

01-20-2017 LETTING ITEM 032

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

P.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	41 BR-1	CHAMPAIGN	40	1
		ILLINOIS	CONTRACT NO. 70598	

**PROPOSED  
HIGHWAY PLANS**  
FAS ROUTE 522 (SIDNEY-LONGVIEW RD.)  
SECTION 41 BR-1  
PROJECT ACRS-0522(120)  
BRIDGE REPLACEMENT  
CHAMPAIGN COUNTY  
E. BRANCH EMBARRAS RIVER,  
2 MI. N. OF LONGVIEW



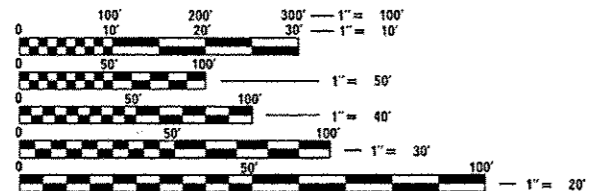
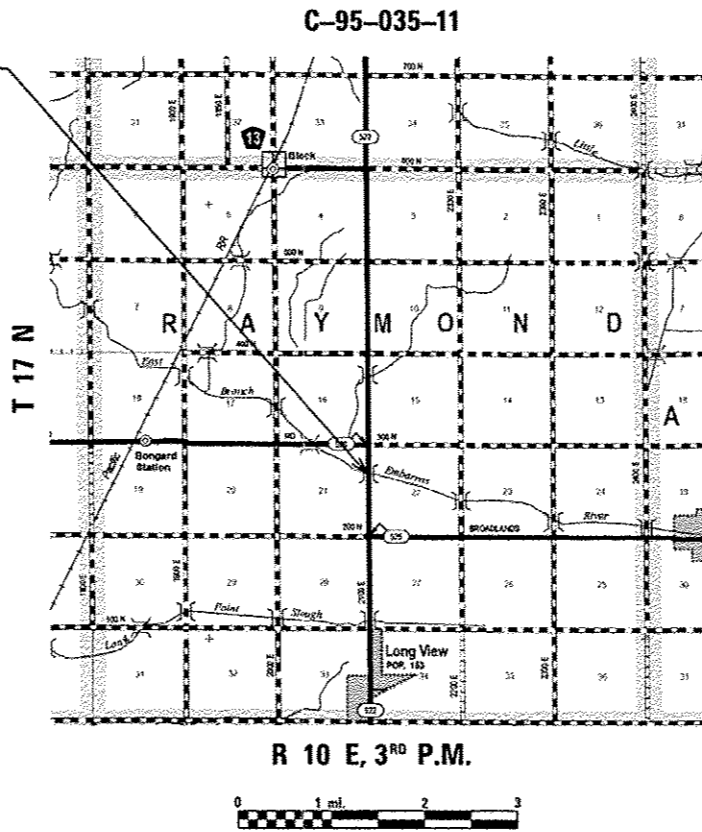
FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3 - 5

FUNCTIONAL CLASSIFICATION:  
MAJOR COLLECTOR

CURRENT ADT: (2014)  
750

P.V. = 88.0%  
S.U. = 9.3%  
M.U. = 2.7%

**PROPOSED STRUCTURE REPLACEMENT**  
EX. S.N. 010-0107  
PR. S.N. 010-0290  
STA. 378 + 50.00 (FAS 522)  
SINGLE SPAN, 65'-2" B-B ABUTMENTS  
30'-0" OUT-TO-OUT OF DECK  
NO SKEW  
IMPROVEMENT BEGINS AT STA. 375 + 50  
IMPROVEMENT ENDS AT STA. 382 + 00



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

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

PROJECT ENGINEER: JASON STULTS (217-465-4181)  
PROJECT MANAGER: RUSTIN KEYS (217-465-4181)  
**CONTRACT NO. 70598**

GROSS LENGTH = 650 FT = 0.123 MILE  
NET LENGTH = 650 FT = 0.123 MILE

North arrow pointing up.

*[Signature]*

**LICENSED PROFESSIONAL ENGINEER**  
KASHIF KHAN  
62059804  
**STATE OF ILLINOIS**

DATE: 08-19-2015  
SEAL EXPIRES: 11-30-2015  
DRAWINGS: 1-15, 29-40

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED *October 18, 2016*

*[Signature]*  
REGIONAL ENGINEER

*Dec 9 2016*  
*Muhammad M. Addis*  
ENGINEER OF DESIGN AND ENVIRONMENT

*Dec 9 2016*  
*[Signature]*  
DIRECTOR OF PROGRAM DEVELOPMENT

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OF THE STATE OF ILLINOIS**

INFRASTRUCTURE  
ENGINEERING INCORPORATED  
455 Fulton Street | Suite 104 | Peoria, IL 61602  
PH: 309.221.1111 | WWW.ASTERENGINEERING.COM

**INDEX OF SHEETS**

**SHEET**

**NUMBER DESCRIPTIONS**

1	COVER SHEET
2	INDEX OF SHEETS, STANDARDS AND GENERAL NOTES
3-5	SUMMARY OF QUANTITIES
6-7	TYPICAL SECTIONS
8-9	SCHEDULE OF QUANTITIES
10	ALIGNMENT, TIES AND BENCHMARKS
11	REMOVAL PLAN
12-14	PLAN AND PROFILE
15	EROSION AND SEDIMENT CONTROL PLAN
16-28	STRUCTURAL SHEETS
29-33	DETAILS
34-40	CROSS SECTIONS

**LIST OF STATE STANDARDS**

**STANDARD**

**NUMBER DESCRIPTION**

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401-02	METAL END SECTION FOR PIPE CULVERTS
542406-02	METAL END SECTIONS FOR PIPE ARCHES
601101-02	CONCRETE HEADWALL FOR PIPE DRAIN
602401-03	MANHOLE TYPE A
604001-04	FRAME AND LIDS TYPE 1
630001-11	STEEL PLATE BEAM GUARDRAIL
630301-07	SHOULDER WIDENING FOR TYPE 1 GUARDRAIL TERMINALS
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
666001-01	RIGHT-OF-WAY MARKERS
667101-02	PERMANENT SURVEY MARKERS
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24' (600 MM) FROM PAVEMENT EDGE
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701901-06	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
780001-05	TYPICAL PAVEMENT MARKINGS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

**COMMITMENTS**

THERE ARE NO COMMITMENTS FOR THIS CONTRACT

**GENERAL NOTES**

G.N.-100  
ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-100A  
ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

G.N.-105.09A  
ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N.-107.37  
UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES INVOLVED (QUALITY LEVEL C &/OR QUALITY LEVEL D) AND THE ACCURACY SHOULD BE CONSIDERED APPROXIMATE ONLY.

UTILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THESE ADJUSTMENTS ARE BEING PERFORMED. J.U.L.I.E. - JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS SYSTEM (800) 892-0123 OR 811.

G.N.-280  
TEMPORARY EROSION CONTROL SEEDING IS INCLUDED IN THIS CONTRACT TO SEED DISTURBED EARTH DURING TIME PERIODS WHEN PERMANENT SEEDING IS NOT ALLOWED. SOME OR ALL OF THE TEMPORARY EROSION CONTROL SEEDING WILL BE DELETED IF IT IS POSSIBLE TO PLACE PERMANENT SEEDING ON EARTH AT THE TIME OF THEIR COMPLETION.

G.N.-406  
THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

G.N. -406H  
MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION	F.A.S. ROUTE 522	
	HMA WEARING SURFACE HMA SURFACE COURSE	HMA FLEXIBLE APPROACH PAVEMENT CONNECTOR HMA BINDER
MIXTURE USE	PG 64-22	PG 64-22
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISIONS	SEE SPECIAL PROVISIONS
DESIGN AIR VOIDS	4.0% @ N=50	4.0% @ N=50
MIXTURE COMPOSITION	IL-9.5	IL-19.0 F.G.
FRICTION AGGREGATE	MIXTURE "C"	N/A
MIXTURE UNIT WEIGHT (LBS/SY/IN)	112.0	112.0
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA
SUBLOT SIZE	N/A	N/A

**PRIME COAT RATES**

SURFACE TYPE	RESIDUAL RATE
AGGREGATE SUBBASE	0.25 LB/SQ FT
FOG COAT (BETWEEN LIFTS)	0.025 LB/SQ FT

**GENERAL NOTES CONT'D**

G.N.-542  
BEFORE ORDERING PIPE CULVERTS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR THE EXACT LENGTHS.

G.N.-542B  
ALL THE ENTRANCE CULVERTS LENGTHS SHOWN IN THE PLANS WERE CALCULATED WITH THE ASSUMPTION THAT METAL PIPES AND METAL END SECTION WOULD BE USED.

G.N.-550  
BEFORE ORDERING STORM SEWERS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR THE EXACT LENGTHS.

G.N.-20038  
AN ALUMINUM TABLET OF THE TYPE SHOWN ON STANDARD 667101 SHALL BE PLACED ON THE PROPOSED STRUCTURE AS DIRECTED BY THE ENGINEER. THE BENCH MARK ELEVATION WILL BE ESTABLISHED AND MARKED BY THE DEPARTMENT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR PERMANENT BENCH MARKS.

**COMMITMENTS**

1. CONTACT MR. JOHN LANNON AT (217) 840-2573 (CELL) PRIOR TO BEGINNING WORK TO DISCUSS THE 15" AND 18" DRAINAGE TILES LOCATED ON THE NORTHEAST QUADRANT OF THE STRUCTURE. JOHN IS A MEMBER OF THE EMBARRAS RIVER SPECIAL DRAINAGE DISTRICT AND HAS A DESIRE TO TIE THESE TWO TILES TOGETHER.

2. THE PROPERTY OWNER IN THE NORTHWEST QUADRANT, MR. JOHN LANNON, REQUESTS THAT THE NEW FIELD ENTRANCE PROPOSED HEREIN AT RT STATION 375+88.1 BE CONSTRUCTED 20 FEET FURTHER SOUTH AT RT STATION 376+08.1.

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<p><b>INFRASTRUCTURE ENGINEERING</b> 456 Fulton Street   Suite 104   Peoria, IL 61602 P: 309.692.0200 F: 309.692.0211 www.infrastructure-eng.com</p>	USER NAME = hays-b PLOT SCALE = 1/8"=1'-0" PLOT DATE = 8/19/2015	DESIGNED - ZJH DRAWN - ZJH CHECKED - KJK DATE - 8/19/2015	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STANDARDS AND GENERAL NOTES SCALE: N/A SHEET 1 OF 1 SHEETS STA. TO STA.	F.A.S. RTE. 522 SECTION 41BR-1 COUNTY CHAMPAIGN TOTAL SHEETS 40 SHEET NO. 2 CONTRACT NO. 70598 ILLINOIS FED. AID PROJECT
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**SUMMARY OF QUANTITIES**

LOCATION OF WORK: FAS 522  
 CHAMPAIGN COUNTY  
 STA. 375+50 TO 382+00  
 RURAL 2-LANE  
 SN 010-0290

FUNDING: 80% FEDERAL/20% STATE  
 CONSTRUCTION TYPE CODE: 0011

TOTAL

CODE NO. ITEM UNIT QUANTITY

50104400	CONCRETE HEADWALL REMOVAL	EACH	1
50105220	PIPE CULVERT REMOVAL	FOOT	60
50200100	STRUCTURE EXCAVATION	CU YD	131
50300225	CONCRETE STRUCTURES	CU YD	43.1
<del>50300255</del>	<del>CONCRETE SUPERSTRUCTURE</del>	<del>CU YD</del>	<del>91.0</del>
50300260	BRIDGE DECK GROOVING	SQ YD	200
50300300	PROTECTIVE COAT	SQ YD	200
<b>50301350</b>	<b>CONCRETE SUPERSTRUCTURE (APPROACH SLAB)</b>	<b>CU YD</b>	<b>91.0</b>
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1895
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	27,620
50901050	STEEL RAILING, TYPE SM	FOOT	187
51200957	FURNISH METAL SHELL PILES 12" X 0.250"	FOOT	390
51202305	DRIVING PILES	FOOT	390
51203200	TEST PILE METAL SHELLS	EACH	2
51500100	NAME PLATES	EACH	1

14 • SPECIALTY ITEMS

LOCATION OF WORK: FAS 522  
 CHAMPAIGN COUNTY  
 STA. 375+50 TO 382+00  
 RURAL 2-LANE  
 SN 010-0290

FUNDING: 80% FEDERAL/20% STATE  
 CONSTRUCTION TYPE CODE: 0011

TOTAL

CODE NO. ITEM UNIT QUANTITY

54213459	END SECTIONS 24"	EACH	4
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	1
54214299	END SECTIONS, EQUIVALENT ROUND-SIZE 24"	EACH	2
54248510	CONCRETE COLLAR	CU YD	1.0
54200229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	95
54205479	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 24"	FOOT	50
550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	32
55100700	STORM SEWER REMOVAL 15"	FOOT	6
55100900	STORM SEWER REMOVAL 18"	FOOT	6
55101400	STORM SEWER REMOVAL 30"	FOOT	26
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	211
58300100	PORTLAND CEMENT MORTAR FAIRING CONCRETE	FOOT	569

19 • SPECIALTY ITEMS

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**SUMMARY OF QUANTITIES**

LOCATION OF WORK: FAS 522  
 CHAMPAIGN COUNTY  
 STA. 375+50 TO 382+00  
 RURAL 2-LANE  
 SN 010-0290

FUNDING: 80% FEDERAL/20% STATE

CONSTRUCTION TYPE CODE: 0011

LOCATION OF WORK: FAS 522  
 CHAMPAIGN COUNTY  
 STA. 375+50 TO 382+00  
 RURAL 2-LANE  
 SN 010-0290

FUNDING: 80% FEDERAL/20% STATE

CONSTRUCTION TYPE CODE: 0011

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	45
60221000	MANHOLES, TYPE A, 5' -DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
63200310	GUARDRAIL REMOVAL	FOOT	173
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	6
67100100	MOBILIZATION	L SUM	1
70300100	SHORT TERM PAVEMENT MARKINGS	FOOT	60
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	20
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1463
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	12
X0322936	REMOVE EXISTING FLARED END SECTION	EACH	1

14 • SPECIALTY ITEMS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
X0326806	WASHOUT BASIN	LSUM	1
X1200034	INLET TO BE ADJUSTED WITH NEW LID - SPECIAL	EACH	1
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	70
X6660410	REMOVE RIGHT-OF-WAY MARKERS	EACH	2
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	22
Z0004552	APPROACH SLAB REMOVAL	SO YD	135
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0038700	PERMANENT BENCHMARKS	EACH	1
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES, 4"	FOOT	122

10 • SPECIALTY ITEMS

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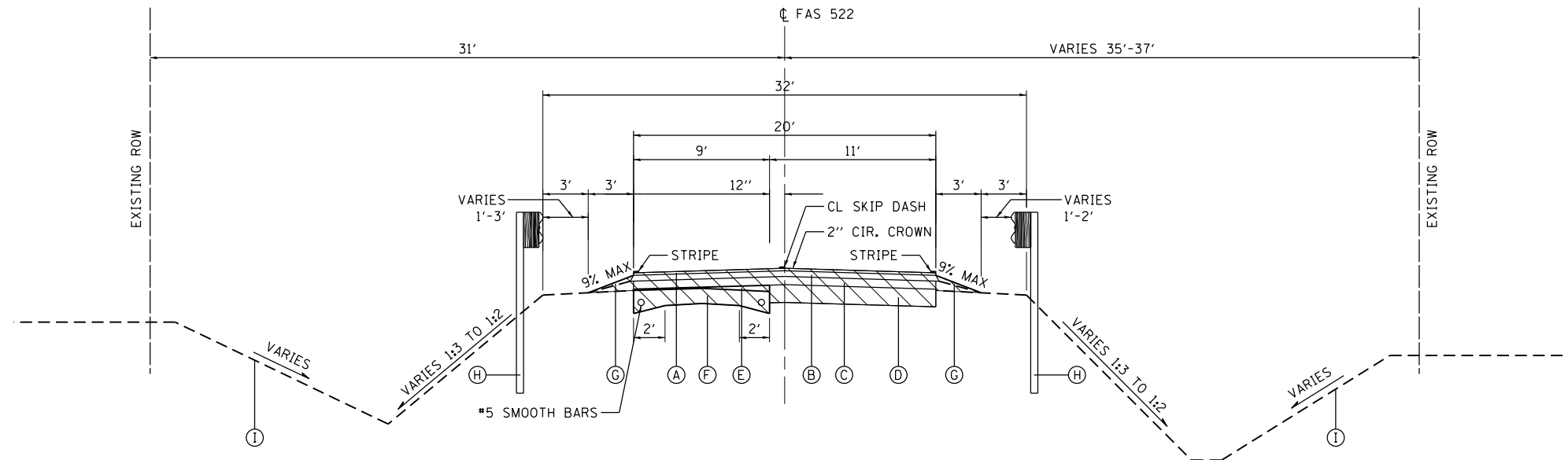
**INFRASTRUCTURE ENGINEERING**  
 456 Fulton Street | Suite 104 | Peoria, IL 61602  
 P: 309.697.0200 | F: 309.697.0211 | www.infrastructureeng.com

USER NAME: jguyrb	DESIGNED - MRS	REVISED -
PLOT SCALE: 40,0000' / 1" =	DRAWN - MRS	REVISED -
PLOT DATE: 10/19/2016	CHECKED - ZJH	REVISED -
	DATE - 4/21/2015	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: N/A		SHEET 3 OF 3 SHEETS		STA. _____	TO STA. _____
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	41BR-1	CHAMPAIGN	40	5
CONTRACT NO. 70598				
ILLINOIS FED. AID PROJECT				

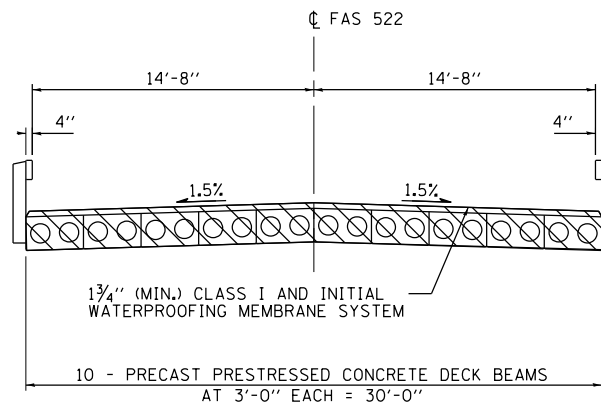


**LEGEND**

- (A) EXISTING A-1 SURFACE TREATMENT
  - (B) EXISTING COLD MIX ASPHALT, 2 1/4"
  - (C) EXISTING HOT-MIX ASPHALT, 3 1/4"
  - (D) EXISTING P.C.C. BASE COURSE, 7"
  - (E) EXISTING HOT-MIX ASPHALT LEVELING BINDER, 1/2" (MIN.)
  - (F) EXISTING 9'-6"-9" P.C.C. PAVEMENT
  - (G) EXISTING AGGREGATE WEDGE SHOULDER, TYPE B
  - (H) EXISTING GUARDRAIL, TO BE REMOVED
  - (I) EXISTING GROUND
- REMOVAL ITEM

**EXISTING TYPICAL ROADWAY SECTION**

STA. 375+50.00 TO STA. 378+07.36  
 STA. 378+92.64 TO STA. 382+00.00  
 BRIDGE APPROACH AND BRIDGE OMISSION STA. 378+07.36 TO STA. 378+92.64



**EXISTING STRUCTURE TYPICAL CROSS SECTION**

STA. 378+26.61 TO STA. 378+73.39

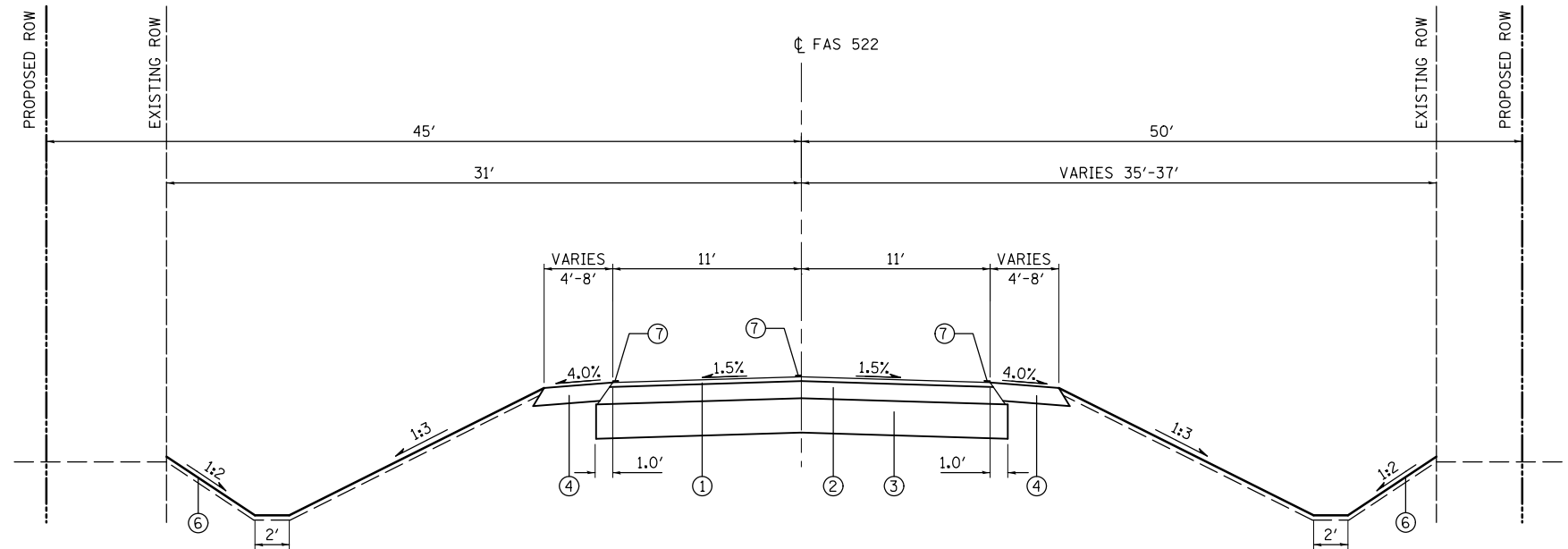
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<b>INFRASTRUCTURE ENGINEERING</b> <small>INCORPORATED</small> 456 Fulton Street   Suite 104   Peoria, IL 61602 P 309.637.9000   F 309.637.9210   www.infrastructure-eng.com	USER NAME = afernandez	DESIGNED - ZJH	REVISED -
	PLOT SCALE = 10.0000' / in.	DRAWN - ZJH	REVISED -
	PLOT DATE = 8/19/2015	CHECKED - KJK	REVISED -
		DATE - 8/19/2015	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>			
SCALE: N.T.S.	SHEET 1	OF 2 SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	41BR-1	CHAMPAIGN	40	6
CONTRACT NO. 70598				
ILLINOIS FED. AID PROJECT				



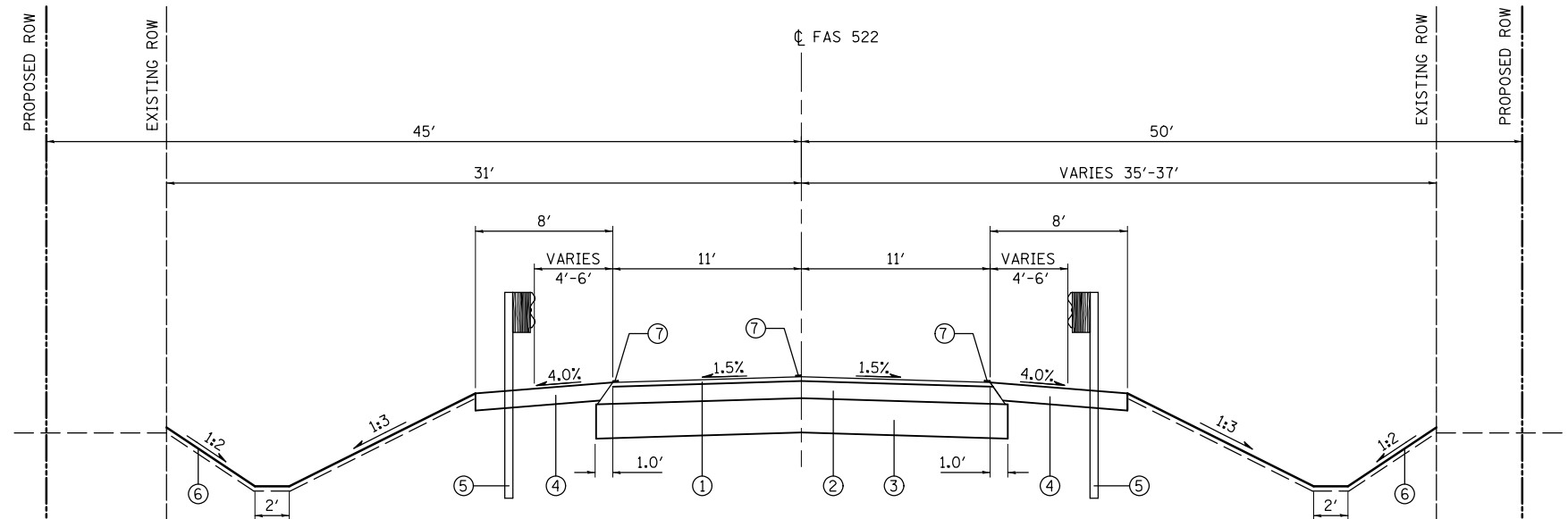
**PROPOSED TYPICAL ROADWAY SECTION**

STA. 375+50.00 TO STA. 377+09.40  
 STA. 379+90.60 TO STA. 382+00.00

NOTE: ANY FILL REQUIRED BELOW THE SUBBASE GRANULAR MATERIAL, TYPE A, 12"  
 WILL BE PAID FOR AS AGGREGATE SUBGRADE IMPROVEMENT

**LEGEND**

- ① PROPOSED HMA SURFACE COURSE, MIX "C", N50, 168 LB/SY
- ② PROPOSED HMA BINDER COURSE, IL-19.0 F.G., N50, 672 LB/SY
- ③ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A, 12"
- ④ PROPOSED AGGREGATE SHOULDERS, TYPE B, 6"
- ⑤ PROPOSED TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT/6A
- ⑥ PROPOSED SEEDING, CLASS 2A AND TOPSOIL FURNISH AND PLACE, 4"
- ⑦ PROPOSED PAINT PAVEMENT MARKING LINE, 4"



**PROPOSED TYPICAL ROADWAY SECTION**

STA. 377+09.40 TO STA. 377+82.42  
 STA. 379+17.58 TO STA. 379+90.60  
 CONNECTOR, APPROACH AND BRIDGE OMISSION:  
 STA. 377+82.42 TO STA. 379+17.58

NOTE: ANY FILL REQUIRED BELOW THE SUBBASE GRANULAR MATERIAL, TYPE A, 12"  
 WILL BE PAID FOR AS AGGREGATE SUBGRADE IMPROVEMENT

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PLOT DATE = 5/10/2016	DATE - 8/19/2015	REVISED -

<b>TYPICAL SECTIONS</b>			
SCALE: N.T.S.	SHEET 2	OF 2 SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	41BR-1	CHAMPAIGN	40	7
CONTRACT NO. 70598				
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE										
LOCATION				EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE *	FILL	EARTHWORK BALANCE EXCESS (+) OR SHORTAGE (-)	FURNISHED EXCAVATION	TOPSOIL EXCAVATION AND PLACEMENT	CHANNEL ** EXCAVATION
LT/RT	STA	TO	STA	20200100	CU YD	CU YD	CU YD	20400800	21101505	20300100
				CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
	375+50.0		378+17.0	250	188	290	-105		127	
	378+22.0		378+78.0							910
	378+83.0		382+00.0	260	195	420	-225		156	
	TOTAL			510	383	710	-330	330	283	910

- \* SHRINKAGE FACTOR = 25%
- \*\* CHANNEL EXCAVATION MATERIAL IS CONSIDERED NOT SUITABLE FOR USE IN EMBANKMENT

PAVEMENT SCHEDULE																
LOCATION				AGGREGATE SUBGRADE IMPROVEMENT	SUBBASE GRANULAR MATERIAL, TYPE A 12"	AGGREGATE BASE COURSE, TYPE B 6"	AGGREGATE SURFACE COURSE, TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0 FG, N50	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	BITUMINOUS MATERIALS (PRIME COAT)	INCIDENTAL HOT-MIX ASPHALT SURFACING	PAVEMENT REMOVAL	AGGREGATE SHOULDERS, TYPE B 6"	APPROACH SLAB REMOVAL	
LT/RT	STA	TO	STA	30300001	31100910	35101800	40200800	40600275	40603082	40603310	40800025	40800050	44000100	48101500	Z0004552	
				CU YD	SQ YD	SQ YD	TON	POUND	TON	TON	POUND	TON	SQ YD	SQ YD	SQ YD	
	375+50.0		377+82.4		568			1406	191	48				254		
RT	375+50.0		376+31.5			27					61	11				
	375+50.0		378+06.7	27									570			
RT	375+88.1		377+88.4				38									
	378+06.7		378+26.5											11		
	378+18.4		378+81.6					474		31					68	
	378+74.5		378+94.2												67	
	378+94.2		382+00.0	39									683			
	379+11.6		379+17.6											11		
	379+17.6		382+00.0		690			1,709	232	58				255		
RT	380+19.5		381+03.5			28					63	12				
RT	380+61.5						40									
LT	380+78.6		381+62.2			28					63	12				
LT	381+20.6						35									
	TOTAL			66	1258	83	113	3589	423	137	187	35	40	1253	531	135

SEEDING SCHEDULE							
LOCATION				SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT
LT/RT	STA	TO	STA	25000210	25000400	25000500	25000600
				ACRE	POUND	POUND	POUND
RT	375+50.0		378+17.4	0.15	13.5	13.5	13.5
LT	375+50.0		378+17.4	0.20	18.0	18.0	18.0
RT	378+82.6		382+00.0	0.20	18.0	18.0	18.0
LT	378+82.6		382+00.0	0.20	18.0	18.0	18.0
	TOTAL			0.75	68	68	68

EROSION CONTROL SCHEDULE										
LOCATION				EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION	STONE RIPRAP, CLASS A4	FILTER FABRIC
LT/RT	STA	TO	STA	25100630	28000250	28000305	28000400	28000500	28100107	28200200
				SQ YD	POUND	FOOT	FOOT	EACH	SQ YD	SQ YD
RT	375+50.0		378+17.4	857	30	53	38	1		
LT	375+50.0		378+17.4	816	40	54	36		797	797
	378+17.4		378+82.6							
RT	378+82.6		382+00.0	971	40	54	39	2		
LT	378+82.6		382+00.0	815	40	54	36	4		
	TOTAL			3459	150	215	148	7	797	797

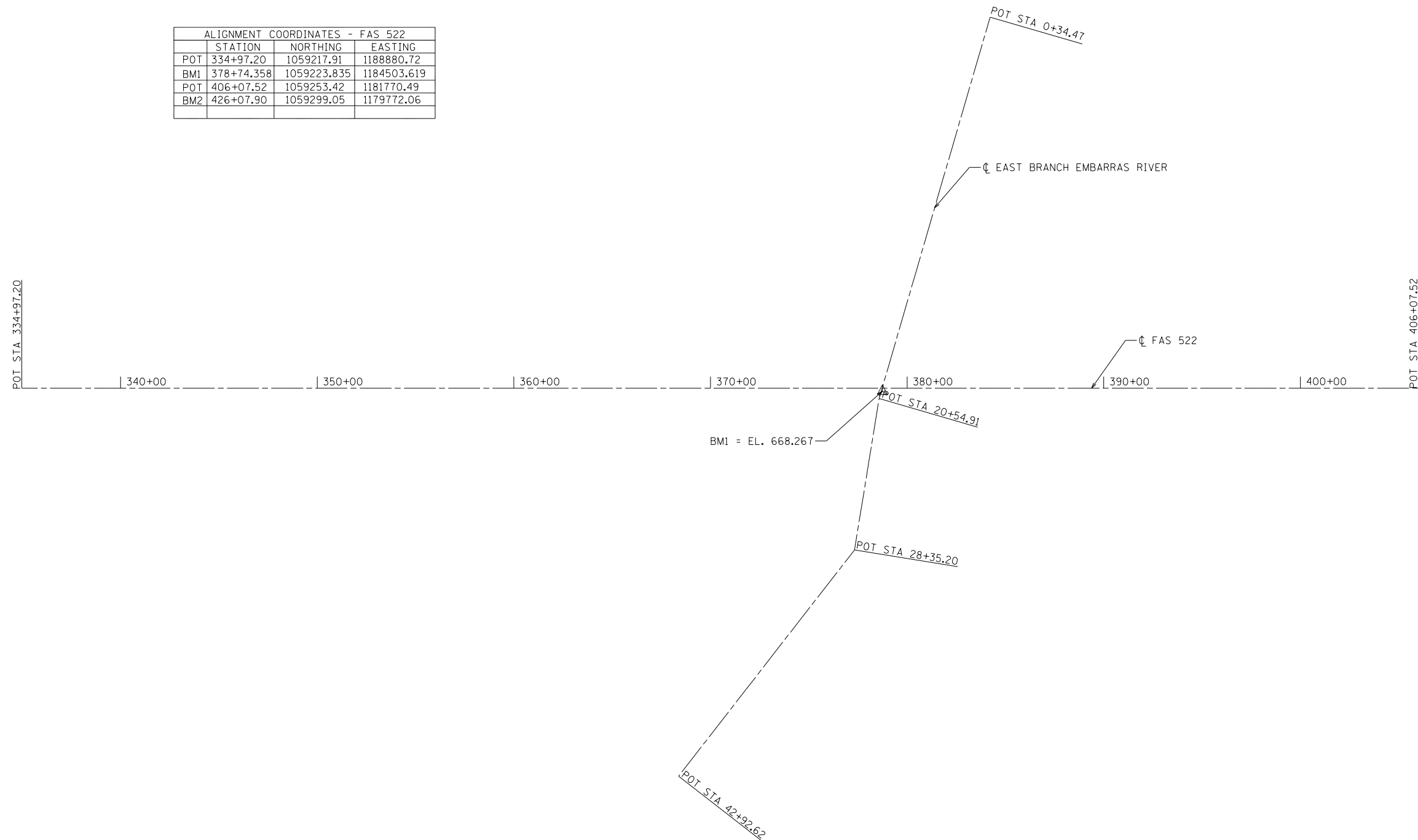
NOTE: TEMPORARY EROSION CONTROL SEEDING QUANTITY ALLOWS FOR TWO APPLICATIONS

Default per\\llb\EBID\MEC\Illinois\p\1001\Documents\DOT D\Fices\District 5\Projects\0570598\CAD\Drawings\0570598-sht-schedule.dgn 8/14/2016 4:14:47 AM





ALIGNMENT COORDINATES - FAS 522			
POT	STATION	NORTHING	EASTING
	334+97.20	1059217.91	1188880.72
BM1	378+74.358	1059223.835	1184503.619
POT	406+07.52	1059253.42	1181770.49
BM2	426+07.90	1059299.05	1179772.06

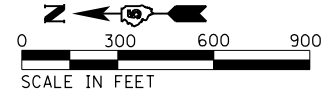


BM1 = EL. 668.267

BM2 = EL. 675.67

BENCHMARK 1 (BM1): BRASS DISK LOCATED ON SOUTHWEST QUADRANT, SOUTHWEST ABUTMENT OF BRIDGE 15.935 FEET RIGHT OF CENTERLINE AT STA. 378+74.358, ELEVATION = 668.267.

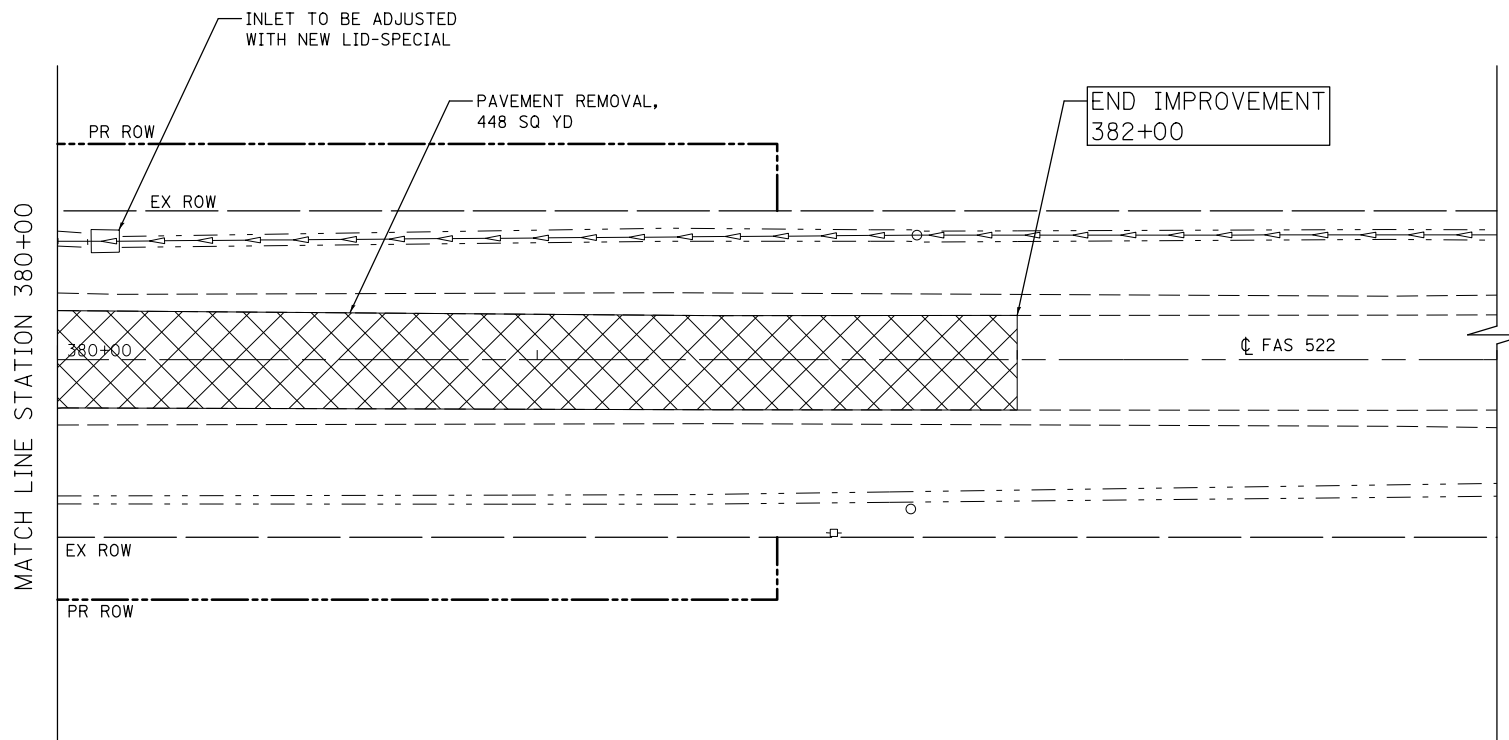
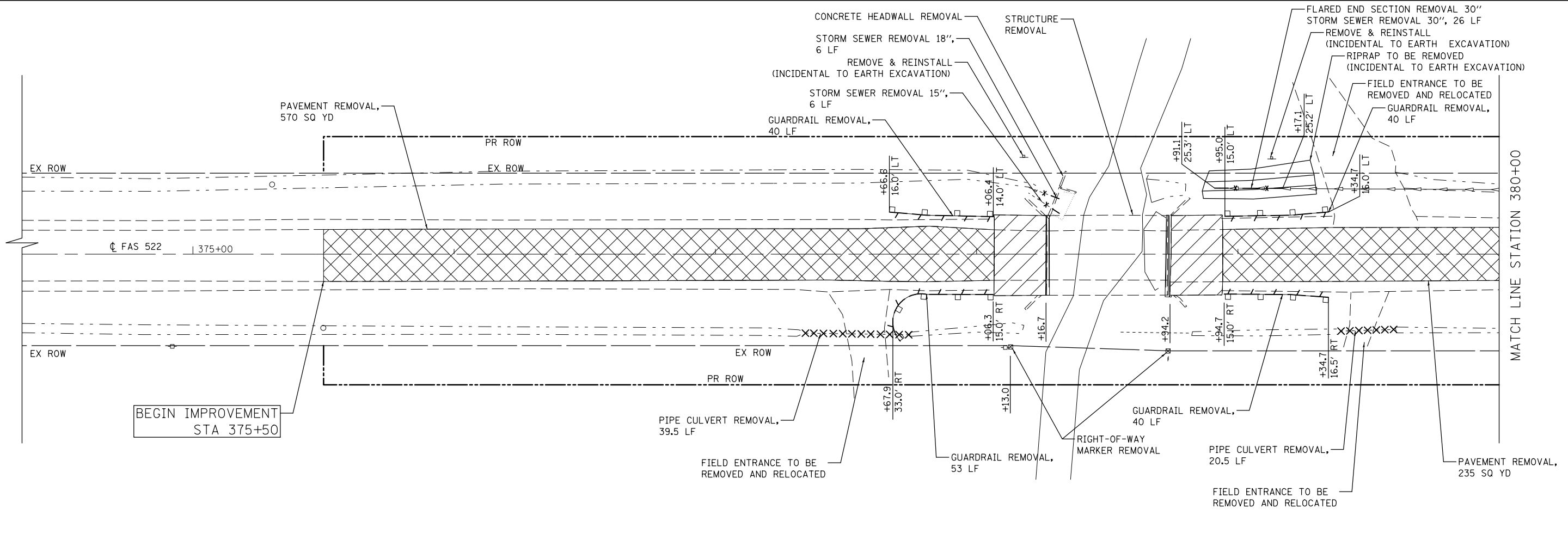
BENCHMARK 2 (BM2): CHISELED "O" ON TOP OF NORTHEAST CORNER OF CULVERT ON NORTHEAST SIDE OF INTERSECTION OF FAS 522 AND BROADLANDS ROAD, 34.5 FEET LEFT OF ROADWAY CENTERLINE AT STA. 426+07.90, ELEVATION = 675.67.



8/19/2015 4:05:53 PM DefPlot: P:\P-11\1418-00 PTB 158-024 DS Phase 1 & 11\VO 4\DDN\CADD\_Sheets\Roadway\DS70598-ah1-ATB.dgn

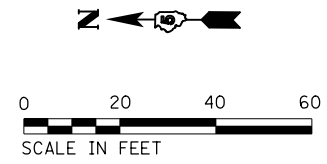
<b>INFRASTRUCTURE ENGINEERING</b> <small>INCORPORATED</small> 456 Fulton Street   Suite 104   Peoria, IL 61602 P 309.637.9000   F 309.637.9210   www.infrastructure-eng.com	USER NAME = afernandez	DESIGNED - AF	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ALIGNMENT, TIES AND BENCHMARKS</b>			F.A.S. RTE. 522	SECTION 41BR-1	COUNTY CHAMPAIGN	TOTAL SHEETS 40	SHEET NO. 10
	PLOT SCALE = 600:0.0000 ftsft / in.	CHECKED - KJK	REVISED -		SCALE: 1"=300'	SHEET 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 70598			
	PLOT DATE = 8/19/2015	DATE - 8/19/2015	REVISED -		ILLINOIS FED. AID PROJECT							

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**LEGEND**

- GUARDRAIL REMOVAL
- STORM SEWER REMOVAL
- PIPE CULVERT REMOVAL
- PAVEMENT REMOVAL
- APPROACH SLAB REMOVAL



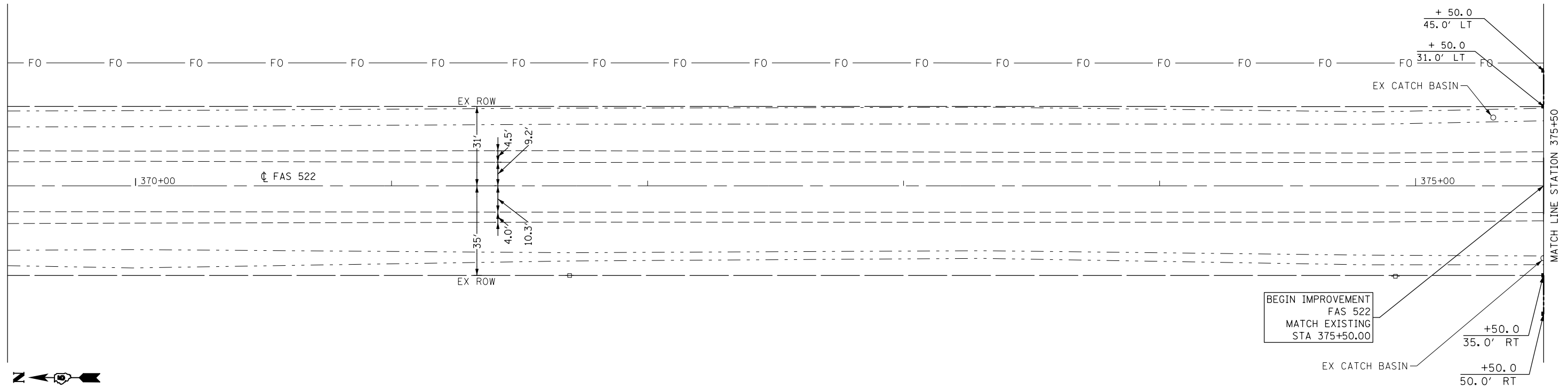
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DRAWN - ZJH	REVISIONS -	
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PLOT DATE = 5/9/2016	DATE - 8/19/2015	REVISED -

**REMOVAL PLAN**

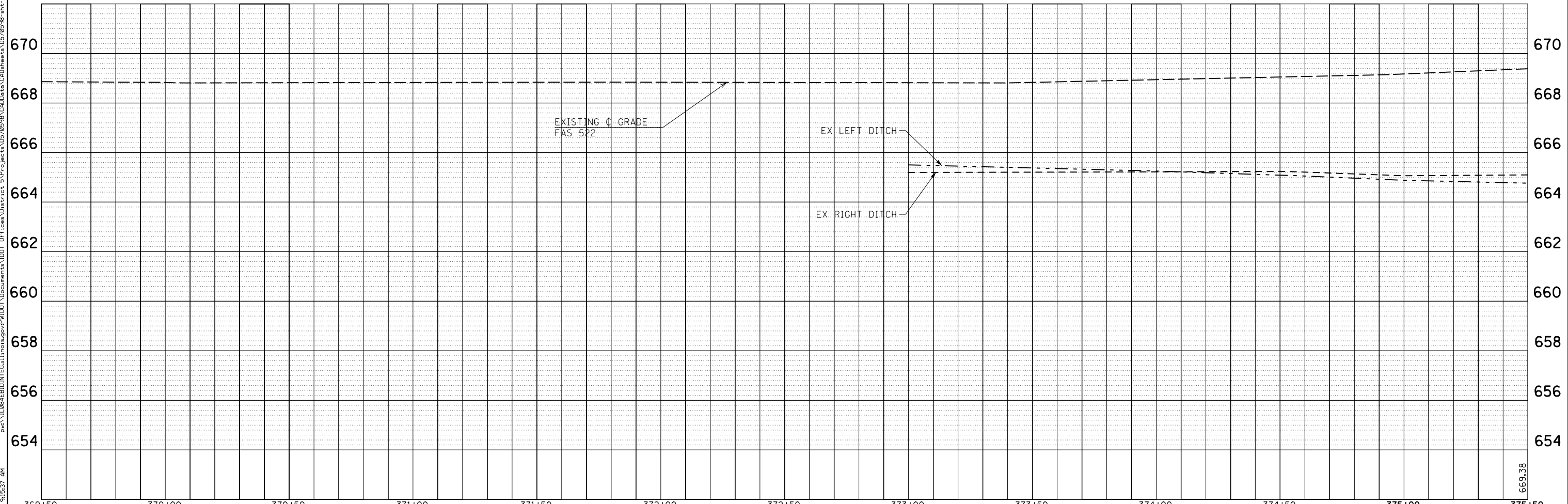
SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. 374+34.60 TO STA. 383+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	41BR-1	CHAMPAIGN	40	11
CONTRACT NO. 70598				
ILLINOIS FED. AID PROJECT				

SEC. 22 - T17N - R10E - 3RD PM



SEC. 21 - T17N - R10E - 3RD PM



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369+50	370+00	370+50	371+00	371+50	372+00	372+50	373+00	373+50	374+00	374+50	375+00	375+50					
USER NAME = keyarb DESIGNED - AF DRAWN - AF PLOT SCALE = 40.0000' / in. PLOT DATE = 5/10/2016				CHECKED - KJK DATE - 8/19/2015				REVISIONS REVISIONS REVISIONS REVISIONS REVISIONS				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION					
PLAN & PROFILE SN 010-0107 (E) SN 010-0290 (P)												F.A.S. RTE. 522	SECTION 41BR-1	COUNTY CHAMPAIGN	TOTAL SHEETS 40	SHEET NO. 12	CONTRACT NO. 70598
SCALE: 1"=20' SHEET 1 OF 3 SHEETS STA. 369+50 TO STA. 375+50												ILLINOIS FED. AID PROJECT					







Existing Benchmark: Chiseled "□" on top of northeast corner of culvert on northeast side of intersection of County Highway 12 and Broadlands Road, 34.5 feet left of the roadway centerline at Station 426+07.90. Elevation = 675.67.

Existing Structure: S.N. 010-0107 built in 1924 as State Aid Route 12. Section 41B-15D at Station 115+14. Wearing surface replaced in 1960. Superstructure replaced and widened in 1982 as F.A.S. Route 522, Section 41-BR at Station 378+50.00. The existing structure consists of one span of precast prestressed deck beams on cast-in-place concrete closed abutments. Length = 46'-9 3/8" (back-to-back of original abutments). Width = 30'-0" (out-to-out deck). Traffic is to be rerouted during construction.

No salvage

### DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	N. Abut.	S. Abut.
	665.06	665.06



Steven P. Karlowski  
 EXP. 11/30/2016  
 DATE: 07/27/2015

### INDEX OF SHEETS

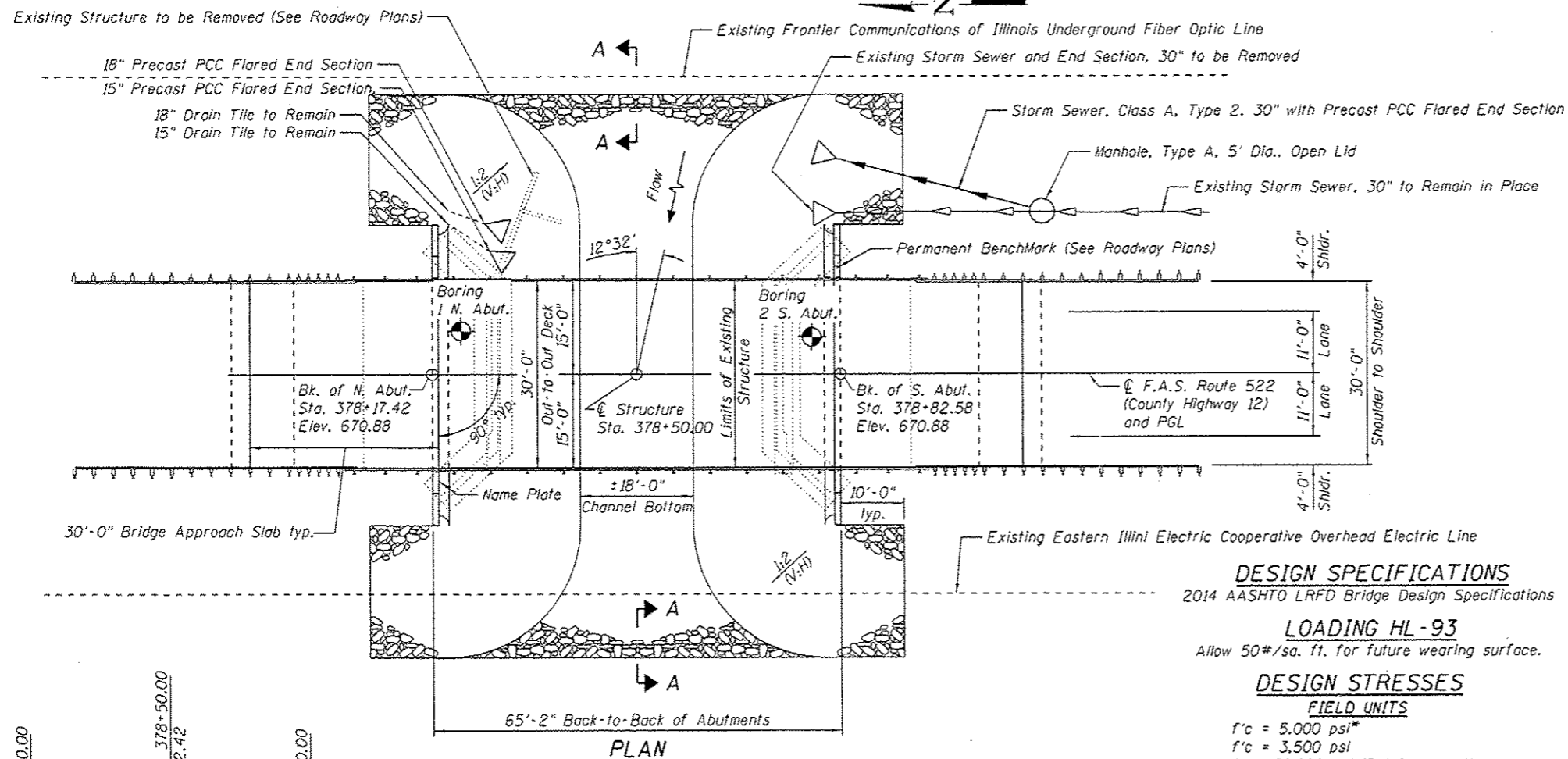
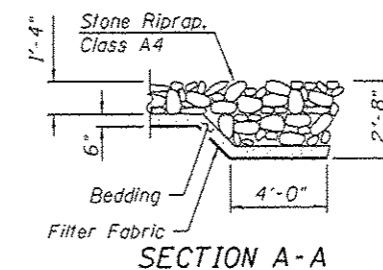
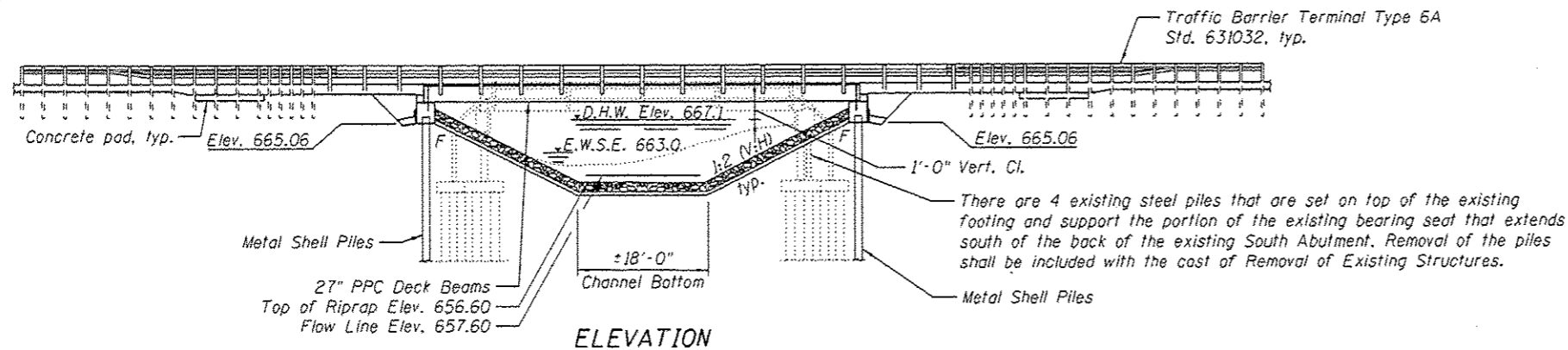
- 1 General Plan and Elevation
- 2 General Notes and Drainage Details
- 3 Top of North Approach Slab Elevations
- 4 Top of South Approach Slab Elevations
- 5 Superstructure
- 6 Steel Railing, Type SM with Hot-Mix Asphalt Wearing Surface
- 7 Bridge Approach Slab Details (1 of 2)
- 8 Bridge Approach Slab Details (2 of 2)
- 9 27"x36" PPC Deck Beam
- 10 27"x36" PPC Deck Beam Details
- 11 Abutments
- 12 Metal Shell Pile Details
- 13 Soil Boring Logs

**APPROVED**  
 For Structural Adequacy Only

*Dr. Carl Krueger*  
 Engineer of Bridges & Structures

STA. 378+50.00  
 BUILT 20... BY  
 STATE OF ILLINOIS  
 F.A.S. RT. 522 SEC. 41BR-1  
 LOADING HL-93  
 STR. NO. 010-0290

**NAME PLATE**  
 See Std. 515001



### TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq Yd		797	797
Filter Fabric	Sq Yd		797	797
Hot-Mix Asphalt Surface Course, Mix "C", NSO	Ton	25		25
Removal Of Existing Structures	Each	0.5	0.5	1
Structure Excavation	Cu Yd		131	131
Concrete Structures	Cu Yd		43.1	43.1
Bridge Deck Grooving	Sq Yd	200		200
Protective Coat	Sq Yd	200		200
Concrete Superstructure (Approach Slab)	Cu Yd		91.0	91.0
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq Ft	1,895		1,895
Reinforcement Bars, Epoxy Coated	Pound	19,870	7,750	27,620
Steel Railing, Type SM	Foot	187		187
Furnishing Metal Shell Piles 12" X 0.250"	Foot		390	390
Driving Piles	Foot		390	390
Test Pile Metal Shells	Each		2	2
Name Plates	Each	1		1
Waterproofing Membrane System	Sq Yd	211		211
Portland Cement Mortar Fairing Course	Foot	569		569
Geocomposite Wall Drain	Sq Yd		45	45
Granular Backfill For Structures	Cu Yd		70	70
Asbestos Bearing Pad Removal	Each	22		22
Pipe Underdrains for Structures, 4"	Foot		122	122

\*Approach slab concrete shall have a 28-day mix design with a compressive strength of 5,000 psi.

### DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications

### LOADING HL-93

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

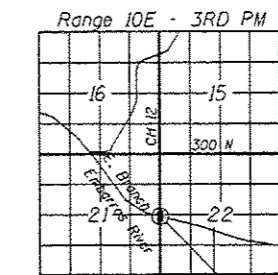
### DESIGN STRESSES

#### FIELD UNITS

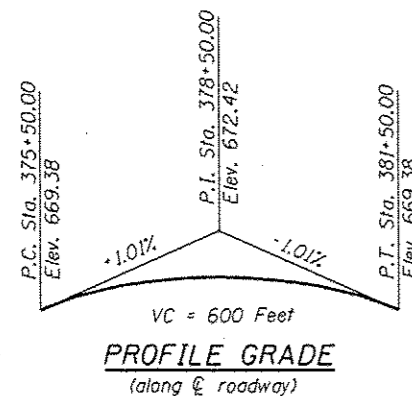
- f'c = 5,000 psi\*
- f'c = 3,500 psi
- f'y = 60,000 psi (Reinforcement)
- f'ci = 6,000 psi
- f'ci = 5,000 psi
- f's = 270,000 psi (1/2" Low Lax Strands)
- f'si = 201,960 psi (1/2" Low Lax Strands)

### SEISMIC DATA

Seismic Performance Zone (SPZ) = 1  
 Design Spectral Acceleration at 1.0 sec. (S<sub>01</sub>) = 0.104g  
 Design Spectral Acceleration at 0.2 sec. (S<sub>05</sub>) = 0.198g  
 Soil Site Class = C



**GENERAL PLAN & ELEVATION**  
**COUNTY HIGHWAY 12 OVER**  
**E. BRANCH OF EMBARRAS RIVER**  
**F.A.S. ROUTE 522 SEC. 41BR-1**  
**CHAMPAIGN COUNTY**  
**STATION 378+50.00**  
**STRUCTURE NO. 010-0290**



### WATERWAY INFORMATION

Drainage Area = 13.40 Sq. Mi. Low Grade Elev. 668.30 @ Sta. 386+70.00

Flood	Freq. Yr.	C.F.S.		Opening Sq. Ft.		Not. H.W.E.	Head - Ft.		Headwater El.	
		0	1510	Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	20	1510	297	351	667.1	1.2	1.0	668.3	668.1	
Base	100	1920	323	390	667.7	1.2	1.1	668.9	668.8	
Overtopping	30	1846		364	667.3		1.1		668.4	
Max. Calc.										

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

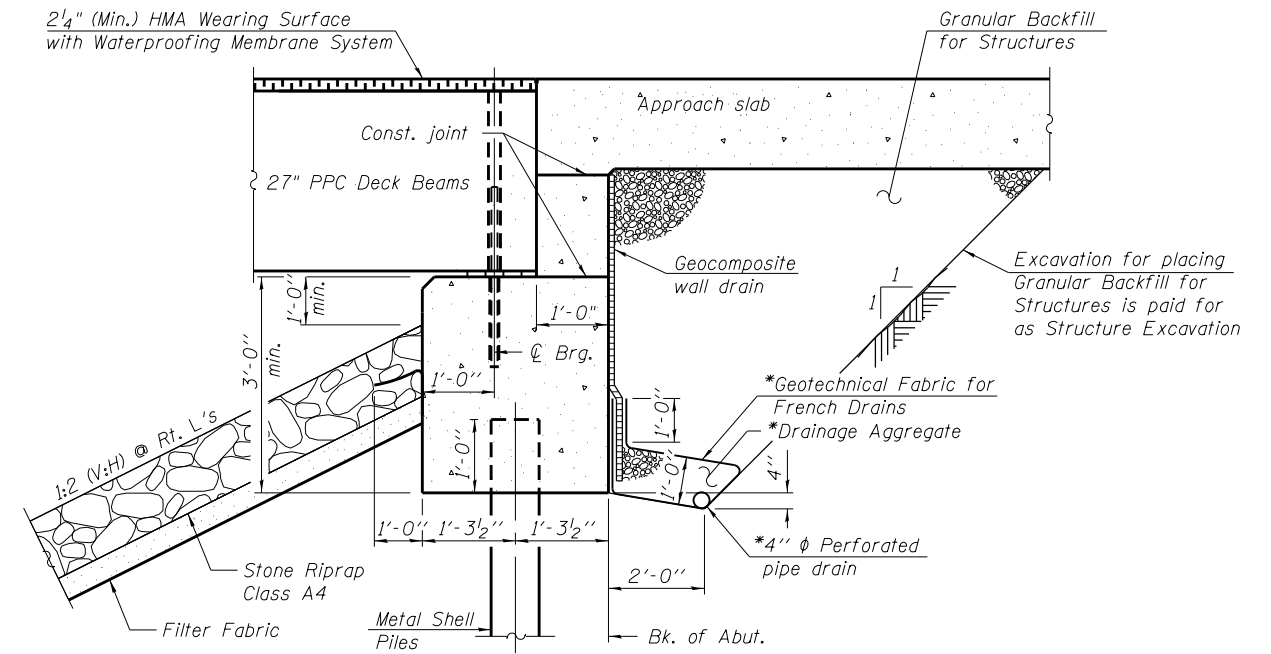
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	41BR-1	CHAMPAIGN	40	16
				CONTRACT NO. 70598
ILLINOIS FED. AID PROJECT				

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**GENERAL NOTES**

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Protective coat shall not be applied to surfaces which Waterproofing Membrane System is applied.
3. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
4. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
5. Removal of the existing steel railings attached to the existing approach slabs is included in the cost of Removal of Existing Structures.
6. The concrete superstructure shall be Class BS Concrete, except as follows, when Steel Bridge Rail is used in conjunction with concrete superstructure, the 14-day mix design shall be replaced by a 28-day mix design with a compressive strength of 5,000 psi and a design flexural strength of 800 psi prior to opening to traffic.



**DRAINAGE DETAIL  
SECTION THRU ABUTMENT**

\* Included in the cost of Pipe Underdrain for Structures.

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.

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	CHECKED - LAN	REVISED
PLOT SCALE =	DRAWN - LAN	REVISED
PLOT DATE = 8/20/2015	CHECKED - SPK	REVISED

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	41BR-1	CHAMPAIGN	40	17
			CONTRACT NO. 70598	
ILLINOIS FED. AID PROJECT				

EAST EDGE OF SHOULDER

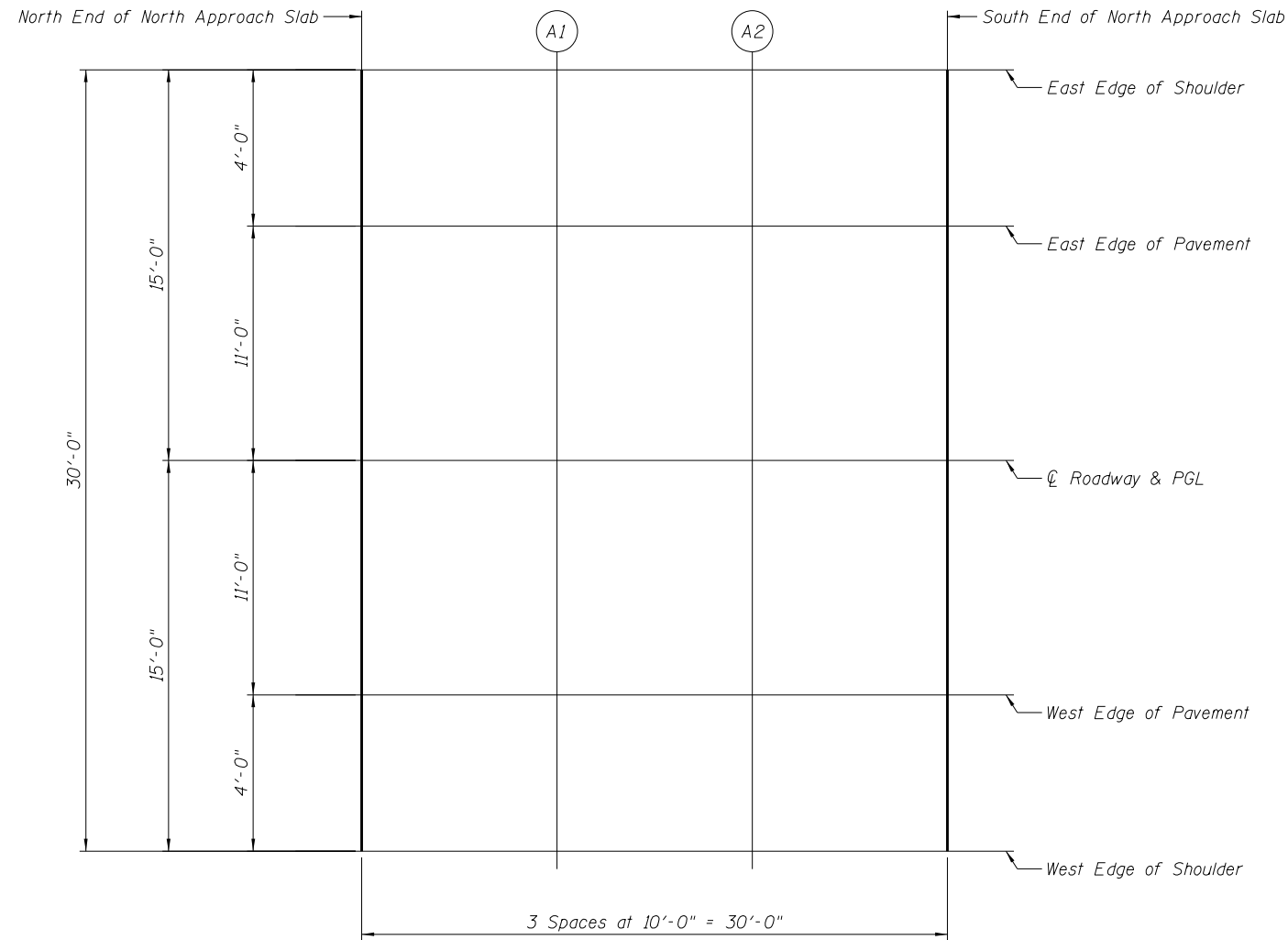
Location	Station	Offset	Theoretical Grade Elevations
N. End N. Appr. Slab	377+88.42	-15.00	670.60
A1	377+98.42	-15.00	670.62
A2	378+08.42	-15.00	670.64
S. End N. Appr. Slab	378+18.42	-15.00	670.65

EAST EDGE OF PAVEMENT

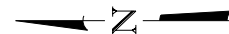
Location	Station	Offset	Theoretical Grade Elevations
N. End N. Appr. Slab	377+88.42	-11.00	670.66
A1	377+98.42	-11.00	670.68
A2	378+08.42	-11.00	670.70
S. End N. Appr. Slab	378+18.42	-11.00	670.71

CL ROADWAY & PGL

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Appr. Slab	377+88.42	0.00	670.84
A1	377+98.42	0.00	670.86
A2	378+08.42	0.00	670.87
S. End N. Appr. Slab	378+18.42	0.00	670.88



PLAN



WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Appr. Slab	377+88.42	11.00	670.66
A1	377+98.42	11.00	670.68
A2	378+08.42	11.00	670.70
S. End N. Appr. Slab	378+18.42	11.00	670.71

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Appr. Slab	377+88.42	15.00	670.60
A1	377+98.42	15.00	670.62
A2	378+08.42	15.00	670.64
S. End N. Appr. Slab	378+18.42	15.00	670.65

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**EAST EDGE OF SHOULDER**

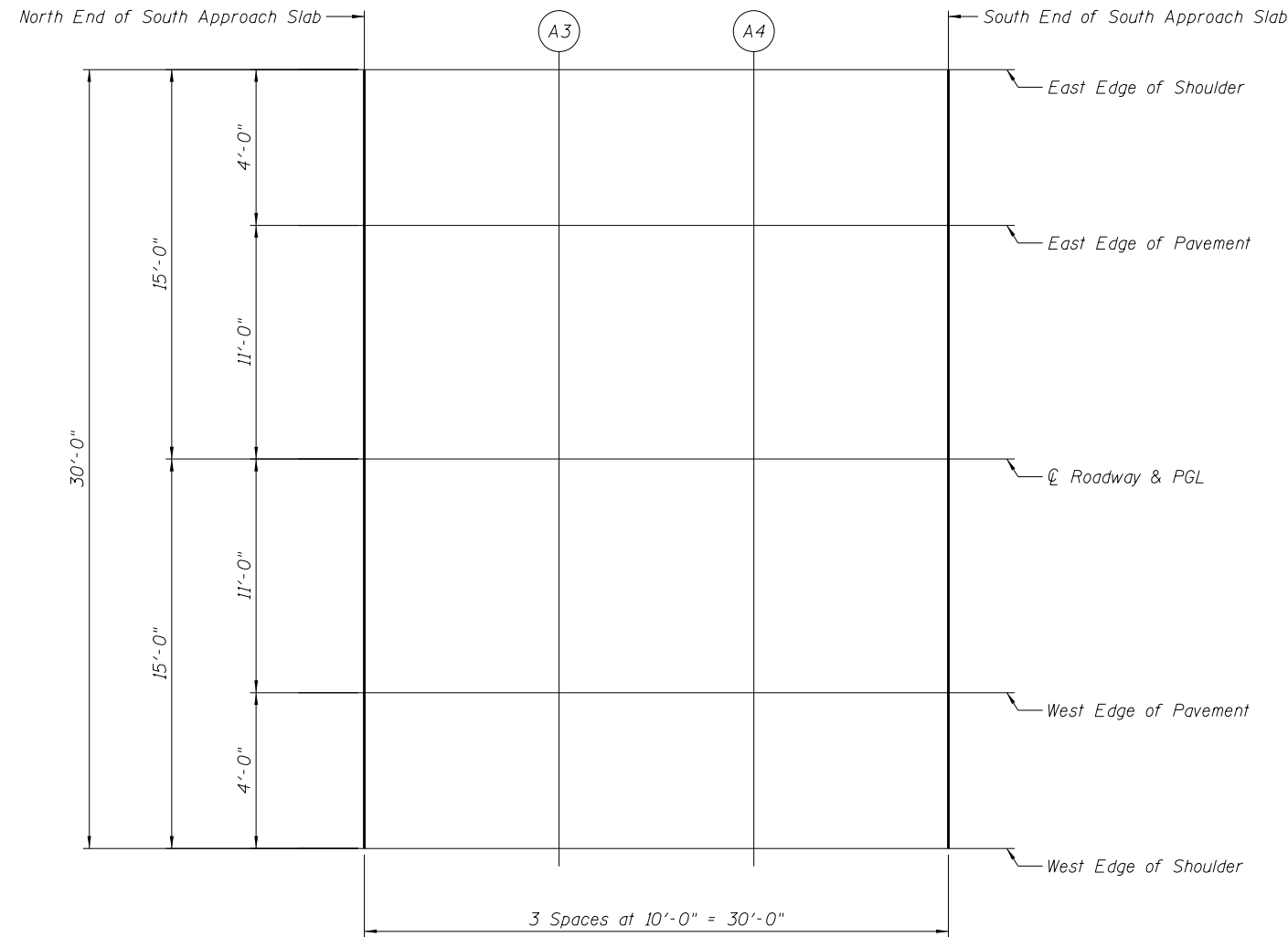
Location	Station	Offset	Theoretical Grade Elevations
N. End S. Appr. Slab	378+81.58	-15.00	670.65
A3	378+91.58	-15.00	670.64
A4	379+01.58	-15.00	670.62
S. End S. Appr. Slab	379+11.58	-15.00	670.60

**EAST EDGE OF PAVEMENT**

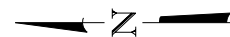
Location	Station	Offset	Theoretical Grade Elevations
N. End S. Appr. Slab	378+81.58	-11.00	670.71
A3	378+91.58	-11.00	670.70
A4	379+01.58	-11.00	670.68
S. End S. Appr. Slab	379+11.58	-11.00	670.66

**CL ROADWAY & PGL**

Location	Station	Offset	Theoretical Grade Elevations
N. End S. Appr. Slab	378+81.58	0.00	670.88
A3	378+91.58	0.00	670.87
A4	379+01.58	0.00	670.86
S. End S. Appr. Slab	379+11.58	0.00	670.84



**PLAN**



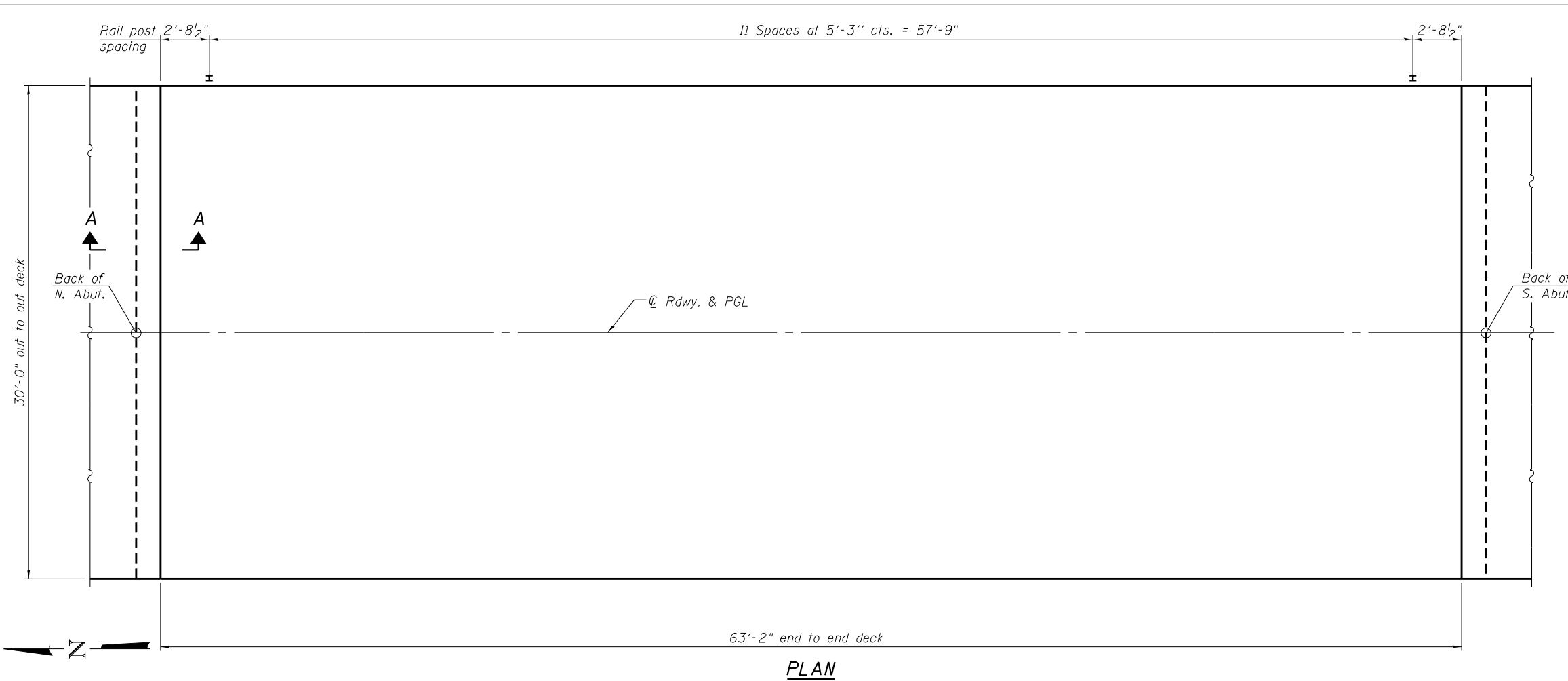
**WEST EDGE OF PAVEMENT**

Location	Station	Offset	Theoretical Grade Elevations
N. End S. Appr. Slab	378+81.58	11.00	670.71
A3	378+91.58	11.00	670.70
A4	379+01.58	11.00	670.68
S. End S. Appr. Slab	379+11.58	11.00	670.66

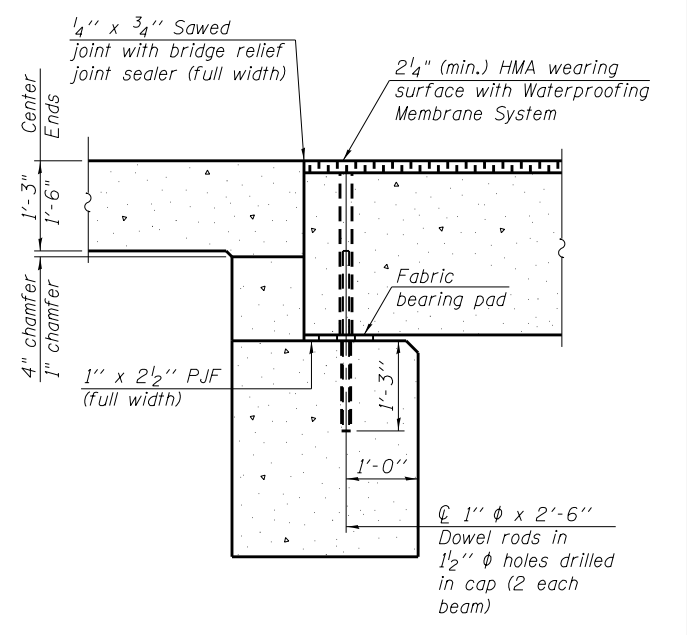
**WEST EDGE OF SHOULDER**

Location	Station	Offset	Theoretical Grade Elevations
N. End S. Appr. Slab	378+81.58	15.00	670.65
A3	378+91.58	15.00	670.64
A4	379+01.58	15.00	670.62
S. End S. Appr. Slab	379+11.58	15.00	670.60

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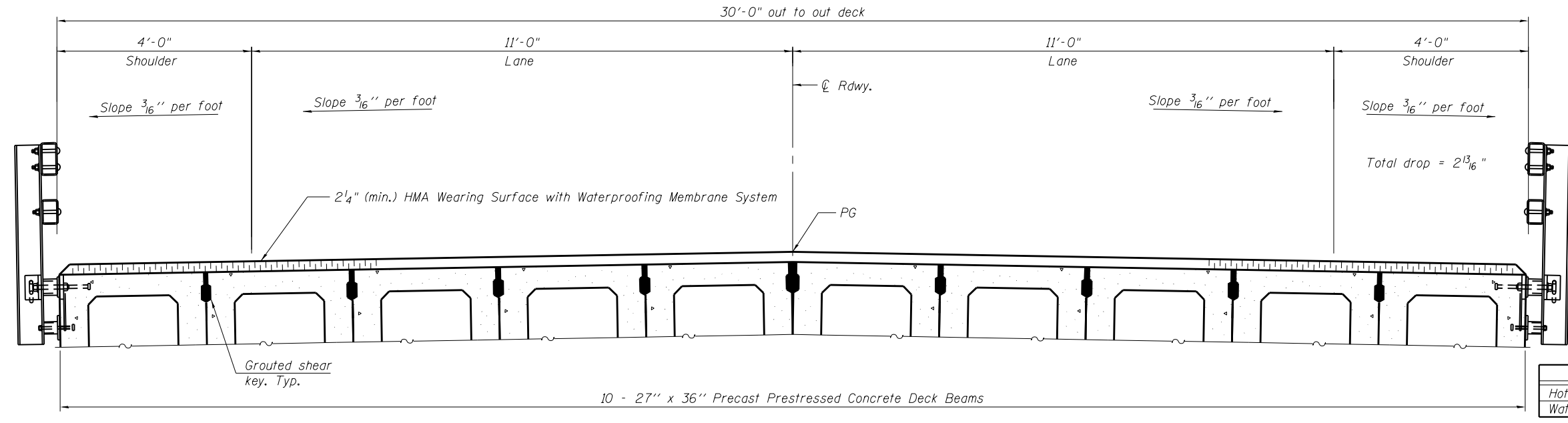


**PLAN**



**SECTION A-A**  
See sheet 10 of 13 for fabric bearing pad details.

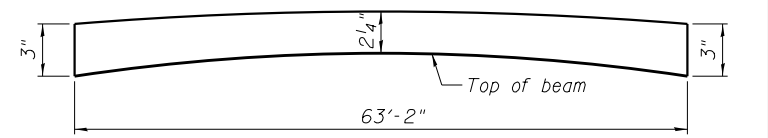
Notes:  
See sheet 6 of 13 for Steel Railing Details.



**CROSS SECTION**  
(Looking South)

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Hot-Mix Asphalt Surface Course, Mix "C", N50	Tons	25
Waterproofing Membrane System	Sq Yd	211



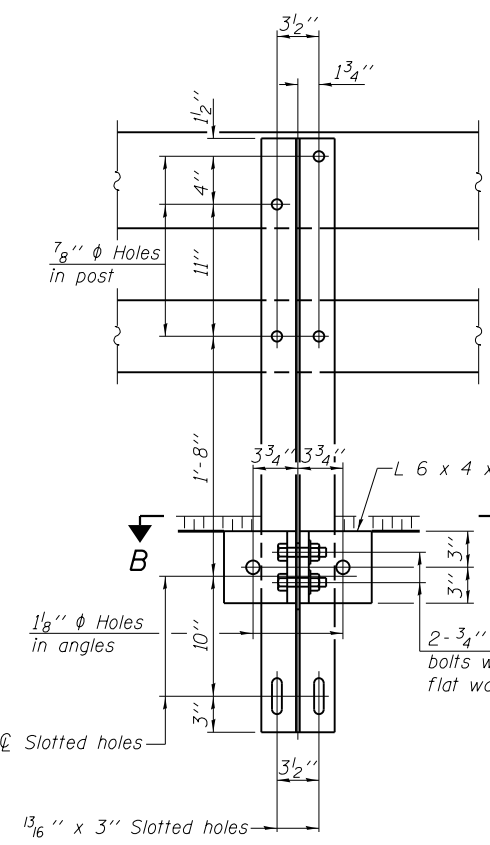
**ANTICIPATED HMA WEARING SURFACE PROFILE**  
(For information only)

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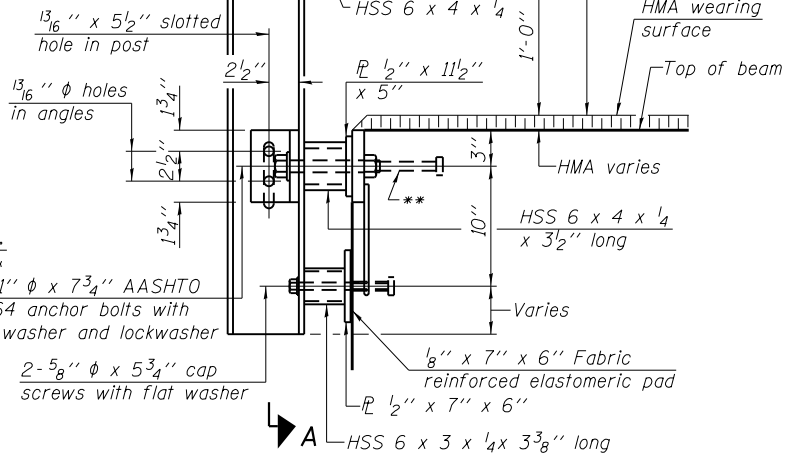
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F.A.S. RTE. 522	SECTION 41BR-1	COUNTY CHAMPAIGN	TOTAL SHEETS 40	SHEET NO. 20
				CONTRACT NO. 70598
ILLINOIS FED. AID PROJECT				

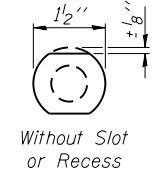
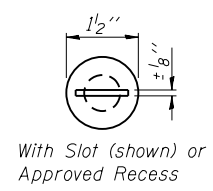
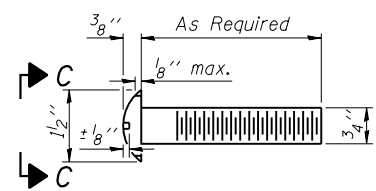
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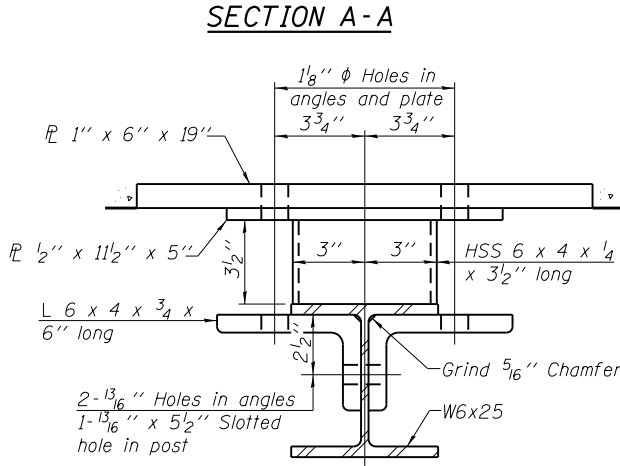
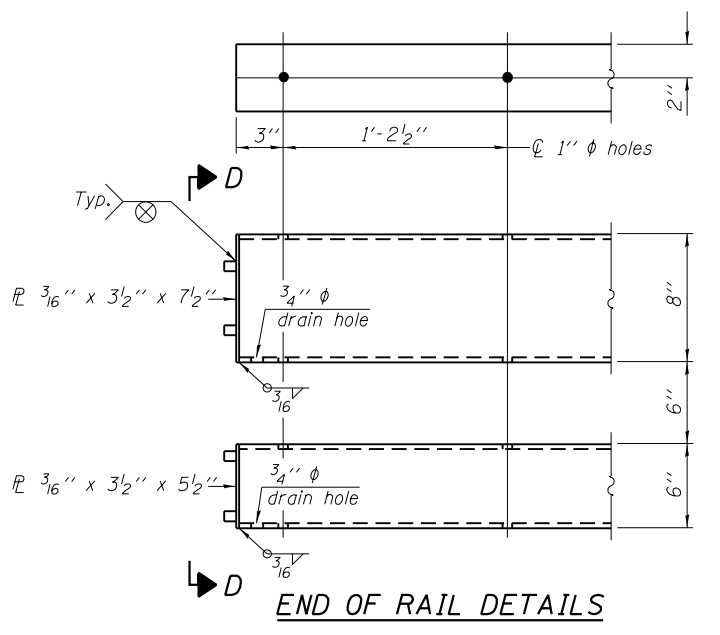
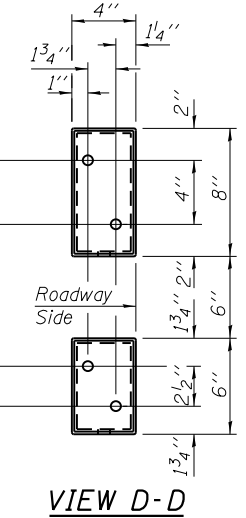
4-3/4" φ x 6" Round Head Bolts with locknut & flat washer.  
7/8" φ holes in hollow structural section may be drilled in the field.



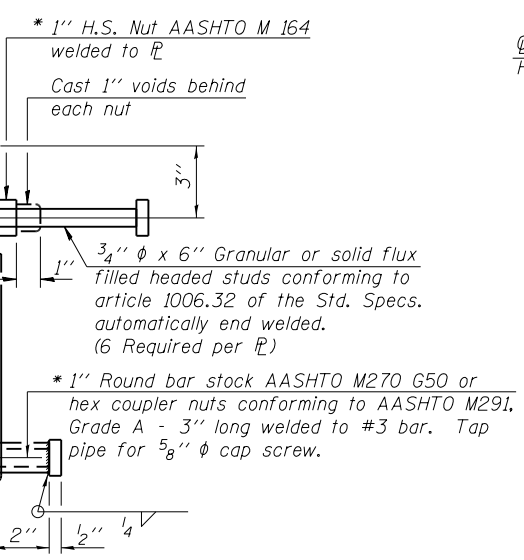
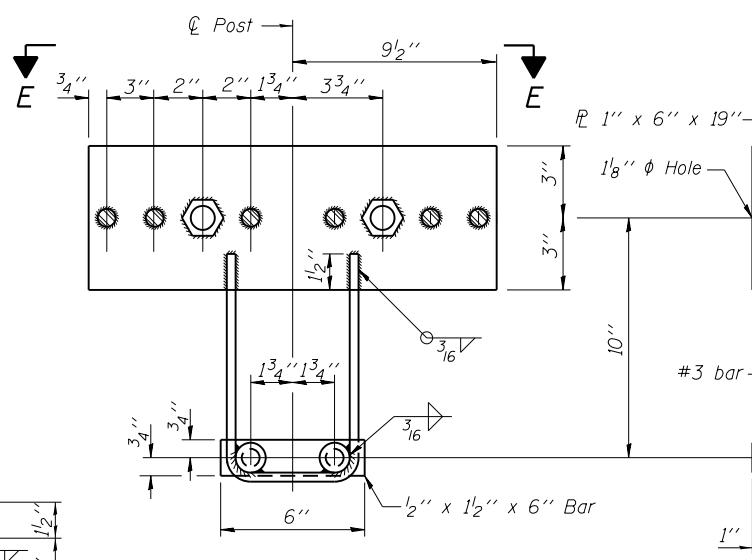
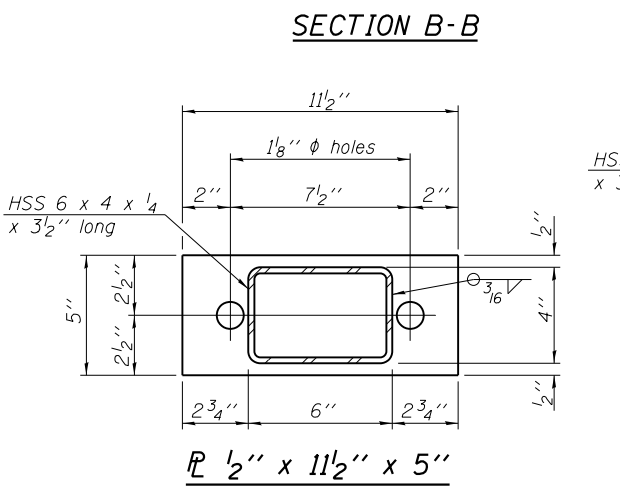
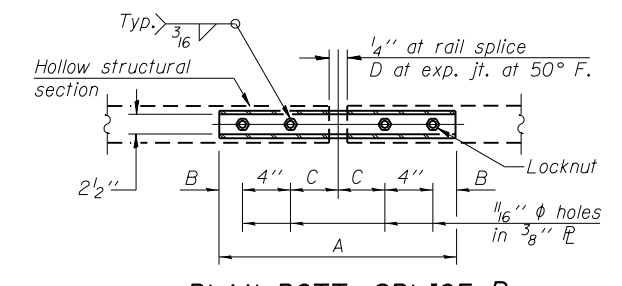
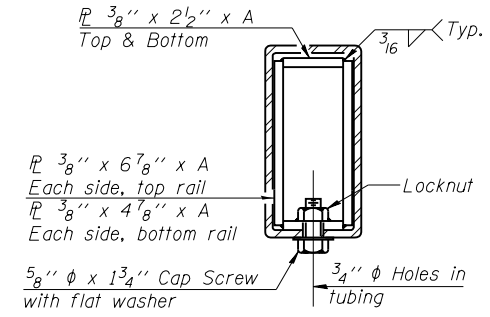
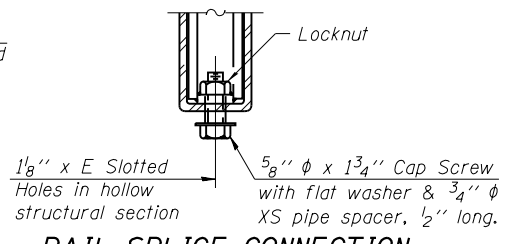
**DETAIL OF 3/4" φ ROUND HEAD BOLT**



4-5/8" reduced base welded studs. Provide 4-5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032.

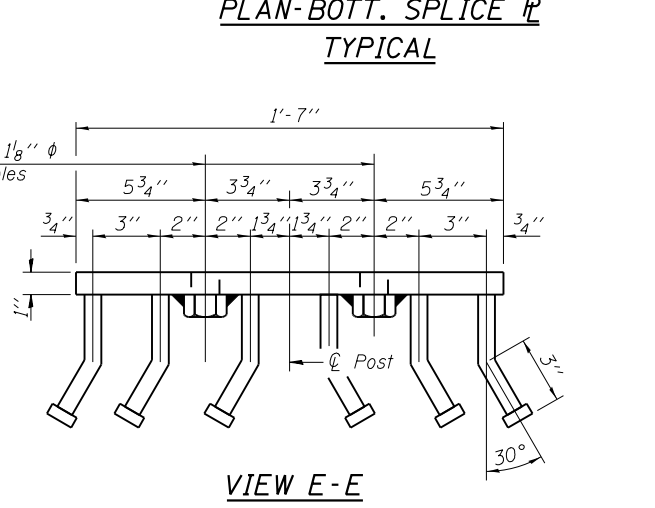


**RAIL SPLICE CONNECTION AT EXPANSION JT.**



T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	

T = Total movement at expansion joint as shown on the design plans.



Notes:  
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.  
All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.  
\*\* The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

**BILL OF MATERIAL**

Item	Unit	Quantity
Steel Railing, Type SM	Foot	187

R-34HMAWS 1-12-15 (6'-3" Maximum Post Spacing) (1/4" minimum to 3/8" maximum HMA thickness)

USER NAME	DESIGNED	REVISION
LAN	LAN	LAN
SPK	SPK	SPK
LAN	LAN	LAN
SPK	SPK	SPK

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

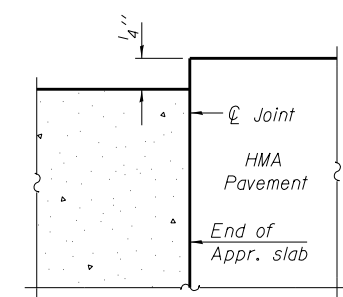
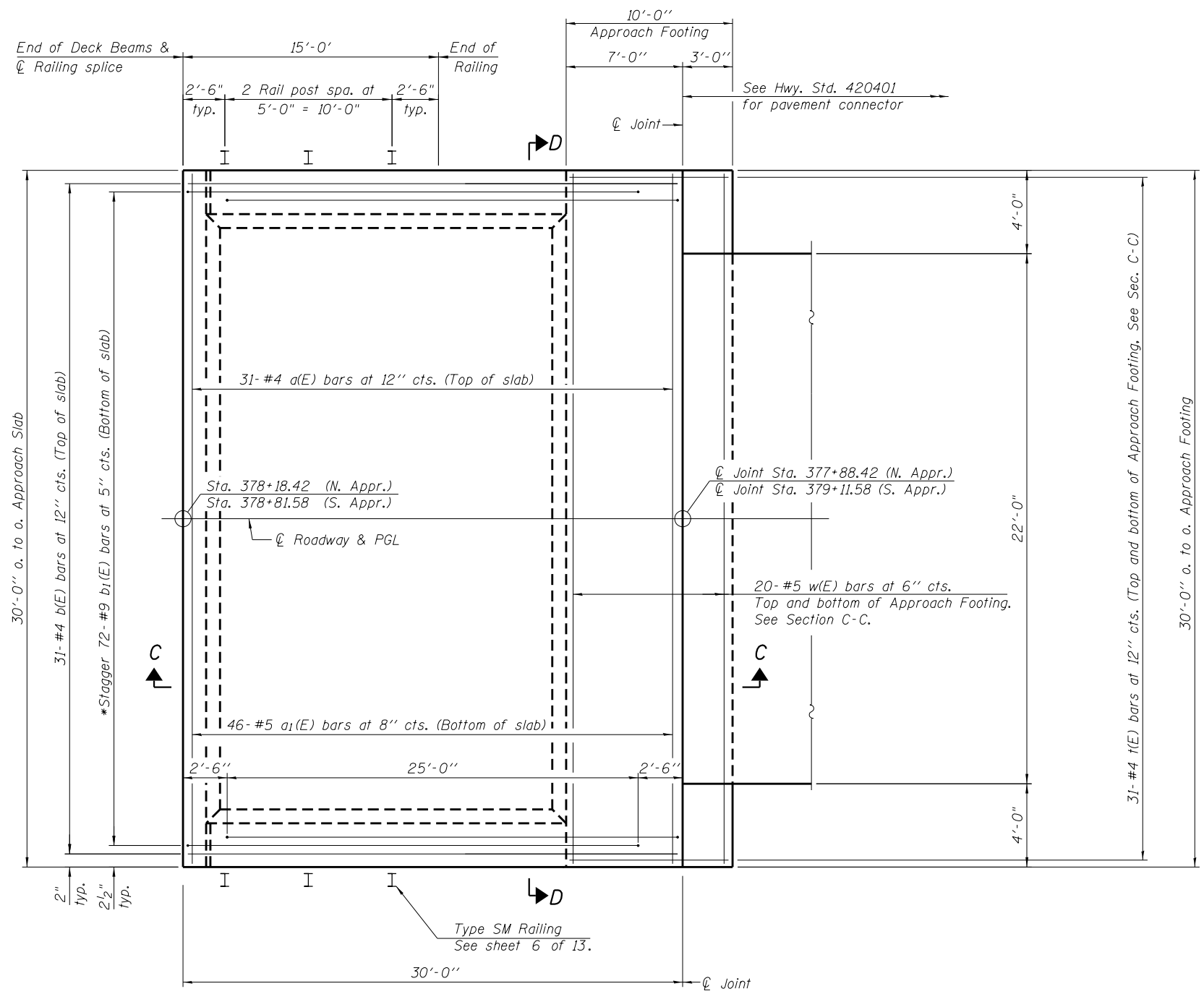
STEEL RAILING, TYPE SM WITH HOT-MIX ASPHALT WEARING SURFACE  
STRUCTURE NO. 010-0290

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	41BR-1	CHAMPAIGN	40	21
				CONTRACT NO. 70598

SHEET NO. 6 OF 13 SHEETS

ILLINOIS FED. AID PROJECT

Notes:  
 See sheet 8 of 13 for Sections C-C & D-D.  
 See sheet 6 of 13 for Railing Connection.  
 a(E) and a<sub>1</sub>(E) bar spacings measured along  $\varnothing$  Rdwy.



**FLEXIBLE PAVEMENT**  
**DETAIL A**

**PLAN**  
 (For North Approach Slab)  
 (For South Approach Slab)  
 \* Tilt #9 b<sub>1</sub>(E) bars as required to maintain clearance.

8/20/2015 3:14:51 PM P:\P-11\2418-00 PTB 15B-024 DS Phase 1 & 11.WD 4\UDGN\CADD\_Sheets\Structural\0100290-70598-007-ApproachSlabDetail1.dgn

(Sheet 1 of 2)



USER NAME =	DESIGNED - SPK	REVISED
	CHECKED - LAN	REVISED
PLOT SCALE =	DRAWN - LAN	REVISED
PLOT DATE = 8/20/2015	CHECKED - SPK	REVISED

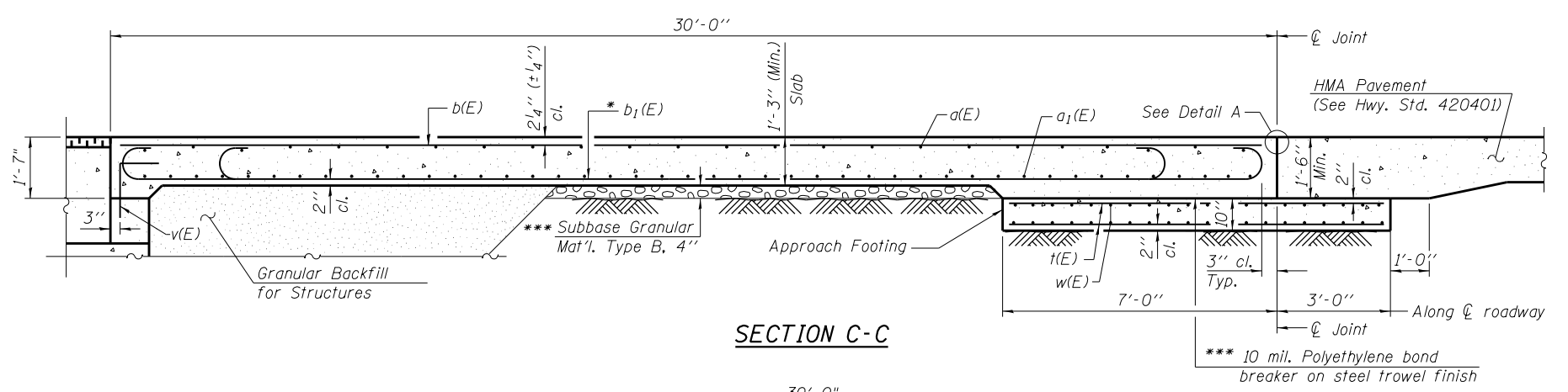
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS**  
**STRUCTURE NO. 010-0290**

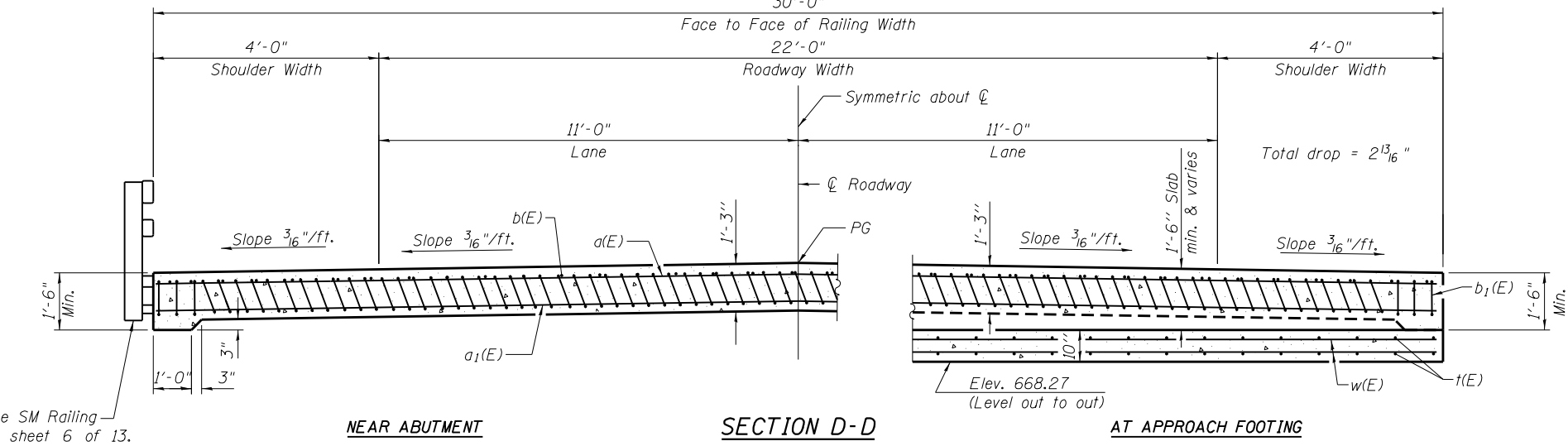
SHEET NO. 7 OF 13 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	41BR-1	CHAMPAIGN	40	22
			CONTRACT NO. 70598	
ILLINOIS FED. AID PROJECT				

9/27/2016 12/5/2016 P:\P-11\2418-00 PTB 15B-024 D5 Phase 1 & 11\10 4\100\N\CADD\_Sheets\Structural\0100290-70598-008-ApproachSlabDetail1.dgn



**SECTION C-C**



**NEAR ABUTMENT**

**SECTION D-D**

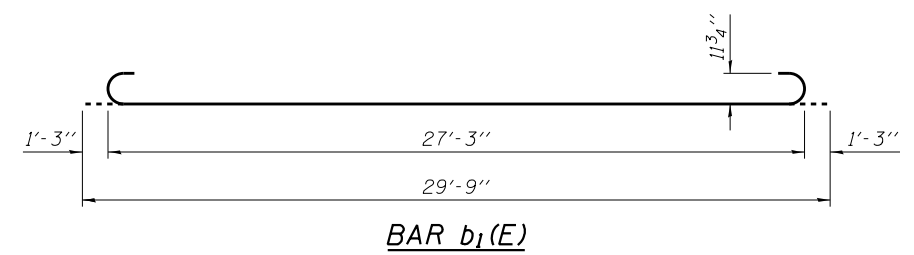
**AT APPROACH FOOTING**

Notes:  
 See sheet 7 of 13 for Detail A.  
 Approach Slab concrete shall be paid for as Concrete Superstructure (Approach Slab).  
 Approach Footing concrete shall be paid for as Concrete Structures.  
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.  
 For v(E) bar details, see sheet 11 of 13.  
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.  
 Cost of excavation for Approach Footing included with Concrete Structures.  
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 13.  
 The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach pavement.

\* Tilt #9 b<sub>1</sub>(E) bars as required to maintain clearance.  
 \*\*\* Cost included with Concrete Superstructure.

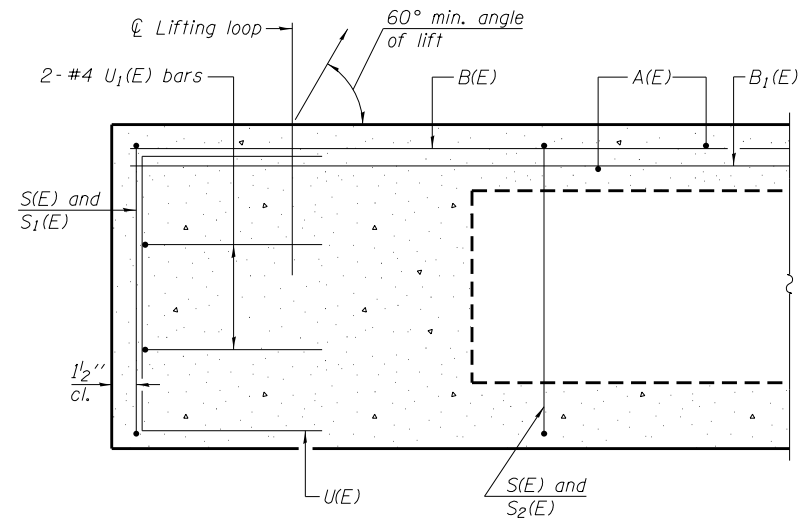
**TWO APPROACHES  
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	62	#4	29'-8"	—
a <sub>1</sub> (E)	92	#5	29'-8"	—
b(E)	62	#4	29'-8"	—
b <sub>1</sub> (E)	144	#9	29'-9"	⌋
t(E)	124	#4	9'-8"	—
w(E)	80	#5	29'-8"	—
Concrete Structures			Cu. Yd.	18.5
Bridge Deck Grooving			Sq. Yd.	200
Protective Coat			Sq. Yd.	200
Concrete Superstructure (Approach Slab)			Cu. Yd.	91.0
Reinforcement Bars, Epoxy Coated			Pound	23,150

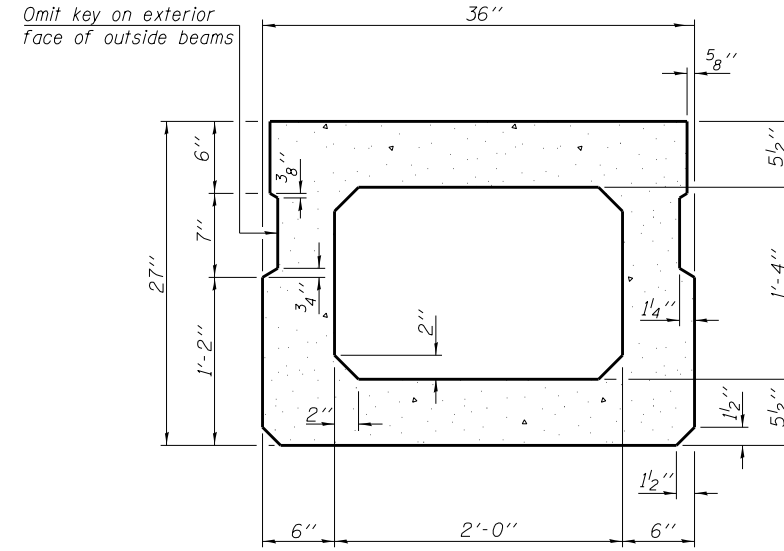


**BAR b<sub>1</sub>(E)**

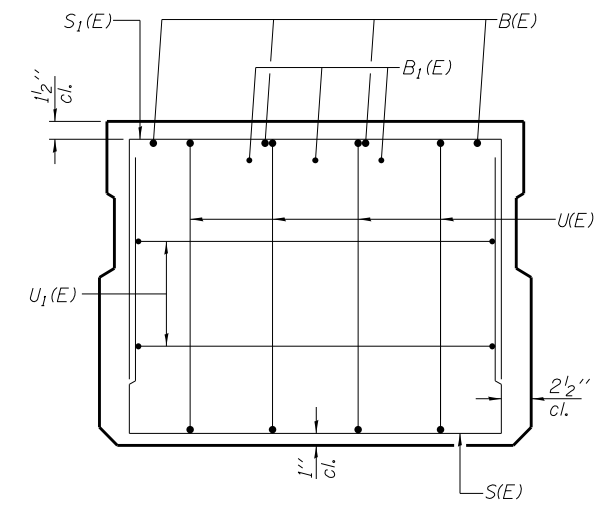
(Sheet 2 of 2)



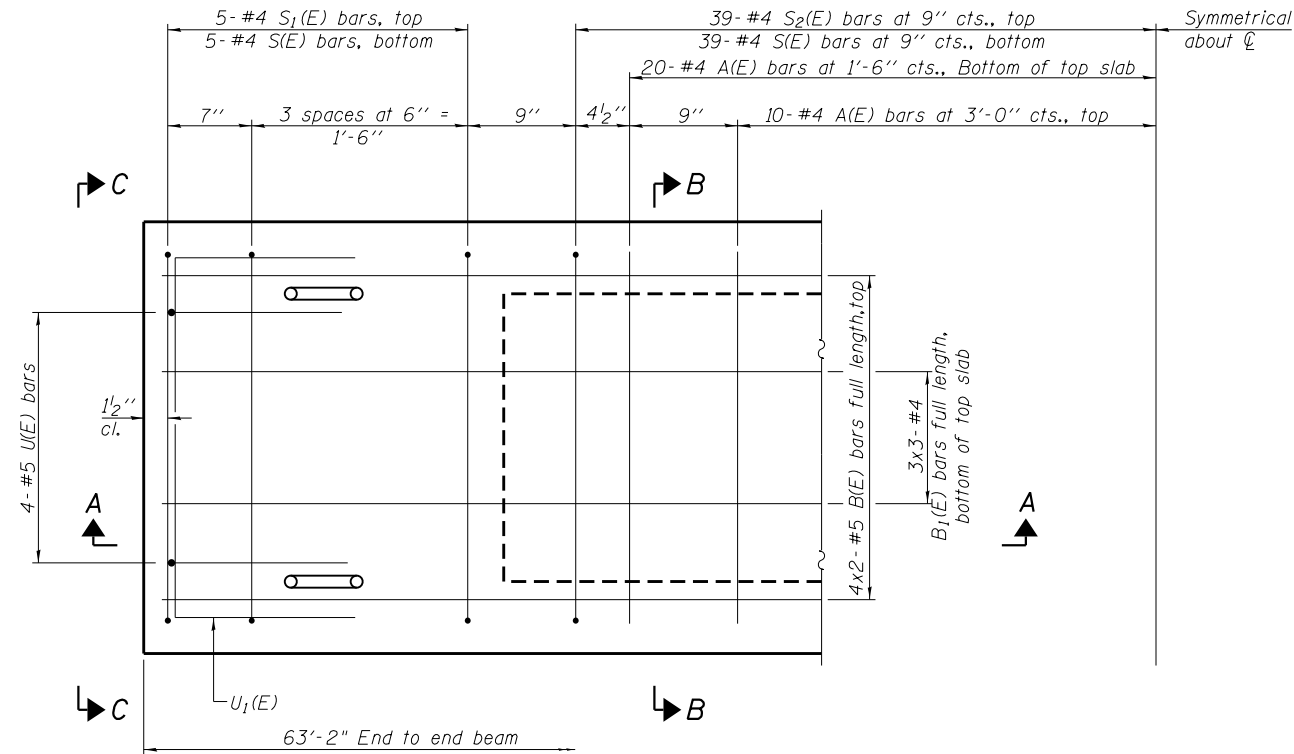
**SECTION A-A**



**SECTION B-B**  
(Showing dimensions)

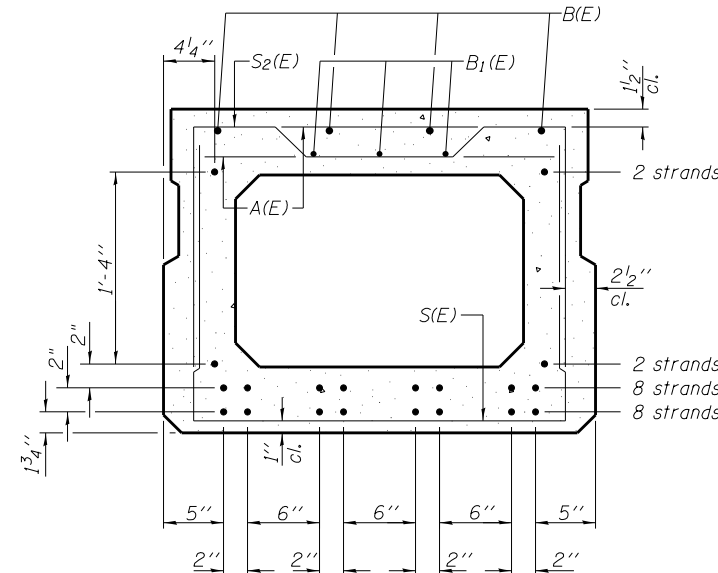


**VIEW C-C**



**PLAN VIEW**

Note: Spacing of S(E) and S<sub>2</sub>(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



**SECTION B-B**

(Showing reinforcement and permissible strand locations)  
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

**BAR LIST**  
**ONE BEAM ONLY**  
(For information only)

Bar	No.	Size	Length	Shape
A(E)	60	#4	2'-7"	—
B(E)	8	#5	32'-8"	—
B <sub>1</sub> (E)	9	#4	22'-4"	—
S(E)	88	#4	6'-5"	U
S <sub>1</sub> (E)	10	#4	5'-11"	U
S <sub>2</sub> (E)	78	#4	6'-2"	U
U(E)	8	#5	4'-6"	U
U <sub>1</sub> (E)	4	#4	5'-0"	U

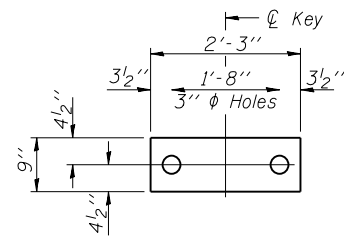
Note: See sheet 10 of 13 for additional details and Bill of Material.

**MINIMUM BAR LAP**

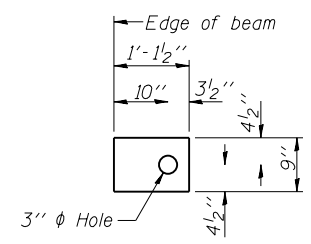
#4 bar = 2'-0"  
#5 bar = 2'-6"

8/20/2015 3:44:59 PM P:\P-11\2418-00 PTB 15B-024 DS Phase 1 & 11\10 4\10\10\CADD\_Sheets\Structural\01002\0-70598-009-DeckBeamDetail.dgn





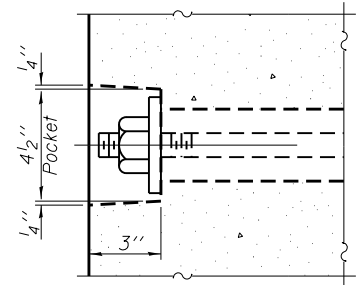
**FABRIC BEARING PAD**  
(Interior)



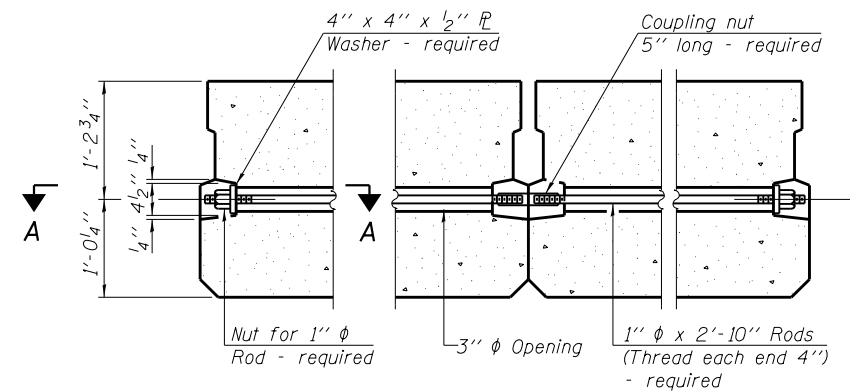
**FABRIC BEARING PAD**  
(Exterior)

**FIXED**

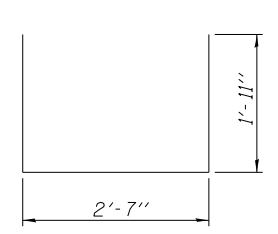
Notes:  
All bearing pads shall be 1" thick.  
Omit holes when using expansion bearings.  
Expansion bearing pad shall be bonded to the substructure.



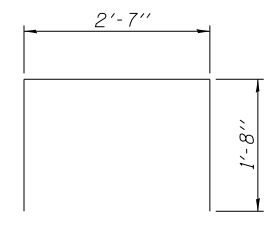
**SECTION A-A**



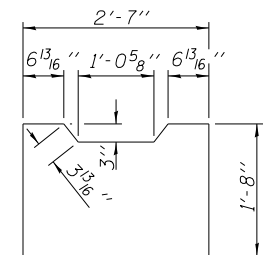
**TYPICAL TRANSVERSE TIE ASSEMBLY**



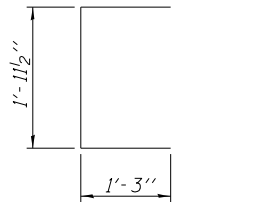
**BAR S(E)**



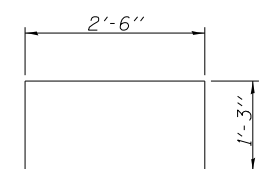
**BAR S1(E)**



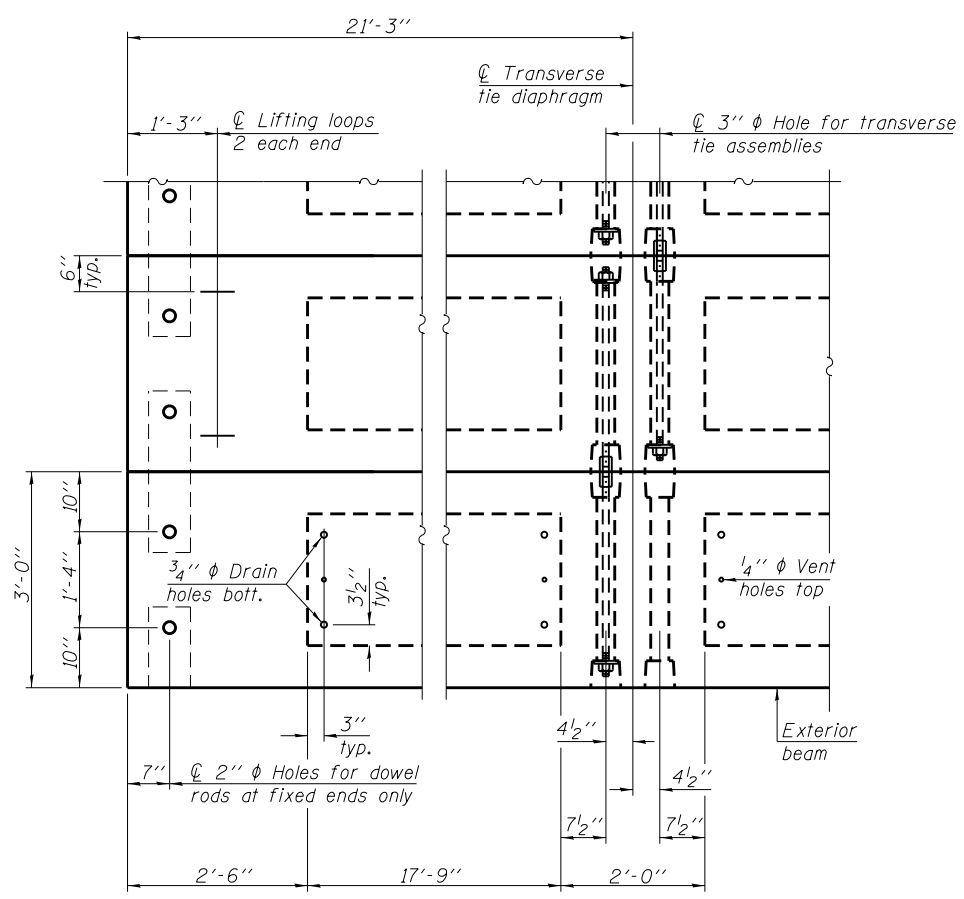
**BAR S2(E)**



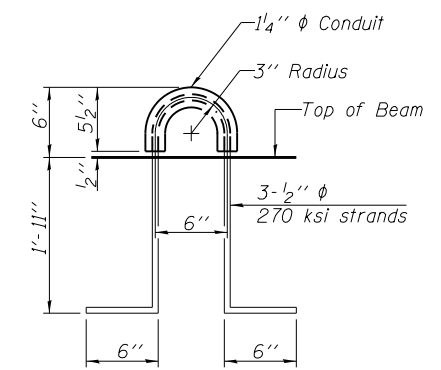
**BAR U(E)**



**BAR U1(E)**



**PLAN VIEW**



**LIFTING LOOP DETAIL**

**NOTES**

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.  
The 1"  $\phi$  rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.  
Reinforcement bars shall conform to ASTM A 706, Grade 60.  
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.  
A minimum 2 1/2"  $\phi$  lifting pin shall be used to engage the lifting loops during handling.  
Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.  
Compressive strength of prestressed concrete,  $f'c$ , shall be 6000 psi.  
Compressive strength of prestressed concrete at release,  $f'ci$ , shall be 5000 psi.

**BILL OF MATERIAL**

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	1,895
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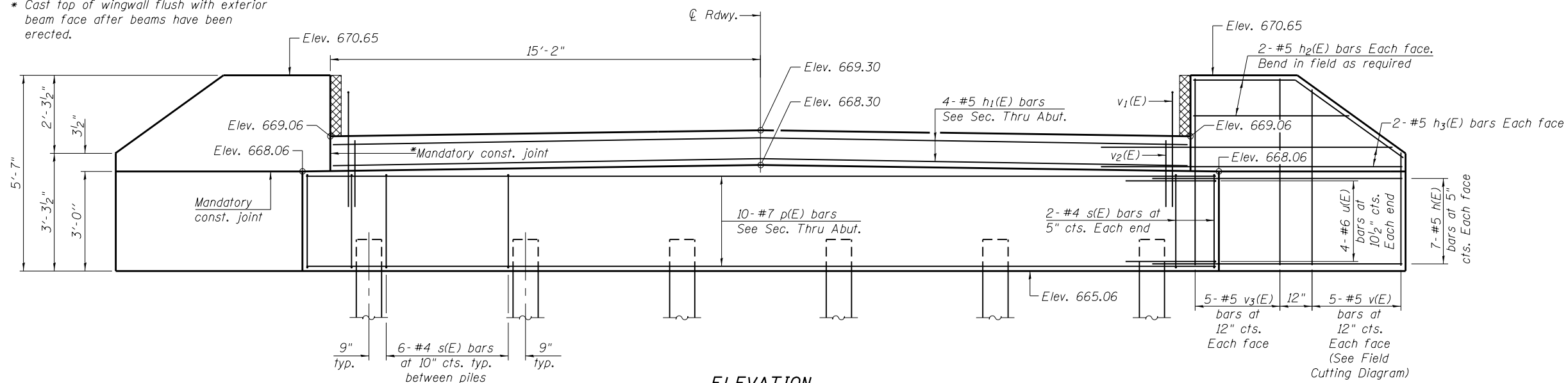
Note: Connect beams in pairs with the transverse tie configuration shown.

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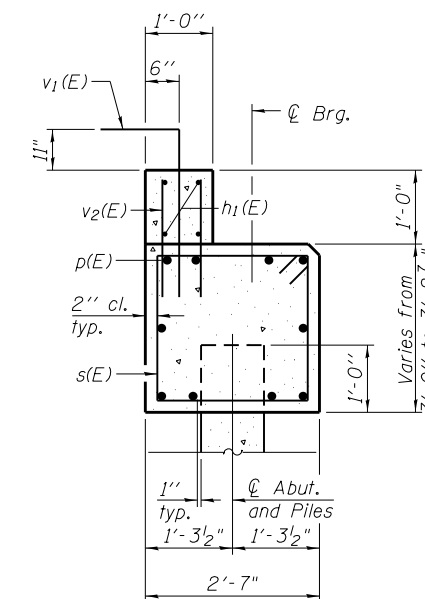
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	CHECKED - LAN	REVISED
PLOT SCALE =	DRAWN - KJS	REVISED
PLOT DATE = 8/20/2015	CHECKED - SPK	REVISED

F.A.S. RTE. 522	SECTION 41BR-1	COUNTY CHAMPAIGN	TOTAL SHEETS 40	SHEET NO. 25
			CONTRACT NO. 70598	
ILLINOIS FED. AID PROJECT				

\* Cast top of wingwall flush with exterior beam face after beams have been erected.

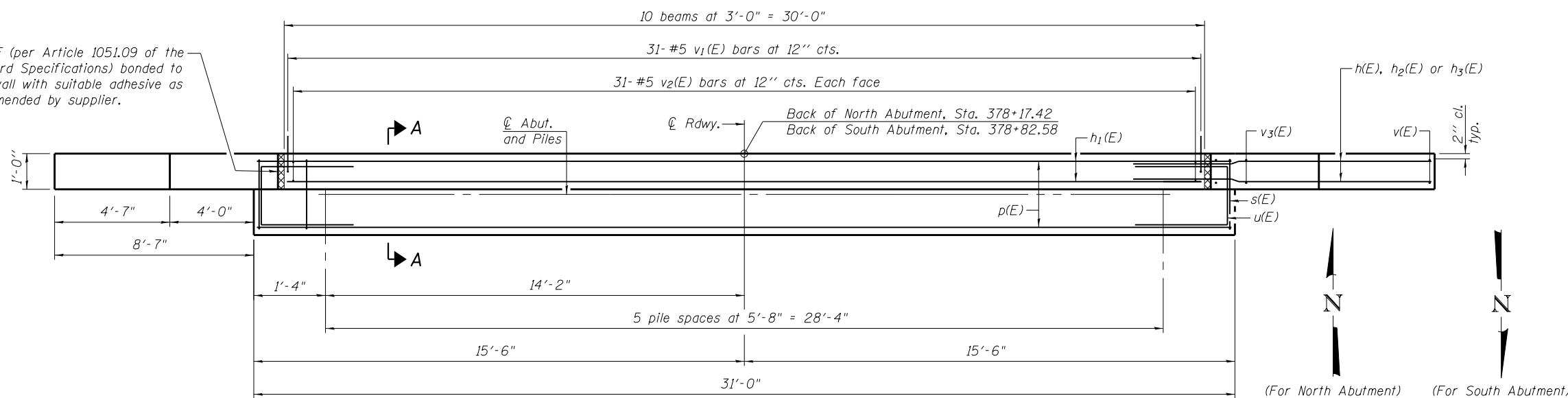


**ELEVATION**



**SECTION A-A**

2" PJF (per Article 1051.09 of the Standard Specifications) bonded to wing wall with suitable adhesive as recommended by supplier.



**PLAN**

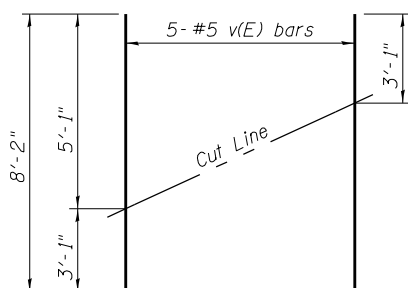
**TWO ABUTMENTS  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	56	#5	12'-3"	—
h1(E)	8	#5	30'-0"	—
h2(E)	16	#5	13'-1"	—
h3(E)	16	#5	12'-2"	—
p(E)	20	#7	30'-8"	—
s(E)	68	#4	10'-3"	□
u(E)	16	#6	11'-0"	⊏
v(E)	20	#5	8'-2"	—
v1(E)	62	#5	5'-6"	┌
v2(E)	124	#5	2'-9"	—
v3(E)	40	#5	5'-3"	—
Structure Excavation			Cu. Yd.	131
Concrete Structures			Cu. Yd.	24.6
Reinforcement Bars, Epoxy Coated			Pound	4,470
Furnishing Metal Shell Piles, 12" x 0.250"			Foot	390
Driving Piles			Foot	390
Test Pile, Metal Shell			Each	2

Notes:  
For details of piles, see sheet 12 of 13.  
Cast backwall after beams have been erected.

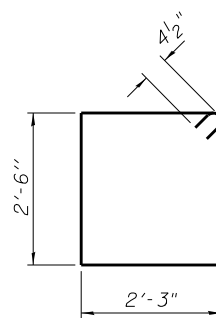
**PILE DATA  
(FOR TWO ABUTMENTS)**

Type: Metal Shell - 12 in. dia. x 0.25 in. walls  
Nominal Required Bearing: 353 kips  
Factored Resistance Available: 194 kips  
Est. Length: 39 feet  
No. Production Piles: 10  
No. Test Piles: 2

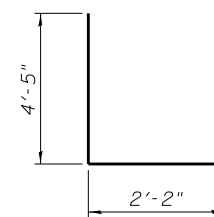


**FIELD CUTTING DIAGRAM**

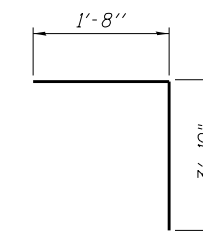
Order v(E) bars full length. Cut as shown and use remainder of bars in opposite face.



**BAR s(E)**

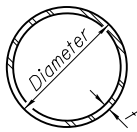


**BAR u(E)**



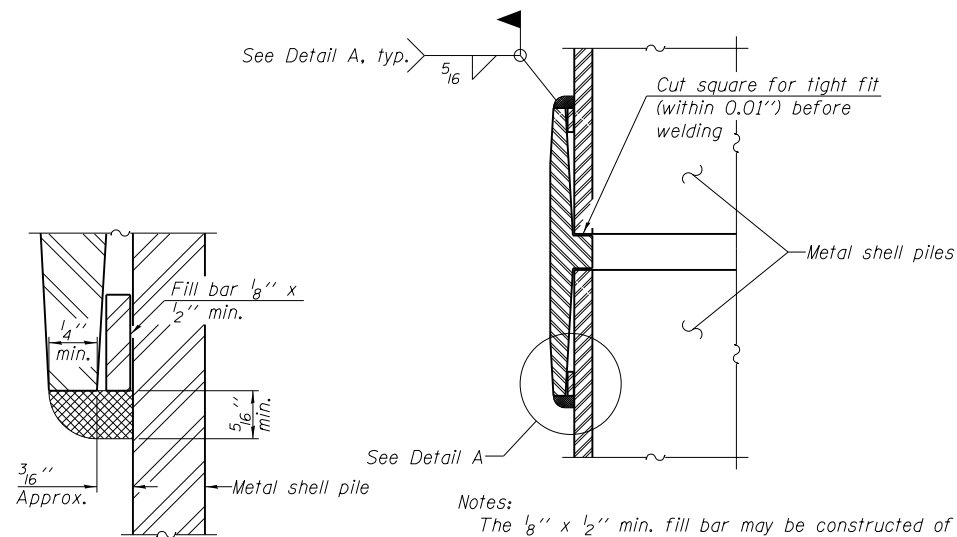
**BAR v1(E)**

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**METAL SHELL PILE TABLE**

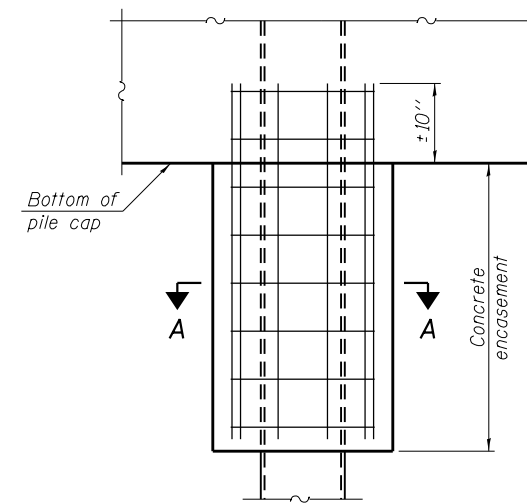
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. <sup>3</sup> /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361



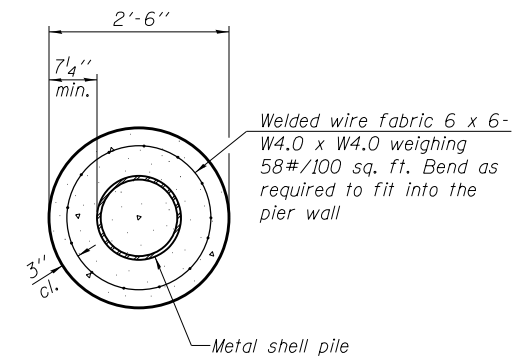
**DETAIL A**

**Notes:**  
 The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.  
 Pile segments shall be driven to solid contact with splicer before welding.

**WELDED COMMERCIAL SPLICE**



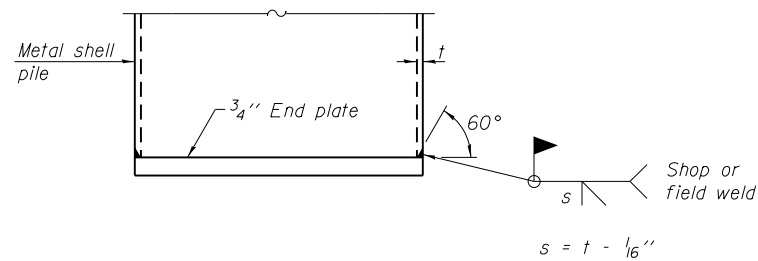
**ELEVATION**



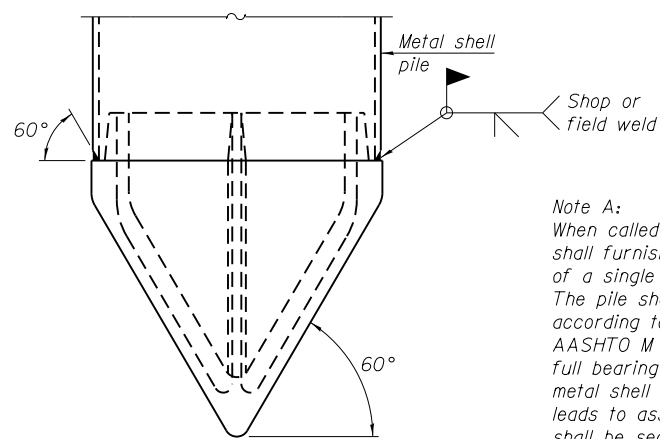
**SECTION A-A**

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

**CONCRETE ENCASEMENT AT PIERS**



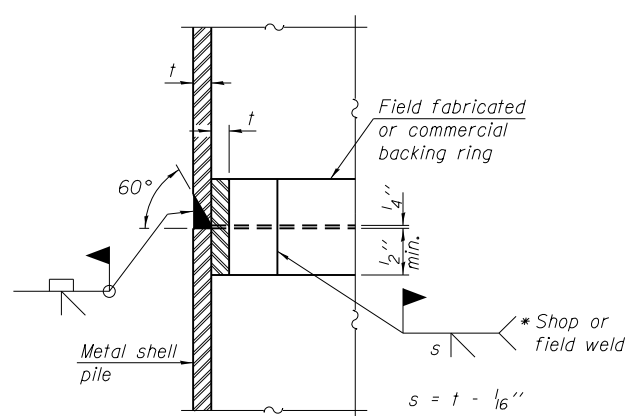
**END PLATE ATTACHMENT**



**METAL SHELL PILE SHOE ATTACHMENT**

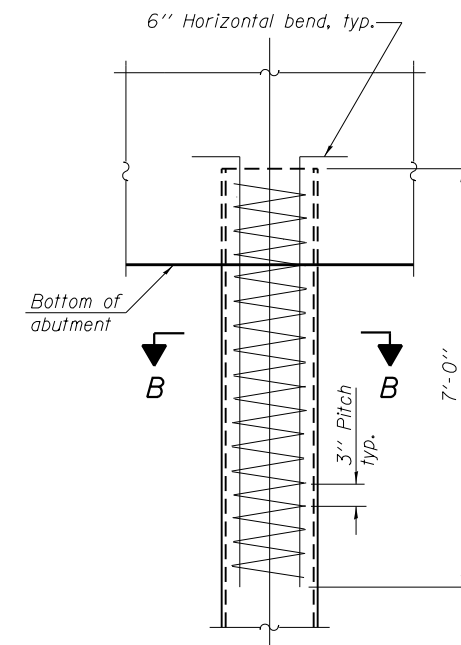
(See Note A)

**Note A:**  
 When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.



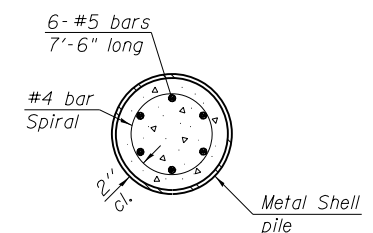
**COMPLETE PENETRATION WELD SPLICE**

\* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



**ELEVATION**

**METAL SHELL REINFORCEMENT AT ABUTMENTS**



**SECTION B-B**

**Note:**  
 The metal shell piles shall be according to ASTM A 252 Grade 3.

8/20/2015 3:55:09 PM P:\P-11\2418-00\_PTB\_15B-024\_05\_Phase 1 & 11\10-4\00\CADD\_Sheets\Structural\0100290-70598-012-MetalShell\F116.dgn

F-MS 1-27-12

**INFRASTRUCTURE ENGINEERING**  
 INCORPORATED  
 456 Fulton Street | Suite 104 | Peoria, IL 61602  
 P 309.637.0000 | F 309.637.9710 | www.infrastructure-eng.com

USER NAME =	DESIGNED - LAN	REVISED
	CHECKED - SPK	REVISED
PLOT SCALE =	DRAWN - LAN	REVISED
PLOT DATE = 8/20/2015	CHECKED - SPK	REVISED

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**METAL SHELL PILE DETAILS  
 STRUCTURE NO. 010-0290**

SHEET NO. 12 OF 13 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	41BR-1	CHAMPAIGN	40	27
			CONTRACT NO. 70598	
ILLINOIS FED. AID PROJECT				



# SOIL BORING LOG

ROUTE FAS 522 (CH 12) DESCRIPTION East Branch Embarras River 2.0 Miles North of Longview LOGGED BY Baker  
 SECTION 41BR-1 LOCATION NW, SEC. 22, TWP. 17N, RNG. 10E, 3<sup>rd</sup> PM GPS:  
 COUNTY Champaign DRILLING METHOD Hollow Stem Auger HAMMER TYPE

STRUCT. NO. Station	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. Stream Bed Elev.	D E P T H	B L O W S	U C S	M O I S T	Groundwater Elev.: First Encounter Upon Completion After Hrs.	(ft)	(/6")	(tsf)	B	S	Q	T	
																		(ft)
010-0107 378+50					657.6													
BORING NO. 1 N. Abut Station 378+22 Offset 6.0 ft LL Ground Surface Elev. 669.8 ft																		
DARK BROWN MIXED CLAY LOAM (BACKFILL) 669.8																		
GRAY CLAY LOAM TILL (continued)																		
21 4.9 12																		
626.8																		
BROWN SANDY CLAY LOAM TILL																		
-25 15 2.5 13																		
-45 76 109.0 9																		
End of Boring 624.3																		
15 1.0 13																		
660.3																		
GRAY BROWN MOTTLED CLAY LOAM																		
-10 7 0.6 25																		
658.3																		
SAND LENS																		
657.8																		
GRAY SANDY CLAY LOAM TILL																		
15 1.2 14																		
654.8																		
GRAY CLAY LOAM TILL																		
-15 10 1.4 15																		
SILT LENS																		
-35 14 2.9 16																		
21 4.7 12																		
-20 28 5.0 12																		

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.  
 The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
 BBS, from 137 (Rev. 8-99)



# SOIL BORING LOG

ROUTE FAS 522 (CH 12) DESCRIPTION East Branch Embarras River 2.0 Miles North of Longview LOGGED BY Baker  
 SECTION 41BR-1 LOCATION NW, SEC. 22, TWP. 17N, RNG. 10E, 3<sup>rd</sup> PM GPS:  
 COUNTY Champaign DRILLING METHOD Hollow Stem Auger HAMMER TYPE

STRUCT. NO. Station	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. Stream Bed Elev.	D E P T H	B L O W S	U C S	M O I S T	Groundwater Elev.: First Encounter Upon Completion After Hrs.	(ft)	(/6")	(tsf)	B	S	Q	T	
																		(ft)
010-0107 378+50					657.6													
BORING NO. 1 N. Abut Station 378+22 Offset 6.0 ft LL Ground Surface Elev. 669.8 ft																		
GRAY CLAY LOAM TILL (continued)																		
21 4.9 12																		
626.8																		
BROWN SANDY CLAY LOAM TILL																		
-25 15 2.5 13																		
-45 76 109.0 9																		
End of Boring 624.3																		
15 1.0 13																		
660.3																		
GRAY BROWN MOTTLED CLAY LOAM																		
-10 7 0.6 25																		
658.3																		
SAND LENS																		
657.8																		
GRAY SANDY CLAY LOAM TILL																		
15 1.2 14																		
654.8																		
GRAY CLAY LOAM TILL																		
-15 10 1.4 15																		
SILT LENS																		
-35 14 2.9 16																		
21 4.7 12																		
-20 28 5.0 12																		

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.  
 The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
 BBS, from 137 (Rev. 8-99)



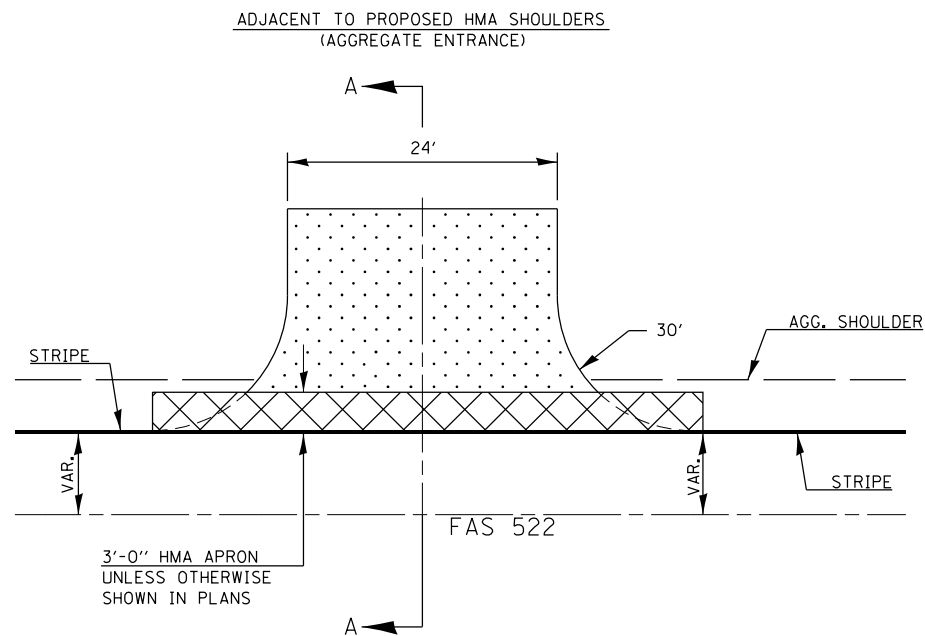
# SOIL BORING LOG

ROUTE FAS 522 (CH 12) DESCRIPTION East Branch Embarras River 2.0 Miles North of Longview LOGGED BY Baker  
 SECTION 41BR-1 LOCATION NW, SEC. 22, TWP. 17N, RNG. 10E, 3<sup>rd</sup> PM GPS:  
 COUNTY Champaign DRILLING METHOD Hollow Stem Auger HAMMER TYPE

STRUCT. NO. Station	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. Stream Bed Elev.	D E P T H	B L O W S	U C S	M O I S T	Groundwater Elev.: First Encounter Upon Completion After Hrs.	(ft)	(/6")	(tsf)	B	S	Q	T	
																		(ft)
010-0107 378+50					657.6													
BORING NO. 2 S. Abut Station 378+78 Offset 5.0 ft LL Ground Surface Elev. 669.8 ft																		
BLACK & BROWN MIXED CLAY LOAM BACKFILL 669.8																		
GRAY CLAY LOAM TILL (continued)																		
17 3.1 12																		
626.8																		
BROWN SANDY CLAY LOAM TILL																		
-25 13 2.5 12																		
-45 9 1.2 26																		
End of Boring 624.3																		
12 1.6 13																		
659.8																		
BROWN GRAY MOTTLED CLAY LOAM																		
-10 4 0.6 29																		
SILT LENS																		
658.3																		
GRAY CLAY LOAM TILL																		
8 1.2 15																		
-15 13 2.7 13																		
End of Boring 634.3																		
-35 16 2.7 13																		
22 5.0 11																		
-20 22 6.2 11																		

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.  
 The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
 BBS, from 137 (Rev. 8-99)

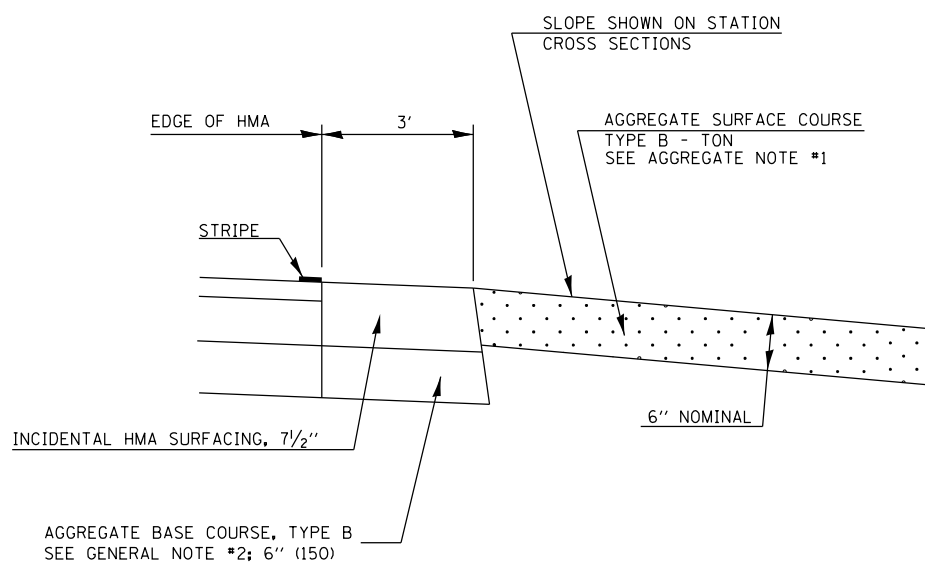
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**TYPICAL APPLICATION**

**GENERAL NOTES**

1. ANY NECESSARY WORK BEHIND THE HMA SHOULDER OR THE INCIDENTAL HMA SURFACING SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
2. EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE.
3. AGGREGATE BASE COURSE, TYPE B, 6" (150 mm) MIN. SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT SUFFICIENT BASE MATERIAL FOR THE PROPOSED ENTRANCES. THIS MATERIAL SHALL GENERALLY BE USED TO WIDEN ANY EXISTING RETURN OR TO CONSTRUCT NEW ENTRANCES WHERE NONE NOW EXISTS.
4. THE AGGREGATE BASE COURSE SHALL BE CONSTRUCTED 12" (300 mm) WIDER THAN THE SURFACE DIMENSIONS AS SHOWN.
5. SEE PLAN SHEETS AND CROSS SECTIONS FOR FIELD ENTRANCE LENGTHS.



**SECTION A-A**

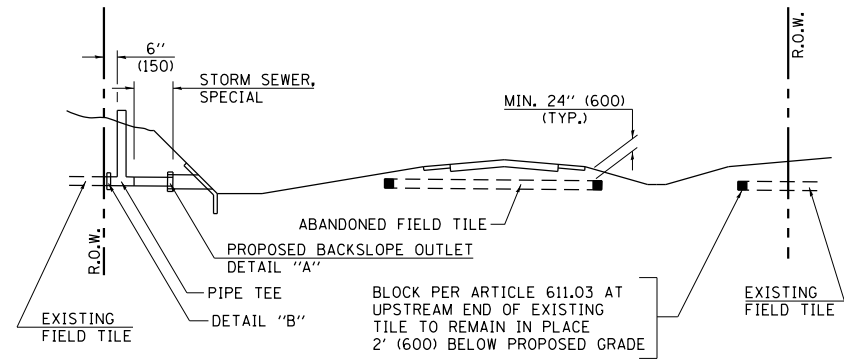
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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DRAWN - AF	REVISIONS -	
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PLOT DATE = 8/19/2015	DATE - 8/19/2015	REVISED -

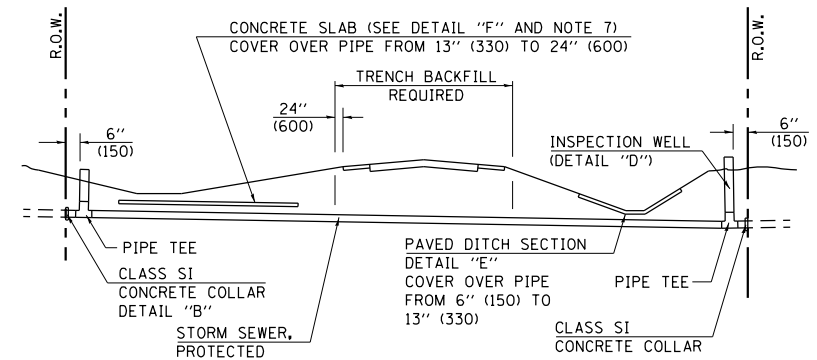
<b>FIELD ENTRANCES (NONCOMMERCIAL RURAL)</b>	
SCALE: N.T.S.	SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	41BR-1	CHAMPAIGN	40	29
CONTRACT NO. 70598				
ILLINOIS FED. AID PROJECT				



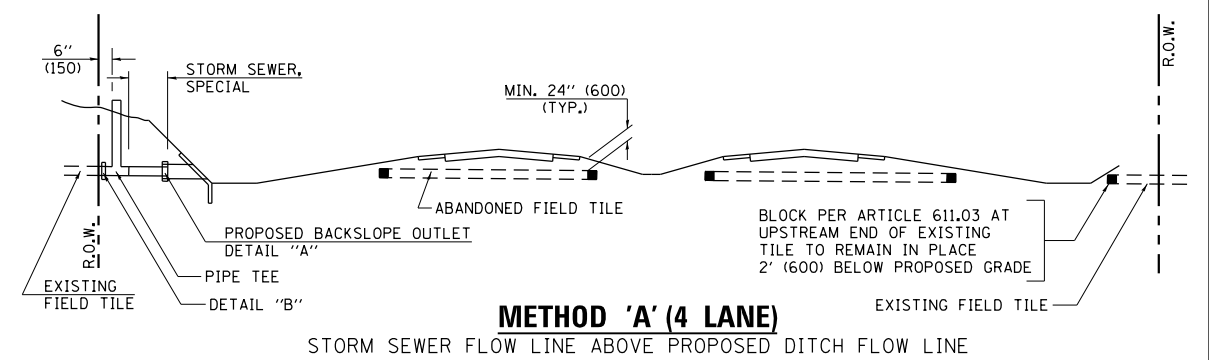
**METHOD 'A' (2 LANE)**

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



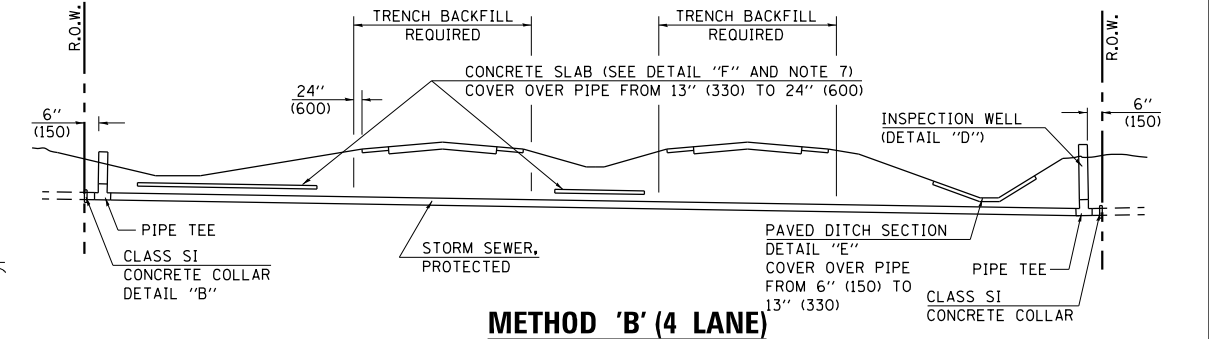
**METHOD 'B' (2 LANE)**

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENT AND PAVED DITCH



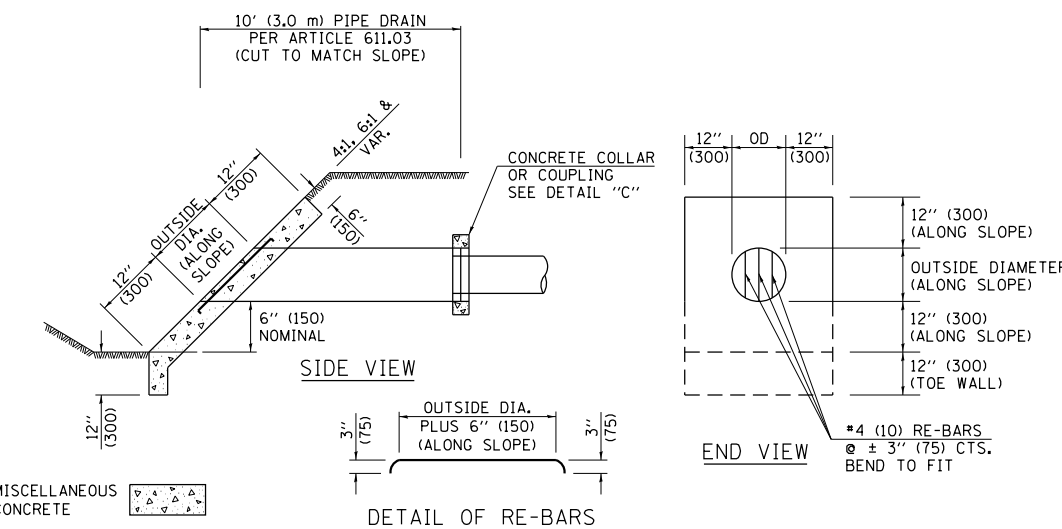
**METHOD 'A' (4 LANE)**

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



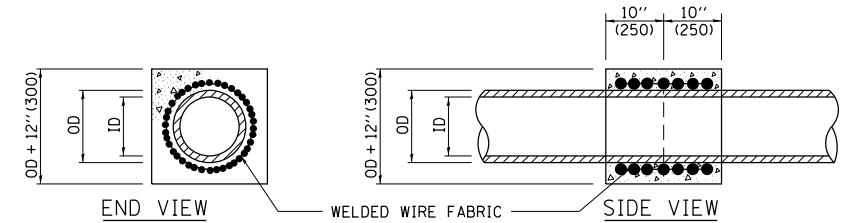
**METHOD 'B' (4 LANE)**

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENTS AND PAVED DITCHES



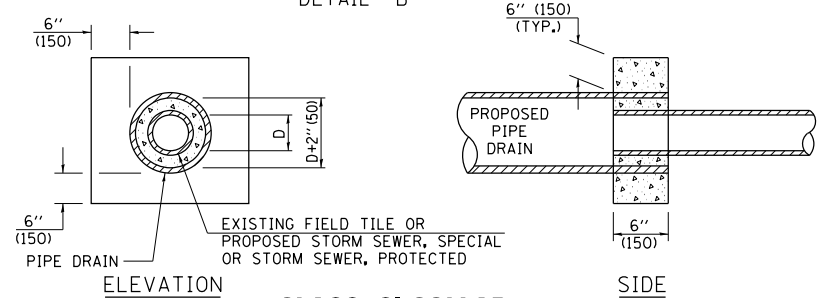
**HEADWALL FOR BACKSLOPE OUTLET**

DETAIL "A"



**CONCRETE COLLAR**

DETAIL "B"

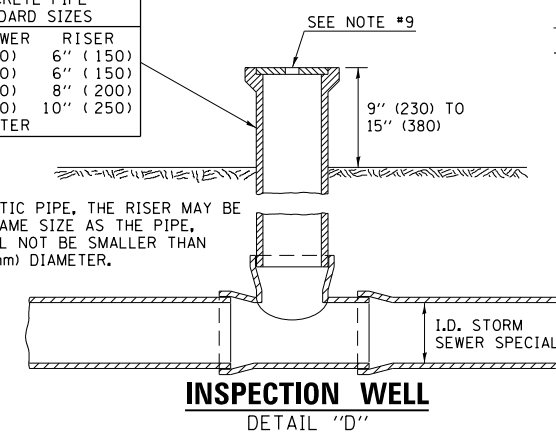


**CLASS SI COLLAR**

DETAIL "C"

CONCRETE PIPE STANDARD SIZES	
STORM SEWER	RISER
6" (150)	6" (150)
8" (200)	6" (150)
10" (250)	8" (200)
12" (300)	10" (250)
OR GREATER	

FOR PLASTIC PIPE, THE RISER MAY BE OF THE SAME SIZE AS THE PIPE, BUT SHALL NOT BE SMALLER THAN 4" (100 mm) DIAMETER.

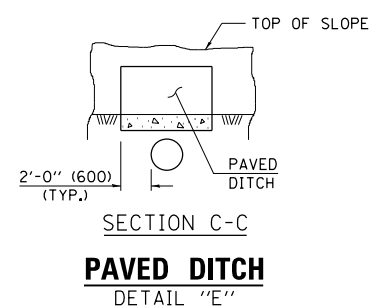


**INSPECTION WELL**

DETAIL "D"

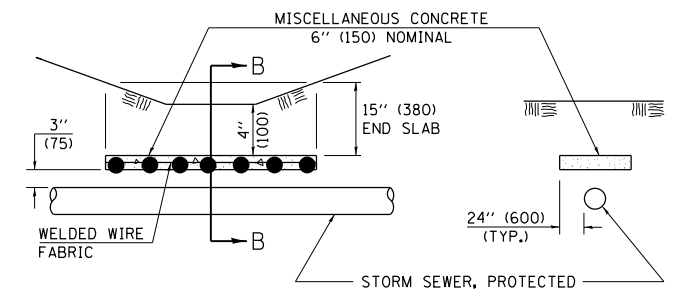
**GENERAL NOTES**

- EXISTING FIELD TILE ENCOUNTERED BY EXPLORATION TRENCH SHALL BE INSPECTED BY THE ENGINEER FOR UNOBSTRUCTED FLOW WITHIN THE LIMITS OF THE RIGHT-OF-WAY.
- ONLY FIELD TILE THAT DOES NOT HAVE SATISFACTORY FLOW AND OR HAS VISIBLE SIGNS OF DETERIORATION (SINK HOLES, ETC.) SHALL BE REPLACED WITHIN THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH METHOD "B".
- INSPECTION WELLS SHALL BE CONSTRUCTED APPROXIMATELY 6" (150 mm) INSIDE OF BOTH RIGHT-OF-WAY LINES AT ALL FIELD TILE LOCATIONS.
- EXISTING FIELD TILE ABANDONED UNDER EXISTING PAVEMENTS OR PAVED SHOULDERS SHALL BE FILLED WITH FLOWABLE GROUT AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.
- NON-CIRCULAR FIELD TILE SHALL BE REPLACED WITH STORM SEWER, SPECIAL OF AT LEAST THE SAME CROSS SECTIONAL AREA. ALL EXISTING FIELD TILE SHALL BE REPLACED WITH STORM SEWER OF THE TYPE REQUIRED FOR THE MINIMUM DEPTH OF COVER.
- THE 6" (150 mm) CONCRETE SLAB OR DITCH LINING SHALL BE POURED THE LENGTH OF THE TRENCH AT ALL DITCH FLOW LINE LOCATIONS WITHIN THE RIGHT-OF-WAY WITH LESS THAN 2' (600 mm) OF EARTH COVER. MISCELLANEOUS CONCRETE SHALL BE USED ACCORDING TO SECTION 611.
- ALL MISCELLANEOUS SLABS, APRONS AND DITCH LININGS SHALL BE REINFORCED WITH WELDED WIRE FABRIC AS SHOWN FOR PAVED DITCH IN STANDARD 606401.
- HEADWALL FOR BACKSLOPE OUTLET MAY BE USED FOR PIPE DRAIN DIAMETERS UP TO 10" (250 mm). SPECIAL DESIGNS WILL BE REQUIRED FOR LARGER SIZES.
- THE INSPECTION WELL LID FOR P.C.C. PIPE SHALL BE CONSTRUCTED OF 3/8" (10 mm) CAST IRON AND PROVIDED WITH A 1" (25 mm) DIAMETER HOLE IN CENTER. THE LID FOR THE OTHER PIPE MATERIALS SHALL BE A GRATE ASSEMBLY PREFABRICATED FOR AND COMPATIBLE WITH THE PIPE SYSTEM.



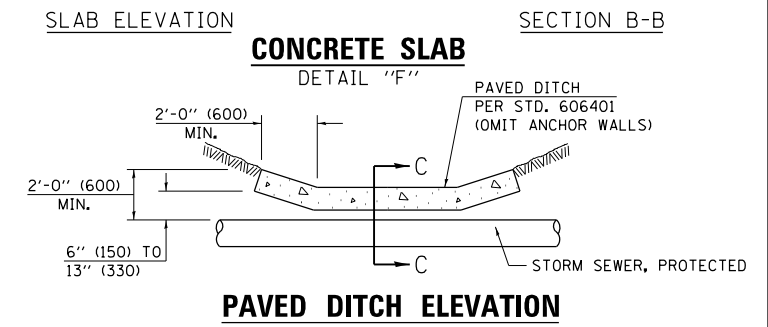
**PAVED DITCH**

DETAIL "E"



**CONCRETE SLAB**

DETAIL "F"



**PAVED DITCH ELEVATION**

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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USER NAME = afernandez	DESIGNED - AF	REVISED -
PLOT SCALE = 2.0000' / in.	DRAWN - AF	REVISED -
PLOT DATE = 8/19/2015	CHECKED - KJK	REVISED -
	DATE - 8/19/2015	REVISED -

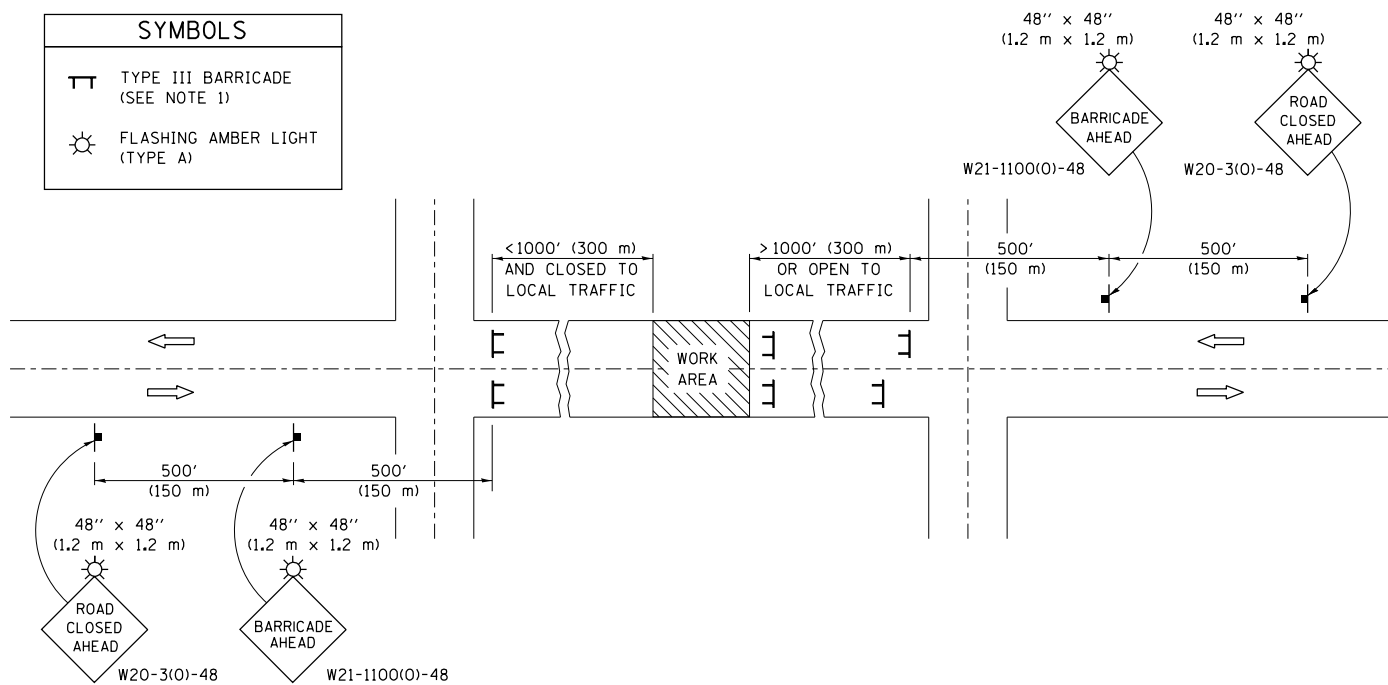
<b>FIELD TILE SYSTEMS</b> (TREATMENT OF EXISTING)	
SCALE: N.T.S.	SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	41B-1	CHAMPAIGN	40	30
CONTRACT NO. 70598				
ILLINOIS FED. AID PROJECT				

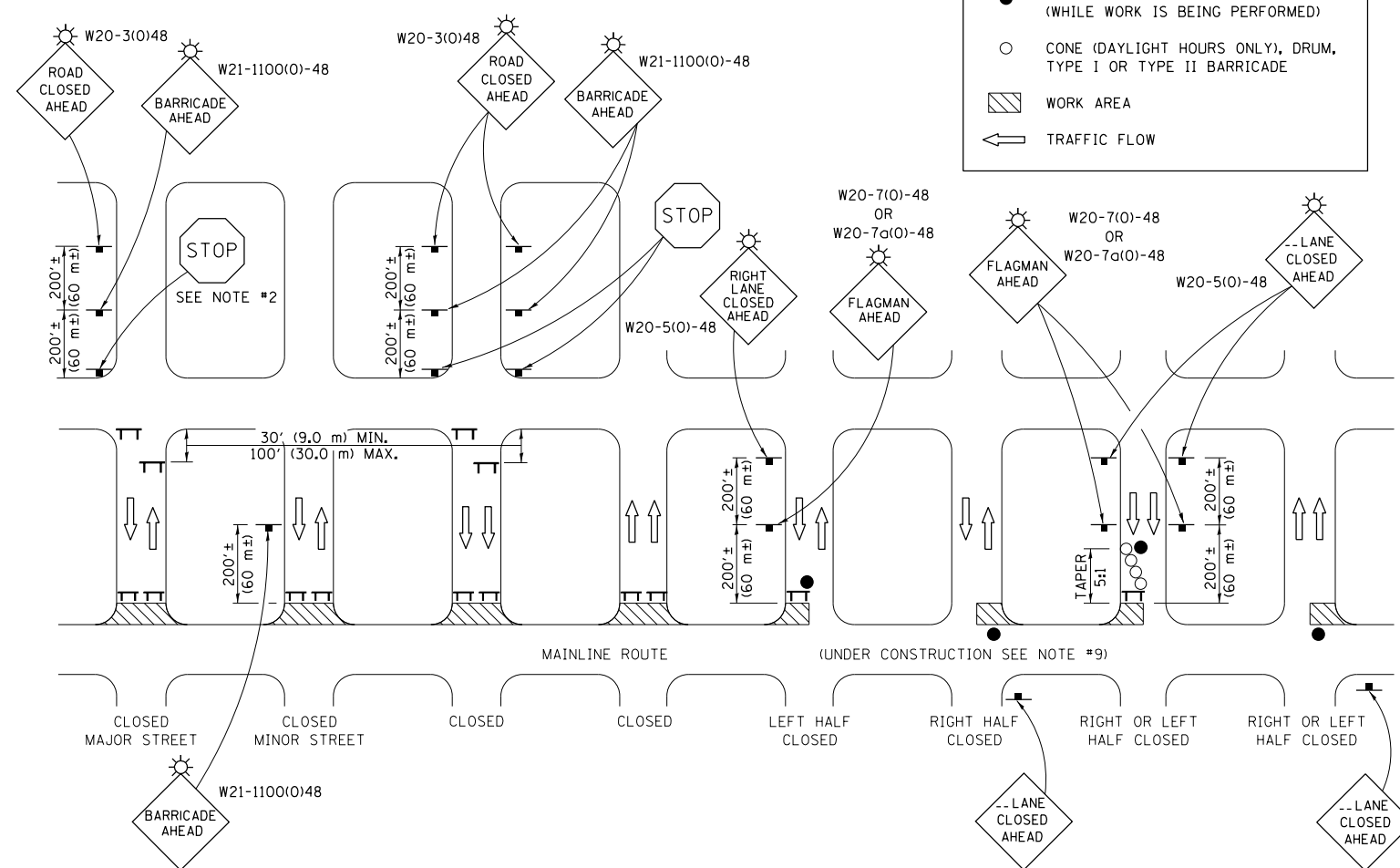
## ROAD CLOSURE

## SIDEROAD / STREET CLOSURE

SYMBOLS	
	TYPE III BARRICADE (SEE NOTE 1)
	FLASHING AMBER LIGHT (TYPE A)



SYMBOLS	
	TYPE III BARRICADE (SEE NOTE)
	FLASHING LIGHT
	FLAGGER WITH TRAFFIC CONTROL SIGN (WHILE WORK IS BEING PERFORMED)
	CONE (DAYLIGHT HOURS ONLY), DRUM, TYPE I OR TYPE II BARRICADE
	WORK AREA
	TRAFFIC FLOW



### GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 701901 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
- WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
- REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TYPE III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT. 725 AND BT. 726 ARE REQUIRED.
- WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
- AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.

### GENERAL NOTES

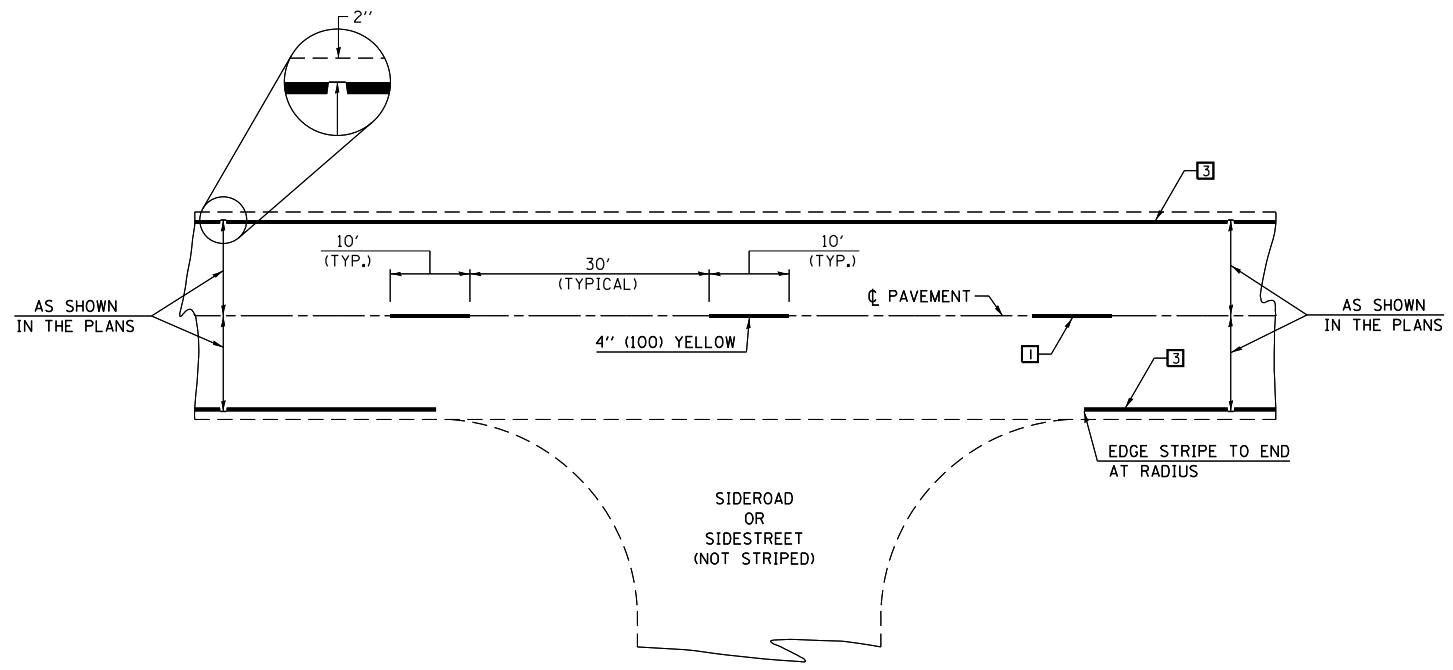
- TYPE III BARRICADES SHALL BE AS SHOWN ON "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- WHERE A STOP CONDITION EXISTS, AS SHOWN ABOVE, WARNING SIGNS MAY BE OMITTED IN ADVANCE OF THE "STOP" SIGN.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & MANUFACTURE OF TYPE III BARRICADES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ONE FLASHING LIGHT IS REQUIRED ABOVE EACH ADVANCE WARNING SIGN DURING HOURS OF DARKNESS.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT 725 AND BT 726 ARE REQUIRED.
- THE MAINLINE ROUTE TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
- ALL FLAGGERS REQUIRED AT SIDE ROADS AND ENTRANCES REMAINING OPEN TO TRAFFIC AND/OR ADDITIONAL BARRICADES REQUIRED BY THE ENGINEER TO CLOSE SIDE ROADS AND ENTRANCES WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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<b>INFRASTRUCTURE ENGINEERING</b> 456 Fulton Street   Suite 104   Peoria, IL 61602 P 309.637.9000   F 309.637.9210   www.infrastructure-eng.com	USER NAME = afernandez DESIGNED - AF DRAWN - AF CHECKED - KJK DATE - 8/19/2015	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL &amp; PROTECTION DEVICES</b> <b>(ROAD &amp; SIDEROAD/STREET CLOSURES)</b>	F.A.S. RTE. 522 SECTION 41BR-1 COUNTY CHAMPAIGN TOTAL SHEETS 40 SHEET NO. 31
	PLOT SCALE = 2.0000' / in. PLOT DATE = 8/19/2015	DATE - 8/19/2015			SCALE: N.T.S. SHEET 3 OF 5 SHEETS STA. TO STA.

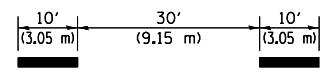
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**TWO LANE/TWO WAY**

**TYPICAL PAVEMENT MARKING LEGEND**

- 1 4" SKIP-DASH (YELLOW)
- 2 4" SOLID (YELLOW)
- 3 4" SOLID (WHITE)



<b>INFRASTRUCTURE ENGINEERING</b> <small>INCORPORATED</small> 456 Fulton Street   Suite 104   Peoria, IL 61602 P 309.637.9200   F 309.637.9210   www.infrastructure-eng.com	USER NAME = <i>afernandez</i>	DESIGNED - AF	REVISED -
		DRAWN - AF	REVISED -
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	PLOT DATE = 8/19/2015	DATE - 8/19/2015	REVISED -

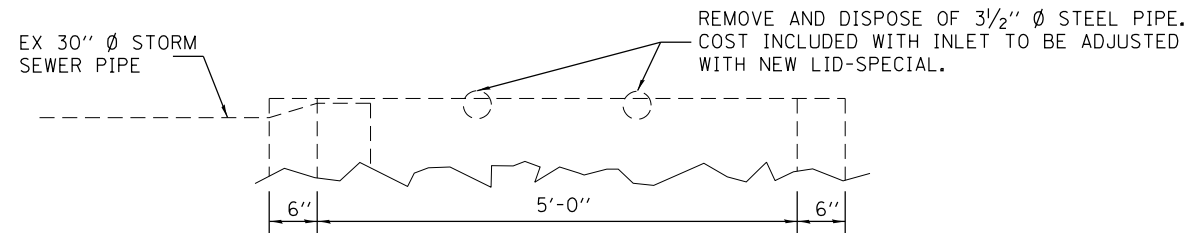
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>PAVEMENT MARKING AND MARKERS</b>	
<b>(RURAL &amp; URBAN APPLICATIONS)</b>	
SCALE: N.T.S.	SHEET 4 OF 5 SHEETS STA. TO STA.

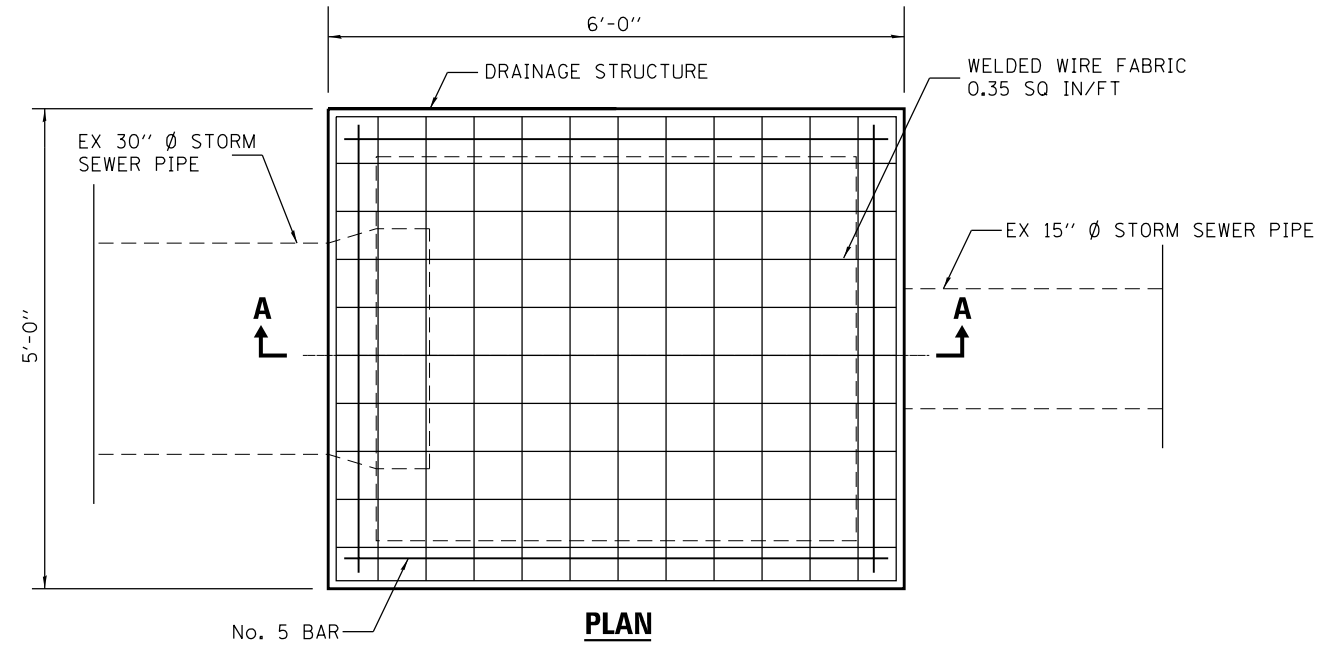
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	41BR-1	CHAMPAIGN	40	32
CONTRACT NO. 70598				
ILLINOIS FED. AID PROJECT				



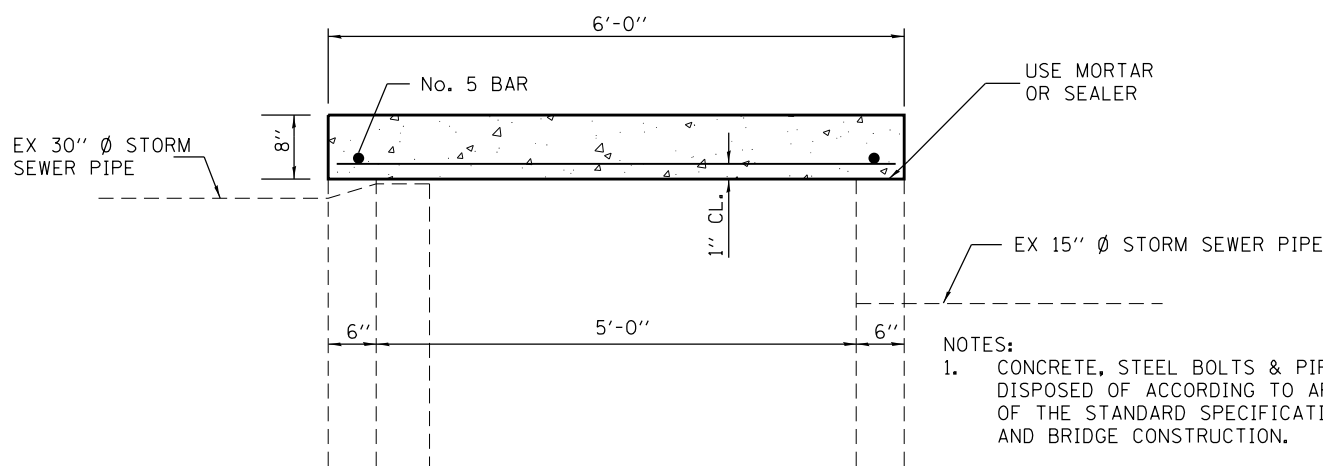
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**SECTION A-A  
PIPE REMOVAL DETAIL**



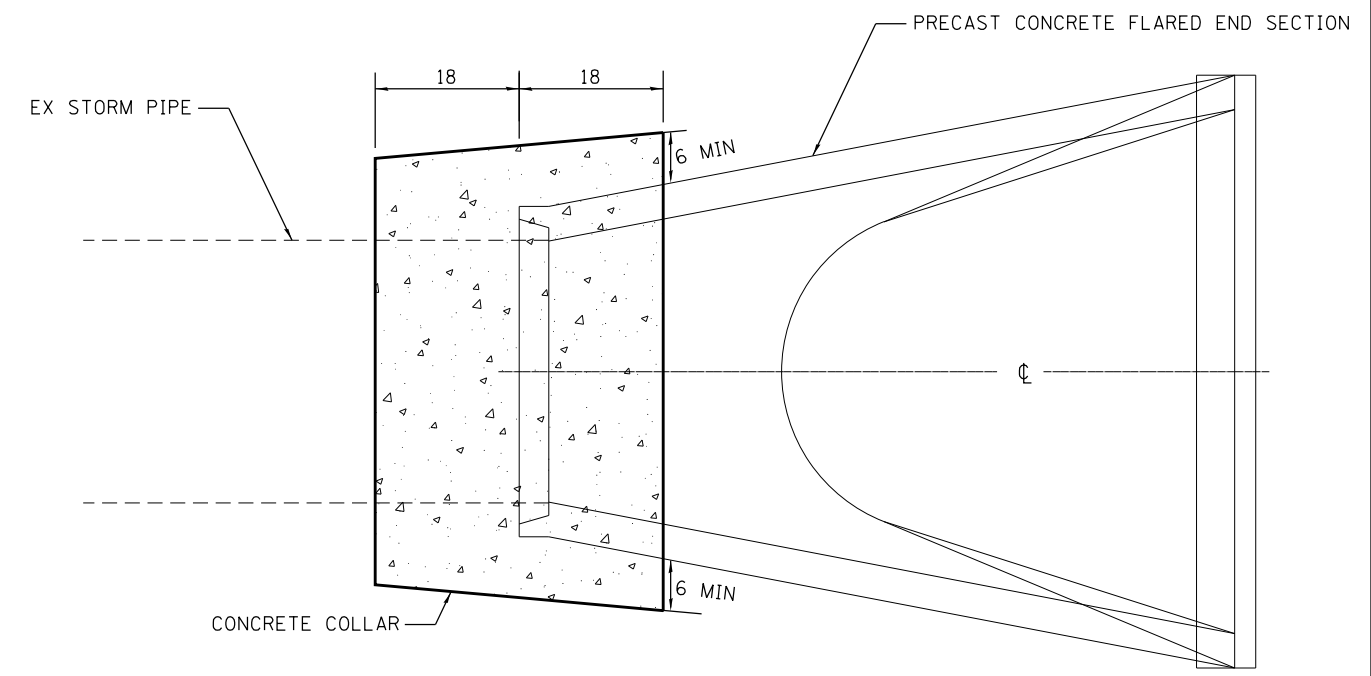
**PLAN**



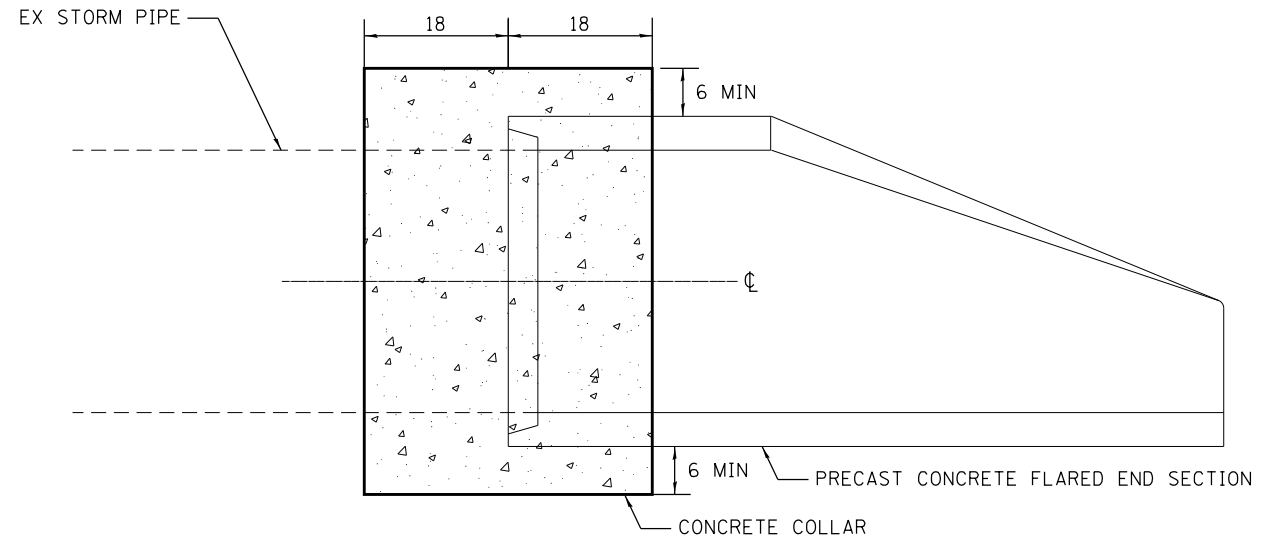
**SECTION A-A  
CONCRETE ALTERATION DETAIL**

- NOTES:**
1. CONCRETE, STEEL BOLTS & PIPES WILL BE DISPOSED OF ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
  2. CONTRACTOR TO VERIFY ALL DIMENSIONS.
  3. CONTRACTOR SHALL REMOVE ANY DEBRIS PRIOR TO THE INSTALLATION OF THE CONCRETE SLAB.
  4. PAID AS "INLET TO BE ADJUSTED WITH NEW LID-SPECIAL."
  5. PIPE CALLOUTS ARE TO OUTER WALL OF PIPE.

**INLET TO BE ADJUSTED WITH NEW LID-SPECIAL  
STA 380+10 ALTERATIONS**



**PLAN**



**PROFILE**

- NOTES:**
1. PIPE CALLOUTS ARE TO INNER WALL OF PIPE.

**CONCRETE COLLAR**

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

	USER NAME = afernandez	DESIGNED - AF	REVISED -
	PLOT SCALE = 2.0000' / in.	DRAWN - AF	REVISED -
	PLOT DATE = 8/21/2015	CHECKED - SPK	REVISED -
		DATE - 4/21/2015	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

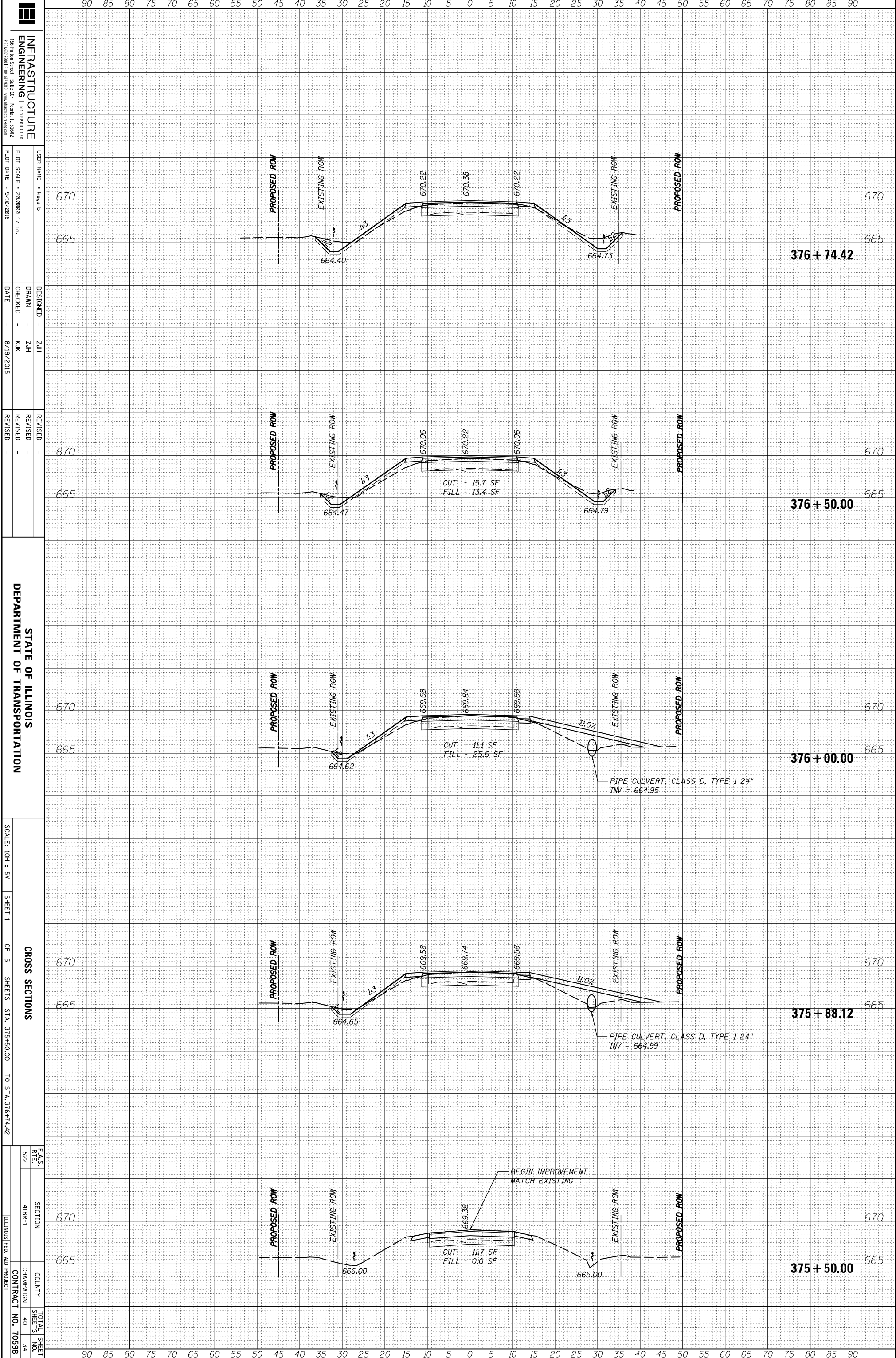
<b>INLET TO BE ADJUSTED WITH NEW LID-SPECIAL &amp; CONCRETE COLLAR</b>			
SCALE: N.T.S.	SHEET 5 OF 5 SHEETS	STA.	TO STA.

F.A.S. RTE. 522	SECTION 41BR-1	COUNTY CHAMPAIGN	TOTAL SHEETS 40	SHEET NO. 33
CONTRACT NO. 70598				
ILLINOIS FED. AID PROJECT				

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

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**INFRASTRUCTURE ENGINEERING**  
 456 Fulton Street, Suite 1001, Peoria, IL 61602  
 P: 309.696.1111 | F: 309.696.2111 | www.infrastructure-engineering.com

USER NAME: kkgp@ie  
 PLOT SCALE: 28,00000' / 1" / in.  
 PLOT DATE: 5/18/2016

DESIGNED: ZJH  
 DRAWN: ZJH  
 CHECKED: KJK  
 DATE: 8/19/2015

REVISED: -  
 REVISED: -  
 REVISED: -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

SCALE: 10H = 5V  
 SHEET 1 OF 5 SHEETS

**CROSS SECTIONS**  
 STA. 375+50.00 TO STA. 376+74.42

F.A.S. RTE. 522	SECTION 41BR-1	COUNTY CHAMPAIGN	TOTAL SHEET NO. 40
		CONTRACT NO. 70598	SHEET NO. 34

ILLINOIS FED. AID PROJECT

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
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FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	CHECKED _____		

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**INFRASTRUCTURE ENGINEERING**  
456 Filson Street, Suite 1001, Peoria, IL 61602  
P: 309.696.1111 | F: 309.696.2111 | www.infrastructure-engineering.com

USER NAME: kspg@ie  
PLOT SCALE: 28,00000 / 1" = 100'  
PLOT DATE: 5/18/2016

DESIGNED: ZJH  
DRAWN: ZJH  
CHECKED: KJK  
DATE: 8/19/2015

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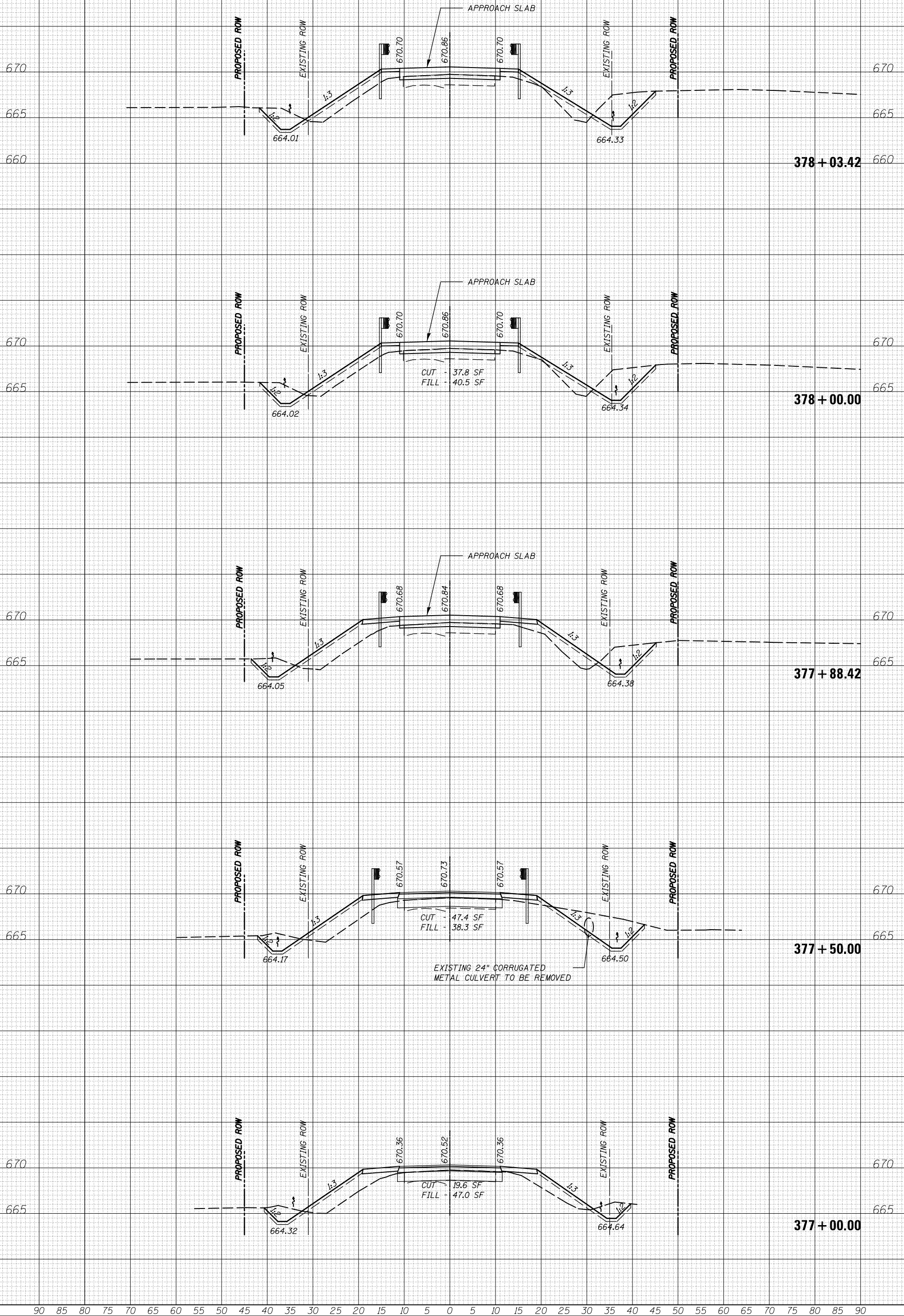
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

SCALE: 10H = 5V  
SHEET 2 OF 5 SHEETS  
STA. 377+00.00 TO STA. 378+03.42

**CROSS SECTIONS**

F.A.S. RTE. 522	SECTION 41BR-1	COUNTY CHAMPAIGN	TOTAL SHEETS 40
		CONTRACT NO. 70598	SHEET NO. 35

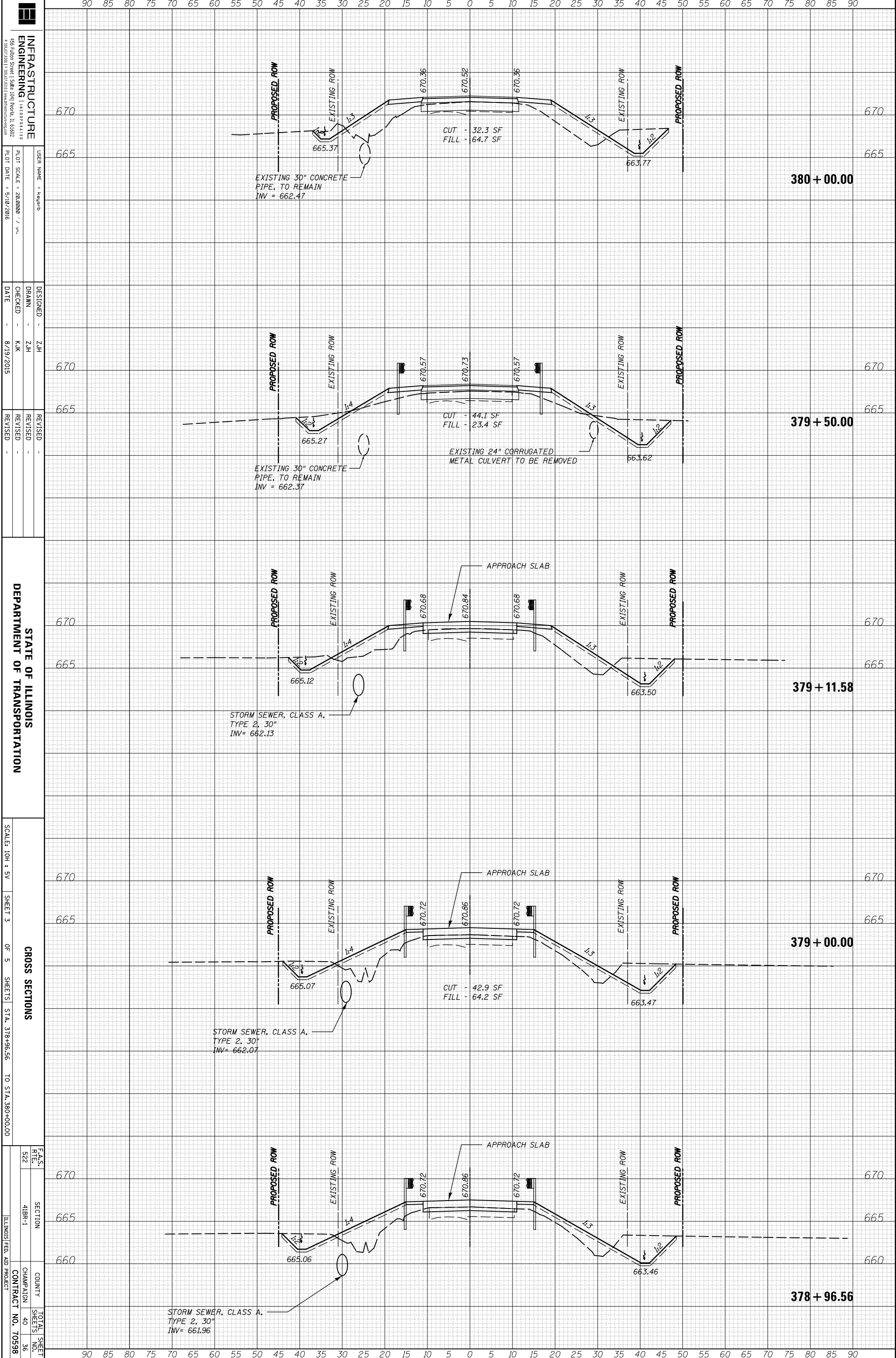
**BRIDGE OMISSION  
STA. 378 + 17.42 TO STA. 378 + 82.58**



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

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 P: 309.696.1111 | F: 309.696.1112 | www.infrastructure-engineering.com

USER NAME: ksp@ie  
 DRAWN: ZJH  
 CHECKED: KJK  
 DATE: 8/19/2015

DESIGNED: ZJH  
 REVISIONS:  
 REVISION NO. | DATE | DESCRIPTION

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE: 1/8" = 1'-0"  
 SHEET 3 OF 5 SHEETS  
 STA. 378+96.56 TO STA. 380+00.00

**CROSS SECTIONS**

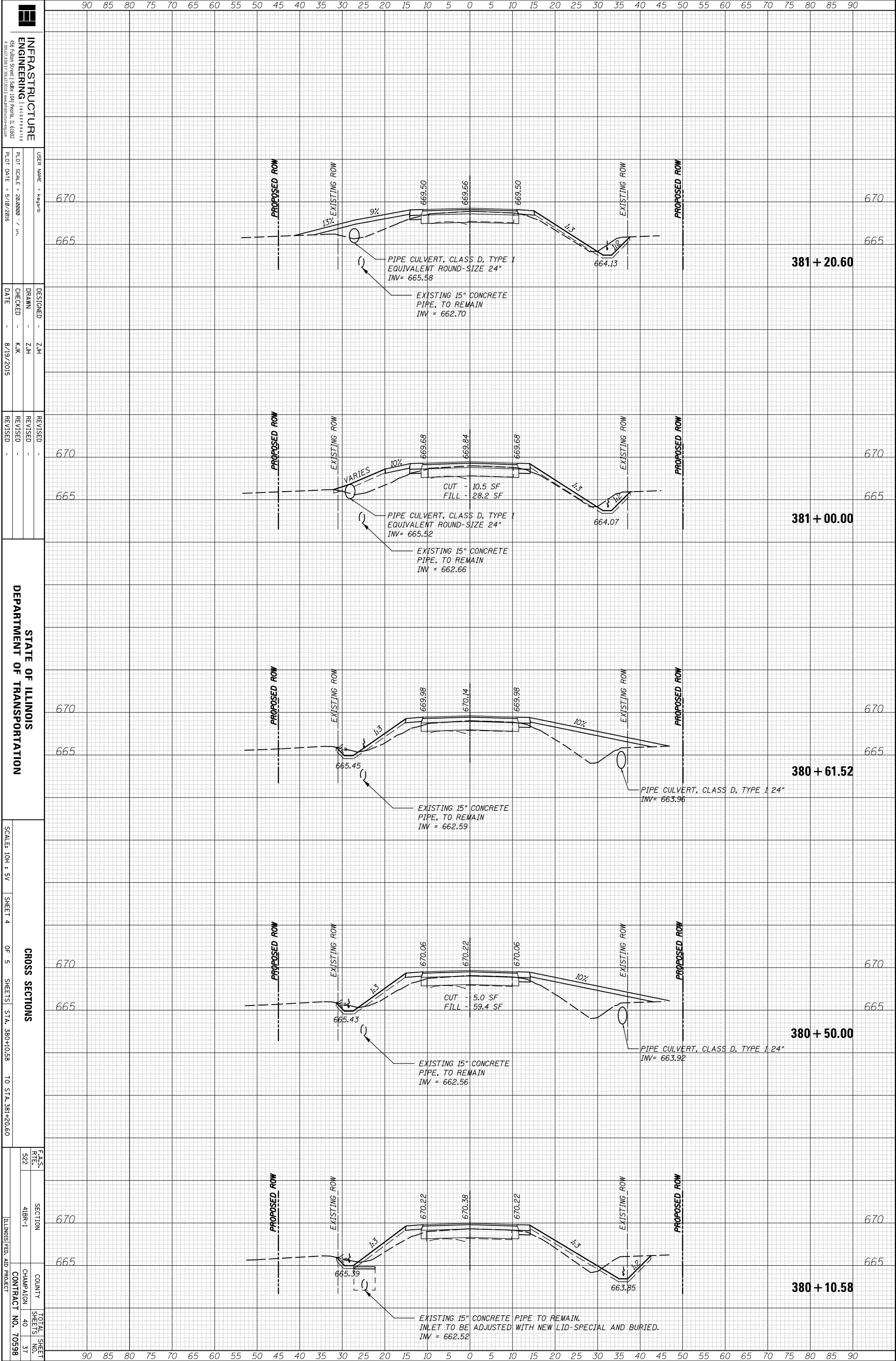
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522	41BR-1	CHAMPAIGN	40
ILLINOIS FED. AID PROJECT			SHEETS NO. 36
			CONTRACT NO. 70598

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	CHECKED _____		

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 P: 309.696.1111 | F: 309.696.1112 | www.infrastructure-engineering.com

USER NAME: kkgp@ie  
 DRAWN: ZJH  
 CHECKED: KJK  
 DATE: 8/19/2015

DESIGNED: ZJH  
 REVISIONS:  
 REVISION NO. | DATE | DESCRIPTION

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**


SCALE: 10H = 5V  
 SHEET 4 OF 5 SHEETS  
 STA. 380+10.58 TO STA. 381+20.60

**CROSS SECTIONS**  
 F.A.S. RTE. 522  
 SECTION 41BR-1  
 COUNTY CHAMPAIGN  
 CONTRACT NO. 70598  
 TOTAL SHEETS 40  
 SHEET NO. 37

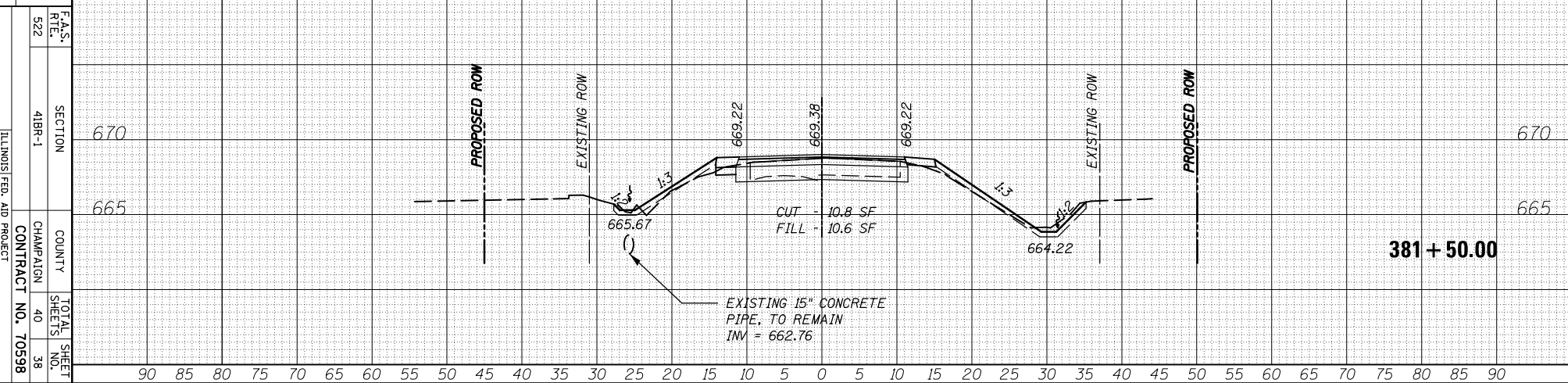
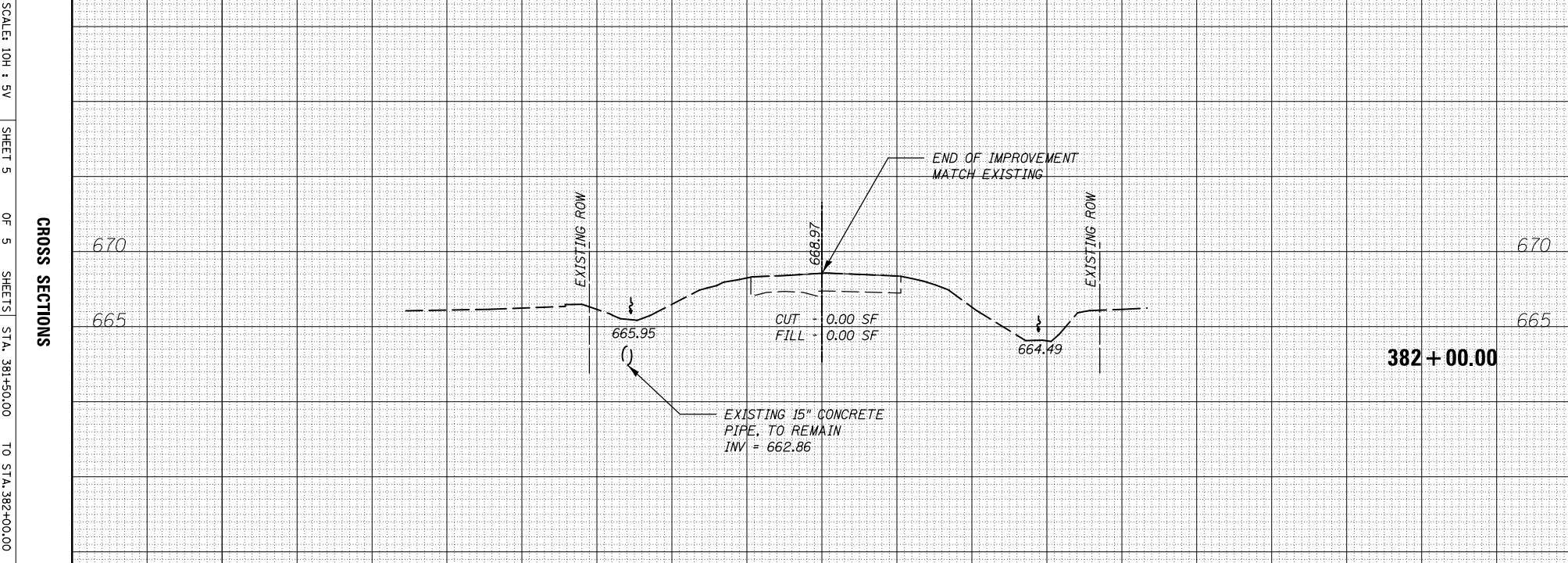
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NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		
NO.			

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

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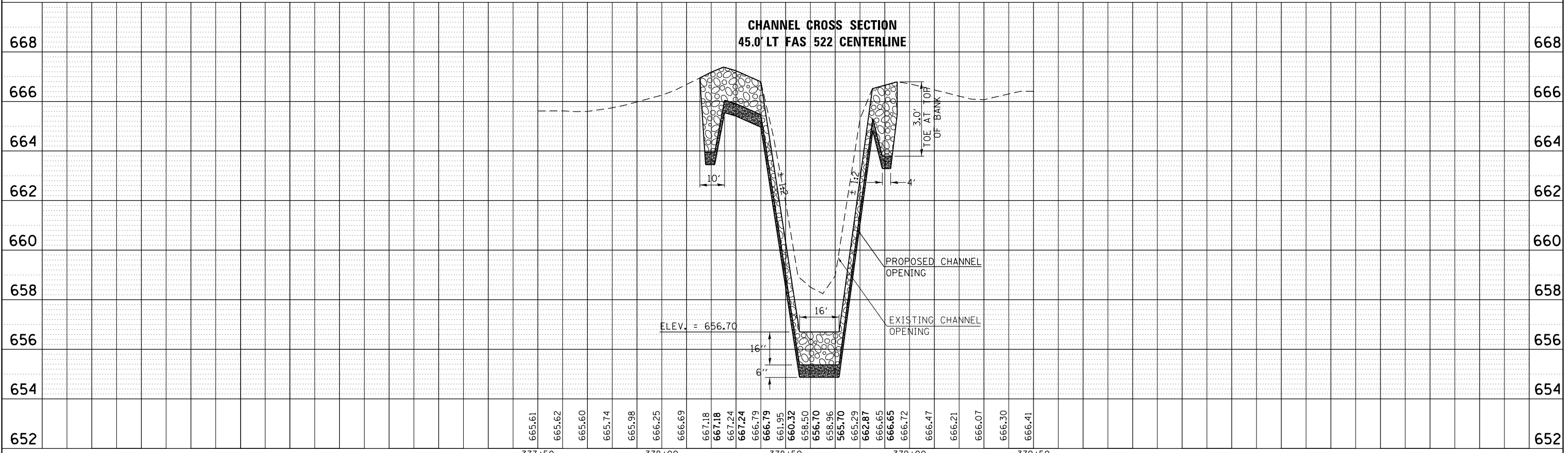
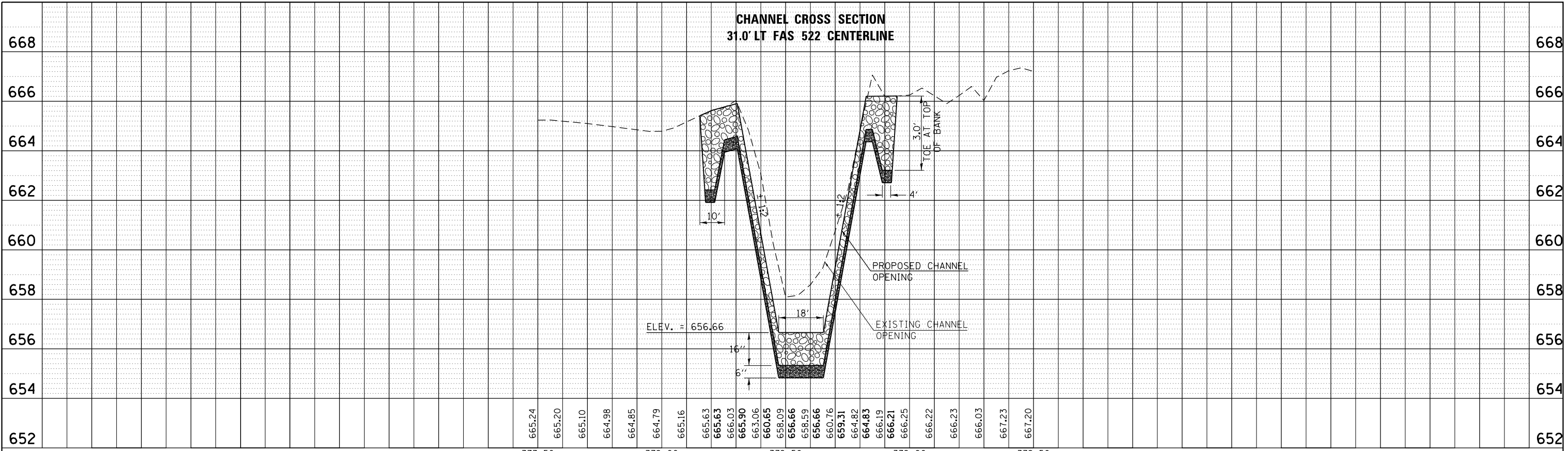
 <b>INFRASTRUCTURE ENGINEERING</b> 456 Fulton Street, Suite 1001, Peoria, IL 61602 P: 309.696.1111   F: 309.696.1112   www.infrastructure-engineering.com	USER NAME: kkgp@ie PLOT SCALE: 28.0000' / 1" = PLOT DATE: 5/18/2016	DESIGNED: ZJM DRAWN: ZJM CHECKED: KJK DATE: 8/19/2015	REVISED: DRAWN: CHECKED: DATE:
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**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**



F.A.S. RTE. 522	SECTION 41BR-1	COUNTY CHAMPAIGN	TOTAL SHEETS 40
SHEETS 5 OF 5			SHEET NO. 38
SCALE: 10H = 5V			CONTRACT NO. 70598
SHEET 5 OF 5 SHEETS STA. 381+50.00 TO STA. 382+00.00			ILLINOIS FED. AID PROJECT

90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90



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**INFRASTRUCTURE ENGINEERING**  
 INCORPORATED  
 456 Fulton Street | Suite 104 | Peoria, IL 61602  
 P 309.637.9000 | F 309.637.9210 | www.infrastructure-eng.com

USER NAME = afernandez  
 PLOT SCALE = 40.0000' / in.  
 PLOT DATE = 8/19/2015

DESIGNED - AF  
 DRAWN - AF  
 CHECKED - KJK  
 DATE - 8/19/2015

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

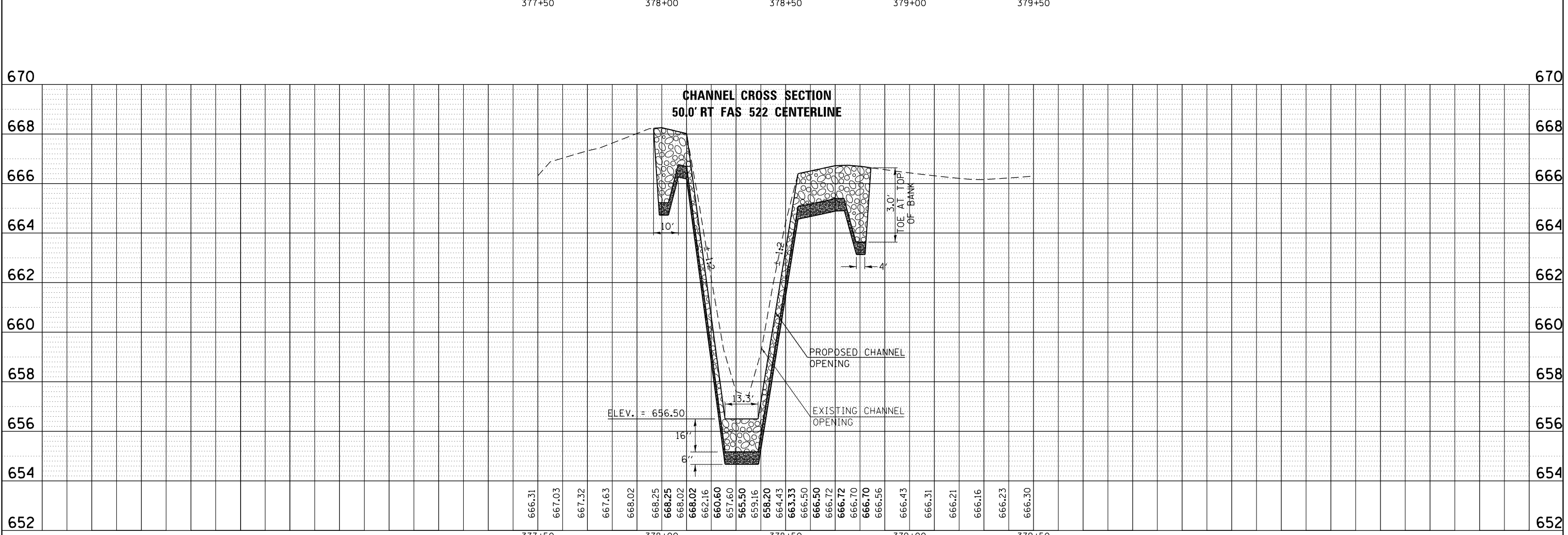
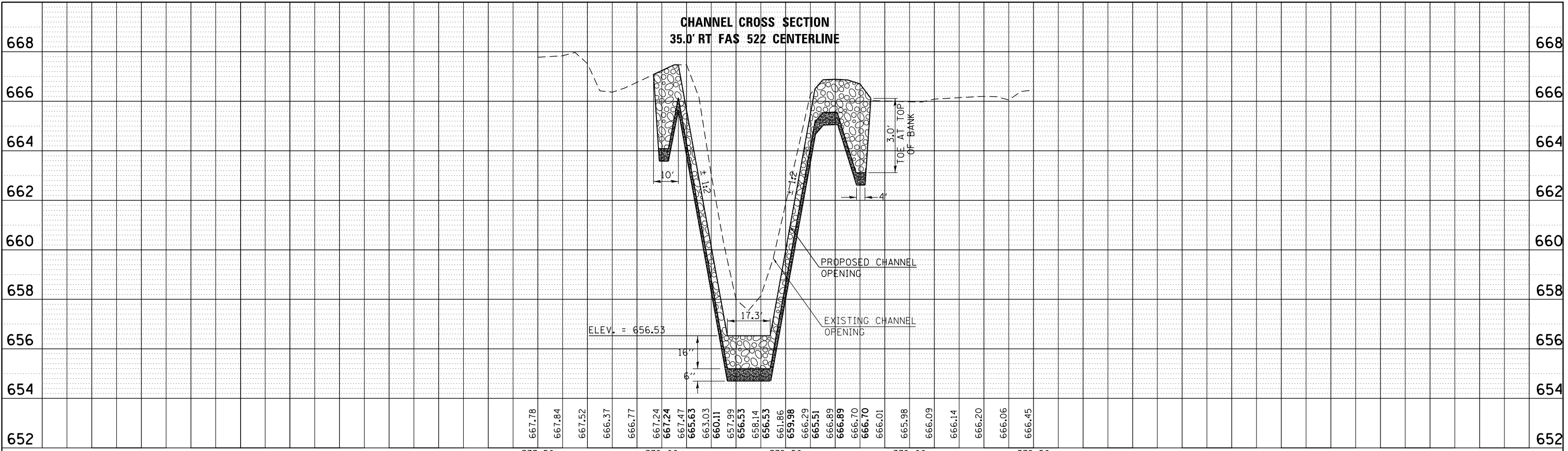
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CHANNEL CROSS SECTIONS**

SCALE: 20H : 2V SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	41BR-1	CHAMPAIGN	40	39
CONTRACT NO. 70598				

ILLINOIS FED. AID PROJECT



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<b>INFRASTRUCTURE ENGINEERING</b> INCORPORATED 456 Fulton Street   Suite 104   Peoria, IL 61602 P 309.637.9000   F 309.637.9218   www.infrastructure-eng.com	USER NAME = afernandez DESIGNED - AF DRAWN - AF CHECKED - KJK DATE - 8/19/2015	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CHANNEL CROSS SECTIONS</b> SCALE: 20H : 2V SHEET 2 OF 2 SHEETS STA. TO STA.	<table border="1"> <tr> <th>F.A.S. RTE.</th> <th>SECTION</th> <th>COUNTY</th> <th>TOTAL SHEETS</th> <th>SHEET NO.</th> </tr> <tr> <td>522</td> <td>41BR-1</td> <td>CHAMPAIGN</td> <td>40</td> <td>40</td> </tr> </table> CONTRACT NO. 70598 ILLINOIS FED. AID PROJECT	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	522	41BR-1	CHAMPAIGN	40	40
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.											
522	41BR-1	CHAMPAIGN	40	40											