing compound in accordance with ASTM A780.

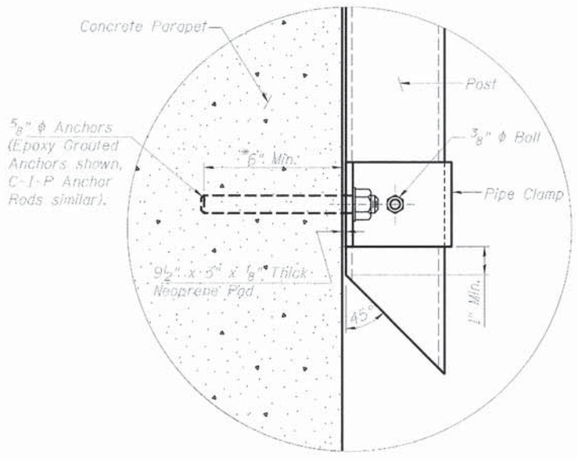
COATINGS:
Hot-dip galvanize all Nuts, Washers, Bolts, C-1-P Anchor Rods, Epoxy Grouted Anchors according to Section 1006.09 of the Standard Specifications. Hot-dip galvanize pipe clamps in accordance with ASTM A123. See Fencing Notes on Sheet 12 of 32 for PVC coating details.

EPOXY GROUTING of ANCHOR RODS and BARS:
Chemical Adhesive Resin System for Anchor Rods and Bars shall comply with Special Provisions. Space reinforcement bars in parapet to miss anchors.

WELDING:
All welding will be in accordance with the American Welding Society Structural Welding Code (Steel) ANSI/AWS D1.1 (current edition). Weld metal will be E60XX or E70XX. Nondestructive testing of welds is not required.



VIEW A-A



DETAIL "A"

*The minimum embedment length shall be 6" or embedment length necessary to achieve 125% of the specified yield strength of the anchor rod or bar.

CROSS REFERENCE:
For location of View A-A and Detail "A" see Sheet 12 of 32.

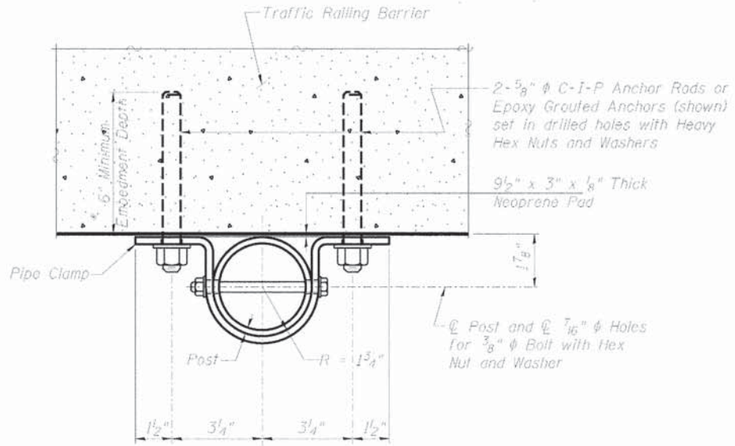
PLOT DRIVER = IDOT_pdf_150dpi.pltcfg
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
Z:\Projects\10.0007\CADD\Struct\Sheet\Final_Plans\0104556-91470-013-BFR2.dgn

FILE NAME =	USER NAME = JOHNS00944	DESIGNED - JGT	REVISED -
		CHECKED - MNM	REVISED -
	PLOT SCALE =	DRAWN - Rod	REVISED -
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE FENCE RAILING (SPECIAL) – DETAILS (Sheet 2 of 3)
STRUCTURE NUMBER 010-4556
SHEET NO. 13 OF 32 SHEETS

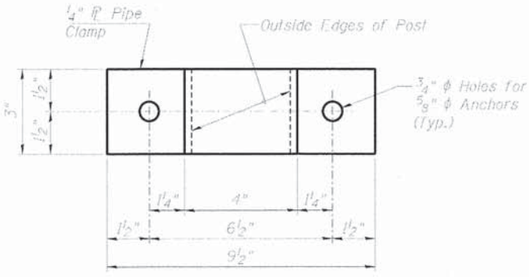
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	59
		CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



PIPE CLAMP CONNECTION DETAIL

(Connection without spacer shown. Connection with spacer similar)

*The minimum embedment length shall be 6" or embedment length necessary to achieve 125% of the specified yield strength of the anchor rod or bar.



PIPE CLAMP DETAIL

BILL OF MATERIAL

ITEM	UNIT	Quantity
Bridge Fence Railing (Special)	Foot	534

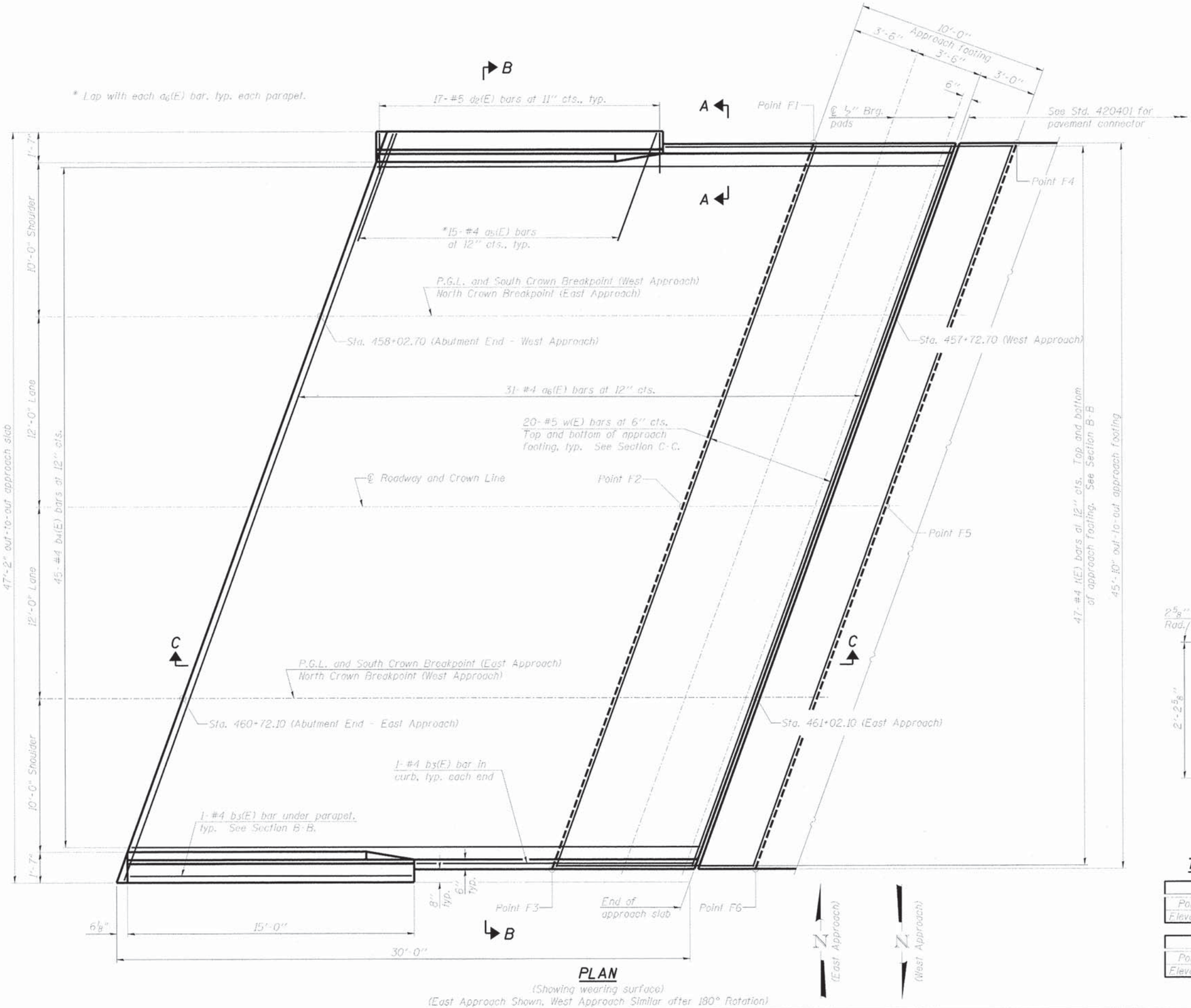
PLOT DRIVER = IDOT_pdf_150dpi.plt\rfg
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
I:\Opus\10\0007\0400\Struct\Sheet\Final_Plans\0104556-91470-014-BFR3.dgn

FILE NAME =	USER NAME = JOHNS0944	DESIGNED - JGT	REVISED -
		CHECKED - MNM	REVISED -
	PLOT SCALE =	DRAWN - Rod	REVISED -
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE FENCE RAILING (SPECIAL) – DETAILS (Sheet 3 of 3)
STRUCTURE NUMBER 010-4556
SHEET NO. 14 OF 32 SHEETS

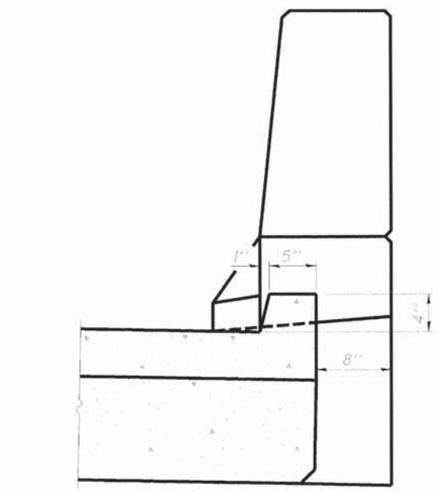
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	60
		CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



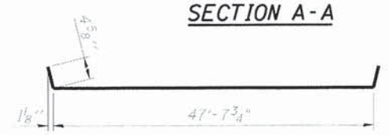
PLAN

(Showing wearing surface)

(East Approach Shown, West Approach Similar after 180° Rotation)

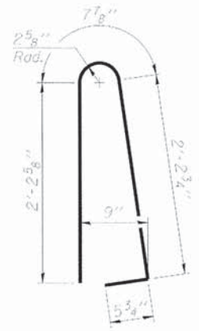


SECTION A-A

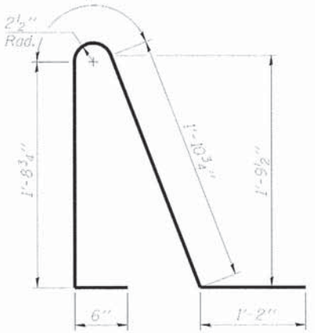


BAR a_6(E)

BAR a_5(E)



BAR d(E)



BAR d_2(E)

TOP OF APPROACH FOOTING ELEVATIONS

WEST APPROACH SLAB FOOTING						
Point	Point F1	Point F2	Point F3	Point F4	Point F5	Point F6
Elevation	760.32	760.47	760.43	760.23	760.69	760.35

EAST APPROACH SLAB FOOTING						
Point	Point F1	Point F2	Point F3	Point F4	Point F5	Point F6
Elevation	760.13	760.59	760.26	760.04	760.50	760.17

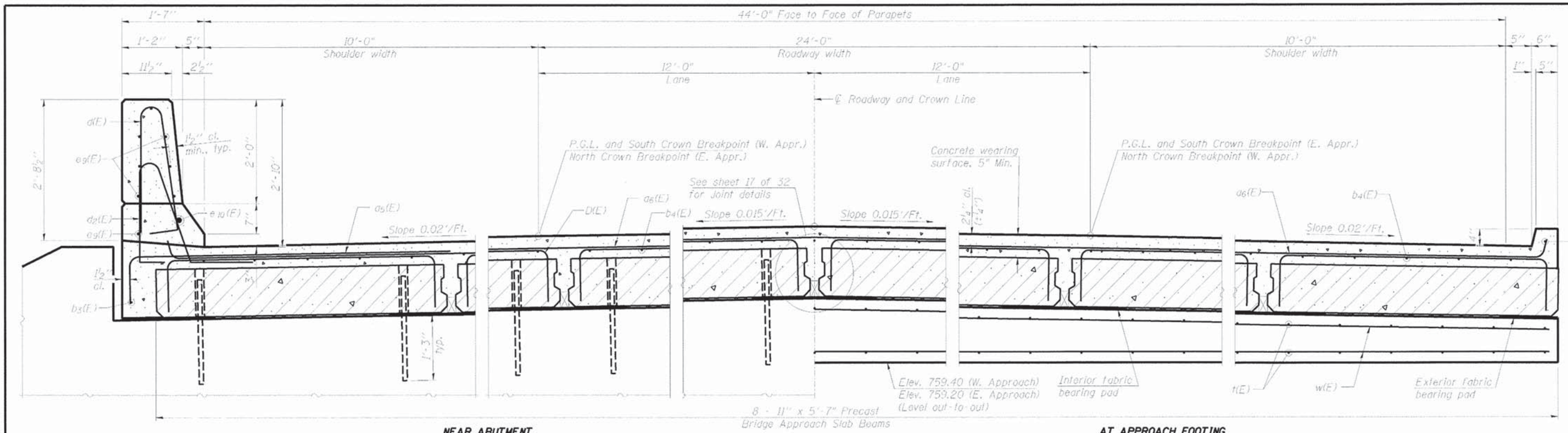
PLOT DRIVER = IDOT_ptf_150dpi.ptf
D1\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
N:\10jobs\10L0007\CADD\Struct\Sheet\Final_Plans\D104556-91470-015-PBA1.dgn

FILE NAME =	USER NAME = JOHNS00944	DESIGNED - JGT	REVISED -
		CHECKED - MNM	REVISED -
	PLOT SCALE =	DRAWN - BWC	REVISED -
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

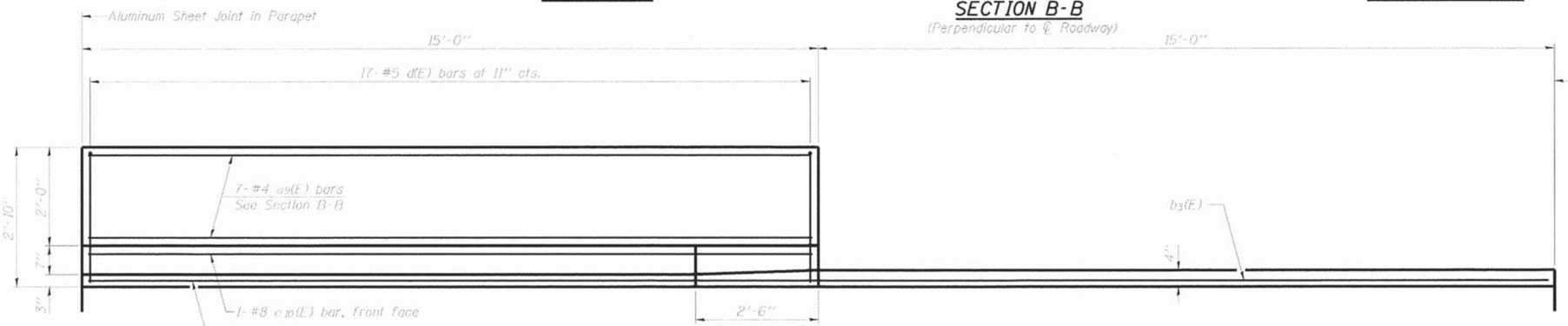
PRECAST BRIDGE APPROACH SLAB (Sheet 1 OF 4)
STRUCTURE NUMBER 010-4556
SHEET NO. 15 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	61
		CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

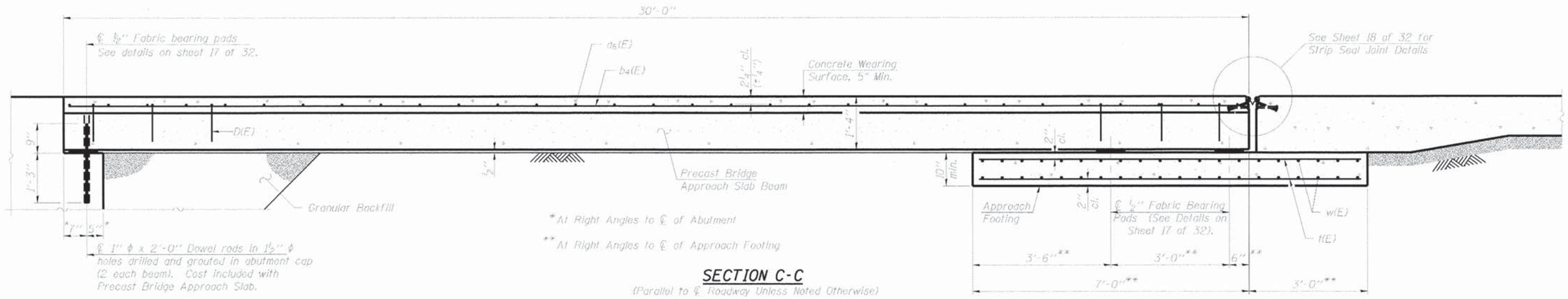


NEAR ABUTMENT **AT APPROACH FOOTING**

SECTION B-B
(Perpendicular to ℄ Roadway)



INSIDE ELEVATION OF PARAPET AND CURB
(Parallel to ℄ Roadway)



SECTION C-C
(Parallel to ℄ Roadway Unless Noted Otherwise)

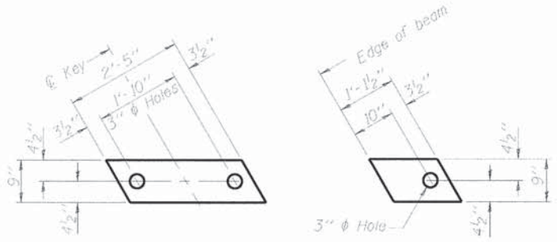
FILE NAME =	USER NAME = JOHNS00944	DESIGNED - JGT	REVISED -
		CHECKED - MNM	REVISED -
	PLOT SCALE =	DRAWN - BWC	REVISED -
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST BRIDGE APPROACH SLAB (Sheet 2 OF 4)
STRUCTURE NUMBER 010-4556
SHEET NO. 16 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	62
		CONTRACT NO. 91470		
		ILLINOIS FED. AID PROJECT		

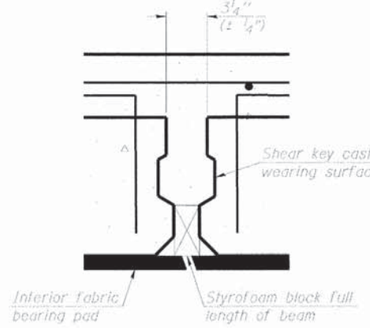
PLOT DRIVER = IDOT_pdf_150dpi.pltcfg
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
C:\Projects\104556\CADD\Struct\Sheet Final_Plans\0104556-91470-016-PB42.dgn



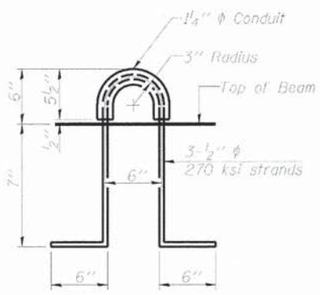
INTERIOR EXTERIOR

FABRIC BEARING PAD

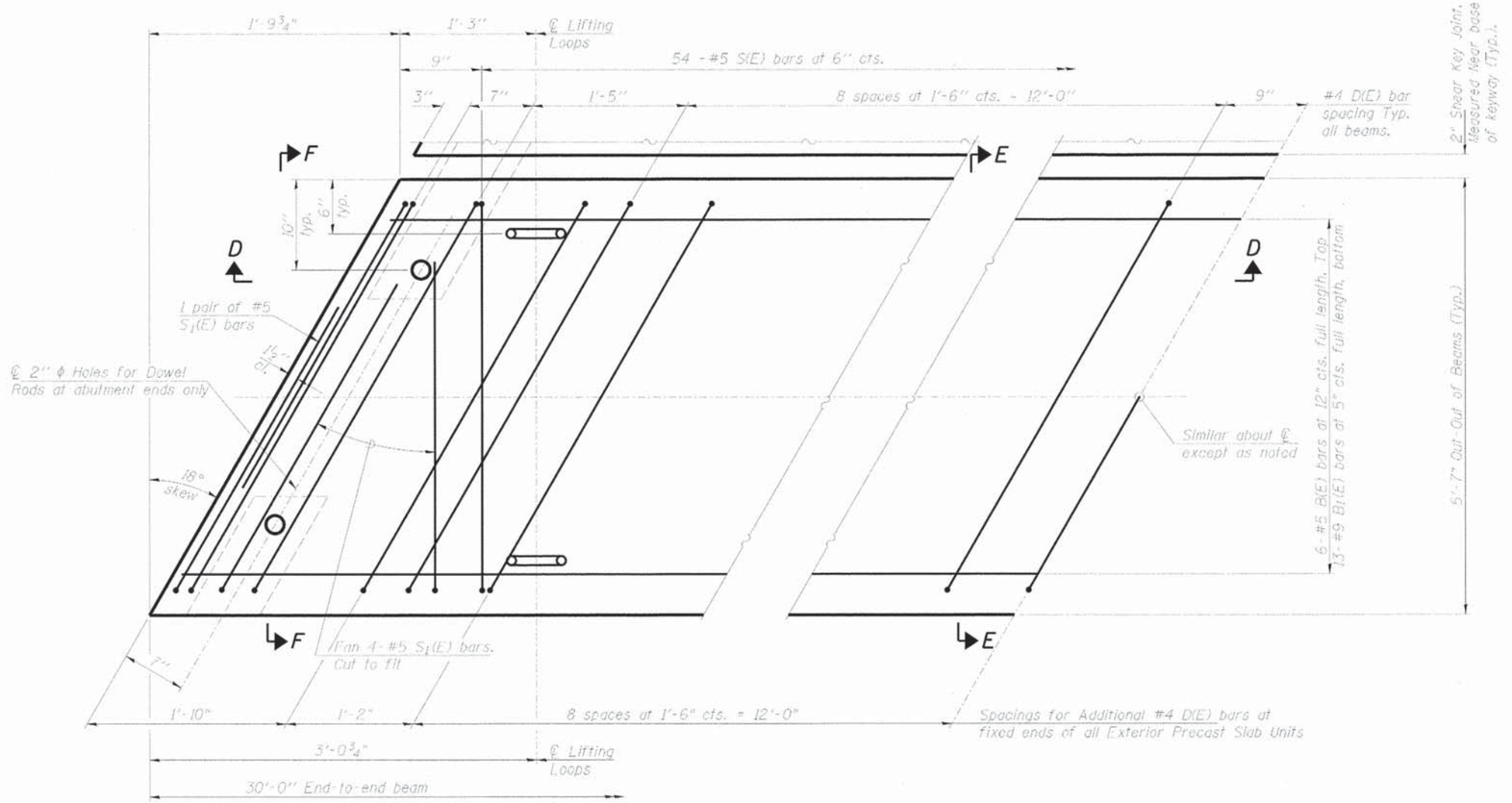
Notes:
All bearing pads shall be ½" thick.
Omit holes for fabric bearing pads at approach slab footing end of beams.
Expansion bearing pad shall be bonded to the approach slab footing.



SECTION THRU SHEAR KEY JOINT



LIFTING LOOP DETAIL

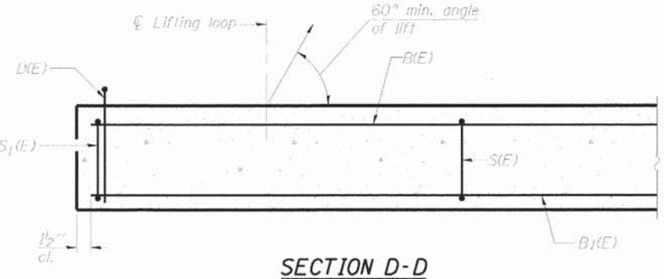


PLAN VIEW

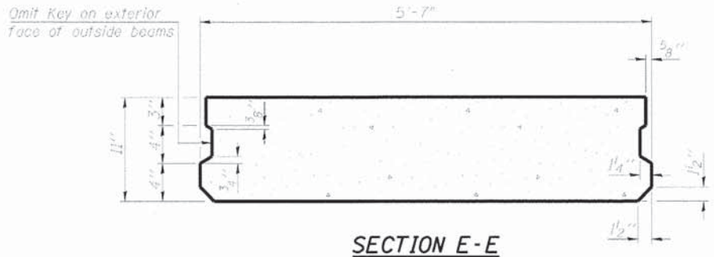
(Precast Bridge Approach Beams)

PLOT DRIVER = IDOT_pdf_150dpi.pltcfg
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
S:\Opus\VOL0007\CAD\Struct\Sheet\Final_Plans\0104556-91470-017-PBA3.dgn

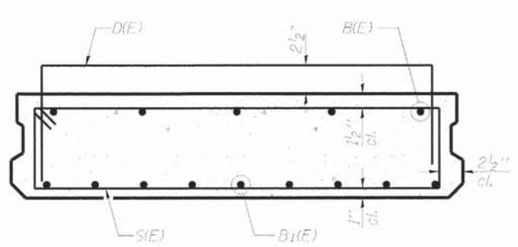
FILE NAME =	USER NAME = JOHNS00944	DESIGNED - JGT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PRECAST BRIDGE APPROACH SLAB (Sheet 3 OF 4) STRUCTURE NUMBER 010-4556	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - MNM	REVISED -			813	99-00259-01-PV	CHAMPAIGN	131	63
	PLOT SCALE =	DRAWN - BWC	REVISED -							CONTRACT NO. 91470
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -		SHEET NO. 17 OF 32 SHEETS			ILLINOIS FED. AID PROJECT		



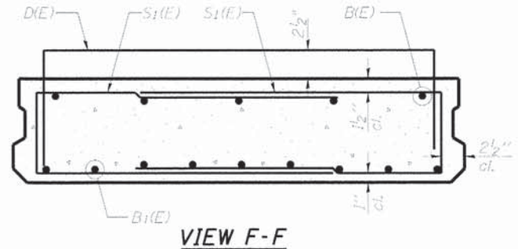
SECTION D-D



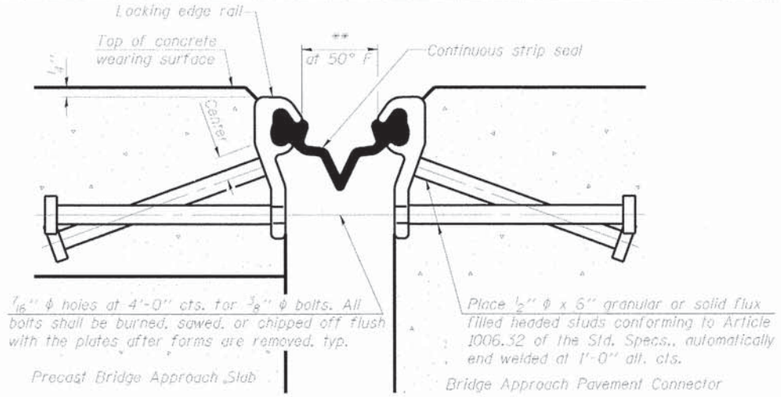
SECTION E-E
(Showing dimensions)



SECTION E-E
(Showing reinforcement)

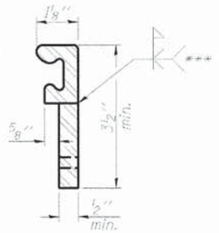


VIEW F-F
(Showing reinforcement)

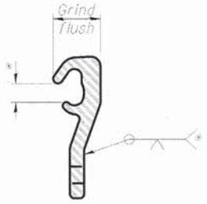


SECTION THRU STRIP SEAL JOINT
(at rt. angles)

ROLLED (EXTRUDED) RAIL



WELDED RAIL



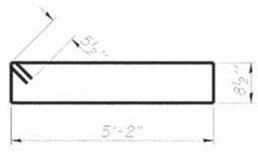
LOCKING EDGE RAIL SPLICE
Rolled rail shown, welded rail similar.

LOCKING EDGE RAIL

* Omit weld at seal opening.

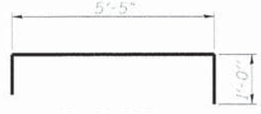
** The joint opening shall be determined per Article 520.04 except that on jointless structures, the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be 1½" for installation purposes.

*** Back gouge not required if complete joint penetration is verified by mock-up.



BAR S(E)

BAR S1(E)



BAR D(E)

INDIVIDUAL INTERIOR BEAM BAR LIST
(For information only)

Bar	No.	Size	Length	Shape
B(E)	6	#5	29'-8"	—
B1(E)	13	#9	29'-8"	—
D(E)	22	#4	7'-5"	⊓
S(E)	54	#5	12'-8"	▭
S1(E)	12	#5	9'-5"	⊔

INDIVIDUAL EXTERIOR BEAM BAR LIST
(For information only)

Bar	No.	Size	Length	Shape
B(E)	6	#5	29'-8"	—
B1(F)	13	#9	29'-8"	—
D(E)	32	#4	7'-5"	⊓
S(E)	54	#5	12'-8"	▭
S1(E)	12	#5	9'-5"	⊔

Notes:

The precast bridge approach slab shall be according to Section 504 of the Standard Specifications and shall be paid for at the contract unit price per square foot for Precast Bridge Approach Slab.

Cast-in-place substitution of Precast Bridge Approach Slab is not allowed.

Parapet concrete shall be paid for as Concrete Superstructure.

Parapet and wearing surface reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.

Approach footing concrete shall be paid for as Concrete Structures.

The top surface of precast bridge approach slabs shall be roughened to a depth of ¼" according to the IDOT "Manual for Fabrication of Precast Prestressed Concrete Products."

After precast bridge approach slab has been erected, holes shall be drilled into abutment and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of precast slab and allowed to cure fully prior to grouting the longitudinal shear keys.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. Cost included with Precast Bridge Approach Slab.

A minimum 2 ½" ϕ lifting pins shall be used to engage the lifting loops during handling.

Compressive strength of precast concrete, f'c shall be 6,000 psi.

For additional parapet details, see sheet 11 of 32.

Any concrete poured monolithically with the wearing surface, such as curbs, will not be paid for separately, but will be included in the cost of Concrete Wearing Surface, 5".

The strip seal shall be made continuous and shall have a minimum thickness of ¼". The strip seal shall extend 6" beyond the edge of the approach slab on each end. The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

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

The inside of the Locking Edge Rail groove shall be free of weld residue.

Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

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

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a5(E)	60	#4	7'-5"	▭
a6(E)	62	#4	48'-5"	▭
b3(E)	8	#4	14'-8"	—
b4(E)	90	#4	29'-8"	—
d(E)	68	#5	5'-7"	⩛
d2(E)	68	#5	5'-11"	⩛
e9(E)	32	#4	14'-8"	—
e10(E)	4	#8	14'-8"	—
f(E)	188	#4	10'-2"	—
w(E)	80	#5	47'-10"	—
Concrete Superstructure			Cu. Yd.	7.8
Concrete Structures			Cu. Yd.	33.5
Reinforcement Bars, Epoxy Coated			Pound	10720
Precast Bridge Approach Slab			Sq. Ft.	2680
Concrete Wearing Surface, 5"			Sq. Yd.	310
Preformed Joint Strip Seal			Foot	96

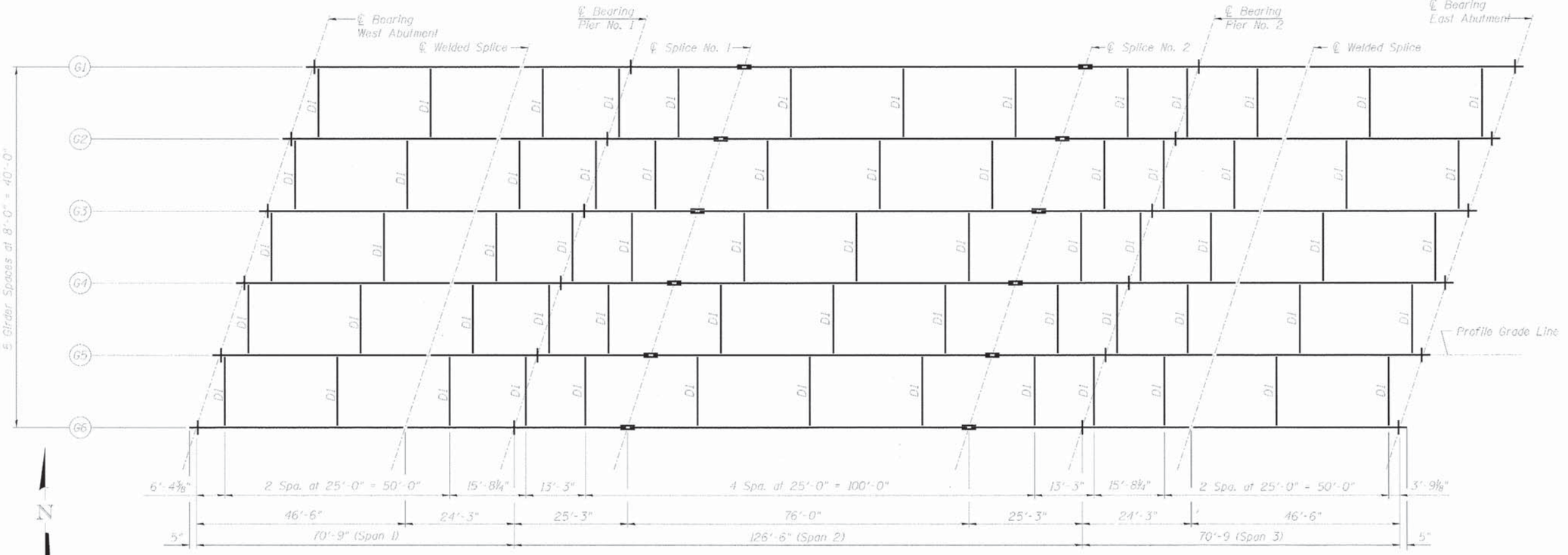
PLOT DRIVER = IDOT_pdf_150dpi.pltcfg
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
Z:\Projects\0LD007\CADD\Struct\Sheet\Prod_Plans\0104556-91470-018-PBA4.dgn

FILE NAME =	USER NAME = JOHNS0944	DESIGNED - JGT	REVISED -
		CHECKED - MNM	REVISED -
	PLOT SCALE =	DRAWN - BWC	REVISED -
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -

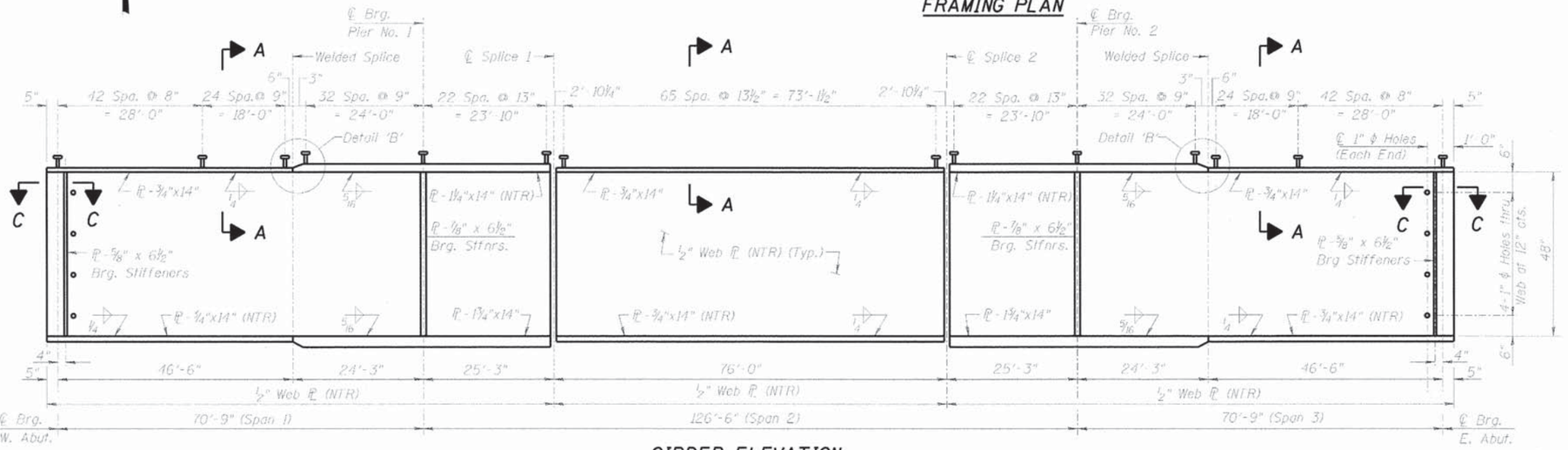
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST BRIDGE APPROACH SLAB (Sheet 4 OF 4)
STRUCTURE NUMBER 010-4556
SHEET NO. 18 OF 32 SHEETS

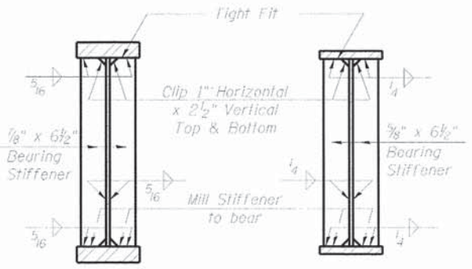
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	64
		CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



FRAMING PLAN

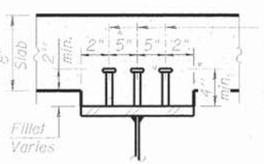


GIRDER ELEVATION



BRG. STIFFENERS AT PIERS

BRG. STIFFENERS AT ABUTMENTS

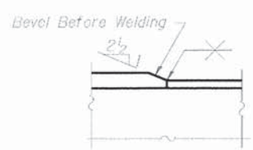


SECTION 'A'-'A'

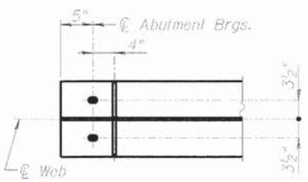
¾"ϕ Granular or solid flux filled headed studs automatically end welded to flange. (No. Req'd. = 5,580)

Notes:
All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.



DETAIL 'B'

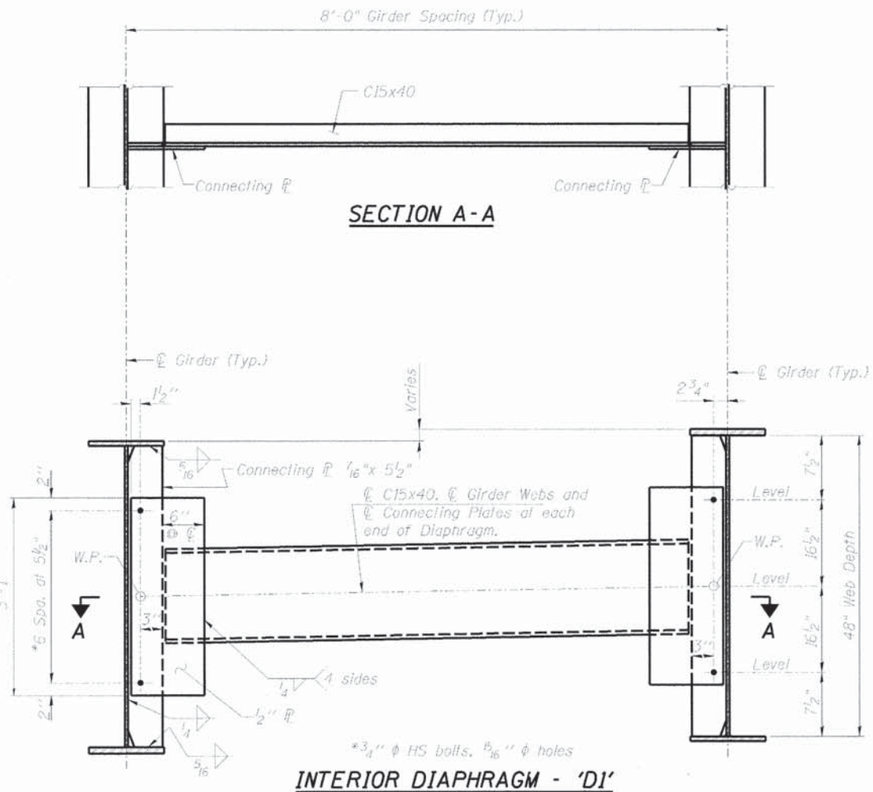


SECTION 'C'-'C'

PLOT DRIVER = 100T_pdf_1306pi.pltcfg
01\21\2014 PENTABLE = 100T_Struct.TBL
MODEL NAME = Default
S:\Optos\100007\CADD\Struct\Sheet\Fnal_Plans\0104556-91470-019-SST1.dgn

FILE NAME =	USER NAME = JOHNS0944	DESIGNED - JGT	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**STRUCTURAL STEEL – FRAMING PLAN STRUCTURE NUMBER 010-4556**
		CHECKED - MNM	REVISED -		
	PLOT SCALE =	DRAWN - BWC	REVISED -		SHEET NO. 19 OF 32 SHEETS
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	65
		CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



INTERIOR DIAPHRAGM - 'D1'

(65 Required)

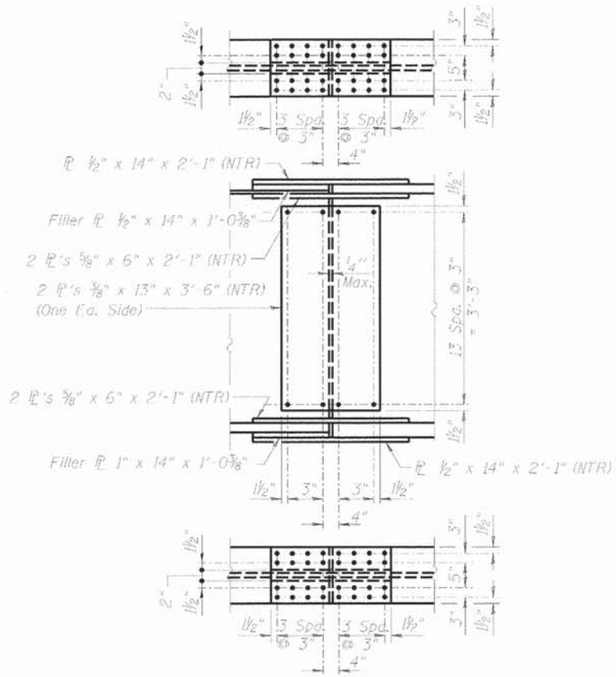
Notes:

All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

All connecting plates and Diaphragm members shall conform to the requirements of AASHTO M270, Grade 50W.

Alternate Channels C15x50 are permitted to facilitate material acquisition. Calculated weight of Structural Steel is based on C15x40 sections. The alternate, if utilized, shall be provided at no extra cost to the department.

Two hardened washers required for each set of oversized holes.



DETAIL - FIELD SPLICE

Note:

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

Use ⅞" ϕ H.S. Bolts with 15/16" ϕ holes for all splice connections.

Splice plates shall conform to the requirements of AASHTO M270, Grade 50W.

PLOT DRIVER = IDOT_pdf_150dpi.plt\fg
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
Z:\Opsys\Volume01\CADD\Struct\Sheet\Final_Plans\0104556-91470-020-S071.dgn

FILE NAME =	USER NAME = JOHNS00944	DESIGNED - JGT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL STEEL – DETAILS (Sheet 1 of 2) STRUCTURE NUMBER 010-4556 SHEET NO. 20 OF 32 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - MNM	REVISED -			813	99-00259-01-PV	CHAMPAIGN	131	66
	PLOT SCALE =	DRAWN - BWC	REVISED -						CONTRACT NO. 91470	
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -					ILLINOIS FED. AID PROJECT		

INTERIOR GIRDER MOMENT TABLE				
		0.35 Sp. 1 or 0.65 Sp. 3	Pier 1 or Pier 2	0.5 Sp. 2
I_s	(in^4)	17086	29905	17086
$I_c(n)$	(in^4)	41894	-	41894
$I_c(3n)$	(in^4)	31643	-	31643
$I_c(cr)$	(in^4)	-	37100	-
S_s	(in^3)	690	1070	690
$S_c(n)$	(in^3)	961	-	961
$S_c(3n)$	(in^3)	882	-	882
$S_c(cr)$	(in^3)	-	1515	-
DC1	(k/')	0.987	1.069	0.987
M_{DC1}	('k)	117	1318	722
DC2	(k/')	0.166	0.166	0.166
M_{DC2}	('k)	21	210	122
DW	(k/')	0.367	0.367	0.367
M_{DW}	('k)	47	464	270
M_{L+IM}	('k)	926	1598	1144
M_u (Strength I)	('k)	1862	-	3461
$\phi_f M_n$	('k)	5122	-	4682
f_s DC1	(ksi)	2.03	14.78	12.55
f_s DC2	(ksi)	0.29	1.66	1.66
f_s DW	(ksi)	0.63	3.68	3.67
f_s (L+IM)	(ksi)	11.55	12.66	14.27
f_s (Service II)	(ksi)	17.97	36.58	36.44
$0.95R_hF_yf$	(ksi)	47.50	47.50	47.50
f_s (Total)(Strength I)	(ksi)	-	48.23	-
$\phi_f F_n$	(ksi)	-	50.0	-
V_r	(k)	31.8	34.9	31.9

INTERIOR GIRDER REACTION TABLE			
		W. or E. Abut.	Pier 1 or Pier 2
R_{DC1}	(k)	17.3	119
R_{DC2}	(k)	2.9	19.3
R_{DW}	(k)	6.4	42.1
R_{L+IM}	(k)	87.8	163.5
R_{Total}	(k)	114.4	344.5

I_s, S_s: Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads ($in.^4$ and $in.^3$).

$I_c(n)$, $S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads ($in.^4$ and $in.^3$).

$I_c(3n)$, $S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

$I_c(cr)$, $S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

DC1: Un-factored non-composite dead load (kips/ft.).

M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_{L+IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M_u (Strength I): Factored design moment (kip-ft.).
$1.25\ (M_{DC1} + M_{DC2}) + 1.5\ M_{DW} + 1.75\ M_{L+IM}$

$\phi_f M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
M_{DC1} / S_{nc}

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
$M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
$M_{DW} / S_c(3n)$ or $M_{DW} / S_c(cr)$ as applicable.

f_s (L+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
$M_{L+IM} / S_c(n)$ or $M_{DW} / S_c(cr)$ as applicable.

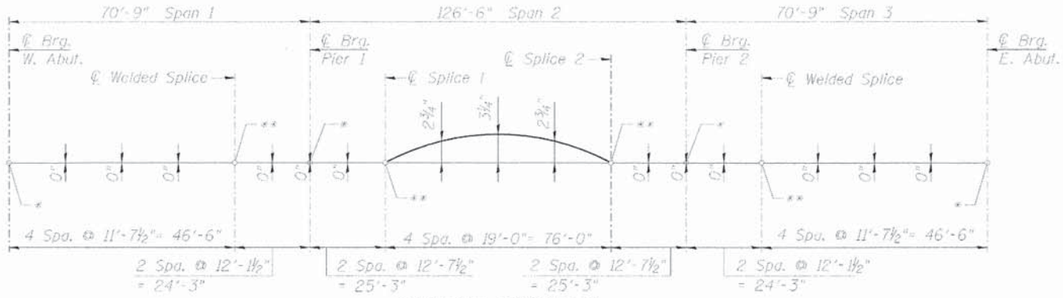
f_s (Service II): Sum of stresses as computed below (ksi).
$f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3\ f_s(L+IM)$

$0.95R_hF_yf$: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
$1.25\ (f_{sDC1} + f_{sDC2}) + 1.5\ f_{sDW} + 1.75\ f_s(L+IM)$

$\phi_f F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

V_r: Maximum factored shear range in span computed according to Article 6.10.10.



CAMBER DIAGRAM

* See Table for Final Top of Web Elevations at abutments and piers.
** Theoretical Top of Web Elevations before dead load deflections.

TOP of WEB ELEVATIONS TABLE

For Fabrication Only

Girder Number	℄ Brg. W. Abut.	Weld Splice	℄ Brg. Pier 1	℄ Splice No. 1	℄ Splice No. 2	℄ Brg. Pier 2	Weld Splice	℄ Brg. E. Abut.
Girder 1	761.21	761.36	761.44	761.53	761.46	761.33	761.21	760.97
Girder 2	761.36	761.51	761.60	761.68	761.63	761.50	761.38	761.15
Girder 3	761.46	761.62	761.71	761.80	761.75	761.63	761.51	761.29
Girder 4	761.44	761.61	761.70	761.80	761.76	761.64	761.53	761.31
Girder 5	761.31	761.48	761.58	761.67	761.64	761.53	761.42	761.21
Girder 6	761.13	761.31	761.41	761.51	761.49	761.38	761.27	761.07

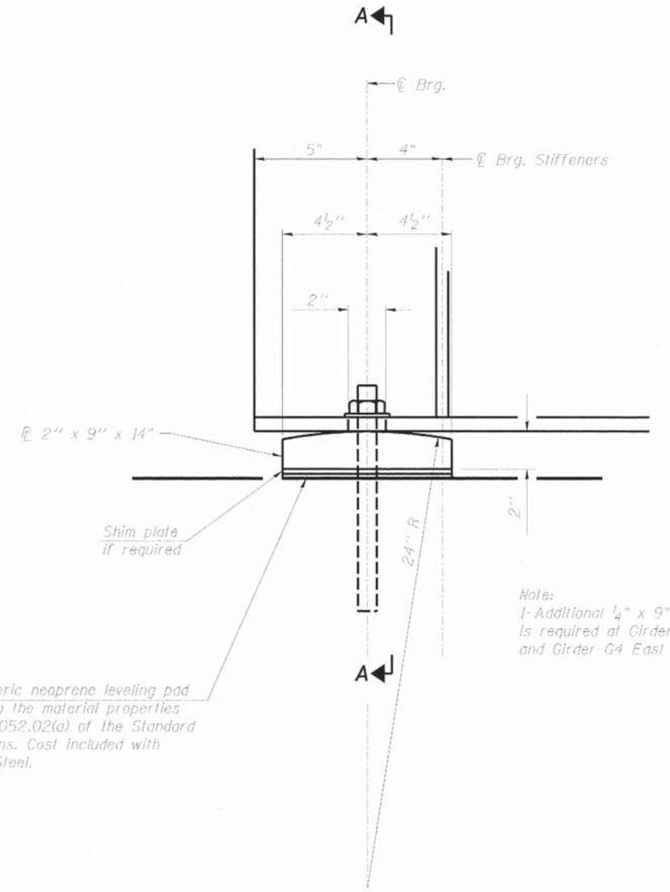
PLOT DRIVER = IDOT_pdf_1500pi.pltcfg
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
X:\Opus\130007\GDO\Struct\Sheet\Finol_Plans\0104556-91470-021-SD12.dgn

FILE NAME =	USER NAME = JOHNS0944	DESIGNED - JGT	REVISED -
		CHECKED - MNM	REVISED -
	PLOT SCALE =	DRAWN - BWC	REVISED -
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

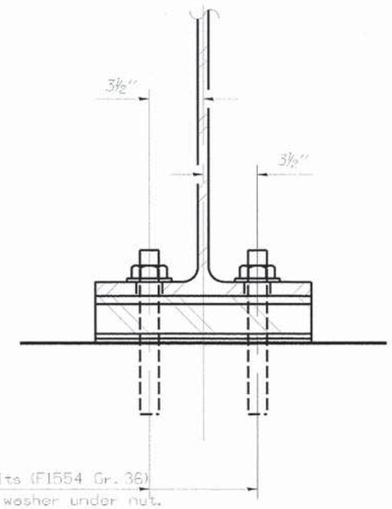
STRUCTURAL STEEL – DETAILS (Sheet 2 of 2)
STRUCTURE NUMBER 010-4556
SHEET NO. 21 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	67
		CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



Note:
1- Additional ¼" x 9" x 14" Shim plate is required at Girder G3 West Abutment and Girder G4 East Abutment.

ELEVATION AT ABUTMENT



- 1" l x 12" anchor bolts (F1554 Gr. 36) with 2¼"x 2¼"x 5/16" washer under nut. 1⅜"x 2" slotted hole in the bottom flange. Provide 1½" l holes in bearing plate.

SECTION A-A

INTEGRAL ABUTMENT FIXED BEARING DETAILS

NOTES:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of ASTM M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Two ⅛" adjusting shims shall be provided for each bearing assembly in addition to all other plates or shims and placed as shown on bearing details.

Shim plates specified, other than the two adjusting shims to be furnished with each bearing assembly, shall be included in the cost of "Furnishing and Erecting Structural Steel".

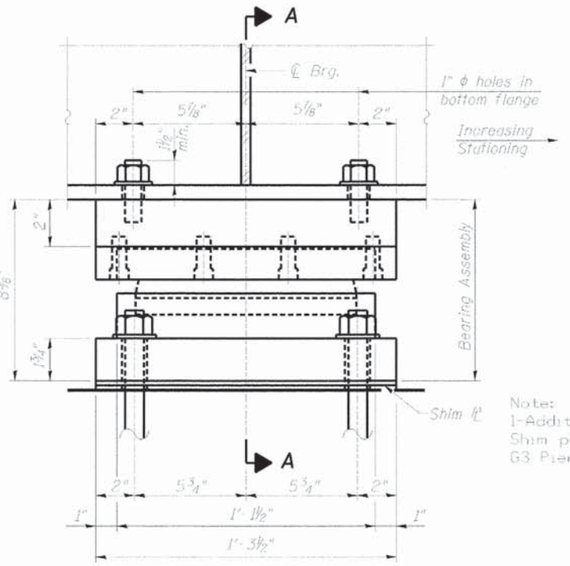
The Structural Steel plates of the Bearing Assemblies shall conform to the requirements of AASHTO M270, Grade 50W.

BILL OF MATERIAL

ITEM	UNIT	Quantity
Anchor Bolts, 1"	Each	24

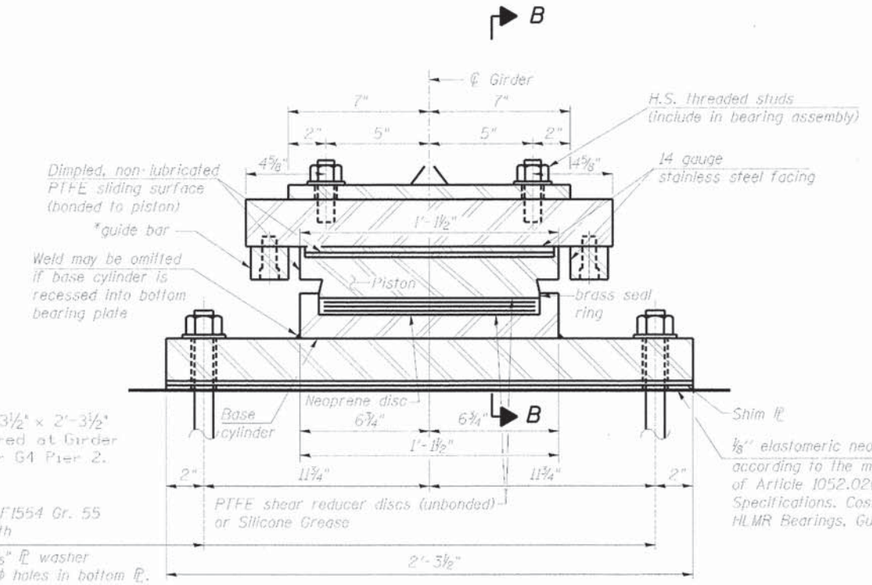
FILE NAME =	USER NAME = JOHNS00944	DESIGNED - JGT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIXED STEEL BEARING DETAILS STRUCTURE NUMBER 010-4556	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - MNM	REVISED -			813	99-00259-01-PV	CHAMPAIGN	131	68
	PLOT SCALE =	DRAWN - BWC	REVISED -		SHEET NO. 22 OF 32 SHEETS				CONTRACT NO. 91470	
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -					ILLINOIS FED. AID PROJECT		

PLOT DRIVER = IDOT_pdf_150dpi.ptc\q
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
I:\Opies\10.0007\CADD\Struct\Sheet\Fred_Piers\0104556-91470-022-FBRG.dgn

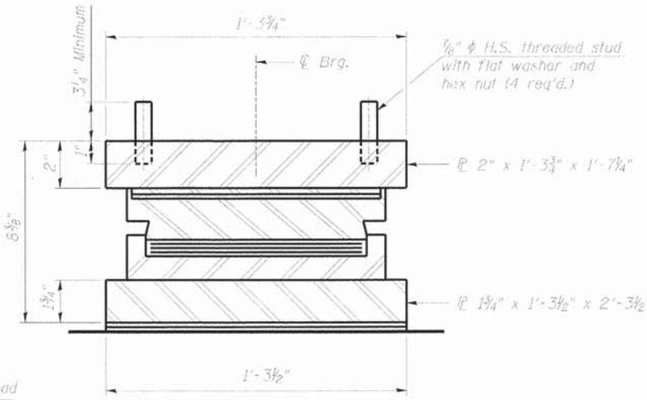


ELEVATION AT PIER

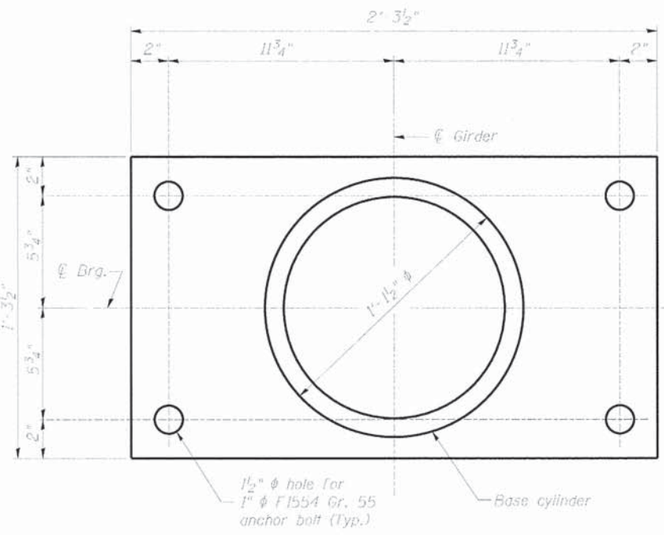
Note:
1-Additional ⅛" x 1'-3½" x 2'-3½" Shim plate is required at Girder G3 Pier 1 and Girder G4 Pier 2.



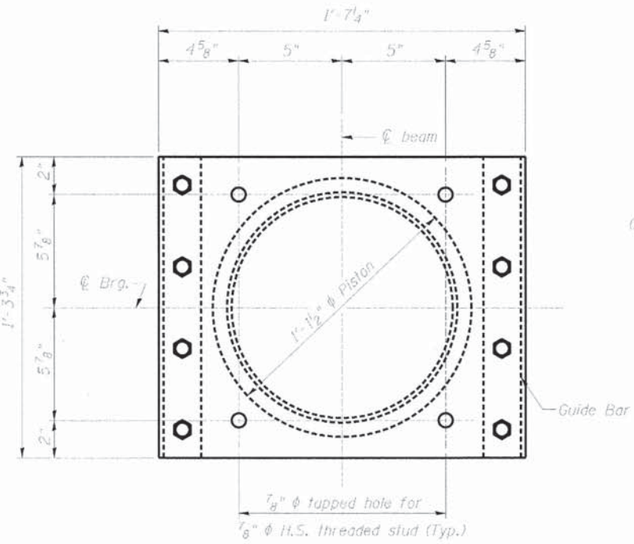
SECTION A-A



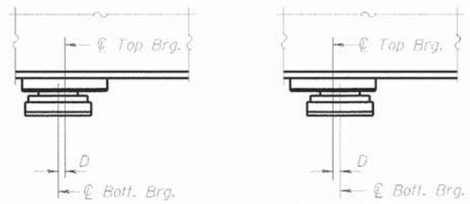
SECTION B-B
(Guide Bar omitted for clarity)



BOTTOM BEARING ℄ AND BASE CYLINDER PLAN



TOP BEARING ℄ AND PISTON PLAN



BELOW 50° F. (Move bott. brg. away from fixed brg.)

ABOVE 50° F. (Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D-¼" per each 100° of expansion for every 15° temp. change from the normal temp. of 50° F.

* As alternates to the bolted connection shown, the guide bars may be connected to the top bearing plate by groove welds or the guide bars and top bearing plate may be fabricated as a single piece.

Bearing Data	
Vertical Design Load, Service I	350 K
Total Required Movement	⅜"
Maximum Strength I Design Rotation	0.02 rad.

BILL OF MATERIAL

Item	Unit	Total
HLMR Bearings, Guided Expansion, 350k	Each	12
Anchor Bolts, 1"	Each	48

NOTES:

The Structural Steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270, Grade 50W.

The Bearing Assembly shall be capable of transmitting 20% of the vertical design load as a horizontal force in the direction normal to the guide bars.

Shim plate(s) shall be the full dimension of the bottom bearing plate. Cost of shims is included with HLMR Bearings, Guided Expansion, 350k.

Two ⅛" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of ASTM M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at HLMR Guided Expansion Bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

PLOT DRIVER = IDOT_pdf_150dpi.pltcfg
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
N:\Projects\10L0007\CADD\Struct\Sheet\Final_Plans\0104556-91470-023-EBRG.dgn

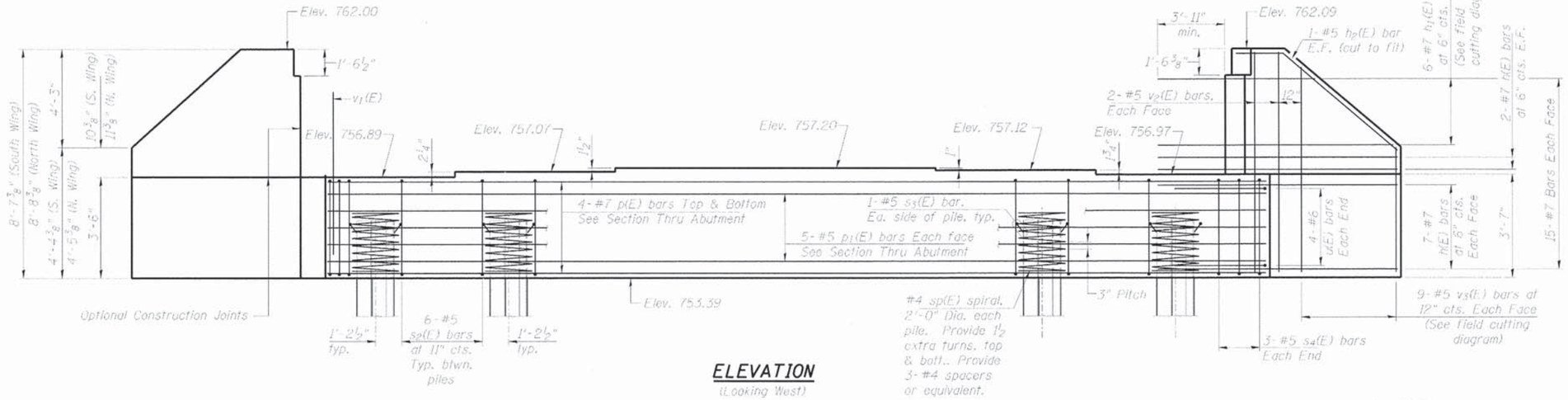
FILE NAME =	USER NAME = JOHNS00944	DESIGNED - JGT	REVISED -
		CHECKED - MNM	REVISED -
	PLOT SCALE =	DRAWN - BWC	REVISED -
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

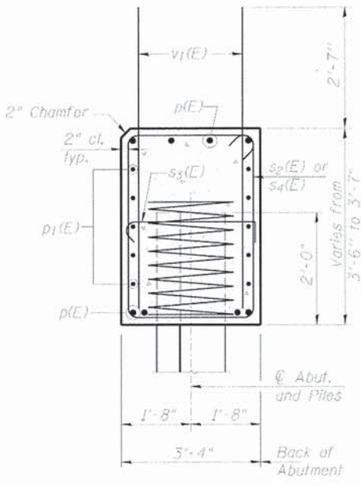
HLMR GUIDED EXPANSION BEARING DETAILS
STRUCTURE NUMBER 010-4556
SHEET NO. 23 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	69
		CONTRACT NO. 91470		
		ILLINOIS FED. AID PROJECT		

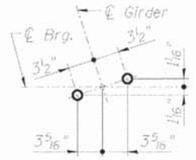
Notes:
Pour stops monolithically with cap.



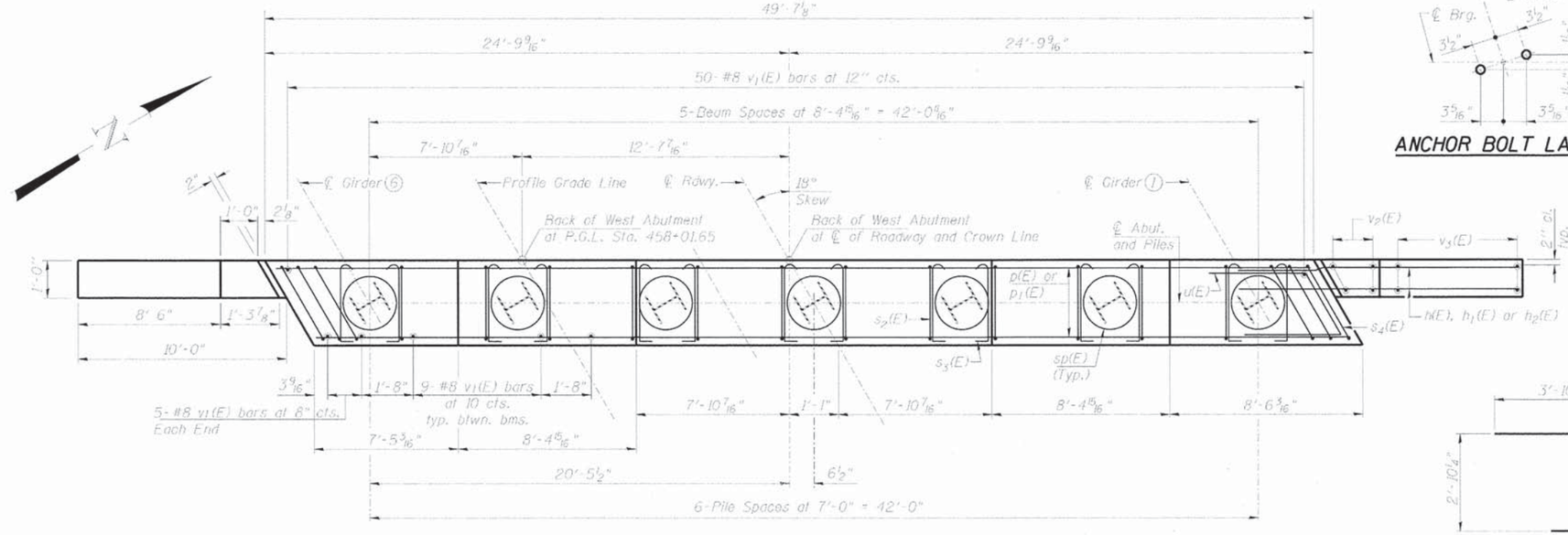
ELEVATION
(Looking West)



SEC. THRU ABUT.
Dimensions at right angles to abutment.



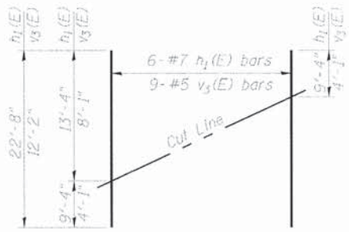
ANCHOR BOLT LAYOUT



PLAN

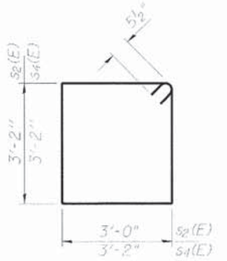
PILE DATA

Type:	HP14x73
Nominal Required Bearing:	400 Kips
Factored Resistance Available:	220 Kips
Est. Length:	86 Ft.
No. Production Piles:	6
No. Test Piles:	1

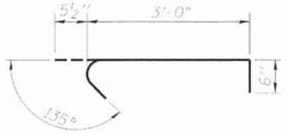


FIELD CUTTING DIAGRAM
Order $h_1(E)$ and $v_3(E)$ full length. Cut as shown and use remainder of bars in opposite face.

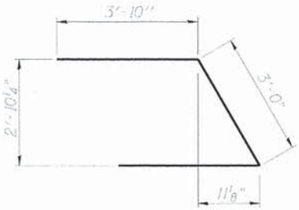
BAR $h_2(E)$



BARS $s_2(E)$ & $s_4(E)$



BAR $s_3(E)$



BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	56	#7	13'-8"	
$h_1(E)$	12	#7	22'-8"	
$h_2(E)$	4	#5	10'-5"	
p(E)	8	#7	49'-3"	
$p_1(E)$	10	#5	49'-3"	
$s_2(E)$	36	#5	13'-3"	
$s_3(E)$	14	#5	4'-0"	
$s_4(E)$	6	#5	13'-7"	
sp(E)	7	#4	2'-0"	
u(E)	8	#6	10'-8"	
$v_1(E)$	105	#8	5'-11"	
$v_2(E)$	8	#5	8'-3"	
$v_3(E)$	18	#5	12'-2"	
Structure Excavation		Cu. Yd.	12.3	
Concrete Structures		Cu. Yd.	27.5	
Reinforcement Bars Epoxy Coated		Pound	5990	
Furnishing Steel Piles HP14x73		Foot	516	
Driving Piles		Foot	516	
Test Pile Steel HP14x73		Each	1	

*Length is height of spiral.
For details of piles see sheet 28 of 32.

PLOT DRIVER = IDOT_pdf_150dpi.pltcfg
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
C:\Projects\DL0007\DL0070\Struct\Sheet\Final_Plans\0104556-91470-024-WABT.dgn

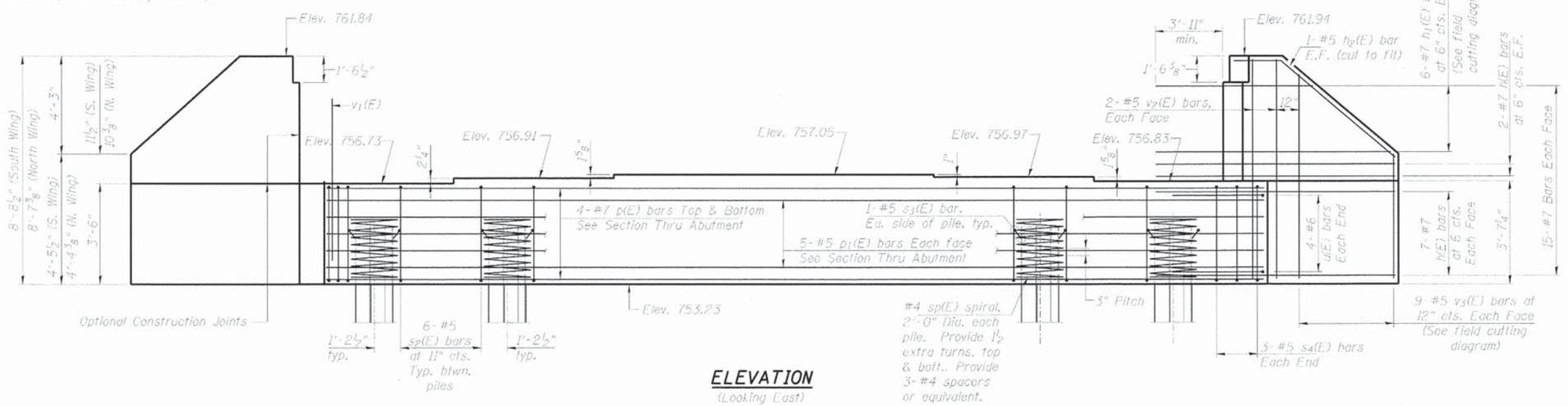
FILE NAME =	USER NAME = JOHNS00944	DESIGNED - JGT	REVISED -
		CHECKED - MNM	REVISED -
	PLOT SCALE =	DRAWN - Rod	REVISED -
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

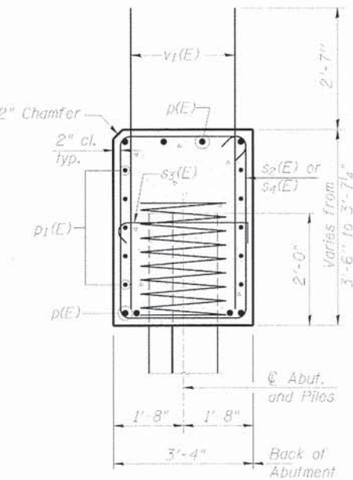
WEST ABUTMENT
STRUCTURE NUMBER 010-4556
SHEET NO. 24 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	70
		CONTRACT NO. 91470		
		ILLINOIS FED. AID PROJECT		

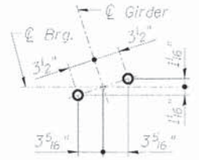
Notes:
Pour steps monolithically with cap.



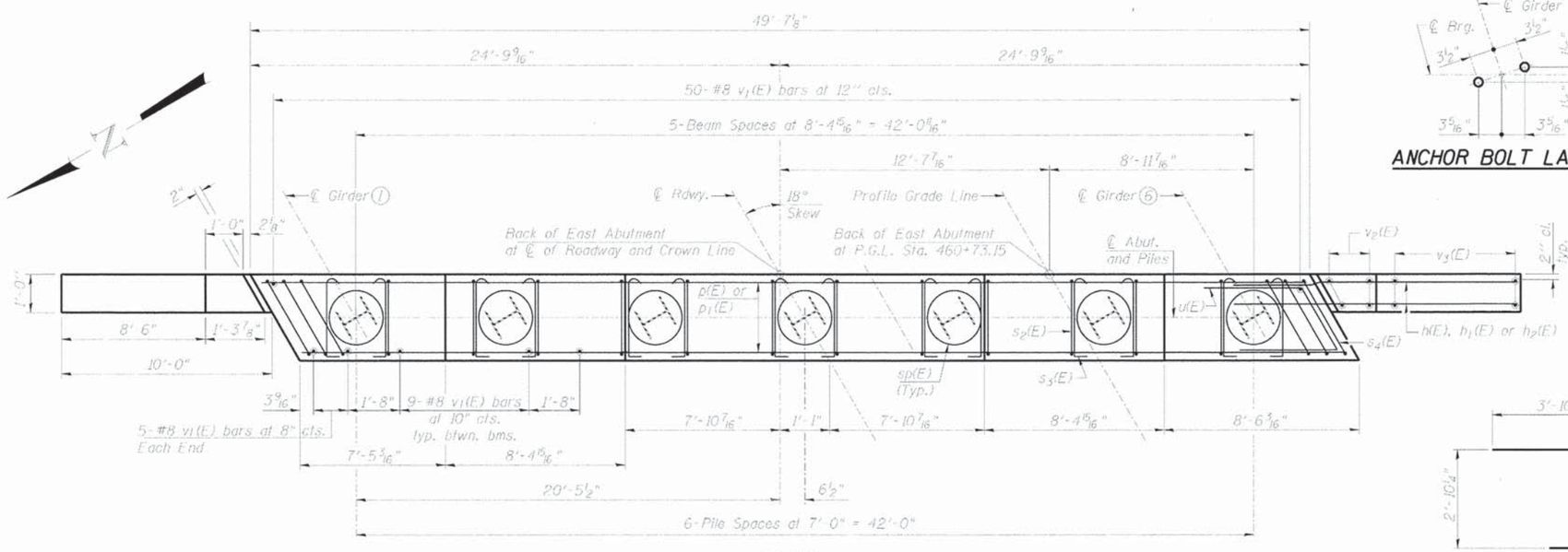
ELEVATION
(Looking East)



SEC. THRU ABUT.
Dimensions at right angles to abutment.



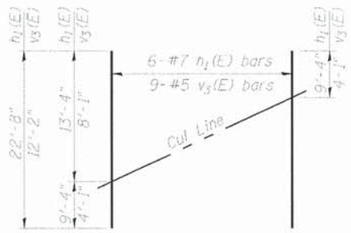
ANCHOR BOLT LAYOUT



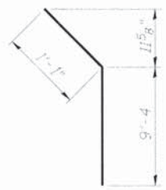
PLAN

PILE DATA

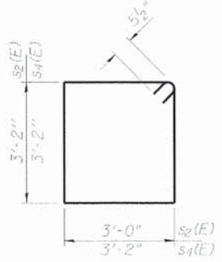
Type:	HP14x73
Nominal Required Bearing:	400 Kips
Factored Resistance Available:	220 Kips
Est. Length:	57 Ft.
No. Production Piles:	6
No. Test Piles:	1



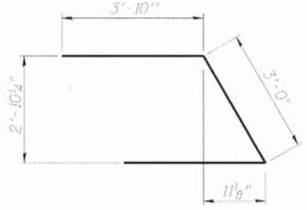
FIELD CUTTING DIAGRAM
Order $h_1(E)$ and $v_3(E)$ full length. Cut as shown and use remainder of bars in opposite face.



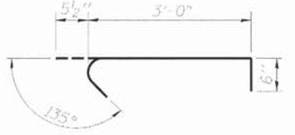
BAR $h_2(E)$



BARS $s_2(E)$ & $s_4(E)$



BAR u(E)



BAR $s_3(E)$

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	36	#7	13'-8"	
$h_1(E)$	12	#7	22'-8"	
$h_2(E)$	4	#5	10'-5"	
p(E)	8	#7	49'-3"	
$p_1(E)$	10	#5	49'-3"	
$s_2(E)$	36	#5	13'-3"	
$s_3(E)$	14	#5	4'-0"	
$s_4(E)$	6	#5	13'-7"	
*sp(E)	7	#4	2'-0"	
u(E)	8	#6	10'-8"	
$v_1(E)$	105	#8	5'-11"	
$v_2(E)$	8	#5	8'-3"	
$v_3(E)$	18	#5	12'-2"	
Structure Excavation		Cu. Yd.	123	
Concrete Structures		Cu. Yd.	27.6	
Reinforcement Bars Epoxy Coated		Pound	5990	
Furnishing Steel Piles HP14x73		Foot	342	
Driving Piles		Foot	342	
Test Pile Steel HP14x73		Each	1	

*Length is height of spiral.
For details of piles see sheet 28 of 32.

PLOT DRIVER = IDOT_pdf_150dpi.pltcfg
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
N:\Opus\IDOT\CADD\Struct\Sheet\Final_Plans\0104556-91470-025-EABT.dgn

FILE NAME =	USER NAME = JOHNS0944	DESIGNED - JGT	REVISED -
		CHECKED - MNM	REVISED -
	PLOT SCALE =	DRAWN - Rod	REVISED -
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

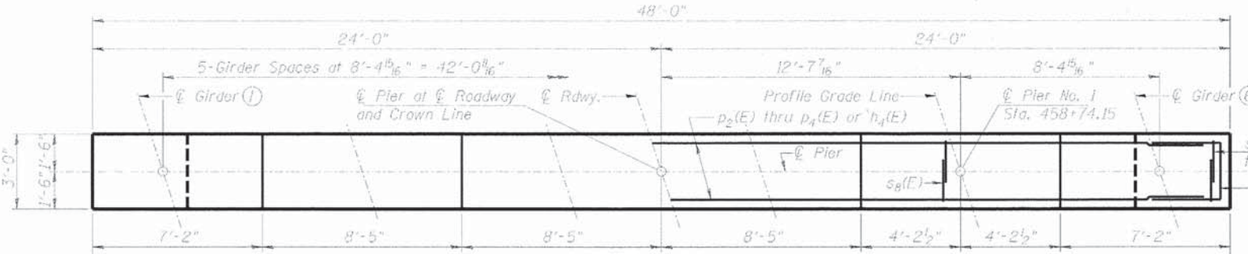
EAST ABUTMENT
STRUCTURE NUMBER 010-4556
SHEET NO. 25 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	71
		CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

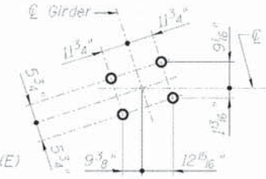
Notes:
Space reinforcement in cap to miss anchor bolts.
Four steps monolithically with cap.
For details of piles, see sheet 28 of 32.

PILE DATA

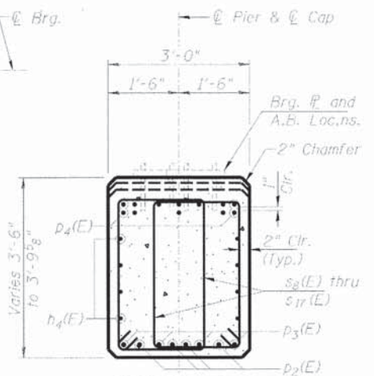
Type:	HP14x73
Nominal Required Bearing:	454 kips
Factored Resistance Available:	250 kips
Est. Length:	57 Feet
No. Production Piles:	17
No. Test Piles:	1



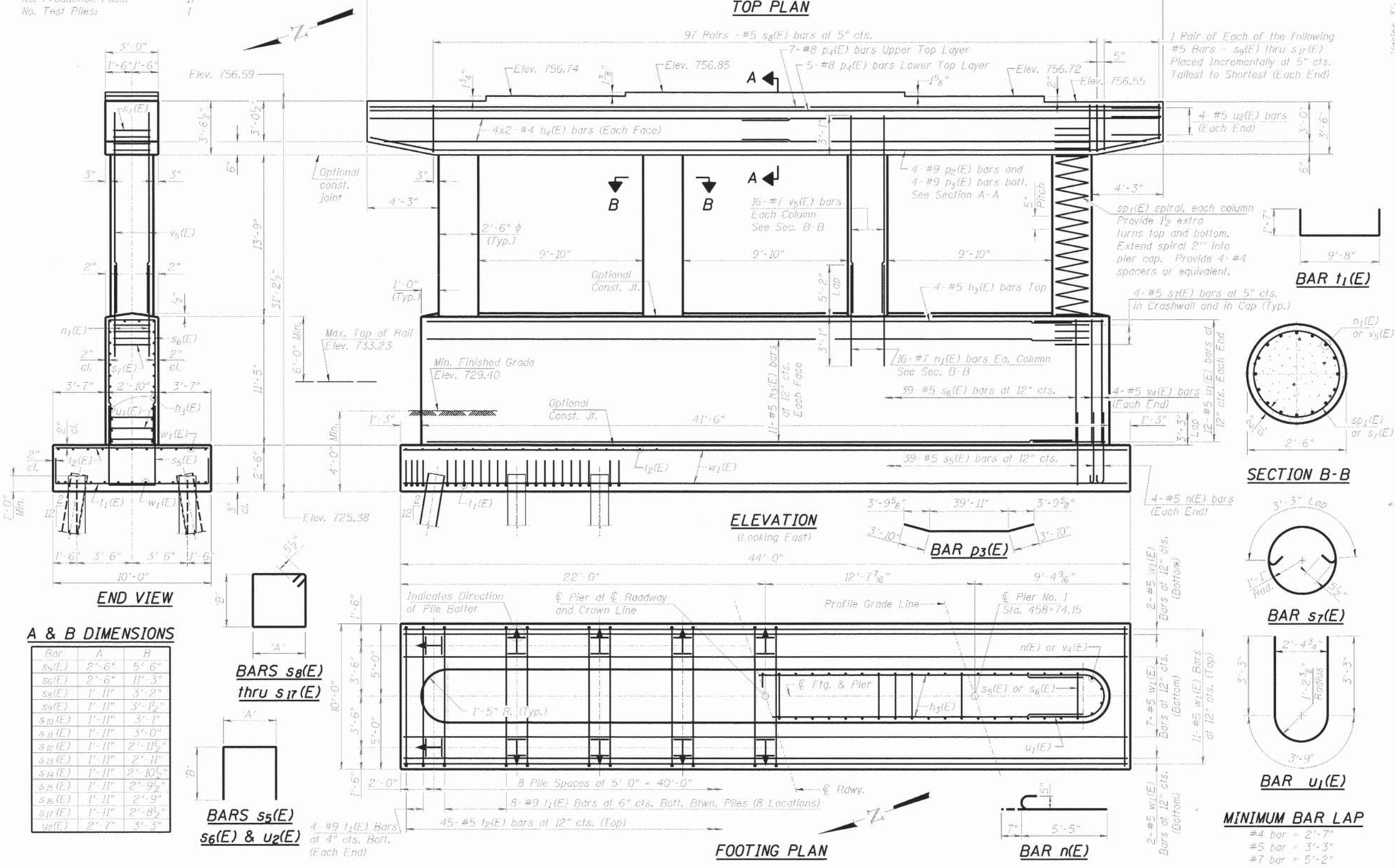
TOP PLAN



ANCHOR BOLT LAYOUT



SECTION A-A



A & B DIMENSIONS

Bar	A	B
$s_4(E)$	2'-6"	5'-6"
$s_6(E)$	2'-6"	11'-3"
$s_8(E)$	1'-11"	3'-2"
$s_9(E)$	1'-11"	3'-11 1/2"
$s_{10}(E)$	1'-11"	3'-1"
$s_{11}(E)$	1'-11"	3'-0"
$s_{12}(E)$	1'-11"	2'-11 1/2"
$s_{13}(E)$	1'-11"	2'-11"
$s_{14}(E)$	1'-11"	2'-10 1/2"
$s_{15}(E)$	1'-11"	2'-9 1/2"
$s_{16}(E)$	1'-11"	2'-9"
$s_{17}(E)$	1'-11"	2'-8 1/2"
$u_2(E)$	2'-7"	3'-3"

BARS $s_8(E)$ thru $s_{17}(E)$

BARS $s_5(E)$ $s_6(E)$ & $u_2(E)$

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_5(E)$	26	#5	38'-8"	
$h_4(E)$	16	#4	25'-2"	
$n(E)$	8	#5	6'-0"	
$n_1(E)$	64	#7	8'-3"	
$p_2(E)$	4	#9	39'-11"	
$p_3(E)$	4	#9	47'-7"	
$p_4(E)$	12	#8	47'-8"	
$s_5(E)$	39	#5	13'-6"	
$s_6(E)$	39	#5	25'-0"	
$s_7(E)$	32	#5	11'-0"	
$s_8(E)$	194	#5	11'-1"	
$s_9(E)$	4	#5	11'-0"	
$s_{10}(E)$	4	#5	10'-11"	
$s_{11}(E)$	4	#5	10'-9"	
$s_{12}(E)$	4	#5	10'-8"	
$s_{13}(E)$	4	#5	10'-7"	
$s_{14}(E)$	4	#5	10'-6"	
$s_{15}(E)$	4	#5	10'-4"	
$s_{16}(E)$	4	#5	10'-3"	
$s_{17}(E)$	4	#5	10'-2"	
$sp_1(E)$	4	#5	13'-11"	**
$t_1(E)$	72	#3	12'-10"	
$t_2(E)$	45	#5	9'-8"	
$u_1(E)$	24	#5	10'-3"	
$u_2(E)$	8	#5	9'-1"	
$v_4(E)$	8	#5	11'-3"	
$v_5(E)$	64	#7	16'-10"	
$w_1(E)$	22	#5	43'-8"	

Structure Excavation	Cu. Yd.	100
Concrete Structures	Cu. Yd.	119.2
Reinforcement Bars, Epoxy Coated	Pound	18060
Furnishing Steel Piles HP14x73	Foot	969
Driving Piles	Foot	969
Test Pile Steel HP14x73	Each	1

** Length is height of spiral.
Bars indicated thus 4 x 2 - #4 etc. indicates 4 lines of bars with 2 lengths per line.

MINIMUM BAR LAP

#4 bar = 2'-7"
#5 bar = 3'-3"
#7 bar = 5'-2"

PLOT DRIVER = IDOT_pdf_1504pi.pltcfg
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
K:\Opns\IL6007\CAD\Struct\Sheet\Final_Plans\0104556-91470-026-PIR1.dgn

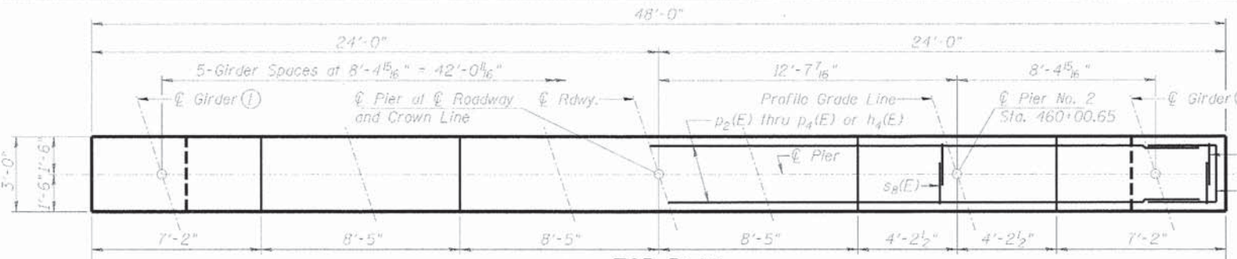
FILE NAME =	USER NAME = JOHNS00944	DESIGNED - JGT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER NUMBER 1 STRUCTURE NUMBER 010-4556
		CHECKED - MNM	REVISED -		
	PLOT SCALE =	DRAWN - Rod	REVISED -		SHEET NO. 26 OF 32 SHEETS
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	72
		CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

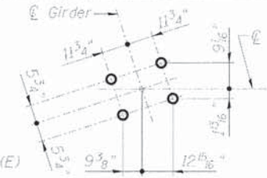
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see sheet 28 of 32.

PILE DATA

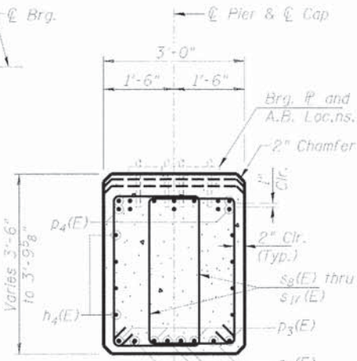
Type:	HP14x73
Nominal Required Bearing:	454 kips
Factored Resistance Available:	250 kips
Est. Length:	55 Feet
No. Production Piles:	17
No. Test Piles:	1



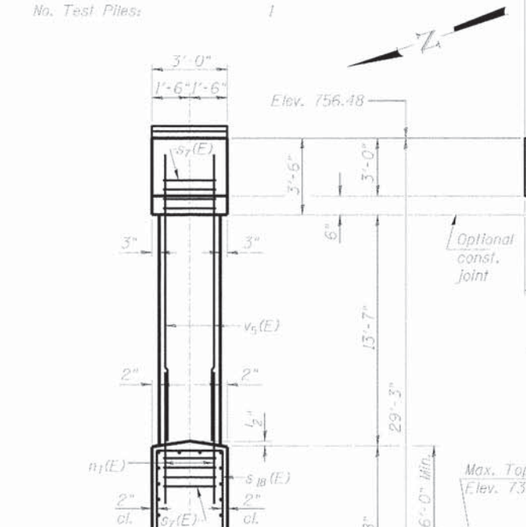
TOP PLAN



ANCHOR BOLT LAYOUT

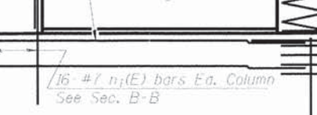


SECTION A-A

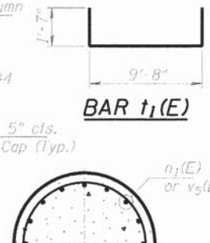


END VIEW

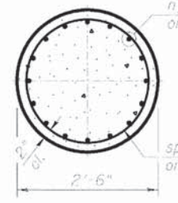
ELEVATION
(Looking East)



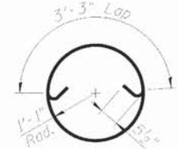
BAR $p_3(E)$



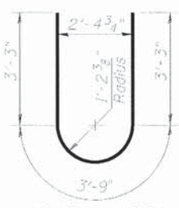
BAR $t_1(E)$



SECTION B-B



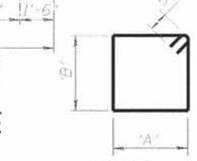
BAR $s_7(E)$



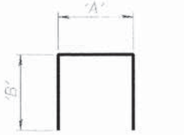
BAR $u_1(E)$

A & B DIMENSIONS

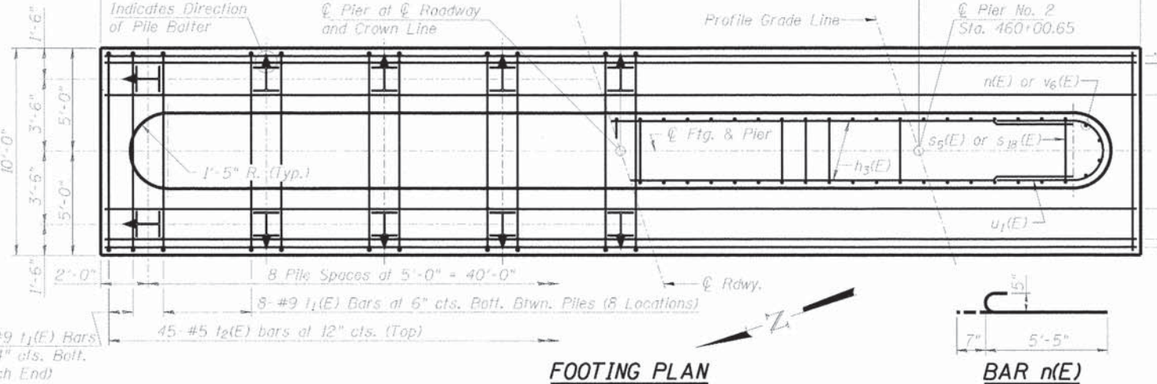
Bar	A	B
$s_4(E)$	2'-6"	5'-6"
$s_6(E)$	1'-11"	3'-2"
$s_9(E)$	1'-11"	3'-1½"
$s_{10}(E)$	1'-11"	3'-1"
$s_{11}(E)$	1'-11"	3'-0"
$s_{12}(E)$	1'-11"	2'-11½"
$s_{13}(E)$	1'-11"	2'-11"
$s_{14}(E)$	1'-11"	2'-10½"
$s_{15}(E)$	1'-11"	2'-9½"
$s_{16}(E)$	1'-11"	2'-9"
$s_{17}(E)$	1'-11"	2'-8½"
$s_{18}(E)$	2'-6"	9'-6"
$u_2(E)$	2'-7"	3'-3"



BARS $s_8(E)$ thru $s_{17}(E)$



BARS $s_5(E)$ $s_{18}(E)$ & $u_2(E)$



FOOTING PLAN

BAR $n(E)$

MINIMUM BAR LAP

#4 bar = 2'-7"
#5 bar = 3'-3"
#7 bar = 5'-2"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_3(E)$	24	#5	38' 8"	
$h_4(E)$	16	#4	25' 2"	
$n(E)$	8	#5	6'-0"	
$n_1(E)$	64	#7	8'-3"	
$p_2(E)$	4	#9	39' 11"	
$p_3(F)$	4	#9	47'-7"	
$p_4(F)$	12	#8	47'-8"	
$s_5(E)$	39	#5	13'-6"	
$s_7(E)$	32	#5	11'-0"	
$s_8(E)$	194	#5	11'-1"	
$s_9(E)$	4	#5	11'-0"	
$s_{10}(E)$	4	#5	10'-11"	
$s_{11}(E)$	4	#5	10'-9"	
$s_{12}(E)$	4	#5	10'-8"	
$s_{13}(E)$	4	#5	10'-7"	
$s_{14}(E)$	4	#5	10'-6"	
$s_{15}(E)$	4	#5	10'-4"	
$s_{16}(E)$	4	#5	10'-3"	
$s_{17}(E)$	4	#5	10'-2"	
$s_{18}(E)$	39	#5	21'-6"	
$sp_1(E)$	4	#5	13'-11"	**
$t_1(E)$	72	#9	12'-10"	
$t_2(E)$	45	#5	9'-8"	
$u_1(E)$	22	#5	10'-3"	
$u_2(E)$	8	#5	9'-1"	
$v_5(E)$	64	#7	16'-10"	
$v_6(E)$	8	#5	9'-6"	
$w_1(E)$	22	#5	43'-8"	

Structure Excavation	Cu. Yd.	101
Concrete Structures	Cu. Yd.	111.6
Reinforcement Bars, Epoxy Coated	Pound	17800
Furnishing Steel Piles HP14x73	Foot	935
Driving Piles	Foot	935
Test Pile Steel HP14x73	Each	1

** Length is height of spiral.
Bars indicated thus 4 x 2-#4 etc. indicates 4 lines of bars with 2 lengths per line.

HANSON

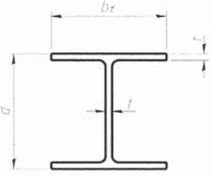
PLOT DRIVER = IDOT_pdf_150dpi.pltcfg
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
Z:\Vplots\10L0007\CADD\Struct\Sheet\Final_Plans\0104556-91470-027-PR2.dgn

FILE NAME =	USER NAME = JOHNS00944	DESIGNED - JGT	REVISED -
		CHECKED - MNM	REVISED -
	PLOT SCALE =	DRAWN - Rod	REVISED -
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER NUMBER 2
STRUCTURE NUMBER 010-4556
SHEET NO. 27 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	73
		CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



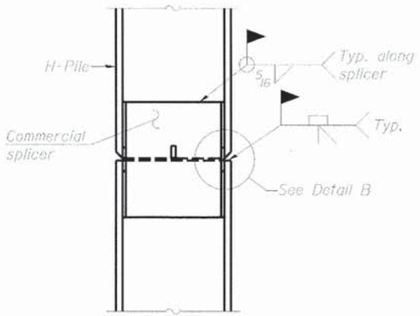
STEEL PILE TABLE

Designation	Depth d	Flange width b_f	Web and Flange thickness t	Encasement diameter A
HP 14x117	$14\frac{1}{4}''$	$14\frac{7}{8}''$	$\frac{15}{16}''$	30''
x102	14''	$14\frac{3}{4}''$	$\frac{11}{16}''$	30''
x89	$13\frac{7}{8}''$	$14\frac{3}{4}''$	$\frac{5}{8}''$	30''
x73	$13\frac{5}{8}''$	$14\frac{5}{8}''$	$\frac{1}{2}''$	30''
HP 12x84	$12\frac{1}{4}''$	$12\frac{1}{4}''$	$\frac{11}{16}''$	24''
x74	$12\frac{1}{8}''$	$12\frac{1}{4}''$	$\frac{5}{8}''$	24''
x63	12''	$12\frac{1}{8}''$	$\frac{1}{2}''$	24''
x53	$11\frac{3}{4}''$	12''	$\frac{7}{16}''$	24''
HP 10x57	10''	$10\frac{1}{4}''$	$\frac{9}{16}''$	24''
x42	$9\frac{3}{4}''$	$10\frac{1}{8}''$	$\frac{7}{16}''$	24''
HP 8x36	8''	$8\frac{1}{8}''$	$\frac{7}{16}''$	18''

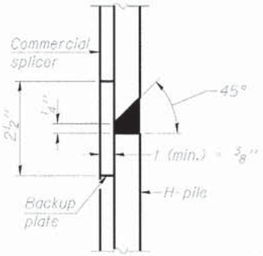
ELEVATION

DETAIL A

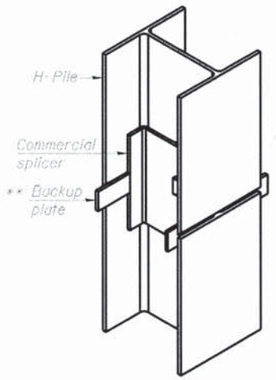
H-PILE SHOE ATTACHMENT



ELEVATION

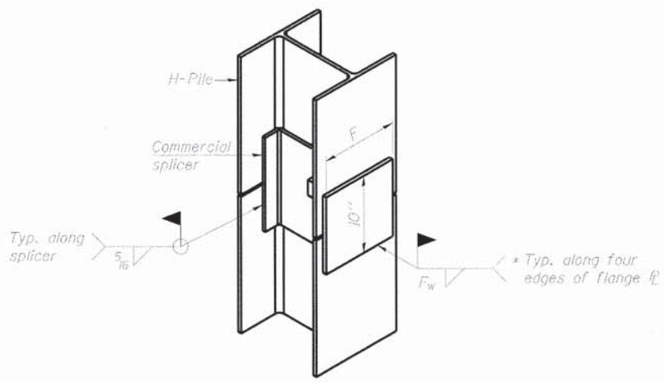


DETAIL "B"



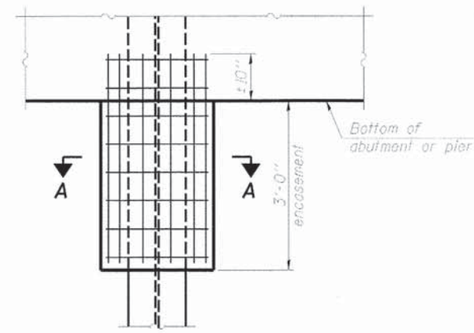
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE

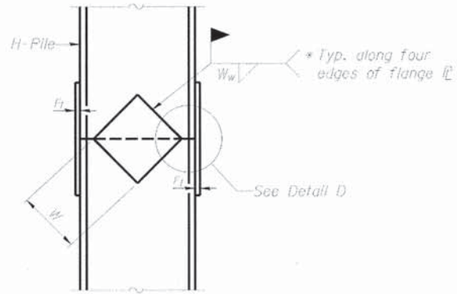


ISOMETRIC VIEW

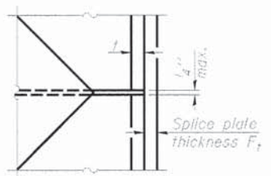
WELDED COMMERCIAL SPLICE ALTERNATE



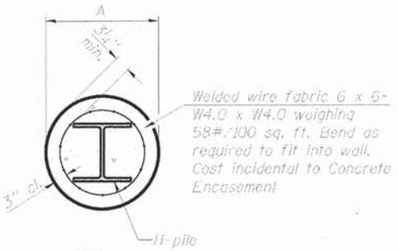
ELEVATION



ELEVATION



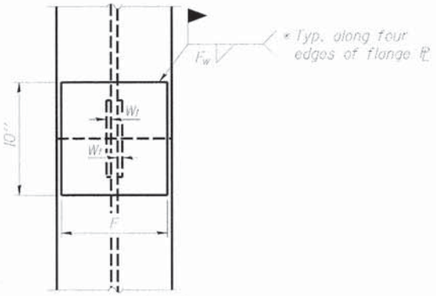
DETAIL D



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

SECTION A-A

PILE ENCASEMENT



END VIEW

Designation	F	F_1	F_w	W	W_t	W_w
HP 14x117	$12\frac{1}{2}''$	1''	$\frac{7}{8}''$	$7\frac{3}{4}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x102	$12\frac{1}{2}''$	$\frac{7}{8}''$	$\frac{3}{4}''$	$7\frac{3}{4}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x89	$12\frac{1}{2}''$	$\frac{3}{4}''$	$\frac{11}{16}''$	$7\frac{3}{4}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x73	$12\frac{1}{2}''$	$\frac{5}{8}''$	$\frac{9}{16}''$	$7\frac{3}{4}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
HP 12x84	10''	$\frac{7}{8}''$	$\frac{11}{16}''$	$6\frac{1}{2}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x74	10''	$\frac{7}{8}''$	$\frac{11}{16}''$	$6\frac{1}{2}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x63	10''	$\frac{5}{8}''$	$\frac{1}{2}''$	$6\frac{1}{2}''$	$\frac{1}{2}''$	$\frac{3}{8}''$
x53	10''	$\frac{5}{8}''$	$\frac{1}{2}''$	$6\frac{1}{2}''$	$\frac{1}{2}''$	$\frac{3}{8}''$
HP 10x57	8''	$\frac{3}{4}''$	$\frac{9}{16}''$	$5\frac{1}{4}''$	$\frac{1}{2}''$	$\frac{3}{8}''$
x42	8''	$\frac{5}{8}''$	$\frac{9}{16}''$	$5\frac{1}{4}''$	$\frac{1}{2}''$	$\frac{3}{8}''$
HP 8x36	7''	$\frac{5}{8}''$	$\frac{7}{16}''$	$4\frac{1}{4}''$	$\frac{1}{2}''$	$\frac{3}{8}''$

WELDED PLATE FIELD SPLICE

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

* Interrupt welds ¼" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer ($\frac{5}{16}$" min.).

F-HP

1-27-12

FILE NAME =	USER NAME = JOHNS0944	DESIGNED - JGT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HP PILE DETAILS STRUCTURE NUMBER 010-4556 SHEET NO. 28 OF 32 SHEETS
		CHECKED - MNM	REVISED -		
	PLOT SCALE =	DRAWN - BWC	REVISED -		
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	74
		CONTRACT NO. 91470		
		ILLINOIS FED. AID PROJECT		

PLOT DRIVER = IDOT_pdf_1500p.ptc\fg
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
N:\Opss\CO3007\CAD\Struct\Sheet\Final_Plans\0104556-91470-028-HPIL.dgn

BRIDGE FOUNDATION SOIL BORING LOG

MET Midwest Engineering and Testing, Inc.

Route: Olympian Drive
Section: 99-00259-00-ES
County: Champaign
Structure No.: 010-4556 (Bridge over ICRC Railroad)
Station: 458+00.75C
Offset: 38.26ft N. of C.L.

Boring: SB-1
Page: Page 1 of 2
Date of Boring: December 14, 2010
Drilled By: Zach Wilcoxen
Checked By: Robert Hahn, P.E.
MET Project No: 14-13014

Ground Water Elevation:
Drilling: 711.4 (-17)
Completion:
Ground Surface Elevation: 728.4 ft

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	Description
	- -		42	Backfilled CLAY (CH), topsoil
	7 7 8	1.5P	25	Brown and gray silty CLAY (CL)
5				
	1 0 1	1.0B	28	Dc = 92 PCF
	3 2 2	-	33	Brown fine to medium SAND (SP)
10				
	5 3 2	1.7	20	Dc = 101 PCF
				Gray silty CLAY with sand and small gravel (CL-ML), Till
	7 12	2.4	20	Dc = 113 PCF
15				
	2 2 3	-	17	Gray clayey SAND (SC)
	7 8 8	0.8B	19	Dc = 117 PCF Gray clayey SILT (ML)
20				
	2 3 3	2.4B	15	Dc = 128 PCF Gray silty CLAY with sand and small gravel (CL-ML), Till
	3 4 6	3.2B	13	Dc = 129 PCF
25				
	3 3 2	3.0B	18	Dc = 120 PCF
	1 1 1	0.3P	15	
30				Dd = 120 PCF
	2 2 2	2.4B	14	
				Gray silty CLAY with sand and small gravel (CL-ML), Till
35				
	3 3 3	2.2B	14	Dd = 126 PCF
40				
	5 6 7	-	13	
				Gray medium to coarse SAND (SP)
45				
	4 13 14	-	4	
50				
	12 21 19		9	

N = Standard Penetration Test (SPT) – Sum of last two blow values in sample
MC= Moisture Content – Percent of dry weight
Q_u = Unconfined Compressive Strength – tons per square foot (tsf)

Type Failure: Grab Test
Qu test: B-Burge, S-Sleeve, A-Penetrometer

BRIDGE FOUNDATION SOIL BORING LOG

MET Midwest Engineering and Testing, Inc.

Route: Olympian Drive
Section: 99-00259-00-ES
County: Champaign
Structure No.: 010-4556 (Bridge over ICRC Railroad)
Station: 458+00.75C
Offset: 38.26ft N. of C.L.

Boring: SB-1
Page: Page 2 of 2
Date of Boring: December 14, 2010
Drilled By: Zach Wilcoxen
Checked By: Robert Hahn, P.E.
MET Project No: 14-13014

Ground Water Elevation:
Drilling: 711.4 (-17)
Completion:
Ground Surface Elevation: 728.4 ft

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	Description
55				
	19 20 10	-	17	Gray medium to coarse SAND (SP)
60				
	20 10 10	1.3P	12	Gray silty CLAY with sand and small gravel (CL-ML), Till
65				
	32 37 50	-	17	Gray fine SAND (SP)
70				
	35 39 36	0.4B	6	Gray silty CLAY with sand and small gravel (CL-ML), Till Dd = 121 PCF
				End of Boring: 71.0 Ft.
75				
80				
85				
90				
95				
100				
105				

N = Standard Penetration Test (SPT) – Sum of last two blow values in sample
MC= Moisture Content – Percent of dry weight
Q_u = Unconfined Compressive Strength – tons per square foot (tsf)

Type Failure: Grab Test
Qu test: B-Burge, S-Sleeve, A-Penetrometer

PLOT DRIVER = IDOT_pdf_150dpi_plot9_
01\21\2014 PENTABLE = IDOT_StructTBL
MODEL NAME = Default
A:\Optra\10L0007\CADD\Struct\Sheet\Final_Plans\0104556-91470-029-B001.dgn

FILE NAME =	USER NAME = JOHNS00944	DESIGNED - JGT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS (Sheet 1 OF 4) STRUCTURE NUMBER 010-4556 SHEET NO. 29 OF 32 SHEETS
		CHECKED - MNM	REVISED -		
	PLOT SCALE =	DRAWN - BWC	REVISED -		
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	75
		CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

BRIDGE FOUNDATION SOIL BORING LOG

MET Midwest Engineering and Testing, Inc.

Route: Olympian Drive
Section: 99-00259-00-EG
County: Champaign
Structure No.: 010-4556 (Bridge over ICRC Railroad)
Station: 458+84.047
Offset: 3.265' N. of C.L.

Boring: SB-2
Page: Page 1 of 2
Date of Boring: January 7, 2011
Drilled By: Zach W coxe
Checked By: Robert Hahn, P.E.
MET Project No: 14-C0014

Ground Water Elevation:
Drilling: 707.2' (-23')
at completion Flugoe @ -7.5'
Ground Surface Elevation: 730.2 ft

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)
	-	-	22				
10" Dark gray silty CLAY (CH) Topsoil				Dd = 142 PCF	3 4 5	0.8 S	19
Dd = 87 PCF	4 5 6	3.0B	23	30			
Dark Brown silty CLAY with small gravel (CL); Possible Fill				Dd = 129 PCF	4 6 7	4.4S	10
5	4 3 3	4.3P	20	Gray silty CLAY with sand and small gravel (CL-ML); Till			
Dd = 91 PCF Brown and gray silty CLAY (CL)	2 2 2	1.0B	20	35			
10				Dd = 125 PCF	4 7 8	3.6S	11
Dd = 111 PCF Brown and gray sandy CLAY (SC)	1 1 2	0.4U	24				
Dd = 117 PCF	1 2 2	1.0B	22	40			
Brown and gray clayey SILT (ML)				Gray medium to coarse SAND (SP)	10 15 20	-	18
15 Dd = 117 PCF	2 1 3	0.4U	24				
Dd = 103 PCF Gray sandy silt (SM)	2 1 3	0.8B	22	45			
20				Dd = 147 PCF Gray clayey SILT (ML)	6 9 14	6.6S	11
Dd = 99 PCF Gray silty CLAY (CL)	2 1 2	0.8B	26				
	3 4 5	-	22	50			
Gray sandy CLAY (SC)				Gray medium to coarse SAND (SP)	6 8 9	-	17
25	1 4 5	4.0P	12				

N - Standard Penetration Test (SPT) – Sum of last two blow values in sample
WC- Moisture Content – Percent of dry weight
Qu- Unconfined Compressive Strength in tons per square foot (tsf)

Type Failure
Qu tes:

B-Buge
S-Shear
A-Penetrometer

BRIDGE FOUNDATION SOIL BORING LOG

MET Midwest Engineering and Testing, Inc.

Route: Olympian Drive
Section: 99-00259-00-EG
County: Champaign
Structure No.: 010-4556 (Bridge over ICRC Railroad)
Station: 458+84.047
Offset: 3.265' N. of C.L.

Boring: SB-2
Page: Page 2 of 2
Date of Boring: January 7, 2011
Drilled By: Zach W coxe
Checked By: Robert Hahn, P.E.
MET Project No: 14-C0014

Ground Water Elevation:
Drilling: 707.2' (-23')
Completion: Plugged @ -7.5'
Ground Surface Elevation: 730.2 ft

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)
				80			
56							
Dd = 135 PCF	5 6 9	3.6U	17				
				85			
60							
Dd = 133 PCF	5 8 12	4.0B	12				
Gray silty CLAY with sand and small gravel (CL-ML); Till							
				90			
69							
Dd = 135 PCF	7 9 14	4.4B	12				
				95			
70							
Dd = 135 PCF	6 9 16	3.0B	12				
End of Boring: 71.0 Ft.				100			
75							
				105			

N - Standard Penetration Test (SPT) – Sum of last two blow values in sample
WC- Moisture Content – Percent of dry weight
Qu- Unconfined Compressive Strength in tons per square foot (tsf)

Type Failure
Qu tes:

B-Buge
S-Shear
A-Penetrometer

FILE NAME =	USER NAME = JOHNS00944	DESIGNED - JGT	REVISED -
		CHECKED - MNM	REVISED -
	PLOT SCALE =	DRAWN - BWC	REVISED -
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS (Sheet 2 OF 4)
STRUCTURE NUMBER 010-4556
SHEET NO. 30 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	76
			CONTRACT NO. 91470	
		ILLINOIS FED. AID PROJECT		

BRIDGE FOUNDATION SOIL BORING LOG

MET Midwest Engineering and Testing, Inc.

Route: Clymalia Drive
Section: 99-00259-00-ES
County: Champaign
Structure No.: 010-4556 (Bridge over ICRC Railroad)
Station: 459+99.305
Offset: 33.899' N. of C.L.

Boring: SB-3
Page: Page 1 of 2
Date of Boring: January 6, 2011
Drilled By: Zach Weaver
Checked By: Robert Hahn, P.E.
MET Project No: 11-C0014

Ground Water Elevation:
Drilling: 668.1' (-85')
Completion: Flagged @ ~10.0'
Ground Surface Elevation: 731.1 ft

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	
	-	-	10	
	2 2 1		22	Black silty CLAY with gravel and cinders (CL-GL) Fill
5	2 1 1		18	
	2 3 4	2.9B	25	Dd = 94 PCF Brown and gray silty CLAY (CL)
10	2 2 2	1.5B	26	Dd = 88 PCF
	2 1 3	2.0B	25	Dd = 94 PCF Brown and gray clayey SILT (ML)
15	2 2 3	1.7B	22	Dd = 104 PCF Gray silty CLAY (CL)
	2 3 5	2.4B	15	Dd = 123 PCF
20	4 6 8	2.2B	12	Dd = 111 PCF Gray silty CLAY with sand and small gravel (CL-ML), Till
	4 7 9	6.3B	11	Dd = 122 PCF
25	4 5 8	7.1B	11	Dd = 122 PCF

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	
				Dd = 123 PCF Gray silty CLAY with sand and small gravel (CL-ML), Till
30	4 5 7	6.1B	11	Dd = 122 PCF
	4 5 7	5.5B	11	
35	4 3 4	1.2B	9	Gray sandy CLAY (SC)
40	5 8 12	-	H	
45	4 5 7	2.6B	14	Dd = 127 PCF Gray silty CLAY with sand and small gravel (CL-ML), Till
50	6 10 15	4.9B	11	Dd = 128 PCF

N - Standard Penetration Test (SPT) - Number of last two blow values in sample
WC - Moisture Content - Percent of dry weight
Qu - Unconfined Compressive Strength in tons per square foot (tsf)

Type Failure: U-Undrained, S-Shear, A-Penetrometer
Qu tsf:

BRIDGE FOUNDATION SOIL BORING LOG

MET Midwest Engineering and Testing, Inc.

Route: Clymalia Drive
Section: 99-00259-00-ES
County: Champaign
Structure No.: 010-4556 (Bridge over ICRC Railroad)
Station: 459+99.305
Offset: 33.899' N. of C.L.

Boring: SB-3
Page: Page 2 of 2
Date of Boring: January 6, 2011
Drilled By: Zach Weaver
Checked By: Robert Hahn, P.E.
MET Project No: 11-C0014

Ground Water Elevation:
Drilling: 668.1' (-85')
Completion: Flagged @ ~10.0'
Ground Surface Elevation: 731.1 ft

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	
55	8 11 12	4.2B	12	Dd = 131 PCF
60	4 7 11	4.4B	12	Dd = 127 PCF Gray silty CLAY with sand and small gravel (CL-ML), Till
65	11 25 36	3.7B	12	Dd = 130 PCF
70	10 26 39	11.4B	10	Dd = 135 PCF
75				End of Boring: 71.3 ft.

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)
80			
85			
90			
95			
100			
105			

N - Standard Penetration Test (SPT) - Number of last two blow values in sample
WC - Moisture Content - Percent of dry weight
Qu - Unconfined Compressive Strength in tons per square foot (tsf)

Type Failure: U-Undrained, S-Shear, A-Penetrometer
Qu tsf:

PLOT DRIVER = IDOT_pdf_150dpi.plotfg
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
K:\10jobs\10L0007\L040\Struct\Sheet\Final_Plans\0104556-91470-031-BOR3.dgn

FILE NAME =	USER NAME = JOHNS0944	DESIGNED - JGT	REVISED -
		CHECKED - MNM	REVISED -
	PLOT SCALE =	DRAWN - BWC	REVISED -
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS (Sheet 3 OF 4)
STRUCTURE NUMBER 010-4556
SHEET NO. 31 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	77
			CONTRACT NO. 91470	
		ILLINOIS FED. AID PROJECT		

BRIDGE FOUNDATION SOIL BORING LOG

MET Midwest Engineering and Testing, Inc.

Route: Olympian Drive
Section: 99-00259-00-ES
County: Champaign
Structure No: 010-4556 (Illinois Central RR Railroad)
Station: 461+69.084
Offset: 57.27' N. of C.L.

Boring: SB-4
Page: Page 1 of 2
Date of Boring: December 17, 2010
Drilled By: Zach W coxon
Checked By: Robert Hahn, P.E.
MET Project No: 10-C3014

Ground Water Elevation:
Drilling: 860 ft (-29)
Completion:
Ground Surface Elevation: 726.5 ft

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	
	-		36	Black silty CLAY (CH) Topsoil
	-			
	2			
	3	0.3P	25	Brown and gray silty CLAY (CL)
5	3			
	2			
	2	-	26	
	3			Brown sandy CLAY (SC)
	6	-	17	
10	10			
	3			Dd = 115 PCF
	6	5.8S	19	Gray clayey SILT (ML)
	8			
	3			Dd = 120 PCF
	5	5.4B	12	
	7			
15				
	3			Dd = 120 PCF
	4	4.8B	12	
	6			
	3			Dd = 120 PCF
	4	6.0B	12	Gray silty CLAY with sand and small gravel (CL-ML), till
20	5			
	3			
	4	1.3P	12	
	6			
	3			Dd = 120 PCF
	4	5.4B	11	
25	6			
	4			Dd = 105 PCF
	7	5.4S	20	Gray clayey SILT (ML)

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	
	3			Dd = 124 PCF
	3	2.8S	11	
	5			Gray silty CLAY with sand and small gravel (CL-ML), till
30				
	3			Dd = 121 PCF
	3	3.0S	11	
	6			
35				
	10			Dd = 114 PCF
	11	1.9S	19	Gray clayey SILT (ML)
	11			
40				
	3			
	5		13	
	12			
				Gray coarse SAND (SP)
45				
	9			
	12		19	
	15			
50				
	7			
	15	-	19	
	21			

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
WC - Moisture Content - Percent of dry weight
Qu - Unconfined Compressive Strength - tons per square foot (tsf)

Type Failure
Qu test:
B-Bulge
S-Shear
P-Penetrometer

BRIDGE FOUNDATION SOIL BORING LOG

MET Midwest Engineering and Testing, Inc.

Route: Olympian Drive
Section: 99-00259-00-ES
County: Champaign
Structure No: 010-4556 (Illinois Central RR Railroad)
Station: 461+69.084
Offset: 57.27' N. of C.L.

Boring: SB-4
Page: Page 2 of 2
Date of Boring: December 17, 2010
Drilled By: Zach W coxon
Checked By: Robert Hahn, P.E.
MET Project No: 10-C3014

Ground Water Elevation:
Drilling: 860 ft (-29)
Completion:
Ground Surface Elevation: 726.5 ft

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	
55				
	11			Gray coarse SAND (SP)
	17	-	14	
	34			
60				
	19			Dd = 129 PCF
	29	4.0B	11	
	36			
				Gray silty CLAY with sand and small gravel (CL-ML), till
65				
	17			
	29	4.0P	12	
	37			
70				
	13			Dd = 138 PCF
	28	2.8B	13	
	34			
				End of Boring, 71.5 FL
75				

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	
80				
85				
90				
95				
100				
105				

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
WC - Moisture Content - Percent of dry weight
Qu - Unconfined Compressive Strength - tons per square foot (tsf)

Type Failure
Qu test:
B-Bulge
S-Shear
P-Penetrometer

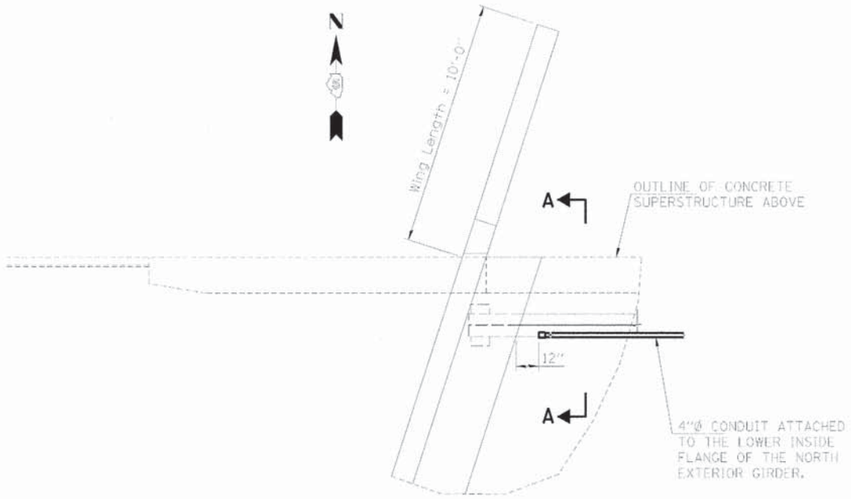
PLOT DRIVER = IDOT_pdf_150dpi.ptf
01\21\2014 PENTABLE = IDOT_Struct.TBL
MODEL NAME = Default
Z:\Opies\10L0007\CADD\Struct\Sheet\Fnd_Plans\0104556-91470-032-BOR4.dgn

FILE NAME =	USER NAME = JOHNS0944	DESIGNED - JGT	REVISED -
		CHECKED - MNM	REVISED -
	PLOT SCALE =	DRAWN - BWC	REVISED -
	PLOT DATE = 01\21\2014	CHECKED - JGT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

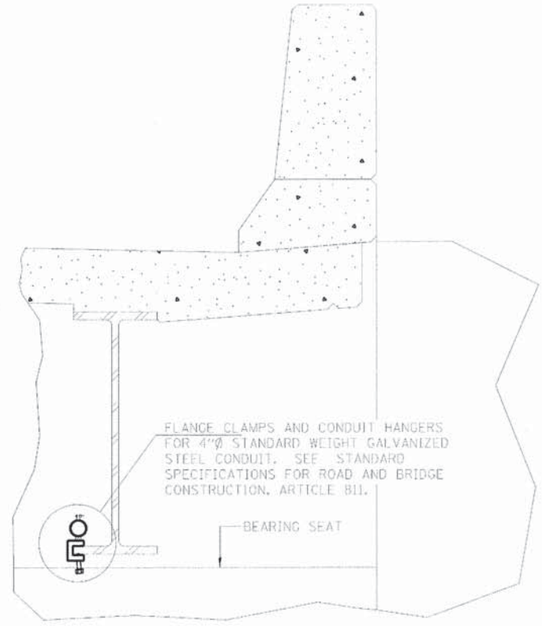
BORING LOGS (Sheet 4 OF 4)
STRUCTURE NUMBER 010-4556
SHEET NO. 32 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	78
		CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



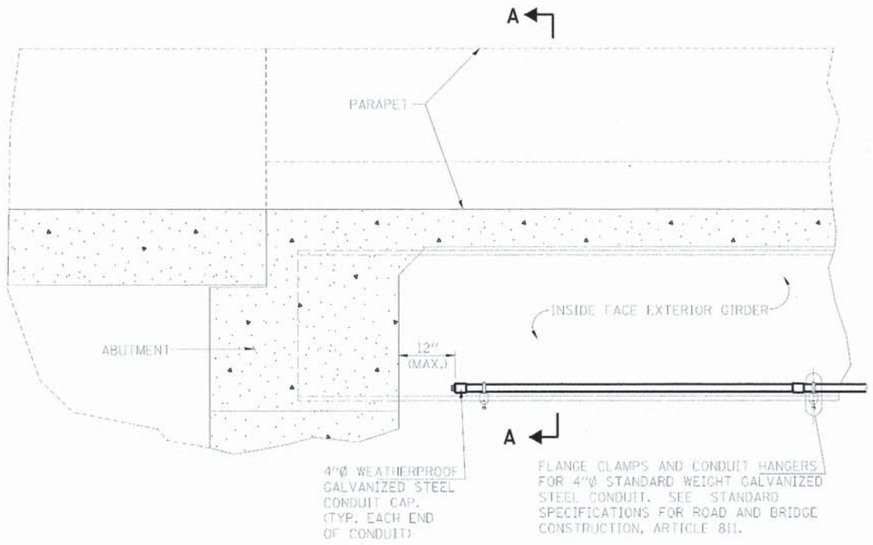
PARTIAL PLAN AT INTEGRAL ABUTMENTS – SKEWED CONDITION

(NORTH END OF WEST ABUTMENT SHOWN)



SECTION A–A

(LOOKING WEST AT THE NORTH END OF WEST ABUTMENT)



PARTIAL LONGITUDINAL INTERIOR SECTION AT INTEGRAL ABUTMENTS

(WEST END OF NORTH EXTERIOR GIRDER)

NOTES

1. THE CONTRACTOR SHALL NOT DRILL ANY HOLES IN THE BEAM, DECK OR SUPERSTRUCTURE OF THE BRIDGE OR WELD TO THE STRUCTURE UNLESS OTHERWISE SPECIFIED.
2. THE 4"Ø GAVANIZED STEEL CAPS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE BID PRICE FOR CONDUIT ATTACHED TO STRUCTURE.

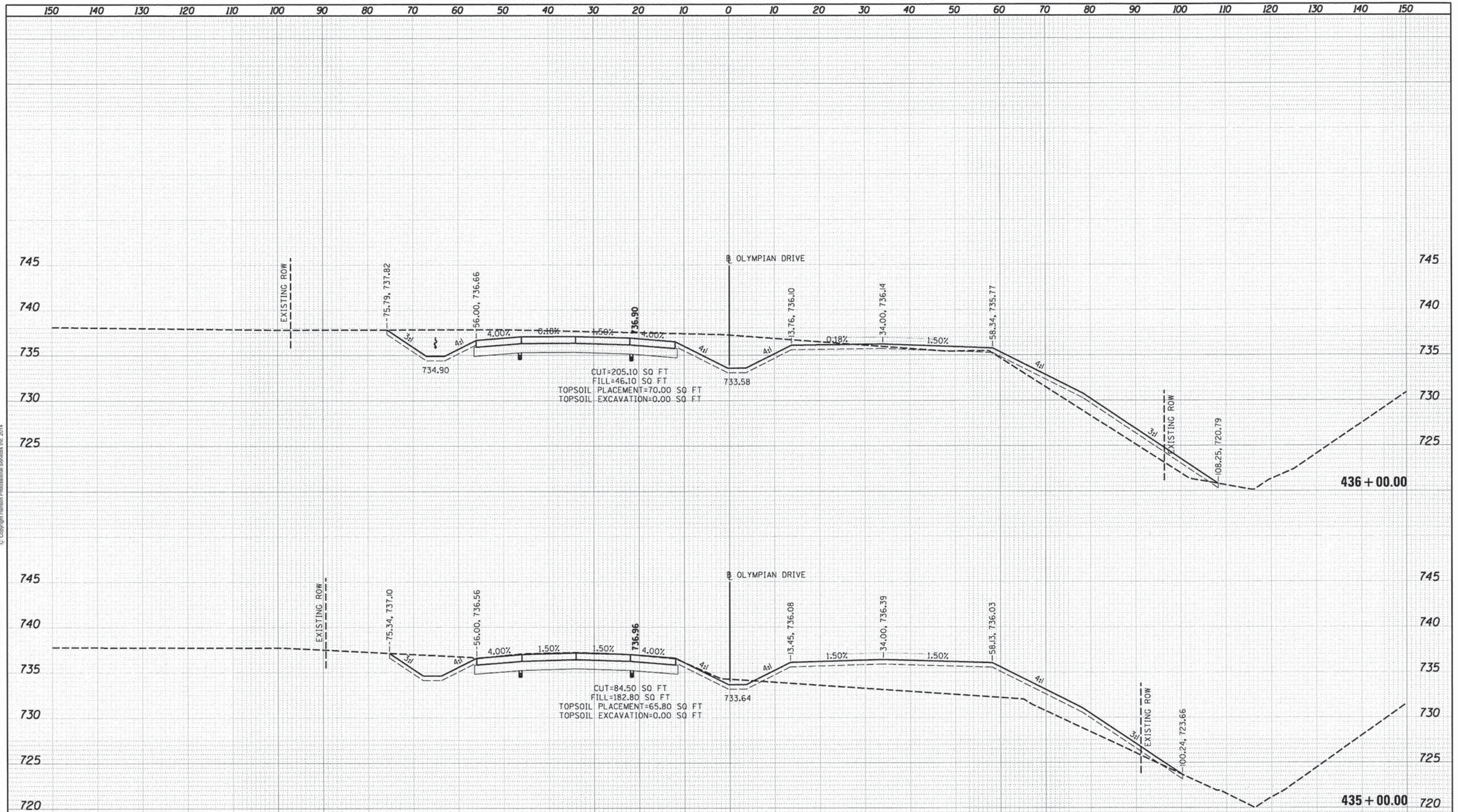
BILL OF MATERIAL

PAY CODE	ITEM	UNIT	QUANTITY
81101000	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., GALVANIZED STEEL	FOOT	263

PLOT DRIVER = I00T_pdf_150dpi.pltcfg
01\21\2014 PENTABLE = I00T_Struct.TBL
MODEL NAME = Default
N:\Opus\16.0007\CADD\Struct\Sheet\Final_Plans\Conduit_Attachment_to_Bridge_Structure.dgn

FILE NAME =	USER NAME = johns00944	DESIGNED - JGT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONDUIT ATTACHED TO STRUCTURE STRUCTURE NUMBER 010–4556		
Default		DRAWN - MNM	REVISED -				
	PLOT SCALE = 0.186667 ft / in.	CHECKED - Rod	REVISED -				
	PLOT DATE = 01\21\2014	DATE - JGT	REVISED -		SCALE: NONE	SHEET OF SHEETS STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	79
		CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



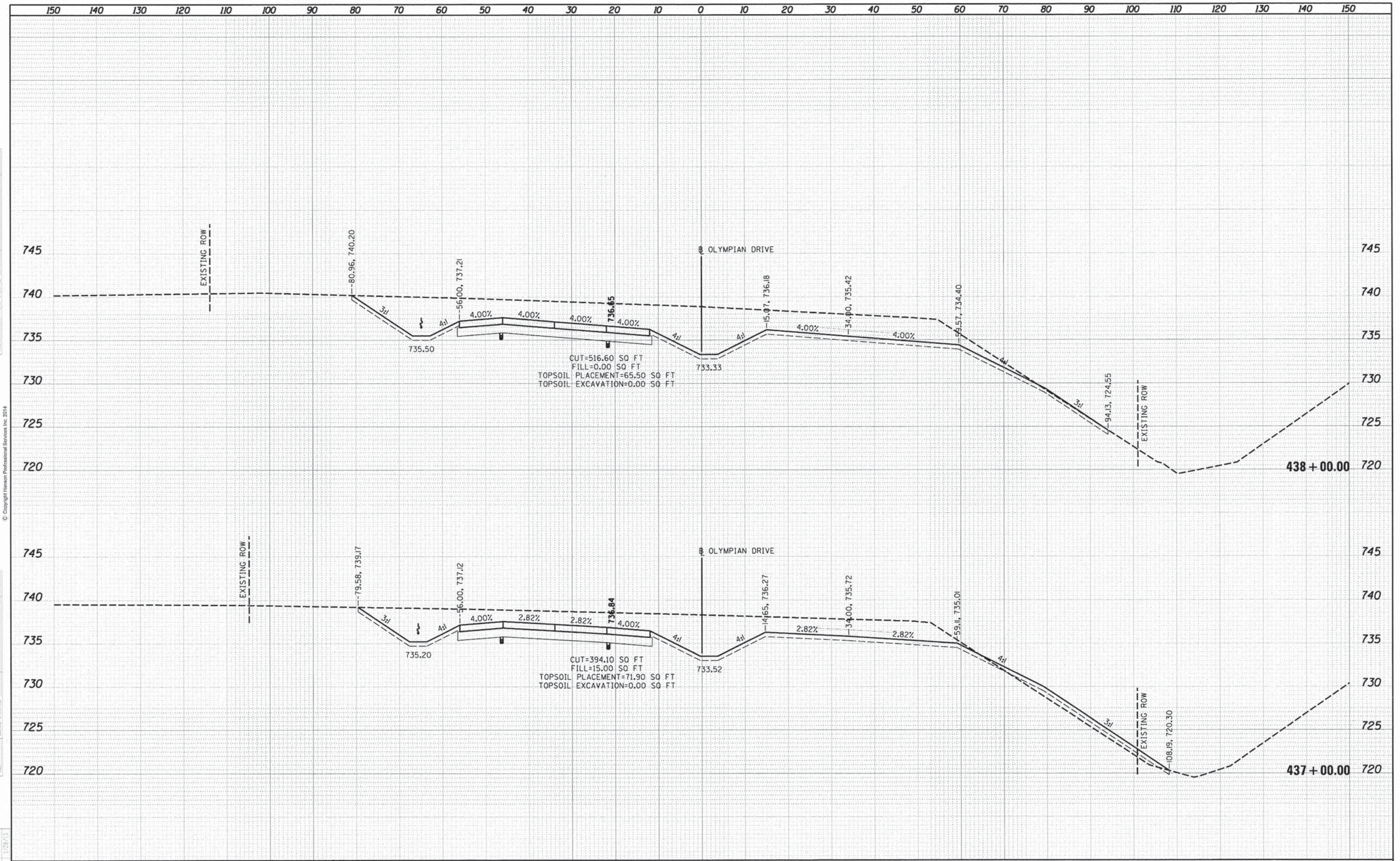
FILE NAME =	USER NAME = johns00944	DESIGNED - M.H.	REVISED -
C:\301\E_XS\dgn		DRAWN - R.S.J.	REVISED -
MODEL NAME:	PLOT SCALE = 20.0000 ' / in.	CHECKED - M.H.	REVISED -
XS_SHEET_temporary_model_name_1	PLOT DATE = 01/21/2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
PROPOSED OLYMPIAN DR. EAST

1" = 10' | SHEET NO. 1 OF 31 SHEETS | STA. 435+00.00 TO STA. 436+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	80
	10L0007	**CONTRACT NO.** 91470		
	ILLINOIS FED. AID PROJECT			



FILE NAME = C-301 E_XS.dgn	USER NAME = johns02944	DESIGNED - M.H.	REVISED -
MODEL NAME = XS_SHEET_Temporary_Header_Name_2	PLOT SCALE = 20.0000 ' / in.	DRAWN - R.S.J.	REVISED -
	PLOT DATE = 01/21/2014	CHECKED - M.H.	REVISED -
		DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
PROPOSED OLYMPIAN DR. EAST

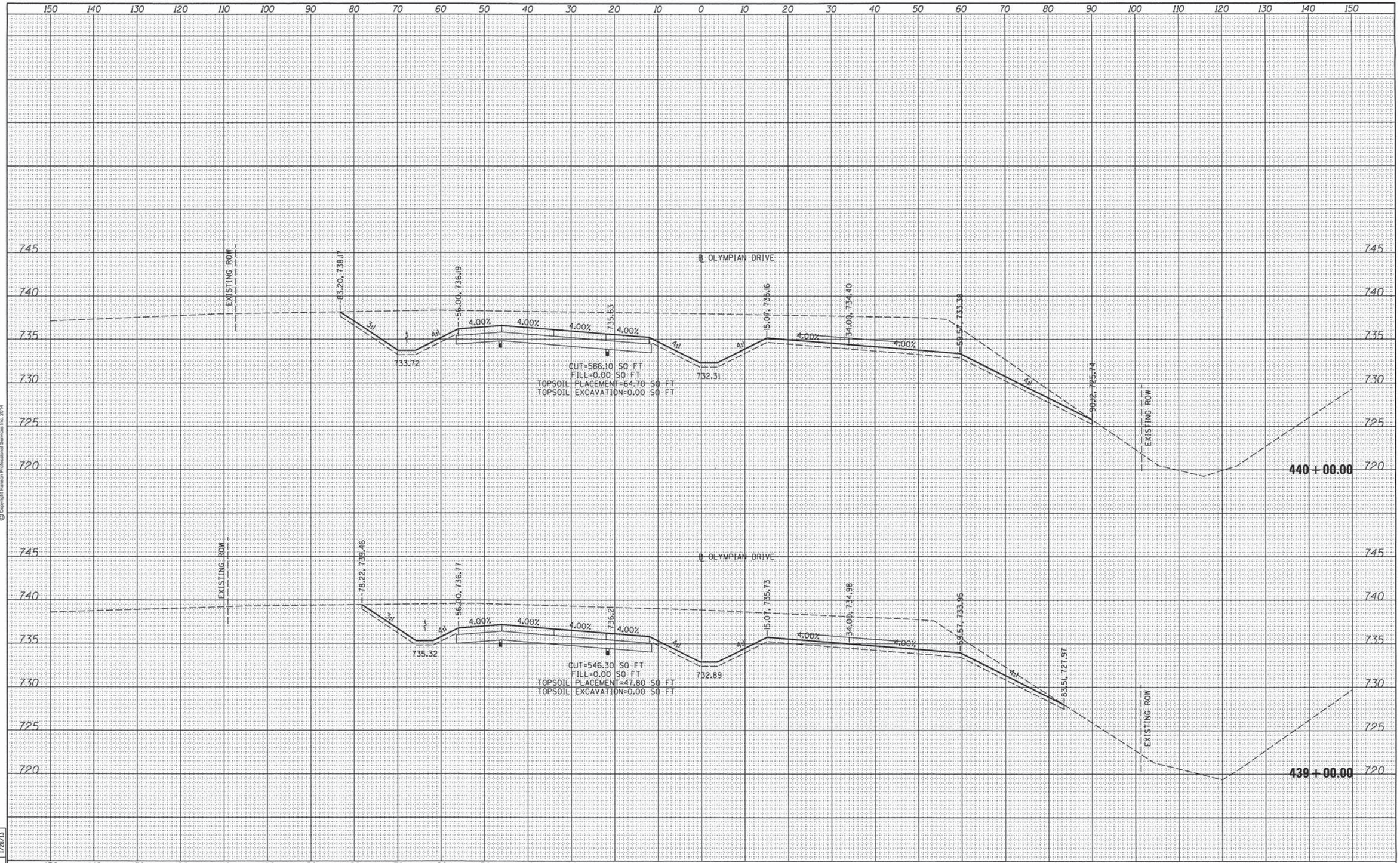
1" = 10' | SHEET NO. 2 OF 31 SHEETS | STA. 437+00.00 TO STA. 438+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	81
	10L0007	CONTRACT NO.	91470	
	ILLINOIS FED. AID PROJECT			

HANSON

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

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



LAYOUT	RSJ	02/15/11
DRAWN	RSJ	02/22/11
REVIEWED	MH	1/28/13

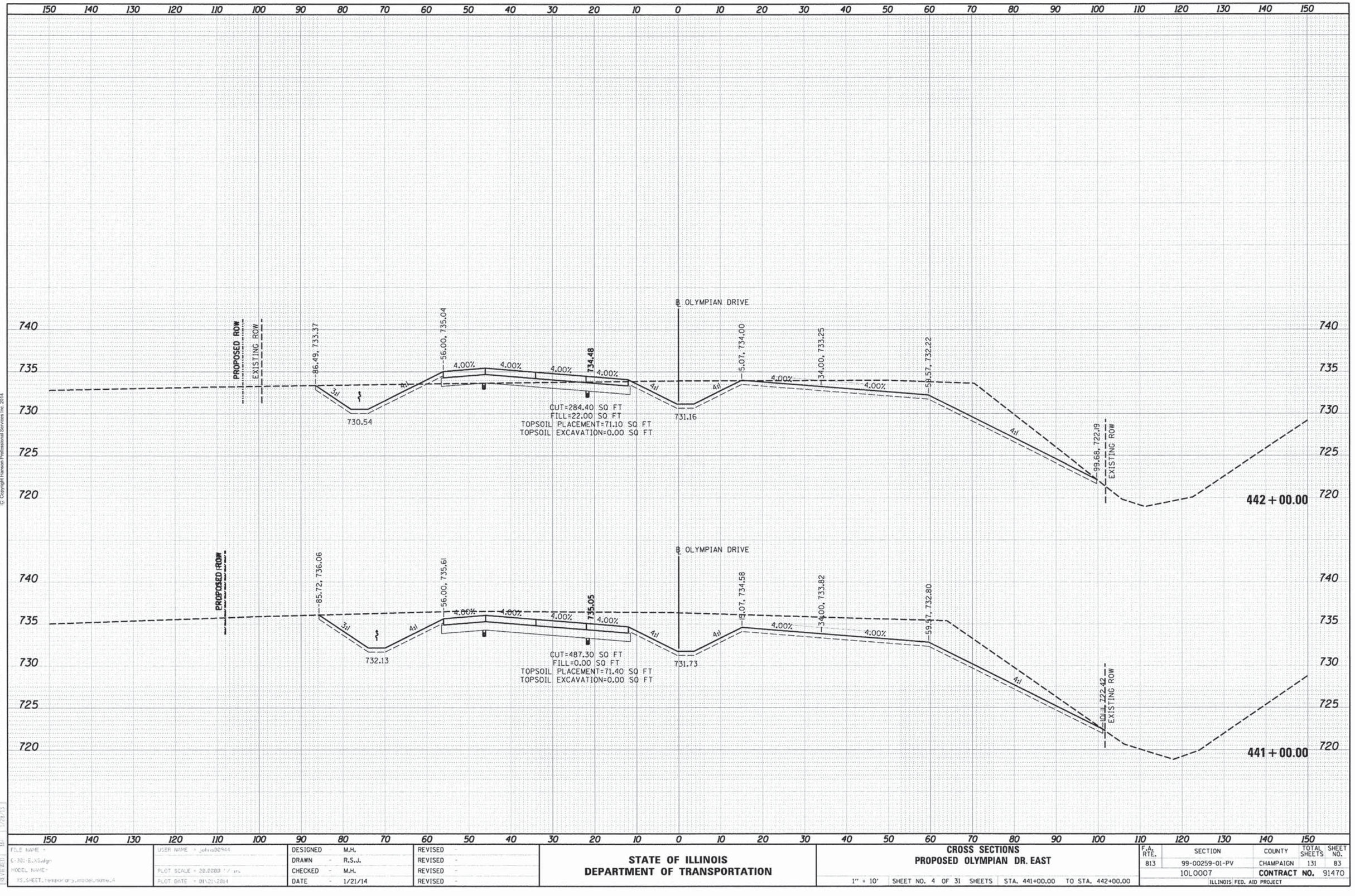
FILE NAME = C-381-E.XS.dgn	USER NAME = johns80944	DESIGNED - M.H.	REVISED -
		DRAWN - R.S.J.	REVISED -
MODEL NAME = XS_SHEET_temporary_model_name_3	PLOT SCALE = 20.0000 ' / in.	CHECKED - M.H.	REVISED -
	PLOT DATE = 02\24\2014	DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
PROPOSED OLYMPIAN DR. EAST

1" = 10' | SHEET NO. 3 OF 31 SHEETS | STA. 439+00.00 TO STA. 440+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	82
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



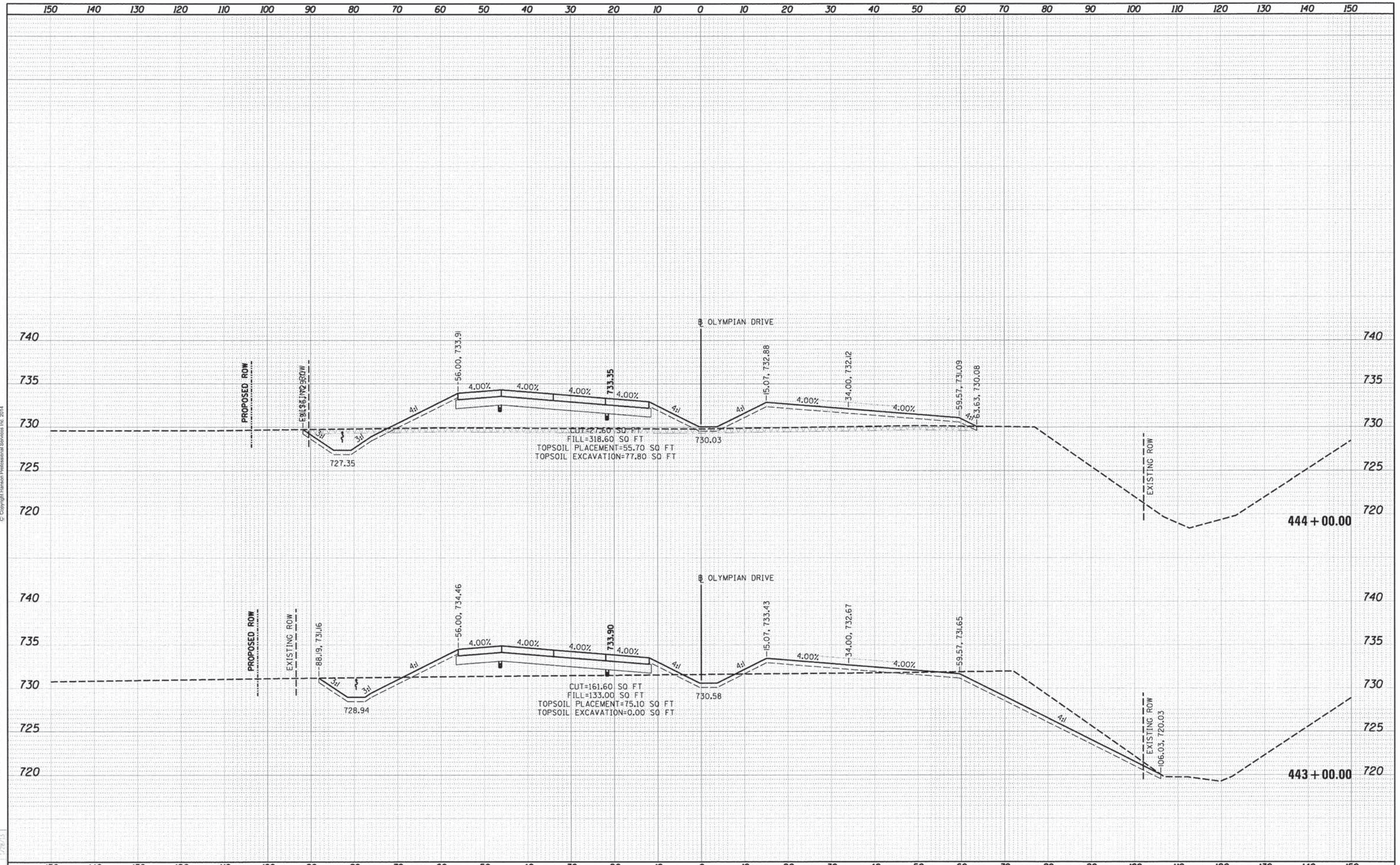
FILE NAME = c:301-E.XS.dgn	USER NAME = johns32944	DESIGNED - M.H.	REVISED -
MODEL NAME = XS_SHEET_Temporary_model_name_4	PLOT SCALE = 20.2000 ' / in.	DRAWN - R.S.J.	REVISED -
	PLOT DATE = 01\21\2014	CHECKED - M.H.	REVISED -
		DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
PROPOSED OLYMPIAN DR. EAST

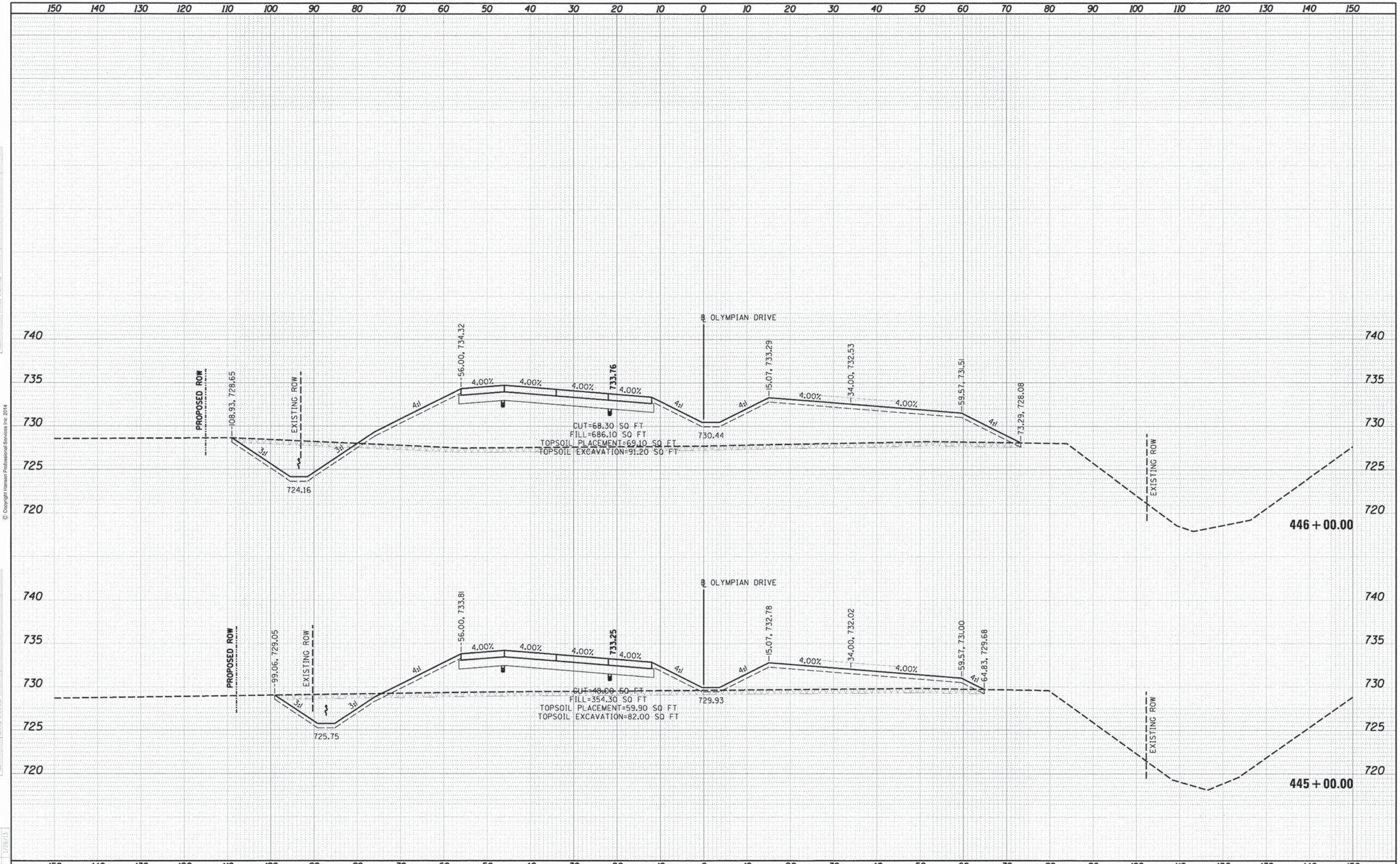
1" = 10' | SHEET NO. 4 OF 31 SHEETS | STA. 441+00.00 TO STA. 442+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	83
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



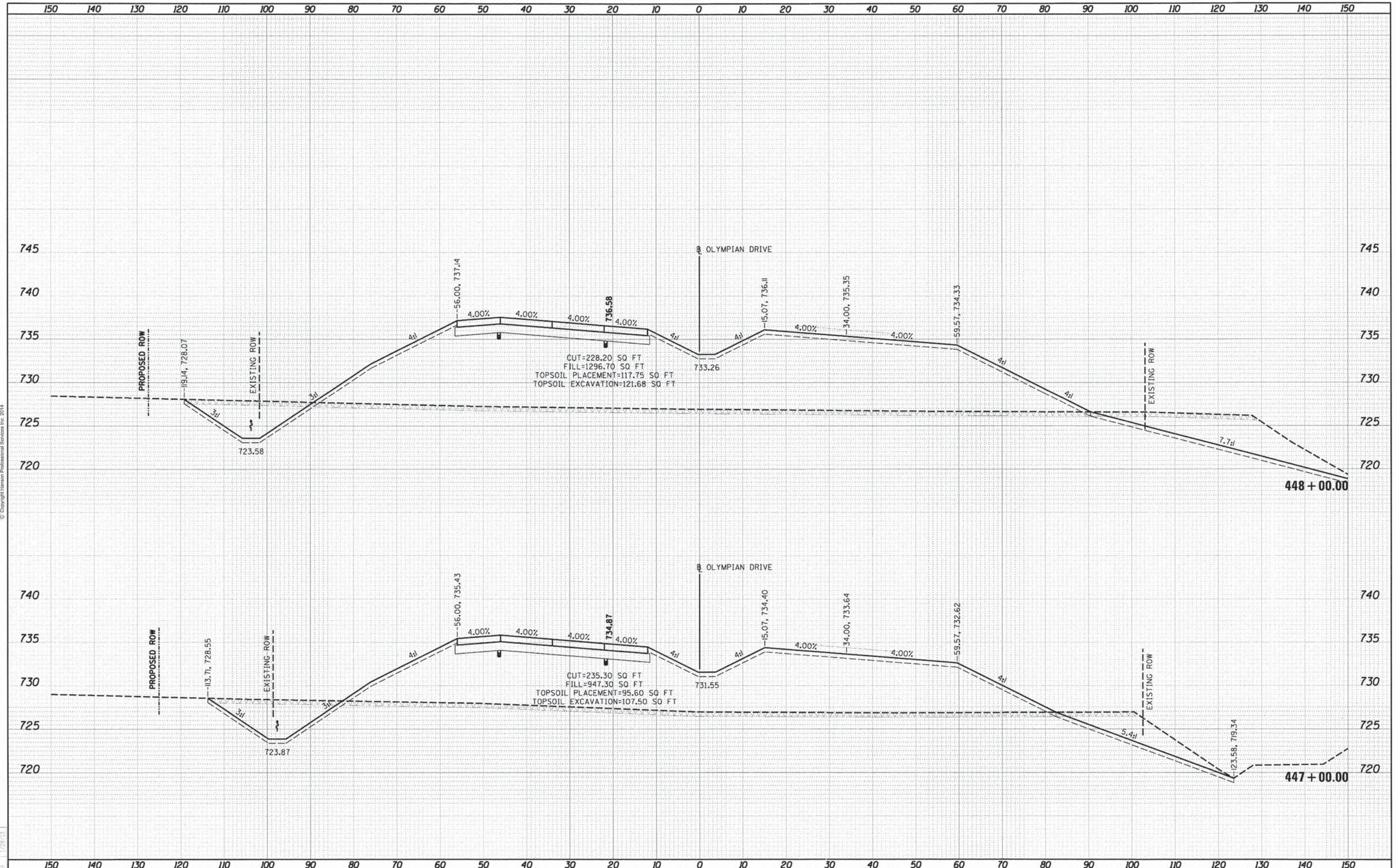
FILE NAME = C:\301 E.X5.dgn	USER NAME = johnny02944	DESIGNED - M.H.	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
MODEL NAME = XS_SHEET_temporary_model_name_5	PLOT SCALE = 20.0000 ' / in.	DRAWN - R.S.J.	REVISED -	**CROSS SECTIONS** **PROPOSED OLYMPIAN DR. EAST**
	PLOT DATE = 3/12/2014	CHECKED - M.H.	REVISED -	1" = 10' SHEET NO. 5 OF 31 SHEETS STA. 443+00.00 TO STA. 444+00.00
		DATE - 1/21/14	REVISED -	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	84
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



FILE NAME = C-301-E_XSdgn	USER NAME = johns80944	DESIGNED - M.H.	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**CROSS SECTIONS PROPOSED OLYMPIAN DR. EAST**
MODEL NAME = XS_SHEET_temporary_model_name_6	PLOT SCALE = 20.0000 ' / in.	DRAWN - R.S.J.	REVISED -		1" = 10' SHEET NO. 6 OF 31 SHEETS STA. 445+00.00 TO STA. 446+00.00
	PLOT DATE = 01\21\2014	CHECKED - M.H.	REVISED -		
		DATE - 1/21/14	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	85
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



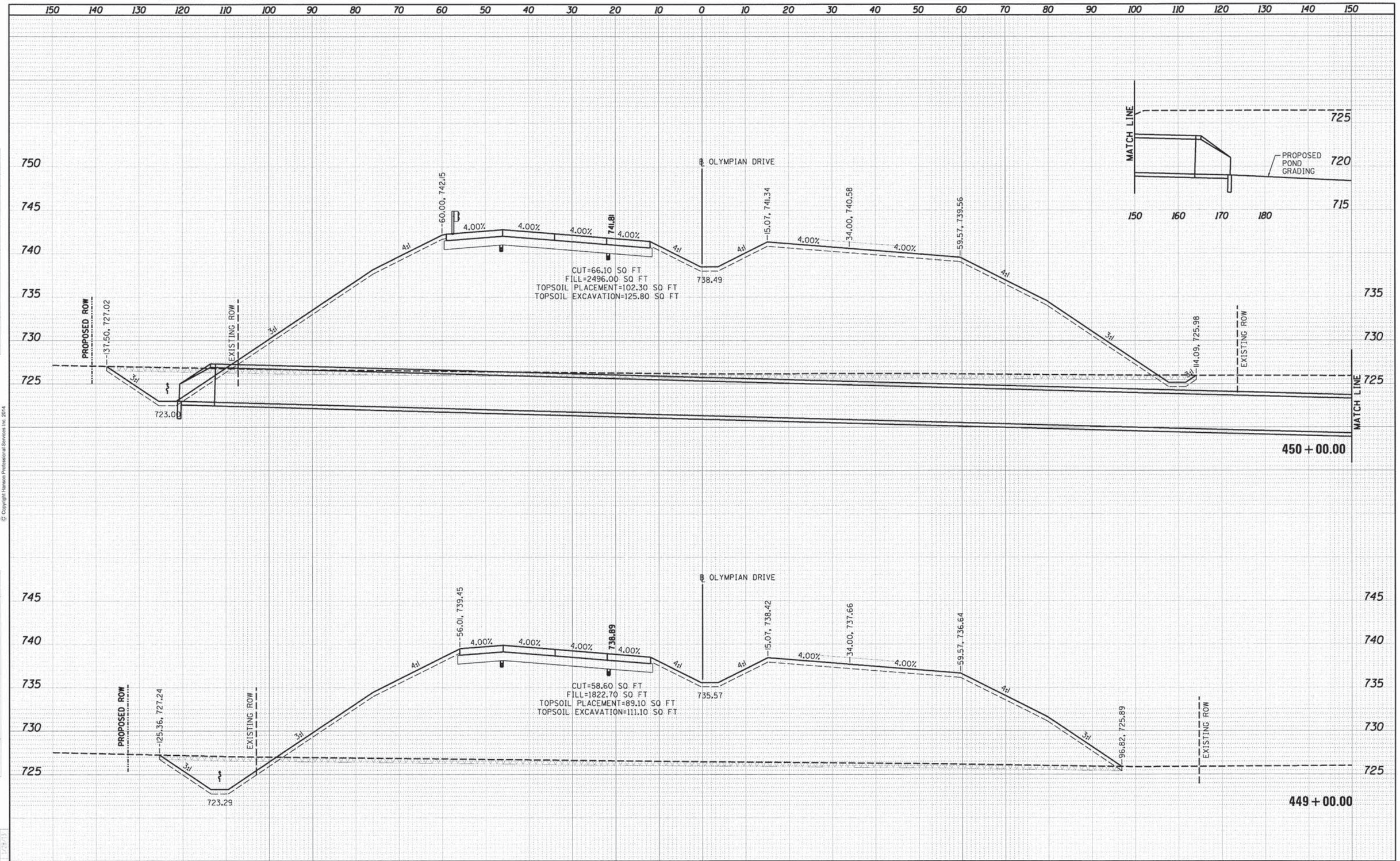
FILE NAME = C:\301-E\XS.dgn	USER NAME = johns30944	DESIGNED - M.H.	REVISED -
MODEL NAME = XS_SHEET_temporary_modelname_7	PLOT SCALE = 20.0000 ' / in.	DRAWN - R.S.J.	REVISED -
	PLOT DATE = 01/21/2014	CHECKED - M.H.	REVISED -
		DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
PROPOSED OLYMPIAN DR. EAST

1" = 10' | SHEET NO. 7 OF 31 SHEETS | STA. 447+00.00 TO STA. 448+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	86
	10L0007	CONTRACT NO.	91470	
	ILLINOIS FED. AID PROJECT			



FILE NAME = C:\321E\XS.dgn	USER NAME = johns08944	DESIGNED - M.H.	REVISED -
MODEL NAME = XS_SHEET_temporary_model_name_6	PLOT SCALE = 20.2000 ' / in.	DRAWN - R.S.J.	REVISED -
	PLOT DATE = 01/21/2014	CHECKED - M.H.	REVISED -
		DATE - 1/21/14	REVISED -

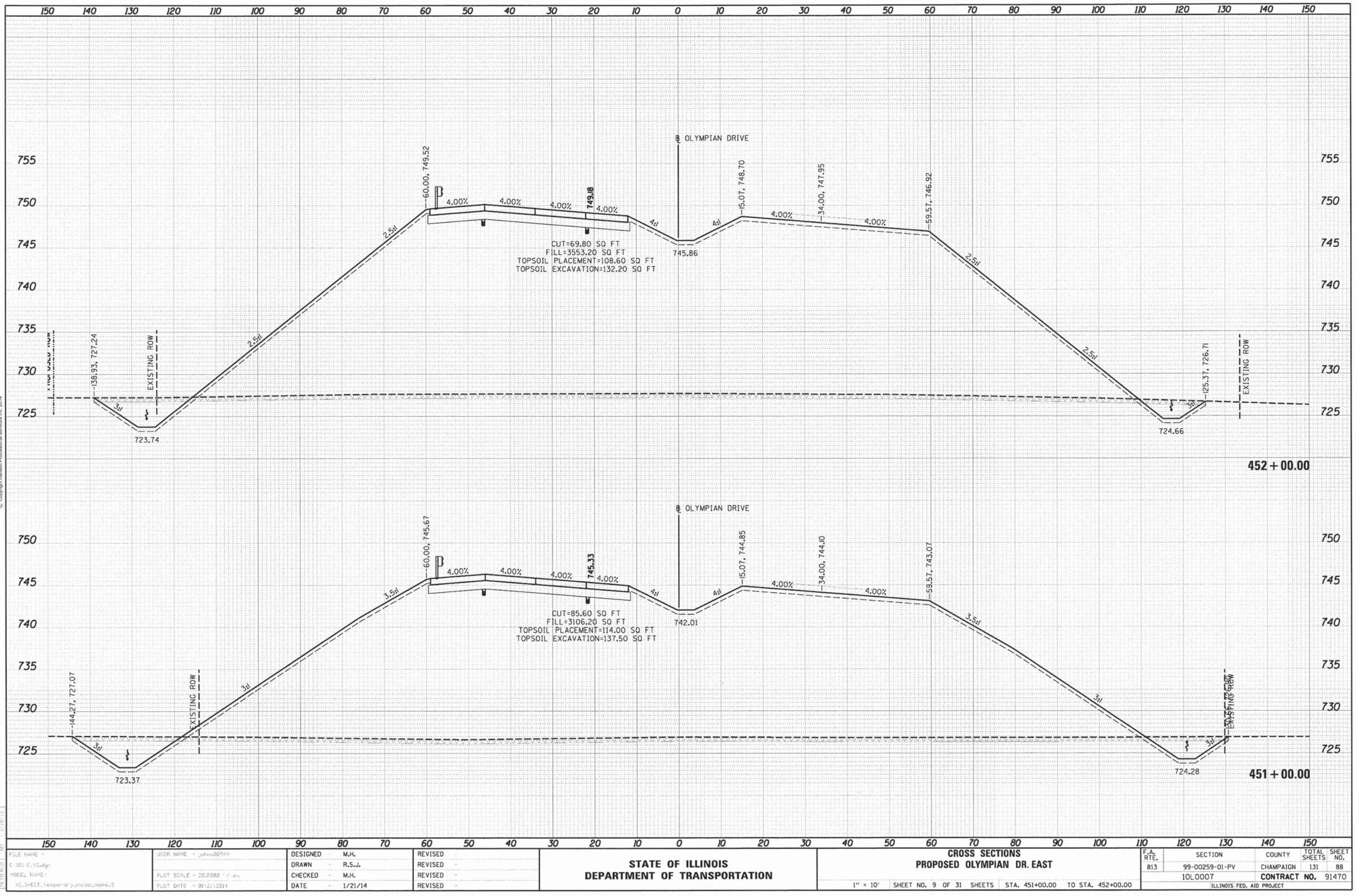
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
PROPOSED OLYMPIAN DR. EAST

1" = 10' | SHEET NO. 8 OF 31 SHEETS | STA. 449+00.00 TO STA. 450+00.00

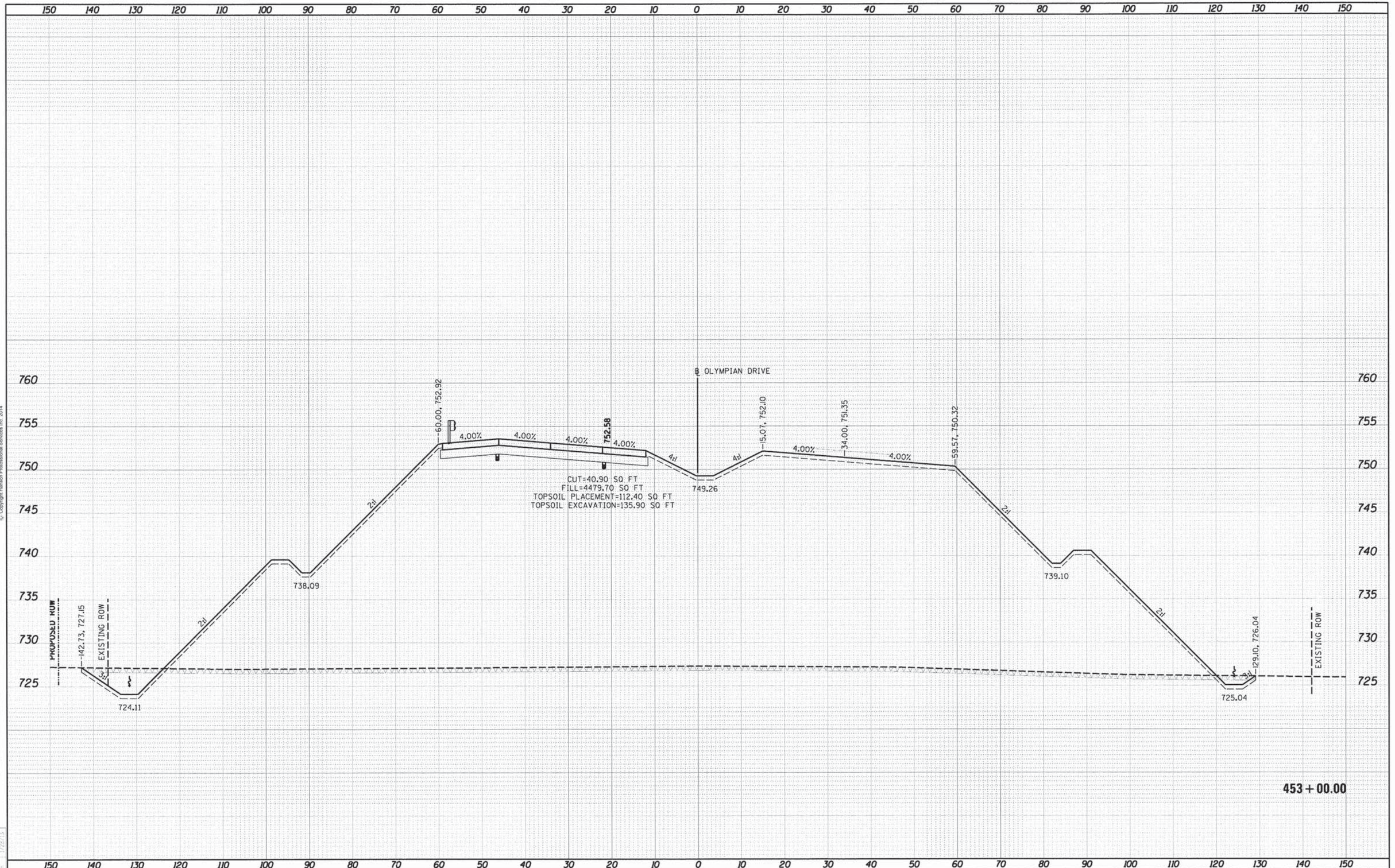
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	87
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

HANSON



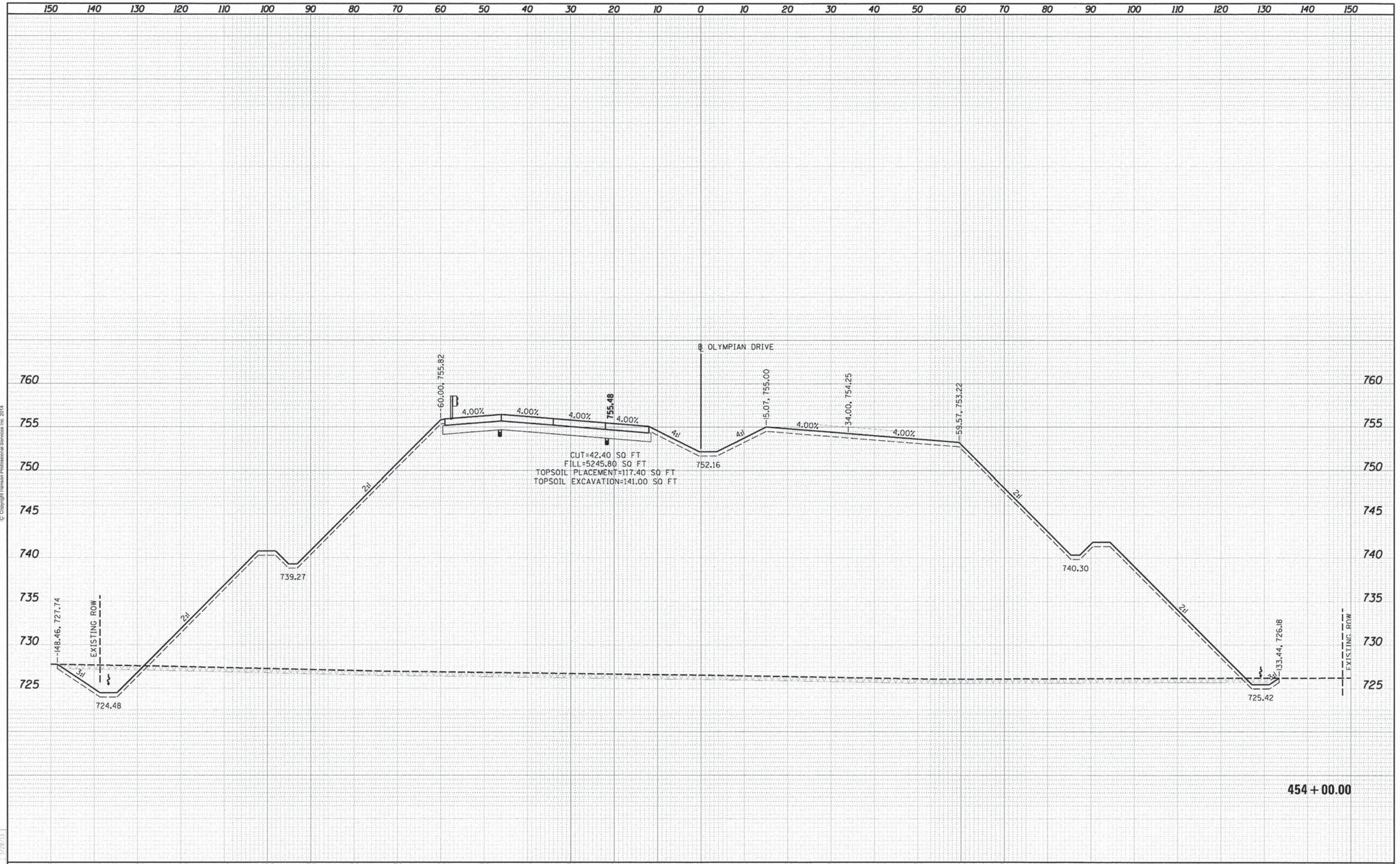
FILE NAME = C-321-E_XS.dgn	USER NAME = johns@2944	DESIGNED - M.H.	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**CROSS SECTIONS PROPOSED OLYMPIAN DR. EAST**
MODEL NAME = XS_SHEET_temporary_model_name_3	PLOT SCALE = 20.0000 ' / in.	DRAWN - R.S.J.	REVISED -		1" = 10' SHEET NO. 9 OF 31 SHEETS STA. 451+00.00 TO STA. 452+00.00
	PLOT DATE = 01\21\2014	CHECKED - M.H.	REVISED -		
		DATE - 1/21/14	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	88
	10L0007	CONTRACT NO.	91470	
	ILLINOIS FED. AID PROJECT			



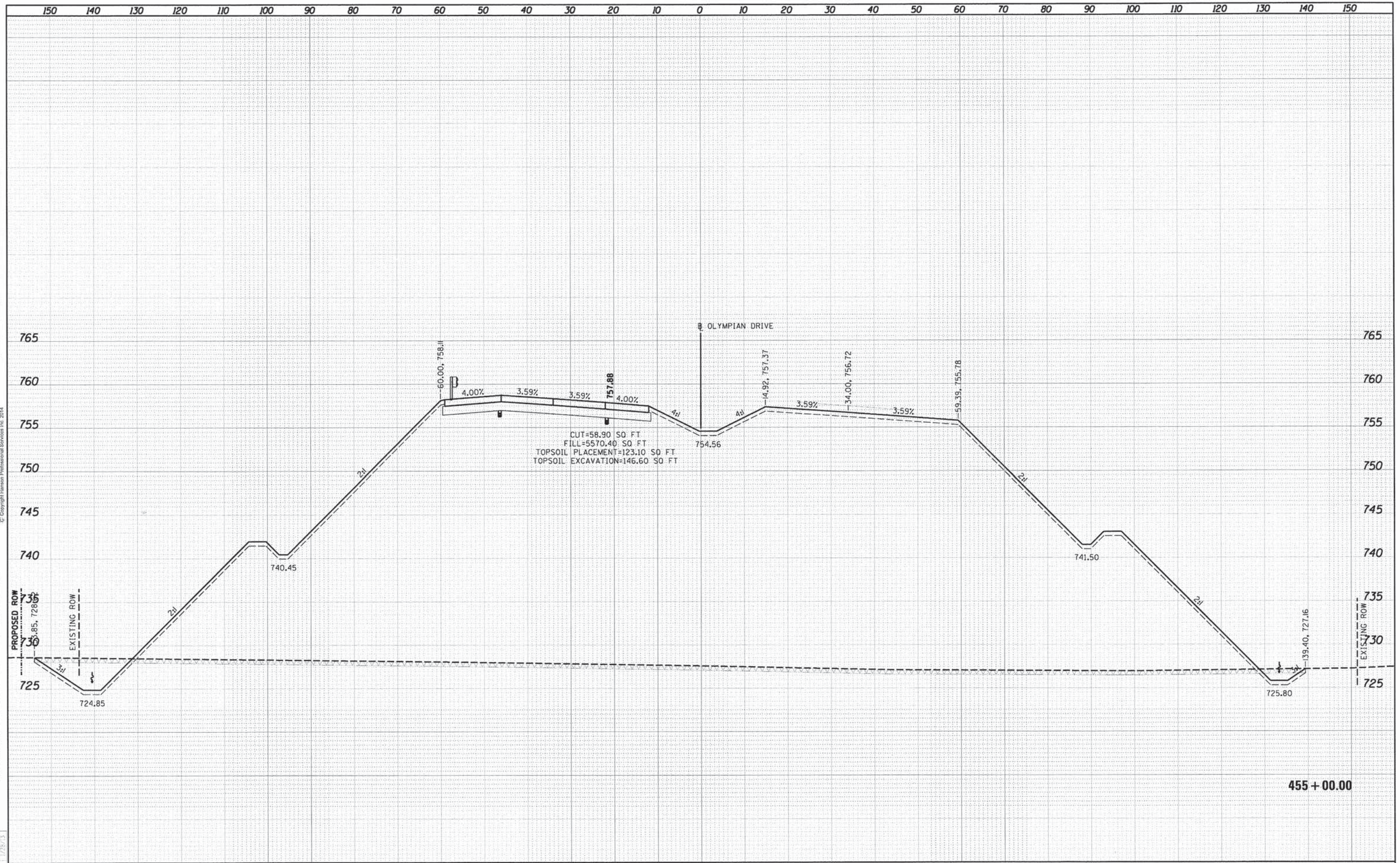
FILE NAME = C:\301 E.X2.dgn	USER NAME = johns02944	DESIGNED - M.H.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS PROPOSED OLYMPIAN DR. EAST
MODEL NAME = KS_SHEET_Temporary_Model_Name_10	PLOT SCALE = 20.0000 ' / in.	DRAWN - R.S.J.	REVISED -		1" = 10' | SHEET NO. 10 OF 31 SHEETS | STA. 453+00.00 TO STA. 453+00.00
	PLOT DATE = 01\21\2014	CHECKED - M.H.	REVISED -		
		DATE - 1/21/14	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	89
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



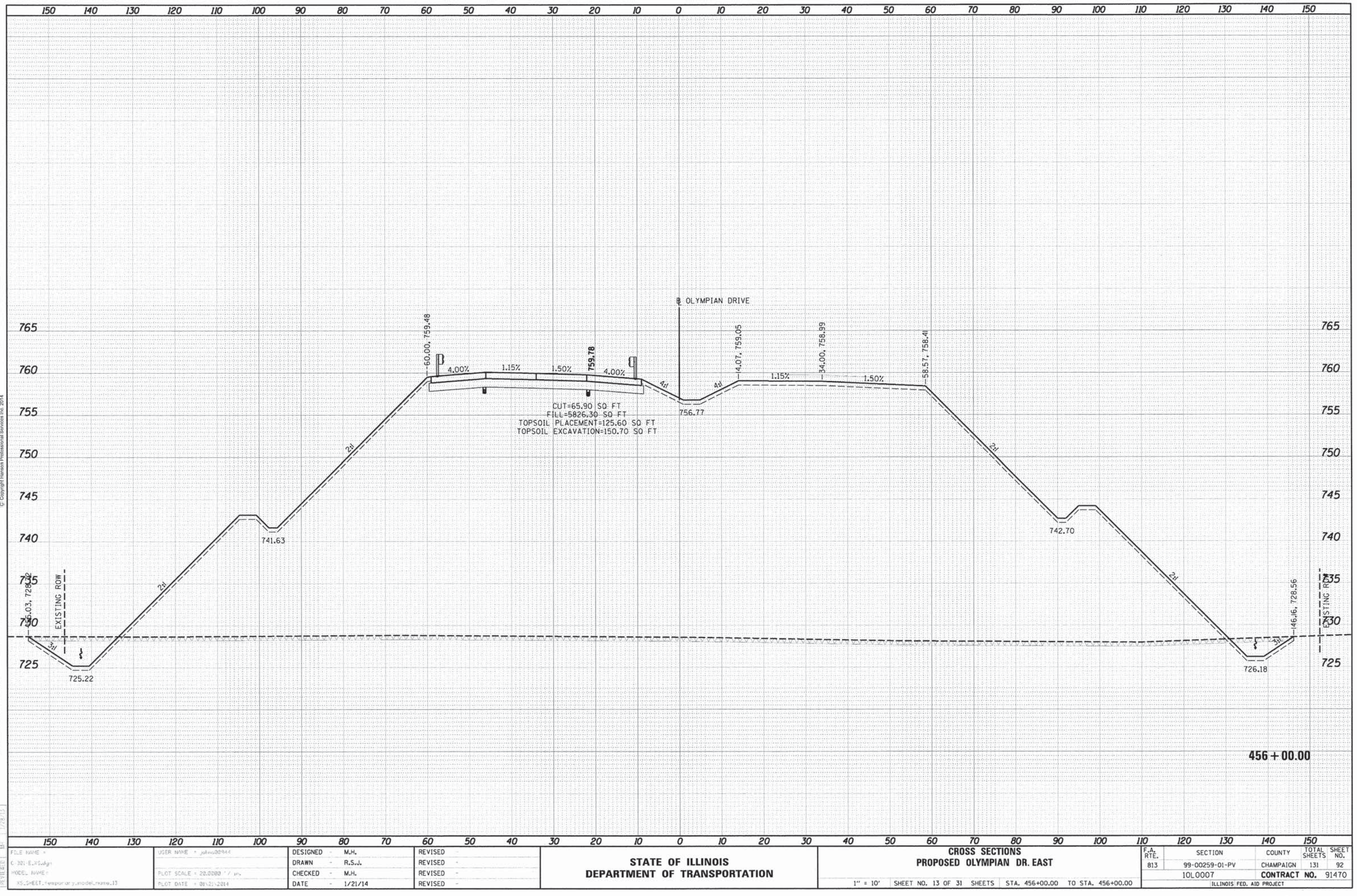
FILE NAME = C:\01\E_XC.dgn	USER NAME = johns08944	DESIGNED - M.H.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS PROPOSED OLYMPIAN DR. EAST
MODEL NAME = XS_SHEET_temporary_modelname_11	PLOT SCALE = 20.2000 ' / in.	DRAWN - R.S.J.	REVISED -		1" = 10' SHEET NO. 11 OF 31 SHEETS STA. 454+00.00 TO STA. 454+00.00
	PLOT DATE = 01/21/2014	CHECKED - M.H.	REVISED -		
		DATE - 1/21/14	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	90
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			

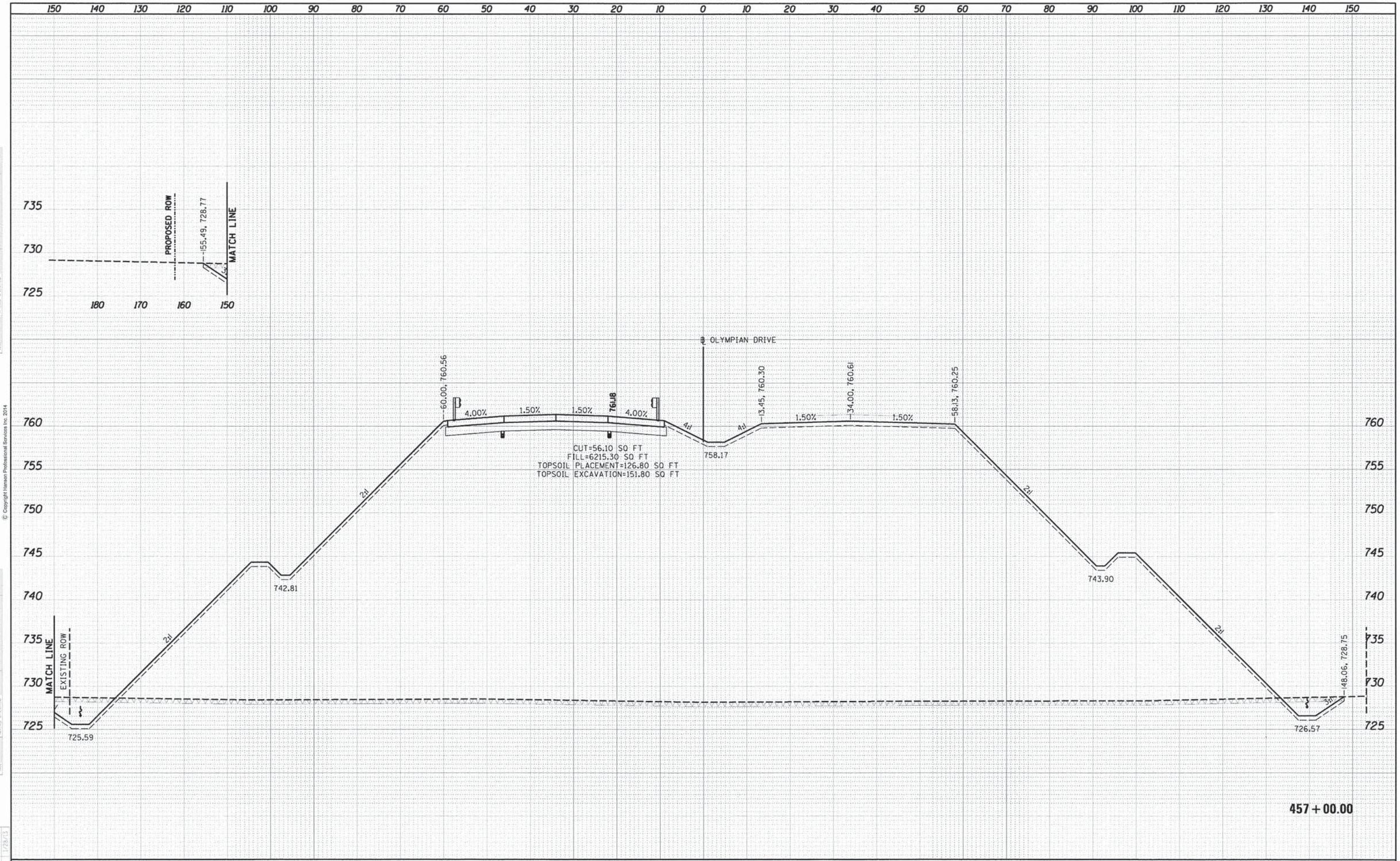


FILE NAME = C:\82\E_XS.dgn	USER NAME = johns30944	DESIGNED - M.H.	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
MODEL NAME = XS_SHEET_temporary_modelname_12	PLOT SCALE = 20.0000 ' / in.	DRAWN - R.S.J.	REVISED -	**CROSS SECTIONS** **PROPOSED OLYMPIAN DR. EAST**
	PLOT DATE = 01/21/2014	CHECKED - M.H.	REVISED -	1" = 10' SHEET NO. 12 OF 31 SHEETS STA. 455+00.00 TO STA. 455+00.00
		DATE - 1/21/14	REVISED -	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	91
	10L0007	**CONTRACT NO.**	91470	
	ILLINOIS FED. AID PROJECT			

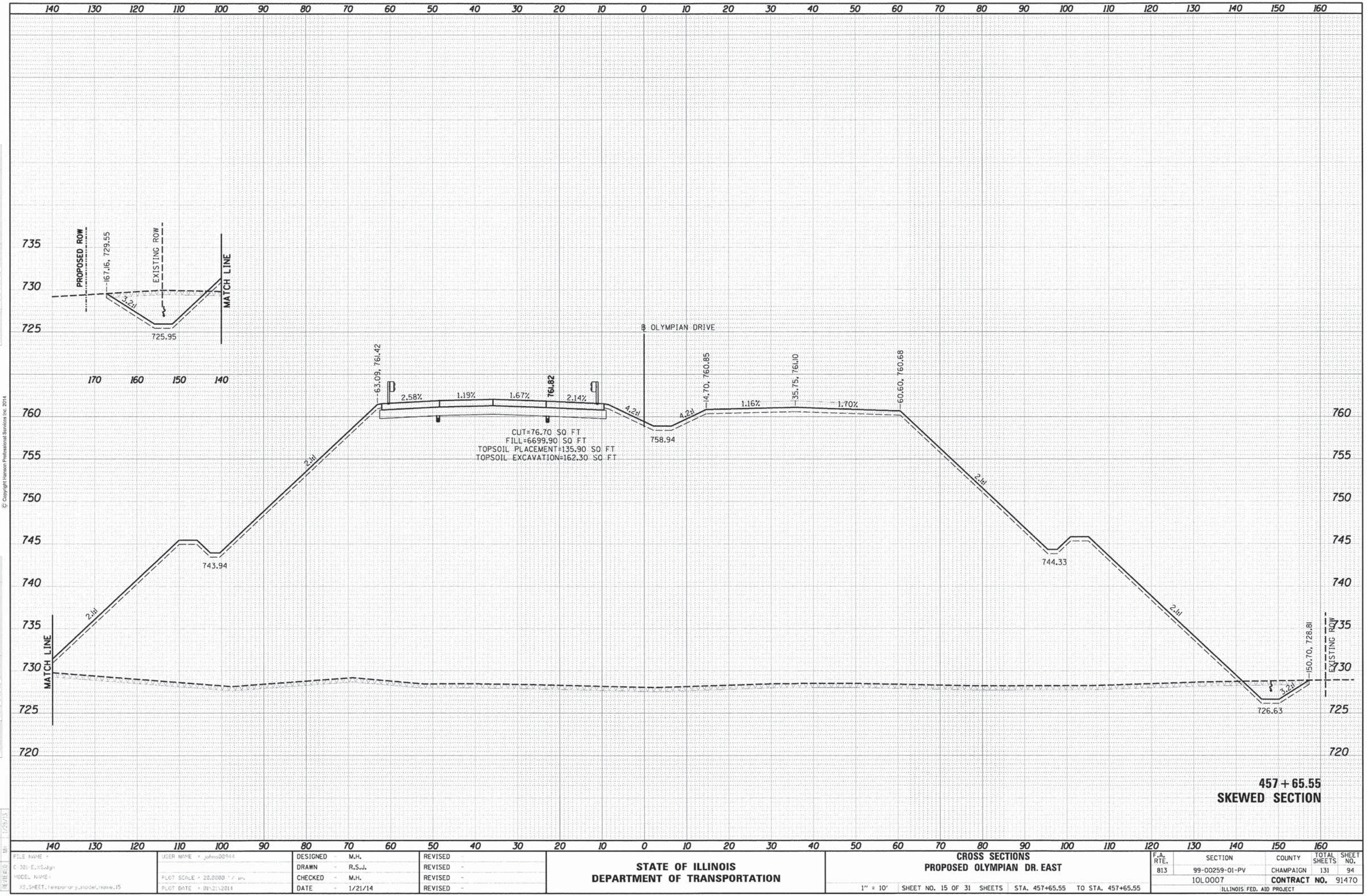


FILE NAME = C:\301\E_XS.dgn	USER NAME = johns30944	DESIGNED - M.H.	REVISED -	**STATE OF ILLINOIS**	**CROSS SECTIONS**	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MODEL NAME = XS_SHEET_Temporary_model_name_13	PLOT SCALE = 20.0000 ' / in.	DRAWN - R.S.J.	REVISED -	**DEPARTMENT OF TRANSPORTATION**	**PROPOSED OLYMPIAN DR. EAST**	813	99-00259-01-PV	CHAMPAIGN	131	92
	PLOT DATE = 01/21/2014	CHECKED - M.H.	REVISED -		1" = 10' SHEET NO. 13 OF 31 SHEETS STA. 456+00.00 TO STA. 456+00.00		10L0007	CONTRACT NO. 91470		
		DATE - 1/21/14	REVISED -					ILLINOIS FED. AID PROJECT		



FILE NAME = C-301-E_XS.dgn	USER NAME = johns82944	DESIGNED - M.H.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS PROPOSED OLYMPIAN DR. EAST
MODEL NAME = XS_SHEET_temporary_model_name_14	PLOT SCALE = 20.0000 ' / in.	DRAWN - R.S.J.	REVISED -		1" = 10' SHEET NO. 14 OF 31 SHEETS STA. 457+00.00 TO STA. 457+00.00
	PLOT DATE = 01\21\2014	CHECKED - M.H.	REVISED -		
		DATE - 1/21/14	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	93
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



457+65.55
SKEWED SECTION

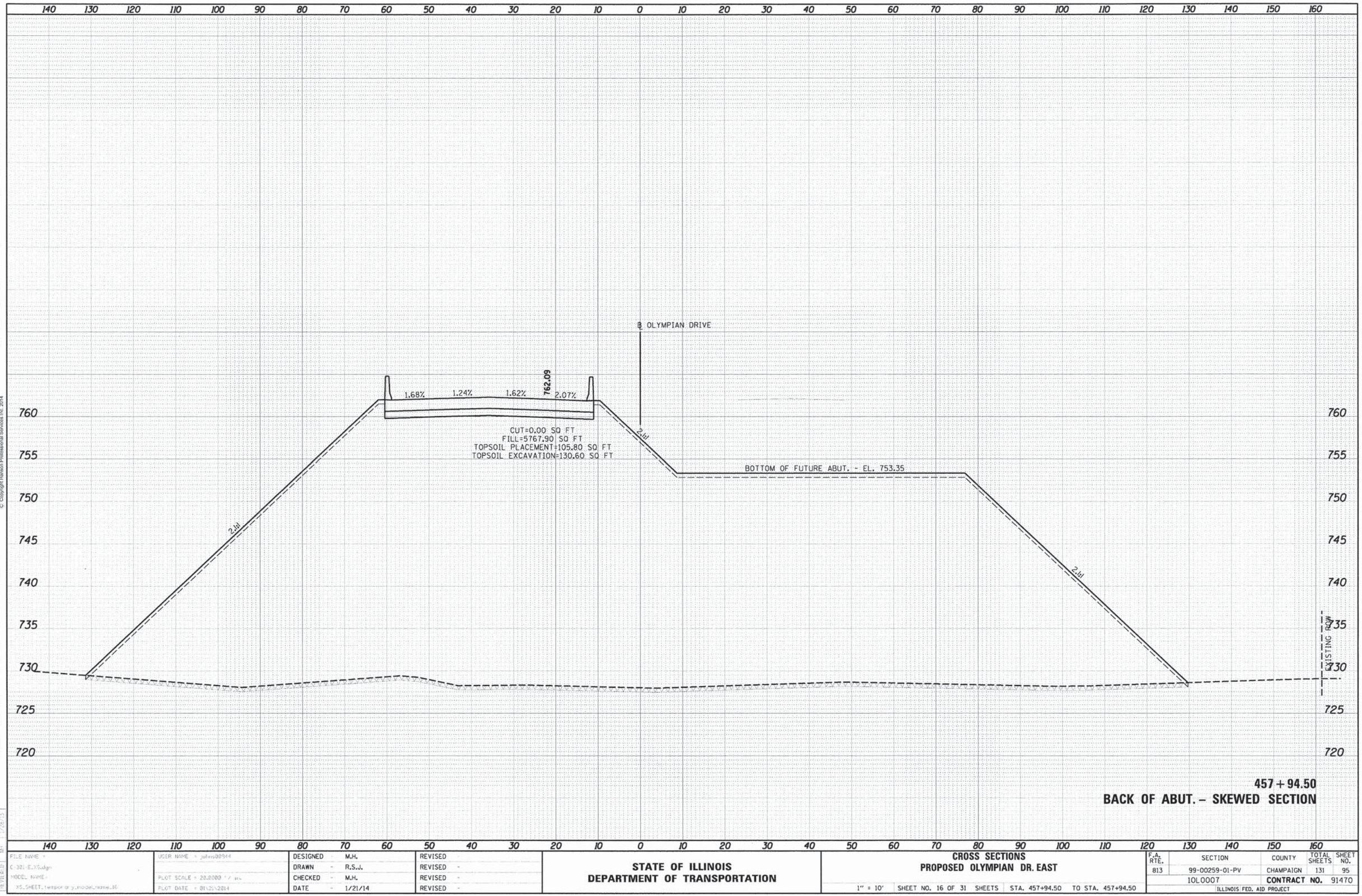
FILE NAME = C-321-E_XS.dgn	USER NAME = johns00944	DESIGNED - M.H.	REVISED -
MODEL NAME = XS_SHEET_temporary_model_name_15	PLOT SCALE = 20.2000 ' / in.	DRAWN - R.S.J.	REVISED -
	PLOT DATE = 01/21/2014	CHECKED - M.H.	REVISED -
		DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
PROPOSED OLYMPIAN DR. EAST

1" = 10' | SHEET NO. 15 OF 31 SHEETS | STA. 457+65.55 | TO STA. 457+65.55

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	94
	10L0007	CONTRACT NO.	91470	
	ILLINOIS FED. AID PROJECT			

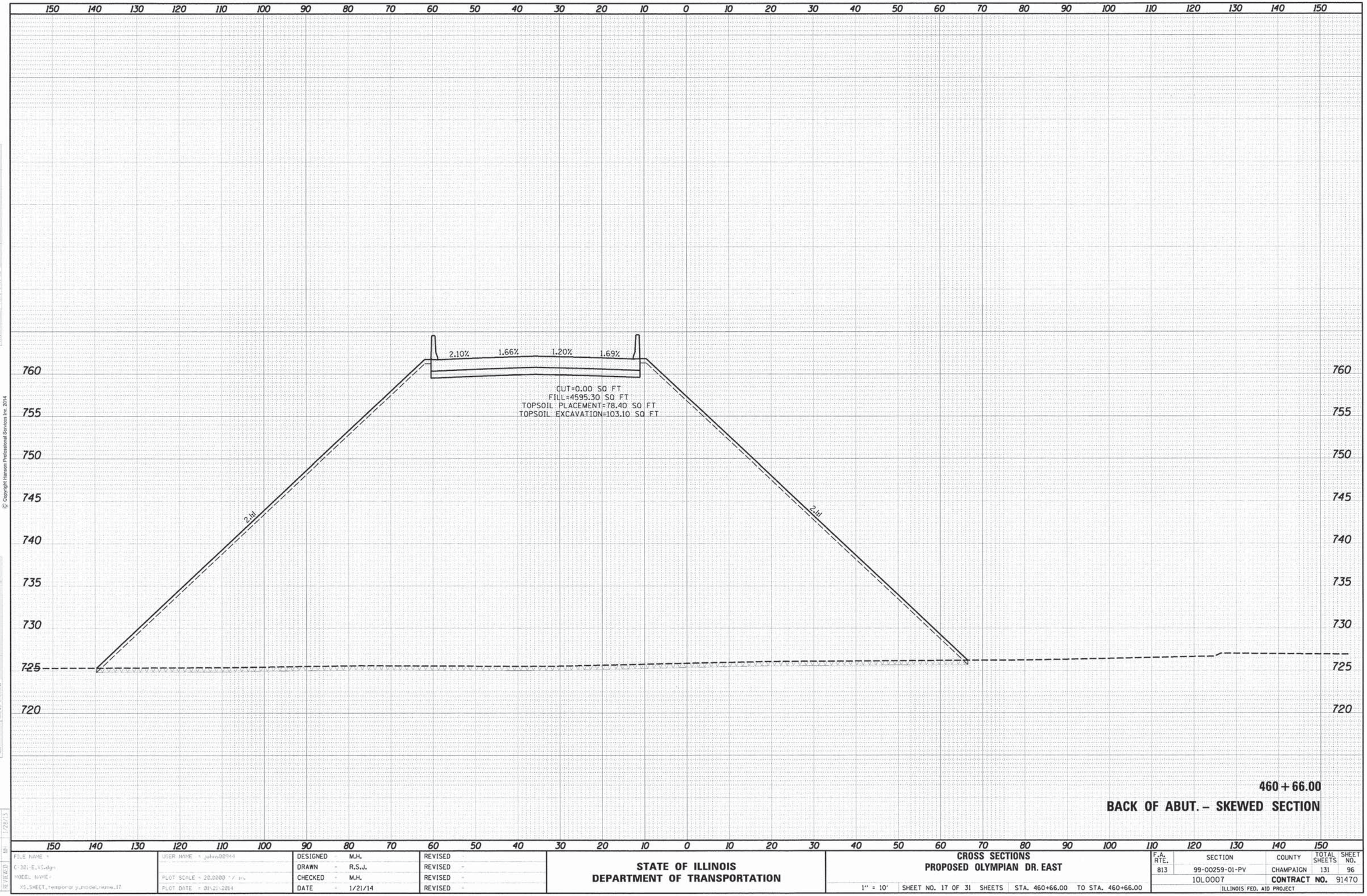


457+94.50

BACK OF ABUT. – SKEWED SECTION

FILE NAME = C:\301E_XS.dgn	USER NAME = johns08944	DESIGNED - M.H.	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	**CROSS SECTIONS** **PROPOSED OLYMPIAN DR. EAST**
MODEL NAME = XS_SHEET, temporary_model_name_16	PLOT SCALE = 20.0000 ' / in.	DRAWN - R.S.J.	REVISED -		1" = 10' SHEET NO. 16 OF 31 SHEETS STA. 457+94.50 TO STA. 457+94.50
	PLOT DATE = 01\21\2014	CHECKED - M.H.	REVISED -		
		DATE - 1/21/14	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	95
	10L0007	**CONTRACT NO.** 91470		
	ILLINOIS FED. AID PROJECT			



460 + 66.00

BACK OF ABUT. – SKEWED SECTION

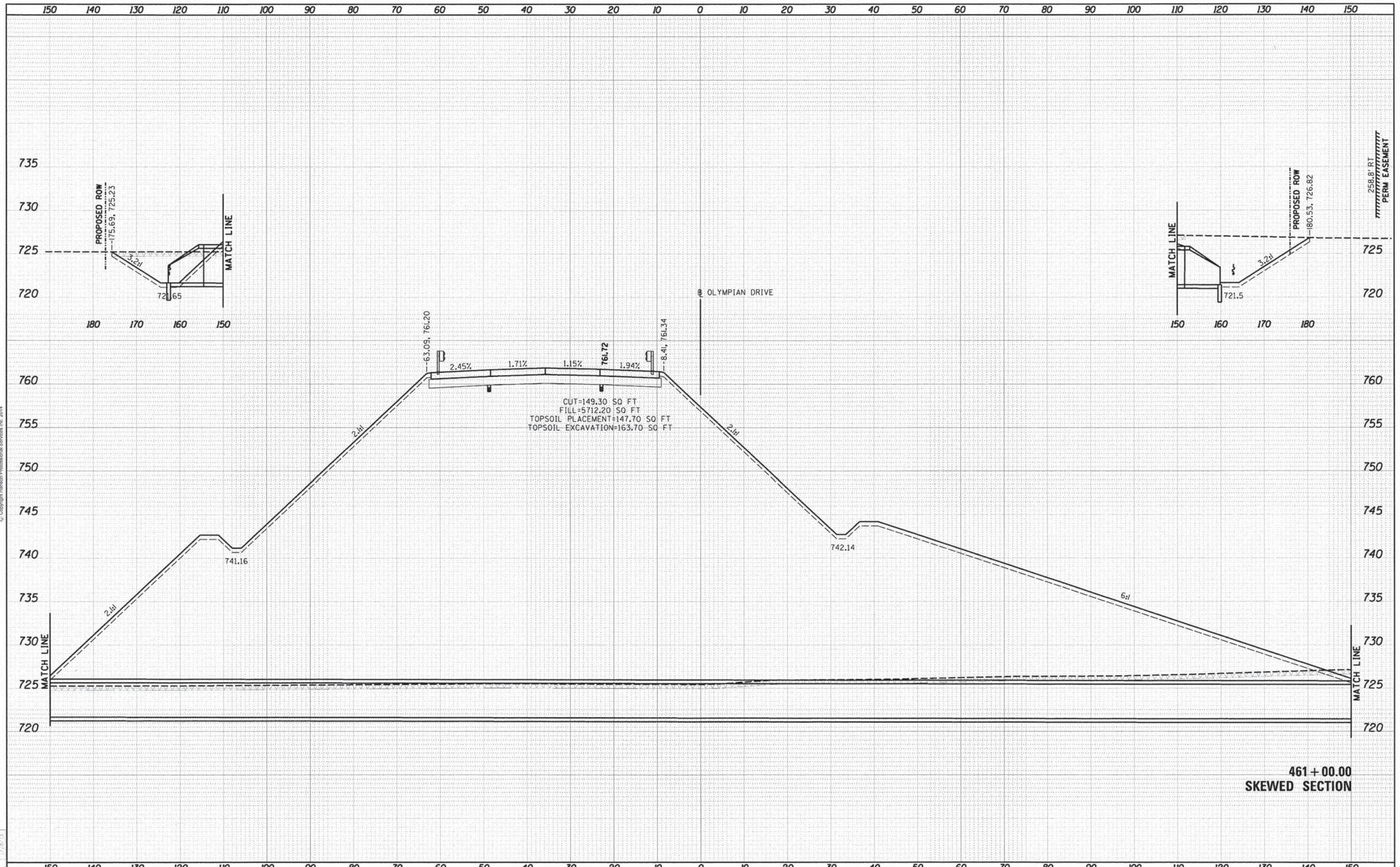
FILE NAME = C:\301-E_XS.dgn	USER NAME = johns00944	DESIGNED - M.H.	REVISED -
MODEL NAME = XS_SHEET_temporary_model_name_17	PLOT SCALE = 20.0000 ' / in.	DRAWN - R.S.J.	REVISED -
	PLOT DATE = 01/21/2014	CHECKED - M.H.	REVISED -
		DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
PROPOSED OLYMPIAN DR. EAST

1" = 10' | SHEET NO. 17 OF 31 SHEETS | STA. 460+66.00 | TO STA. 460+66.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	96
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



461+00.00
SKEWED SECTION

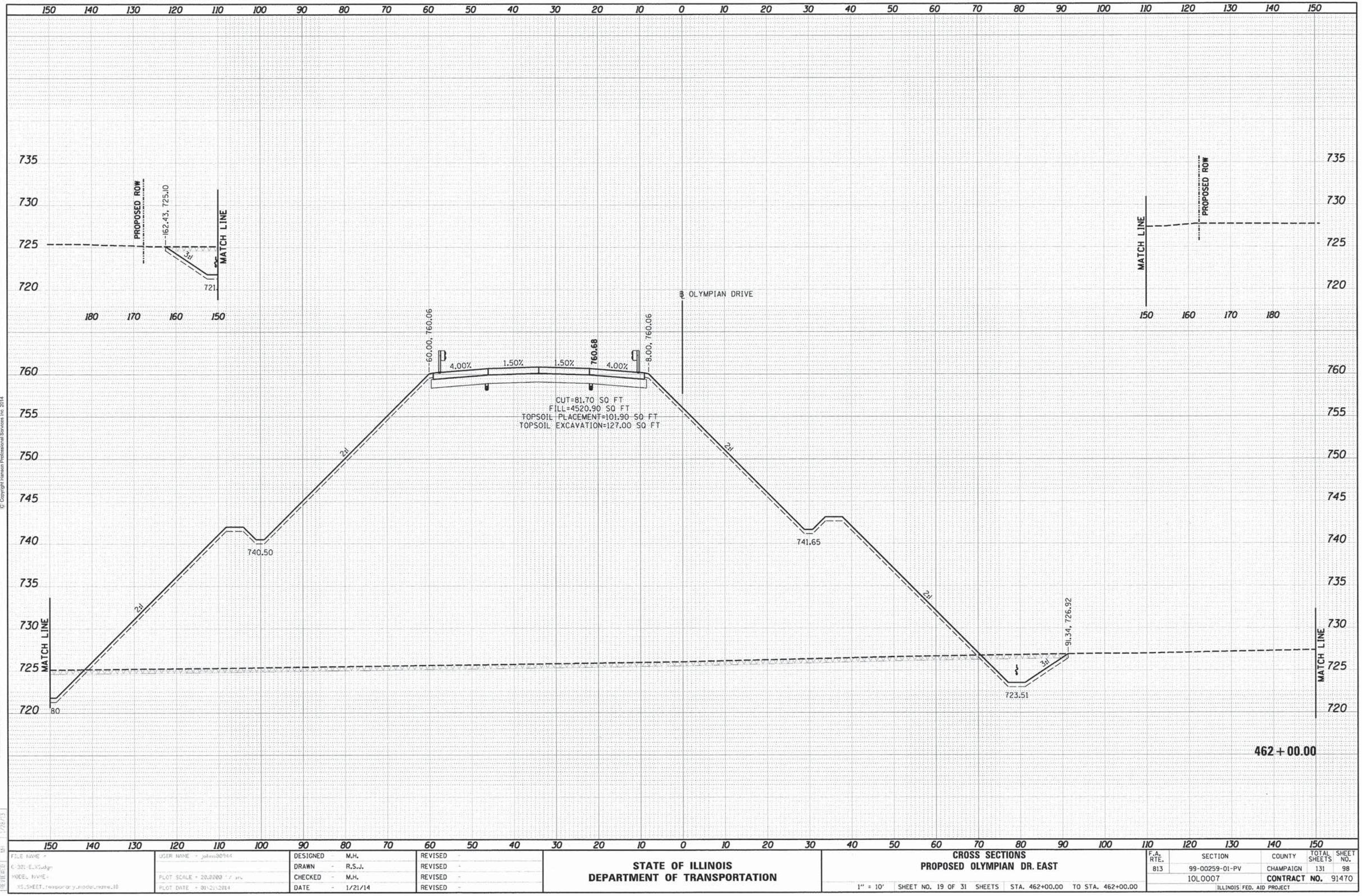
FILE NAME = C:\321-E_XS.dgn	USER NAME = johns@0944	DESIGNED - M.H.	REVISED -
MODEL NAME = XS_SHEET_Temporary_model_name_1TB	PLOT SCALE = 20.0000 ' / in.	DRAWN - R.S.J.	REVISED -
	PLOT DATE = 01\21\2014	CHECKED - M.H.	REVISED -
		DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
PROPOSED OLYMPIAN DR. EAST

1" = 10' | SHEET NO. 18 OF 31 SHEETS | STA. 461+00.00 TO STA. 461+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	97
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



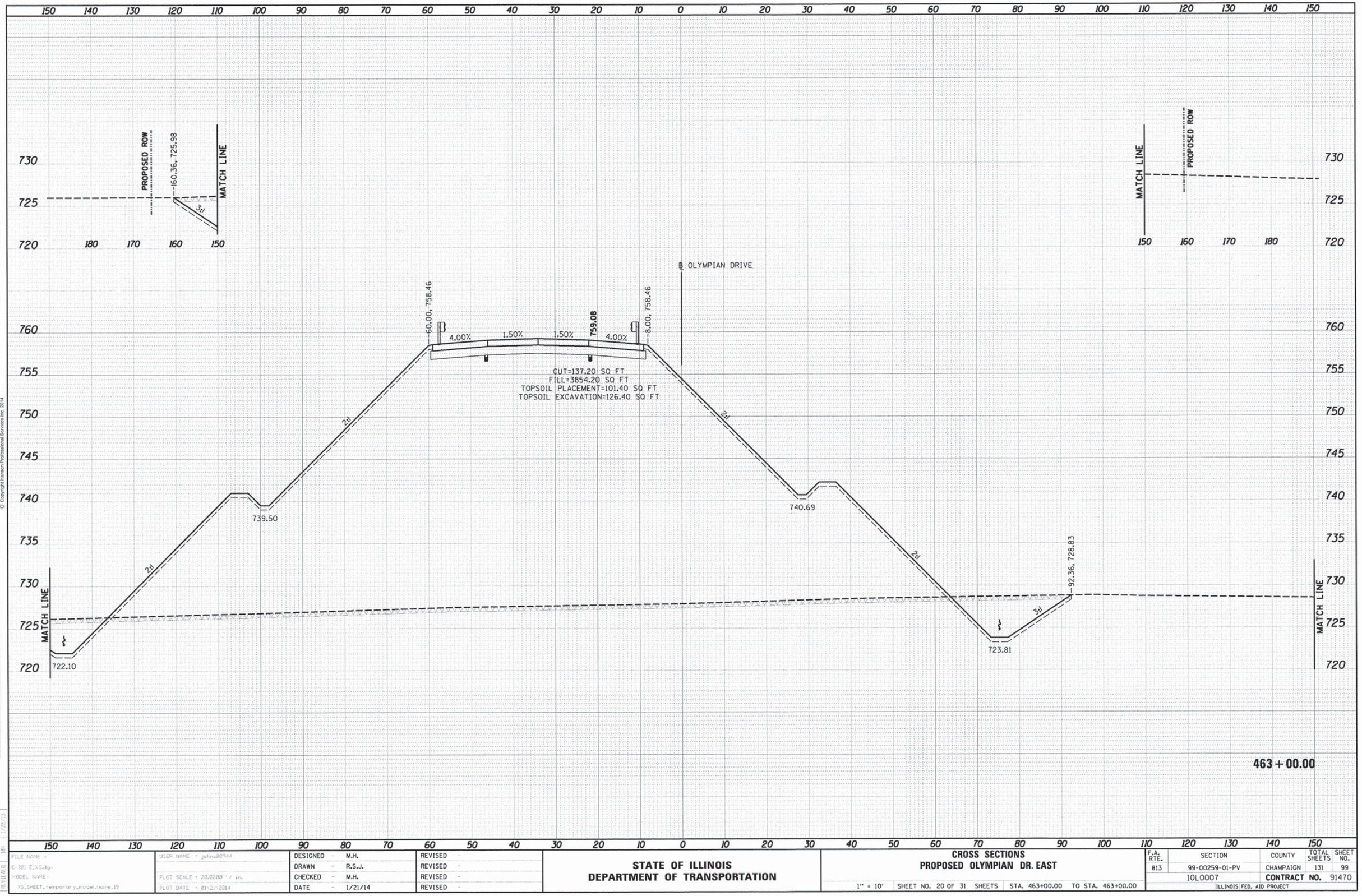
FILE NAME = K-301-E_XSdgn	USER NAME = johns80944	DESIGNED - M.H.	REVISED -
MODEL NAME = XS_SHEET_temporary_model_name_18	PLOT SCALE = 20.0000 ' / in.	DRAWN - R.S.J.	REVISED -
	PLOT DATE = 01/21/2014	CHECKED - M.H.	REVISED -
		DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
PROPOSED OLYMPIAN DR. EAST

1" = 10' | SHEET NO. 19 OF 31 SHEETS | STA. 462+00.00 TO STA. 462+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CchampaIGN	131	98
	10L0007	CONTRACT NO.	91470	
	ILLINOIS FED. AID PROJECT			



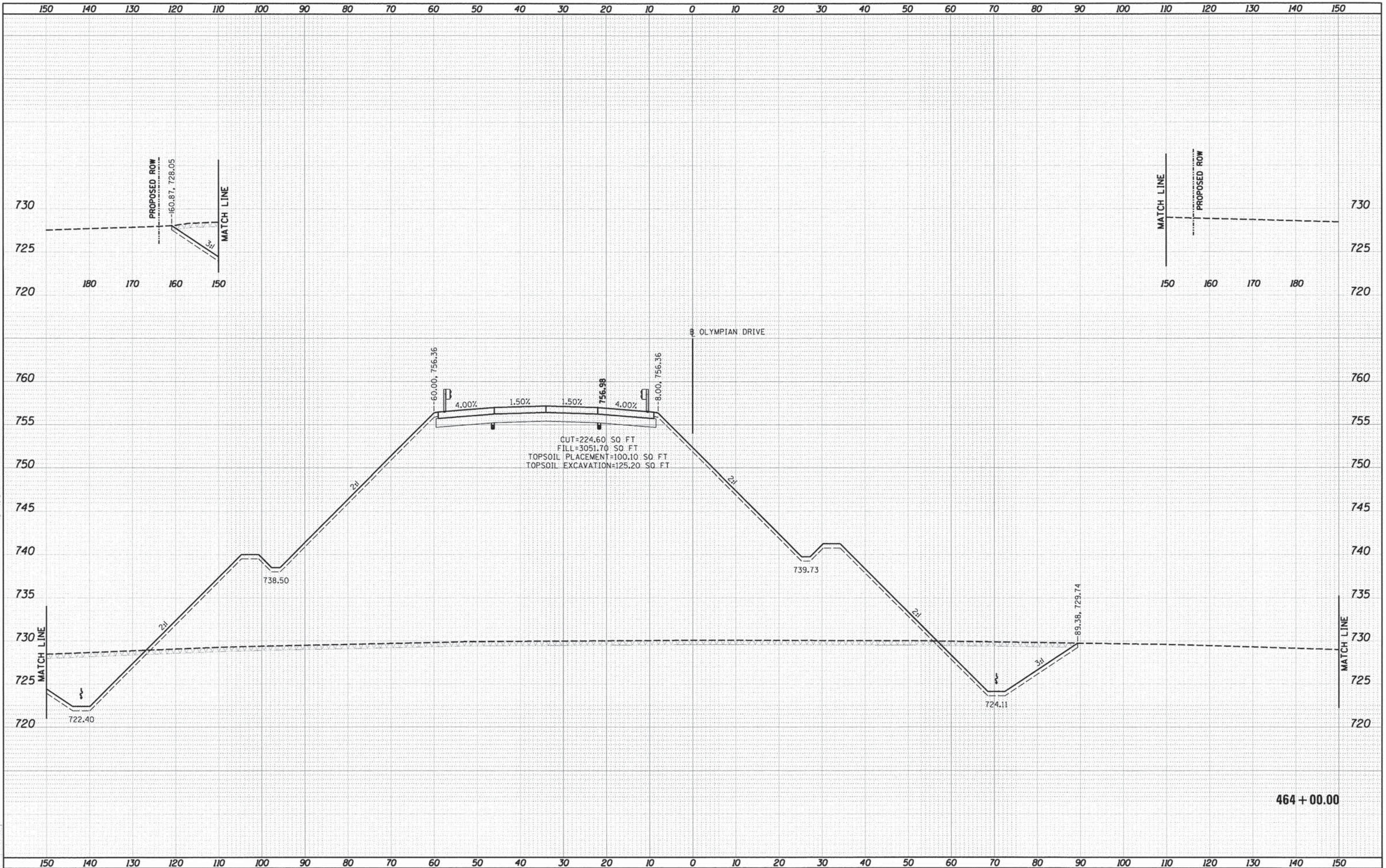
FILE NAME = C-301 E_XS.dgn	USER NAME = johns@0944	DESIGNED - M.H.	REVISED -
MODEL NAME = XS_SHEET_temporary_model_name_19	PLOT SCALE = 20.0000 ' / in.	DRAWN - R.S.J.	REVISED -
	PLOT DATE = 01/21/2014	CHECKED - M.H.	REVISED -
		DATE - 1/21/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
PROPOSED OLYMPIAN DR. EAST

1" = 10' | SHEET NO. 20 OF 31 SHEETS | STA. 463+00.00 TO STA. 463+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	99
	10L0007	CONTRACT NO. 91470		
	ILLINOIS FED. AID PROJECT			



FILE NAME = C-301-E.XS.dgn	USER NAME = johns02944	DESIGNED - M.H.	REVISED -
		DRAWN - R.S.J.	REVISED -
MODEL NAME: XS_SHEET_temporary_model_name_20	PLOT SCALE = 20.0000 '/ in.	CHECKED - M.H.	REVISED -
	PLOT DATE = 01\21\2014	DATE - 1/21/14	REVISED -

LAYOUT RSJ 02/15/11
DRAWN RSJ 02/22/11
REVIEWED MH 1/28/13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
PROPOSED OLYMPIAN DR. EAST

1" = 10' | SHEET NO. 21 OF 31 SHEETS | STA. 464+00.00 TO STA. 464+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
813	99-00259-01-PV	CHAMPAIGN	131	100
	10L0007	**CONTRACT NO.**	91470	

ILLINOIS FED. AID PROJECT