CONSULTANT: BRIAN MALONE (630-969-7000)

PROJECT ENGINEER: REBECCA MARRUFFO

DISTRICT 2 BUREAU OF DESIGN

SQUAD LEADER: CHRIS CONDIMAN (815-284-5955)

1-21-11 LETTING ITEM 059

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	1
	ILLINOIS	CONTRACT NO. 64D25		

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ROBERT TESSMORE 62-41333 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS	FRED M. LIN 062-056704 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS	STATE OF ILLINOIS BRIAN J. MALONE 061-006002 WHEATON, ILLINOIS LICENSED STRUCTURAL ENGINEER
EXPIRES: 11-30-2011	EXPIRES: 11-30-2011	EXPIRES: 11-30-2012
SHEETS 1-15, 56-58, 60, 77-93	SHEETS 16-21, 51-55, 70-76	SHEETS 22-50

Wight & Company
2500 North Frontage Road, Darien, Il 60561
630.969.7000 630.969.7979 fax
Design Firm Registration 184-000451

LIN ENGINEERING,LTD.
Consulting Engineers
Chatham, Illinois Westmont, Illinois

1" = 100' / 1" = 10' / 1" = 50' / 1" = 40' / 1" = 30' / 1" = 20'

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

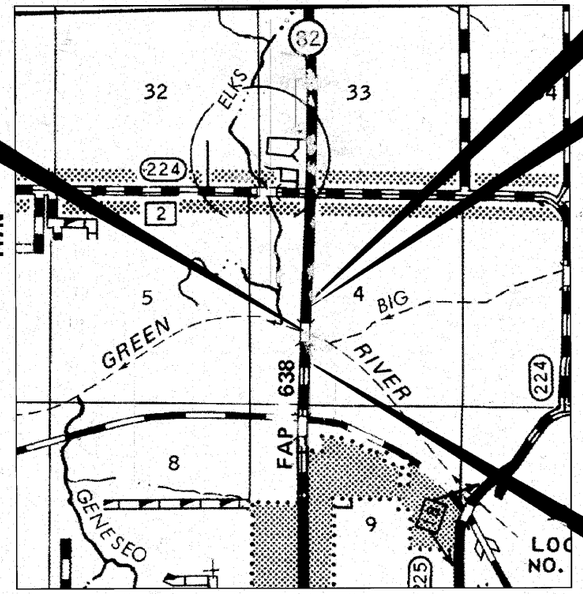
FAP ROUTE 638 (IL ROUTE 82)
SECTION 129BR-4
PROJECT F-0638(023)
BRIDGE REPLACEMENT AND EXTENSION OF EXISTING ACROSS ROAD BOX CULVERT
HENRY COUNTY

C-92-118-10

GENESEO TOWNSHIP SEC 4 - SW 1/4

RSE

T17N



BRIDGE REPLACEMENT
EXISTING SN: 037-0071
PROPOSED SN: 037-0176
STA 1264+99.00 REMOVE EXISTING 3-SPAN PPC DECK BEAM BRIDGE
STA 1265+04.88 CONSTRUCT 3-SPAN PPC DECK BEAM BRIDGE

IMPROVEMENT & SECTION ENDS
STA 1271+25.00

BOX CULVERT EXTENSION
SN 037-1085
STA 1259+05.61

N

LOCATION MAP
NOT TO SCALE

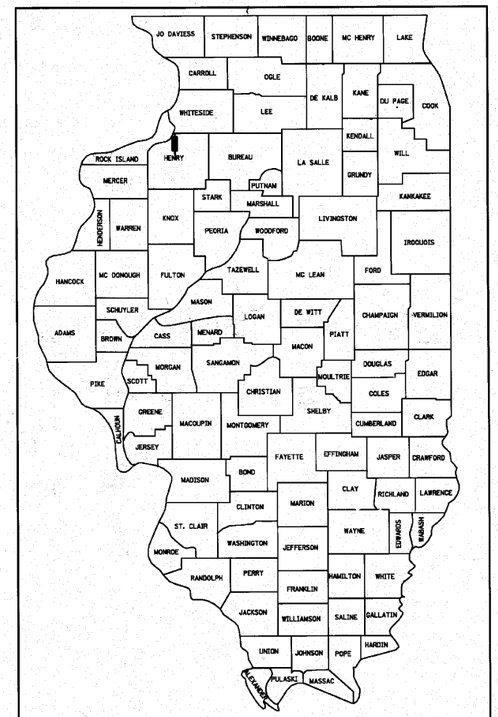
SECTION BEGINS
STA 1259+50.00

IMPROVEMENT BEGINS
STA 1258+01.00

GROSS LENGTH = 1175.00 FT. = 0.223 MILE
NET LENGTH = 978.50 FT. = 0.185 MILE

PROJECT LOCATED ON
IL ROUTE 82 OVER GREEN RIVER
4.5 MI. SOUTH OF IL ROUTE 92

D-92-065-07



LOCATION OF SECTION INDICATED THUS: -

FUNCTIONAL CLASSIFICATION
RURAL MINOR ARTERIAL
2010 ADT = 5675
SPEED LIMIT: 55 MPH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 11/5 2010

George E. Ryan
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 10 2010

Scott E. Stitt, P.E. /bc
acting ENGINEER OF DESIGN AND ENVIRONMENT

December 10 2010

Christine M. Reed /bc
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 64D25 FAP ROUTE 638 HENRY COUNTY SECTION 129BR-4

GENERAL NOTES

1. SEE CROSS SECTIONS FOR SPECIAL DITCHES AND BACK SLOPES.
2. THE REMOVAL OF BITUMINOUS SURFACING NOT ON A RIGID TYPE BASE REMOVED IN CONJUNCTION WITH THE BASE SHALL BE REMOVED AS EARTH EXCAVATION. THE REMOVAL OF BITUMINOUS SURFACING ON A RIGID TYPE BASE REMOVED IN CONJUNCTION WITH THE BASE SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PAVEMENT REMOVAL OF THE TYPE SPECIFIED.
3. THE FINAL TOP FOUR INCHES OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE CAPABLE OF SUPPORTING VEGETATION. THE SOIL MUST BE FROM THE A HORIZON (ZERO TO 2' DEEP) OF SOIL PROFILES OF LOCAL SOILS.
4. ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTH MOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.
5. THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING CLASS 4 OR 2A SHALL BE USED, EXCEPT IN FRONT OF PROPERTIES WHERE THE GRASS WILL BE MOWED, THEN USE SEEDING, CLASS 1. CLASS 2A SHALL BE USED ON FRONT SLOPES AND DITCH BOTTOMS. CLASS 4 SHALL BE USED BEHIND TYPE A GUTTER, ON ALL BACK SLOPES AND AREAS BEHIND THE BACK SLOPE, AND BEYOND THE TOE OF FRONT SLOPE ON FILL SECTIONS WITHOUT DITCHES.
6. FERTILIZER NUTRIENTS SHALL BE APPLIED AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. THIS SHALL BE INCLUDED IN THE COST OF THE SEEDING.
7. PLACEMENT AND COMPACTION OF THE BACKFILL FOR PROPOSED ACROSS ROAD CULVERTS AND EXISTING ACROSS ROAD CULVERTS THAT ARE REMOVED SHALL CONFORM TO SECTION 502.10 OF THE STANDARD SPECIFICATIONS, EXCEPT THAT THE MATERIAL SHALL CONFORM TO ARTICLE 208.02 OF THE STANDARD SPECIFICATIONS, AND SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE STANDARD LABORATORY DENSITY. ANY MATERIAL CONFORMING TO THE REQUIREMENTS OF ARTICLE 1003.04 OR 1004.05 WHICH HAS BEEN EXCAVATED FROM THE TRENCHES SHALL BE USED FOR BACKFILLING THE TRENCHES. THE ENTIRE EXCAVATION, WITHIN 2 FEET OUTSIDE OF EACH SHOULDER, SHALL BE BACKFILLED WITH TRENCH BACKFILL MATERIAL TO THE BOTTOM OF THE PROPOSED SUBGRADE. IMPERVIOUS MATERIAL SHALL BE USED ON THE OUTER 3 FEET AT EACH END OF THE CULVERT. THIS TRENCH BACKFILL MATERIAL WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE CLASS OF CONCRETE INVOLVED OR OTHER UNIT PRICE ITEM OF THE WORK FOR WHICH IT IS REQUIRED.
8. THE DROP OFF THAT OCCURS AT ENTRANCE EDGES AS A RESULT OF RESURFACING OF THE ENTRANCE SHALL BE CORRECTED USING AGGREGATE SHOULDER MATERIAL. THIS WORK SHALL BE PAID FOR BY THE TON FOR AGGREGATE SHOULDERS OF THE TYPE SPECIFIED IN THE PLANS.
9. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USES(S):	SURFACE	LEVEL BINDER	BINDER	TOP SHOULDER
PG.	PG 64-22	PG 64-22	PG 64-22	PG 58-22
RAP%: (MAX)	15	25	25	30
DESIGN AIR VOIDS	4.2 @ N50	4.2 @ N50	4.2 @ N50	3 @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5 OR 12.5	IL 9.5	IL 19.0	IL 9.5 OR 12.5
FRICTION AGGREGATE	D	N/A	N/A	C
20 YEAR ESAL	0.4	0.4	0.4	N/A

10. THE CONTRACTOR WILL BE REQUIRED TO FURNISH 140MM (5 1/2") HIGH BRASS STENCILS AS APPROVED BY THE ENGINEER AND INSTALL STATIONING AT 250' INTERVALS. STATIONING SHALL BE PLACED ON BOTH LANES OF 2-LANE HIGHWAYS AND ON THE OUTSIDE LANES IN BOTH DIRECTIONS ON 4-LANE HIGHWAYS. THE STATIONS SHALL BE PLACED 150MM (6") INSIDE THE PAVEMENT MARKING EDGE SO THEY CAN BE READ FROM THE SHOULDER. THIS WORK WILL BE INCLUDED IN THE COST OF THE FINAL PAVEMENT SURFACE.
11. THE AREA TO BE PRIMED SHALL BE LIMITED TO THAT WHICH CAN BE COVERED WITH HMA THE SAME DAY, UNLESS OTHERWISE PERMITTED BY THE ENGINEER.
12. BITUMINOUS PRIME COAT SHALL BE PLACED IN ACCORDANCE WITH SECTION 406 OF THE STANDARD SPECIFICATIONS. THE COST OF THE PRIME COAT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER METRIC TON (TON) FOR LEVELING BINDER (MACHINE METHOD) OF THE TYPE SPECIFIED.
13. THE NEW NUMBER FOR THE STRUCTURE CARRYING IL 82 OVER GREEN RIVER WILL BE 037-0176.
14. THE THICKNESS FOR THE BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) ADJACENT TO EXISTING PAVEMENT SHALL BE A MINIMUM OF 12". THE MATERIAL SHALL BE 50 MM (2") HOT-MIX ASPHALT SURFACE COURSE, AND THE REMAINING THICKNESS SHALL BE HOT-MIX ASPHALT BINDER COURSE.
15. REFLECTOR MARKERS TYPE B SHALL BE INSTALLED ON THE TOP OF BRIDGE PARAPET WALLS. THE MARKERS SHALL BE ACCORDING TO STANDARD 635011 AND THE COLOR AND SPACING ACCORDING TO STANDARD 635006, EXCEPT THE MINIMUM IS 2 PER SIDE.
16. CULVERT & BRIDGE FLOWS MUST BE MAINTAINED THROUGHOUT THE PROJECT. NORMAL FLOW SHALL BE ALLOWED TO PASS AT THE RATE IT ENTERS THE JOB SITE. HIGH FLOWS SHALL BE ALLOWED TO PASS WITHOUT CAUSING DAMAGE TO UPSTREAM PROPERTIES.
17. THE CONTRACTOR SHALL REMOVE ALL ENTRANCE CULVERTS IN CONDITION FOR REUSE WHICH ARE NOT TO BE LEFT IN PLACE. THEY SHALL BE CLEANED AND STORED ALONG THE RIGHT OF WAY AS DIRECTED. IN NO CASE SHALL THEY BE ROUGHLY HANDLED OR SHOVED BY HEAVY MACHINERY. UNUSABLE MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE. COST OF THE WORK TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION.
18. THE PROPOSED PIPES FOR ENTRANCES AND SIDE ROADS SHALL BE PLACED IN LINE WITH THE EXISTING OR PROPOSED DITCH LINE.
19. CONNECTING BANDS FOR CORRUGATED METAL PIPES SHALL BE METAL AND SHALL BE COATED WITH THE SAME MATERIAL AS THE PIPE SECTIONS. THE CONNECTING BANDS SHALL BE A MINIMUM OF 18" WIDE.
20. EMBANKMENT QUANTITIES FOR THE CONSTRUCTION OF THE TRAFFIC BARRIER TERMINALS AS SHOWN IN THE PLANS ARE INCLUDED IN QUANTITIES FOR EARTH EXCAVATION.
21. THE CONTRACTOR SHALL SUPPLY THE RESIDENT ENGINEER WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS FOR THE TYPE OF STEEL PLATE BEAM GUARDRAIL TERMINAL TYPE 1 SPECIAL (TANGENT) OR STEEL PLATE BEAM GUARDRAIL TERMINAL TYPE I SPECIAL (FLARED).
22. ONE 16D GALVANIZED NAIL SHALL BE USED TO TOE NAIL THE WOOD BLOCK OUT TO THE WOOD POST ON ALL TRAFFIC BARRIER TERMINAL TYPE I SPECIALS.
23. DELINEATORS SHALL BE INSTALLED AS SHOWN IN STANDARD 635001, EXCEPT THAT THE POST SHALL BE ROTATED 180 DEGREES AND ONLY METAL-BACKED DELINEATORS SHALL BE PERMITTED.
24. DELINEATORS SHALL BE PLACED AT THE ENDS OF APPROACH GUARDRAIL TERMINAL SECTIONS, AND AT EACH HEADWALL OR END SECTION OF AR CULVERTS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR DELINEATORS.
25. PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:
    1. ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH.
    2. ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
    3. THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 8", NOT 7" AS SHOWN IN THE DETAIL OF TYPICAL LANE AND EDGE LINES.
26. PERMANENT SURVEY MARKERS, TYPE II, SHALL BE SET AT INTERVALS OF 1 MILE OR AS DIRECTED BY THE ENGINEER. BRIDGE OR CULVERT PROJECTS SHALL HAVE ONE SURVEY MARKER PLACED NEAR THE STRUCTURE. ESTIMATED: 2 EACH.
27. PERMANENT SURVEY MARKERS, TYPE II SHALL BE CAST-IN-PLACE AS SHOWN ON DISTRICT STANDARD 66.2. THE BOTTOM OF THE MARKER SHALL BE 5'-0" BELOW THE GROUND SURFACE.
28. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A DESCRIPTION OF LOCATION, ELEVATION, AND COORDINATES FOR EACH PERMANENT SURVEY MARKER. THE HORIZONTAL AND VERTICAL COORDINATES MUST BE DERIVED BY GPS AND THE ELEVATION DERIVED BY A CLOSED LEVEL CIRCUIT. THE ENGINEER SHALL SUBMIT THIS INFORMATION TO THE SURVEY CREW
29. TREE PLANTING LAYOUT SHALL BE PERFORMED BY THE DISTRICT LANDSCAPE ARCHITECT. MULCH SHALL BE PLACED 4" THICK AND TO THE DIAMETER AROUND THE TREE AS SHOWN ON DISTRICT STANDARD 92.1. THE MULCH SHALL BE HARDWOOD WOOD CHIPS PLACED ON WEED BARRIER FABRIC. THIS WORK SHALL BE INCLUDED IN THE COST OF THE TREE.
30. AGGREGATE BASE COURSE, TYPE B, IS PROVIDED IN THE PLAN QUANTITIES AND SHALL BE USED ONLY AS NEEDED WHEN DIRECTED BY THE ENGINEER.
31. RIGHT-OF-WAY MARKERS WILL BE ERECTED WITH THE BACK FACE OF THE MARKER ON THE RIGHT-OF-WAY LINE UNLESS THE NEW RIGHT-OF-WAY LINE HAS BEEN SURVEYED AND PINNED, IN WHICH INSTANCE THE RIGHT-OF-WAY MARKERS WILL BE ERECTED 300MM (12 INCHES) INSIDE THE NEW RIGHT-OF-WAY LINE.
32. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123. THE FOLLOWING LISTED UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS ARE MEMBERS OF JULIE:

UTILITY	COMPANY NAME	CONTACT	PHONE NUMBER
TELEPHONE	GENESEO TELEPHONE CO.	MR. MATT STORM	309-944-8012
ELECTRIC	MIDAMERICAN ENERGY COMPANY	MR. JEFF BERRY	309-793-3833
GAS	MIDAMERICAN ENERGY COMPANY	MR. STEVE HAMPTON	309-793-3707
CATV	MEDIACOM	MR. DENNIS JARDING	309-743-4750

33. FOLLOWING ARE THE KNOWN UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS WHICH ARE NOT MEMBERS OF JULIE AND SHOULD BE NOTIFIED INDIVIDUALLY BY THE CONTRACTOR:

UTILITY	COMPANY NAME	CONTACT	PHONE NUMBER
ELECTRIC	FARMERS MUTUAL ELECTRIC CO.	MR. ROBERT DELP	309-944-4669

34. CADD DATA WILL BE AVAILABLE TO CONTRACTORS AND CONSULTANTS WORKING ON THIS PROJECT. THIS INFORMATION WILL BE PROVIDED UPON REQUEST AS MICROSTATION CADD FILES AND GEOPAK COORDINATE GEOMETRY FILES ONLY. IF DATA IS REQUIRED IN OTHER FORMATS IT WILL BE YOUR RESPONSIBILITY TO MAKE THESE CONVERSIONS. IF ANY DISCREPANCY OR INCONSISTENCY ARISES BETWEEN THE ELECTRONIC DATA AND THE INFORMATION ON THE HARD COPY, THE INFORMATION ON THE HARD COPY SHOULD BE USED. CONTACT THE DISTRICT'S PROJECT ENGINEER TO REQUEST THESE FILES.
35. THE APPLICABLE PORTIONS OF ARTICLE 105.07 OF THE STANDARD SPECIFICATION SHALL APPLY EXCEPT FOR THE FOLLOWING: THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE THE VERTICAL DEPTHS OF THE UNDERGROUND UTILITIES WHICH MAY INTERFERE WITH CONSTRUCTION OPERATIONS. THIS WORK WILL NOT BE MEASURED OR PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICE FOR THE ITEM OF CONSTRUCTION INVOLVED.
36. PER SB 699 (90 DAY UTILITY RELOCATION LAW), ONCE RIGHT-OF-WAY IS CLEAR TO AWARD THE PROJECT, A NOTICE WILL BE SENT TO THE UTILITY COMPANIES INSTRUCTING THEM TO HAVE THEIR FACILITIES RELOCATED WITHIN 90 DAYS. ESTIMATED DATE RELOCATION COMPLETE = AWARD DATE + 100 DAYS.
37. ALL SAWCUT SHALL BE INCLUDED IN THE COST OF PAVEMENT REMOVAL.
38. CONCRETE THRUST BLOCKS SHALL BE PLACED AGAINST UNDISTURBED EARTH AND SHALL BE CLASS SI CONCRETE.
39. THE CONTRACTOR SHALL REMOVE EXISTING USGS GAGE STATION AND WIRE WEIGHT GAGE LOCATED AT THE NORTHEAST CORNER OF THE EXISTING BRIDGE. THIS WORK SHALL BE INCLUDED IN THE COST OF REMOVAL OF EXISTING STRUCTURES. CONTRACTOR SHALL COORDINATE WITH USGS A MINIMUM OF 30 DAYS PRIOR TO REMOVAL.
40. PREVIOUSLY PUGMILLED STOCKPILES OF "TYPE A" OLDER THAN 1 MONTH WILL NOT BE APPROVED OR USE UNTIL A MOISTURE CHECK IS RUN TO VERIFY MOISTURE CONTENT. MATERIAL SHIPPED TO PROJECTS WITHOUT BEING TESTED WILL NOT BE ACCEPTED.
41. EXCEPT FOR THE TOP 75 MM (3"), ALL AGGREGATE BASES AND SUBBASES 300 MM (12") IN THICKNESS SHALL BE CONSTRUCTED OF AGGREGATE GRADATION CA-2. IF THE SPECIFIED THICKNESS EXCEEDS 300 MM (12"), THE BASES OR SUBBASES SHALL BE CONSTRUCTED OF TOPSIZE 150 MM (6") BREAKER-RUN CRUSHED STONE WITH 15% TO 40% BY WEIGHT, PASSING THE 50 MM (2") SIZE SIEVE, EXCEPT FOR THE TOP 75 MM (3"). THE BREAKER-RUN CRUSHED STONE SHALL BE REASONABLY UNIFORMLY GRADED FROM COARSE TO FINE AND BE TAKEN FROM A QUARRY LEDGE CAPABLE OF PRODUCING CLASS "D" QUALITY AGGREGATE. THE TOP 75 MM (3") SHALL BE GRADATION CA-6 OR CA-10 REGARDLESS OF THICKNESS. THE WATER NECESSARY TO ACHIEVE COMPACTION IN ALL BUT THE TOP 75 MM (3") LAYER MAY BE ADDED AFTER THE SUBBASE OR BASE COURSE IS PLACED ON THE GRADE.
42. TEMPORARY IMPACT ATTENUATORS THAT HAVE BEEN FURNISHED AND PLACED COULD BE RELOCATED ON THE SAME PROJECT. THE ATTENUATORS RELOCATED, FROM ONE STAGE TO ANOTHER, FROM THE PROJECT TO AN OFF SITE LOCATION, OR FROM THE OFF SITE LOCATION BACK TO THE PROJECT, WILL BE PAID FOR AT CONTRACT UNIT PRICE EACH FOR IMPACT ATTENUATORS RELOCATE OF THE PARTICULAR TYPE SPECIFIED.
43. TEMPORARY CONCRETE BARRIER THAT HAVE BEEN FURNISHED AND PLACED COULD BE RELOCATED ON THE SAME PROJECT. THE TEMPORARY CONCRETE BARRIER RELOCATED, FROM ONE STAGE TO ANOTHER, FROM THE PROJECT TO AN OFF SITE LOCATION, OR FROM THE OFF SITE LOCATION BACK TO THE PROJECT, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR RELOCATE TEMPORARY CONCRETE BARRIER.
44. STAGE 1
    THE TEMPORARY CONCRETE BARRIER SHALL BE ANCHORED TO THE PAVEMENT WITH 6 ANCHORS PER SECTION AT THE FOLLOWING LOCATIONS: STA. 1261+20 TO 1269+35
45. THE CONTRACTOR SHALL CONTACT MR. KURT GLAZIER AT IDOT DISTRICT 2 (815) 284-5478 TWO (2) WEEKS PRIOR TO PLACEMENT OF FINAL STRIPING TO EVALUATE.
46. THE CONTRACTOR SHALL REMOVE ALL SIGNS WITHIN CONSTRUCTION LIMITS IN CONDITION FOR REUSE. THE RESIDENT ENGINEER WILL PERFORM SIGN INVENTORY FOR ALL SIGNS WITHIN THE PROJECT LIMITS AND NOTE ANY DAMAGED SIGNS PRIOR TO START OF WORK. THE RESIDENT ENGINEER WILL NOTIFY THE APPROPRIATE AGENCY OF ANY DAMAGED SIGNS IN ORDER TO PROVIDE NEW SIGNS. THE CONTRACTOR SHALL REMOVE ALL SIGNS WITHIN CONSTRUCTION LIMITS IN CONDITION OF REUSE AND REINSTALL THESE SIGNS AFTER COMPLETION OF CONSTRUCTION IN COORDINATION WITH THE DEPARTMENT OF TRANSPORTATION AND AS DIRECTED BY THE RESIDENT ENGINEER.

DISTRICT 2 STANDARDS

21.1	ENTRANCES, SIDE ROADS, AND MAILBOX RETURNS WITH 3' OR 10' HOT-MIX ASPHALT SHOULDERS
22.1	ENTRANCE AND SIDE ROADS WITH 2.4M(8') HOT-MIX ASPHALT SHOULDERS
23.4	DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARDRAIL
23.4A	HOT MIX ASPHALT SHOULDERS
37.4	DELINEATOR AND POST ORIENTATION
39.2	INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)
41.1	TYPICAL PAVEMENT MARKINGS
50.4	TYPICAL BENCHING DETAIL ON EXISTING EMBANKMENT
66.2	WITNESS MARKER & PERMANENT SURVEY MARKERS, TYPE II
75.2	ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS
90.4	TREE REPLACEMENT SCHEDULE
92.1	DETAILS OF PLANTING AND BRACING TREES
99.4	STOP LINE FOR TEMPORARY SIGNALS

IDOT HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
420401-08	BRIDGE APPROACH PAVEMENT CONNECTOR
515001-03	NAME PLATE FOR BRIDGES
542401-01	METAL END SECTION FOR PIPE CULVERT
601101-01	SHOULDER INLET WITH CURB
610001-05	CONCRETE HEADWALL FOR PIPE DRAIN
630001-09	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-09	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
666001-01	RIGHT OF WAY MARKERS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 4.5m(15') AWAY
701006-03	OFF-RD OPERATIONS, 2L, 2W, 4.5m(15') TO 600mm(24") FROM PAVEMENT EDGE
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >=45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701321-11	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS >= 45MPH
701901-01	TRAFFIC CONTROL DEVICES
704001-06	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS, & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
886001-01	DETECTOR LOOP INSTALLATIONS

FILE NAME = G:\ENGS\05-6790-14\ D2 Bridges Phase 2\IL82\C90\Civil\Sht\D2814d25-shtgeneralnotes.dgn

Wight

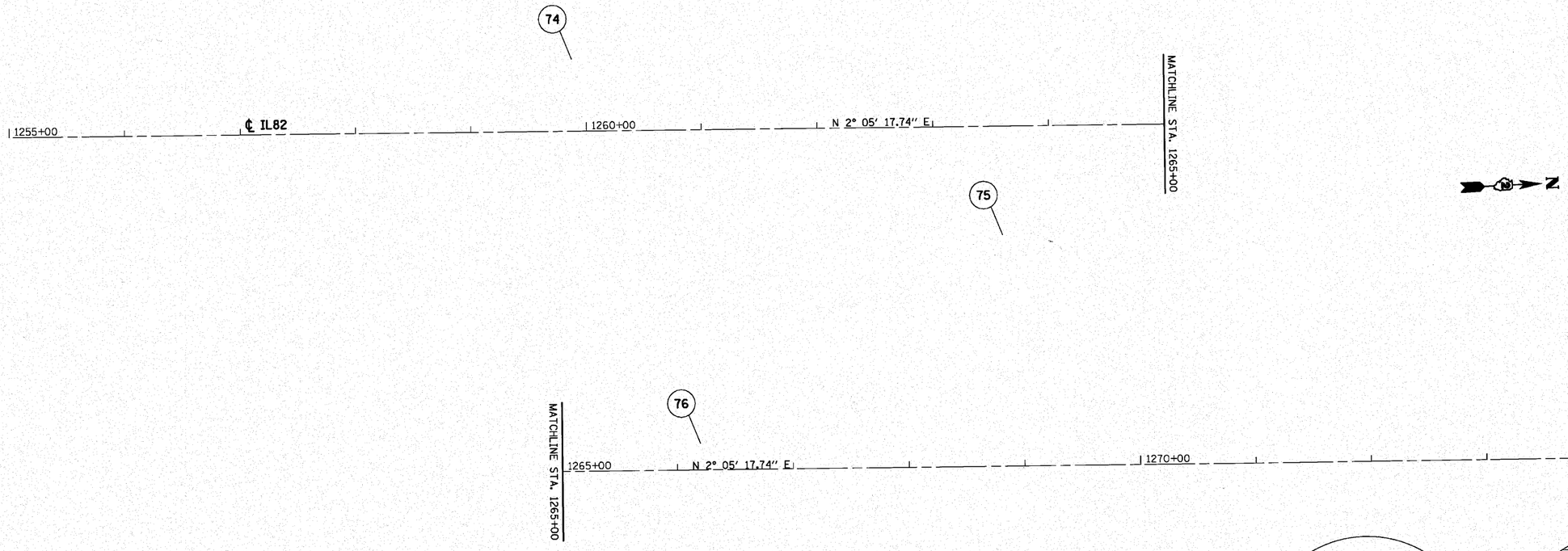
USER NAME = *USER*	DESIGNED - KAC	REVISED -	
	DRAWN - AAS	REVISED -	
PLOT SCALE = *SCALE*	CHECKED - KMB	REVISED -	
PLOT DATE = 12/28/2010	DATE - 08/27/2010	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND STANDARDS
IL 82 OVER GREEN RIVER

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	2
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		



CURVE POINT NUMBERS

CHAIN	CURVE	PI	CC	PC	PT
IL82	210	210	211	212	213

Chain IL82 contains:
CUR 210 220

Beginning chain IL82 description

Curve Data

Curve 210
P.I. Station 1237+16.85 N 1,753,500.7304 E 2,298,852.6879
Delta = 3° 41' 00.00" (RT)
Degree = 0° 30' 00.29"
Tangent = 368.4000'
Length = 736.5462'
Radius = 11,457.2825'
External = 5.9213'
Long Chord = 736.4194'
Mid. Ord. = 5.9182'
P.C. Station 1233+48.45 N 1,753,132.4732 E 2,298,862.9425
P.T. Station 1240+85.00 N 1,753,868.8858 E 2,298,866.1120
C.C. N 1,753,451.3940 E 2,310,315.7855

Course from PT 210 to 220 N 2° 05' 17.74" E Dist 4,677.7062'

Point 220 N 1,758,543.4854 E 2,299,036.5628 Sta 1287+62.70

Course from 220 to PC 230 N 2° 06' 56.28" E Dist 2,606.7891'

Ending chain IL82 description

REFERENCE TIES

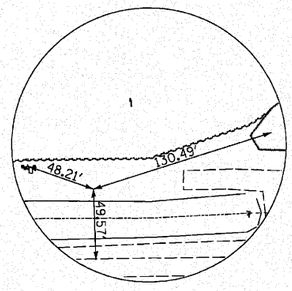
POINT	CHAIN	STATION	OFFSET	DESCRIPTION
512	IL82	1265+93.51	27.81' RT.	PK NAIL PP
513	IL82	1266+28.00	74.19' LT.	PK NAIL
514	IL82	1266+92.19	23.12' LT.	PK NAIL GUARDPOST
515	IL82	1259+42.36	78.99' LT.	PK NAIL PP
516	IL82	1259+88.72	12.77' LT.	PK NAIL EOP
517	IL82	1261+12.57	99.88' LT.	PK NAIL
518	IL82	1263+74.85	111.28' RT.	PK NAIL
519	IL82	1263+16.32	116.28' RT.	PK NAIL

BENCH MARKS

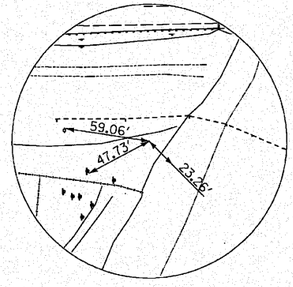
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
400	1756079.8840	2299031.3620	607.36	IL82	1263+00.55	84.57' RT.	PP
401	1756426.4830	2299030.0550	596.06	IL82	1266+46.87	70.64' RT.	PP
1445	1756353.3350	2298973.3080	597.22	IL82	1265+71.70	16.59' RT.	IDOT BM 45 TOP OF WINGWALL

HORIZONTAL CONTROL POINTS

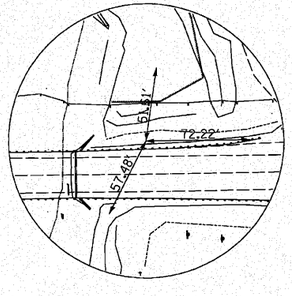
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
74	1755772.4950	2298873.1600	598.6920	IL82	1259+87.60	62.32' LT.	PIN GPS CONTROL POINT
75	1756138.0930	2299043.3710	606.5250	IL82	1263+59.15	94.45' RT.	PIN GPS CONTROL POINT
76	1756403.0230	2298935.2840	598.7530	IL82	1266+19.97	23.22' LT.	PIN GPS CONTROL POINT



HORIZONTAL CONTROL POINT #74



HORIZONTAL CONTROL POINT #75



HORIZONTAL CONTROL POINT #76

FILE NAME = G:\ENGV8i-6798-14A D2 Bridges Phase 2\IL82\CADD\Civil\Sht\D2564025-sht-ATR.dgn

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PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HORIZONTAL & VERTICAL CONTROL
IL 82 OVER GREEN RIVER

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	3
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

0011

	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	80% FED / 20% STATE
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	126	126
	20100500	TREE REMOVAL, ACRES	ACRE	0.10	0.10
	20200100	EARTH EXCAVATION	CU YD	2,801	2,801
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	20	20
	20300100	CHANNEL EXCAVATION	CU YD	3,827	3,827
	20700220	POROUS GRANULAR EMBANKMENT	CU YD	58	58
*	25000210	SEEDING, CLASS 2A	ACRE	1.50	1.50
*	25000310	SEEDING, CLASS 4	ACRE	0.50	0.50
:)*	25000750	MOWING	ACRE	2.00	2.00
*	25100115	MULCH, METHOD 2	ACRE	1.25	1.25
*	25100630	EROSION CONTROL BLANKET	SQ YD	3,804	3,804
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	800	800
	28000305	TEMPORARY DITCH CHECKS	FOOT	740	740
	28000400	PERIMETER EROSION BARRIER	FOOT	175	175
	28000500	INLET AND PIPE PROTECTION	EACH	4	4
	28100107	STONE RIPRAP, CLASS A4	SQ YD	48	48
	28100109	STONE RIPRAP, CLASS A5	SQ YD	1,340	1,340
	28200200	FILTER FABRIC	SQ YD	1,388	1,388
	35101100	AGGREGATE BASE COURSE, TYPE A 12"	SQ YD	2,028	2,028
	35101400	AGGREGATE BASE COURSE, TYPE B	TON	153	153
	40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	5	5
	40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	134	134
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	24	24
	40600990	TEMPORARY RAMP	SQ YD	204	204
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	471	471
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	163	163
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	207	207

*** SPECIALTY ITEMS**
:) NON PARTICIPATING 100% STATE

0011

	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	80% FED / 20% STATE
	42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	102	102
	44000100	PAVEMENT REMOVAL	SQ YD	171	171
	44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	1,844	1,844
	48101200	AGGREGATE SHOULDERS, TYPE B	TON	99	99
	48203023	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	SQ YD	1,889	1,889
	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
	50200100	STRUCTURE EXCAVATION	CU YD	392	392
	50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	37	37
	50300100	FLOOR DRAINS	EACH	24	24
	50300225	CONCRETE STRUCTURES	CU YD	273.3	273.3
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	446	446
	50300260	BRIDGE DECK GROOVING	SQ YD	1,086	1,086
	50300280	CONCRETE ENCASEMENT	CU YD	15.4	15.4
	50300300	PROTECTIVE COAT	SQ YD	1,330	1,330
	50400905	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 42 IN.	FOOT	1,157.5	1,157.5
	50800105	REINFORCEMENT BARS	POUND	6,470	6,470
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	128920	128920
	50800515	BAR SPLICERS	EACH	1,127	1,127
	51201800	FURNISHING STEEL PILES HP14X73	FOOT	1,242	1,242
	51202305	DRIVING PILES	FOOT	1,242	1,242
	51203800	TEST PILE STEEL HP14X73	EACH	4	4
	51204650	PILE SHOES	EACH	28	28
	51500100	NAME PLATES	EACH	2	2
	54002080	EXPANSION BOLTS 3/4 INCH X 18 INCH	EACH	40	40
	54003000	CONCRETE BOX CULVERTS	CU YD	47.6	47.6
	542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	92	92
	542D1063	PIPE CULVERTS, CLASS D TYPE 2 18"	FOOT	49	49

*** SPECIALTY ITEMS**
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FILE NAME = G:\ENG\86-6798-144 D2 Bridges Phase 2\ILB2\CADD\civil\Sht\D264025-sht-SOD.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 82 OVER GREEN RIVER

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	4
		CONTRACT NO. 64025		
		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

0011

	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	80% FED / 20% STATE
	54213447	END SECTIONS 12"	EACH	2	2
	54213453	END SECTIONS 18"	EACH	6	6
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	141	141
	60100945	PIPE DRAINS 12"	FOOT	27	27
	60900515	CONCRETE THRUST BLOCKS	EACH	2	2
	61000115	TYPE E INLET BOX, STANDARD 610001	EACH	2	2
*	63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	250.0	250.0
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1
*	63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	5	5
	63200310	GUARDRAIL REMOVAL	FOOT	1,569	1,569
	63500105	DELINEATORS	EACH	8	8
	66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	5	5
	66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2	2
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7	7
	67100100	MOBILIZATION	L SUM	1	1
	70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
	70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	15	15
	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	353	353
	70300220	TEMPORARY PAVEMENT MARKING-LINE 4"	FOOT	4,920	4,920
	70300280	TEMPORARY PAVEMENT MARKING-LINE 24"	FOOT	25	25
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,190	1,190
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,100	1,100

*** SPECIALTY ITEMS**
:) NON PARTICIPATING 100% STATE

0011

	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	80% FED / 20% STATE
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,075	1,075
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	4,992	4,992
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	12	12
*	78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	3	3
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	20	20
*	78200520	BARRIER WALL MARKERS, TYPE B	EACH	6	6
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	6	6
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	475	475
	Z0001000	AGGREGATE FOR TEMPORARY CROSSING	TON	40	40
	Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	22	22
	Z0004552	APPROACH SLAB REMOVAL	SQ YD	156	156
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
	Z0030250	IMPACT ATTENUATORS,TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2
	Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2
	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	168	168
	Z0062456	TEMPORARY PAVEMENT	SQ YD	489	489
	Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	2,020	2,020
*	A2001714	TREE, ACER SACCHARUM (SUGAR MAPLE), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	6	6
*	A2006514	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	11	11
	X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	198	198
	X4400110	TEMPORARY PAVEMENT REMOVAL	SQ YD	489	489
	X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1	1
	X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1	1
	X0327105	USGS GAGE EQUIPMENT PAD	EACH	1	1
	X0327106	USGS GAGE EQUIPMENT CABINET, SPECIAL	EACH	1	1

*** SPECIALTY ITEMS**
:) NON PARTICIPATING 100% STATE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 82 OVER GREEN RIVER

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	5
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

UNIT	LOCATION		
	IL 82		
15	Sta 1264+30		40.6' LT
48	Sta 1266+72		46.1' RT
24	Sta 1267+73		52.7' RT
39	Sta 1268+16		52.0' RT
126	**TOTAL**		

20100500 TREE REMOVAL, ACRES

ACRE	LOCATION			
	IL 82			
0.1	Sta 1268+31	-	1271+25	
0.1	**TOTAL**			

20201200 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL

CU YD	LOCATION
	IL 82
20	Sta
20	**TOTAL**

20300100 CHANNEL EXCAVATION

CU YD	LOCATION	
	IL 82	
2,346	Sta	North of Green River Centerline
1,481	Sta	South of Green River Centerline
3,827	**TOTAL**	

Note: Includes Class A5 Rip Rap Excavation

20700220 POROUS GRANULAR EMBANKMENT

CU YD	LOCATION			
	IL 82			
12	Sta 1263+66.63	-	1263+73.53	
18	Sta 1263+73.53	-	1263+83.88	
19	Sta 1266+25.89	-	1266+36.24	
9	Sta 1266+36.24	-	1266+43.13	
58	**TOTAL**			

25000210 SEEDING, CLASS 2A

ACRE	LOCATION			
	IL 82			
0.27	Sta 1258+10	-	1263+88	NB DITCH
0.58	Sta 1265+34		1271+25	NB DITCH
0.26	Sta 1258+10		1264+05	SB DITCH
0.33	Sta 1266+21	-	1271+25	SB DITCH
1.44	(Degree of Accuracy 0.5)			
1.50	**TOTAL**			

25000310 SEEDING, CLASS 4

ACRE	LOCATION			
	IL 82			
0.10	Sta 1258+10	-	1263+88	NB DITCH
0.11	Sta 1266+50		1271+25	NB DITCH
0.06	Sta 1258+10		1264+05	SB DITCH
0.09	Sta 1266+21	-	1271+25	SB DITCH
0.36	(Degree of Accuracy 0.5)			
0.50	**TOTAL**			

25100115 MULCH, METHOD 2

ACRE	LOCATION			
	IL 82			
0.25	Sta 1258+10	-	1263+50	NB DITCH
0.36	Sta 1268+00		1271+25	NB DITCH
0.21	Sta 1258+10		1262+50	SB DITCH
0.20	Sta 1267+00	-	1271+25	SB DITCH
1.02	(Degree of Accuracy 0.25)			
1.25	**TOTAL**			

25100630 EROSION CONTROL BLANKET

SQ YD	LOCATION			
	IL 82			
550	Sta 1260+30	-	1263+88	NB DITCH
1,618	Sta 1265+34		1271+25	NB DITCH
519	Sta 1261+25		1264+05	SB DITCH
1,117	Sta 1266+21	-	1271+25	SB DITCH
3,804	**TOTAL**			

28000305 TEMPORARY DITCH CHECKS

FOOT	LOCATION	
	IL 82	
20	Sta	1258+37 LT
20	Sta	1259+00 LT
20	Sta	1259+69 LT
20	Sta	1260+38 LT
20	Sta	1261+64 LT
20	Sta	1262+24 LT
20	Sta	1262+80 LT
20	Sta	1263+28 LT
20	Sta	1263+88 LT
20	Sta	1258+55 RT
20	Sta	1259+16 RT
20	Sta	1259+76 RT
20	Sta	1260+95 RT
20	Sta	1261+44 RT
20	Sta	1262+01 RT
20	Sta	1262+50 RT
20	Sta	1263+00 RT
20	Sta	1263+49 RT
20	Sta	1263+99 RT
20	Sta	1266+65 RT
20	Sta	1267+21 RT
20	Sta	1267+81 RT
20	Sta	1268+33 RT
20	Sta	1269+25 RT
20	Sta	1269+88 RT
20	Sta	1270+43 RT
20	Sta	1270+95 RT
20	Sta	1271+56 RT
20	Sta	1272+02 RT
20	Sta	1266+22 LT
20	Sta	1266+68 LT
20	Sta	1267+82 LT
20	Sta	1268+33 LT
20	Sta	1268+86 LT
20	Sta	1269+98 LT
20	Sta	1270+49 LT
20	Sta	1271+05 LT
740	**TOTAL**	

28000400 PERIMETER EROSION BARRIER

FOOT	LOCATION			
	IL 82			
129	Sta 1265+34	-	1266+50	NB DITCH
46	Sta 1268+00	-	1268+46	NB DITCH
175	**TOTAL**			

28000500 INLET AND PIPE PROTECTION

EACH	LOCATION	
	IL 82	
1	Sta	1260+00 RT
1	Sta	1260+91 LT
1	Sta	1267+10 LT
1	Sta	1269+44 LT
4	**TOTAL**	

28100107 STONE RIPRAP, CLASS A4

SQ YD	LOCATION				
	IL 82				
5	Sta 1266+32	-	1266+37	34.3' RT	
5	Sta 1266+42	-	1266+47	29.4' LT	
38	Sta 1266+47	-	1268+76	70' RT	
48	**TOTAL**				

28100109 STONE RIPRAP, CLASS A5

SQ YD	LOCATION	
	IL 82	
1,340	Sta	1265+04.88
1,340	**TOTAL**	

28200200 FILTER FABRIC

SQ YD	LOCATION				
	IL 82				
5	Sta 1266+32	-	1266+37	34.3' RT	
5	Sta 1266+42	-	1266+47	29.4' LT	
38	Sta 1266+47	-	1268+76	70' RT	
1,340	Sta 1265+04.88			BRIDGE OVER GREEN RIVER	
1,388	**TOTAL**				

35101100 AGGREGATE BASE COURSE, TYPE A 12"

SQ YD	LOCATION			
	IL 82			
126	Sta 1258+24.27	-	1259+50	RT
183	Sta 1259+50	-	1261+32.76	RT
131	Sta 1261+32.76	-	1262+05.26	RT GUARDRAIL TERMINAL
221	Sta 1262+05.26	-	1263+71.21	RT
121	Sta 1266+27.77	-	1267+18.79	RT
131	Sta 1267+18.79	-	1267+91.29	RT GUARDRAIL TERMINAL
334	Sta 1267+91.29	-	1271+25	RT
114	Sta 1259+50	-	1262+07	LT
139	Sta 1262+07	-	1262+90.84	LT GUARDRAIL TERMINAL
122	Sta 1262+90.84	-	1263+81.99	LT
54	Sta 1266+38.53	-	1266+79.36	LT
391	Sta 1266+79.36	-	1269+31.97	LT GUARDRAIL TERMINALS
86	Sta 1269+31.97	-	1271+25	LT
2,028	**TOTAL**			

FILE NAME = G:\ENG\08-6798-14A D2 Bridges Phase 2\IL82\CADD\civil\Sht\0284d25-sht-sch.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
IL 82 OVER GREEN RIVER

SCALE: | SHEET NO. 1 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	6
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

35101400 AGGREGATE BASE COURSE, TYPE B

TON	LOCATION				
	IL 82				
35	Sta	1260+20.8	FE	Field Entrance	RT
55	Sta	1261+13.3	FE	Field Entrance	LT
63	Sta	1267+42.55	FE	Field Entrance	LT
153	**TOTAL**				

40600400 MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS

TON	LOCATION	
	IL 82	
5	AS NEEDED & DIRECTED BY THE RESIDENT ENGINEER	
5	**TOTAL**	

44000100 PAVEMENT REMOVAL

SQ YD	LOCATION			
	IL 82			
41	Sta	1263+66.63	-	1263+81.39
130	Sta	1265+96.47	-	1266+43.13
171	**TOTAL**			

48101200 AGGREGATE SHOULDERS, TYPE B

TON	LOCATION				
	IL 82				
34	Sta	1259+50	-	1260+84.29	LT
16	Sta	1261+42.29	-	1262+07	LT
49	Sta	1269+31.97	-	1271+25	LT
99	**TOTAL**				

50100100 REMOVAL OF EXISTING STRUCTURES

EACH	LOCATION		
	IL 82		
1	Sta	1264+90.39	EXISTING BRIDGE OVER GREEN RIVER
1	**TOTAL**		

50200100 STRUCTURE EXCAVATION

CU YD	LOCATION	
	IL 82	
392	Sta	1265+04.88
392	**TOTAL**	

50200450 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES

CU YD	LOCATION			
	IL 82			
18	Sta	1263+73.53	-	1263+83.88
19	Sta	1266+25.89	-	1266+36.24
37	**TOTAL**			

50300100 FLOOR DRAINS

EACH	LOCATION		
	IL 82		
24	Sta	1265+04.88	BRIDGE OVER GREEN RIVER
24	**TOTAL**		

50300225 CONCRETE STRUCTURES

CU YD	LOCATION		
	IL 82		
273.3	Sta	1265+04.88	BRIDGE OVER GREEN RIVER
273.3	**TOTAL**		

50300255 CONCRETE SUPERSTRUCTURE

CU YD	LOCATION		
	IL 82		
446	Sta	1265+04.88	BRIDGE OVER GREEN RIVER
446	**TOTAL**		

50300260 BRIDGE DECK GROOVING

SQ YD	LOCATION		
	IL 82		
1,086	Sta	1265+04.88	BRIDGE OVER GREEN RIVER
1,086	**TOTAL**		

50300280 CONCRETE ENCASEMENT

CU YD	LOCATION		
	IL 82		
15.4	Sta	1265+04.88	BRIDGE OVER GREEN RIVER
15.4	**TOTAL**		

50300300 PROTECTIVE COAT

SQ YD	LOCATION		
	IL 82		
1,330	Sta	1265+04.88	BRIDGE OVER GREEN RIVER
1,330	**TOTAL**		

50400905 FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 42 IN.

FOOT	LOCATION		
	IL 82		
1,157.5	Sta	1265+04.88	BRIDGE OVER GREEN RIVER
1,157.5	**TOTAL**		

50800105 REINFORCEMENT BARS

POUND	LOCATION	
	IL 82	
6,470	Sta	BOX CULVERT
6,470	**TOTAL**	

50800205 REINFORCEMENT BARS, EPOXY COATED

POUND	LOCATION		
	IL 82		
128920	Sta	1265+04.88	BRIDGE OVER GREEN RIVER
128920	**TOTAL**		

50800515 BAR SPLICERS

EACH	LOCATION		
	IL 82		
1,127	Sta	1265+04.88	BRIDGE OVER GREEN RIVER
1,127	**TOTAL**		

51201800 FURNISHING STEEL PILES HP14X73

FOOT	LOCATION		
	IL 82		
1,242	Sta	1265+04.88	BRIDGE OVER GREEN RIVER
1,242	**TOTAL**		

51202305 DRIVING PILES

FOOT	LOCATION		
	IL 82		
1,242	Sta	1265+04.88	BRIDGE OVER GREEN RIVER
1,242	**TOTAL**		

51203800 TEST PILE STEEL HP14X73

EACH	LOCATION		
	IL 82		
4	Sta	1265+04.88	BRIDGE OVER GREEN RIVER
4	**TOTAL**		

51204650 PILE SHOES

EACH	LOCATION		
	IL 82		
28	Sta	1265+04.88	BRIDGE OVER GREEN RIVER
28	**TOTAL**		

51500100 NAME PLATES

EACH	LOCATION	
	IL 82	
1	Sta 1265+04.88	BRIDGE OVER GREEN RIVER
1	Sta 1269+05.61	BOX CULVERT
2	**TOTAL**	

54002080 EXPANSION BOLTS 3/4 INCH X 18 INCH

EACH	LOCATION	
	IL 82	
40	Sta	BOX CULVERT
40	**TOTAL**	

54003000 CONCRETE BOX CULVERTS

CU YD	LOCATION	
	IL 82	
47.6	Sta	
47.6	**TOTAL**	

542D0223 PIPE CULVERTS, CLASS D, TYPE 1 18"

FOOT	LOCATION		
	IL 82		
46	Sta	1260+20	RT FE
46	Sta	1261+14	LT FE
92	**TOTAL**		

542D1063 PIPE CULVERTS, CLASS D, TYPE 2 18"

FOOT	LOCATION		
	IL 82		
49	Sta	1267+34.0	LT FE
49	**TOTAL**		

FILE NAME = G:\ENGD\96-6798-144 D2 Bridges Phase 2\IL82\CAD\Civil\Sht\D2564d25-sht-esh2.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
IL 82 OVER GREEN RIVER

SCALE: | SHEET NO. 2 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	7
		CONTRACT NO. 64D25		
	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

54213447 END SECTIONS 12"

EACH	LOCATION		
	IL 82		
1	Sta	1266+34	37.22' RT
1	Sta	1266+44	29.97' LT
2	**TOTAL**		

54213453 END SECTIONS 18"

EACH	LOCATION		
	IL 82		
1	Sta	1260+00	40.6' RT
1	Sta	1260+45.88	37.28' RT
1	Sta	1260+90.50	40' LT
1	Sta	1261+36.50	40' LT
1	Sta	1267+09.80	48.8' LT
1	Sta	1267+55.21	55.9' LT
6	**TOTAL**		

59100100 GEOCOMPOSITE WALL DRAIN

SQ YD	LOCATION		
	IL 82		
141	Sta	1265+04.88	BRIDGE OVER GREEN RIVER
141	**TOTAL**		

60100945 PIPE DRAINS 12"

FOOT	LOCATION	
	IL 82	
17	Sta	1266+34
10	Sta	1266+44
27	**TOTAL**	

60900515 CONCRETE THRUST BLOCKS

EACH	LOCATION	
	IL 82	
1	Sta	1266+34
1	Sta	1266+44
2	**TOTAL**	

61000115 TYPE E INLET BOX, STANDARD 610001

EACH	LOCATION		
	IL 82		
1	Sta	1266+34	20'RT
1	Sta	1266+44	20' LT
2	**TOTAL**		

63000001 STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS

FOOT	LOCATION			
	IL 82			
50	Sta	1263+04	- 1263+53.8	LT
125	Sta	1262+18	- 1263+43.1	RT
50.0	Sta	1266+55.9	- 1267+06	RT
25.0	Sta	1268+25.4	- 1268+50.4	LT
250.0	**TOTAL**			

63100085 TRAFFIC BARRIER TERMINAL, TYPE 6

EACH	LOCATION		
	IL 82		
1	Sta	1263+89	20' RT
1	Sta	1263+99.5	20'LT
1	Sta	1266+10	20'RT
1	Sta	1266+21	20'LT
4	**TOTAL**		

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

EACH	LOCATION		
	IL 82		
1	Sta	1267+75	22' LT
1	**TOTAL**		

63100169 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED

EACH	LOCATION		
	IL 82		
1	Sta	1261+61	25.1' RT
1	Sta	1262+53.8	25.6' LT
1	Sta	1267+16.5	25' LT
1	Sta	1267+56	25.3' RT
1	Sta	1269+00	25' LT
5	**TOTAL**		

63200310 GUARDRAIL REMOVAL

FOOT	LOCATION			
	IL 82			
783	Sta	1262+17.17	- 1269+99.32	RT
421	Sta	1262+79.41	- 1266+99.86	LT
365	Sta	1267+53.41	- 1271+17.73	LT
1,569	**TOTAL**			

63500105 DELINEATORS

EACH	LOCATION		
	IL 82		
1	Sta	1261+68.1	RT
1	Sta	1262+53.8	LT
1	Sta	1267+16.5	LT
1	Sta	1267+55.9	RT
1	Sta	1267+75.4	LT
1	Sta	1268+66.0	RT
1	Sta	1269+00.4	LT
1	Sta	1269+42.0	LT
8	**TOTAL**		

66600105 FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

EACH	LOCATION		
	IL 82		
1	Sta	1270+50	70' RT
1	Sta	1270+00	90' RT
1	Sta	1268+75	110' RT
1	Sta	1268+25	110' RT
1	Sta	1267+40	70 RT
5	**TOTAL**		

66700305 PERMANENT SURVEY MARKERS, TYPE II

EACH	LOCATION	
	IL 82	
2	Sta	LOCATION TO BE DETERMINED BY DIST. 2 SURVEYOR
2	**TOTAL**	

70106500 TEMPORARY BRIDGE TRAFFIC SIGNALS

EACH	LOCATION
	IL 82
1	Sta
1	**TOTAL**

70300100 SHORT TERM PAVEMENT MARKING

FOOT	LOCATION		
	IL 82		
	Sta	1259+50	- 1271+25
117.5		Milled Surface	
117.5		Binder Course	
117.5		Surface Course	
353	**TOTAL**		

70300220 TEMPORARY PAVEMENT MARKING-LINE 4"

FOOT	LOCATION			MOT STAGE
	IL 82			
1,345	Sta	1258+26.0	- 1271+69.0	STAGE 1 RT
1,039	Sta	1260+08.0	- 1270+47.0	STAGE 1 LT
2,384	Total - Stage 1			
FOOT	LOCATION			MOT STAGE
1,387	Sta	1258+40.0	- 1272+27.0	STAGE 2 LT
1,149	Sta	1259+40.0	- 1270+89.0	STAGE 2 RT
2,536	Total - Stage 2			
4,920	**TOTAL**			

70300280 TEMPORARY PAVEMENT MARKING-LINE 24"

FOOT	LOCATION			MOT STAGE
	IL 82			
13	Sta	1257+75.0	-	STAGE 1 RT
12	Sta	1272+37.0	- 1258+15.0	STAGE 1 RT
25	**TOTAL**			

70301000 WORK ZONE PAVEMENT MARKING REMOVAL

SQ FT	LOCATION			
	IL 82			
	Stage I			
98	Sta	1258+26	- 1261+20	RT
78	Sta	1269+35	- 1271+69	RT
38	Sta	1260+08	- 1261+20	LT
38	Sta	1269+35	- 1270+47	LT
	Stage II			
26	Sta	1257+75	Stop bar	RT
383	Sta	1259+40	- 1270+89	RT
463	Sta	1258+40	- 1272+27	LT
26	Sta	1272+37	Stop bar	LT
40	Short Term Pavement Marking Surface Course Removal Only			
1,190	**TOTAL**			

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
IL 82 OVER GREEN RIVER

SCALE: | SHEET NO. 3 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	8
		CONTRACT NO. 64D25		
	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

70400100 TEMPORARY CONCRETE BARRIER

FOOT	LOCATION			
	IL 82			
1,065	Sta 1259+93.6	-	1270+58.9	Stage I
25	Sta 1270+46.6	-	1270+71.6	Stage II
1,090	(12.5' Segments)			
1,100	**Total**			

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

FOOT	LOCATION			
	IL 82			
1,065	Sta 1259+81	-	1270+46.6	Stage II
	(12.5' Segments)			
1,075	**TOTAL**			

78001110 PAINT PAVEMENT MARKING - LINE 4"

FOOT	LOCATION			
	IL 82			
1,175	Sta 1259+50.0	-	1271+25	RT
1,175	Sta 1259+50.0	-	1271+25	LT
2,350	White Total			
1,175	Sta 1259+50.0	-	1271+25	CENTER LINE
175	Sta 1257+75.0		1259+50.0	CENTER LINE
112	Sta 1271+25.0		1272+37.0	CENTER LINE
146	Yellow Skip Dash Total (10' line, 30' skip)			
2,496	Sub-Total			
4,992	**TOTAL** (2 Applications)			

78100100 RAISED REFLECTIVE PAVEMENT MARKER

EACH	LOCATION		
	IL 82		
6	Sta 1259+50	-	1264+09
6	Sta 1266+33	-	1271+25
12	**TOTAL**		

78100105 RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)

EACH	LOCATION		
	IL 82		
3	Sta 1264+09	-	1266+33
3	**TOTAL**		

78200410 GUARDRAIL MARKERS, TYPE A

EACH	LOCATION			
	IL 82			
4	Sta 1263+04	-	1263+99.5	LT
4	Sta 1262+18.1	-	1263+88.8	RT
4	Sta 1266+10.3	-	1267+06	RT
4	Sta 1268+25.4	-	1268+50.4	LT
4	Sta 1266+21.0	-	1266+66.6	LT
20	**TOTAL**			

78200520 BARRIER WALL MARKERS, TYPE B

EACH	LOCATION			
	IL 82			
3	Sta 1263+96.99	-	1266+23.49	SOUTH BOUND
3	Sta 1263+86.27	-	1266+12.77	NORTH BOUND
6	**TOTAL**			

78201000 TERMINAL MARKER - DIRECT APPLIED

EACH	LOCATION		
	IL 82		
1	Sta 1261+68.1		RT
1	Sta 1262+53.8		LT
1	Sta 1267+16.5		LT
1	Sta 1267+55.9		RT
1	Sta 1267+75.4		LT
1	Sta 1269+00.0		LT
6	**TOTAL**		

78300100 PAVEMENT MARKING REMOVAL

SQ FT	LOCATION			
	IL 82			
122	Sta 1257+75.0	-	1272+37.0	CENTERLINE
353	Sta 1259+98.0	-	1270+57.0	
475	**TOTAL**			

Z0001000 AGGREGATE FOR TEMPORARY CROSSING

TON	LOCATION
	IL 82
40	Sta. AS NEEDED & DIRECTED BY THE RESIDENT ENGINEER
40	**TOTAL**

Z0001900 ASBESTOS BEARING PAD REMOVAL

EACH	LOCATION	
	IL 82	
22	Sta 1265+04.88	BRIDGE OVER GREEN RIVER
22	**TOTAL**	

Z0004552 APPROACH SLAB REMOVAL

SQ YD	LOCATION		
78	Sta 1263+81.39	-	1264+09.39
78	Sta 1265+68.47	-	1265+96.47
156	**TOTAL**		

Z0030250 IMPACT ATTENUATORS,TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

EACH	LOCATION
	IL 82
2	Stage 1
2	**TOTAL**

Z0030350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3

EACH	LOCATION
	IL 82
2	Relocated from Stage 1
2	**TOTAL**

Z0046304 PIPE UNDERDRAINS FOR STRUCTURES 4"

FOOT	LOCATION	
	IL 82	
168	Sta 1265+04.88	BRIDGE OVER GREEN RIVER
168	**TOTAL**	

Z0062456 TEMPORARY PAVEMENT

SQ YD	LOCATION			
223	Sta 1259+98	-	1264+09	Pre-Stage
266	Sta 1265+70	-	1270+57	Pre-Stage
489	**TOTAL**			

Z0073002 TEMPORARY SOIL RETENTION SYSTEM

SQ FT	LOCATION	
	IL 82	
2,020	Sta 1265+04.88	BRIDGE OVER GREEN RIVER
2,020	**TOTAL**	

A2001714 TREE, ACER SACCHARUM (SUGAR MAPLE), 1-3/4" CALIPER, BALLED AND BURLAPPED

EACH	LOCATION	
	IL 82	
6	Sta LOCATION TO BE SELECTED IN FIELD BY IDOT LANDSCAPE ARCHITECT	
6	**TOTAL**	

A2006514 TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED

EACH	LOCATION	
	IL 82	
11	Sta LOCATION TO BE SELECTED IN FIELD BY IDOT LANDSCAPE ARCHITECT	
11	**TOTAL**	

X2070304 POROUS GRANULAR EMBANKMENT, SPECIAL

CU YD	LOCATION	
	IL 82	
198	Sta 1265+04.88	
198	**TOTAL**	

X4400110 TEMPORARY PAVEMENT REMOVAL

SQ YD	LOCATION			
223	Sta 1259+98	-	1264+09	
266	Sta 1265+70	-	1270+57	
489	**TOTAL**			

X5020501 UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1

EACH	LOCATION	
	IL 82	
1	Sta 1265+04.88	BRIDGE OVER GREEN RIVER
1	**TOTAL**	

X5020502 UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2

EACH	LOCATION	
	IL 82	
1	Sta 1265+04.88	BRIDGE OVER GREEN RIVER
1	**TOTAL**	

USGS GAGE EQUIPMENT PAD

EACH	LOCATION
	IL 82
1	Sta 1265+86.00
1	**TOTAL**

USGS GAGE EQUIPMENT CABINET, SPECIAL

EACH	LOCATION
	IL 82
1	Sta 1265+86.00
1	**TOTAL**

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
IL 82 OVER GREEN RIVER

SCALE: | SHEET NO. 4 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	9
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

EARTHWORK SCHEDULE

Location	Remarks	Earth Excavation (CUT)	Earth Excavation Adj. Shrink 25%	Embankment (FILL)	Earthwork Balance Waste (+) Shortage (-)
		Cu Yd	Cu Yd	Cu Yd	Cu Yd
IL 82 Over Green River					
Sta 1258+10.0 - 1264+00.0	Roadway	1107.8	830.85	176.2	654.7
Sta 1264+00.0 - 1266+00.0	Bridge	0.0	0.00	0.0	0.0
Sta 1266+00.0 - 1271+25.0	Roadway	1489.5	1117.13	1153.0	-35.9
Sta 1259+98.0 - 1264+09.0	Temp. Pavement	92.8	69.60	12.8	56.9
Sta 1265+70.0 - 1270+57.0	Temp. Pavement	110.6	82.95	14.9	68.1
	TOTAL	**2,801.0**	**2,100.5**	**1,356.9**	**743.7**

HMA SCHEDULE

Location	Length	Proposed Surface		44000158 Hot-Mix Asphalt Surface Removal, 2 1/4"	40600982 Hot-Mix Asphalt Surface Removal - Butt Joint	40600625 Leveling Binder (Machine Method) N50 *	40603080 Hot Mix Asphalt Binder Course, IL-19.0, N50	40603310 Hot Mix Asphalt Surface Course, "Mix C", N50	40603335 Hot Mix Asphalt Surface Course, "Mix D", N50	42001430 Bridge Approach Pavement Connector (Flexible)	48203023 Hot Mix Asphalt Shoulders, 6 1/2"	Z0062456 Temporary Pavement	40600990 Temporary Ramp
		Width	Sq Yd	Sq Yd	Sq Yd	Ton	Ton	Ton	Ton	Sq Yd	Sq Yd	Sq Yd	Sq Yd
IL 82 - Mainline													
Sta 1259+50.0 - 1263+66.6	417	24.0	1111.0			62.2	99.0		96.1				
Sta 1263+66.6 - 1263+76.6	10	46.0	51.1							51.1			
Sta 1266+33.1 - 1266+43.1	10	46.0	51.1							51.1			
Sta 1266+43.1 - 1268+50.0	207	24.0	551.7			30.9	322.0		47.7				
Sta 1268+50.0 1271+25.0	275	24.0	733.3			41.1	50.0		63.4				
Hot Mix Asphalt Shoulders - RT													
Sta 1258+24.3 - 1261+32.8	308	8.0	274.2					23.7			274		
Sta 1261+32.8 - 1262+05.3			123.0					10.6			123		
Sta 1262+05.3 - 1263+66.6	161	11.0	197.2					17.1			197		
Sta 1266+43.1 - 1267+18.8	76	11.0	92.5					8.0			92		
Sta 1267+18.8 - 1267+91.3			122.0					10.6			122		
Sta 1267+91.3 - 1271+25.0	334	8.0	296.6					25.7			297		
Hot Mix Asphalt Shoulders - LT													
Sta 1259+50.0 - 1262+07.1	257	3.0	85.7					7.4			86		
Sta 1262+07.1 - 1262+90.8			130.0					11.2			130		
Sta 1262+90.8 - 1263+66.6	76	11.0	92.7					8.0			93		
Sta 1266+43.1 - 1266+79.4	36	11.0	44.3					3.8			44		
Sta 1266+79.4 - 1269+32.0			367.0					31.8			367		
Sta 1269+32.0 - 1271+25.0	193	3.0	64.3					5.6			64		
Temporary Pavement													
Sta 1259+98.0 - 1264+09.0	411		223.0									223	
Sta 1265+70.0 - 1270+57.0	487		266.0									266	
Hot Mix Asphalt Removal													
Sta 1259+50.0 - 1263+66.6	417	24.0	1111.0	1111.0									
Sta 1268+50.0 - 1271+25.0	275	24.0	733.3	733.3									
Temporary Ramp													
Sta 1261+20.0 Stage II		23.0	51.1										51.1
Sta 1269+35.0 Stage II		21.0	46.7										46.7
Sta 1259+50.0 Stage III		24.0	53.3										53.3
Sta 1271+25.0 Stage III		24.0	53.3										53.3
Hot-Mix Asphalt Surface Removal - Butt Joint													
Sta 1259+50.0 - 1259+54.5	4.50	24.0	12.0		12.0								
Sta 1271+20.5 - 1271+25.0	4.50	24.0	12.0		12.0								
TOTAL				**1844**	**24**	**134**	**471**	**163**	**207**	**102**	**1889**	**489**	**204**

* 1" Thickness calculated across entire area

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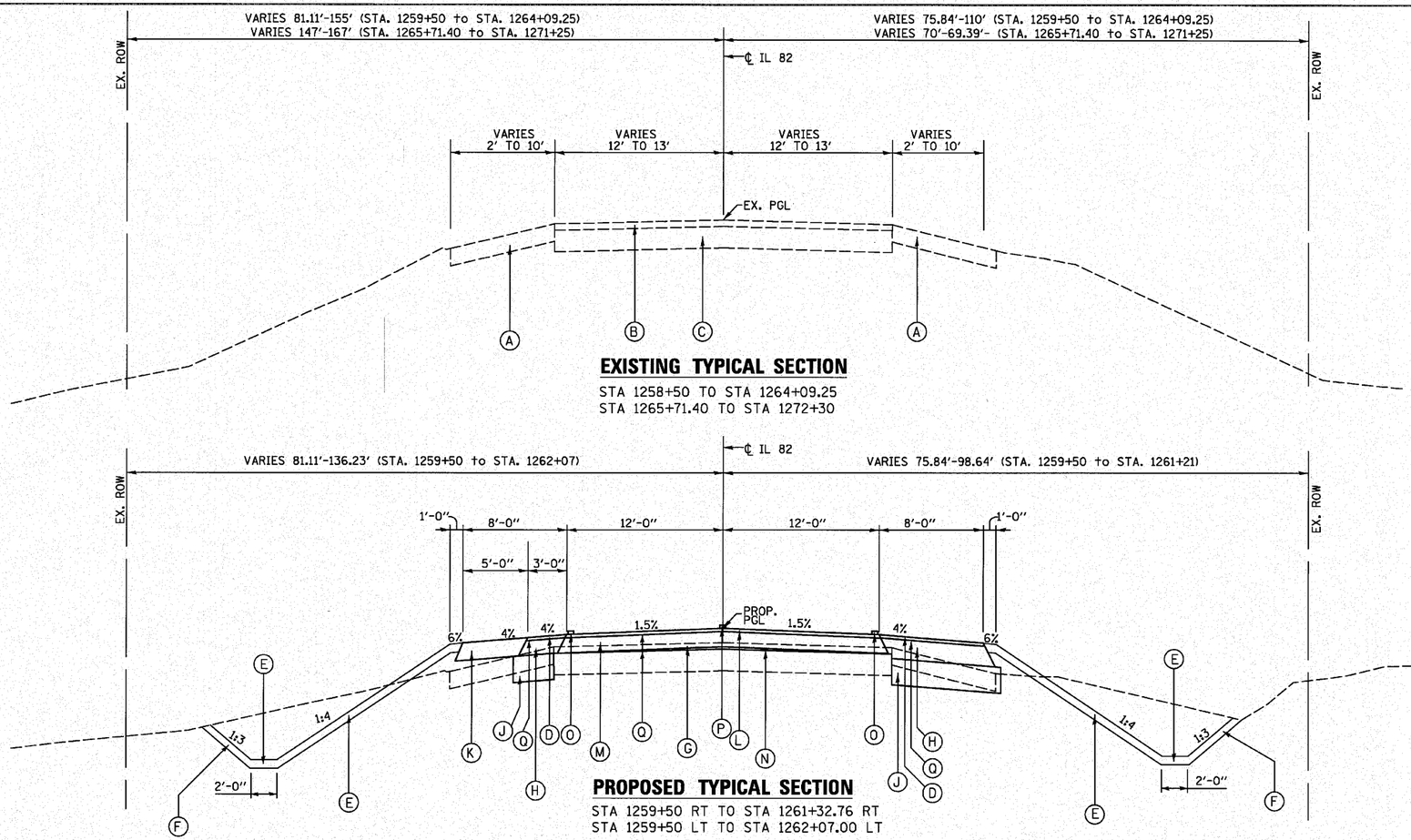
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
IL 82 OVER GREEN RIVER

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	10
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		

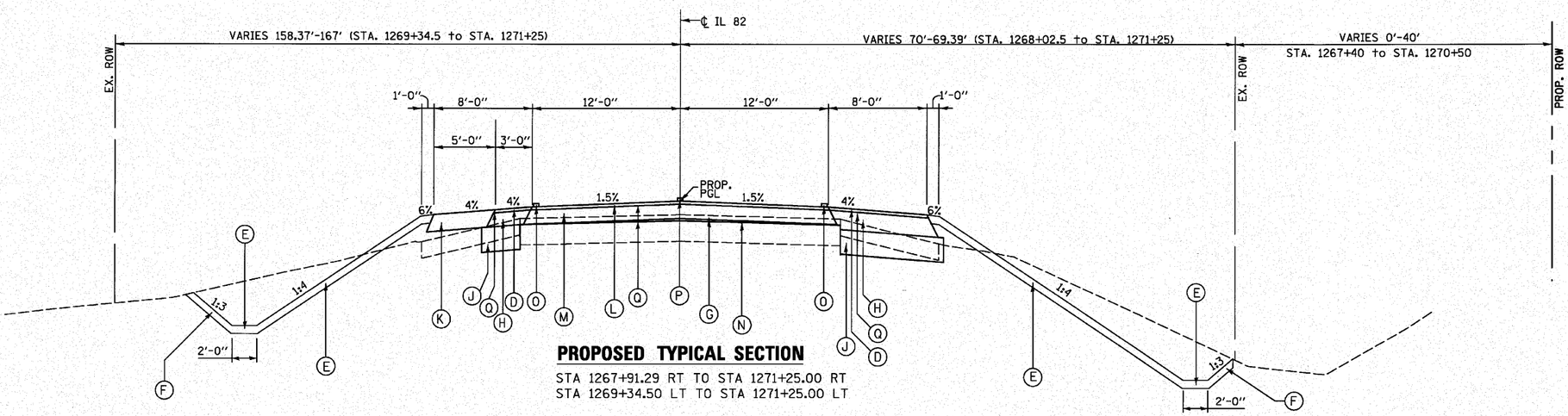


EXISTING TYPICAL SECTION

STA 1258+50 TO STA 1264+09.25
STA 1265+71.40 TO STA 1272+30

PROPOSED TYPICAL SECTION

STA 1259+50 RT TO STA 1261+32.76 RT
STA 1259+50 LT TO STA 1262+07.00 LT



PROPOSED TYPICAL SECTION

STA 1267+91.29 RT TO STA 1271+25.00 RT
STA 1269+34.50 LT TO STA 1271+25.00 LT

LEGEND

- (A) EXISTING AGGREGATE SHOULDERS
- (B) EXISTING HOT-MIX ASPHALT OVERLAY (VARIES 3.0" TO 8.5")
- (C) EXISTING PCC BASE COURSE (VARIES 6.2" TO 10.5")
- (D) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (1 1/2")
- (E) PROPOSED SEEDING, CLASS 2A
- (F) PROPOSED SEEDING, CLASS 4
- (G) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4" *
- (H) PROPOSED HOT-MIX ASPHALT SHOULDER, 6 1/2"
- (I) PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A 6-FOOT POSTS
- (J) PROPOSED AGGREGATE BASE COURSE, TYPE A, 12"
- (K) PROPOSED 8" AGGREGATE SHOULDER, TYPE B
- (L) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (1 1/2")
- (M) PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, (VARIES 1 1/2" TO 1'-5 1/4")
- (N) PROPOSED LEVELING BINDER (MACHINE METHOD), N50 (VARIES 0"-3/4")
- (O) PROPOSED PAINT PAVEMENT MARKING-LINE 4" (WHITE SOLID)
- (P) PROPOSED PAINT PAVEMENT MARKING-LINE 4" (YELLOW, 10' LINE-30' SKIP)
- (Q) PROPOSED PRIME COAT

* MILL BETWEEN STA. 1259+50 TO 1263+66.63 & BETWEEN STA 1268+25 TO 1271+25

HMA UNIT WEIGHT = 112LB/SQ YD/IN

FILE NAME = G:\ENG\08-6798-14A D2 Bridges Phase 2\IL82\CADD\civil\Sht\D2564d25-sht-typical.dgn

Wight

USER NAME = *USER*	DESIGNED - KAC	REVISED -
	DRAWN - JNH	REVISED -
PLOT SCALE = *SCALE*	CHECKED - KMB	REVISED -
PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

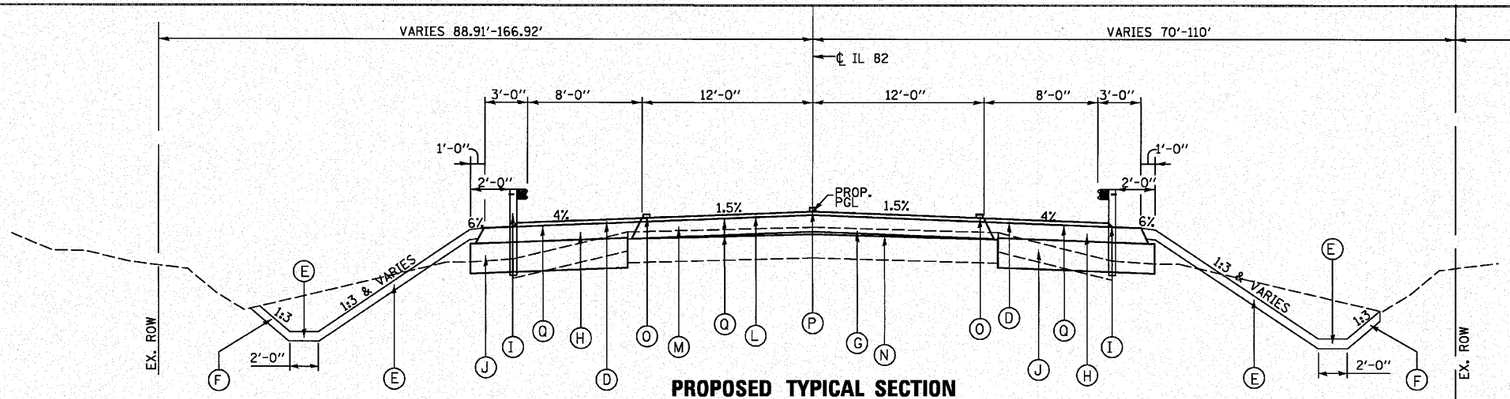
TYPICAL SECTIONS
IL 82 OVER GREEN RIVER

SCALE: NONE | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	11

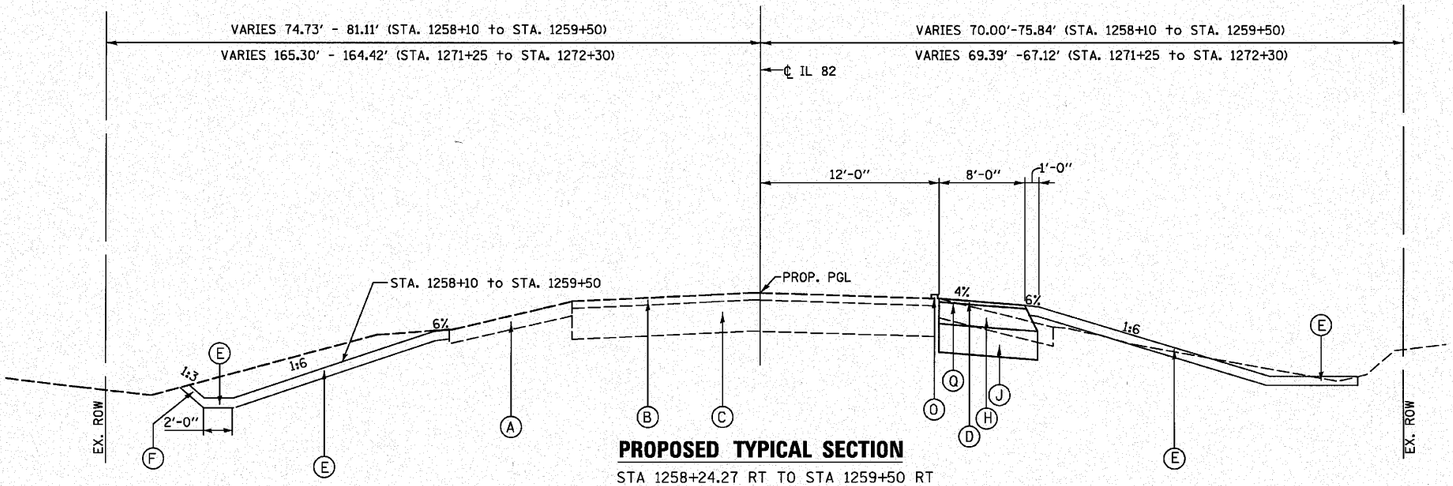
CONTRACT NO. 64D25

ILLINOIS | FED. AID PROJECT



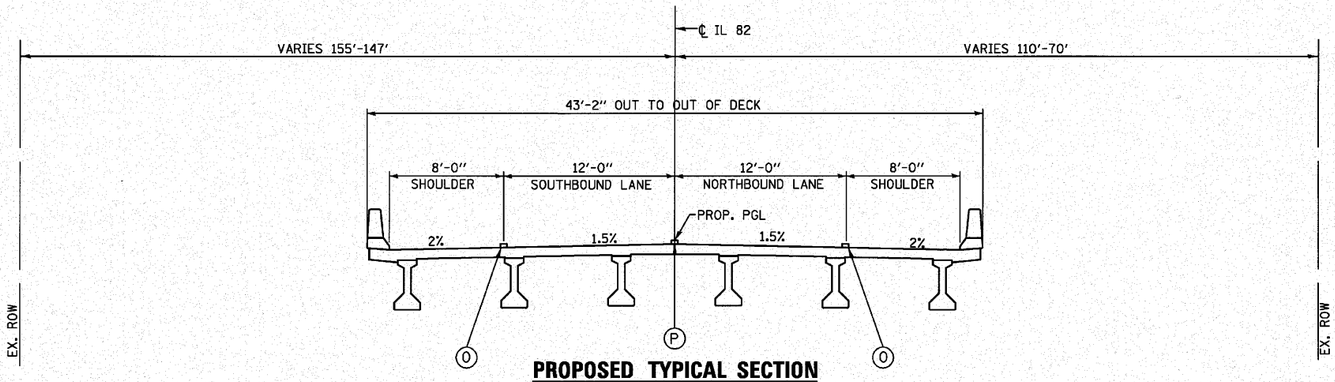
PROPOSED TYPICAL SECTION

STA 1261+32.76 RT TO STA 1263+60.47 RT
STA 1266+37 RT TO STA 1267+91.29 RT
STA 1262+07 LT TO STA 1263+72.79 LT
STA 1266+49.30 LT TO STA 1269+34.50 LT



PROPOSED TYPICAL SECTION

STA 1258+24.27 RT TO STA 1259+50 RT



PROPOSED TYPICAL SECTION
BRIDGE OVER GREEN RIVER

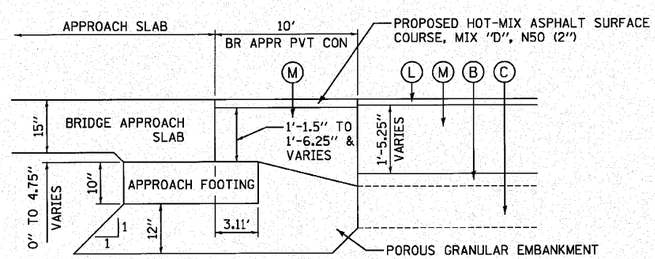
STA 1263+76.63 TO STA 1266+33.13

LEGEND

- (A) EXISTING AGGREGATE SHOULDERS
- (B) EXISTING HOT-MIX ASPHALT OVERLAY (VARIES 3.0" TO 8.5")
- (C) EXISTING PCC BASE COURSE (VARIES 6.2" TO 10.5")
- (D) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (1 1/2")
- (E) PROPOSED SEEDING, CLASS 2A
- (F) PROPOSED SEEDING, CLASS 4
- (G) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4" •
- (H) PROPOSED HOT-MIX ASPHALT SHOULDER, 6 1/2"
- (I) PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A 6-FOOT POSTS
- (J) PROPOSED AGGREGATE BASE COURSE, TYPE A, 12"
- (K) PROPOSED 8" AGGREGATE SHOULDER, TYPE B
- (L) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (1 1/2")
- (M) PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, (VARIES 1 1/2" TO 1'-5 1/4")
- (N) PROPOSED LEVELING BINDER (MACHINE METHOD), N50 (VARIES 0"-3/4")
- (O) PROPOSED PAINT PAVEMENT MARKING-LINE 4" (WHITE SOLID)
- (P) PROPOSED PAINT PAVEMENT MARKING-LINE 4" (YELLOW, 10' LINE-30' SKIP)
- (Q) PROPOSED PRIME COAT

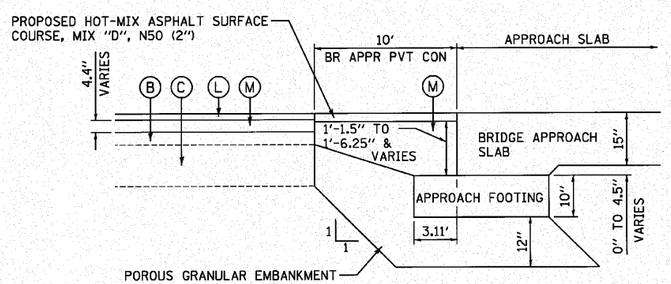
• MILL BETWEEN STA. 1259+50 TO 1263+66.63 & BETWEEN STA 1268+25 TO 1271+25

HMA UNIT WEIGHT = 112LB/SQ YD/IN



NORTH BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

STA 1266+33.13 TO STA 1266+43.13



SOUTH BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

STA 1263+66.63 TO STA 1263+76.63

USER NAME = *USER*	DESIGNED - KAC	REVISED -	
	DRAWN - JNH	REVISED -	
PLOT SCALE = *SCALE*	CHECKED - KMB	REVISED -	
PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
IL 82 OVER GREEN RIVER

SCALE: NONE | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	12
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		

FILE NAME = G:\ENGV08-6798-14A D2 Bridges Phase 2\IL82\CADD\civil\Sht\D2844d25-sht-typical-2.dgn

ORVILLE R. McCORD AND MAXINE M. McCORD
AS CO-TRUSTEES OF MAXINE M. McCORD TRUST

132.5' LT
1261+82.31

90' LT
1261+45.01

STA 1261+36.5, 40' LT
END SECTION, 18"
INV. 595.90

EXISTING ROW

46' PIPE CULVERT,
CLASS D, TY I, 18"

REMOVE EX.
18" CUL.

PROP. TRAFFIC BARRIER
TERMINAL TY. 1
(SPECIAL) FLARED

+10 BEGIN DITCH
REGRADING
(1258+10)

PROP.
℄ DITCH

LIMITS OF CONSTRUCTION

STA 1260+90.5, 40' LT
END SECTION, 18"
INV. 596.08

18" CMP

PAINT PAVEMENT
MARKING- LINE 4"
(WHITE SOLID)

+13.3,
℄ DRIVEWAY

24'

FE

58'

+53.8

11'

3'

18'

8'

STATION 1258+24.27
BEGIN PROP. SHOULDER
SAWCUT

8'

3'

5'

8.5'

13'

13'

21'

+50 SECTION BEGINS
(1259+50)

1258

1259

1260

1261

1262

+01 IMPROVEMENT BEGINS
(1258+01)

℄ IL RT 82

REMOVE EX.
GUARDRAIL

PROP. TRAFFIC BARRIER
TERMINAL TY. 1
(SPECIAL) FLARED

48'

FE

24'

+20.8,
℄ DRIVEWAY

PAINT PAVEMENT
MARKING- LINE 4"
(WHITE SOLID)

+68.1

18'

8'

3'

11'

REMOVE EX.
GUARDRAIL

EXISTING MAILBOX

PROP.
℄ DITCH

PE

15" CMP

15" CMP

LIMITS OF CONSTRUCTION

STA 1260+45.88 37.28' RT
END SECTION, 18"
INV. 596.48

+10 BEGIN DITCH
REGRADING
(1258+10)

STA 1260+00 40.6' RT
END SECTION, 18"
INV. 596.70

REMOVE EX.
15" CUL.

PAINT PAVEMENT
MARKING- LINE 4"
(YELLOW, 10' LINE-
30' SKIP)

EXISTING ROW

15"

70' RT
1259+06.31

10"

3"

46' PIPE CULVERT,
CLASS D, TY I, 18"

BUSH

BUSH

PROP. STEEL PLATE
BEAM GUARDRAIL,
TYPE A, 6' POSTS (TYP.)

GUY WIRE

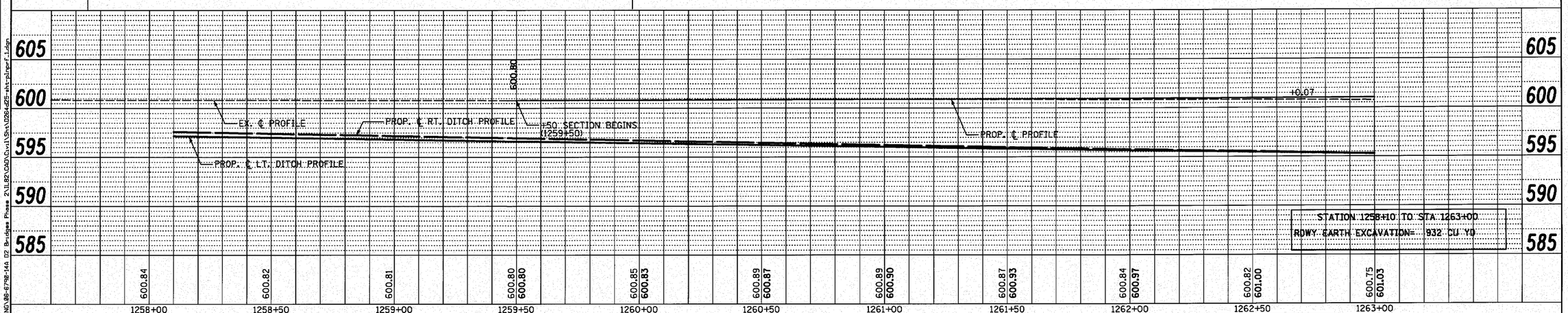
STEPHEN THOMAS RODGERS
AND DEBBRA M. ROGERS

BILLY G. WOLF AND VERDA M. WOLF,
TRUSTEES UNDER THE BILLY G. WOLF
LIVING TRUST

110' RT
1262+06.31

MATCHLINE STA 1263+00

N



Wight	USER NAME = *USER*	DESIGNED - KAC	REVISED -
		DRAWN - TMF	REVISED -
	PLOT SCALE = *SCALE*	CHECKED - KMB	REVISED -
	PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED PLAN & PROFILE
IL 82 OVER GREEN RIVER

SCALE: 1" = 20' | SHEET NO. 1 OF 3 SHEETS | STA. 1258+10 TO STA. 1263+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	13
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, NOTE BOOK, NO.; DATE, BY, REVISED, CADD FILE NAME

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, NOTE BOOK, NO.; STRUCTURE NO(S)/PINS CHKD

FILE NAME = G:\ENG\08-6798-140 D2 Bridges Phase 2\IL82\CADD\Civil\Sht\D26d25-sht-plnprf.dgn

PROPOSED ROW

POINT	STATION	O/S
5	1267+40	70' RT

TREE REMOVAL (UNIT)

ORVILLE R. McCORD AND MAXINE M. McCORD AS CO-TRUSTEES OF MAXINE M. McCORD TRUST

1263+76.63 TO 1266+33.13
REFER TO STRUCTURAL PLANS

1263+66.63 TO 1263+76.63
BRIDGE APPROACH PVMT. CONNECTOR (FLEXIBLE)

STATION 1264+90
REMOVE EXISTING 3-SPAN PPC DECK BEAM BRIDGE (S.N. 037-0071)

1263+81.39 END PAVEMENT REMOVAL
BEGIN APPR. SLAB REMOVAL

STATION 1265+04.88
CONSTRUCT 3-SPAN PPC I-BEAM BRIDGE (S.N. 037-0176)

GREEN RIVER

1263+66.63 BEGIN PAVEMENT REMOVAL

PROP. STONE RIPRAP CLASS A5 PROP FILTER FAB.

PROP. TRAFFIC BARRIER TERMINAL TYPE 6

REFER TO GENERAL NOTE *46

LIMITS OF CONSTRUCTION

PAINT PAVEMENT MARKING-LINE 4" (WHITE SOLID)

PROP. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS (TYP.)

REMOVE EX. GUARDRAIL

1265+68.47 BEGIN APPR. SLAB REMOVAL

1266+44, 20' LT
PROP. TYPE E INLET BOX STANDARD 610001

1266+43.13 END PAVEMENT REMOVAL

1266+33.13 TO 1266+43.13
BRIDGE ~~APPROACH~~ PVMT. CONNECTOR (FLEXIBLE)

STA 1266+44, 29.97' LT
END SECTION, 12"
INV. 598.00

5'x9' RIP RAP CLASS A4 WITH FILTER FABRIC

10' PIPE DRAIN 12"

PROP. TRAFFIC BARRIER TERMINAL TYPE 6.

℄ PROP. DITCH

ORVILLE R. McCORD AND MAXINE M. McCORD AS CO-TRUSTEES OF MAXINE M. McCORD TRUST

STA 1267+09.8, 48.8' LT
END SECTION, 18"
INV. 594.85

PROP. TRAFFIC BARRIER TERMINAL TY. 1 (SPECIAL) FLARED

49' PIPE CULVERT, CLASS D, TY II, 18"

STA 1267+58.17, 56.3' LT
END SECTION, 18"
INV. 593.16

PROP. TRAFFIC BARRIER TERMINAL TY. 1 (SPECIAL) TANGENT

PAINT PAVEMENT MARKING-LINE 4" (WHITE SOLID)

+16.5 | +75.4 | 24' | FE

+42.55, ℄ DRIVEWAY
44.6'

REMOVE EX. GUARDRAIL

℄ IL RT 82

MATCHLINE STA 1263+00

MATCHLINE STA 1268+00

1263 | 1264 | 1265+00 | 1266 | 1267

11' | 8' | 24' | 3' | 18' | 8'

PROP. TRAFFIC BARRIER TERMINAL TYPE 6

1264+09.39 END APPR. SLAB REMOVAL

PROP. STONE RIPRAP CLASS A5 PROP FILTER FAB.

REMOVE EX. USGS GAGE HOUSE & ACCESS PLATFORM

PAINT PAVEMENT MARKING-LINE 4" (YELLOW, 10' LINE-30' SKIP)

REFER TO GENERAL NOTE *46

REMOVE EX. GUARDRAIL

PROP. ℄ DITCH

PROP. STONE RIPRAP CLASS A5 PROP FILTER FAB.

1265+96.47 END APPR. SLAB REMOVAL. BEGIN PAVEMENT REMOVAL

LIMITS OF CONSTRUCTION 70' RT 1264+83.4

REMOVE EX. GUARDRAIL

REFER TO GENERAL NOTE *46

+55.9

℄ PROP. DITCH

℄ EX. DITCH

PAINT PAVEMENT MARKING-LINE 4" (YELLOW, 10' LINE-30' SKIP)

5-3" | 6-8" | 5-5" | 3-8"

PROP. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS (TYP.)

5

PROP. ROW

PROP. TRAFFIC BARRIER TERMINAL TYPE 6

17' PIPE DRAIN 12"

STA 1266+34, 37.22' RT
END SECTION, 12"
INV. 596.00

5'x9' RIP RAP CLASS A4 WITH FILTER FABRIC

PROP. TRAFFIC BARRIER TERMINAL TY. 1 (SPECIAL) FLARED

BILLY G. WOLF AND VERDA M. WOLF, TRUSTEES UNDER THE BILLY G. WOLF LIVING TRUST

PROPOSED USGS GAGE EQUIPMENT PAD WITH CABINET, SPECIAL
1265+86, 49'RT
REFER TO CONST. DETAILS

STA. 1266+34, 20' RT
PROP. TYPE E INLET BOX STANDARD 610001

2 GUY WIRE

2 GUY WIRE

TOPO WATER EDGE

TOPO WATER EDGE

EXISTING FARM FIELD

EXISTING ROW

110' RT
1264+64.54

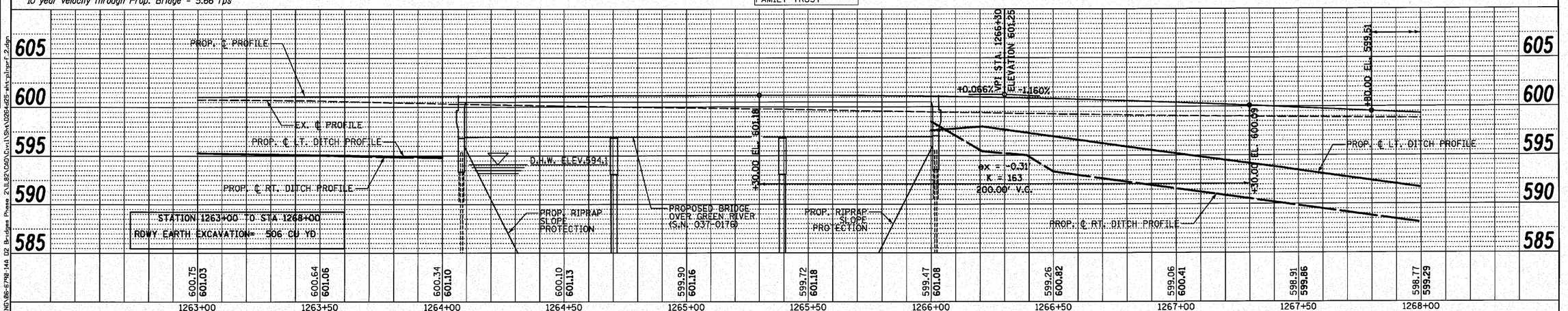
ANKE M. FRONZ, RANIER J. FRONZ, AND JOHN McKIBBON, AS TRUSTEES OF BARBARA J. McKIBBON FAMILY TRUST

WATERWAY INFORMATION

Drainage Area = 999 sq. mile
Exist. Low Grade Elev. 599.31 @ Sta. 1266+23
Prop. Low Grade Elev. 600.96 @ Sta. 1266+23

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Ten-Year	10	10100	1651.1	2055.9	592.4	1.0	0.9	593.3	593.3
Design	50	12600	1867.5	2355.5	594.1	1.0	0.9	595.1	595.0
Base	100	13600	1957.7	2482.2	594.8	1.0	0.9	595.8	595.6
Max. Calc.	500	15400	2100.6	2537.1	595.9	1.0	0.1	596.9	595.9

10 year velocity through Exist. Bridge = 6.38 fps
10 year velocity through Prop. Bridge = 5.66 fps



Wight

USER NAME = @USER@	DESIGNED - KAC	REVISED -	
	DRAWN - TMF	REVISED -	
PLOT SCALE = @SCALE@	CHECKED - KMB	REVISED -	
PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED PLAN & PROFILE
IL 82 OVER GREEN RIVER

SCALE: 1" = 20' | SHEET NO. 2 OF 3 SHEETS | STA. 1263+00 TO STA. 1268+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	14
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

PLAN — SURVEYED | PLOTTED | DRAWN | CHECKED | DESIGNED | QUANTITIES CHECKED | QUANTITIES COMPUTED | STRUCTURE DETAILED | NOTE BOOK | NO. | BY | DATE | ADD'L FILE NAME

PROFILE — SURVEYED | PLOTTED | DRAWN | CHECKED | DESIGNED | QUANTITIES CHECKED | QUANTITIES COMPUTED | STRUCTURE DETAILED | NOTE BOOK | NO. | BY | DATE | ADD'L FILE NAME

FILE NAME = G:\ENGV\06-6798-144 D2 Bridges Phase 2\IL82\D6D\Civil\Sht\D2B4d25-aht-plnpf-2.dgn

PROPOSED ROW

POINT	STATION	O/S
4	1268+25	110' RT
3	1268+75	110' RT
2	1270+00	90' RT
1	1270+50	70' RT

TREE REMOVAL (ACRE)

TREE REMOVAL (UNIT)

ORVILLE R. McCORD AND MAXINE M. McCORD AS CO-TRUSTEES OF MAXINE M. McCORD TRUST

STATION 1269+42.55, 64.65' LT.
10'-10 1/2", 6' X 6' C.I.P. BOX CULVERT EXTENSION AND 31'- 9 3/4" C.I.P GRATED END SECTION (1:4.8)
PROP ELEV.: 586.59
(REFER TO STRUCTURE NO. 037-1085 PLANS)

PROP. STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS (TYP)

OWNER TO ADJUST OR RELOCATE TELECOMMUNICATION PEDESTAL

LIMITS OF CONSTRUCTION

OWNER TO ADJUST EX. TELECOMMUNICATION MANHOLE AND PEDESTAL

EX. TREE LINE

PROP. TRAFFIC BARRIER TERMINAL TY. 1 (SPECIAL FLARED) (TYP.)

EXIST. ELEV.: 586.37

PROP. ℄ DITCH

℄ EX. DITCH

PAINT PAVEMENT MARKING-LINE 4" (WHITE SOLID)

REMOVE EX. GUARDRAIL

1271+25 SECTION & IMPROVEMENT ENDS

MATCHLINE STA 1268+00

℄ IL RT 82

EXIST. ELEV.: 586.04

STA. 1269+05.61
EXIST. 6'X6' PCC BOX CULVERT (S.N. 037-1085)

REMOVE EX. GUARDRAIL

PAINT PAVEMENT MARKING-LINE 4" (YELLOW, 10' LINE-30' SKIP)

PAINT PAVEMENT MARKING-LINE 4" (WHITE SOLID)

℄ EX. DITCH

PROP. ℄ DITCH

EXISTING ROW

PROP. STONE RIPRAP CLASS A4 (TYP.) & PROP. FILTER FABRIC, 18' X 19'

70' RT
1270+96.74

LIMITS OF CONSTRUCTION

PROP. ROW (.1825 ACRES)

APPROX. LIMTS OF EX. WETLANDS

STATION 1268+65.64, 69.94' RT.
14'-11 1/2", 6' X 6' C.I.P. BOX CULVERT EXTENSION AND 34'-5 1/4" C.I.P. GRATED END SECTION (1:5.0)
PROP. ELEV.: 585.79
(REFER TO STRUCTURE NO. 037-1085 PLANS)

ANKE M. FRONZ, RANIER J. FRONZ, AND JOHN McKIBBON, AS TRUSTEES OF BARBARA J. McKIBBON FAMILY TRUST

APPROX. LIMTS OF EX. WETLANDS

PROFILE

PROP. ℄ PROFILE

EX. ℄ PROFILE

PROP. ℄ L.T. DITCH PROFILE

PROP. ℄ RT. DITCH PROFILE

VPI STA. 1268+80.00
ELEVATION 598.25

-1.16%

-0.41%

K = 268

200.00' V.C.

+80.00 EL. 597.94

597.34

SECTION ENDS (1271+25)

STATION 1268+00 TO STA 1271+25
RDWY EARTH EXCAVATION= 1159 CU YD

	1268+00	1268+50	1269+00	1269+50	1270+00	1270+50	1271+00	1271+50	1272+00	1272+50	1273+00	1273+50
EX. ℄	598.77	598.50	598.25	597.99	597.83	597.67	597.44	597.25	597.11	597.10	597.28	597.66
PROP. ℄	599.29	598.79	598.39	598.08	597.86	597.65	597.44					

605 600 595 590 585

PLAN

SURVEYED
PLOTTED
ALIGNMENT CHECKED
GRADES CHECKED
STRUCTURE NO(S).
CADD FILE NAME

NOTE BOOK
NO.

BY DATE

FILE NAME = G:\ENGV\05-6798-144 D2 Bridges Phase 2\IL82\CADD\Civil\Sht\D26ed25-sht-plnpr-r-3.dgn

Wight

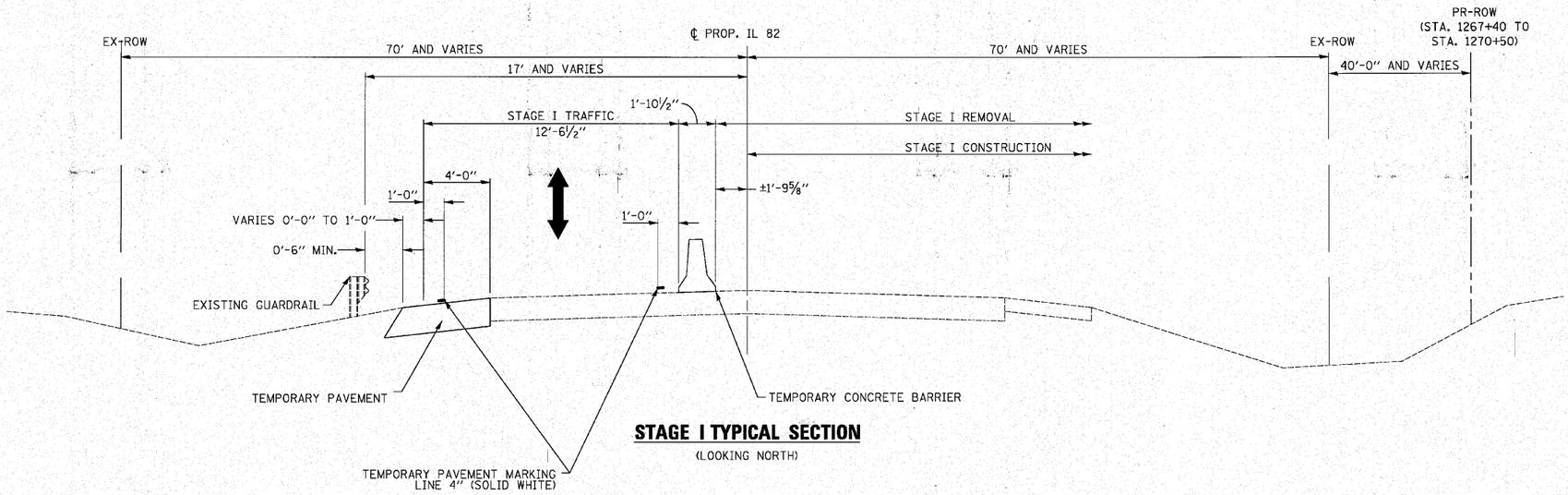
USER NAME = ⊕USER⊕	DESIGNED - KAC	REVISED -	
	DRAWN - TMF	REVISED -	
PLOT SCALE = ⊕SCALE⊕	CHECKED - KMB	REVISED -	
PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED PLAN & PROFILE
IL 82 OVER GREEN RIVER

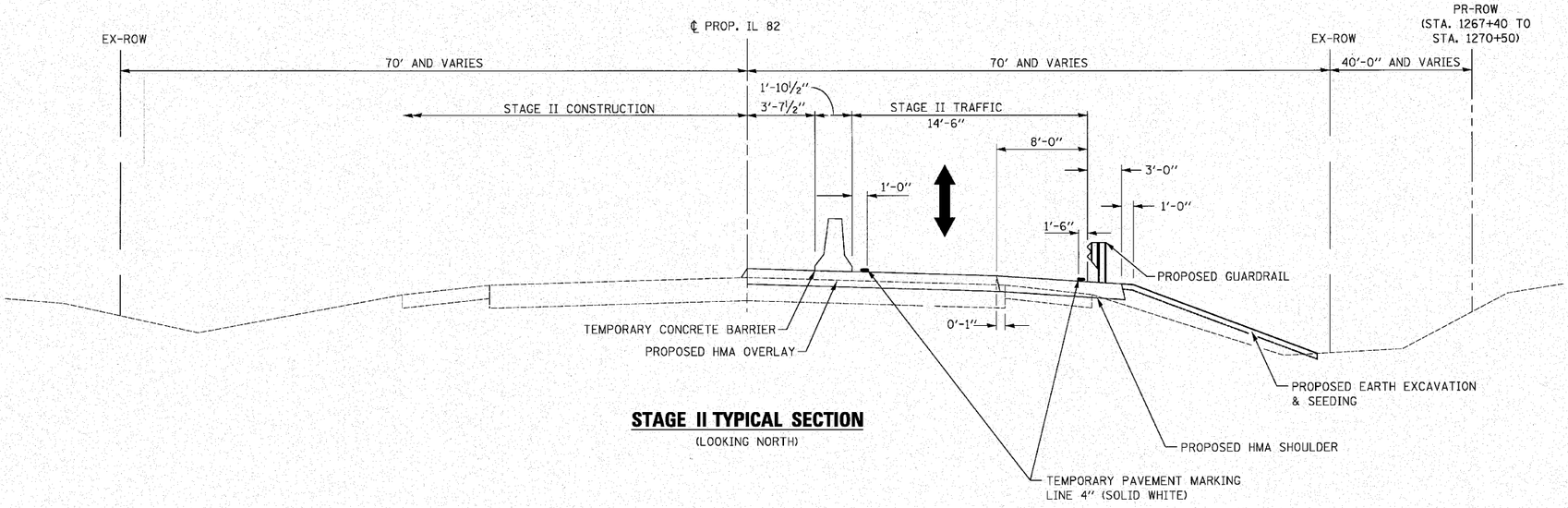
SCALE: 1" = 20' | SHEET NO. 3 OF 3 SHEETS | STA. 1268+00 TO STA. 1271+25

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	15
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		



STAGE I TYPICAL SECTION

(LOOKING NORTH)



STAGE II TYPICAL SECTION

(LOOKING NORTH)

LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois Westmont, Illinois	USER NAME = *USER*	DESIGNED - CRV	REVISED -
		DRAWN - CRV	REVISED -
	PLOT SCALE = *SCALE*	CHECKED - ST	REVISED -
	PLOT DATE = *DATE*	DATE - 07/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC TYPICAL SECTIONS
IL 82 OVER GREEN RIVER

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	16
		CONTRACT NO. 64D25		
	ILLINOIS	FED. AID PROJECT		

LEGEND

- WORK AREA
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT/ DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT (PER HWY. STD. 701321-10)
- SIGN
- DETECTOR LOOPS
- TRAFFIC SIGNAL
- DOUBLE VERTICAL PANELS

PRESTAGE CONSTRUCTION:

1. CONSTRUCT 5' TEMPORARY PAVEMENT ON THE WEST SIDE BETWEEN STA. 1259+98 TO STA. 1264+09 AND STA. 1265+70 TO STA. 1270+57 TO PROVIDE A MINIMUM 12'6" STAGE LANE WIDTH AS SHOWN IN THE PLANS. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH HIGHWAY STANDARD 701326.

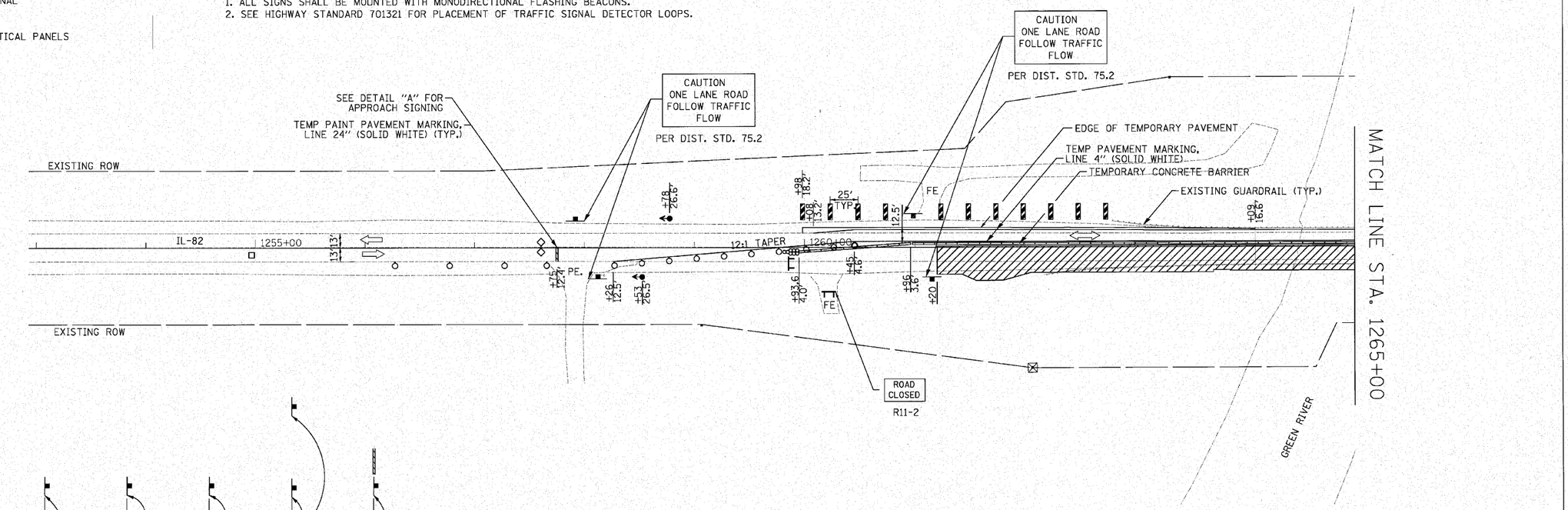
STAGE I CONSTRUCTION

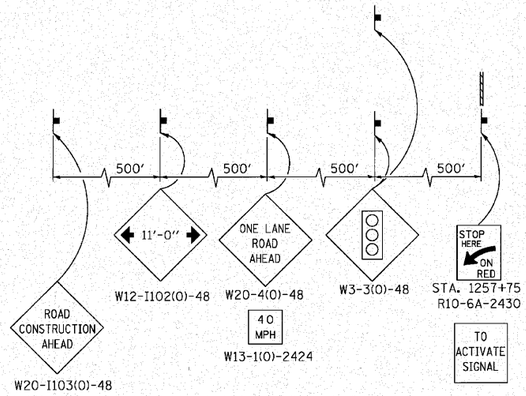
1. REMOVE WEST SIDE EXISTING PAVEMENT MARKING EDGE LINE AND CENTER LINE IMMEDIATELY PRIOR TO BARRIER WALL PLACEMENT IN ACCORDANCE WITH HIGHWAY STANDARD 701201.
2. CLOSE EAST HALF OF IL 82 IN ACCORDANCE WITH HIGHWAY STANDARD 701321 AND AS SHOWN IN PLANS.
3. PERFORM EAST HALF STRUCTURAL, ROADWAY, AND SHOULDER RECONSTRUCTION.
4. APPLY TEMPORARY PAVEMENT MARKINGS FOR USE WITH STAGE 2 AS SHOWN IN THE PLANS.

NOTES:

1. ALL SIGNS SHALL BE MOUNTED WITH MONODIRECTIONAL FLASHING BEACONS.
2. SEE HIGHWAY STANDARD 701321 FOR PLACEMENT OF TRAFFIC SIGNAL DETECTOR LOOPS.

SEQUENCE OF OPERATIONS									
PHASE	A			B			C		
INTERVAL	1	2	3	4	5	6	7	8	9
NORTHBOUND	G	Y	R	R	R	R	R	R	R
SOUTHBOUND	R	R	R	G	Y	R	R	R	R





DETAIL "A"

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SCALE IN FEET

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		DRAWN - CRV	REVISED -
	PLOT SCALE = #SCALE#	CHECKED - ST	REVISED -
	PLOT DATE = #DATE#	DATE - 07/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

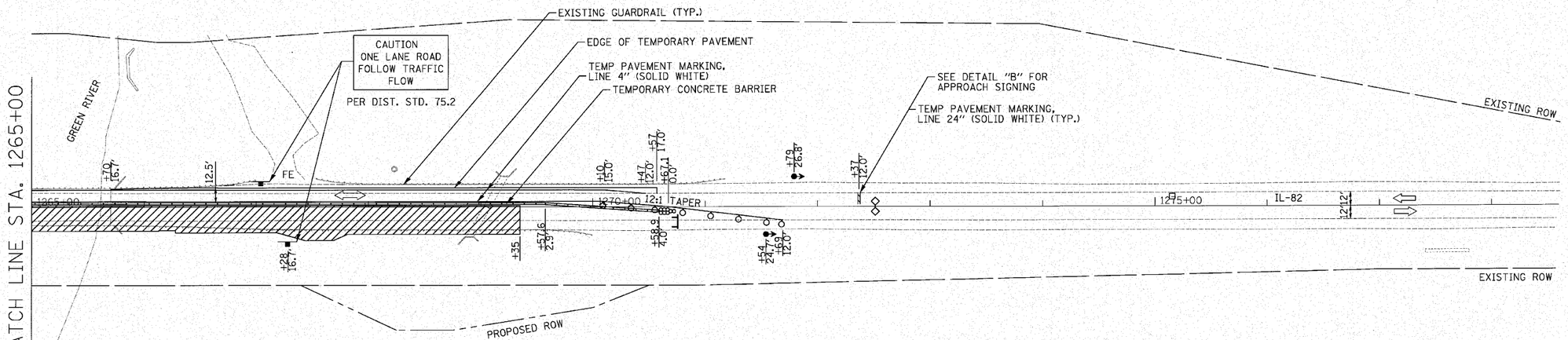
MAINTENANCE OF TRAFFIC PLAN – STAGE 1
IL 82 OVER GREEN RIVER

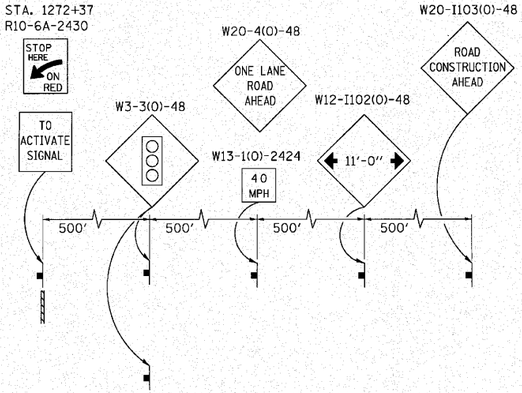
SCALE: 1" = 50' | SHEET NO. 1 OF 2 SHEETS | STA. 1253+00 TO STA. 1265+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	17
		CONTRACT NO. 64D25		
	ILLINOIS	FED. AID PROJECT		

LEGEND

- WORK AREA
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT/ DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT (PER HWY. STD. 701321-10)
- SIGN
- DETECTOR LOOPS
- TRAFFIC SIGNAL
- DOUBLE VERTICAL PANELS





DETAIL "B"

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SCALE IN FEET

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		DRAWN - CRV	REVISED -
	PLOT SCALE = #SCALE#	CHECKED - ST	REVISED -
	PLOT DATE = #DATE#	DATE - 07/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN – STAGE 1
IL 82 OVER GREEN RIVER

SCALE: 1" = 50' | SHEET NO. 2 OF 2 SHEETS | STA. 1265+00 TO STA. 1278+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	18
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT -			

LEGEND

- WORK AREA
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT/ DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT (PER HWY. STD. 701321-10)
- SIGN
- DETECTOR LOOPS
- TRAFFIC SIGNAL
- DOUBLE VERTICAL PANELS

STAGE 2 CONSTRUCTION

1. CLOSE WEST HALF OF IL 82 IN ACCORDANCE WITH HIGHWAY STANDARD 701321 AND AS SHOWN IN THE PLANS.
2. REMOVE TEMPORARY PAVEMENT ON THE WEST SIDE.
3. PERFORM WEST HALF STRUCTURAL AND ROADWAY RECONSTRUCTION BETWEEN THE LIMITS AS SHOWN IN THE PLANS.

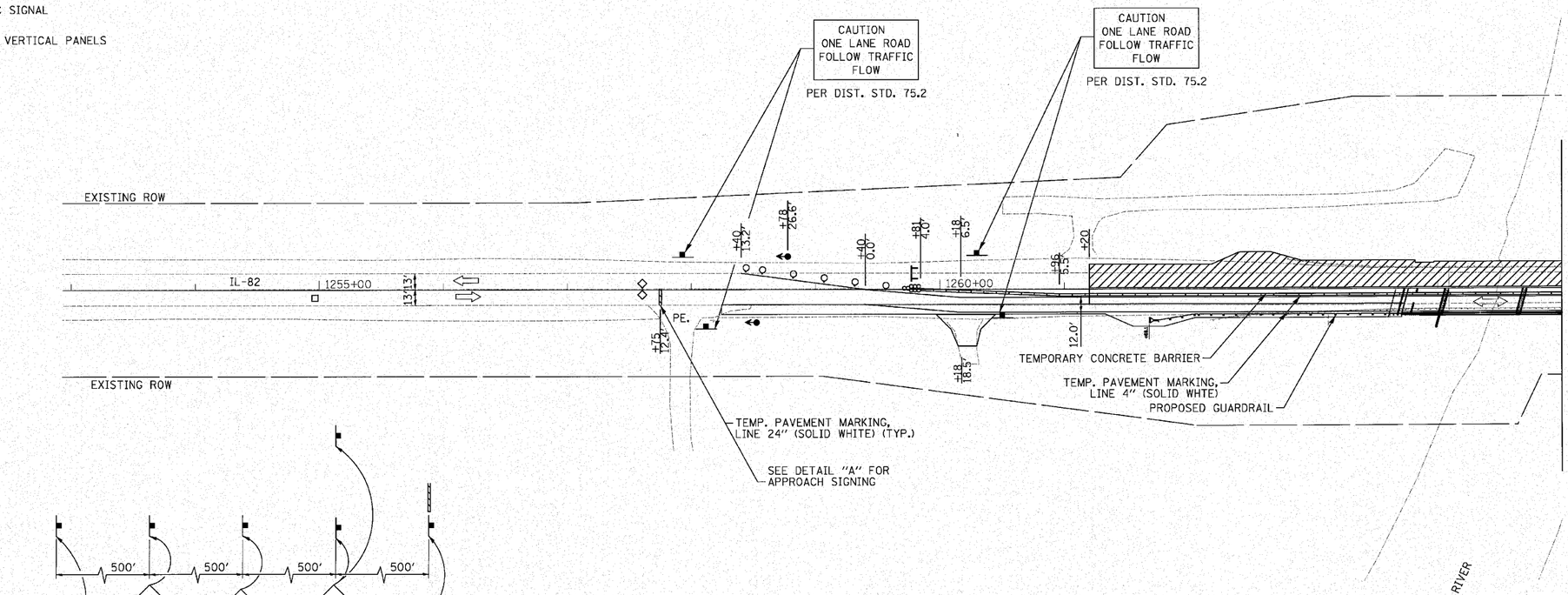
STAGE 3 CONSTRUCTION

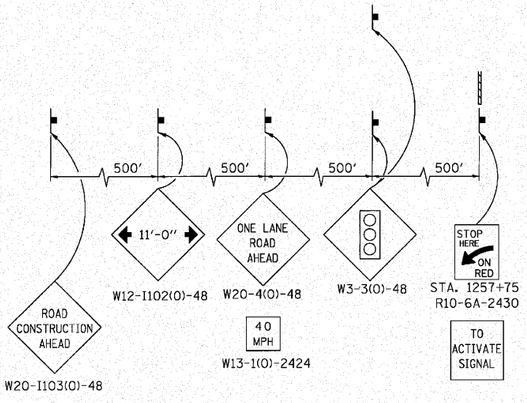
1. COMPLETE REMAINDER OF SHOULDER CONSTRUCTION, PLACE SURFACE COURSE ON THE TRAFFIC LANES, PLACE THE TOP LIFT ON THE HMA SHOULDERS AND APPLY PERMANENT PAVEMENT MARKINGS UNDER HIGHWAY STANDARD 701311.

NOTES:

1. ALL SIGNS SHALL BE MOUNTED WITH MONODIRECTIONAL FLASHING BEACONS.
2. SEE HIGHWAY STANDARD 701321 FOR PLACEMENT OF TRAFFIC SIGNAL DETECTOR LOOPS.

SEQUENCE OF OPERATIONS									
PHASE	A			B			C		
INTERVAL	1	2	3	4	5	6	7	8	9
NORTHBOUND	G	Y	R	R	R	R	R	R	R
SOUTHBOUND	R	R	R	G	Y	R	R	R	R





DETAIL "A"

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SCALE IN FEET

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		DRAWN - CRV	REVISED -
	PLOT SCALE = #SCALE#	CHECKED - ST	REVISED -
	PLOT DATE = #DATE#	DATE - 07/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

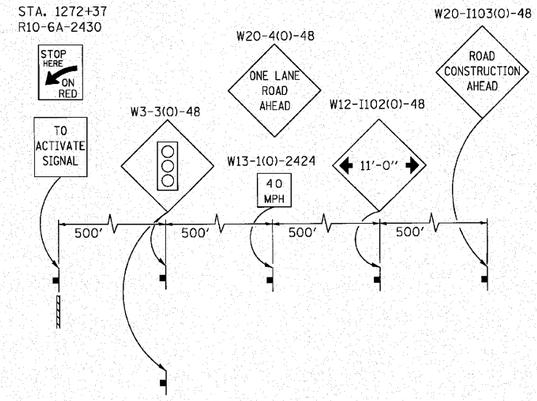
MAINTENANCE OF TRAFFIC PLAN – STAGE 2
IL 82 OVER GREEN RIVER

SCALE: 1" = 50'. | SHEET NO. 1 OF 2 SHEETS | STA. 1253+00 TO STA. 1265+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	19
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

LEGEND

- WORK AREA
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT/ DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT (PER HWY. STD. 701321-10)
- SIGN
- DETECTOR LOOPS
- TRAFFIC SIGNAL
- DOUBLE VERTICAL PANELS



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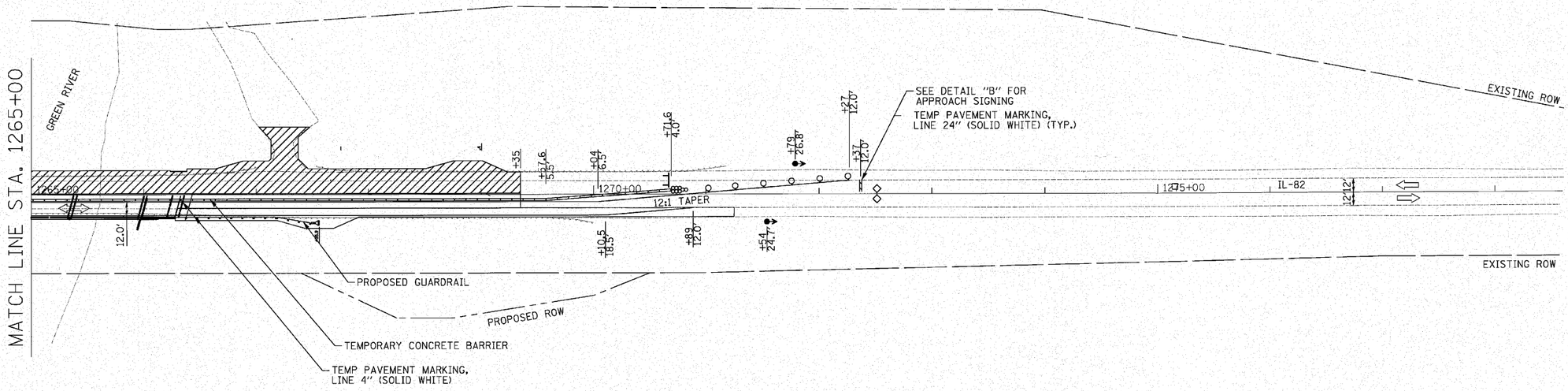

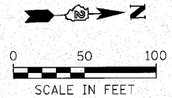

LIN ENGINEERING LTD.
Consulting Engineers
Chatham, Illinois Westmont, Illinois

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	DRAWN - CRV	REVISED -
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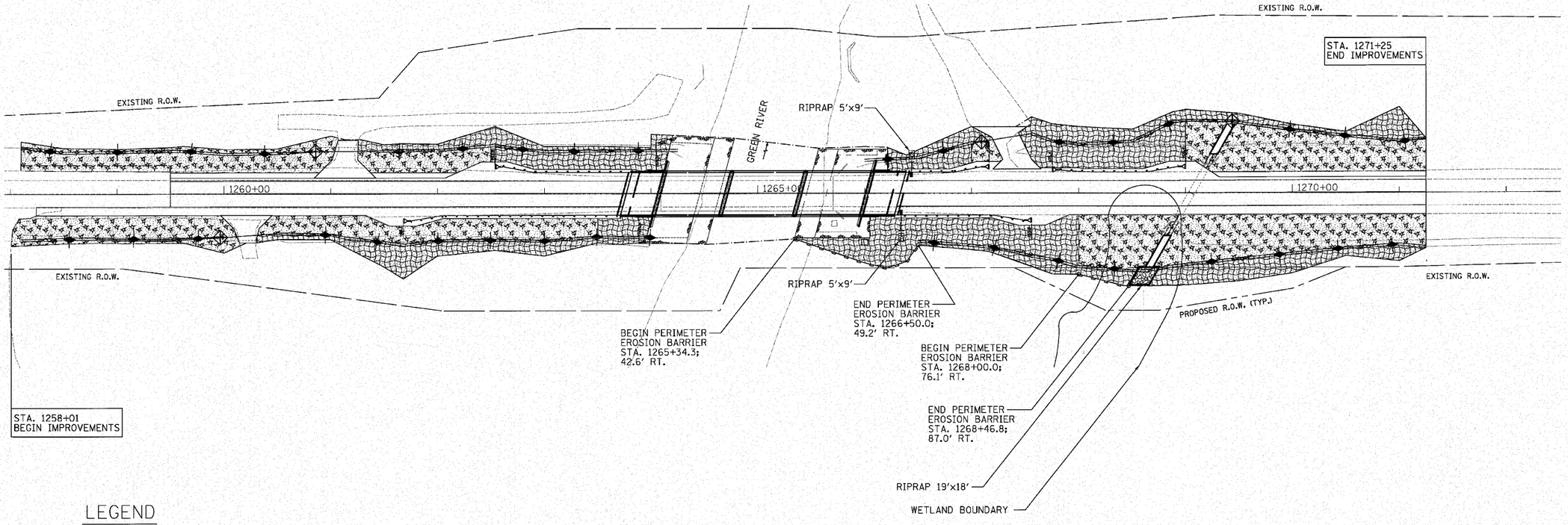
PLOT DATE = @DATE@	DATE - 07/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN – STAGE 2
IL 82 OVER GREEN RIVER

SCALE: 1" = 50' | SHEET NO. 2 OF 2 SHEETS | STA. 1265+00 TO STA. 1278+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	20
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			



LEGEND

- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
- EROSION CONTROL BLANKET
- MULCH, METHOD 2
- SEEDING:
  CLASS 2A ON FORESLOPES AND DITCH BOTTOMS
  CLASS 4 ON BACKSLOPES
- INLET & PIPE PROTECTION AND INLET FABRIC
- RIPRAP CLASS A4 WITH FILTER FABRIC

NOTES:

1. SEE STRUCTURAL PLANS FOR CHANNEL RIPRAP DETAILS.
2. DITCH CHECKS ARE SPACED AT 50 FEET (TYP).
3. TEMPORARY SEEDING SHALL BE APPLIED AT 100 POUNDS PER ACRE FOR 4 APPLICATIONS.
4. EROSION CONTROL BLANKET TO BE USED ON SLOPES 1:3 AND STEEPER, FOR ALL OTHER LOCATIONS USE MULCH METHOD 2.

N

0 50 100

SCALE IN FEET

LIN ENGINEERING,LTD.
Consulting Engineers
Chatham, Illinois Westmont, Illinois

USER NAME = $USER$	DESIGNED - CRV	REVISED -
	DRAWN - CRV	REVISED -
PLOT SCALE = $SCALE$	CHECKED - ST	REVISED -
PLOT DATE = $DATE$	DATE - 07/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
IL 82 OVER GREEN RIVER

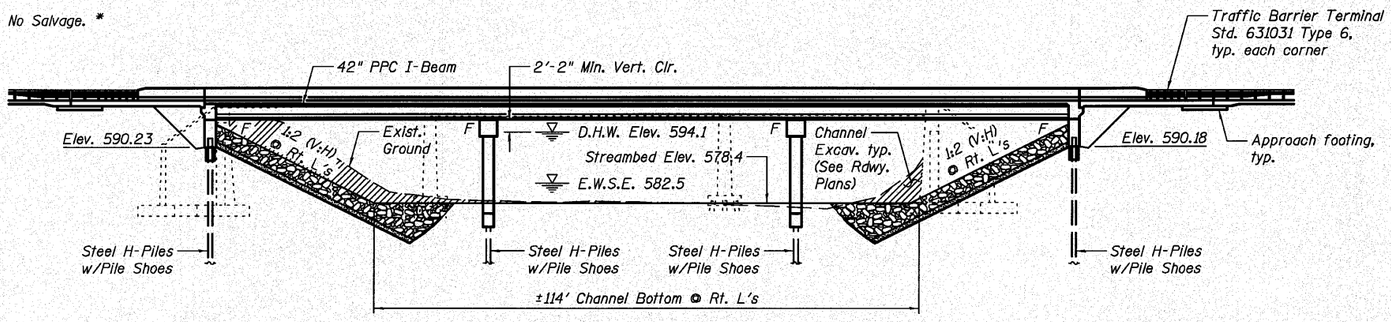
SCALE: 1" = 50' | SHEET NO. 1 OF 1 SHEETS | STA. 1258+01 TO STA. 1271+25

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	21
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

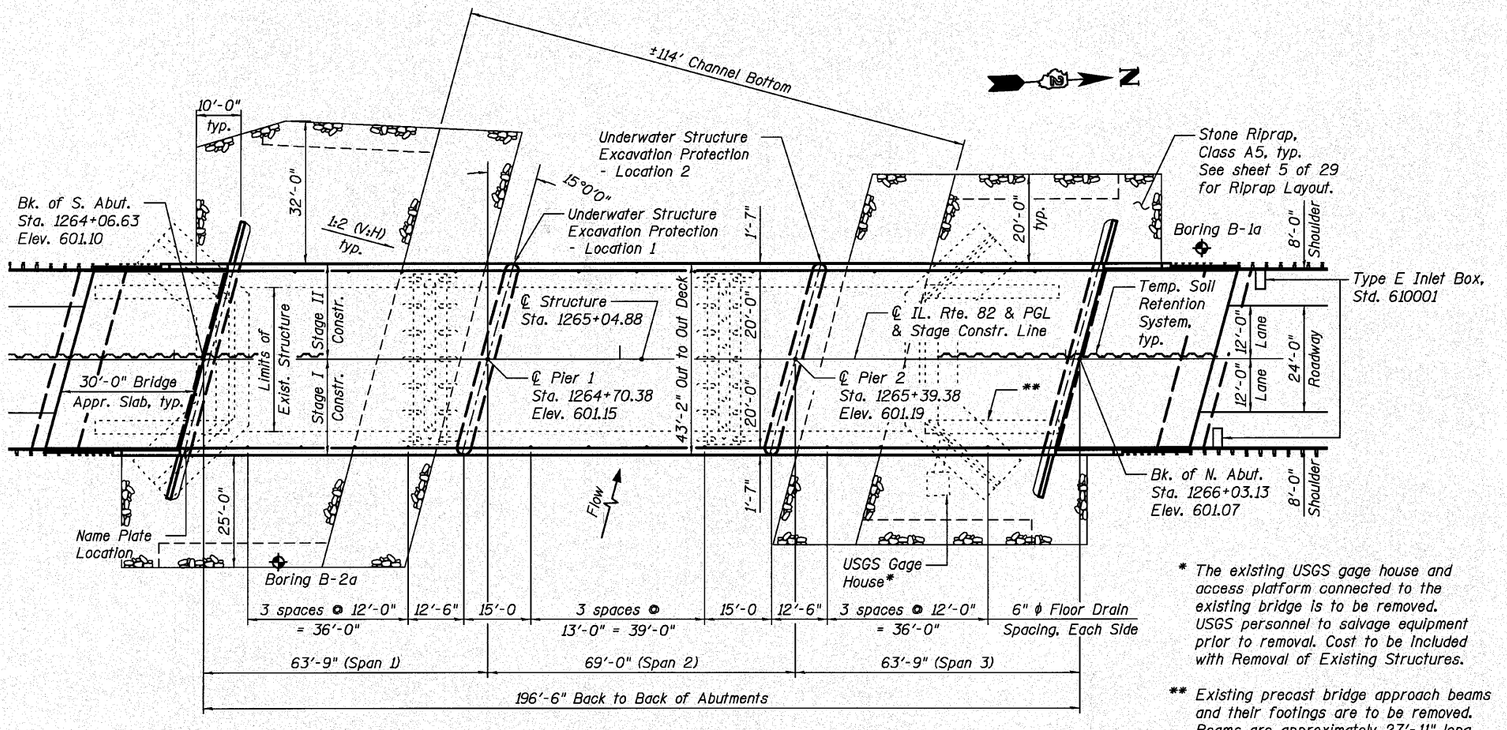
Bench Mark: Chiseled square on the NE wingwall of the existing bridge, S.N. 037-0071 Elev: 597.22

Existing Structure: S.N. 037-0071, built in 1931 as S.B.I. 82 Section 129-B&C at Station 1262+18. Original structure is a single span truss bridge supported by full height RC abutments on timber piles. The structure was reconstructed in 1971 as S.B.I. 82, Section 129-BR-1. Two intermediate solid wall RC piers on concrete piles were added. The abutments were partially removed and rehabilitated. The truss superstructure was replaced with a 3 simple span PPC deck beam superstructure. The reconstructed structure is 162'-7" bk. to bk. abutments and 33'-0" out to out deck. In 1984 the bituminous wearing surface was removed and replaced with PCC. Structure is to be removed and replaced. Traffic to be maintained utilizing stage construction.

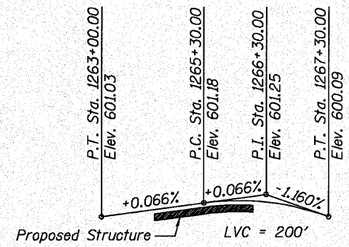
No Salvage. *



ELEVATION



PLAN



PROFILE GRADE
(along ℄ roadway)

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
2007 AASHTO LRFD Bridge Design Specifications with 2008 and 2009 Interims

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS
f'c = 7,000 psi
f'ci = 6,000 psi
f's = 270,000 psi (1/2" ϕ low lax strands)
fsi = 201,960 psi (1/2" ϕ low lax strands)

SEISMIC DATA
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.086g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.136g
Soil Site Class = D

WATERWAY INFORMATION

Drainage Area = 999 sq. mile
Exist. Low Grade Elev. 599.31 @ Sta. 1266+23
Prop. Low Grade Elev. 600.96 @ Sta. 1266+23

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Ten-Year	10	10100	1651.1	2055.9	592.4	1.0	0.9	593.3	593.3
Design	50	12600	1867.5	2355.5	594.1	1.0	0.9	595.1	595.0
Base	100	13600	1957.7	2482.2	594.8	1.0	0.9	595.8	595.6
Max. Calc.	500	15400	2100.6	2537.1	595.9	1.0	0.1	596.9	595.9

10 year velocity through Exist. Bridge = 6.38 fps
10 year velocity through Prop. Bridge = 5.66 fps

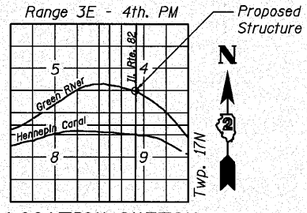
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	S. Abut.	Pier 1	Pier 2	N. Abut.
	590.3	571.0	571.0	590.2

STATE OF ILLINOIS
BRIAN J. MALONE
081-006002
WHEATON, ILLINOIS
LICENSED STRUCTURAL ENGINEER

Brian J Malone
Expires 11-30-2012

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson (JDD)
ENGINEER OF BRIDGES AND STRUCTURES



LOCATION SKETCH

* The existing USGS gage house and access platform connected to the existing bridge is to be removed. USGS personnel to salvage equipment prior to removal. Cost to be included with Removal of Existing Structures.

** Existing precast bridge approach beams and their footings are to be removed. Beams are approximately 27'-11" long and 3'-9" wide. Cost to be included with Removal of Existing Structures.

GENERAL PLAN AND ELEVATION
ILLINOIS ROUTE 82 OVER GREEN RIVER
F.A.P. ROUTE 638 - SEC. 129BR-4
HENRY COUNTY
STATION 1265+04.88
STRUCTURE NO. 037-0176

Wight

	DESIGNED - MAS/GPM	REVISED -
	CHECKED - BJM	REVISED -
	DRAWN - JNH	REVISED -
PLOT DATE = 11/22/2018	CHECKED - BJM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 037-0176
SHEET NO. 1 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	22
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		

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GENERAL NOTES

The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

If the Contractor's procedures for existing beam removal involves placement of heavy equipment on the existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads. Cost included with Removal of Existing Structures.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

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

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

All (embedded and separate) bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.

Slipforming of the concrete parapet is not allowed.

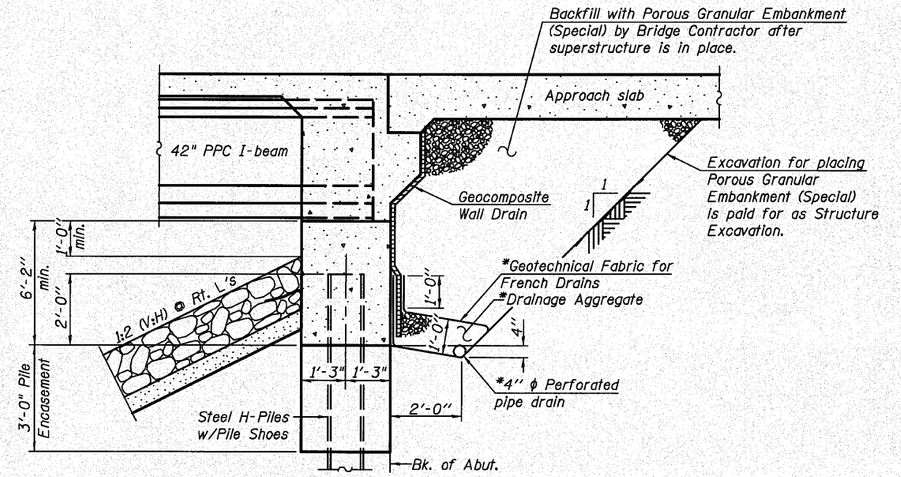
INDEX OF SHEETS

1	General Plan and Elevation
2	General Data
3	Stage Construction Details
4	Temporary Concrete Barrier for Stage Construction
5	Substructure Layout
6-9	Top of Slab Elevations
10	Top of South Approach Slab Elevations
11	Top of North Approach Slab Elevations
12	Superstructure
13	Superstructure Details
14-15	Bridge Approach Slab Details
16-17	Diaphram Details
18	Framing Plan
19	42" PPC I-Beam, Spans 1 & 3
20	42" PPC I-Beam, Span 2
21	42" PPC I-Beam Details
22	South Abutment
23	North Abutment
24	Pier 1
25	Pier 2
26	HP Pile Details
27	Bar Splicer Assembly and Mechanical Splicer Details
28-29	Boring Logs

TOTAL BILL OF MATERIAL

	ITEM	UNIT	SUPER	SUB	TOTAL
	POROUS GRANULAR EMBANKMENT	CU YD		37	37
	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD		198	198
	STONE RIPRAP, CLASS A5	SQ YD		1340	1340
	FILTER FABRIC	SQ YD		1340	1340
	REMOVAL OF EXISTING STRUCTURES	EACH			1
	STRUCTURE EXCAVATION	CU YD		392	392
	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD		37	37
	FLOOR DRAINS	EACH	24		24
	CONCRETE STRUCTURES	CU YD		273.3	273.3
	CONCRETE SUPERSTRUCTURE	CU YD	446.0		446.0
	BRIDGE DECK GROOVING	SQ YD	1086		1086
	CONCRETE ENCASEMENT	CU YD		15.4	15.4
**	PROTECTIVE COAT	SQ YD	1330		1330
	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 42 IN.	FOOT	1157.5		1157.5
	REINFORCEMENT BARS, EPOXY COATED	POUND	104440	24480	128920
	BAR SPLICERS	EACH	923	204	1127
	FURNISHING STEEL PILES HP14X73	FOOT		1242	1242
	DRIVING PILES	FOOT		1242	1242
	TEST PILE STEEL HP14X73	EACH		4	4
	PILE SHOES	EACH		28	28
	NAME PLATES	EACH	1		1
	GEOCOMPOSITE WALL DRAIN	SQ YD		141	141
	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT		168	168
	ASBESTOS BEARING PAD REMOVAL	EACH			22
	TEMPORARY SOIL RETENTION SYSTEM	SQ FT			2020
	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH		1	1
	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH		1	1

** Quantity includes top of concrete surface of bridge deck and approach slab end to end and the top and inside faces of the parapets and curb.



SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. ℄ Rt. L's)

*Included in the cost of Pipe Underdrains 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).

STATION 1265+04.88
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RT. 638 SEC. 129BR-4
LOADING HL-93
STRUCTURE NO. 037-0176

NAME PLATE

See Std. 515001

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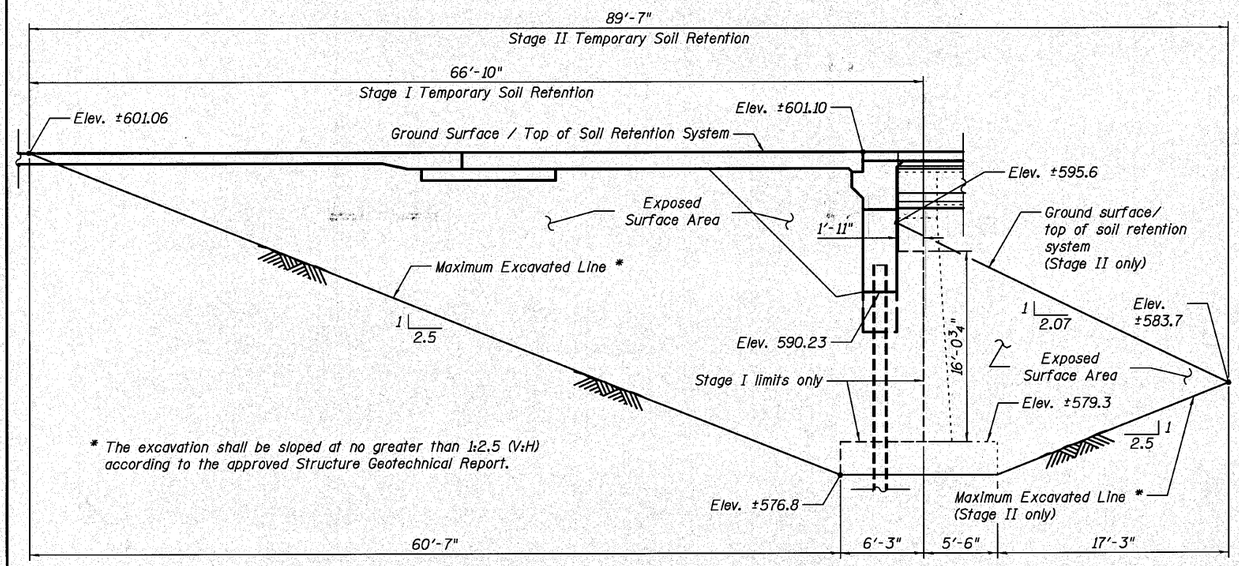
Wight

	DESIGNED - GPM	REVISED -	
	CHECKED - BJM	REVISED -	
	DRAWN - JNH/MWS	REVISED -	
PLOT DATE = 11/22/2018	CHECKED - BRT	REVISED -	

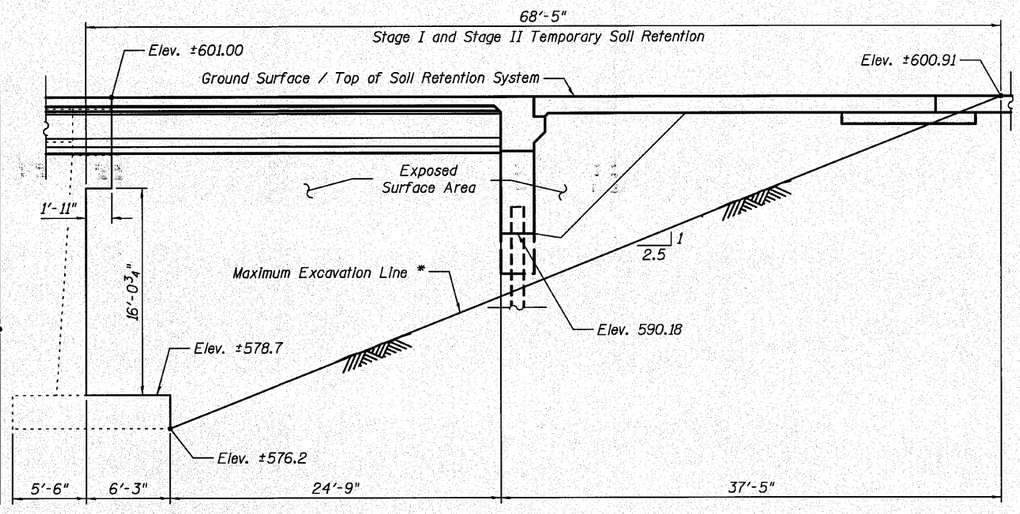
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 037-0176
SHEET NO. 2 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	23
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

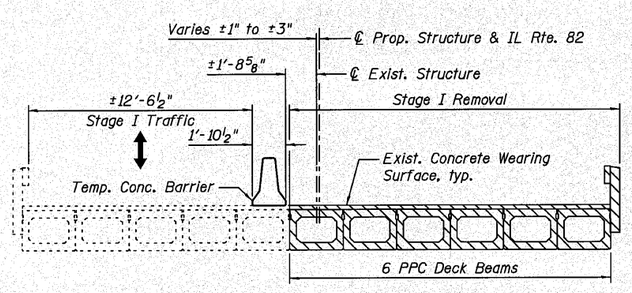


SOUTH ABUTMENT

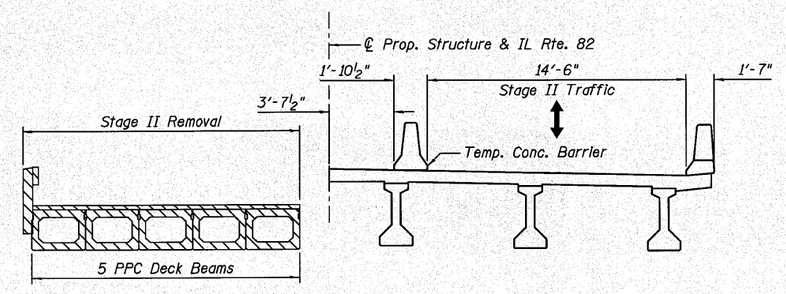


NORTH ABUTMENT

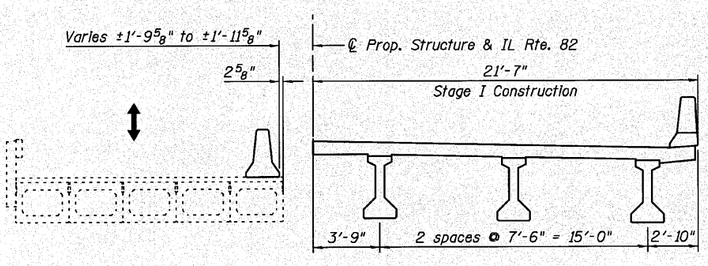
TEMPORARY SOIL RETENTION SYSTEM



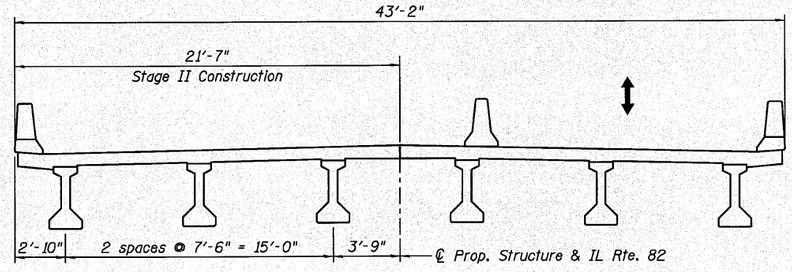
STAGE I REMOVAL



STAGE II REMOVAL



STAGE I CONSTRUCTION



STAGE II CONSTRUCTION

NOTES:

1. Hatched areas indicate removal of existing structure.
2. Location of Stage Construction lines is also applicable to substructure.
3. Both existing abutments shall be completely removed. The existing timber abutment piles shall remain.
4. See roadway plans for quantity of Temporary Concrete Barrier.
5. See sheet 4 of 29 for details of Temporary Concrete Barrier.
6. Removal of existing bridge railing, bituminous wearing surface, & precast concrete bridge approach beams is included with Removal of Existing Structures.
7. All staging cross sections are looking north.
8. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
9. Contractor shall take precaution to not expose piles adjacent to the stage removal line under the portion of pier to remain during stage I removal procedure.

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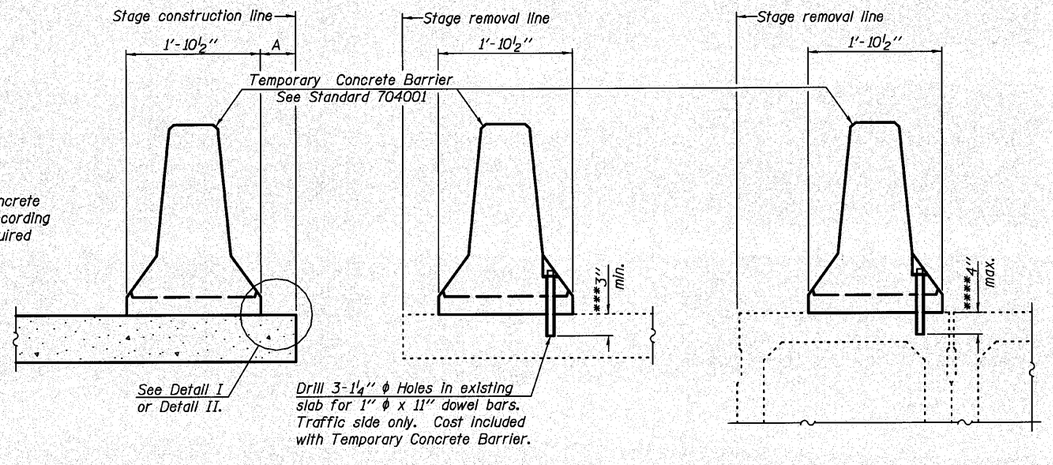
	CHECKED - BJM	REVISED -	
	DRAWN - JNH/MWS	REVISED -	
PLOT DATE = 11/22/2018	CHECKED - BRT	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 037-0176
SHEET NO. 3 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	24
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



NEW SLAB | EXISTING SLAB | EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel ℙ to the top layer of couplers with 2-⅝" ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

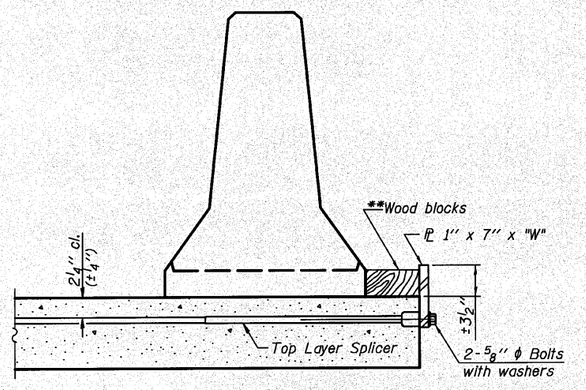
Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel ℙ to the concrete slab or concrete wearing surface with 2-⅝" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier.

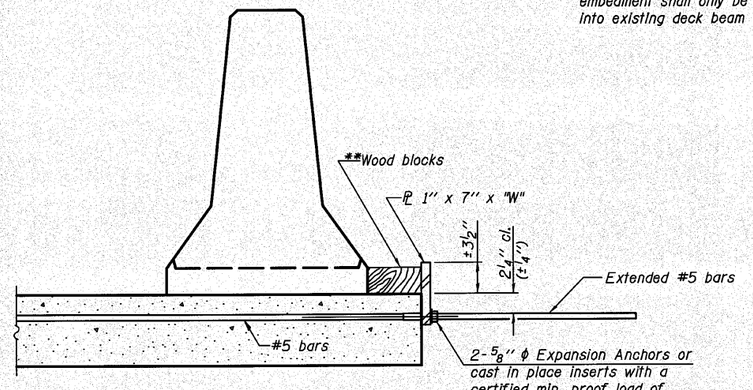
The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



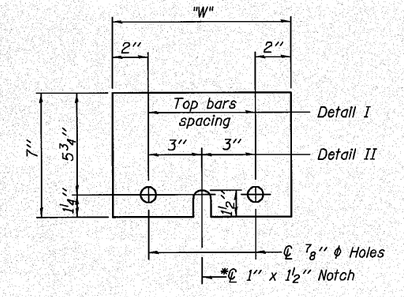
DETAIL I



DETAIL II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"



STEEL RETAINER ℙ 1" x 7" x "W"

* Required only with Detail II

7-1-10

	DESIGNED - GPM	REVISED -	
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	DRAWN - JNH/MWS	REVISED -	
PLOT DATE = 11/22/2010	CHECKED - BRT	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 037-0176
SHEET NO. 4 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	25
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

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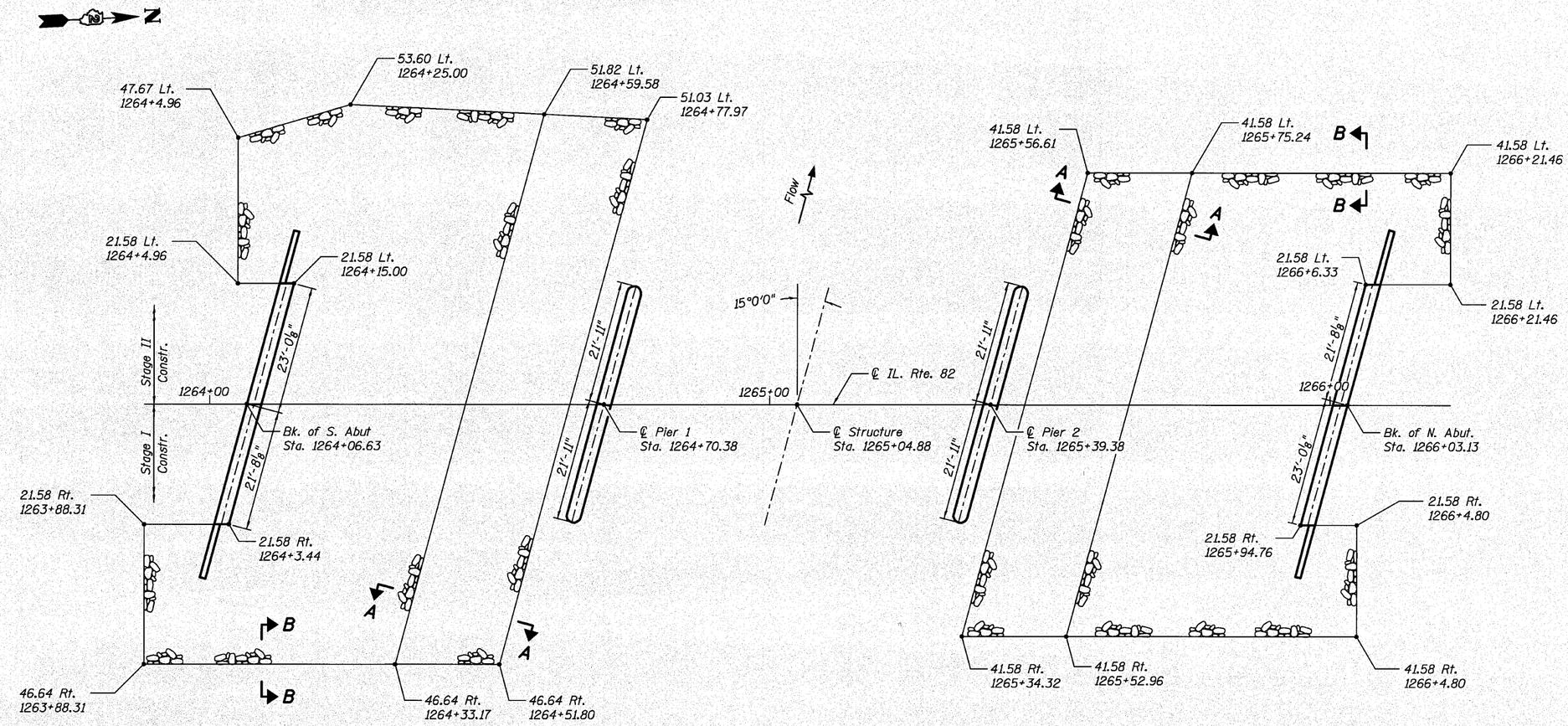
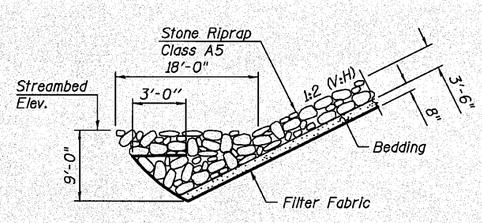
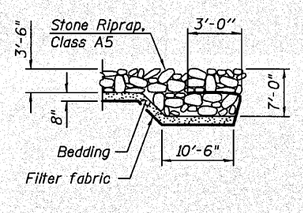


FOOTING AND RIPRAP LAYOUT



SECTION A-A



SECTION B-B

Wight	DESIGNED - JNH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSTRUCTURE LAYOUT STRUCTURE NO. 037-0176 SHEET NO. 5 OF 29 SHEETS	F.A.P. RTE. 638 · SECTION 129BR-4 · COUNTY HENRY · TOTAL SHEETS 93 · SHEET NO. 26
	CHECKED - BJM	REVISED -			CONTRACT NO. 64D25
	DRAWN - JNH/MWS	REVISED -			ILLINOIS FED. AID PROJECT
PLOT DATE = 11/22/2018	CHECKED - BJM	REVISED -			

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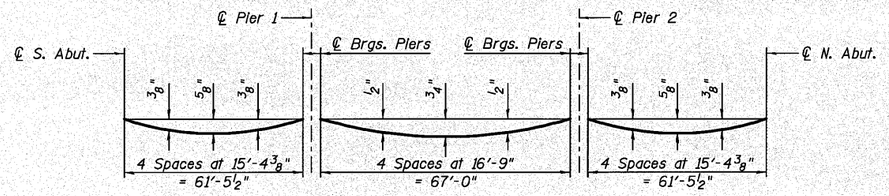
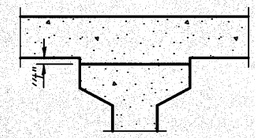


DEAD LOAD DEFLECTION DIAGRAM

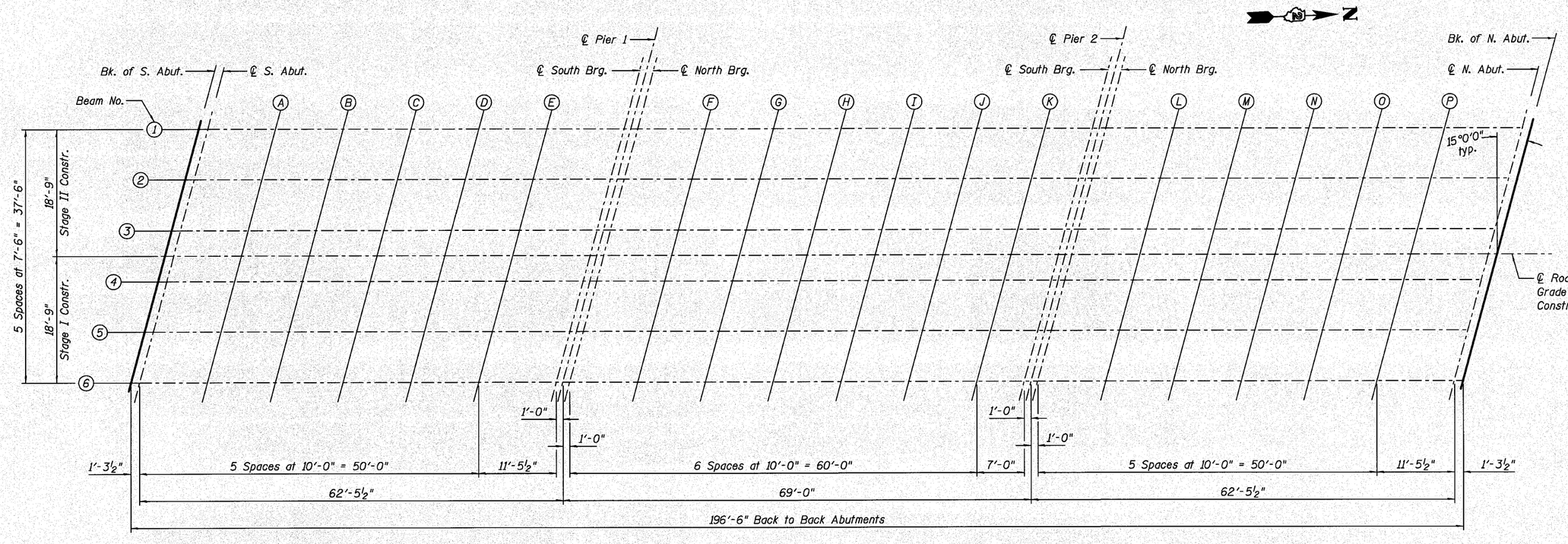
(Includes weight of concrete, excluding beams).

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 7 thru 9 of 29.



To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown on Sheets 7 thru 9 of 29, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS



PLAN

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 037-0176
SHEET NO. 6 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	1298R-4	HENRY	93	27
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1264+11.66	-18.75	600.78	600.78
℄ S. Abut.	1264+12.95	-18.75	600.78	600.78
A	1264+22.95	-18.75	600.78	600.81
B	1264+32.95	-18.75	600.79	600.83
C	1264+42.95	-18.75	600.80	600.84
D	1264+52.95	-18.75	600.80	600.84
E	1264+62.95	-18.75	600.81	600.84
℄ S. Brg. Pier 1	1264+74.41	-18.75	600.82	600.82
℄ Pier 1	1264+75.41	-18.75	600.82	600.82
℄ N. Brg. Pier 1	1264+76.41	-18.75	600.82	600.82
F	1264+86.41	-18.75	600.83	600.85
G	1264+96.41	-18.75	600.83	600.88
H	1265+06.41	-18.75	600.84	600.90
I	1265+16.41	-18.75	600.85	600.91
J	1265+26.41	-18.75	600.85	600.90
K	1265+36.41	-18.75	600.86	600.88
℄ S. Brg. Pier 2	1265+43.41	-18.75	600.86	600.86
℄ Pier 2	1265+44.41	-18.75	600.86	600.86
℄ N. Brg. Pier 2	1265+45.41	-18.75	600.86	600.86
L	1265+55.41	-18.75	600.85	600.87
M	1265+65.41	-18.75	600.84	600.88
N	1265+75.41	-18.75	600.82	600.87
O	1265+85.41	-18.75	600.80	600.84
P	1265+95.41	-18.75	600.77	600.79
℄ N. Abut.	1266+06.87	-18.75	600.72	600.72
Bk. N. Abut.	1266+08.15	-18.75	600.72	600.72

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1264+09.65	-11.25	600.93	600.93
℄ S. Abut.	1264+10.94	-11.25	600.93	600.93
A	1264+20.94	-11.25	600.94	600.96
B	1264+30.94	-11.25	600.94	600.98
C	1264+40.94	-11.25	600.95	600.99
D	1264+50.94	-11.25	600.96	601.00
E	1264+60.94	-11.25	600.96	600.99
℄ S. Brg. Pier 1	1264+72.40	-11.25	600.97	600.97
℄ Pier 1	1264+73.40	-11.25	600.97	600.97
℄ N. Brg. Pier 1	1264+74.40	-11.25	600.97	600.97
F	1264+84.40	-11.25	600.98	601.01
G	1264+94.40	-11.25	600.98	601.03
H	1265+04.40	-11.25	600.99	601.05
I	1265+14.40	-11.25	601.00	601.06
J	1265+24.40	-11.25	601.00	601.05
K	1265+34.40	-11.25	601.01	601.03
℄ S. Brg. Pier 2	1265+41.40	-11.25	601.01	601.01
℄ Pier 2	1265+42.40	-11.25	601.01	601.01
℄ N. Brg. Pier 2	1265+43.40	-11.25	601.01	601.01
L	1265+53.40	-11.25	601.01	601.03
M	1265+63.40	-11.25	601.00	601.04
N	1265+73.40	-11.25	600.98	601.02
O	1265+83.40	-11.25	600.96	601.00
P	1265+93.40	-11.25	600.93	600.95
℄ N. Abut.	1266+04.86	-11.25	600.89	600.89
Bk. N. Abut.	1266+06.15	-11.25	600.88	600.88

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1264+07.64	-3.75	601.04	601.04
℄ S. Abut.	1264+08.93	-3.75	601.04	601.04
A	1264+18.93	-3.75	601.05	601.07
B	1264+28.93	-3.75	601.06	601.10
C	1264+38.93	-3.75	601.06	601.11
D	1264+48.93	-3.75	601.07	601.11
E	1264+58.93	-3.75	601.08	601.10
℄ S. Brg. Pier 1	1264+70.39	-3.75	601.09	601.09
℄ Pier 1	1264+71.39	-3.75	601.09	601.09
℄ N. Brg. Pier 1	1264+72.39	-3.75	601.09	601.09
F	1264+82.39	-3.75	601.09	601.12
G	1264+92.39	-3.75	601.10	601.15
H	1265+02.39	-3.75	601.11	601.17
I	1265+12.39	-3.75	601.11	601.17
J	1265+22.39	-3.75	601.12	601.16
K	1265+32.39	-3.75	601.13	601.15
℄ S. Brg. Pier 2	1265+39.39	-3.75	601.13	601.13
℄ Pier 2	1265+40.39	-3.75	601.13	601.13
℄ N. Brg. Pier 2	1265+41.39	-3.75	601.13	601.13
L	1265+51.39	-3.75	601.12	601.15
M	1265+61.39	-3.75	601.12	601.16
N	1265+71.39	-3.75	601.10	601.15
O	1265+81.39	-3.75	601.08	601.12
P	1265+91.39	-3.75	601.05	601.07
℄ N. Abut.	1266+02.85	-3.75	601.01	601.01
Bk. N. Abut.	1266+04.14	-3.75	601.01	601.01

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PLOT DATE = 11/22/2018	CHECKED - BJM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 037-0176
SHEET NO. 7 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	28
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

℄ ROADWAY, PROFILE GRADE & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1264+06.63	0.00	601.10	601.10
℄ S. Abut.	1264+07.93	0.00	601.10	601.10
A	1264+17.93	0.00	601.11	601.13
B	1264+27.93	0.00	601.12	601.15
C	1264+37.93	0.00	601.12	601.17
D	1264+47.93	0.00	601.13	601.17
E	1264+57.93	0.00	601.14	601.16
℄ S. Brg. Pier 1	1264+69.38	0.00	601.14	601.14
℄ Pier 1	1264+70.38	0.00	601.14	601.14
℄ N. Brg. Pier 1	1264+71.38	0.00	601.14	601.14
F	1264+81.38	0.00	601.15	601.18
G	1264+91.38	0.00	601.16	601.21
H	1265+01.38	0.00	601.16	601.23
I	1265+11.38	0.00	601.17	601.23
J	1265+21.38	0.00	601.18	601.22
K	1265+31.38	0.00	601.18	601.20
℄ S. Brg. Pier 2	1265+38.38	0.00	601.19	601.19
℄ Pier 2	1265+39.38	0.00	601.19	601.19
℄ N. Brg. Pier 2	1265+40.38	0.00	601.19	601.19
L	1265+50.38	0.00	601.18	601.21
M	1265+60.38	0.00	601.18	601.22
N	1265+70.38	0.00	601.16	601.21
O	1265+80.38	0.00	601.14	601.18
P	1265+90.38	0.00	601.11	601.14
℄ N. Abut.	1266+01.84	0.00	601.07	601.07
Bk. N. Abut.	1266+03.13	0.00	601.07	601.07

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1264+05.63	3.75	601.04	601.04
℄ S. Abut.	1264+06.92	3.75	601.04	601.04
A	1264+16.92	3.75	601.05	601.07
B	1264+26.92	3.75	601.06	601.10
C	1264+36.92	3.75	601.06	601.11
D	1264+46.92	3.75	601.07	601.11
E	1264+56.92	3.75	601.08	601.10
℄ S. Brg. Pier 1	1264+68.38	3.75	601.08	601.08
℄ Pier 1	1264+69.38	3.75	601.08	601.08
℄ N. Brg. Pier 1	1264+70.38	3.75	601.09	601.09
F	1264+80.38	3.75	601.09	601.12
G	1264+90.38	3.75	601.10	601.15
H	1265+00.38	3.75	601.11	601.17
I	1265+10.38	3.75	601.11	601.17
J	1265+20.38	3.75	601.12	601.16
K	1265+30.38	3.75	601.13	601.14
℄ S. Brg. Pier 2	1265+37.38	3.75	601.13	601.13
℄ Pier 2	1265+38.38	3.75	601.13	601.13
℄ N. Brg. Pier 2	1265+39.38	3.75	601.13	601.13
L	1265+49.38	3.75	601.13	601.15
M	1265+59.38	3.75	601.12	601.16
N	1265+69.38	3.75	601.10	601.15
O	1265+79.38	3.75	601.08	601.12
P	1265+89.38	3.75	601.06	601.08
℄ N. Abut.	1266+00.84	3.75	601.02	601.02
Bk. N. Abut.	1266+02.13	3.75	601.01	601.01

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	DRAWN - MWS	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 037-0176
SHEET NO. 8 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	29
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1264+03.62	11.25	600.92	600.92
℄ S. Abut.	1264+04.91	11.25	600.93	600.93
A	1264+14.91	11.25	600.93	600.95
B	1264+24.91	11.25	600.94	600.98
C	1264+34.91	11.25	600.94	600.99
D	1264+44.91	11.25	600.95	600.99
E	1264+54.91	11.25	600.96	600.98
℄ S. Brg. Pier 1	1264+66.37	11.25	600.97	600.97
℄ Pier 1	1264+67.37	11.25	600.97	600.97
℄ N. Brg. Pier 1	1264+68.37	11.25	600.97	600.97
F	1264+78.37	11.25	600.97	601.00
G	1264+88.37	11.25	600.98	601.03
H	1264+98.37	11.25	600.99	601.05
I	1265+08.37	11.25	600.99	601.05
J	1265+18.37	11.25	601.00	601.04
K	1265+28.37	11.25	601.01	601.03
℄ S. Brg. Pier 2	1265+35.37	11.25	601.01	601.01
℄ Pier 2	1265+36.37	11.25	601.01	601.01
℄ N. Brg. Pier 2	1265+37.37	11.25	601.01	601.01
L	1265+47.37	11.25	601.01	601.03
M	1265+57.37	11.25	601.00	601.04
N	1265+67.37	11.25	600.99	601.03
O	1265+77.37	11.25	600.97	601.01
P	1265+87.37	11.25	600.94	600.97
℄ N. Abut.	1265+98.83	11.25	600.91	600.91
Bk. N. Abut.	1266+00.12	11.25	600.90	600.90

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1264+01.61	18.75	600.77	600.77
℄ S. Abut.	1264+02.90	18.75	600.77	600.77
A	1264+12.90	18.75	600.78	600.80
B	1264+22.90	18.75	600.78	600.82
C	1264+32.90	18.75	600.79	600.84
D	1264+42.90	18.75	600.80	600.84
E	1264+52.90	18.75	600.80	600.83
℄ S. Brg. Pier 1	1264+64.36	18.75	600.81	600.81
℄ Pier 1	1264+65.36	18.75	600.81	600.81
℄ N. Brg. Pier 1	1264+66.36	18.75	600.81	600.81
F	1264+76.36	18.75	600.82	600.85
G	1264+86.36	18.75	600.83	600.88
H	1264+96.36	18.75	600.83	600.89
I	1265+06.36	18.75	600.84	600.90
J	1265+16.36	18.75	600.85	600.89
K	1265+26.36	18.75	600.85	600.87
℄ S. Brg. Pier 2	1265+33.36	18.75	600.86	600.86
℄ Pier 2	1265+34.36	18.75	600.86	600.86
℄ N. Brg. Pier 2	1265+35.36	18.75	600.86	600.86
L	1265+45.36	18.75	600.86	600.88
M	1265+55.36	18.75	600.85	600.89
N	1265+65.36	18.75	600.84	600.89
O	1265+75.36	18.75	600.82	600.86
P	1265+85.36	18.75	600.80	600.82
℄ N. Abut.	1265+96.82	18.75	600.76	600.76
Bk. N. Abut.	1265+98.11	18.75	600.76	600.76

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Wight

DESIGNED - MWS	REVISED -	
CHECKED - JNH	REVISED -	
DRAWN - MWS	REVISED -	
PLOT DATE = 11/22/2018	CHECKED - BJM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 037-0176
SHEET NO. 9 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	30
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		

WEST EDGE OF SHOULDER

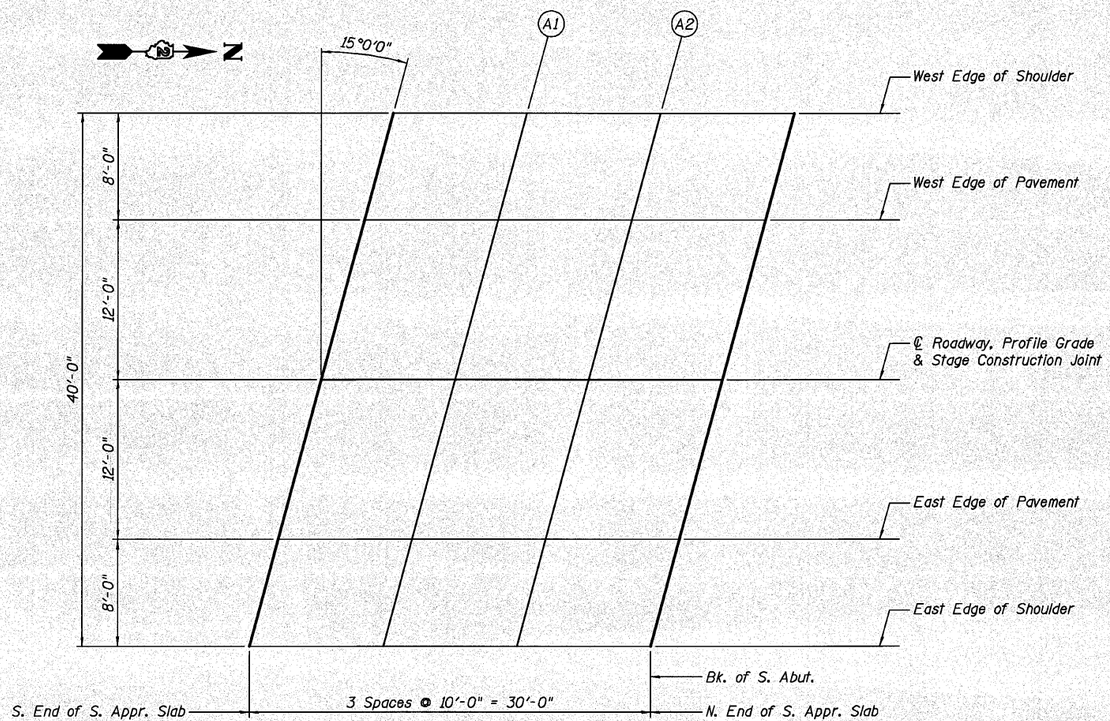
Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	1263+81.99	-20.00	600.73
A1	1263+91.99	-20.00	600.74
A2	1264+01.99	-20.00	600.74
N. End of S. Appr. Slab	1264+11.99	-20.00	600.75

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	1263+79.85	-12.00	600.90
A1	1263+89.85	-12.00	600.90
A2	1263+99.85	-12.00	600.91
N. End of S. Appr. Slab	1264+09.85	-12.00	600.92

℄ ROADWAY, PROFILE GRADE & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	1263+76.63	0.00	601.08
A1	1263+86.63	0.00	601.09
A2	1263+96.63	0.00	601.09
N. End of S. Appr. Slab	1264+06.63	0.00	601.10



PLAN

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	1263+73.42	12.00	600.89
A1	1263+83.42	12.00	600.90
A2	1263+93.42	12.00	600.90
N. End of S. Appr. Slab	1264+03.42	12.00	600.91

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Slab	1263+71.27	20.00	600.72
A1	1263+81.27	20.00	600.73
A2	1263+91.27	20.00	600.74
N. End of S. Appr. Slab	1264+01.27	20.00	600.74

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Wight

	DESIGNED - MWS	REVISED -	
	CHECKED - BJM	REVISED -	
	DRAWN - MWS	REVISED -	
PLOT DATE = 11/22/2010	CHECKED - BJM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 037-0176
SHEET NO. 10 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	31
		CONTRACT NO. 64D25		
	ILLINOIS	FED. AID PROJECT		

WEST EDGE OF SHOULDER

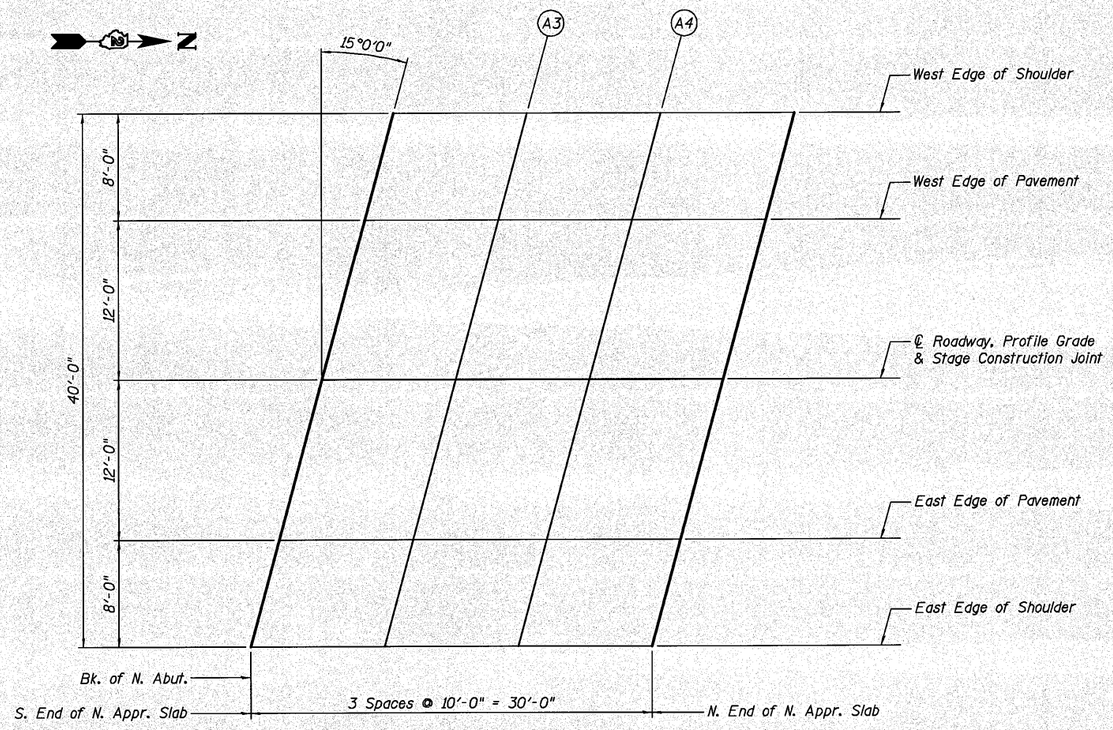
Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	1266+08.49	-20.00	600.69
A3	1266+18.49	-20.00	600.65
A4	1266+28.49	-20.00	600.60
N. End of N. Appr. Slab	1266+38.49	-20.00	600.54

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	1266+06.35	-12.00	600.87
A3	1266+16.35	-12.00	600.82
A4	1266+26.35	-12.00	600.78
N. End of N. Appr. Slab	1266+36.35	-12.00	600.72

℄ ROADWAY, PROFILE GRADE & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	1266+03.13	0.00	601.07
A3	1266+13.13	0.00	601.03
A4	1266+23.13	0.00	600.98
N. End of N. Appr. Slab	1266+33.13	0.00	600.93



PLAN

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	1265+99.92	12.00	600.89
A3	1266+09.92	12.00	600.85
A4	1266+19.92	12.00	600.81
N. End of N. Appr. Slab	1266+29.92	12.00	600.76

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Slab	1265+97.77	20.00	600.73
A3	1266+07.77	20.00	600.70
A4	1266+17.77	20.00	600.65
N. End of N. Appr. Slab	1266+27.77	20.00	600.60

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Wight

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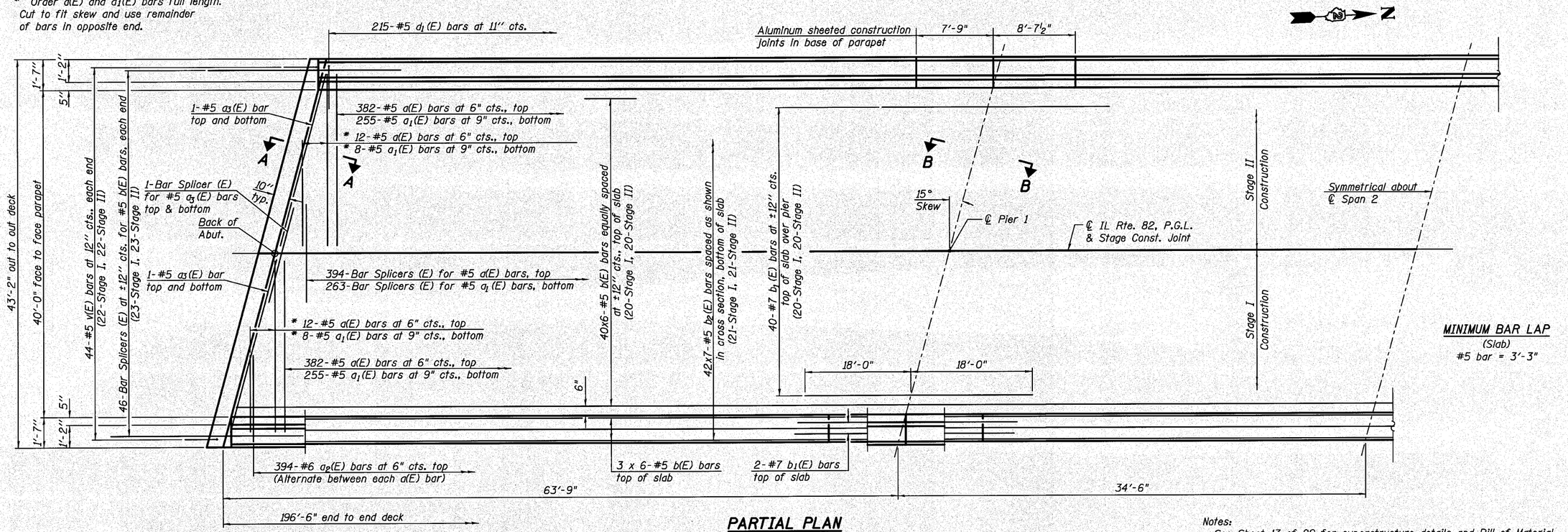
	CHECKED - BJM	REVISED -	
	DRAWN - MWS	REVISED -	
PLOT DATE = 11/22/2010	CHECKED - BJM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 037-0176
SHEET NO. 11 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	32
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		

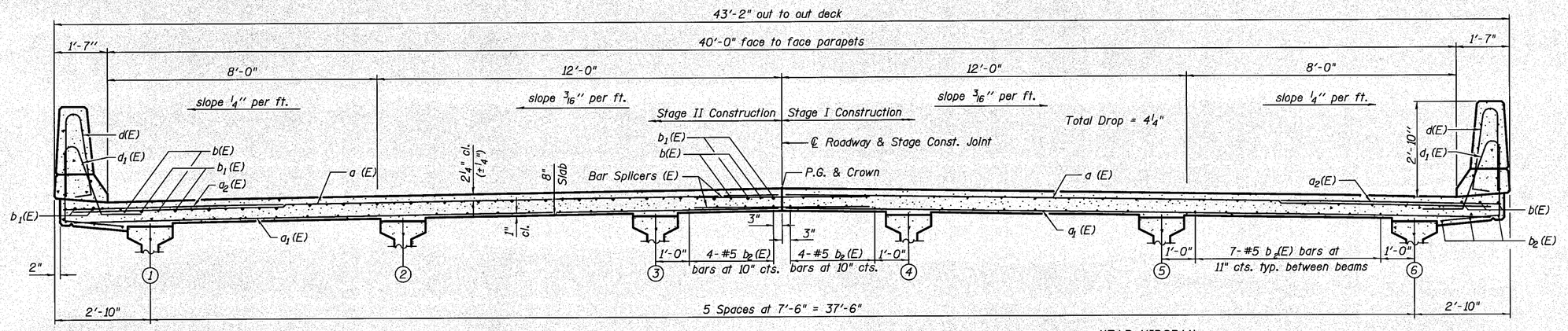
* Order a(E) and a_1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.



PARTIAL PLAN

MINIMUM BAR LAP
(Slab)
#5 bar = 3'-3"

Notes:
See Sheet 13 of 29 for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
See Sheet 13 of 29 for parapet reinforcement.
See Sheet 16 of 29 for A-A & B-B.



NEAR PIER **NEAR MIDSPAN**

CROSS SECTION
(Looking North)

Wight	DESIGNED - JNH	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	CHECKED - BJM	REVISED -	**SUPERSTRUCTURE**
	DRAWN - JNH	REVISED -	**STRUCTURE NO. 037-0176**
PLOT DATE = 11/22/2010	CHECKED - BJM	REVISED -	SHEET NO. 12 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	33
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		

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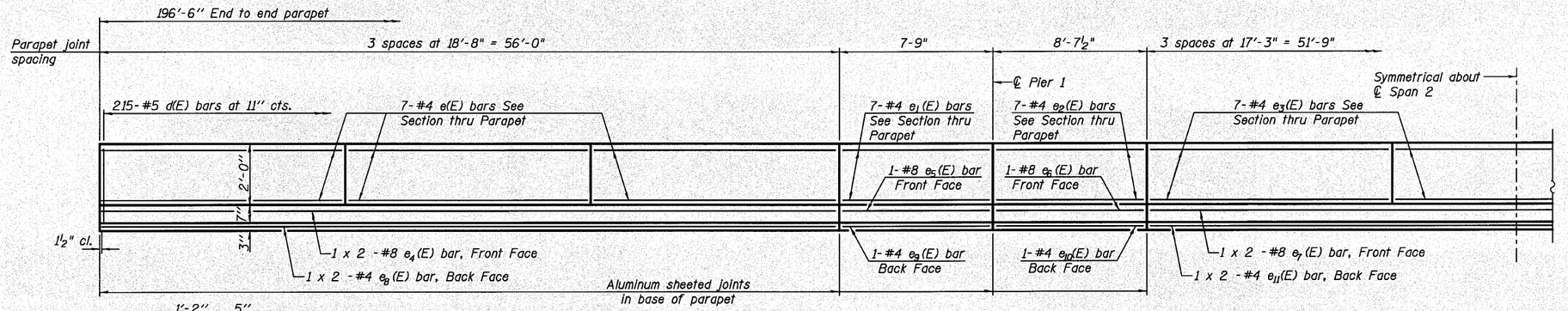
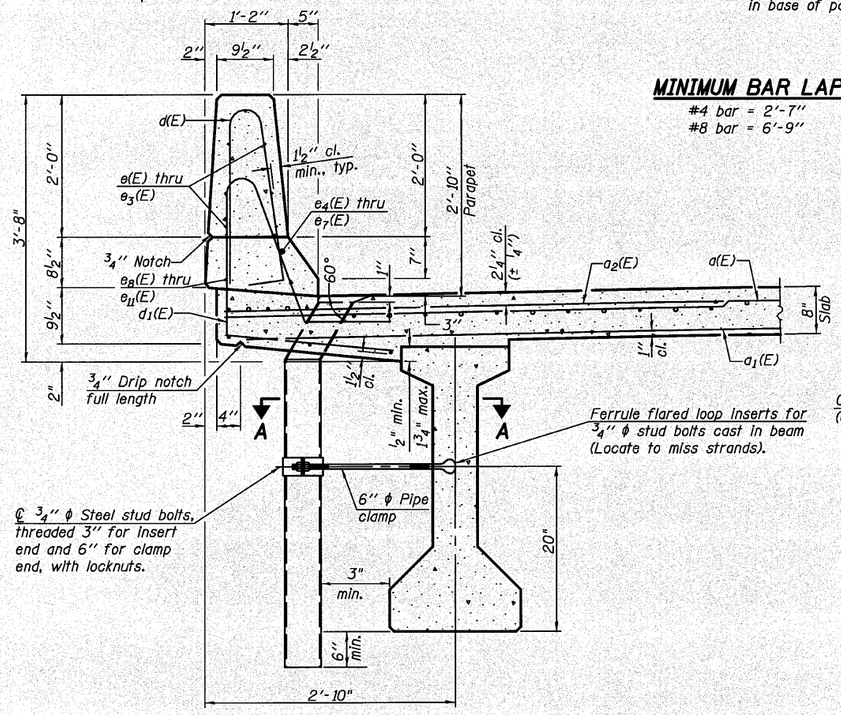


INSIDE ELEVATION OF PARAPET

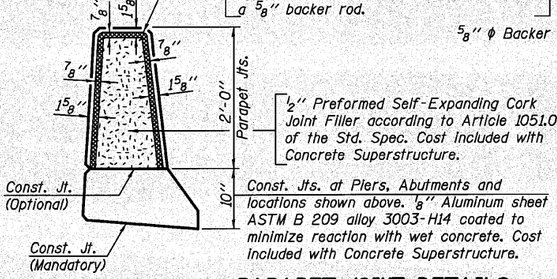
MINIMUM BAR LAP

#4 bar = 2'-7"
#8 bar = 6'-9"

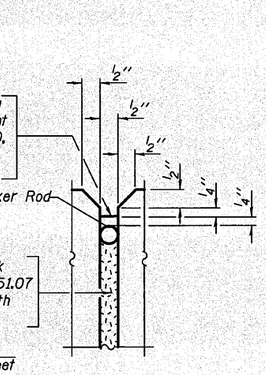


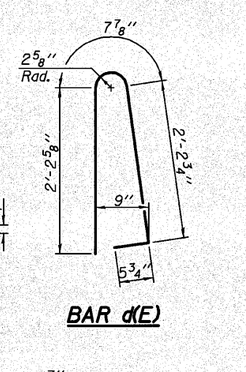
SECTION THRU PARAPET

**For insert locations See sheet 18 of 29.

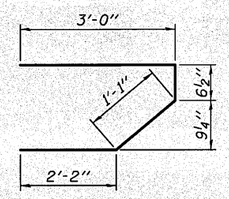


PARAPET JOINT DETAILS

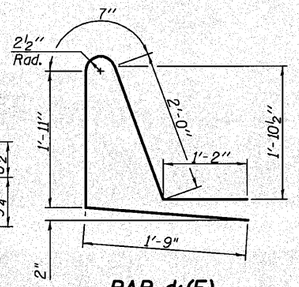




BAR d(E)

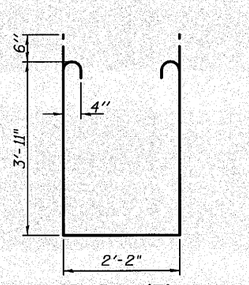


BAR s(E)

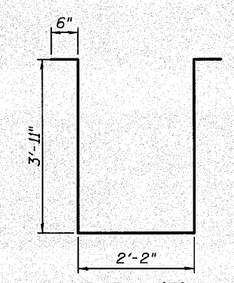


BAR d1(E)

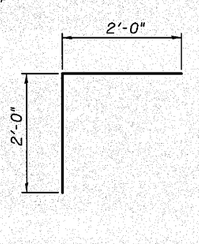
Notes:
Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
The exterior surfaces of the floor drains shall be coated or pigmented by the manufacturer with a color that matches the concrete.
The clamping device and inserts shall be galvanized according to AASHTO M 232. Cost of clamping device and galvanizing included with Floor Drains.



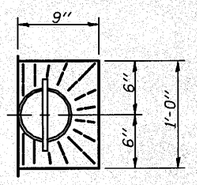
BAR s1(E)



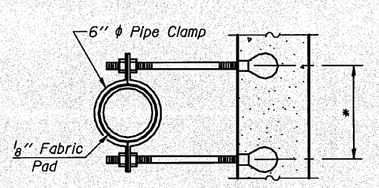
BAR s2(E)



BAR v(E)

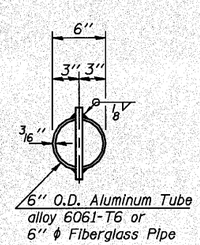


TOP PLAN



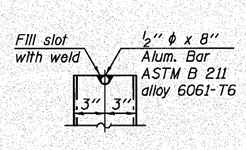
SECTION A-A

*Dimension as required by Pipe Clamp

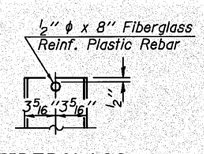


TOP PLAN

(Showing Aluminum Tube)



ALUMINUM TUBE



FIBERGLASS PIPE

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	788	#5	21'-3"	
d1(E)	526	#5	20'-5"	
d2(E)	788	#6	6'-6"	
d3(E)	8	#5	21'-11"	
b(E)	276	#5	35'-5"	
b1(E)	88	#7	36'-0"	
b2(E)	294	#5	30'-10"	
d(E)	430	#5	5'-7"	
d1(E)	430	#5	7'-5"	
e(E)	84	#4	18'-4"	
e1(E)	28	#4	7'-5"	
e2(E)	28	#4	8'-3"	
e3(E)	42	#4	16'-11"	
e4(E)	8	#8	31'-3"	
e5(E)	4	#8	7'-5"	
e6(E)	4	#8	8'-3"	
e7(E)	4	#8	29'-2"	
e8(E)	8	#4	29'-2"	
e9(E)	4	#4	7'-5"	
e10(E)	4	#4	8'-3"	
e11(E)	4	#4	27'-1"	
m(E)	20	#6	22'-2"	
m1(E)	24	#6	10'-10"	
m2(E)	24	#6	5'-9"	
m3(E)	4	#6	1'-9"	
m4(E)	32	#4	7'-1"	
m5(E)	12	#8	5'-11"	
m6(E)	12	#6	2'-9"	
m7(E)	16	#4	3'-4"	
s(E)	84	#5	6-10"	
s1(E)	60	#4	11'-0"	
s2(E)	60	#4	11'-0"	
v(E)	88	#5	4'-0"	
Floor Drains		Each	24	
Concrete Superstructure		Cu. Yd.	316	
Bridge Deck Grooving		Sq. Yd.	830	
Protective Coat		Sq. Yd.	1040	
Reinforcement Bars, Epoxy Coated		Pounds	75370	
Bar Splicers		Each	781	

Bars indicated thus 1 x 2-#5 etc. indicates 1 line of bars with 2 lengths per line.

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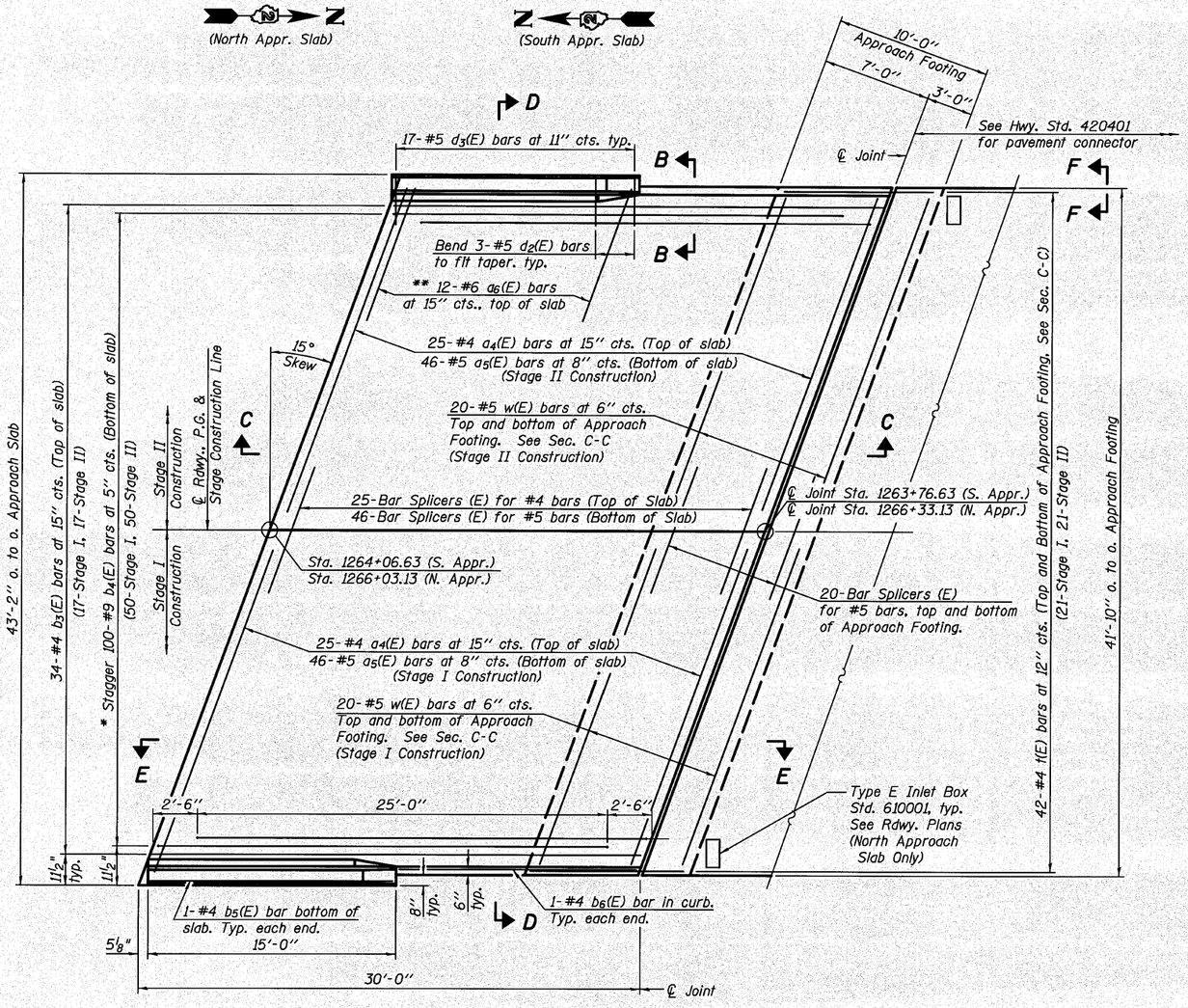
Wight

	DESIGNED - JNH	REVISED -	
	CHECKED - BJM	REVISED -	
	DRAWN - JNH	REVISED -	
PLOT DATE = 11/22/2018	CHECKED - BJM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 037-0176
SHEET NO. 13 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	34
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

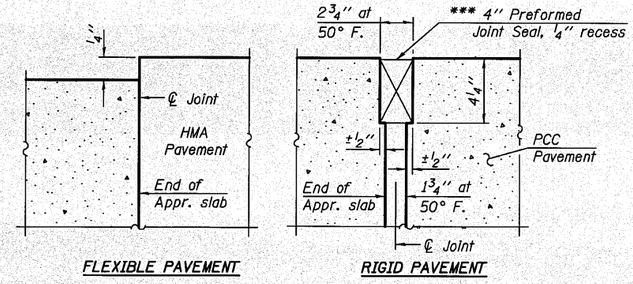


PLAN

* Tilt #9 $b_4(E)$ bars as required to maintain clearance.
** Space between $a_4(E)$ bars, typ. each parapet.

Notes:
See sheet 15 of 29 for Sections C-C & D-D and View E-E.
$a_4(E)$ and $a_5(E)$ bar spacings measured along ℄ Rdwy.

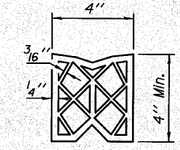
*** Cost included with Concrete Superstructure.



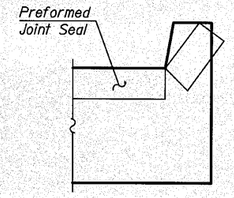
FLEXIBLE PAVEMENT

RIGID PAVEMENT

DETAIL A

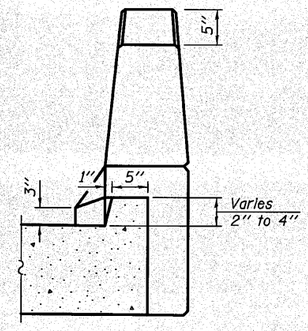


PREFORMED JOINT SEAL



VIEW F-F

Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.



VIEW B-B

Wight		DESIGNED - MWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - BJM	REVISED -	
		DRAWN - MWS	REVISED -	
	PLOT DATE = 11/22/2018	CHECKED - BJM	REVISED -	

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 037-0176
SHEET NO. 14 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	35
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		

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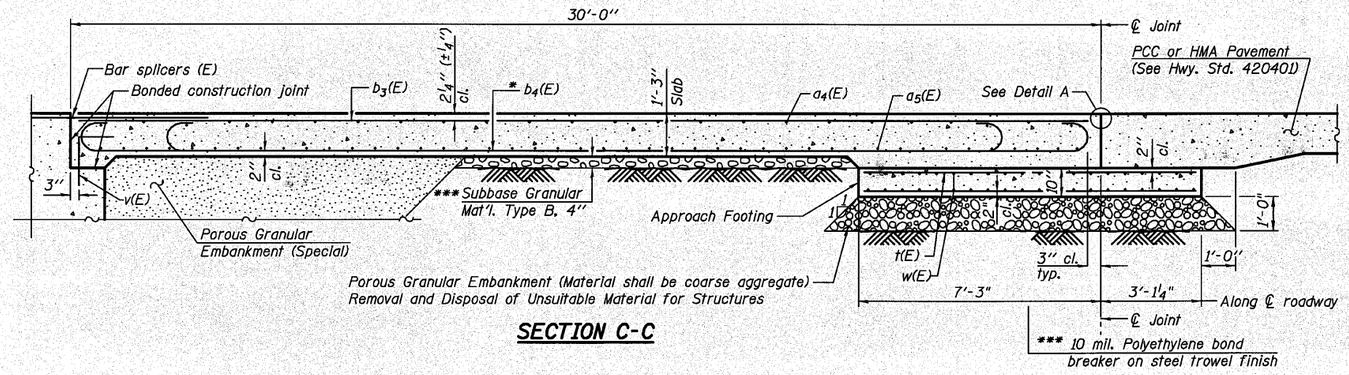
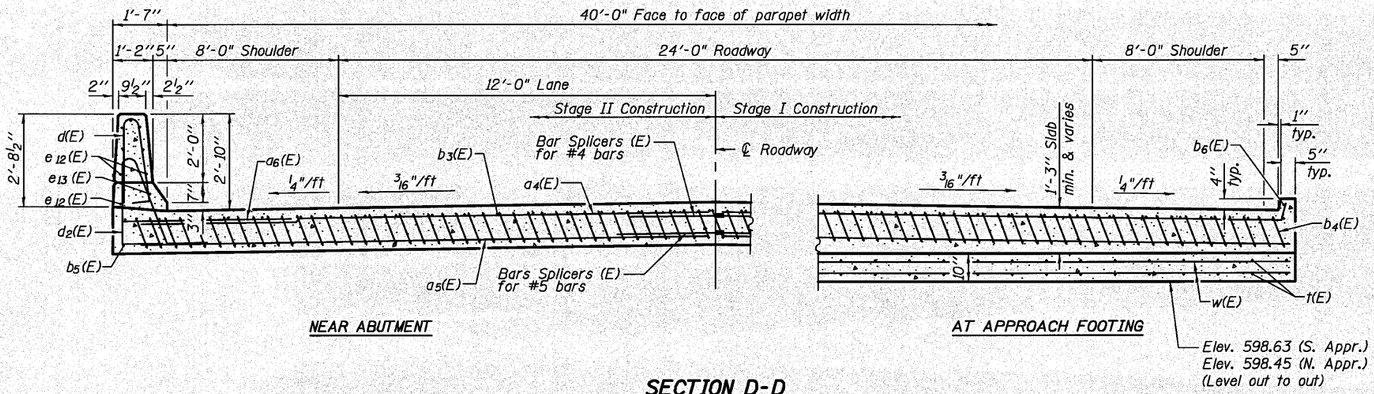
Notes:
See sheet 14 of 29 for Detail A and View B-B.
Approach Slab and Parapet concrete shall be paid for as Concrete Superstructure.
Approach Footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
For v(E) bar details, see sheet 13 of 29.
The Approach Footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
For Bar Splicer details, see sheet 27 of 29.
Cost of excavation for Approach Footing included with Concrete Structures.
For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 29.
For additional parapet details, see sheet 13 of 29.



SECTION C-C

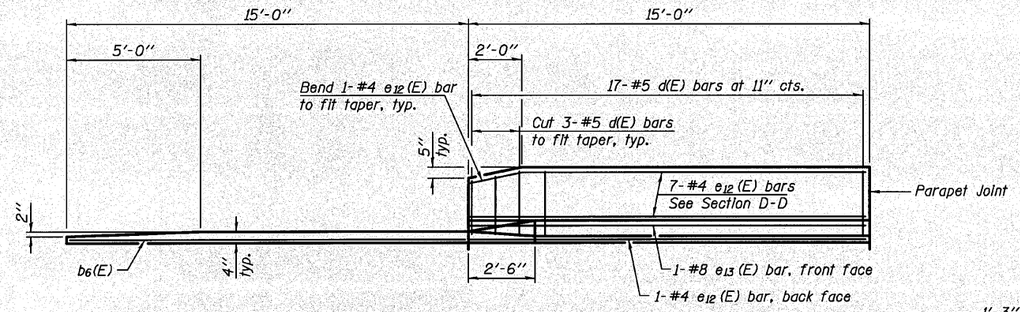


NEAR ABUTMENT

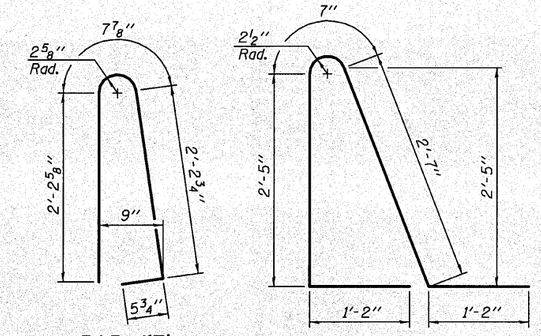
AT APPROACH FOOTING

SECTION D-D

(See Plan for dimensions not shown)



VIEW E-E

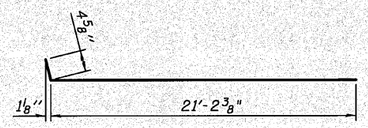


BAR d(E)

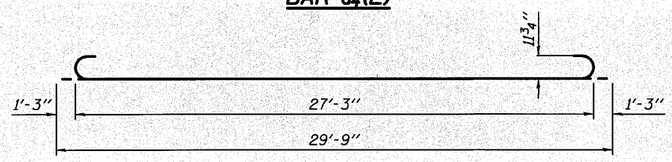
BAR d2(E)

* Tllt #9 b4(E) bars as required to maintain clearance.

*** Cost included with Concrete Superstructure.



BAR a4(E)



BAR b4(E)

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a4(E)	100	#4	21'-7"	
a5(E)	184	#5	21'-3"	
a6(E)	48	#6	6'-6"	
b3(E)	68	#4	29'-8"	
b4(E)	200	#9	29'-9"	
b5(E)	4	#4	14'-8"	
b6(E)	4	#4	14'-10"	
d(E)	68	#5	5'-7"	
d2(E)	68	#5	7'-11"	
e12(E)	32	#4	14'-8"	
e13(E)	4	#8	14'-8"	
t(E)	168	#4	10'-0"	
w(E)	160	#5	21'-4"	
Porous Granular Embankment		Cu. Yd.	37	
Removal and Disposal of Unsuitable Material for Structures		Cu. Yd.	37	
Concrete Structures		Cu. Yd.	26.7	
Concrete Superstructure		Cu. Yd.	130.0	
Bridge Deck Grooving		Sq. Yd.	256	
Protective Coat		Sq. Yd.	290	
Reinforcement Bars, Epoxy Coated		Pound	33750	
Bar Splicers		Each	222	

	DESIGNED - MWS	REVISED -	
	CHECKED - BJM	REVISED -	
	DRAWN - MWS	REVISED -	
PLOT DATE = 11/22/2010	CHECKED - BJM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 037-0176
SHEET NO. 15 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	36
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		

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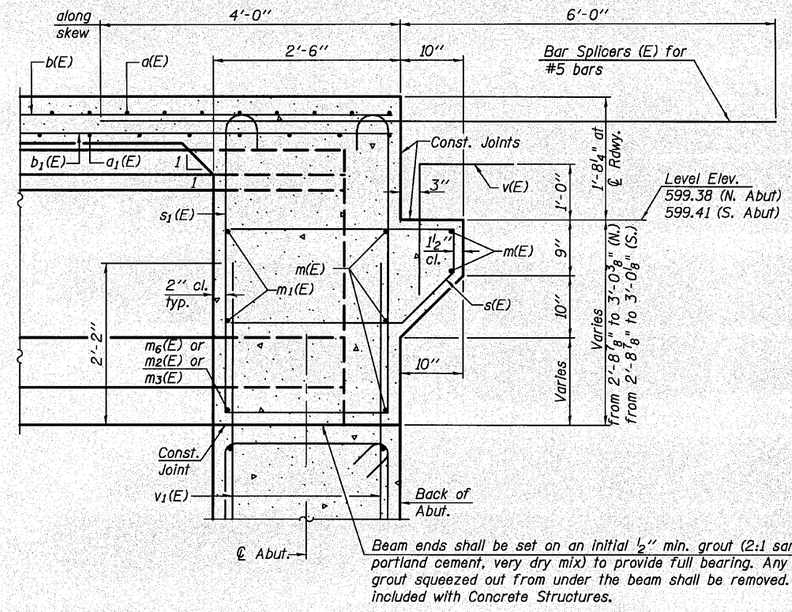
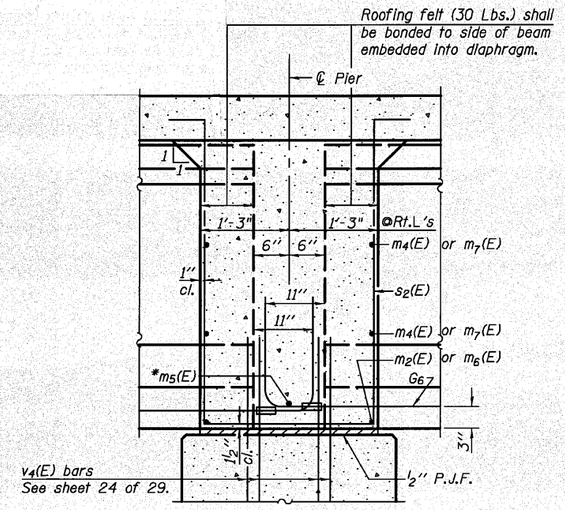


SECTION A-A

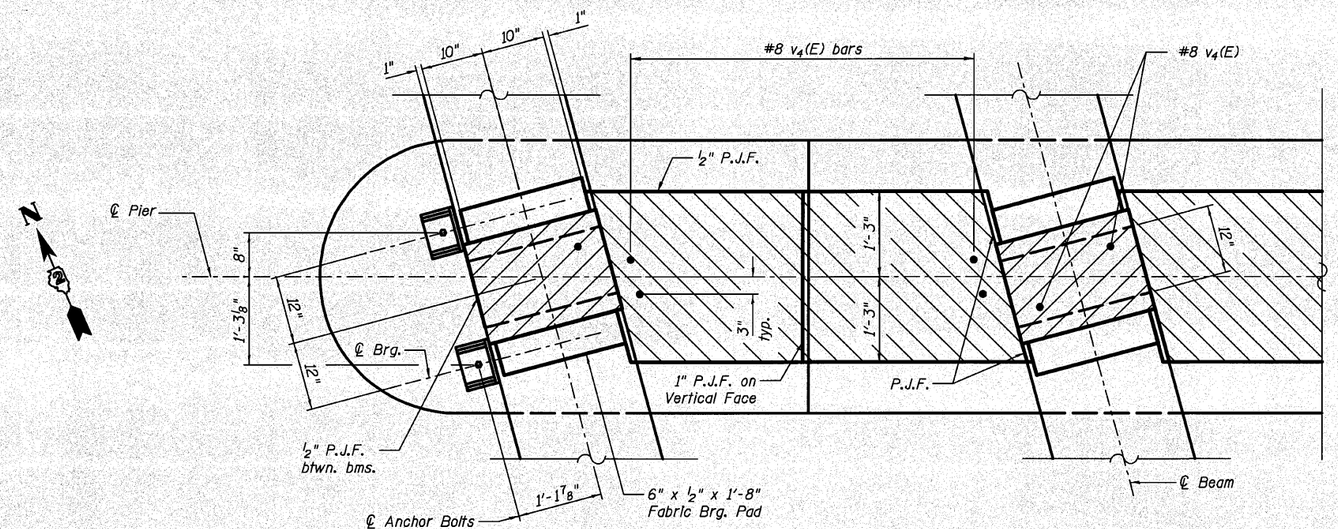
Dimensions at right angles to abutment, except as shown.
See sheet 13 of 29 for $s_1(E)$ details.



SECTION B-B

Dimensions along ℄ of beam, except as shown.

* Tightly fasten the #8 bars together with No. 9 wire ties.



PLAN AT PIER

(Showing bearing pad and P.J.F. details)

Note: See sheet 17 of 29 for location of Sections A-A and B-B.

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Wight

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	CHECKED - BJM	REVISED -	
	DRAWN - JNH/MWS	REVISED -	
PLOT DATE = 11/22/2018	CHECKED - BRT	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
STRUCTURE NO. 037-0176
SHEET NO. 16 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	37
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		

Notes:

Reinforcement bars in diaphragm are billed with superstructure on sheet 13 of 29.

Concrete in diaphragm is included with Concrete Superstructure on sheet 13 of 29.

For details of bars s(E) and s_1(E) see sheet 13 of 29.

For details of bars s_2(E), see sheet 13 of 29.

The s(E), s_1(E) and s_2(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

See sheet 16 of 29 for Sections A-A and B-B.

Cost of 30 Lb. roofing felt is included with Concrete Superstructure.

The side retainer shall be galvanized after shop fabrication according to AASHTO M 111.

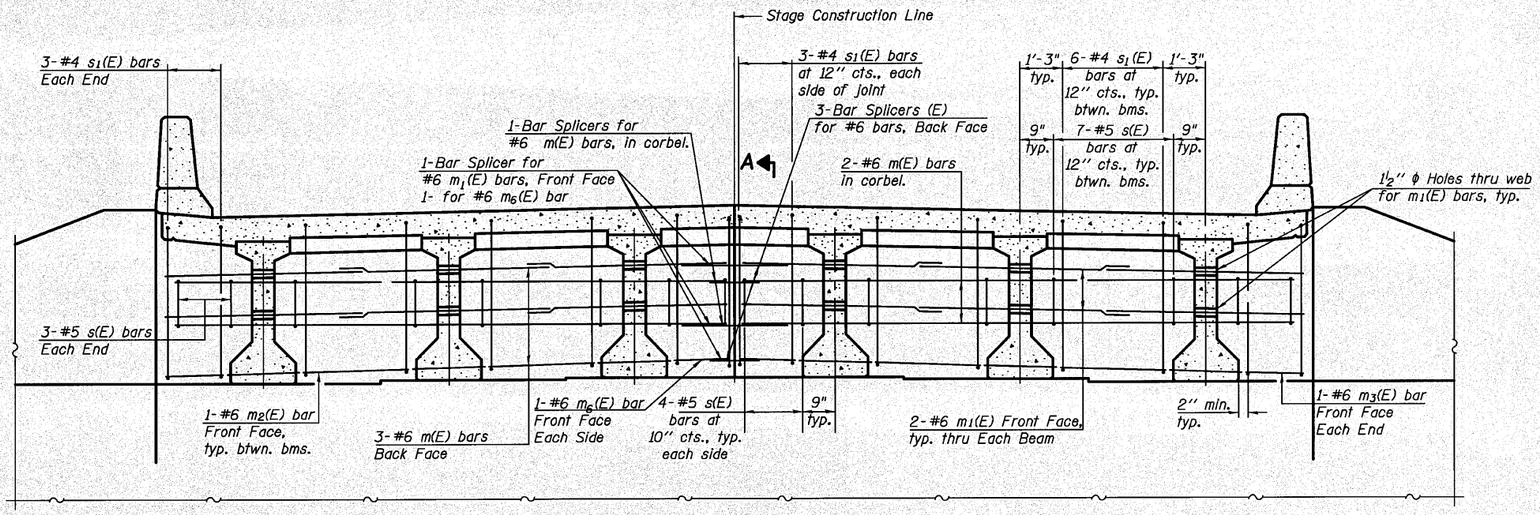
Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

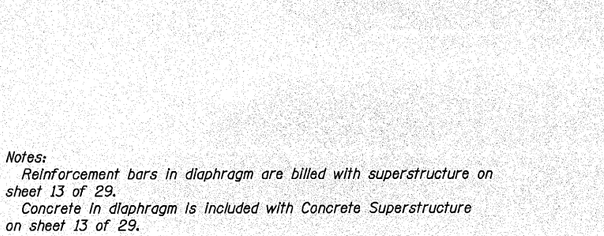
Anchor bolts for side retainers may be either cast in place or installed in holes drilled after the supporting member is in place and prior to pouring the deck.

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

Cost of side retainer and anchor bolts shall be included with Concrete Structures.



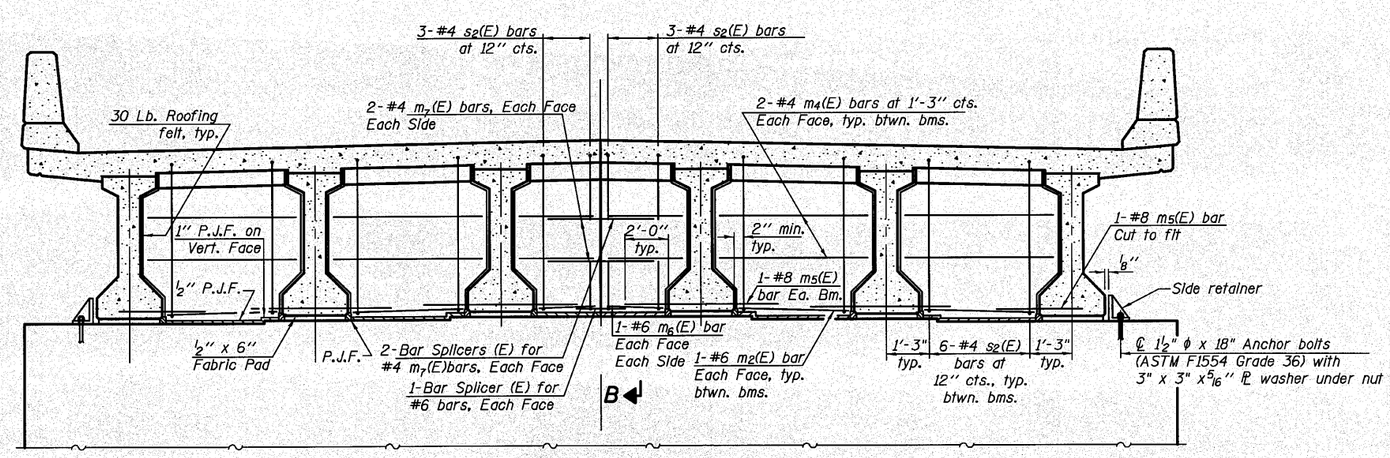
DIAPHRAGM ELEVATION AT ABUTMENT



SIDE RETAINER

(2 required each side of pier). Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

B



DIAPHRAGM AT PIER

Wight	DESIGNED - GPM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED - BJM	REVISED -	DIAPHRAGM DETAILS STRUCTURE NO. 037-0176
	DRAWN - JNH/MWS	REVISED -	SHEET NO. 17 OF 29 SHEETS
PLOT DATE = 11/22/2010	CHECKED - BRT	REVISED -	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	38
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

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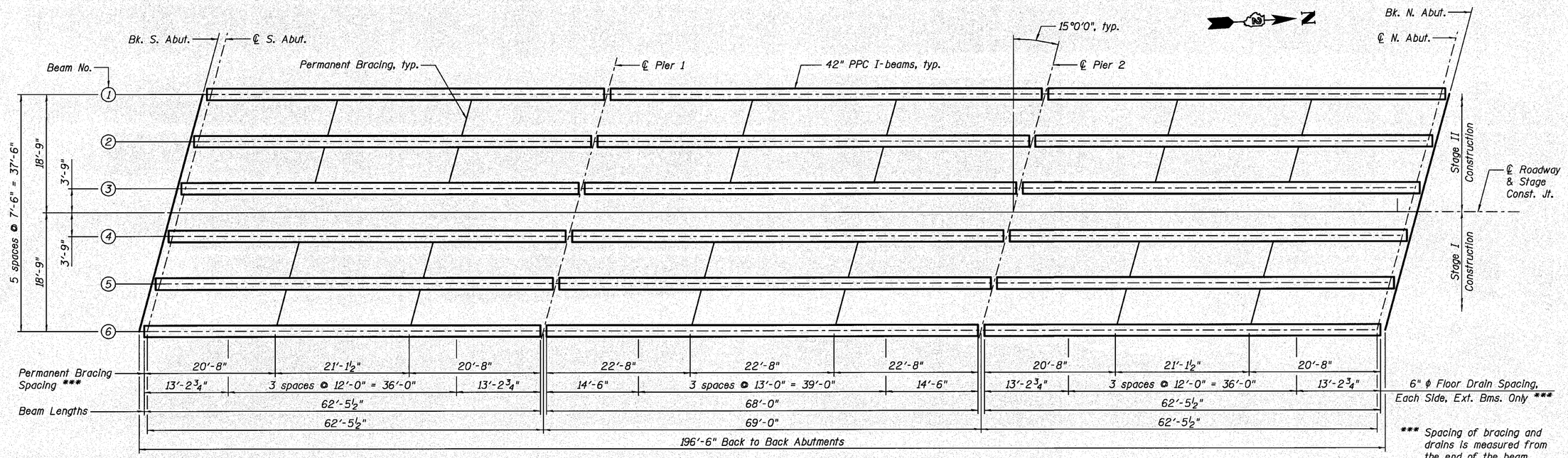
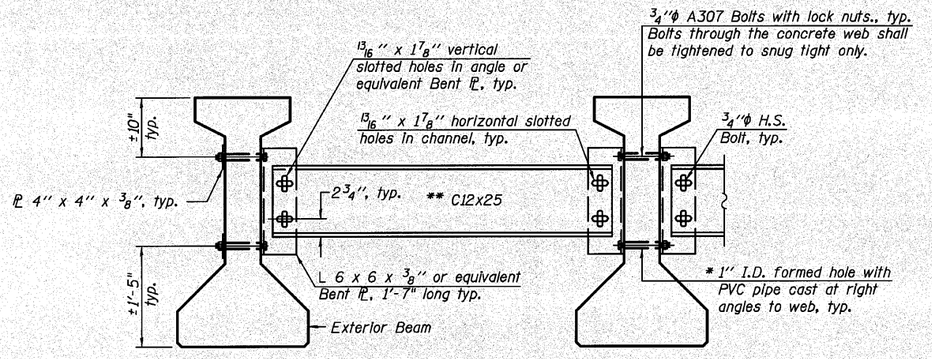


*** Spacing of bracing and drains is measured from the end of the beam along the ℄ beam.

FRAMING PLAN



Notes:

All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.

Two hardened washers are required for each set of oversized holes.

All holes shall be 15/16" ϕ unless otherwise noted.

5/16" x 3" x 3" plate washers are required over all slotted holes.

All bolts shall be galvanized according to AASHTO M232.

Bracing shall be installed as beams are erected and tightened as soon as possible during erection.

Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete I-Beams, 42".

* Fabricator shall locate to miss strands within permissible tolerances.

** Alternate C12x30 channels are permitted to facilitate material acquisition.

PERMANENT BRACING DETAILS FOR 42" PPC I-BEAMS

INTERIOR BEAM MOMENT TABLE				
		0.4 Sp. 1 0.6 Sp. 3	Pier 1 or 2	0.5 Sp. 2
I	(in^4)	90,956	-	90,956
I'	(in^4)	288,890	-	288,890
S_b	(in^3)	5,153	-	5,153
S_b'	(in^3)	8,897	-	8,897
S_t	(in^3)	3,735	-	3,735
S_t'	(in^3)	30,314	-	30,314
DC1	(k/')	1.25	-	1.25
M_{DC1}	('k)	566	-	702
DC2	(k/')	0.15	0.15	0.15
M_{DC2}	('k)	44	66	25
DW	(k/')	0.33	0.33	0.33
M_{DW}	('k)	99	145	55
M_{L+IM}	('k)	772	749	713

INTERIOR BEAM REACTION TABLE				
		Abut.	Pier 1 Span 1 Pier 2 Span 3	Pier 1 Span 2 Pier 2 Span 2
R_{DC1}	(k)	38.5	38.5	41.9
* R_{DC2}	(k)	3.7	10.5	10.9
* R_{DW}	(k)	8.1	24.2	24.2
* R_{L+IM}	(k)	71.8	132.1	132.1
R_{Total}	(k)	122.1	205.3	209.1

* The total R_{DC2}, R_{DW} and R_{L+IM} are assumed to be distributed evenly to each bearing line at a pier regardless of the span ratios. The bearing design at a pier is based on the maximum reactions of either span.

I: Non-composite moment of inertia of beam section ($in.^4$).
I': Composite moment of inertia of beam section ($in.^4$).
S_b: Non-composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).
S_b': Composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).
S_t: Non-composite section modulus for the top fiber of the prestressed beam ($in.^3$).
S_t': Composite section modulus for the top fiber of the prestressed beam ($in.^3$).
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.).

Wight

	DESIGNED - GPM	REVISED -
	CHECKED - BJM	REVISED -
	DRAWN - GPM	REVISED -
PLOT DATE = 11/22/2018	CHECKED - BJM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN
STRUCTURE NO. 037-0176
SHEET NO. 18 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	39
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

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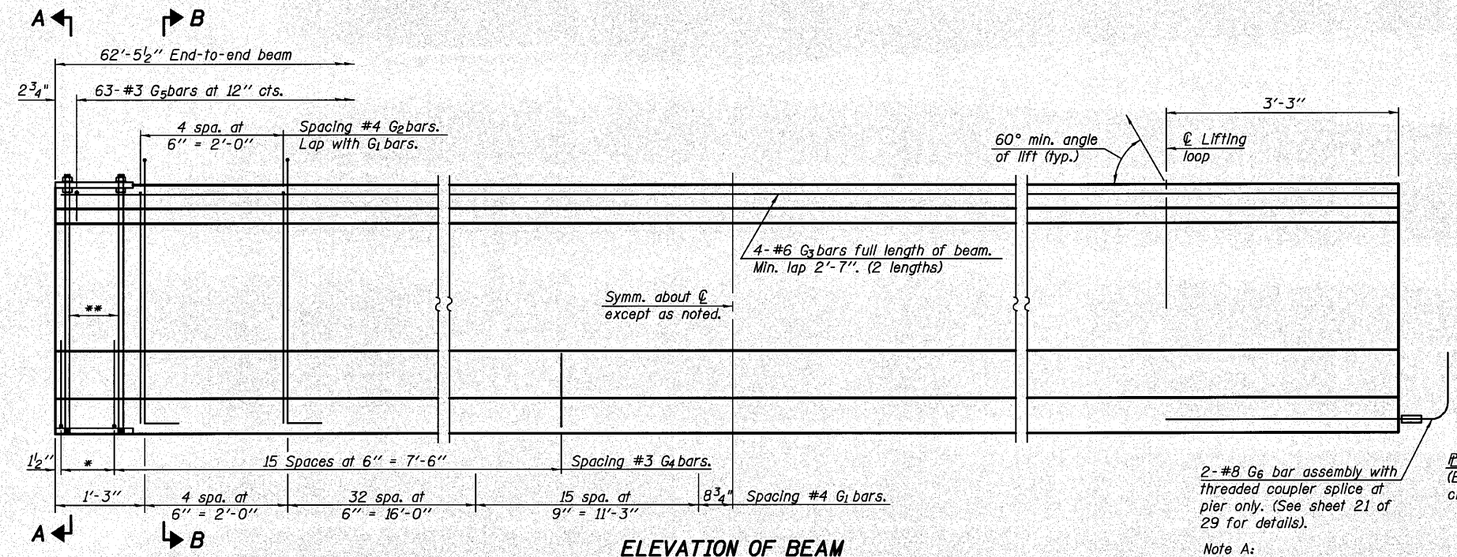
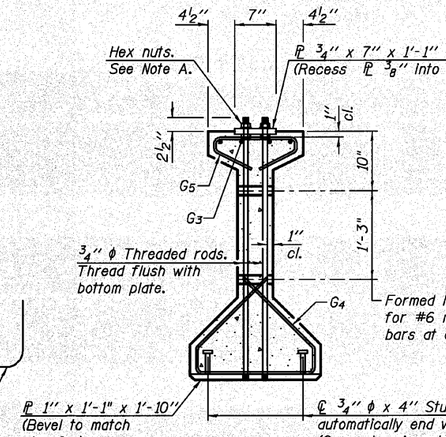


*3 spaces at 3" = 9".
**4-¾" ϕ threaded dowel rods at 3" cts., Each Face.

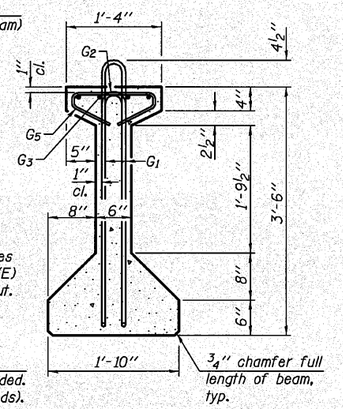
ELEVATION OF BEAM
(Showing reinforcement & dimensions)

2-#8 G_6 bar assembly with threaded coupler splice at pier only. (See sheet 21 of 29 for details).

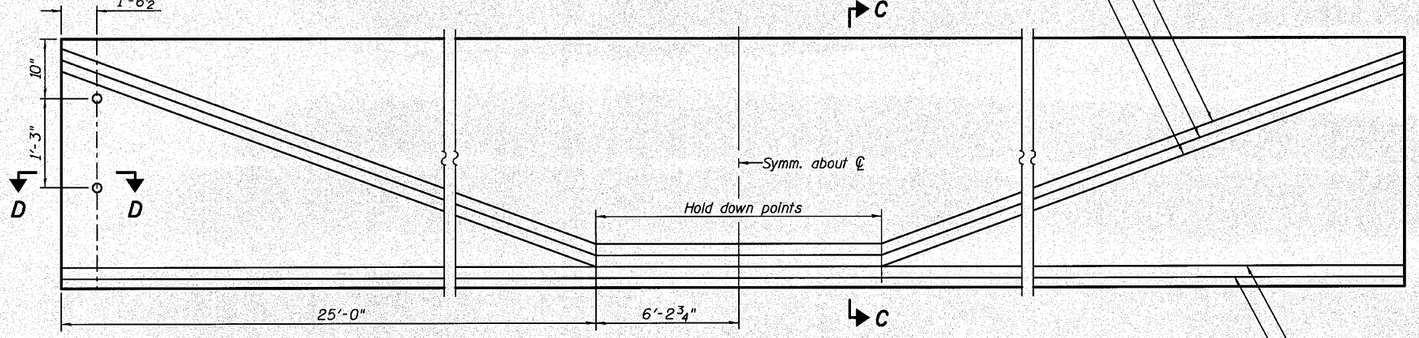
Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



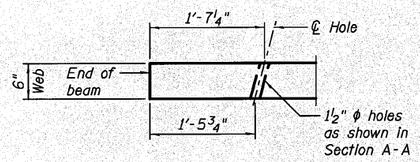
SECTION A-A



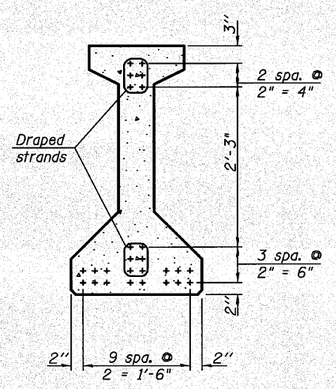
SECTION B-B



ELEVATION OF BEAM
(Showing prestressing steel)



SECTION D-D



SECTION C-C

***BAR LIST
ONE BEAM ONLY

Bar	No.	Size	Length	Shape
G_1	105	#4	8'-5"	
G_2	105	#4	6'-8"	
G_3	8	#6	32'-4"	
G_4	38	#3	4'-11"	
G_5	63	#3	2'-6"	
G_6	2	#8	6'-6"	

***For information only

Notes:
See sheet 21 of 29 for additional details and Bill of Material.
Required release strength, f'ci, shall be 6000 psi.
See Framing Plan for location of inserts for drainage pipe supports and location of permanent bracing.

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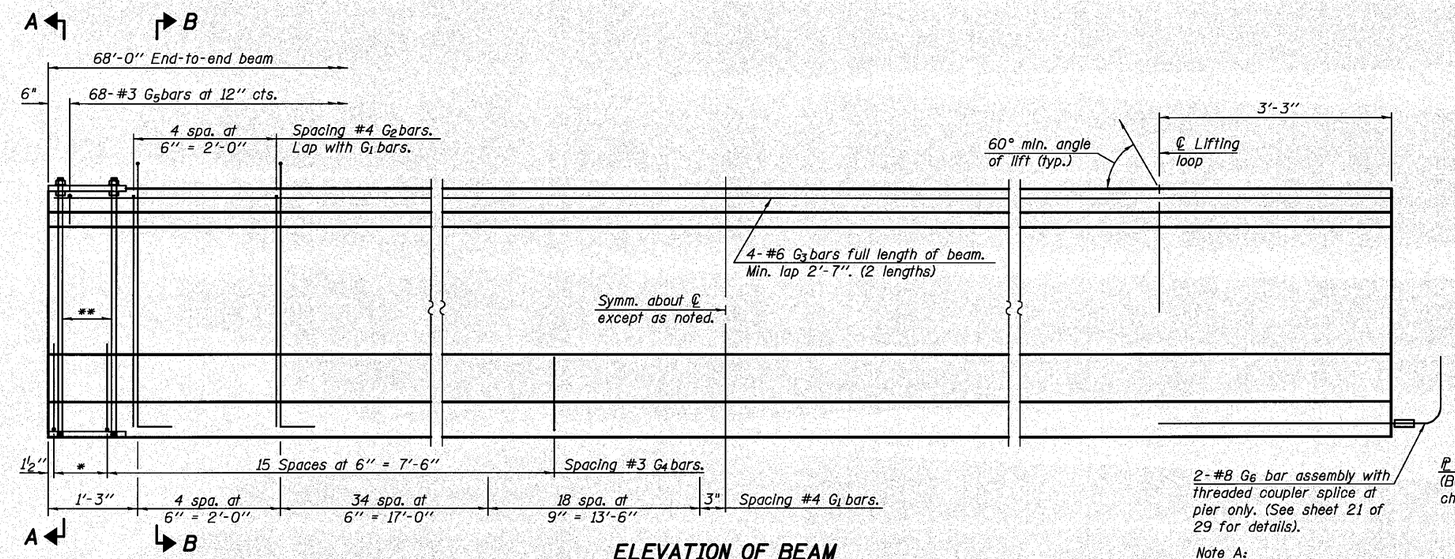
	CHECKED - BJM	REVISED -
	DRAWN - GPM	REVISED -
PLOT DATE = 11/22/2010	CHECKED - BJM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

42" PPC I-BEAM SPANS 1 & 3
STRUCTURE NO. 037-0176
SHEET NO. 19 OF 29 SHEETS

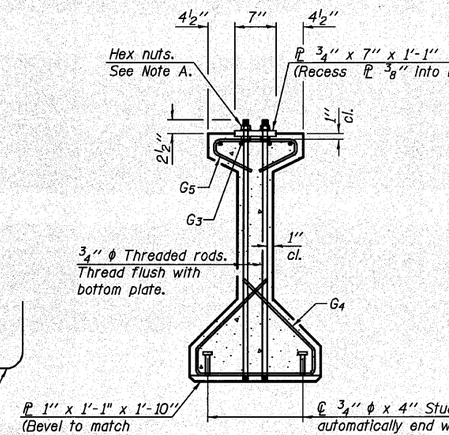
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	40
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		



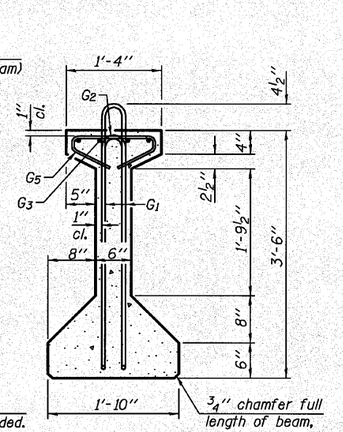
*3 spaces at 3" = 9".
**4-¾" ϕ threaded dowel rods at 3" cts., Each Face.

ELEVATION OF BEAM
(Showing reinforcement & dimensions)

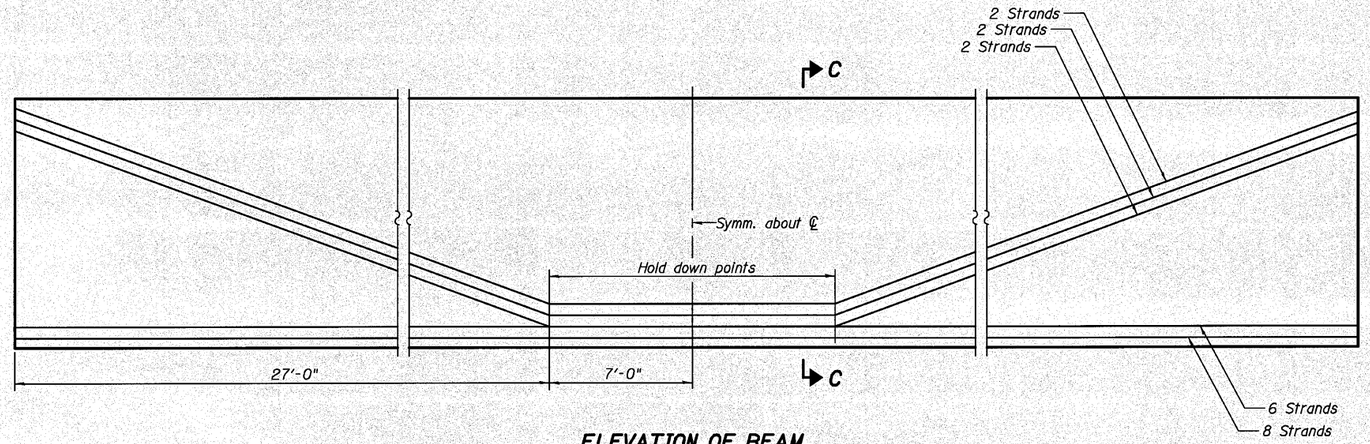
Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



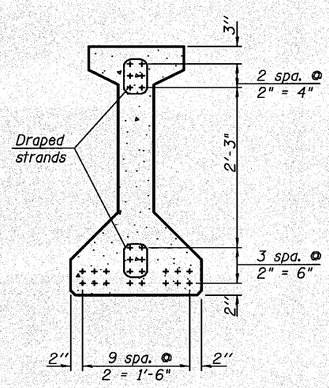
SECTION A-A



SECTION B-B



ELEVATION OF BEAM
(Showing prestressing steel)



SECTION C-C

***BAR LIST
ONE BEAM ONLY

Bar	No.	Size	Length	Shape
G_1	114	#4	8'-5"	⊓L
G_2	114	#4	6'-8"	⊓
G_3	8	#6	36'-4"	——
G_4	38	#3	4'-11"	⌓
G_5	68	#3	2'-6"	⊂⊃
G_6	4	#8	6'-6"	⌒

***For information only

Notes:
See sheet 21 of 29 for additional details and Bill of Material.
Required release strength, f'ci, shall be 6000 psi.
See Framing Plan for location of inserts for drainage pipe supports and location of permanent bracing.

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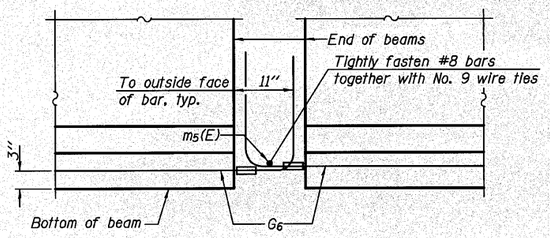
	CHECKED - BJM	REVISED -	
	DRAWN - GPM	REVISED -	
PLOT DATE = 11/22/2010	CHECKED - BJM	REVISED -	

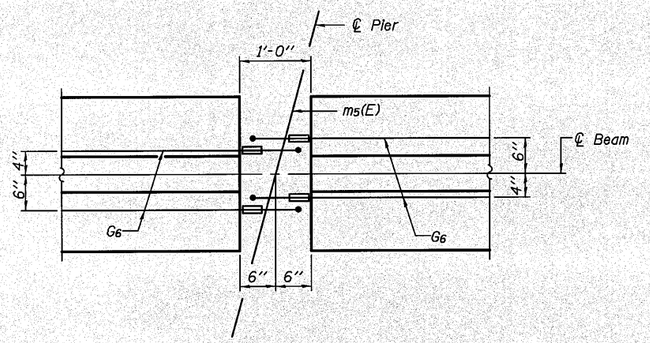
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

42" PPC I-BEAM SPAN 2
STRUCTURE NO. 037-0176
SHEET NO. 20 OF 29 SHEETS

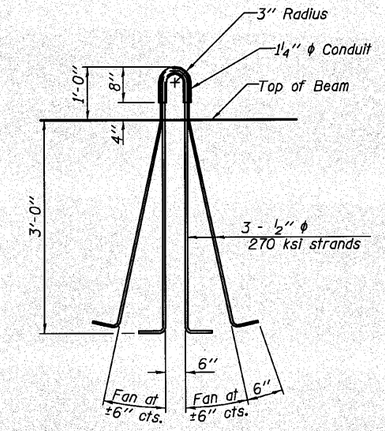
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	41
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			



ELEVATION OF BEAM AT PIER



PLAN OF BEAM AT PIER



LIFTING LOOP DETAIL

Notes:

Inserts for ¾" ϕ threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.

Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Tilt G_6 bars when necessary to maintain 1½" clearance.

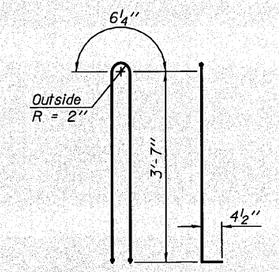
The top and bottom plates shall be AASHTO M270 Grade 50.

The bottom plates and studs shall be galvanized according to AASHTO M111. Top plates and threaded rods need not be galvanized.

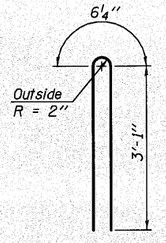
Threaded rods shall be ASTM F 1554 Grade 55.

The G_6 bar assembly shall have the threaded ends oversized to ensure no reduction in cross sectional area after threading. The coupler splice shall be capable of developing 125 percent of the yield strength of the reinforcement bar.

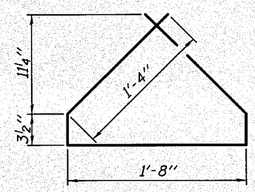
Beams requiring G_6 bar assemblies shall not be released from the fabricator until they have attained 45 days of age or older.



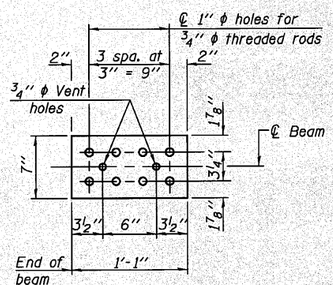
BAR G1



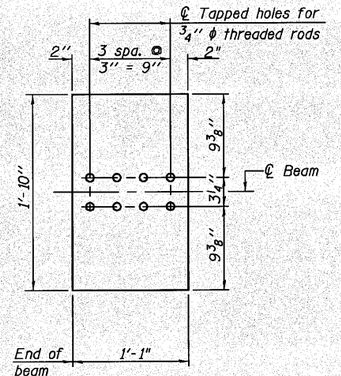
BAR G2



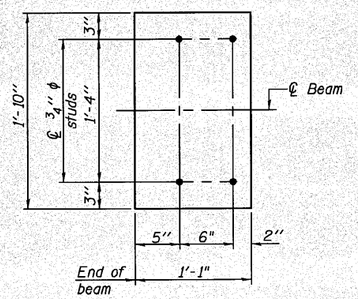
BAR G4



TOP PLATE

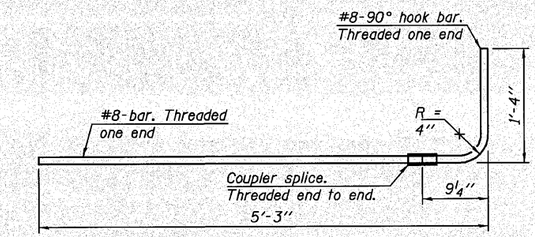


BOTTOM PLATE
(Showing threaded rods)

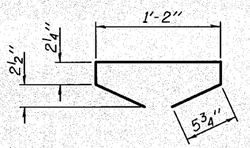


BOTTOM PLATE
(Showing studs)

See bearing details for pintle hole locations when required.



G6 BAR ASSEMBLY



BAR G5

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 42"	Ft.	1157.5

	DESIGNED - GPM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED - BJM	REVISED -	42" PPC I-BEAM DETAILS STRUCTURE NO. 037-0176
	DRAWN - JNH/MWS	REVISED -	SHEET NO. 21 OF 29 SHEETS
PLOT DATE = 11/22/2018	CHECKED - BRT	REVISED -	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	42
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

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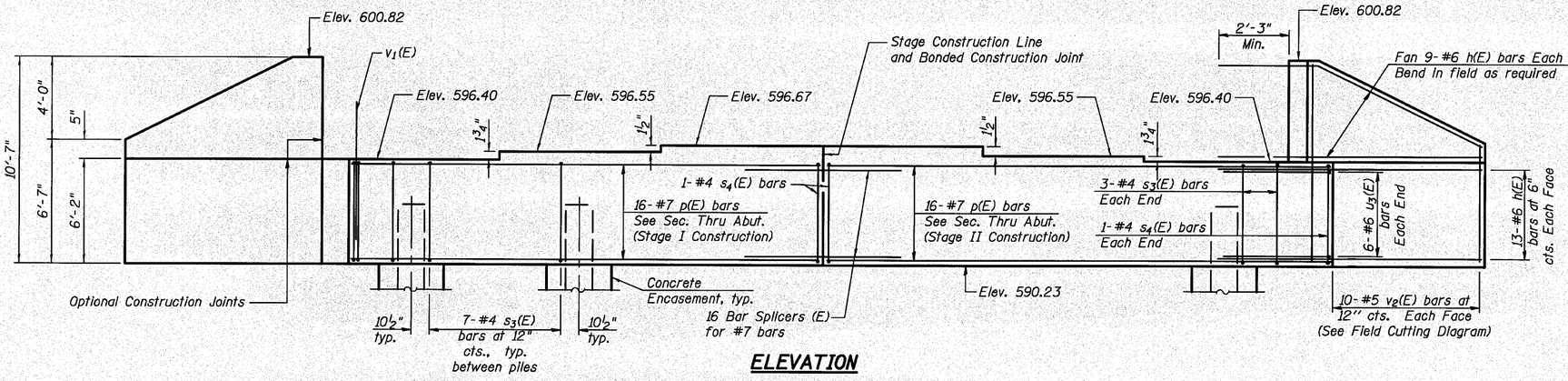
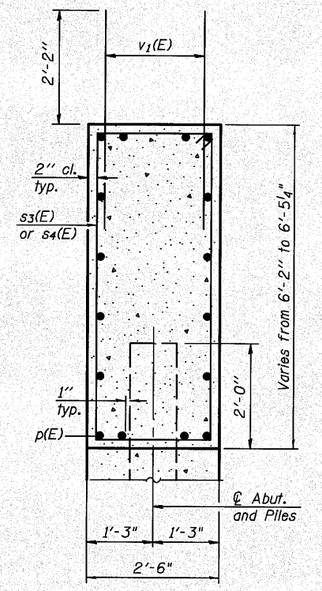
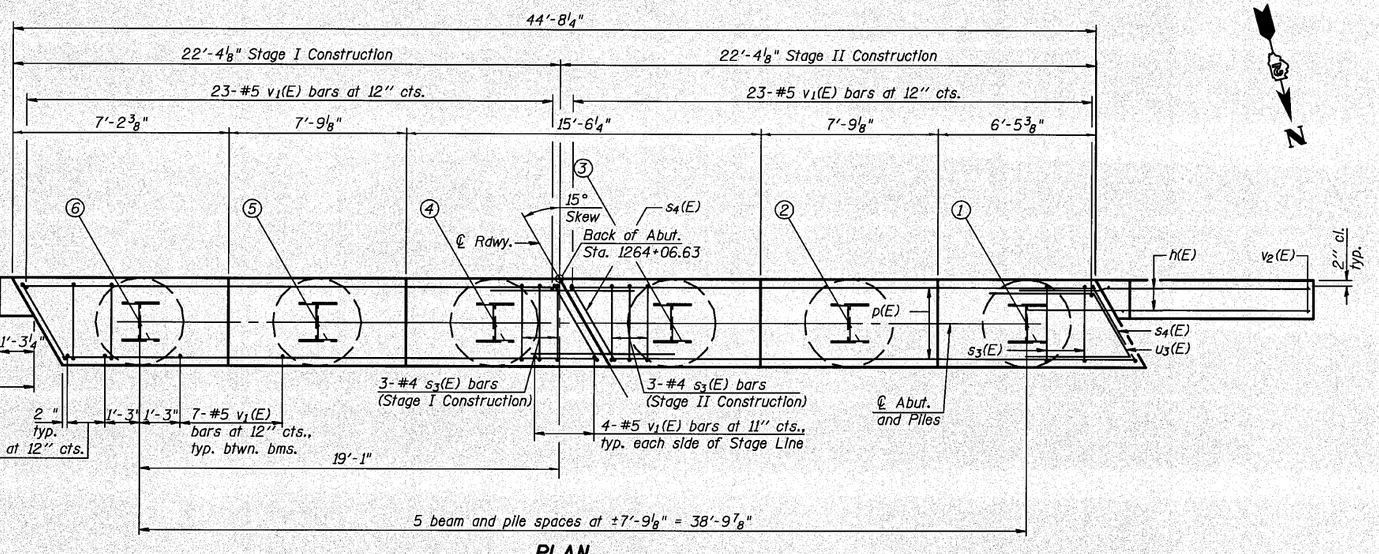
Notes:
Pour steps monolithically with cap.



ELEVATION



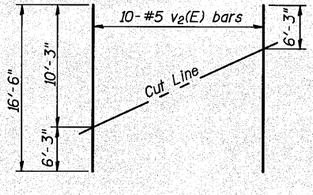
SEC. THRU ABUT.



PLAN

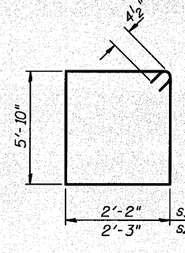
PILE DATA

Type:	HP 14x73 w/Pile Shoes
Nominal Required Bearing:	578 kips
Factored Resistance Available:	286.5 kips
Est. Length:	50'
No. Production Piles:	5
No. Test Piles:	1

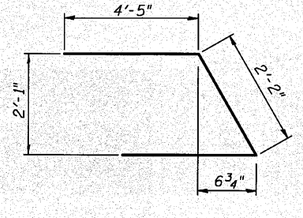


FIELD CUTTING DIAGRAM

Order $v_2(E)$ full length. Cut as shown and use remainder of bars in opposite face.



BARS $s_3(E)$ & $s_4(E)$



BAR $u_3(E)$

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	88	#6	13'-2"	
p(E)	32	#7	22'-2"	
$s_3(E)$	40	#4	16'-9"	
$s_4(E)$	4	#4	16'-11"	
$u_3(E)$	12	#6	11'-0"	
$v_1(E)$	88	#5	4'-4"	
$v_2(E)$	20	#5	16'-6"	
Porous Granular Embankment, Special		Cu. Yd.	99	
Structure Excavation		Cu. Yd.	129	
Concrete Structures		Cu. Yd.	32.5	
Concrete Encasement		Cu. Yd.	3.3	
Reinforcement Bars, Epoxy Coated		Pound	4500	
Bar Splicers		Each	16	
Furnishing Steel Piles HP14x73		Foot	250	
Driving Piles		Foot	250	
Test Pile Steel HP14x73		Each	1	
Pile Shoes		Each	6	

For details of Bar Splicers, see sheet 27 of 29. For details of piles and Concrete Encasement, see sheet 26 of 29.

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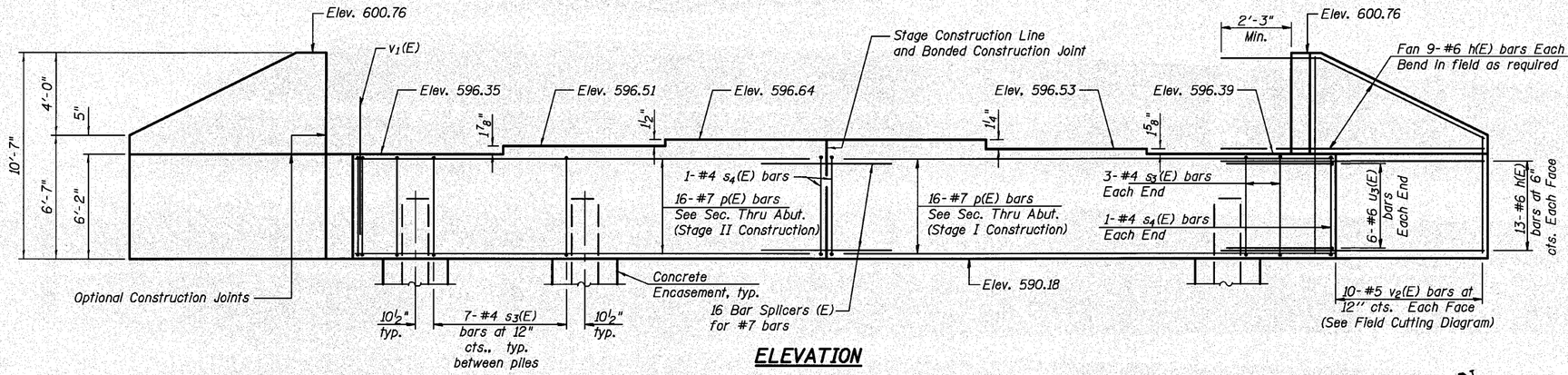
	DESIGNED - GPM	REVISED -	
	CHECKED - BJM	REVISED -	
	DRAWN - GPM/MWS	REVISED -	
PLOT DATE = 11/22/2018	CHECKED - BJM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

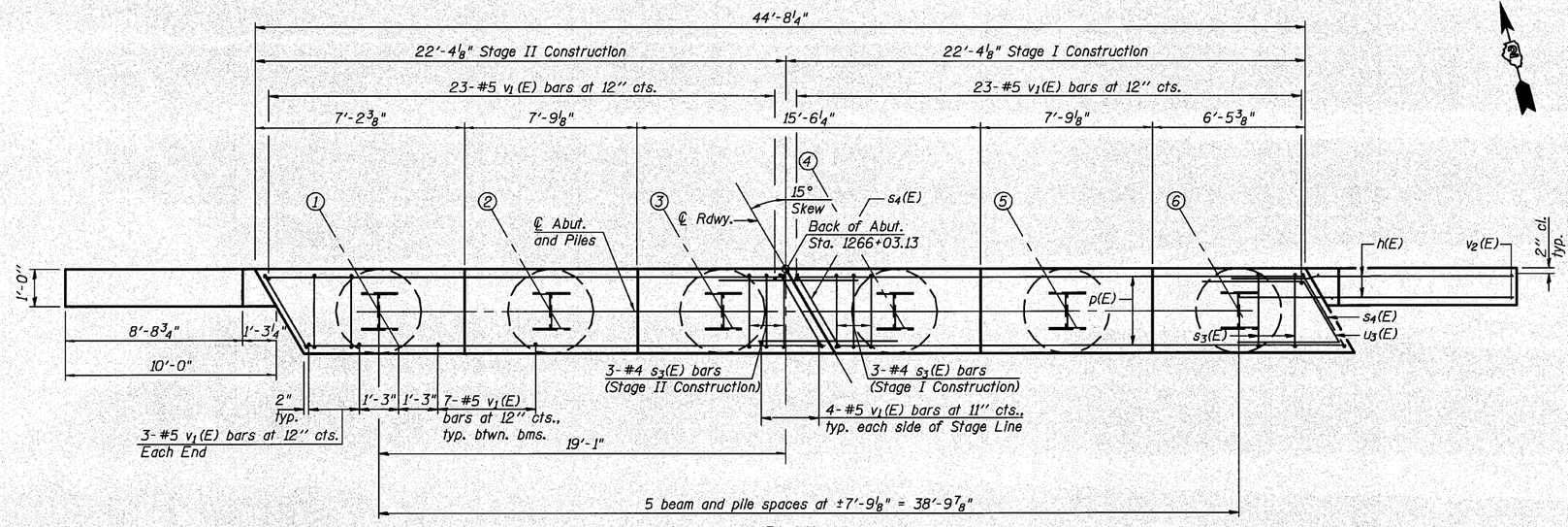
SOUTH ABUTMENT
STRUCTURE NO. 037-0176
SHEET NO. 22 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	43
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

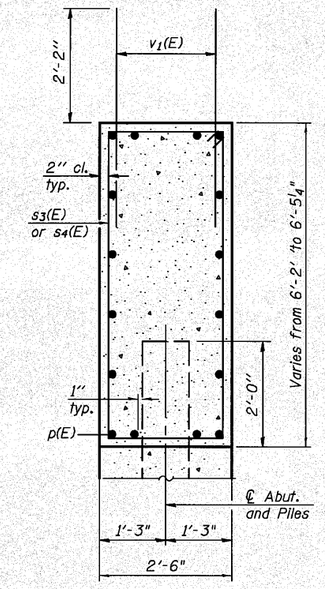
Notes:
Pour steps monolithically with cap.



ELEVATION



PLAN



SEC. THRU ABUT.

PILE DATA

Type:	HP 14x73 w/Pile Shoes
Nominal Required Bearing:	578 kips
Factored Resistance Available:	286.5 kips
Est. Length:	50'
No. Production Piles:	5
No. Test Piles:	1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	88	#6	13'-2"	
p(E)	32	#7	22'-2"	
s_3(E)	40	#4	16'-9"	
s_4(E)	4	#4	16'-11"	
u_3(E)	12	#6	11'-0"	
v_1(E)	88	#5	4'-4"	
v_2(E)	20	#5	16'-6"	
Porous Granular Embankment, Special		Cu. Yd.	99	
Structure Excavation		Cu. Yd.	209	
Concrete Structures		Cu. Yd.	32.5	
Concrete Encasement		Cu. Yd.	3.3	
Reinforcement Bars, Epoxy Coated		Pound	4500	
Bar Splicers		Each	16	
Furnishing Steel Piles HP14x73		Foot	250	
Driving Piles		Foot	250	
Test Pile Steel HP14x73		Each	1	
Pile Shoes		Each	6	

For bar bending & field cutting diagrams, see sheet 22 of 29.

For details of Bar Splicers, see sheet 27 of 29. For details of piles and Concrete Encasement, see sheet 26 of 29.

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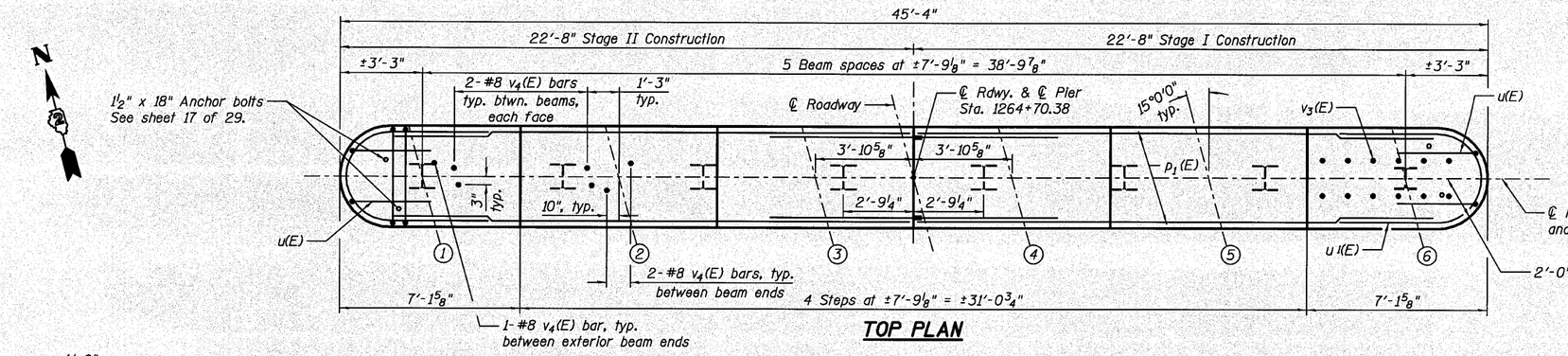
	DESIGNED - GPM	REVISED -
	CHECKED - BJM	REVISED -
	DRAWN - GPM/MWS	REVISED -
PLOT DATE = 11/22/2018	CHECKED - BJM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT
STRUCTURE NO. 037-0176
SHEET NO. 23 OF 29 SHEETS

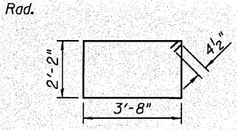
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	44
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			



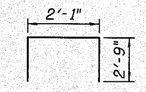
TOP PLAN

PILE DATA

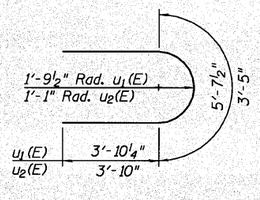
Type:	HP14x73 w/ Pile Shoes
Nominal Required Bearing:	578 kips
Factored Resistance Available:	286.5 kips
Est. Length:	53 ft.
No. Production Piles:	7
No. Test Piles:	1



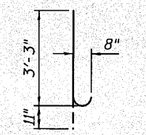
BAR s5(E)



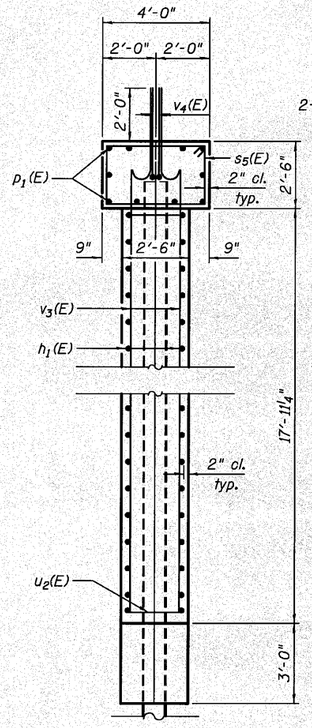
BAR u(E)



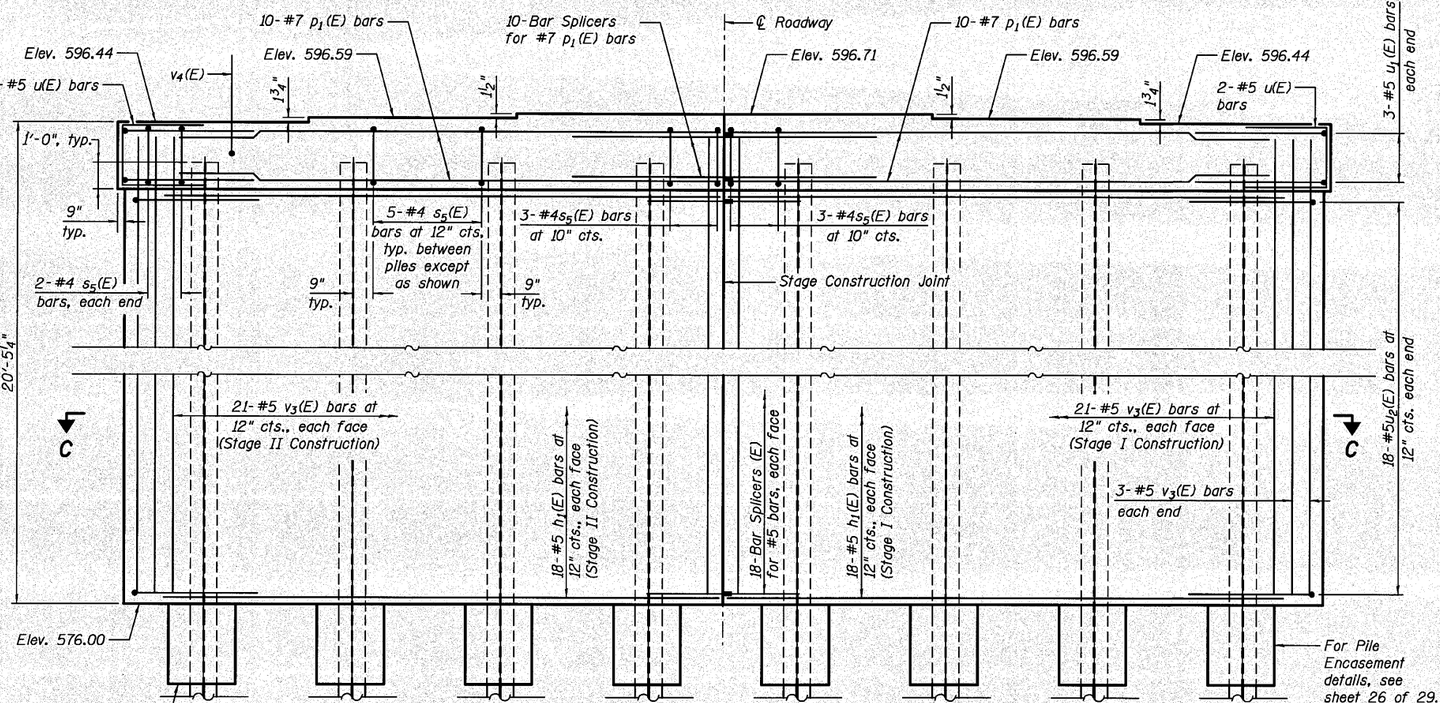
BAR u1(E) & u2(E)



BAR v4(E)



END VIEW



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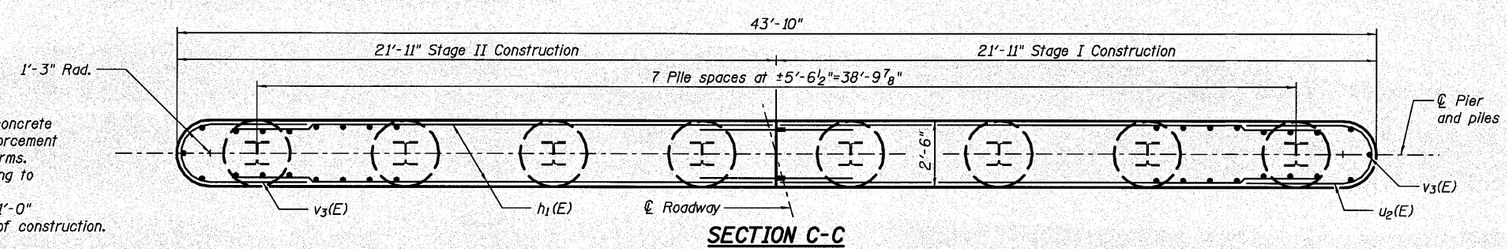

SECTION C-C

Note:
If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	72	#5	20'-6"	
p1(E)	20	#7	20'-6"	
s5(E)	40	#4	12'-5"	
u(E)	4	#5	7'-7"	
u1(E)	6	#5	13'-4"	
u2(E)	36	#5	11'-1"	
v3(E)	90	#5	19'-6"	
v4(E)	30	#8	4'-2"	
Structure Excavation		Cu. Yd.	33	
Concrete Structures		Cu. Yd.	90.7	
Concrete Encasement		Cu. Yd.	4.4	
Reinforcement Bars, Epoxy Coated		Pound	5400	
Bar Splicers		Each	46	
Furnishing Steel Piles HP14x73		Foot	371	
Driving Piles		Foot	371	
Test Pile Steel HP14x73		Each	1	
Pile Shoes		Each	8	
Underwater Structure Excavation Protection - Location 1		Each	1	

For details of piles see sheet 26 of 29.

Wight

DESIGNED - GPM	REVISED -	
CHECKED - BJM	REVISED -	
DRAWN - MWS	REVISED -	
PLOT DATE = 11/22/2018	CHECKED - BRT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1
STRUCTURE NO. 037-0176
SHEET NO. 24 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	45
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		

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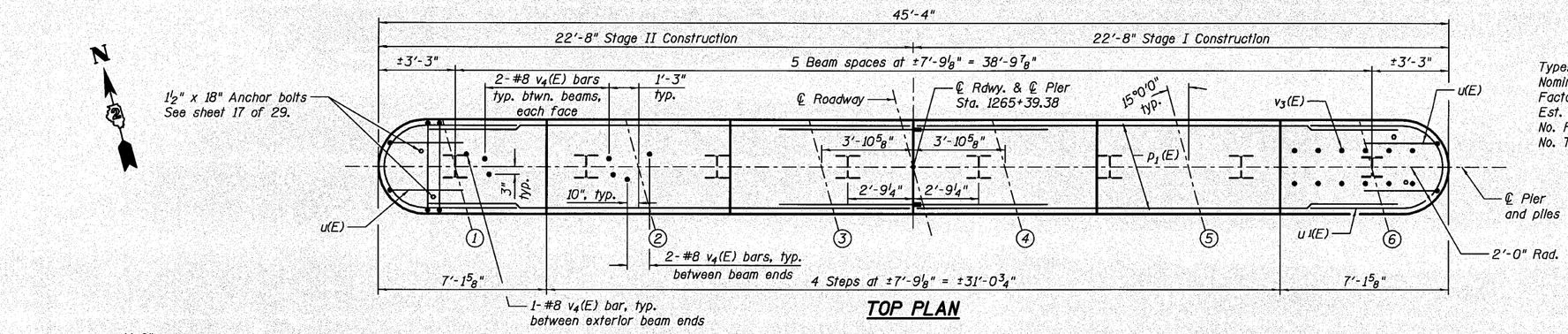
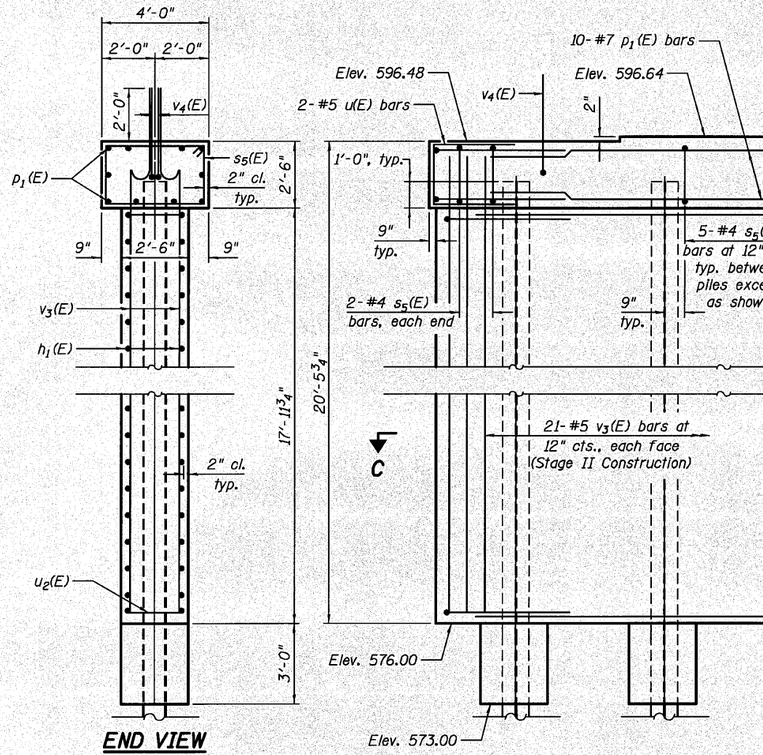
PILE DATA

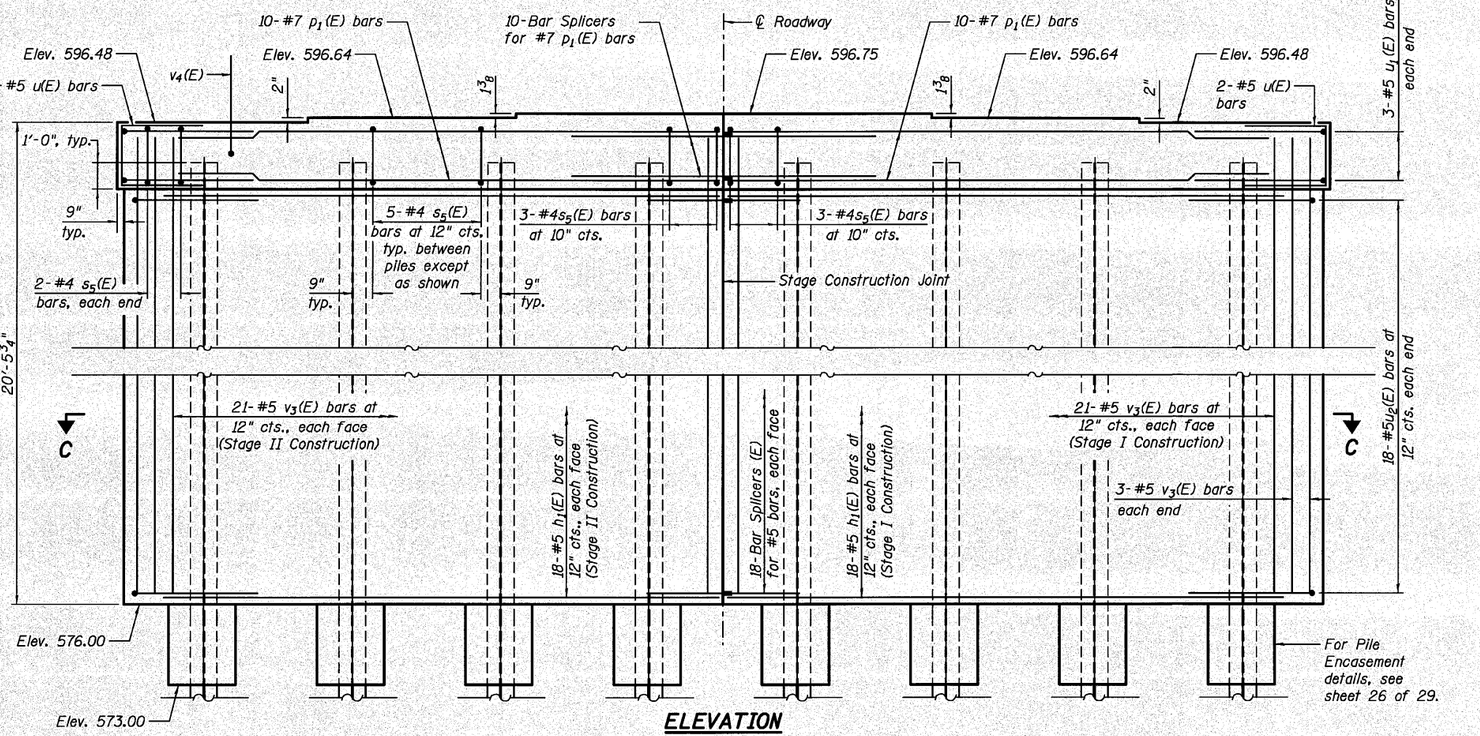
Type:	HP14x73 w/ Pile Shoes
Nominal Required Bearing:	578 kips
Factored Resistance Available:	283.4 kips
Est. Length:	53 ft.
No. Production Piles:	7
No. Test Piles:	1



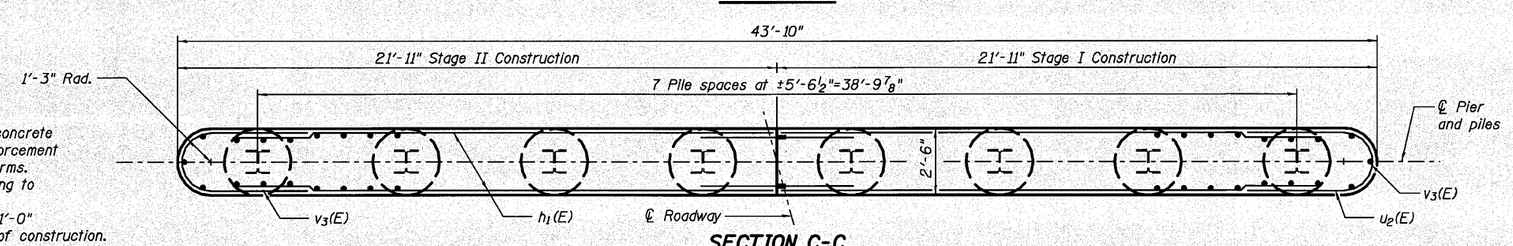
TOP PLAN



END VIEW



ELEVATION



SECTION C-C

Note:
If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	72	#5	20'-6"	
p1(E)	20	#7	20'-6"	
s5(E)	40	#4	12'-5"	
u(E)	4	#5	7'-7"	
u1(E)	6	#5	13'-4"	
u2(E)	36	#5	11'-1"	
v3(E)	90	#5	19'-6"	
v4(E)	30	#8	4'-2"	
Structure Excavation		Cu. Yd.	21	
Concrete Structures		Cu. Yd.	90.9	
Concrete Encasement		Cu. Yd.	4.4	
Reinforcement Bars, Epoxy Coated		Pound	5400	
Bar Splicers		Each	46	
Furnishing Steel Piles HP14x73		Foot	371	
Driving Piles		Foot	371	
Test Pile Steel HP14x73		Each	1	
Pile Shoes		Each	8	
Underwater Structure Excavation Protection - Location 2		Each	1	

For details of piles see sheet 26 of 29.
For bar bend diagrams see sheet 24 of 29.

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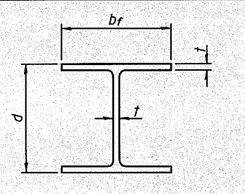
	DESIGNED - GPM	REVISED -
	CHECKED - BJM	REVISED -
	DRAWN - MWS	REVISED -
PLOT DATE = 11/22/2018	CHECKED - BRT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

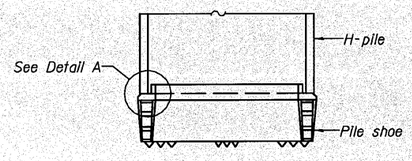
PIER 2
STRUCTURE NO. 037-0176
SHEET NO. 25 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	46
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		

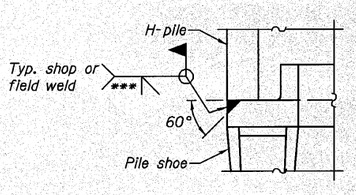


STEEL PILE TABLE

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

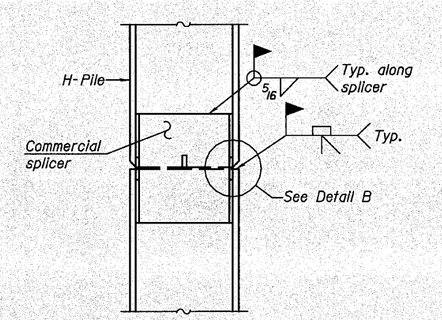


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



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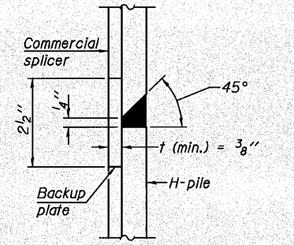
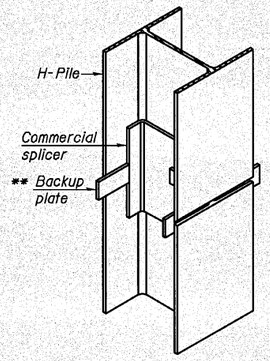
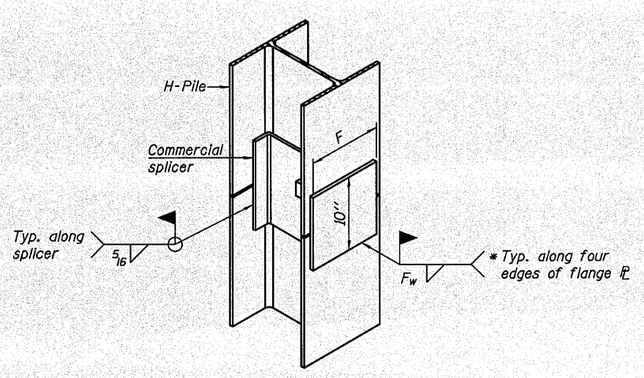


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



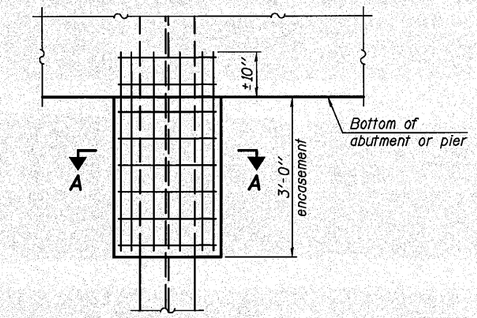
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

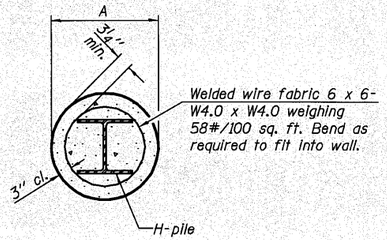
* Interrupt welds 1/4" from end of web and/or each flange.

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

*** Weld size per pile shoe manufacturer (5/16" min.).



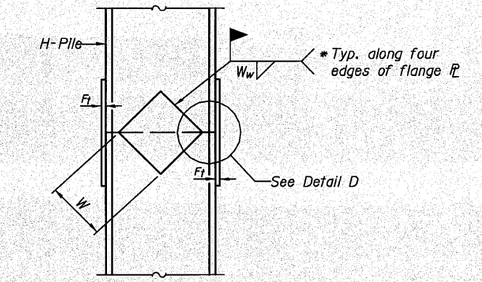
ELEVATION



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

SECTION A-A

PILE ENCASEMENT



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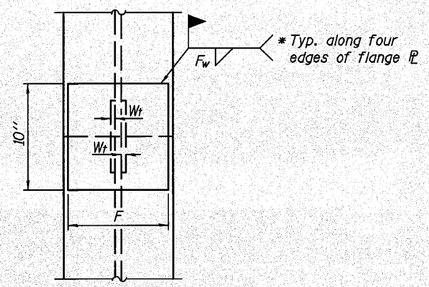
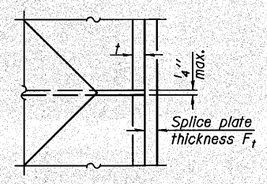


END VIEW



DETAIL D

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

WELDED PLATE FIELD SPLICE

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

F-HP

7-1-10

	DESIGNED - GPM	REVISED -	
	CHECKED - BJM	REVISED -	
	DRAWN - JNH/MWS	REVISED -	
PLOT DATE = 11/22/2010	CHECKED - BJM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 037-0176
SHEET NO. 26 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	47
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

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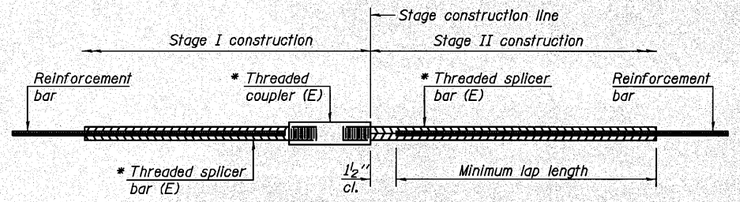


STANDARD BAR SPLICER ASSEMBLY

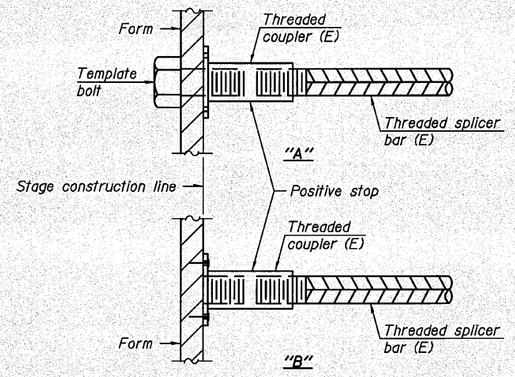
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

Table 1: Black bar, 0.8 Class C
Table 2: Black bar, Top bar lap, 0.8 Class C
Table 3: Epoxy bar, 0.8 Class C
Table 4: Epoxy bar, Top bar lap, 0.8 Class C
Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1½" + thread length

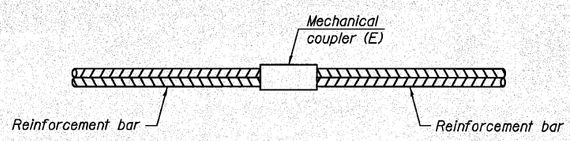
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck-Top Mat	#5	394	3
Deck-Bottom Mat	#5	263	3
Deck-Skewed Bars	#5	4	3
Appr.-Top Mat	#4	50	3
Appr.-Bottom Mat	#5	92	3
Appr.-Footing	#5	80	3
N. Abutment	#7	16	4
S. Abutment	#7	16	4
Diaphragm-Abut.	#6	16	4
Diaphragm-Pier	#4	8	4
Diaphragm-Pier	#6	4	4
Pier 1 - Cap	#7	10	4
Pier 1 - Wall	#5	36	4
Pier 2 - Cap	#7	10	4
Pier 2 - Wall	#5	36	4



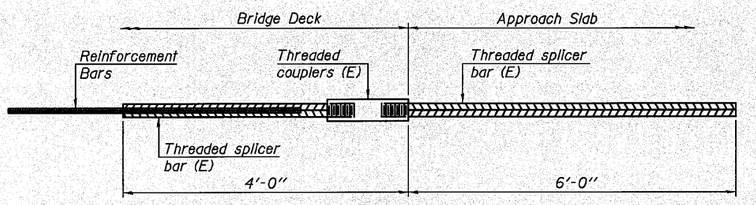
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



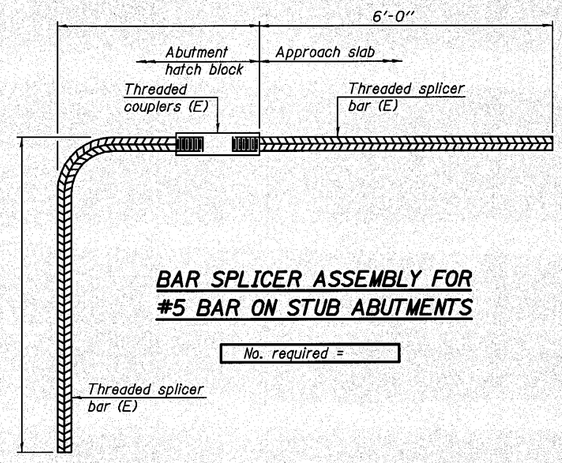
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required = 92



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See special provision for Mechanical Splicers.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

7-1-10

Wight

	DESIGNED - JNH	REVISED -	
	CHECKED - BJM	REVISED -	
	DRAWN - MWS	REVISED -	
PLOT DATE = 11/22/2010	CHECKED - BJM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 037-0176
SHEET NO. 27 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	48
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

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Illinois Department of Transportation
Division of Highways
Wang Engineering

SOIL BORING LOG

Date 1/5/07

ROUTE FAP 638 DESCRIPTION P92-065-07 IL 82 Bridge over Green River, 2.0 m. N. of Geneseo LOGGED BY J. Strating

SECTION 129 BR-4 LOCATION Geneseo Twp. - 4 SW, SEC. , TWP. 17N, RNG. 3E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 037-0176
Station 1265+07.43

BORING NO. B-1a
Station 1266+30.43
Offset 25.00ft Lt CL
Ground Surface Elev. 597.90 ft

Surface Water Elev. 583.60 ft
Stream Bed Elev. 580.60 ft

Groundwater Elev.:
First Encounter 585.4 ft ▼
Upon Completion ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM tan/brown SILTY LOAM			0.8 P	16.0
	595.40			
LOOSE tan clean medium SAND		2 2 4		
	593.90			
	-5			
LOOSE tan clean medium SAND		1 2 4		
	591.40			
LOOSE tan/brown dirty SAND		1 2 2		
	588.40			
	-10			
MEDIUM dark gray SILTY CLAY with 11% ORGANICS		1 2 4	1.0 B	57.0
	585.90			
LOOSE tan/brown medium SAND	▼	1 2 2		
	583.90			
	-15			
LOOSE gray medium SAND		0 2 3		
	581.40			
MEDIUM gray medium SAND		3 5 6		
	578.90			
	-20			
MEDIUM gray clean medium SAND		1 3 7		
	576.40			
MEDIUM gray clean medium SAND		1 4 8		
	573.90			
	-25			
MEDIUM gray clean medium SAND with GRAVEL		4 5 7		
	571.40			
Wash MEDIUM gray clean medium SAND		4 6 6		
	568.90			
	-30			
Wash DENSE gray fine SAND		8 15 17		
	565.90			
Wash HARD gray/green CLAY LOAM TILL		5 7 10	6.3 B	16.0
	563.90			
	-35			
HARD gray/green CLAY LOAM TILL		11 17 23	6.5 B	15.0
	561.40			
HARD gray/green CLAY LOAM TILL		6 9 13	5.7 B	17.0
	558.90			
	-40			

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)

Illinois Department of Transportation
Division of Highways
Wang Engineering

SOIL BORING LOG

Date 1/5/07

ROUTE FAP 638 DESCRIPTION P92-065-07 IL 82 Bridge over Green River, 2.0 m. N. of Geneseo LOGGED BY J. Strating

SECTION 129 BR-4 LOCATION Geneseo Twp. - 4 SW, SEC. , TWP. 17N, RNG. 3E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 037-0176
Station 1265+07.43

BORING NO. B-1a
Station 1266+30.43
Offset 25.00ft Lt CL
Ground Surface Elev. 597.90 ft

Surface Water Elev. 583.60 ft
Stream Bed Elev. 580.60 ft

Groundwater Elev.:
First Encounter 585.4 ft ▼
Upon Completion ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
VERY STIFF dark gray CLAY LOAM TILL		8 13 18	5.3 B	19.0
	556.40			
VERY STIFF dark gray CLAY LOAM TILL		8 10 15	5.1 B	18.0
	553.40			
	-45			
MEDIUM gray fine SAND with SILT lens		8 12 14		
	551.40			
MEDIUM gray fine SAND		5 9 14		
	548.90			
	-50			
DENSE gray fine SAND		9 21 30		
	546.40			
Wash MEDIUM gray clean medium SAND & GRAVEL		3 8 15		
	543.90			
	-55			
Wash VERY DENSE gray shaley CLAY Auger Refusal	542.40	39 100/7"		
End of Boring				
	-60			

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)

Wight

DESIGNED - GPM	REVISED -	
CHECKED - BJM	REVISED -	
DRAWN - MWS	REVISED -	
PLOT DATE = 11/22/2010	CHECKED - BRT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 037-0176
SHEET NO. 28 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	49
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		

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Illinois Department of Transportation

Division of Highways
Wang Engineering

SOIL BORING LOG

Date 1/8/07

ROUTE FAP 638 **DESCRIPTION** P92-065-07 IL 82 Bridge over Green River, 2.0 m. N. of Geneseo **LOGGED BY** J. Strating

SECTION 129 BR-4 **LOCATION** Geneseo Twp. - 4 SW, **SEC.** , **TWP.** 17N, **RNG.** 3E

COUNTY Henry **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** B-53 Diedrich Automatic

STRUCT. NO. 037-0176
Station 1265+07.43

BORING NO. B-2a
Station 1264+23.43
Offset 45.50ft Rt CL
Ground Surface Elev. 596.40 ft

Surface Water Elev. 583.60 ft
Stream Bed Elev. 580.60 ft

Groundwater Elev.:
First Encounter 583.9 ft ▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				MEDIUM brown SANDY LOAM
		0.5 P	14.0	
593.90				
	6			MEDIUM brown SANDY LOAM
	7	0.8	16.0	
	7	P		
591.90				
-5				
	4			LOOSE tan/brown dirty SAND
	3			
589.90	4			
	1			LOOSE tan clean medium SAND
	2			
587.40	2			
-10				
	1			LOOSE tan clean medium SAND
	4			
584.90	5			
▼				
	2			LOOSE tan/brown clean medium SAND
	4			
582.40	5			
-15				
	2			LOOSE tan/brown medium SAND
	3			
579.90	4			
577.40				
-20				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
	1			LOOSE gray clean medium SAND with GRAVEL
	2			
574.90	4			
571.90				
-25				
	4			VERY STIFF gray SILTY CLAY
	6	3.3	20.0	
569.90	8	P		
	7			Wash
	9	4.9	18.0	HARD brown/gray CLAY LOAM TILL
567.40	14	B		
-30				
	4			HARD gray/green CLAY LOAM TILL
	7	6.0	17.0	
564.90	11	B		
	4			Wash
	10	4.5	18.0	VERY STIFF gray/green CLAY LOAM TILL
562.40	14	B		
-35				
	3			VERY STIFF gray/green CLAY LOAM TILL
	6	4.3	18.0	
559.90	12	B		
	6			WASH
	11	3.5	18.0	VERY STIFF gray SILTY CLAY with SILT lens
	12	P		
556.90				
-40				

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)

Date 1/8/07

ROUTE FAP 638 **DESCRIPTION** P92-065-07 IL 82 Bridge over Green River, 2.0 m. N. of Geneseo **LOGGED BY** J. Strating

SECTION 129 BR-4 **LOCATION** Geneseo Twp. - 4 SW, **SEC.** , **TWP.** 17N, **RNG.** 3E

COUNTY Henry **DRILLING METHOD** Hollow Stem Auger **HAMMER TYPE** B-53 Diedrich Automatic

STRUCT. NO. 037-0176
Station 1265+07.43

BORING NO. B-2a
Station 1264+23.43
Offset 45.50ft Rt CL
Ground Surface Elev. 596.40 ft

Surface Water Elev. 583.60 ft
Stream Bed Elev. 580.60 ft

Groundwater Elev.:
First Encounter 583.9 ft ▼
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
	5			Wash
	11			MEDIUM gray fine SAND with CLAY lens
	14			
554.40				
	6			VERY STIFF dark gray CLAY LOAM TILL
	8	3.3	20.0	
552.40	12	B		
-45				
	4			STIFF gray SILTY LOAM with SAND lens
	5	2.0	27.0	
549.90	6	P		
	7			Wash
	10	1.3	24.0	STIFF gray SILT with ORGANICS
	15	P		
546.90				
-50				
	10			Wash
	14			No Recovery
544.90	14			
	33			Wash
542.90	100/8"			VERY DENSE gray SHALE Auger Refusal at 53.5'
-55				
				Tri-Cone
	100/1"			
537.90				
				VERY DENSE gray/white SHALE & LIMESTONE
-60				End of Boring

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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Wight

PLOT DATE = 11/22/2018

DESIGNED - GPM | REVISED -
CHECKED - BJM | REVISED -
DRAWN - MWS | REVISED -
CHECKED - BRT | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

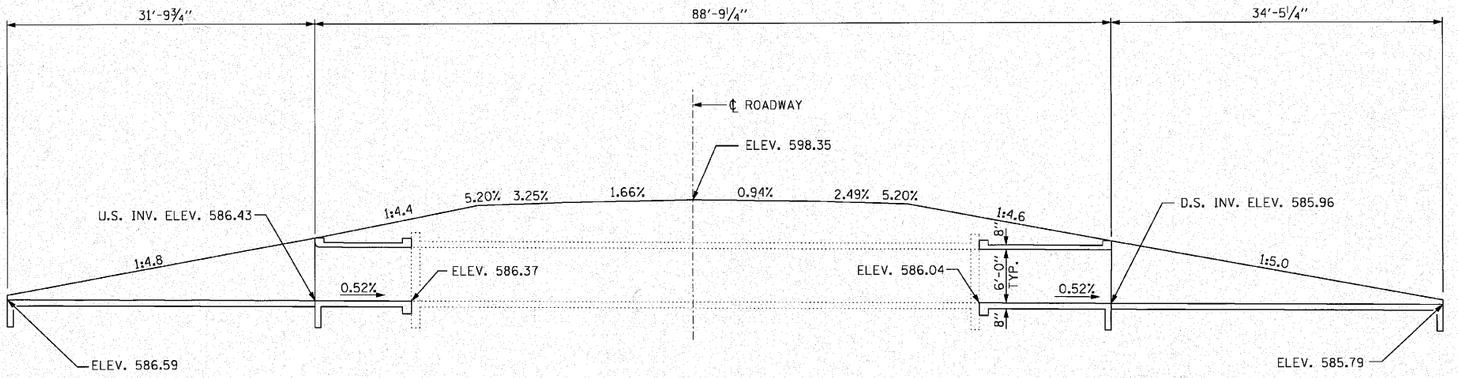
BORING LOGS
STRUCTURE NO. 037-0176
SHEET NO. 29 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	50
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

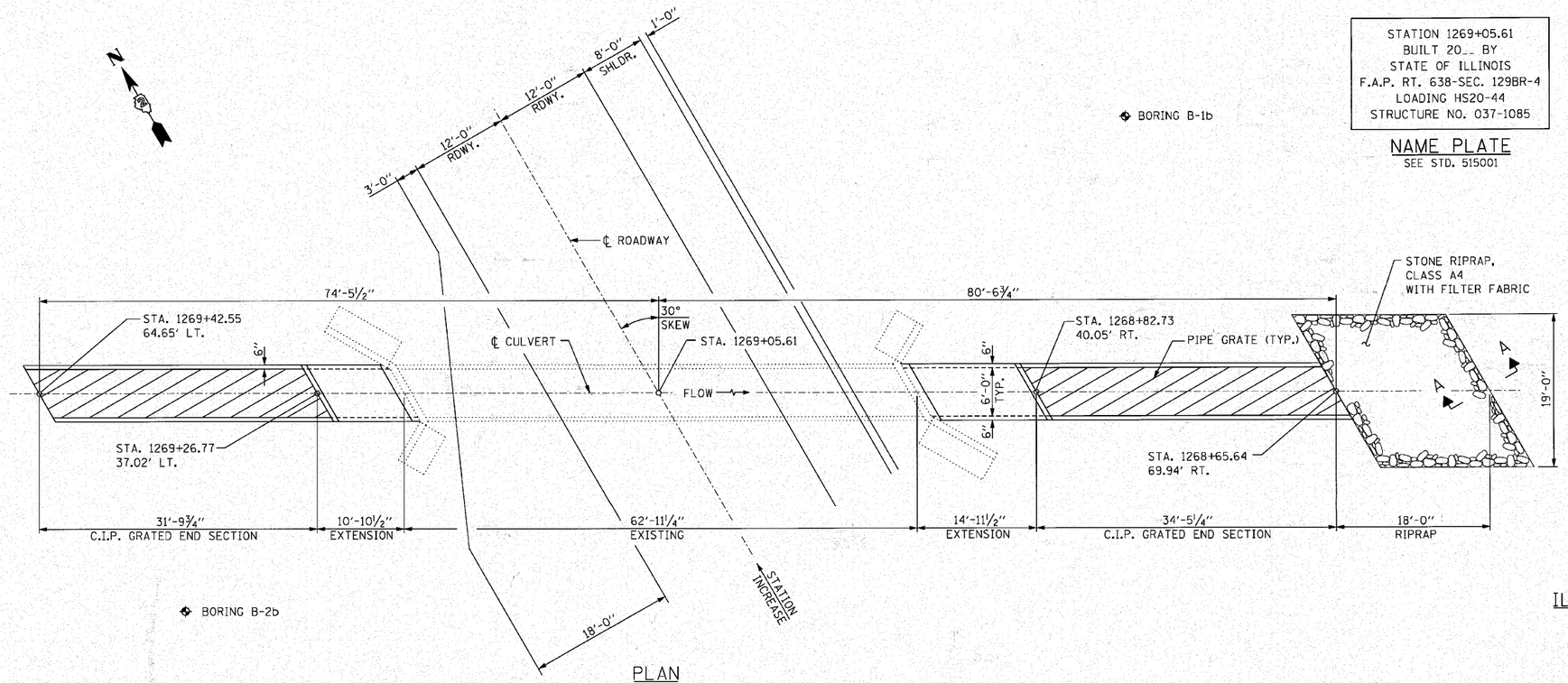
BENCHMARK: CHISELED SQUARE ON THE NE WINGWALL OF EXISTING BRIDGE S.N. 037-0071, 415 FT. SOUTH OF CULVERT. ELEV. 597.22

S.N. 037-1085 WAS BUILT IN 1931 AS SBI 82 SECTION 129 AT STA. 1258+00. ORIGINAL STRUCTURE IS A SINGLE 6'x6' CONCRETE BOX CULVERT. THE STRUCTURE IS 55'-2" OUT TO OUT AND IS SKEWED 30° LEFT AHEAD. TRAFFIC TO BE MAINTAINED UTILIZING STAGE CONSTRUCTION.

SALVAGE: NONE.



LONGITUDINAL SECTION
(LOOKING NORTH)



PLAN

BORING B-1b

STATION 1269+05.61
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RT. 638-SEC. 129BR-4
LOADING HS20-44
STRUCTURE NO. 037-1085

NAME PLATE
SEE STD. 515001

GENERAL NOTES

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR 60. SEE SPECIAL PROVISIONS.

FOR BACKFILLING AND EMBANKMENT, SEE STANDARD SPECIFICATIONS.

PRECAST ALTERNATIVE IS NOT ALLOWED.

CAST IN PLACE CONCRETE EXPOSED EDGES SHALL BE BEVELED ¾".

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

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

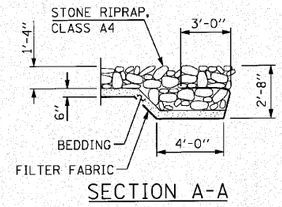
DESIGN SPECIFICATIONS

2002 AASHTO STANDARD SPECIFICATIONS
FOR HIGHWAY STRUCTURES

LOADING HS20-44

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 PSI
fy = 60,000 PSI (REINFORCEMENT)



SECTION A-A

TOTAL BILL OF MATERIAL

ITEM	UNIT	QTY.
CONCRETE BOX CULVERTS	CU. YD.	47.6
EXPANSION BOLTS, ¾ INCH x 18 INCH	EA.	40
REINFORCEMENT BARS	POUND	6470
STONE RIPRAP, CLASS A4	SQ. YD.	38
FILTER FABRIC	SQ. YD.	38
NAME PLATES	EA.	1

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 82 OVER DRAINAGE DITCH
F.A.P. RTE. 638 - SEC. 129BR-4
HENRY COUNTY
STATION 1269+05.61
STRUCTURE NO. 037-1085

FILE NAME = $FILE$

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois

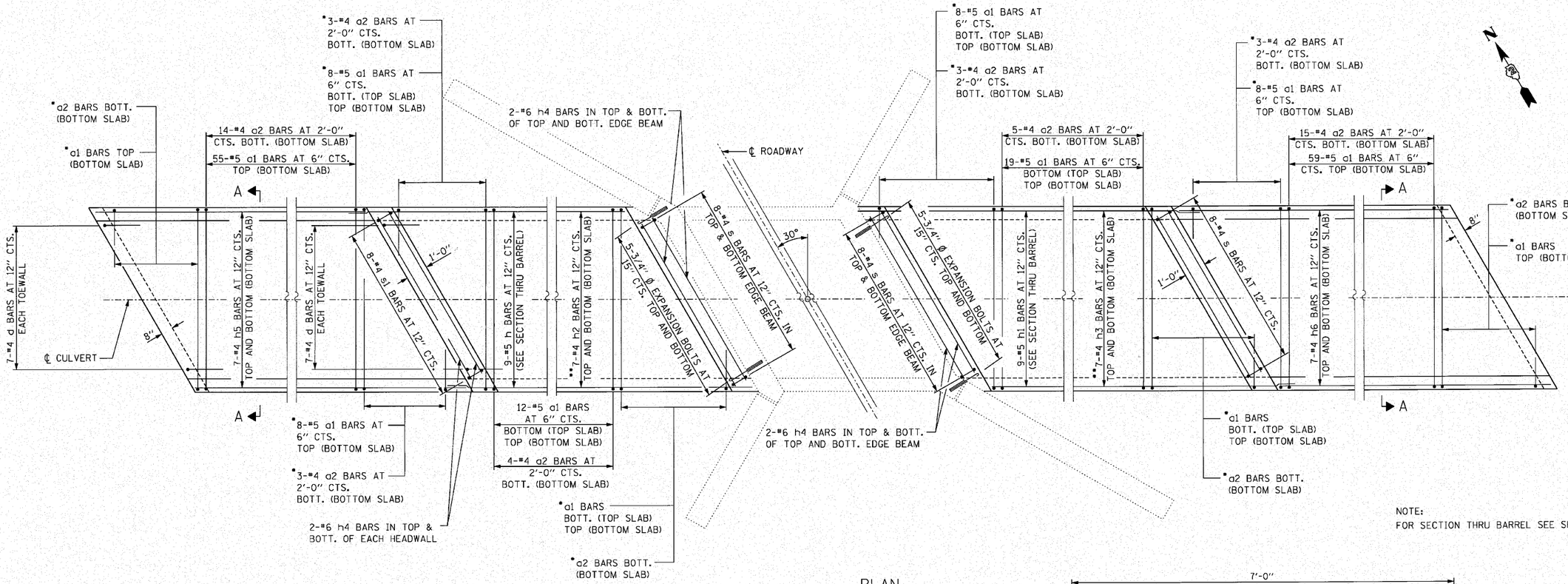
USER NAME = $USER$	DESIGNED - TBP	REVISED -
	DRAWN - TBP	REVISED -
PLOT SCALE = $SCALE$	CHECKED - ADB	REVISED -
PLOT DATE = $DATE$	DATE - 07/16/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 037-1085

SCALE: | SHEET NO. 1 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	51
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

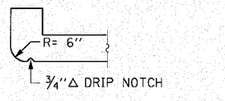


NOTE:
FOR SECTION THRU BARREL SEE SHEET 3 OF 5.

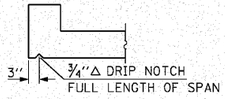
PLAN

* ORDER a1 AND a2 FULL LENGTH, CUT TO FIT SKEW AND USE REMAINDER IN OPPOSITE END.

** EXTEND h2 AND h3 BARS IN THE BOTTOM SLAB OF END SECTION AS SHOWN

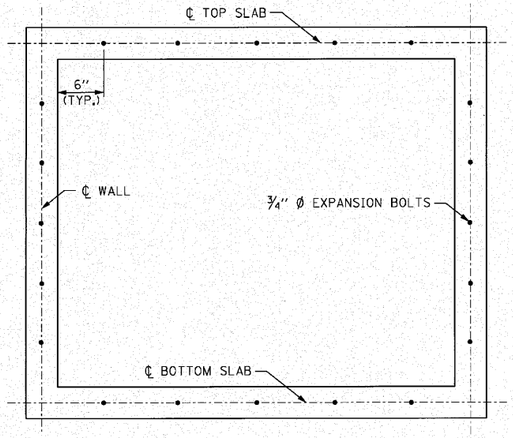


AT UPSTREAM END



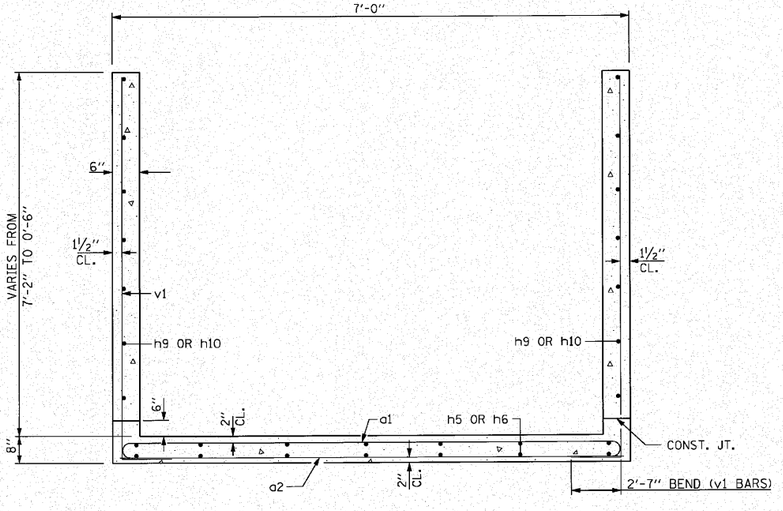
AT DOWNSTREAM END

SECTION THRU HEADWALL



EXPANSION BOLT LOCATION DETAIL

EXPANSION BOLTS SHALL BE 3/4" Ø HOOKED BOLTS AND SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE.



SECTION A-A

(GRATING NOT SHOWN FOR CLARITY)

FILE NAME = $FILE$

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois

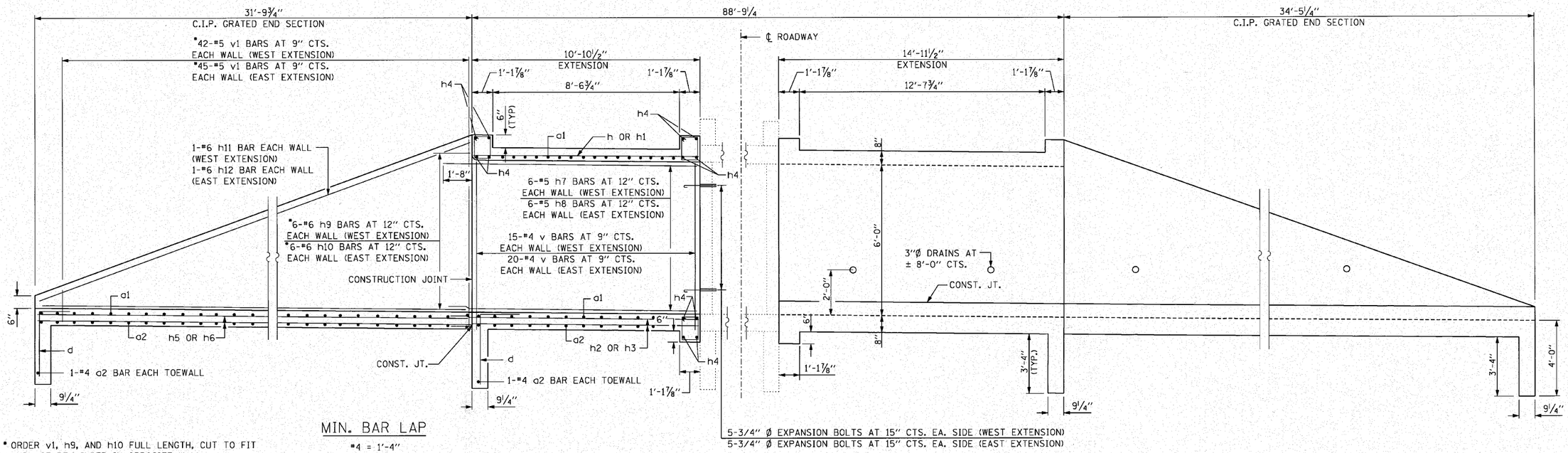
USER NAME = $USER$	DESIGNED - TBP	REVISED -	
	DRAWN - TBP	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - ADB	REVISED -	
PLOT DATE = $DATE$	DATE - 07/16/2010	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS-1
STRUCTURE NO. 037-1085

SCALE: | SHEET NO. 2 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	52
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			



HALF LONG. SECTION

HALF ELEVATION

(DIMENSIONS ALONG WALL)

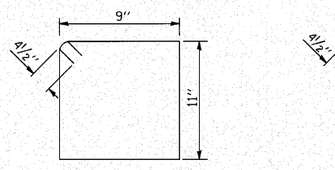
* ORDER v1, h9, AND h10 FULL LENGTH, CUT TO FIT AND USE REMAINDER IN OPPOSITE WALL.

MIN. BAR LAP

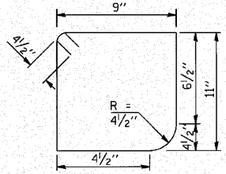
#4 = 1'-4"
#5 = 1'-8"

BILL OF MATERIAL

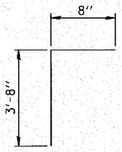
BAR	NO.	SIZE	LENGTH	SHAPE
a1	224	#5	7'-10"	⊂⊃
a2	54	#4	6'-8"	——
d	28	#4	4'-4"	⌐
h	9	#5	10'-6"	——
h1	9	#5	14'-7"	——
h2	14	#4	12'-1"	——
h3	14	#4	16'-1"	——
h4	24	#6	7'-9"	——
h5	14	#4	31'-5"	——
h6	14	#4	34'-1"	——
h7	12	#5	12'-5"	——
h8	12	#5	16'-5"	——
h9	6	#6	31'-5"	——
h10	6	#6	34'-1"	——
h11	2	#6	32'-2"	——
h12	2	#6	34'-8"	——
s	40	#4	4'-1"	□
s1	8	#4	4'-1"	▢
v	70	#4	7'-0"	——
v1	87	#5	13'-5"	L
REINFORCEMENT BARS			POUND	6470
CONCRETE BOX CULVERTS			CU. YD.	47.6



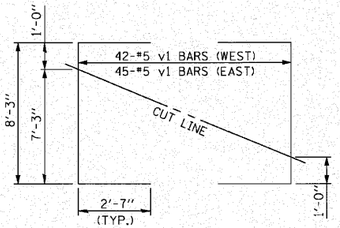
BAR s



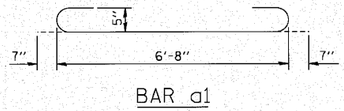
BAR s1



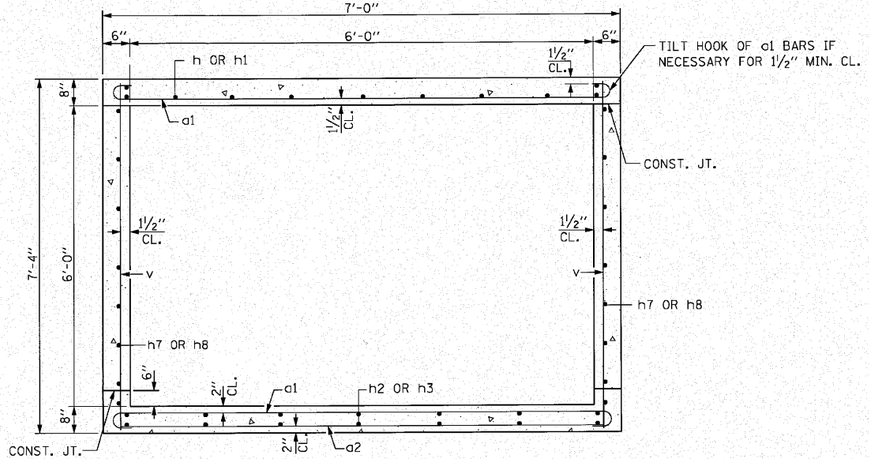
BAR d



FIELD CUTTING DIAGRAM



BAR a1



SECTION THRU BARREL

LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois	USER NAME = $USER$	DESIGNED - TBP	REVISED -
		DRAWN - TBP	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - ADB	REVISED -
	PLOT DATE = $DATE$	DATE - 07/16/2010	REVISED -

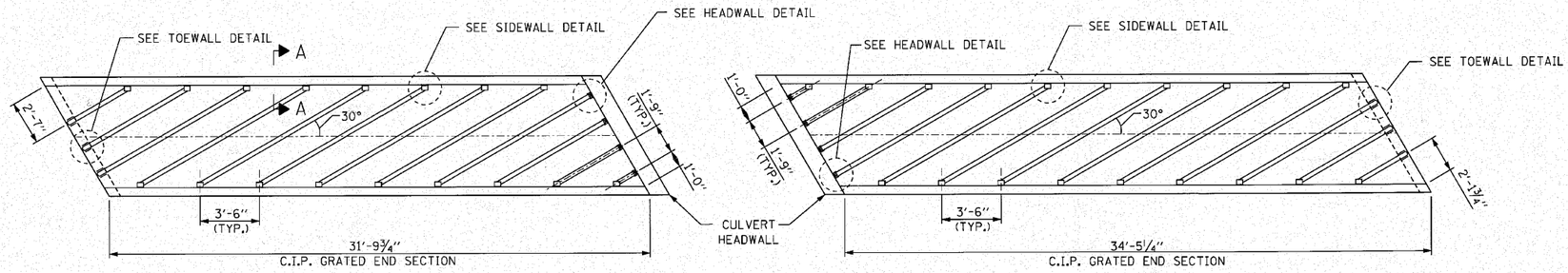
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS–2
STRUCTURE NO. 037–1085

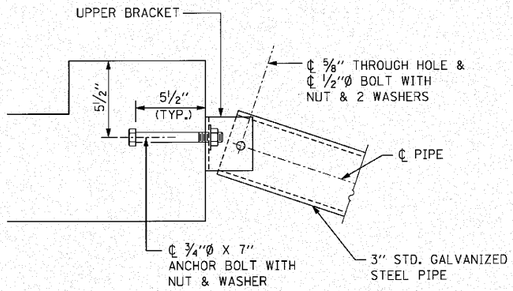
SCALE: - | SHEET NO. 3 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	53
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		

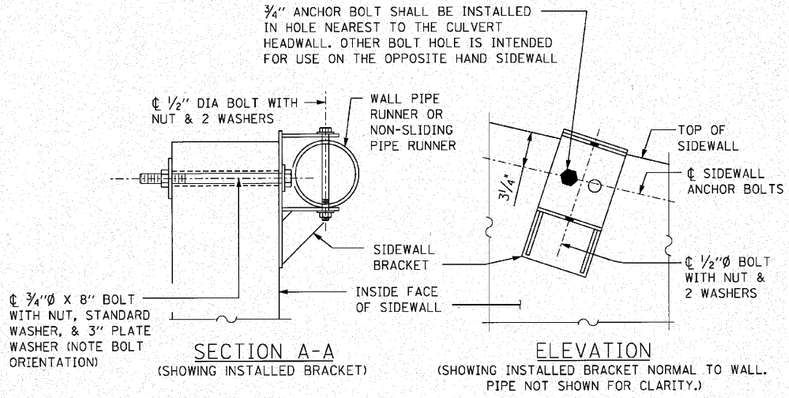
FILE NAME = $FILE$



PLAN



HEADWALL DETAIL

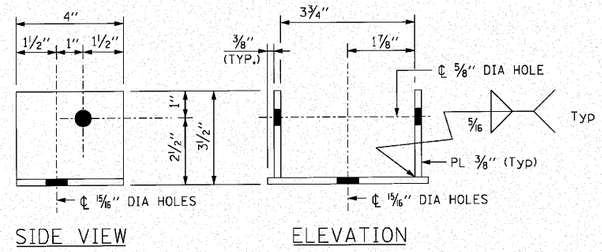


SECTION A-A
(SHOWING INSTALLED BRACKET)

ELEVATION
(SHOWING INSTALLED BRACKET NORMAL TO WALL. PIPE NOT SHOWN FOR CLARITY.)

NOTE: SIDEWALL BRACKET SHALL MATCH THE HEADWALL BRACKET SIZE.

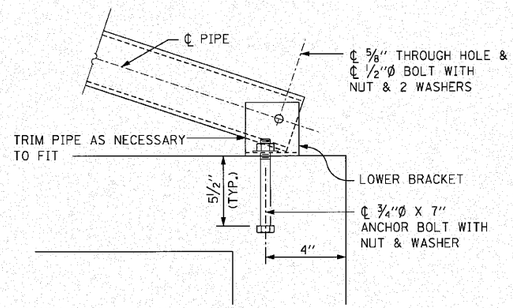
SIDEWALL BRACKET DETAILS



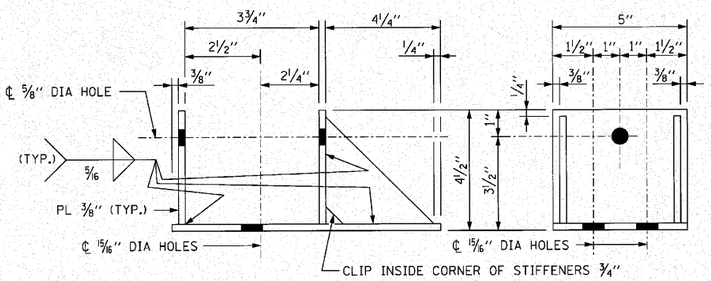
SIDE VIEW

ELEVATION

UPPER & LOWER BRACKET DETAILS



TOEWALL DETAIL



ELEVATION

SIDEVIEW

GRATING NOTES

GRATING SHALL INCLUDE THE PIPES, BRACKETS, AND HARDWARE AS SHOWN AND SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CU. YD. FOR CONCRETE BOX CULVERTS.

STEEL PIPES SHALL CONFORM TO ASTM A53, GRADE B, SCHEDULE 40, AND SHALL BE GALVANIZED CONFORMING TO ASTM A120.

BRACKETS SHALL CONFORM TO AASHTO M-183 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

BOLTS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATIONS AND SHALL BE GALVANIZED.

THE INORGANIC ZINC RICH PRIMER / ACRYLIC / ACRYLIC PAINT SYSTEM SHALL BE USED FOR FIELD PAINTING OF HOLES, THREADS, ETC.

FILE NAME = $FILE1$

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois

USER NAME = $USER$	DESIGNED - TBP	REVISED -
	DRAWN - TBP	REVISED -
PLOT SCALE = $SCALE$	CHECKED - ADB	REVISED -
PLOT DATE = $DATE$	DATE - 07/16/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRATING DETAILS
STRUCTURE NO. 037-1085

SCALE: | SHEET NO. 4 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	54
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation
Division of Highways
Wang Engineering

SOIL BORING LOG

Date 6/26/07

ROUTE FAP 638 DESCRIPTION P92-065-07 IL 82 box culvert, 1.8 m. N. of Geneseo LOGGED BY W. Garza

SECTION 129 BR-4 LOCATION Geneseo Twp. - 4 SW, SEC. , TWP. 17N, RNG. 3E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 037-1085
Station 1269+05.64

BORING NO. B-1b
Station 1268+98.64
Offset 45.00ft Rt CL
Ground Surface Elev. 589.20 ft

Surface Water Elev. 589.20 ft
Stream Bed Elev. 589.20 ft

Groundwater Elev.:
First Encounter 582.2 ft ▼
Upon Completion Wash ft
After ____ Hrs. ____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
moist tan dirty SAND				12.0
	587.70			
VERY LOOSE tan moist fine SAND		1		
		2		
	585.70	3		
LOOSE gray fine SAND	-5	1		
		2		
	583.20	3		
MEDIUM gray fine SAND ▼		3		
		5		
	580.70	6		
MEDIUM gray clean medium coarse SAND	-10	3		
		5		
	578.20	7		
MEDIUM gray clean medium coarse SAND		3		
		5		
	575.70	7		
Wash MEDIUM gray clean medium coarse SAND	-15	3		
		7		
	573.20	10		
Wash MEDIUM gray clean medium coarse SAND		4		
		7		
	570.70	14		
	-20	8		
MEDIUM gray clean medium coarse SAND with GRAVEL (continued)	568.20	10		
		13		
Wash MEDIUM gray fine SAND		1		
	565.70	4		
		7		
Wash MEDIUM gray SAND & GRAVEL with bottom 4" CLAY LOAM TILL	-25	20		
		17		
	562.70	8		
Wash STIFF gray SILTY CLAY		5		
	560.70	9	1.5	20.0
		12	S	
VERY STIFF gray SILTY CLAY	-30	3		
		7	3.3	26.0
	557.70	8	B	
Wash MEDIUM gray fine SAND		5		
		12		
	555.70	16		
Wash VERY DENSE gray fine SAND	-35	16		
		20		
	553.20	31		
End of Boring				
	-40			

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)

Illinois Department of Transportation
Division of Highways
Wang Engineering

SOIL BORING LOG

Date 6/6/07

ROUTE FAP 638 DESCRIPTION P92-065-07 IL 82 box culvert, 1.8 m. N. of Geneseo LOGGED BY W. Garza

SECTION 129 BR-4 LOCATION Geneseo Twp. - 4 SW, SEC. , TWP. 17N, RNG. 3E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 037-1085
Station 1269+05.64

BORING NO. B-2b
Station 1269+11.64
Offset 95.00ft Lt CL
Ground Surface Elev. 590.40 ft

Surface Water Elev. 589.20 ft
Stream Bed Elev. 589.20 ft

Groundwater Elev.:
First Encounter 580.9 ft ▼
Upon Completion Wash ft
After ____ Hrs. ____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
STIFF brown LOAM			1.1	17.0
	588.90		P	
MEDIUM tan fine SAND		5		
		5		
	586.90	6		
VERY LOOSE tan moist fine SAND	-5	3		
		2		
	584.40	2		
	581.90			
VERY LOOSE gray moist fine SAND ▼	-10	1		
		2		
	579.40	2		
	576.90			
Wash MEDIUM gray clean medium coarse SAND	-15	5		
		7		
	574.40	10		
	571.90			
	-20	4		
MEDIUM gray clean medium coarse SAND (continued)	569.40	7		
		10		
	566.90			
Wash MEDIUM gray clean medium coarse SAND with GRAVEL	-25	4		
		5		
	564.40	12		
	561.40			
Wash VERY STIFF gray SILTY CLAY	-30	5		
		7	2.3	20.0
	559.40	12	S	
Wash HARD gray SILTY CLAY		7		
		9	4.1	19.0
	556.90	14	B	
VERY STIFF gray SILTY CLAY	-35	9		
		10	3.1	21.0
	554.40	13	B	
End of Boring				
	-40			

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)

FILE NAME = $FILE$

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois

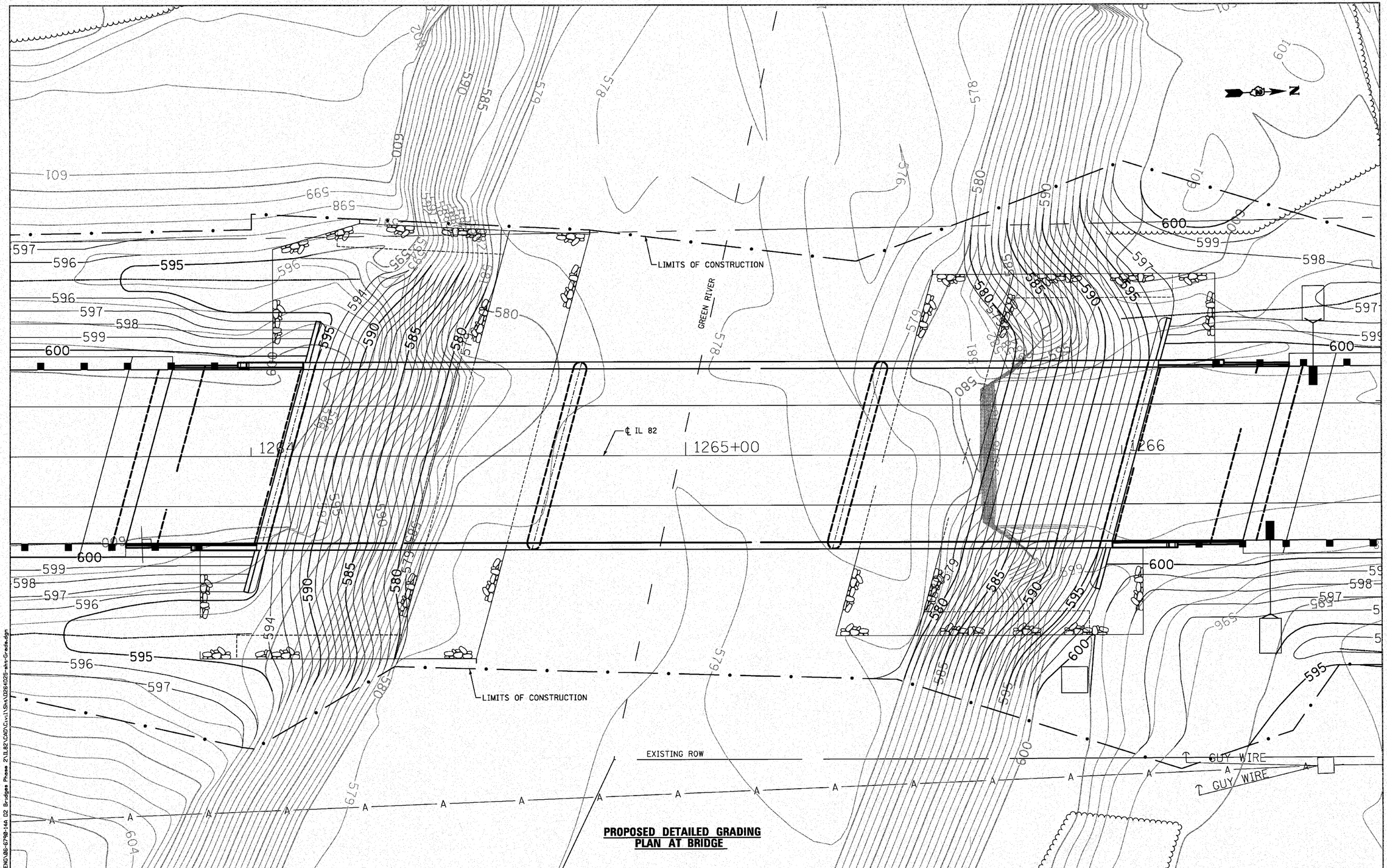
USER NAME = $USER$	DESIGNED - TBP	REVISED -
	DRAWN - TBP	REVISED -
PLOT SCALE = $SCALE$	CHECKED - AOB	REVISED -
PLOT DATE = $DATE$	DATE - 07/16/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 037-1085

SCALE: | SHEET NO. 5 OF 5 SHEETS | STA. - TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	55
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		



PROPOSED DETAILED GRADING PLAN AT BRIDGE

FILE NAME = G:\ENG\06-6798-14A D2 Bridges Phase 2\IL82\CADD\Civil\Sht\D2614025-sht-Grade.dgn

Wight

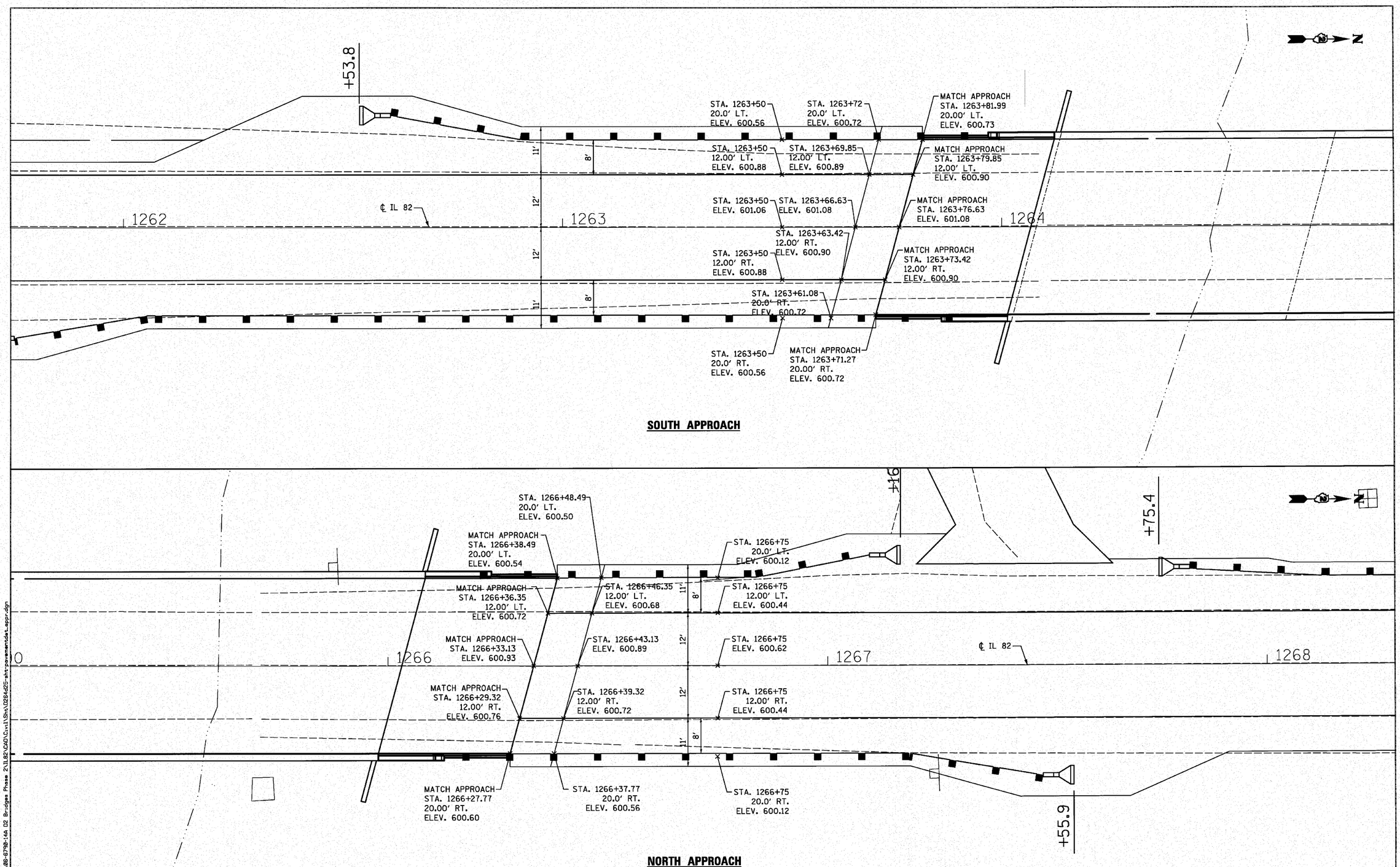
USER NAME = #USER#	DESIGNED - JNH	REVISED -
	DRAWN - JNH	REVISED -
PLOT SCALE = #SCALE#	CHECKED - KMB	REVISED -
PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED DETAILED GRADING PLAN AT BRIDGE
IL 82 OVER GREEN RIVER

SCALE: 1"=10' | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	56
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			



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		DRAWN - MWS	REVISED -
	PLOT SCALE = @SCALE@	CHECKED - KMB	REVISED -
	PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -

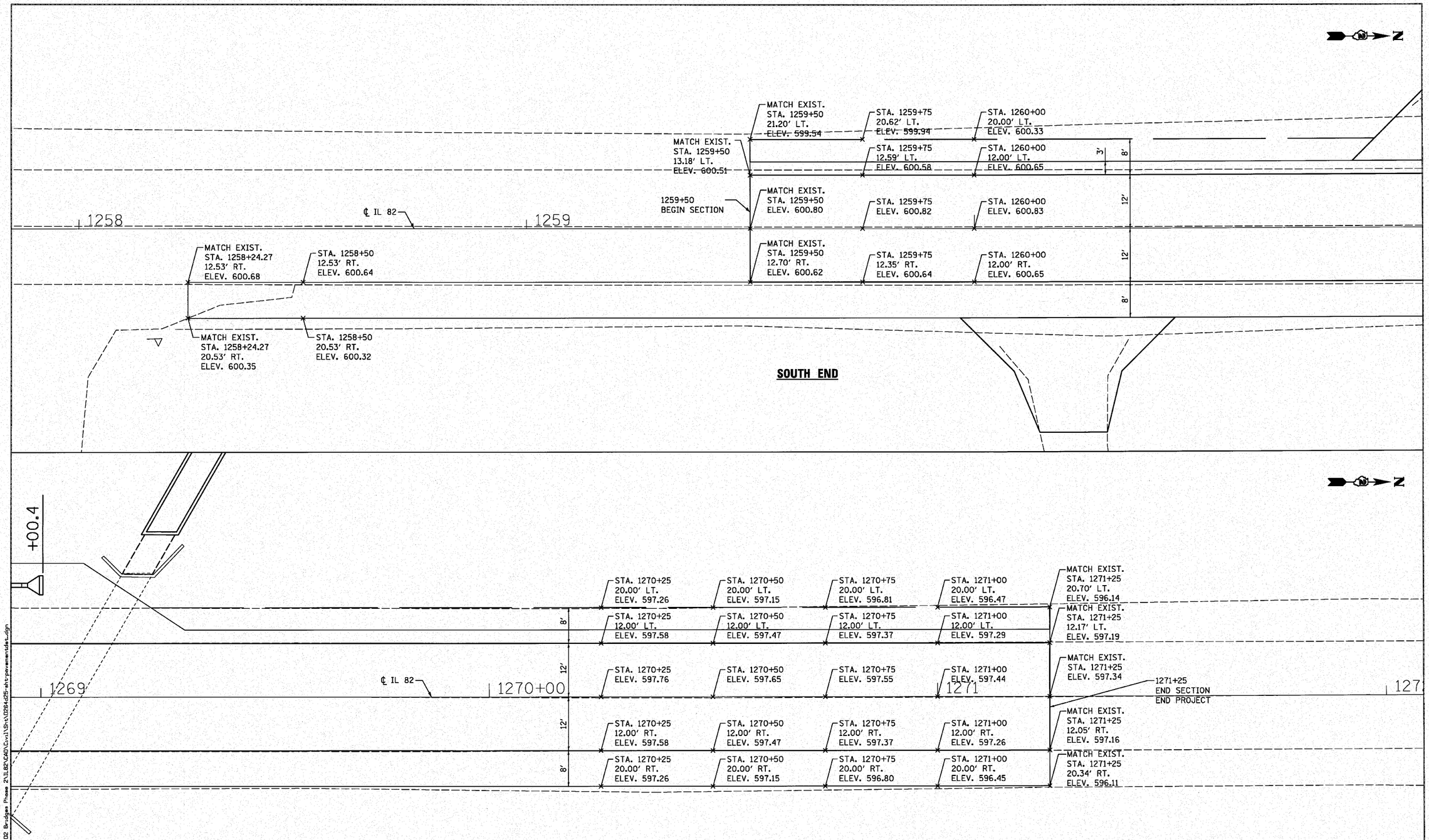
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT DETAILED GRADING – BRIDGE CONNECTOR
IL 82 OVER GREEN RIVER

SCALE: 1"=10' | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	57
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

FILE NAME = G:\ENG\08-6798-14A 02 Bridges Phase 2\IL82\CADD\civil\Sht\D284d25-sht-pavementdet_appr.dgn



FILE NAME = G:\ENG\V86-6798-144 D2 Bridges Phase 2\IL82\CADD\Civil\Sht\D284d25-sht-pavementdet.dgn

Wight

USER NAME = *USER*	DESIGNED - KAC	REVISED -	
	DRAWN - MWS	REVISED -	
PLOT SCALE = *SCALE*	CHECKED - KMB	REVISED -	
PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -	

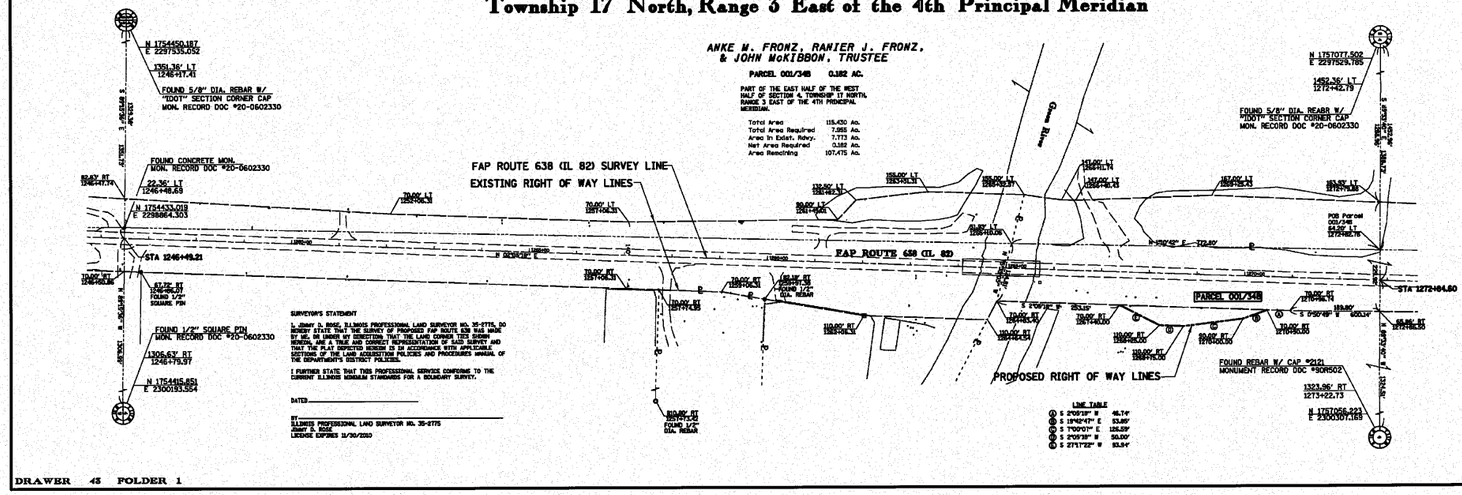
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT DETAILED GRADING – TRANSITIONS
IL 82 OVER GREEN RIVER

SCALE: 1" = 10' | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

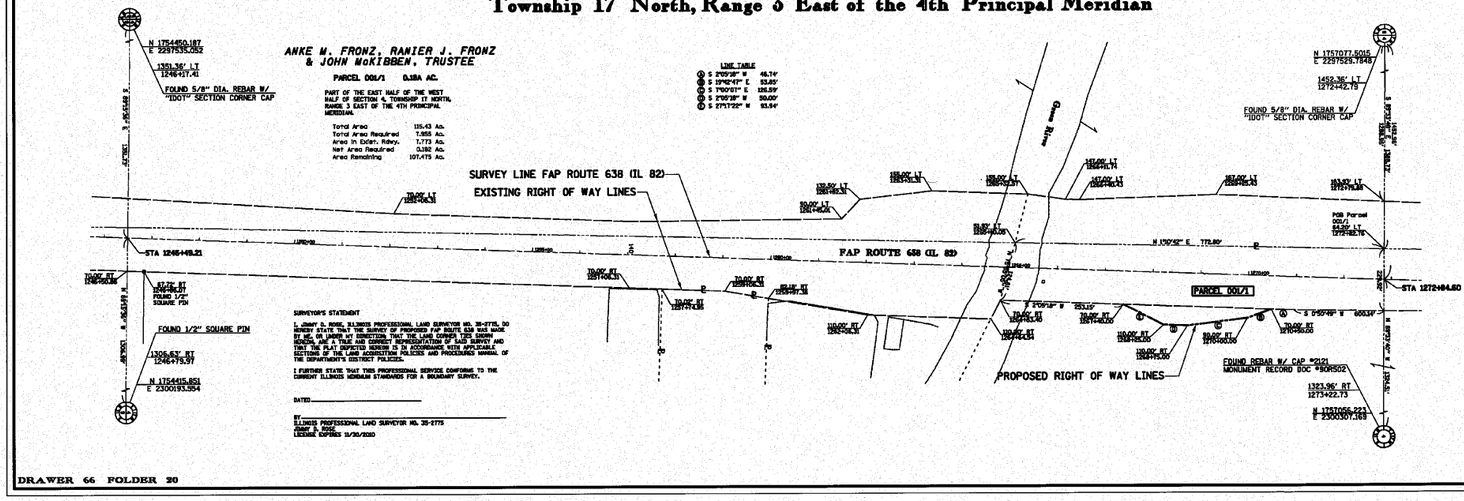
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	58
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		

Township 17 North, Range 3 East of the 4th Principal Meridian



DRAWER 43 FOLDER 1

Township 17 North, Range 3 East of the 4th Principal Meridian

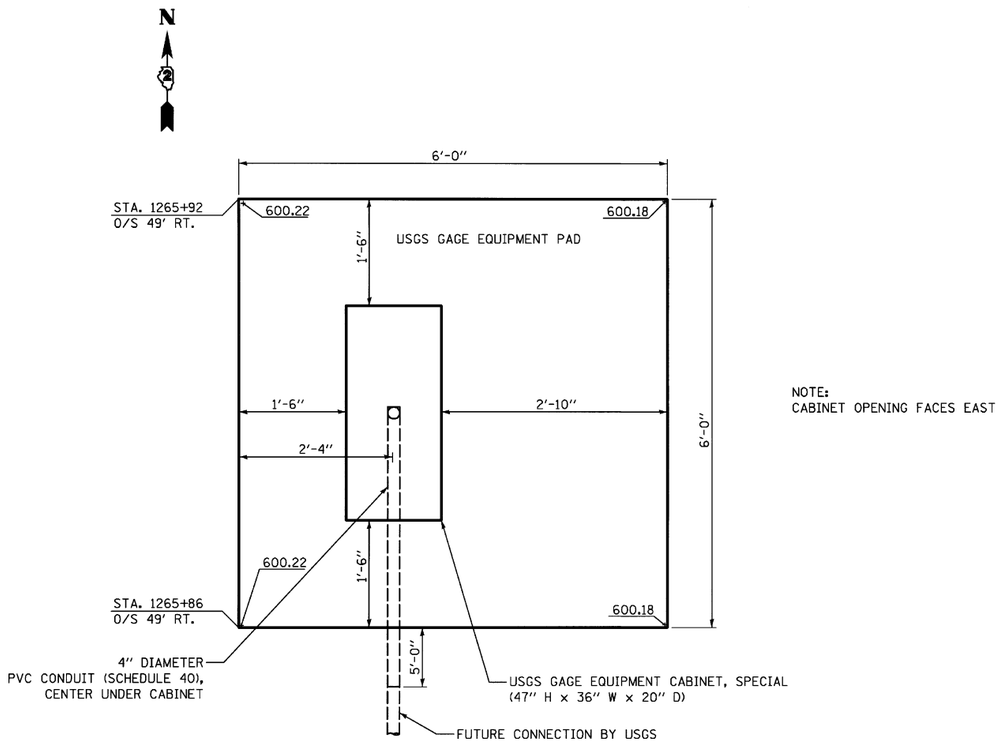


DRAWER 66 FOLDER 20

FILE NAME = G:\ENGD\85-6790-144 D2 Bridges Phase 2\ILB2\CADD\civil\Sht\D264d25-shtrowdgn

Wight	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIGHT OF WAY PLAT IL 82 OVER GREEN RIVER	F.A.P. RTE.	SECTION
		DRAWN -	REVISED -			638	129BR-4
	PLOT SCALE = *SCALE*	CHECKED -	REVISED -				
	PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -		SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.		

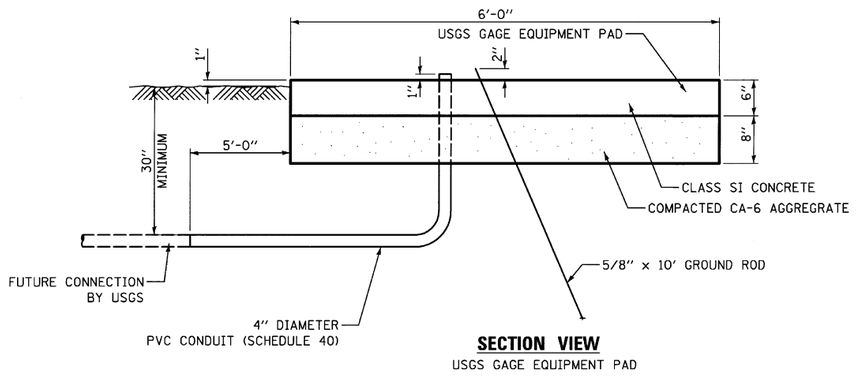
COUNTY	TOTAL SHEETS	SHEET NO.
HENRY	93	59
CONTRACT NO. 64D25		
ILLINOIS FED. AID PROJECT		



NOTE:
CABINET OPENING FACES EAST

PLAN VIEW

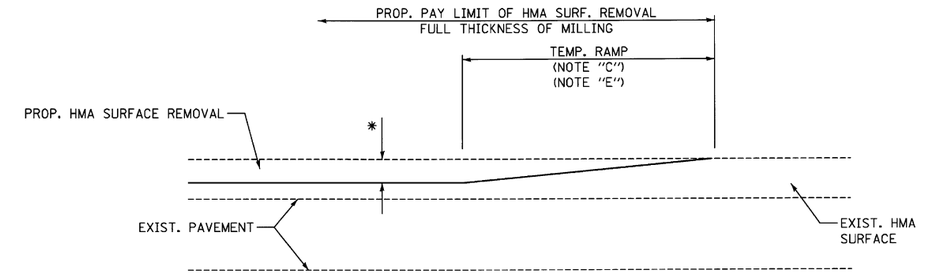
USGS GAGE EQUIPMENT PAD



SECTION VIEW

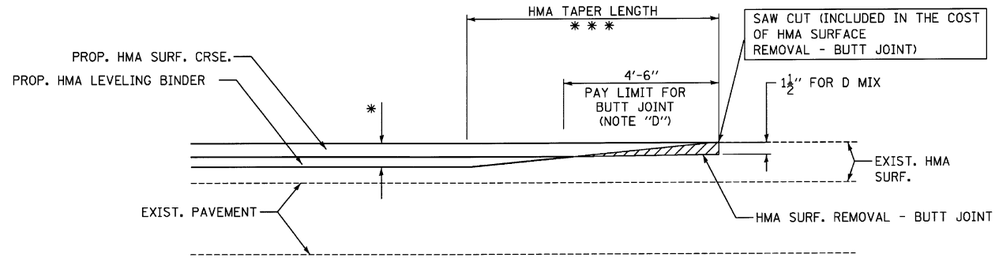
USGS GAGE EQUIPMENT PAD

USGS GAGE EQUIPMENT PAD DETAIL



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

NOTES

A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B: MINOR SIDE ROADS.

C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E: TAPER THE TEMP. RAMP AT A RATE OF 40" PER 1" OF MILLING THICKNESS.

F: INSTALLATION AND REMOVAL OF THE 4'-6" TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT.

G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICTIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

*** 30'-0" PER 1" RESURFACING (NOTE "A")
10'-0" PER 1" RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

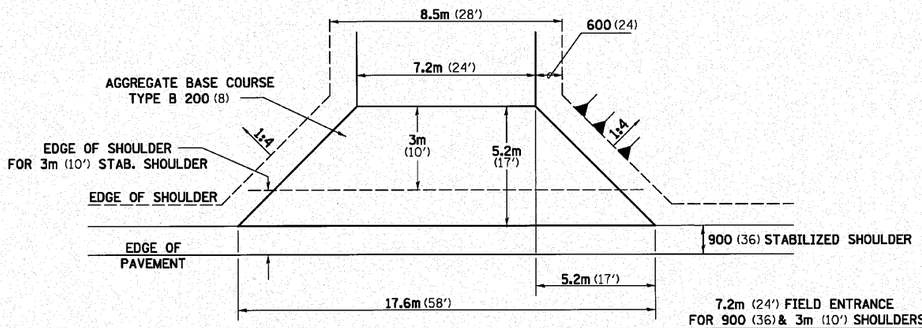
BUTT JOINT DETAIL

FILE NAME = G:\ENG\06-6790-140 02 Bridges Phase 2\ILB2\CADD\Cv\1\Sht\D2864d25-sht-USGS_DET.dgn

Wight	USER NAME = *USER*	DESIGNED - KAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONSTRUCTION DETAILS IL 82 OVER GREEN RIVER
		DRAWN - JNH	REVISED -		
	PLOT SCALE = *SCALE*	CHECKED - KMB	REVISED -		
	PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -		SCALE: NTS | SHEET NO. 1 OF 1 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	60
		CONTRACT NO. 64D25		
	ILLINOIS	FED. AID PROJECT		

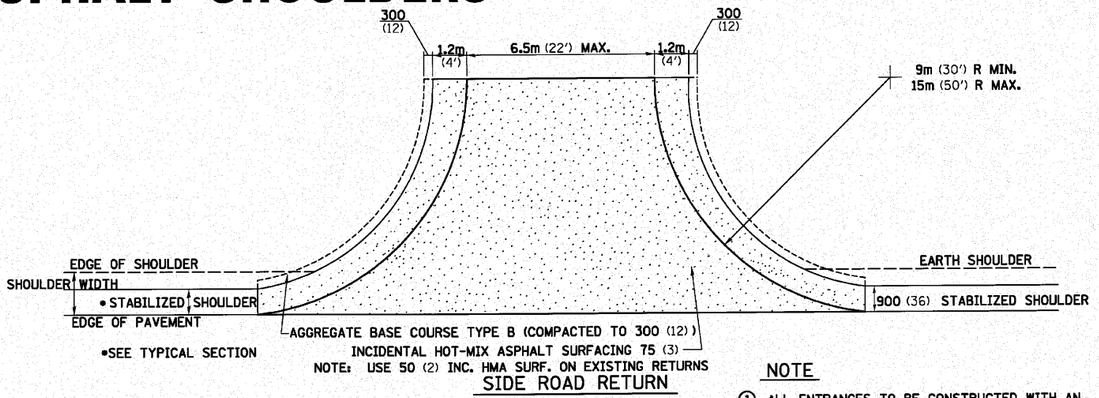
ENTRANCES, SIDEROADS, AND MAILBOX RETURNS WITH 3' OR 10' HOT-MIX ASPHALT SHOULDERS



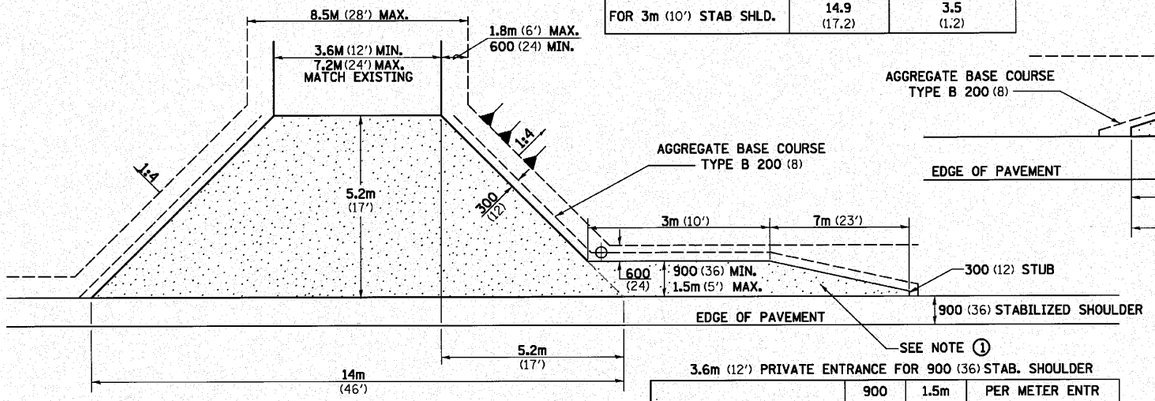
FIELD ENTRANCE

7.2m (24') FIELD ENTRANCE FOR 900 (36) & 3m (10') SHOULDERS

AGG BASE CSE TYPE B M TON (TON)	APRON M TON (TON)	PER METER (FOOT) ADD. RUN
FOR 900 (36) STAB SHLD.	31.3 (35.3)	3.5 (1.2)
FOR 3m (10') STAB SHLD.	14.9 (17.2)	3.5 (1.2)



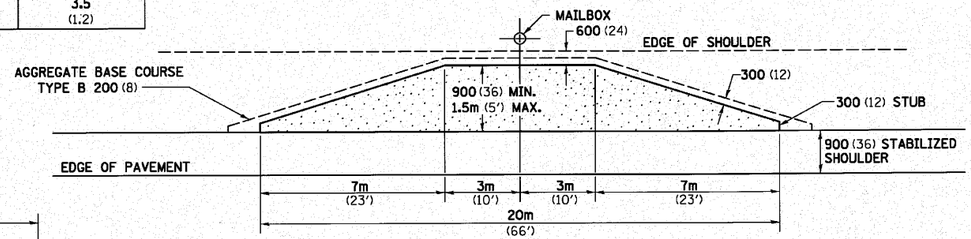
SIDE ROAD RETURN



PRIVATE ENTRANCE FOR 900 (36) STAB. SHOULDERS

3.6m (12') PRIVATE ENTRANCE FOR 900 (36) STAB. SHOULDER

	900 (36)	1.5m (5')	PER METER ENTR (FOOT)
AGG BASE CSE (TON)	29.4 (32.4)	30.8 (33.9)	0.64 (0.7)
INC HMA SURF 50 (2) (TON)	7.8 (8.6)	8.4 (9.3)	0.17 (0.19)
BIT PRIME COAT (TON)	0.08 (0.09)	0.09 (0.10)	0.006 (0.002)

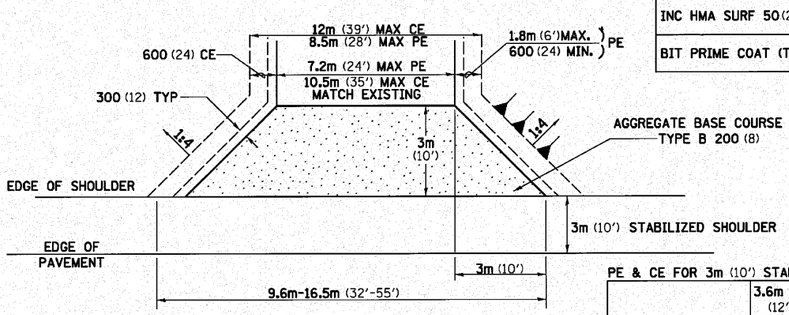


MAILBOX TURNOUT

	900 (36)	1.5m (5')
AGG BASE CSE T-B (TON)	10.7 (11.8)	14.4 (15.9)
INC BIT SURF 50 (2) (TON)	2.2 (2.4)	3.4 (3.8)
BIT PRIME COAT (TON)	0.02 (0.02)	0.04 (0.04)

NOTE

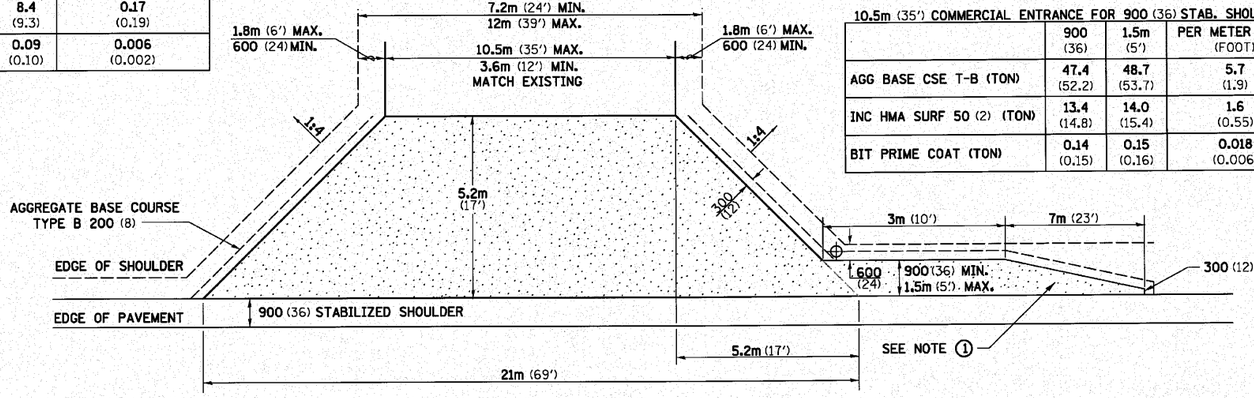
1. ALL ENTRANCES TO BE CONSTRUCTED WITH AN 8" AGGREGATE BASE COURSE, TYPE B AND WITH A 2" INCIDENTAL HOT-MIX ASPHALT SURFACING, UNLESS OTHERWISE NOTED.
2. TURNOUTS ARE TO BE CONSTRUCTED ON THE APPROACH SIDE OF ALL PE & CE REGARDLESS IF A MAILBOX IS PRESENT.
3. ALL PE & CE ARE TO BE SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.
4. FE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN WHICH EVER IS GREATER.
5. QUANTITIES SHOWN ARE FOR NEW CONSTRUCTION.
6. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



PE & CE FOR 3m (10') STAB. SHOULDER

PE & CE FOR 3m (10') STAB. SHOULDER

	3.6m PE (12')	10.5m CE (35')
AGG BASE CSE (TON)	11.4 (12.6)	21.9 (24.2)
INC HMA SURF (TON)	3.1 (3.4)	6.3 (7.0)
PRIME (TON)	0.04 (0.04)	0.06 (0.07)



CE FOR 900 (36) STAB. SHOULDERS

10.5m (35') COMMERCIAL ENTRANCE FOR 900 (36) STAB. SHOULDER

	900 (36)	1.5m (5')	PER METER ENTR (FOOT)
AGG BASE CSE T-B (TON)	47.4 (52.2)	48.7 (53.7)	5.7 (1.9)
INC HMA SURF 50 (2) (TON)	13.4 (14.8)	14.0 (15.4)	1.6 (0.55)
BIT PRIME COAT (TON)	0.14 (0.15)	0.15 (0.16)	0.018 (0.006)

FILE NAME = G:\ENG\06-6790-14A D2 Bridges Phase 2\IL82\CAD\Civil\Sht\D264d25-sht-DIS2_STAND21.dgn	USER NAME = *USER*	DESIGNED - ___	REVISED - 1-15-08
		DRAWN - ___	REVISED - ___
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	PLOT DATE = 10/28/2010	DATE - _____	REVISED - ___

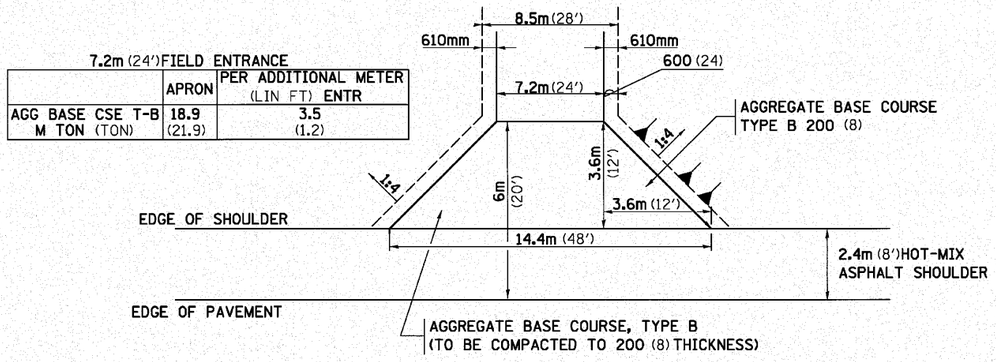
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: _____ | SHEET NO. 1 OF 9 SHEETS | STA. _____ TO STA. _____

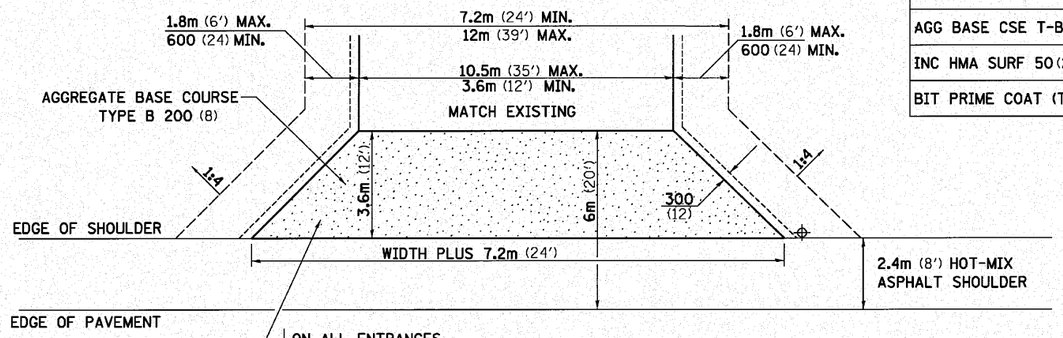
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	61
		CONTRACT NO. 64D25		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

ENTRANCE AND SIDEROADS WITH 2.4m (8') HOT-MIX ASPHALT SHOULDERS



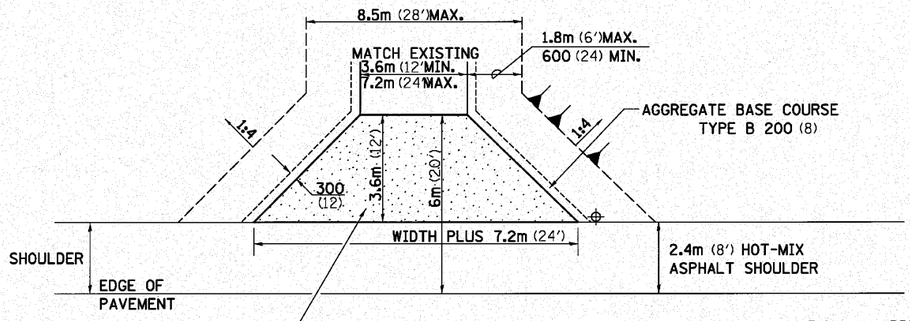
7.2m (24') FIELD ENTRANCE	APRON	PER ADDITIONAL METER (LIN FT) ENTR
AGG BASE CSE T-B M TON (TON)	18.9 (21.9)	3.5 (1.2)

FIELD ENTRANCE



COMMERCIAL ENTRANCE

COMMERICAL ENTRANCE	3.6m (12')	10.5m (35')	PER METER ENTR (FOOT) 3.6m (12')	10.5m (35')
AGG BASE CSE T-B (TON)	14.3 (15.8)	27.0 (29.8)	0.64 (0.70)	1.70 (1.87)
INC HMA SURF 50 (2) (TON)	3.3 (3.6)	6.35 (7.0)	0.14 (0.15)	0.40 (0.44)
BIT PRIME COAT (TON)	0.042 (0.046)	0.082 (0.090)	0.002 (0.002)	0.005 (0.006)

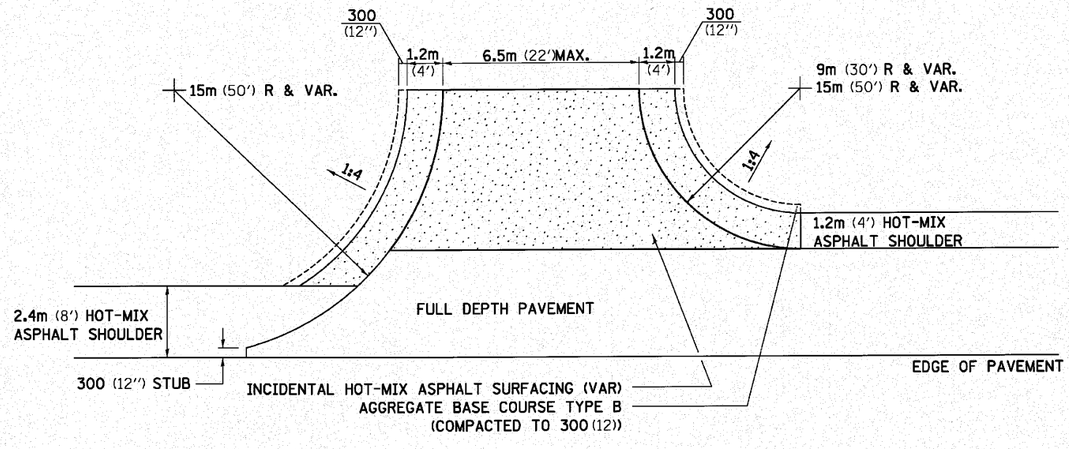


PRIVATE ENTRANCE

3.6m (12') PRIVATE ENTRANCE	3.6m (12')	7.2m (24')	PER METER ENTR (FOOT) 3.6m (12')	7.2m (24')
AGG BASE CSE T-B (TON)	14.3 (15.8)	21.0 (23.1)	0.64 (0.70)	1.20 (1.32)
INC HMA SURF 50 (2) (TON)	3.3 (3.6)	4.9 (5.4)	0.14 (0.15)	0.27 (0.30)
BIT PRIME COAT (TON)	0.042 (0.046)	0.063 (0.069)	0.002 (0.002)	0.004 (0.004)

NOTE

1. ALL PE & CE ARE TO BE INCIDENTAL HOT-MIX ASPHALT SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.
2. FE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN, WHICH EVER IS GREATEST.
3. QUANTITIES ARE CALCULATED WITH 2.4m HOT-MIX ASPHALT SHOULDER IN PLACE. AGGREGATE QUANTITIES SHOWN ARE FOR NEW CONSTRUCTION.
4. EXCAVATION REQUIRED FOR PLACEMENT OF AGGREGATE BASE COURSE SHALL BE CONSIDERED INCLUDED TO THE AGGREGATE BASE COURSE.
5. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



SIDE ROAD RETURN

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED - 1-15-08
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	PLOT SCALE = *SCALE*	CHECKED -	REVISED -
	PLOT DATE = 10/28/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

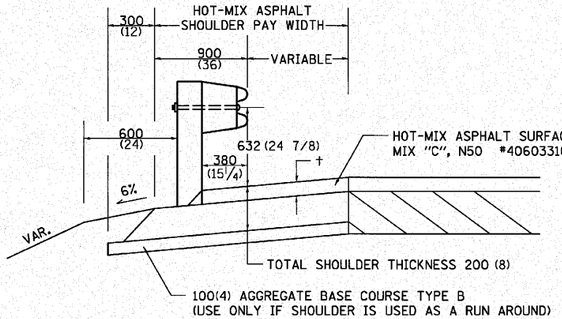
REGION 2 / DISTRICT 2 STANDARD

SCALE: _____ | SHEET NO. 2 OF 9 SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	62
		CONTRACT NO. 64D25		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

ENTRANCE AND SIDEROADS WITH 2.4m (8') HOT-MIX ASPHALT SHOULDERS 22.1

DETAIL OF HOT–MIX ASPHALT SHOULDER AT GUARD RAIL



† = SEE TYPICAL SECTIONS FOR THICKNESS

GENERAL NOTES

THE TOP LIFT SHALL NOT BE PLACED BEHIND THE GUARDRAIL POSTS. WHEN PLACING THE TOP LIFT THE RAIL MUST BE REMOVED FROM THE POSTS. THE POST SHALL NOT BE REMOVED.

THE HEIGHT OF THE GUARD RAIL SHALL BE SET **632** (24⅞) FROM THE FINISHED SURFACE.

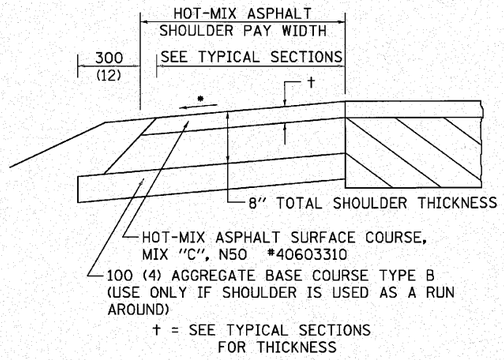
THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIXTURE "C", N50 AND SQUARE METER (SQUARE YARD) FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED. THE REMOVAL & REINSTALLATION OF THE GUARDRAIL WILL BE INCLUDED IN THE COST OF THE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50.

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

REVISED - 11-01-07

DETAIL OF HOT–MIX ASPHALT SHOULDER AT GUARD RAIL 23.4

HOT–MIX ASPHALT SHOULDER



† = SEE TYPICAL SECTIONS FOR THICKNESS

GENERAL NOTES

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 *40603310. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 *40603310 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED.

USE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 *40603310. WHEN RESURFACING EXISTING HOT-MIX ASPHALT SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 *40603310.

REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

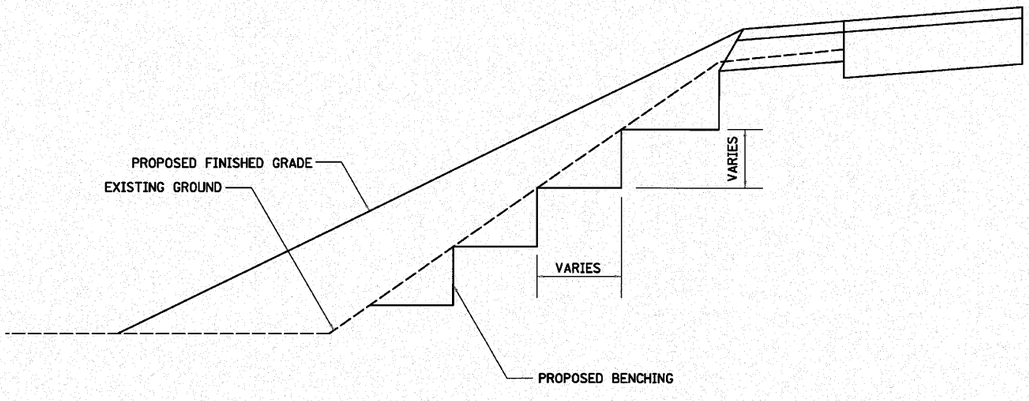
* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

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

REVISED - 11-01-07

HOT–MIX ASPHALT SHOULDER 23.4a

TYPICAL BENCHING ON EXISTING EMBANKMENT



REVISED - 2-22-06

TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

TREE REPLACEMENT SCHEDULE

CODE NUMBER	SCIENTIFIC NAME	COMMON NAME	SIZE	UNIT	QUANTITY
A2001714	ACER SACCHARUM	SUGAR MAPLE	1¾" BB	EACH	6
A2006514	QUERCUS BICOLOR	SWAMP WHITE OAK	1¾" BB	EACH	11

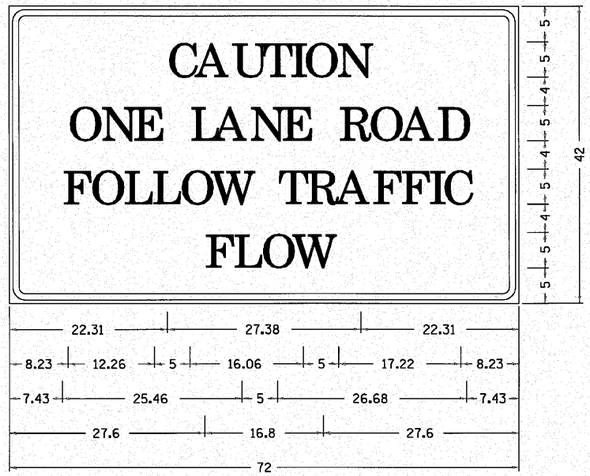
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TREE REPLACEMENT SCHEDULE 90.4

REVISED - 8-10-05	REGION 2 / DISTRICT 2 STANDARD		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED - ___			638	129BR-4	HENRY	93 / 63
REVISED - ___					CONTRACT NO. 64D25	
REVISED - ___	SCALE: @SCALE@ ___	SHEET NO. 3 OF 9 SHEETS	STA. _____	TO STA. _____	FED. ROAD DIST. NO. _	ILLINOIS / FED. AID PROJECT

PLOT DATE = 10/28/2010

ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS



Type AA Fluorescent Orange Sheeting ;
2.25" Radius, 0.88" Border, 0.50" Indent, Black on Orange;
[CAUTION] D; [ONE LANE ROAD] D;
[FOLLOW TRAFFIC] D; [FLOW] D

Table Of Widths And Spaces

	C		A		U		T		I		O		N								
22.31	3.36	0.62	4.18	0.94	3.36	0.94	3.04	0.94	0.78	1.17	3.52	1.17	3.36	22.31							
	O		N		E																
8.23	3.51	1.17	3.36	1.18	3.04																
		L		A		N		E													
	5.00	3.05	0.31	4.18	0.94	3.36	1.17	3.05													
		R		O		A		D													
	5.00	3.36	0.93	3.52	0.94	4.18	0.93	3.36	8.23												
	F		O		L		L		O		W										
7.43	3.04	0.94	3.52	1.17	3.04	0.94	3.05	0.94	3.51	0.94	4.37										
		T		R		A		F		F		I		C							
	5.00	3.05	0.94	3.36	0.94	4.18	0.93	3.05	0.94	3.04	0.94	0.78	1.18	3.35	7.43						
	F		L		O		W														
27.60	3.05	0.94	3.04	0.94	3.52	0.93	4.38	27.60													

GENERAL NOTES

THIS SIGN SHALL BE INSTALLED AT ENTRANCES LOCATED BETWEEN THE TEMPORARY SIGNALS AS DIRECTED BY THE ENGINEER.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

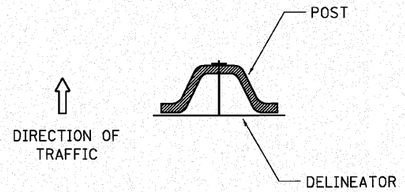
THE COST TO FURNISH, INSTALL AND REMOVE THIS SIGN AT THE REQUIRED LOCATIONS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

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

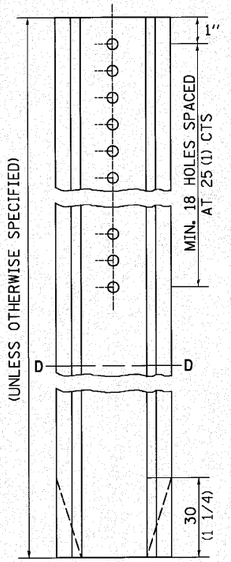
REVISED - 10-28-05

ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS 75.2

DELINEATOR AND POST ORIENTATION



SECTION D-D



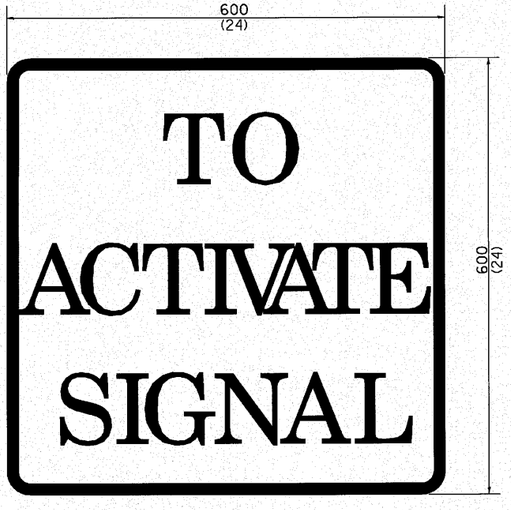
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180° . THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHECD AS SHOWN ABOVE.

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

REVISED - 11-01-07

DELINEATOR AND POST ORIENTATION 37.4

STOP LINE SIGN FOR TEMPORARY SIGNALS



SIZE: 600(24) x 600(24)

100(4) CAPITAL LETTERS - BLACK

13(1/2) BORDER - BLACK

WHITE REFLECTIVE - TYPE AP
HIGH INTENSITY PRISMATIC SHEETING

GENERAL NOTE:

THIS SIGN SHALL BE INSTALLED AT THE STOP LINE AS DIRECTED BY ENGINEER.

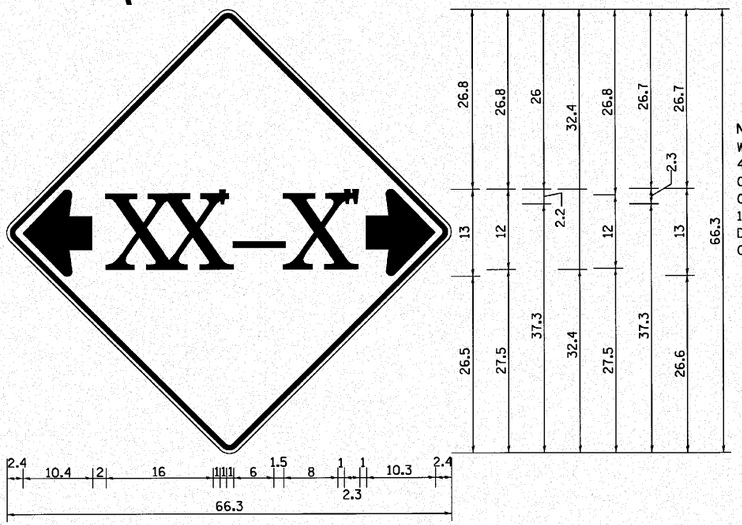
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

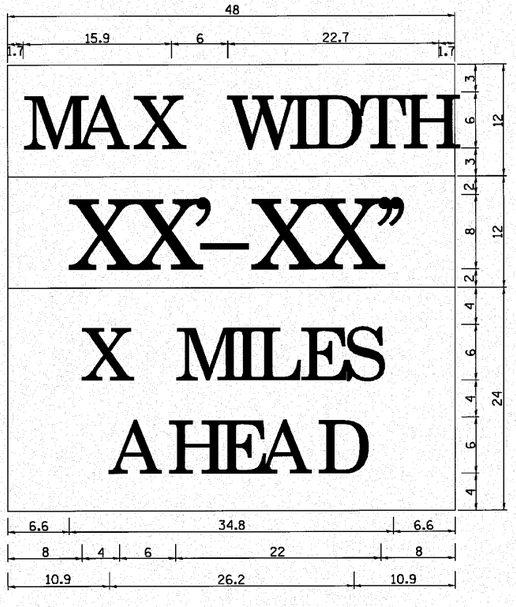
STOP LINE SIGN FOR TEMPORARY SIGNALS 99.4

REVISED - 1-22-07	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - ___		638	129BR-4	HENRY	93	64
REVISED - ___				CONTRACT NO. 64D25		
REVISED - ___	SCALE: #SCALE# ___ SHEET NO. 4 OF 9 SHEETS STA. _____ TO STA. _____	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

PLOT DATE = 10/28/2010

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)





NOTES

W12-2 - Horizontal Clearance Sign 48.0" across sides, 1.9" Radius, 0.8" Border, 0.5" Indent, Black on Orange; Standard Arrow Custom 10.4" X 8.1" 180° Black 11 Inch D Series Lettering; Standard Arrow Custom 10.4" X 8.1" 0°

W12-I103 (Width Is 8D); No border, Black on White; [MAX WIDTH] D;

No border, Black on Orange; [XX'-XX"] D;

No border, Black on White; [X MILES] D; [AHEAD] D;

All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

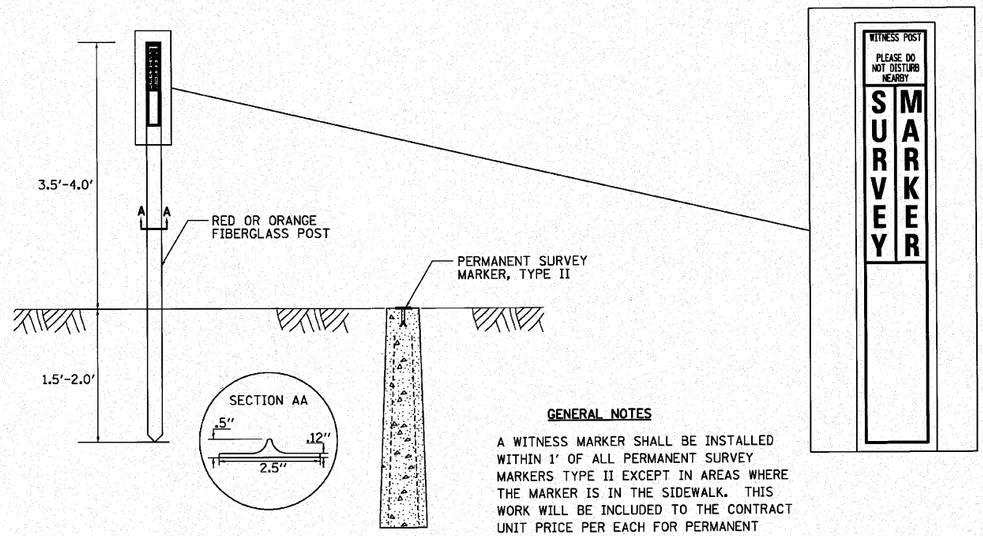
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 5-15-09

INFORMATIONAL WARNING SIGNS (FOR NARROW TRAVEL LANES) 39.2

WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II

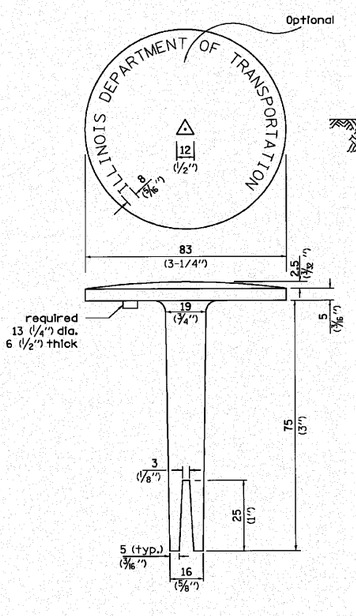
66.2



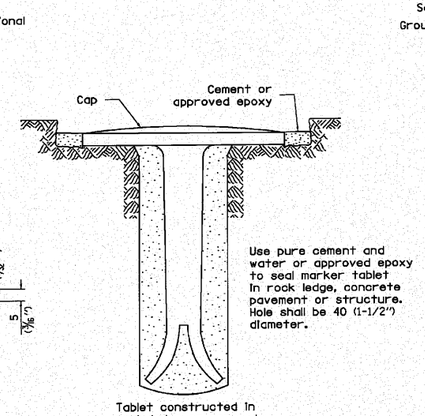
GENERAL NOTES

A WITNESS MARKER SHALL BE INSTALLED WITHIN 1' OF ALL PERMANENT SURVEY MARKERS TYPE II EXCEPT IN AREAS WHERE THE MARKER IS IN THE SIDEWALK. THIS WORK WILL BE INCLUDED TO THE CONTRACT UNIT PRICE PER EACH FOR PERMANENT SURVEY MARKERS, TYPE II.

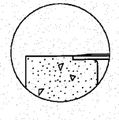
PERMANENT SURVEY MARKERS, TYPE II



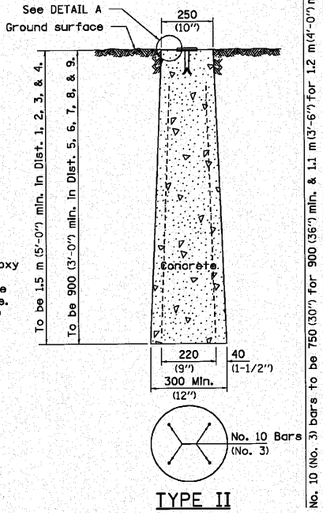
BRASS OR ALUMINUM TABLET



TYPE II



DETAIL A



TYPE II

CAST-IN-PLACE MARKER

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

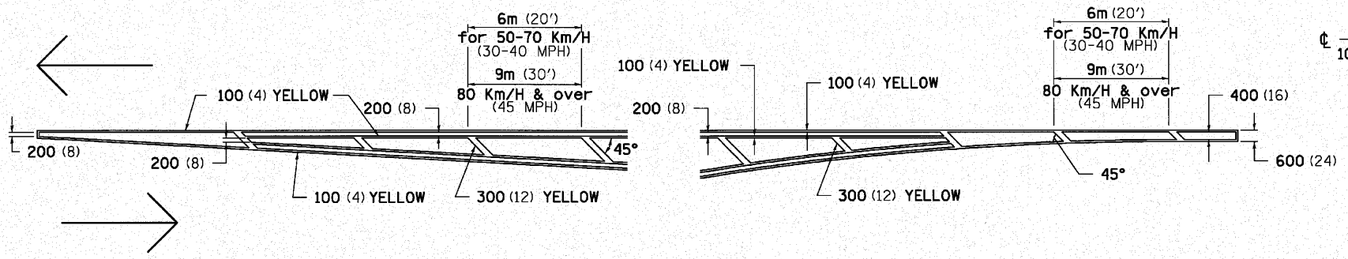
REVISED - 10-21-08	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - ___		638	129BR-4	HENRY	93	65
REVISED - ___				CONTRACT NO. 654D25		
REVISED - ___	SCALE: #SCALE# ___ SHEET NO. 5 OF 9 SHEETS STA. _____ TO STA. _____	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

PLOT DATE = 10/28/2010

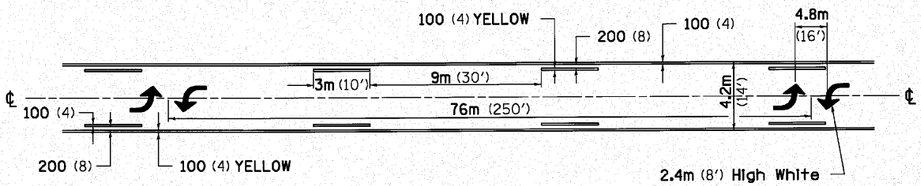
WITNESS MARKER & PERMANENT SURVEY MARKERS, TYPE II 66.2

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

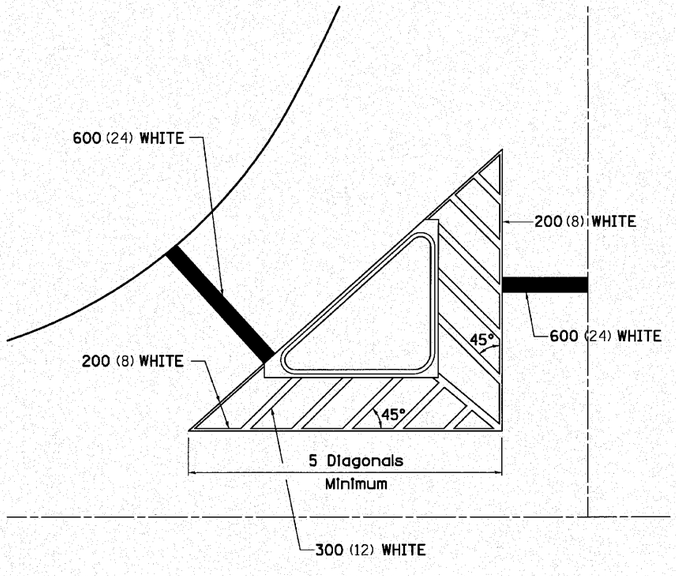


MEDIAN PAVEMENT MARKING



** ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

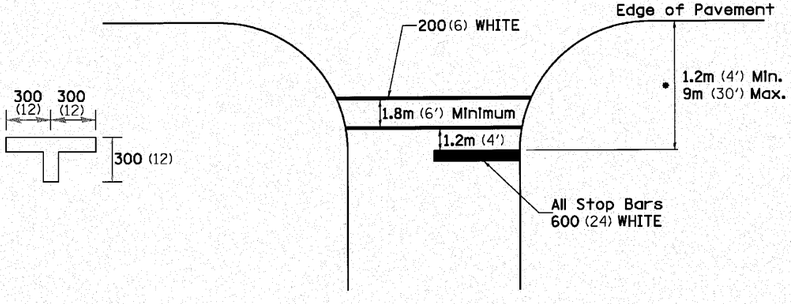
TYPICAL ISLAND OFFSET SHOULDER WIDTH



TYPICAL PARKING SPACING

STANDARD CROSSWALK MARKING

See Schedules for Locations



* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

TYPICAL PAVEMENT MARKINGS SHEET 1 OF 3 41.1

FILE NAME = G:\ENG\06-6798-14A D2 Bridges Phase 2\IL82\CAD\Civil\Sht\D264d25-sht-DIS2_STAND41.1.dgn	USER NAME = *USER*	DESIGNED - ___	REVISED - 10-21-08
		DRAWN - ___	REVISED - ___
	PLOT SCALE = *SCALE*	CHECKED - ___	REVISED - ___
	PLOT DATE = 10/28/2010	DATE - _____	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

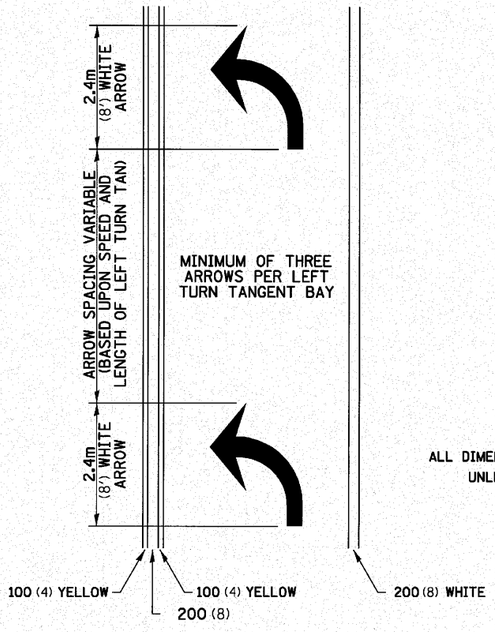
REGION 2 / DISTRICT 2 STANDARD

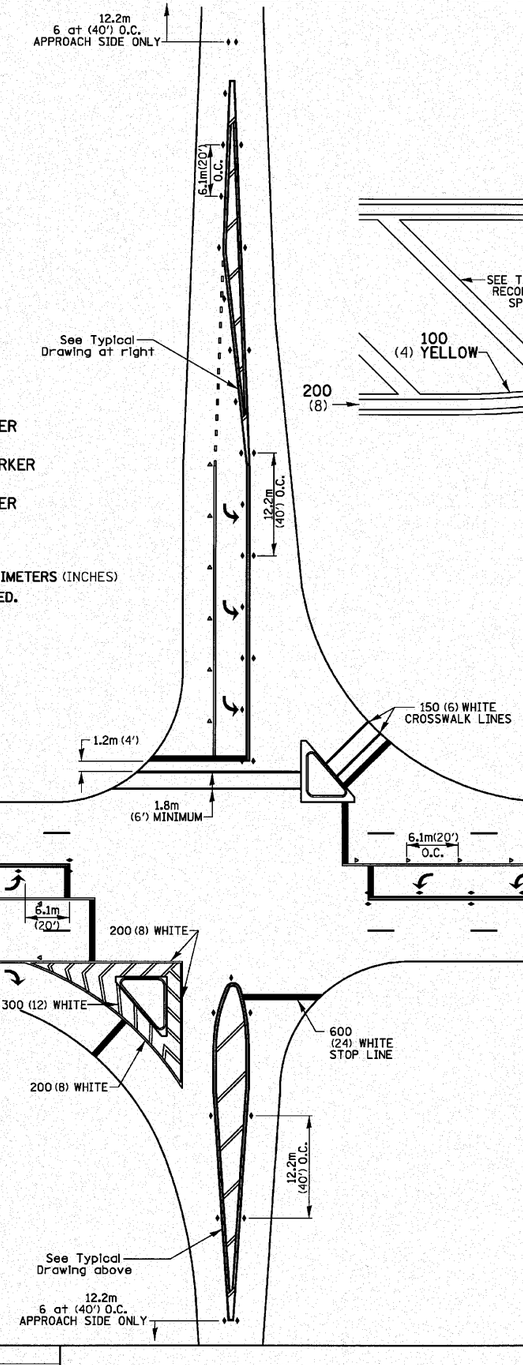
SCALE: _____ | SHEET NO. 6 OF 9 SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	66
		CONTRACT NO. 64D25		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

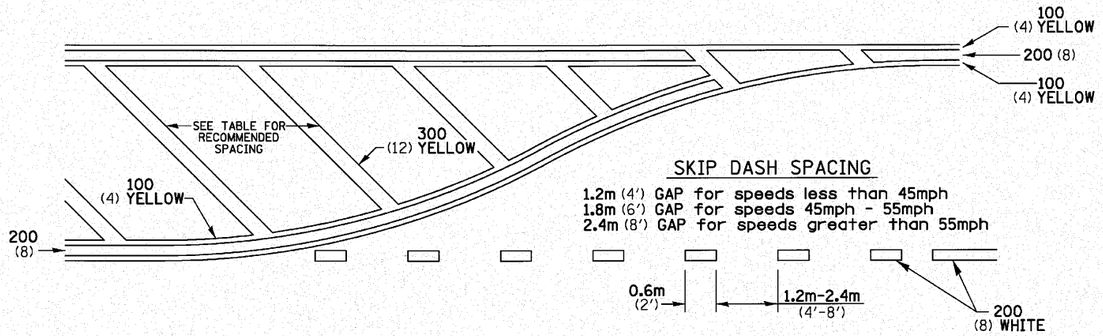
ARROW LAYOUT





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

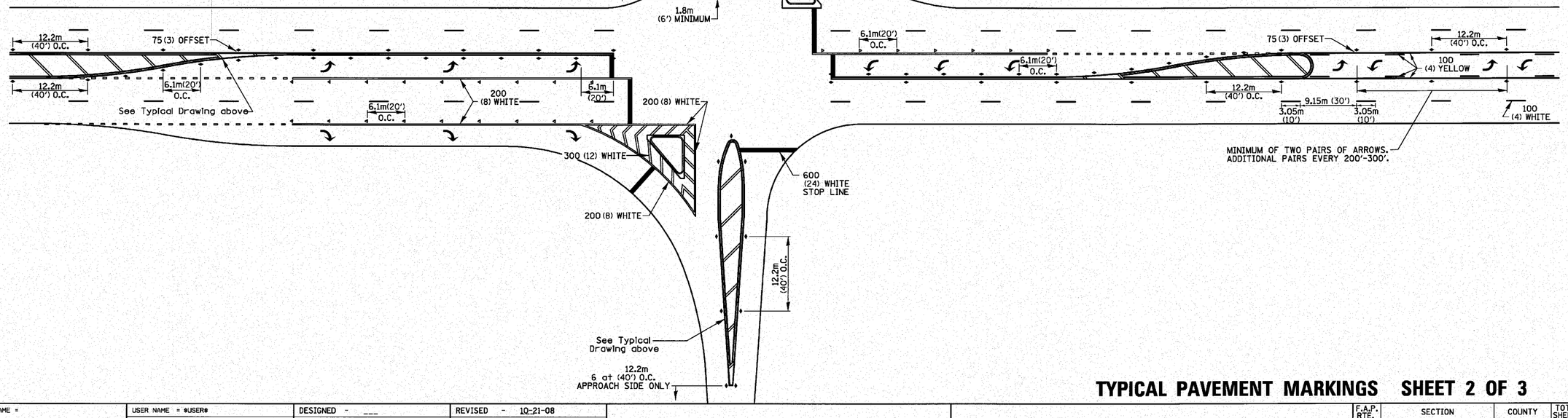
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50Km/H (30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60Km/H (30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70Km/H (45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

NOTE: If the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



TYPICAL PAVEMENT MARKINGS SHEET 2 OF 3 41.1

FILE NAME = G:\ENG\06-6798-14A D2 Bridges Phase 2\IL82\CAD\Civil\Sht\D264d25-sht-DIS2_STAND41.1.dgn	USER NAME = *USER*	DESIGNED - ___	REVISED - 10-21-08
		DRAWN - ___	REVISED - ___
	PLOT SCALE = *SCALE*	CHECKED - ___	REVISED - ___
	PLOT DATE = 10/28/2010	DATE - _____	REVISED - ___

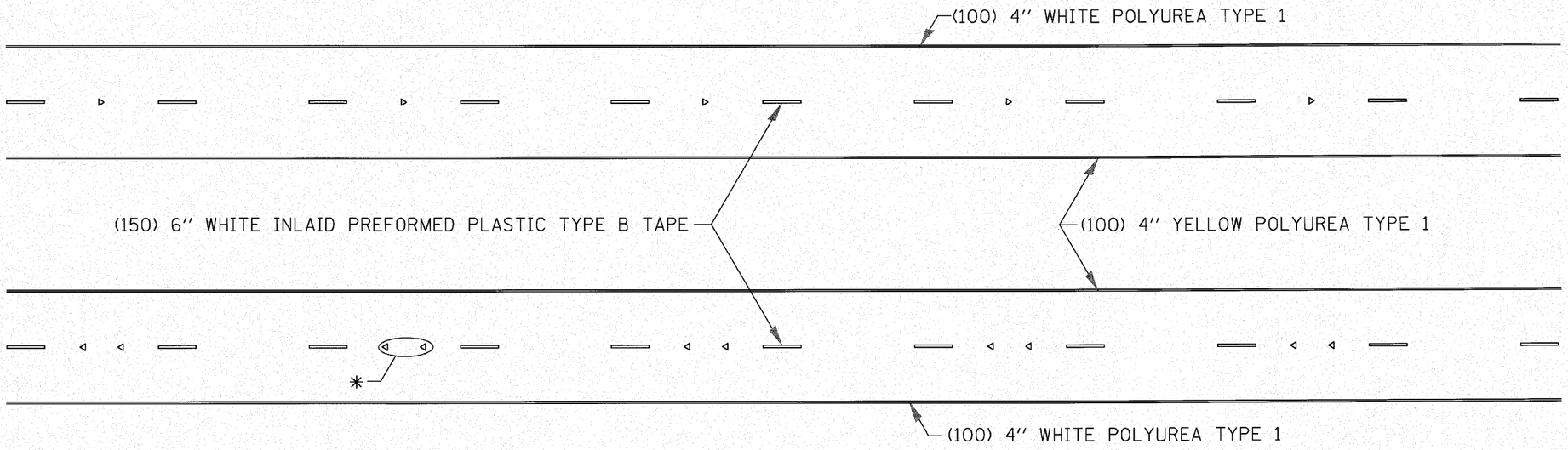
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: _____ | SHEET NO. 7 OF 9 SHEETS | STA. _____ TO STA. _____

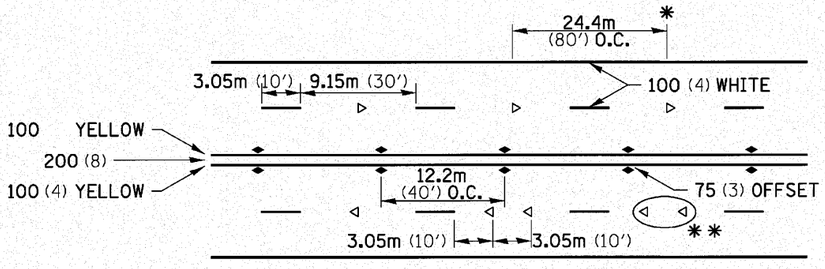
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	67
		CONTRACT NO. 64D25		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT ≥ 25,000.

MULTI–LANE / DIVIDED



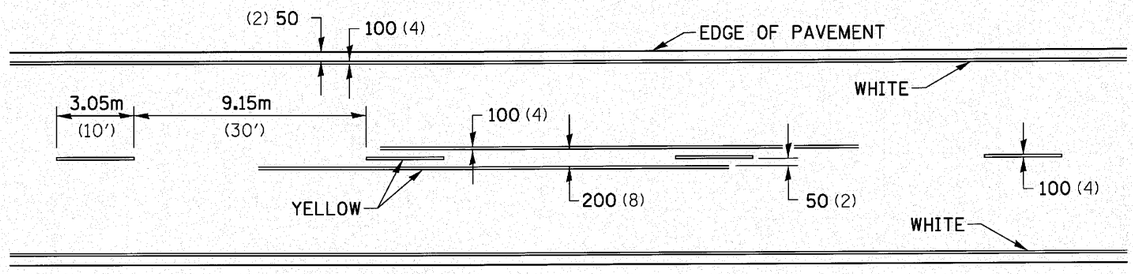
SYMBOLS

* REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15Km/H (10MPH) LOWER THAN POSTED SPEEDS.

** USE DOUBLE MARKERS WHEN ADT ≥ 25,000

MULTI–LANE / UNDIVIDED

TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



TYPICAL PAVEMENT MARKINGS SHEET 3 OF 3 41.1

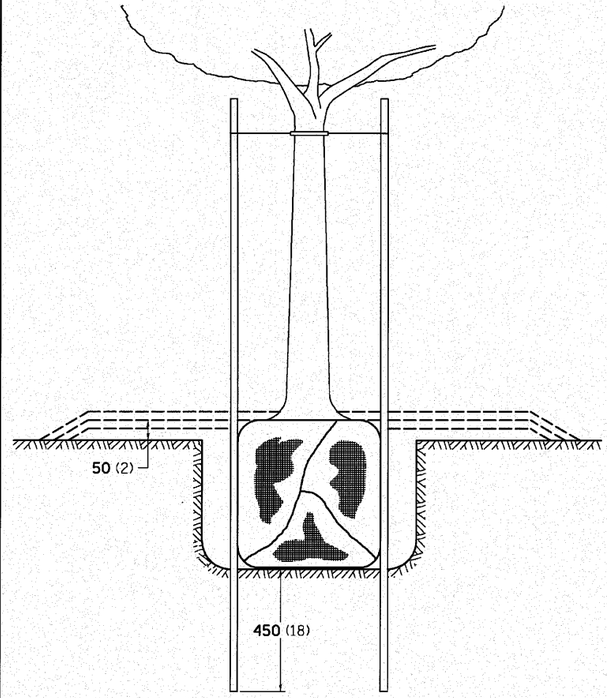
FILE NAME = G:\ENG\06-6790-14A D2 Bridges Phase 2\IL82\CAD\Civil\Sht\D264d25-sht-DIS2_STAND41.1.dgn	USER NAME = *USER*	DESIGNED - ___	REVISED - 10-21-08	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = *SCALE*	DRAWN - ___	REVISED - ___			638	129BR-4	HENRY	93	68
	PLOT DATE = 10/28/2010	CHECKED - ___	REVISED - ___					CONTRACT NO. 64D25		
		DATE - _____	REVISED - ___		SCALE: _____ SHEET NO. 8 OF 9 SHEETS STA. _____ TO STA. _____		FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT	

DETAILS OF PLANTING AND BRACING TREES

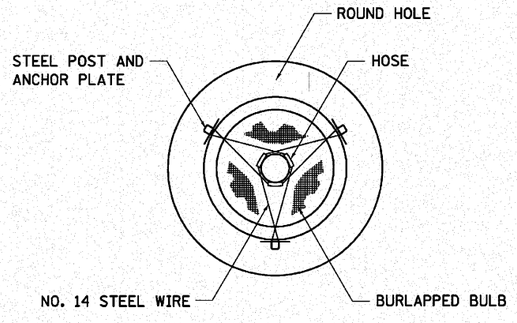
92.1

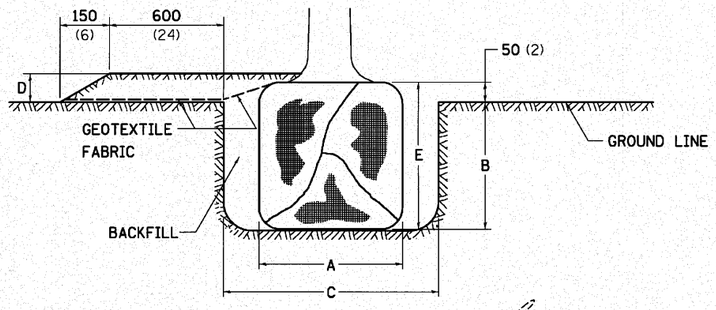
SMALL TREE SIZE	A DIAMETER OF BALL OR ROOT SYS.	B DEPTH OF HOLE EXCAVATION	C WIDTH OF HOLE EXCAVATION	D THICKNESS OF MULCH COVER	E DEPTH OF BALL OR ROOT SYS.	F VOLUME OF MULCH COVER m^3 (CU. YDS.)
1.5-1.8m (5'-6')	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.5-1.8m (5'-6') BB	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.8-2.0m (6'-7') BB	450 (18)	300 (12)	750 (30)	100 (4)	350 (14)	0.41 (0.54)
2.0-2.4m (7'-8') BB	500 (20)	275 (11)	750 (30)	100 (4)	325 (13)	0.41 (0.54)
2.4-3.0m (8'-10') BB	600 (24)	350 (14)	900 (36)	100 (4)	400 (16)	0.47 (0.61)
3.0-3.6m (10'-12') BB	650 (26)	375 (15)	900 (36)	100 (4)	425 (17)	0.47 (0.61)

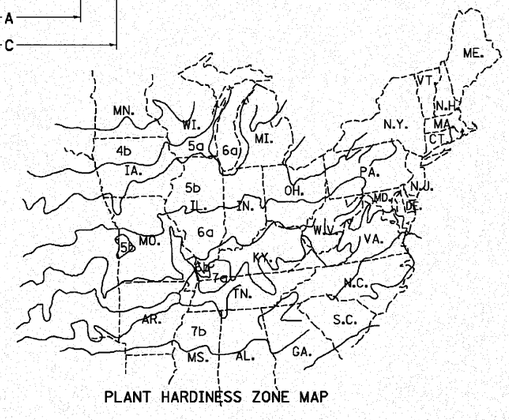
LARGE TREE SIZE	A DIAMETER OF BALL OR ROOT SYS.	B DEPTH OF HOLE EXCAVATION	C WIDTH OF HOLE EXCAVATION	D THICKNESS OF MULCH COVER	E DEPTH OF BALL OR ROOT SYS.	F VOLUME OF MULCH COVER m^3 (CU. YDS.)
0-50 (0-2)	500 (20)	275 (11)	900 (36)	100 (4)	325 (13)	0.47 (0.61)
50-65 (2-2½)BB	600 (24)	350 (14)	1200 (48)	100 (4)	400 (16)	0.60 (0.78)
65-75 (2½-3)BB	700 (28)	425 (17)	1200 (48)	100 (4)	475 (19)	0.60 (0.78)
75-90 (3-3½) BB	800 (32)	425 (17)	1500 (60)	100 (4)	475 (19)	0.73 (0.96)
90-100 (3½-4) BB	900 (36)	500 (20)	1500 (60)	100 (4)	550 (22)	0.73 (0.96)
100-115 (4-4½) BB	1000 (40)	550 (22)	1800 (72)	100 (4)	600 (24)	0.89 (1.16)
115-125 (4½-5) BB	1100 (44)	600 (24)	1800 (72)	100 (4)	650 (26)	0.89 (1.16)
125-140 (5-5½) BB	1200 (48)	675 (27)	2100 (84)	100 (4)	725 (29)	1.06 (1.38)



TREES SMALLER THAN 115 (4½) IN DIAMETER

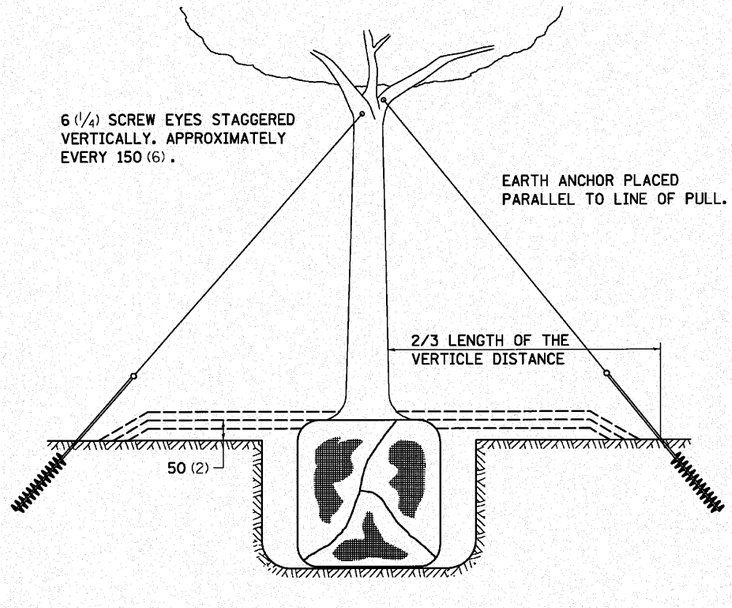




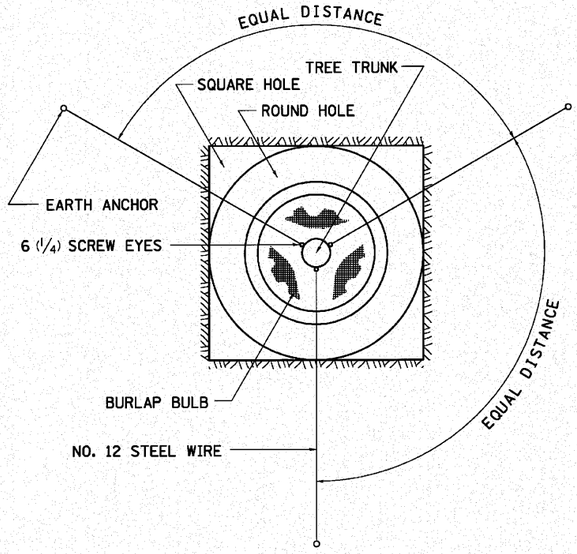


PLANT HARDINESS ZONE MAP

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814



TREES OVER 115 (4½) IN DIAMETER



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

FILE NAME = G:\ENG\06-6798-14A D2 Bridges Phase 2\IL82\CAD\Civil\Sht\D264d25-sht-DIS2_STAND92.1.dgn	USER NAME = #USER#	DESIGNED - ___	REVISED - 10-15-04
		DRAWN - ___	REVISED - ___
	PLOT SCALE = #SCALE#	CHECKED - ___	REVISED - ___
	PLOT DATE = 10/28/2010	DATE - _____	REVISED - ___

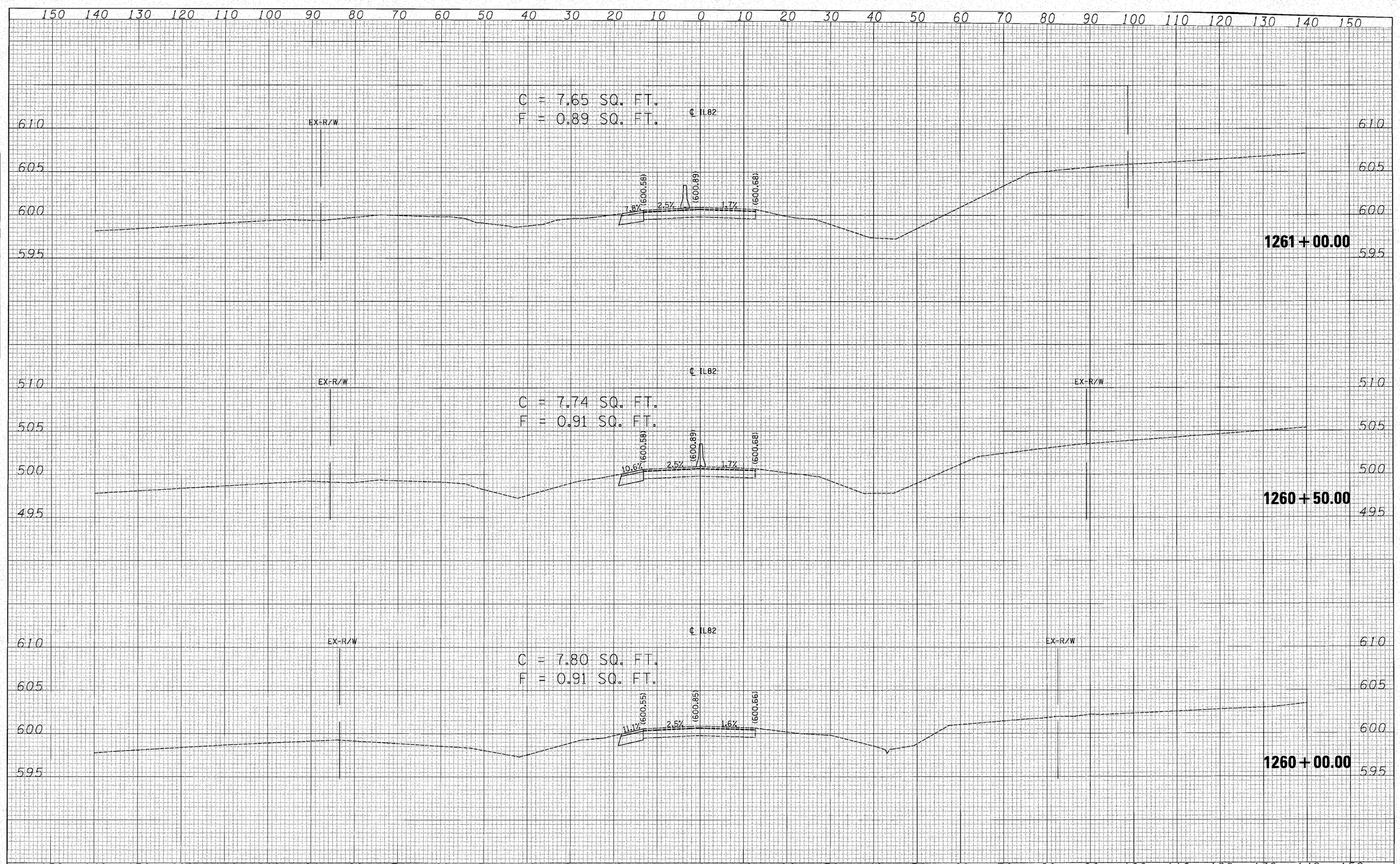
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: _____ | SHEET NO. 9 OF 9 SHEETS | STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	69
		CONTRACT NO. 64D25		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

DETAILS OF PLANTING AND BRACING TREES 92.1



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

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

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois Westmont, Illinois

USER NAME = #USER#	DESIGNED - ST	REVISED -	
	DRAWN - ST	REVISED -	
PLOT SCALE = #SCALE#	CHECKED - FML	REVISED -	
PLOT DATE = #DATE#	DATE - 08/2010	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC CROSS SECTIONS
IL 82 OVER GREEN RIVER

SCALE: 1"=10'H, 5'V | SHEET NO. 1 OF 7 SHEETS | STA. 1260+00.00 TO STA. 1261+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	70
		CONTRACT NO. 64D25		
	ILLINOIS	FED. AID PROJECT		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

610 605 600 595

W

C = 7.65 SQ. FT.
F = 0.89 SQ. FT.

℄ IL82

(600.54) (600.82) (600.62)

7.6% 2.3% 1.5%

1262 + 50.00

610 605 600 595

EX-R/W

C = 7.71 SQ. FT.
F = 0.89 SQ. FT.

℄ IL82

(600.58) (600.84) (600.60)

9.2% 2.1% 1.9%

1262 + 00.00

610 605 600 595

EX-R/W

℄ IL82

C = 7.65 SQ. FT.
F = 0.87 SQ. FT.

(600.59) (600.87) (600.64)

7.6% 2.3% 1.8%

1261 + 50.00

610 605 600 595

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FINAL SURVEY NOTE BOOK NO.

ORIGINAL SURVEY NOTE BOOK NO.

	BY	DATE
SURVEYED		
PLOTTED		
TOPO DATE		
AREAS		
AREAS CHECKED		

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois Westmont, Illinois

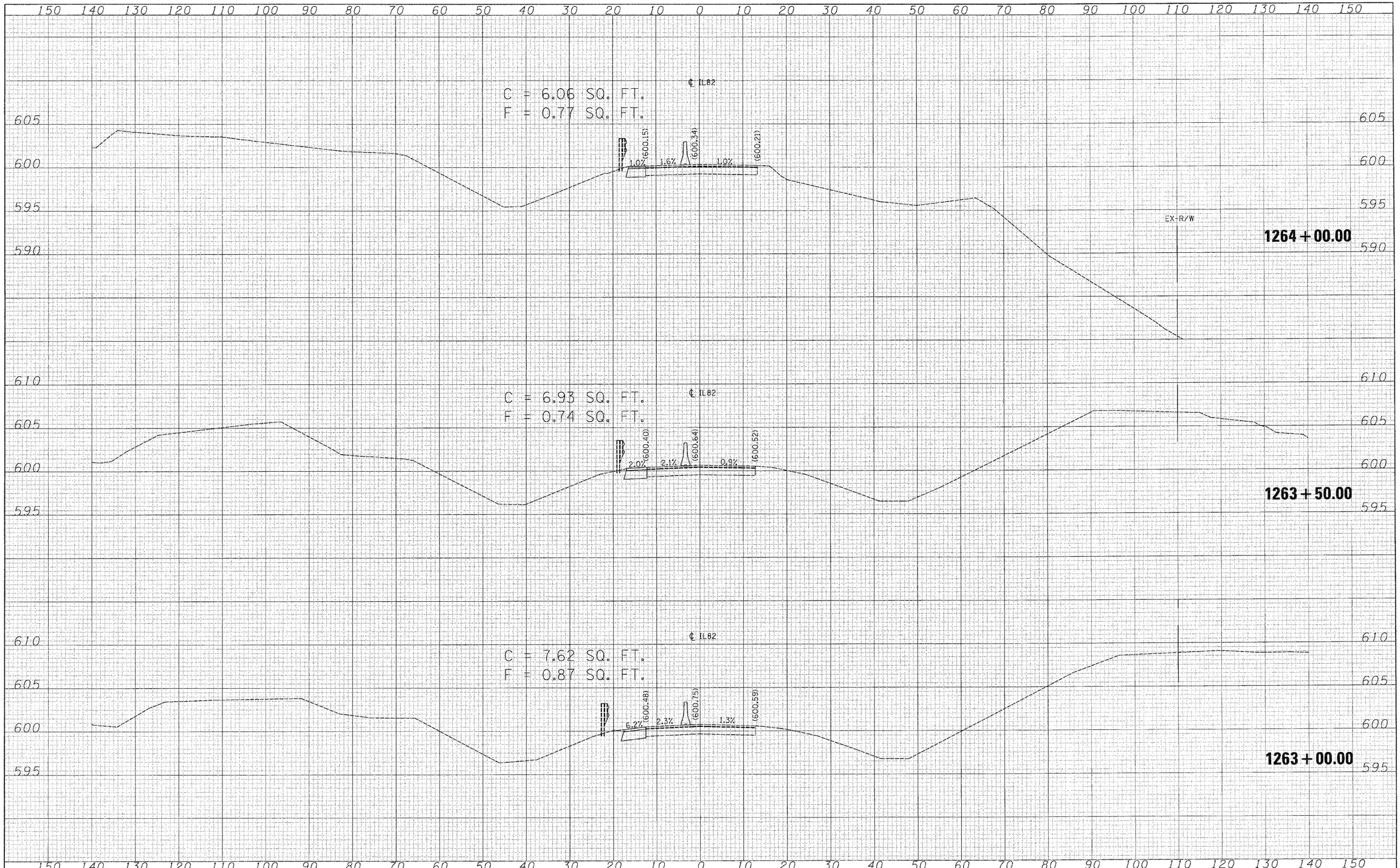
USER NAME = #USER#	DESIGNED - ST	REVISED -	
	DRAWN - ST	REVISED -	
PLOT SCALE = #SCALE#	CHECKED - FML	REVISED -	
PLOT DATE = #DATE#	DATE - 08/2010	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC CROSS SECTIONS
IL 82 OVER GREEN RIVER

SCALE: 1"=10'H, 5'V | SHEET NO. 2 OF 7 SHEETS | STA. 1261+50.00 TO STA. 1262+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	71
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			



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

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois Westmont, Illinois

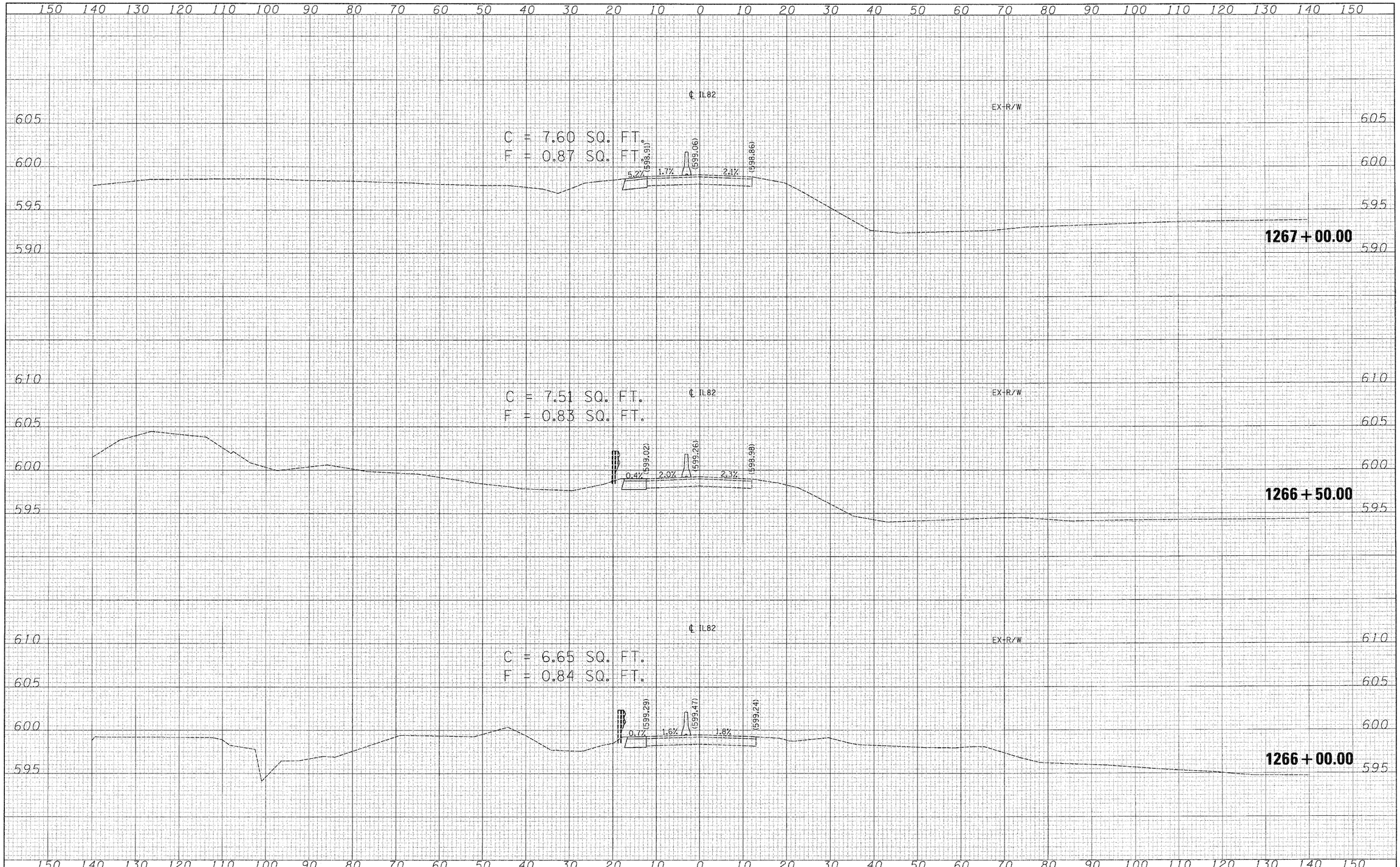
USER NAME = $USER$	DESIGNED - ST	REVISED -
	DRAWN - ST	REVISED -
PLOT SCALE = $SCALE$	CHECKED - FML	REVISED -
PLOT DATE = $DATE$	DATE - 08/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC CROSS SECTIONS
IL 82 OVER GREEN RIVER

SCALE: 1"=10'H, 5'V | SHEET NO. 3 OF 7 SHEETS | STA. 1263+00.00 TO STA. 1264+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	72
		CONTRACT NO. 64D25		
	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY	NOTE BOOK	NO.	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED	BY	DATE
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LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois Westmont, Illinois

USER NAME = $USER$	DESIGNED - ST	REVISED -
	DRAWN - ST	REVISED -
PLOT SCALE = $SCALE$	CHECKED - FML	REVISED -
PLOT DATE = $DATE$	DATE - 08/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC CROSS SECTIONS
IL 82 OVER GREEN RIVER

SCALE: 1"=10'H, 5'V | SHEET NO. 4 OF 7 SHEETS | STA. 1266+00.00 TO STA. 1267+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	73
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

C = 7.80 SQ. FT.
F = 0.91 SQ. FT.

℄ IL82

EX-R/W

600
595
590
585

(598.31) 11.6% 1.6% (598.50) 1.6% (598.31)

1268 + 50.00

C = 7.69 SQ. FT.
F = 0.89 SQ. FT.

℄ IL82

EX-R/W

470
465
460
455

(598.57) 8.6% 1.7% (598.77) 1.6% (598.59)

1268 + 00.00

C = 7.71 SQ. FT.
F = 0.90 SQ. FT.

℄ IL82

EX-R/W

605
600
595
590

(598.70) 8.8% 1.7% (598.90) 1.8% (598.68)

1267 + 50.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

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

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois Westmont, Illinois

USER NAME = $USER$	DESIGNED - ST	REVISED -	
	DRAWN - ST	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - FML	REVISED -	
PLOT DATE = $DATE$	DATE - 08/2010	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC CROSS SECTIONS
IL 82 OVER GREEN RIVER

SCALE: 1"=10'H, 5'V | SHEET NO. 5 OF 7 SHEETS | STA. 1267+50.00 TO STA. 1268+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	74
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

FINAL SURVEY	SURVEYED	BY	DATE
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NOTE BOOK	TEMPLATE		
NO.	AREAS		
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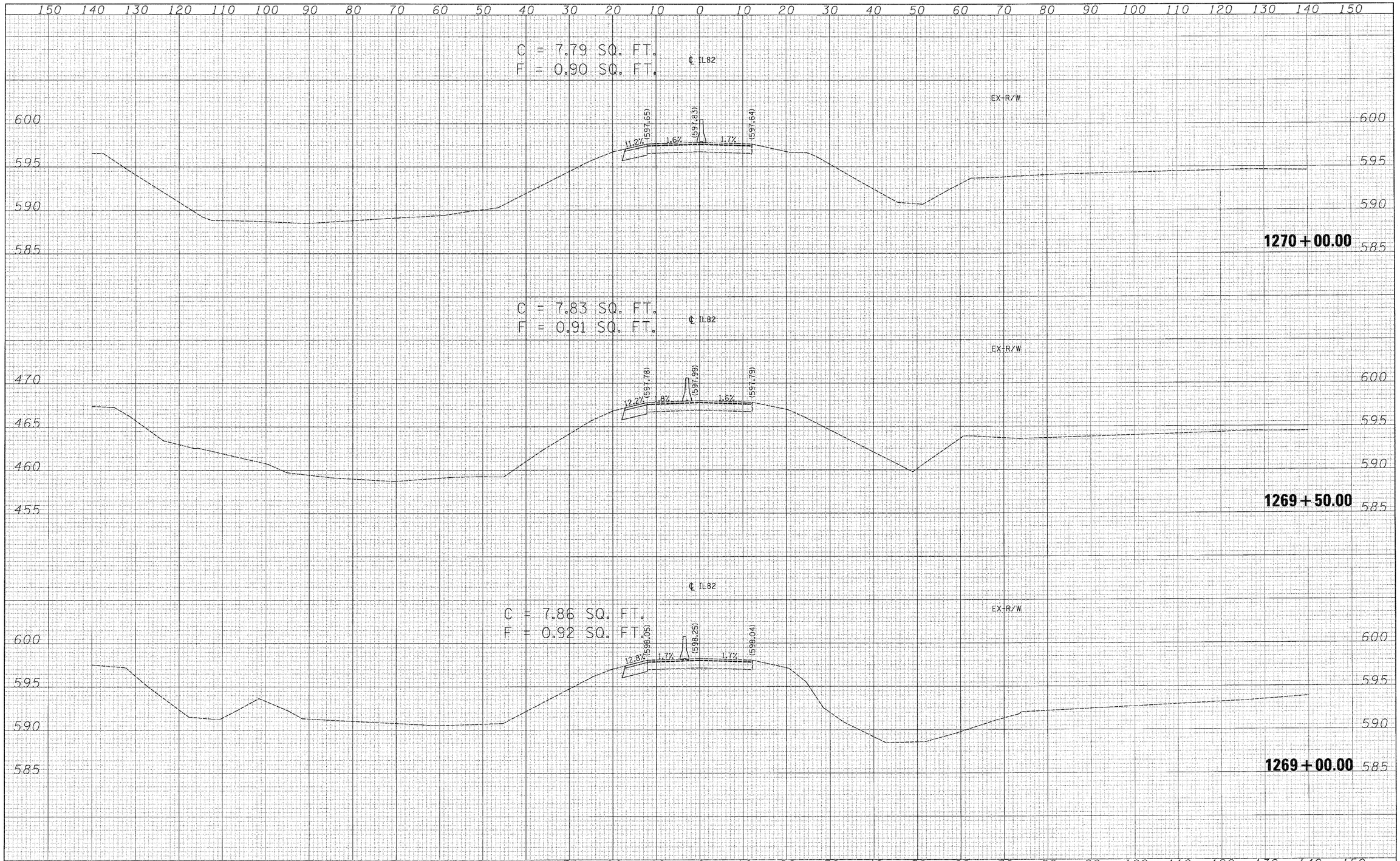

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois Westmont, Illinois

USER NAME = $USER$	DESIGNED - ST	REVISED -
	DRAWN - ST	REVISED -
PLOT SCALE = $SCALE$	CHECKED - FML	REVISED -
PLOT DATE = $DATE$	DATE - 08/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC CROSS SECTIONS
IL 82 OVER GREEN RIVER

SCALE: 1"=10'H, 5'V | SHEET NO. 6 OF 7 SHEETS | STA. 1269+00.00 TO STA. 1270+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	75
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		

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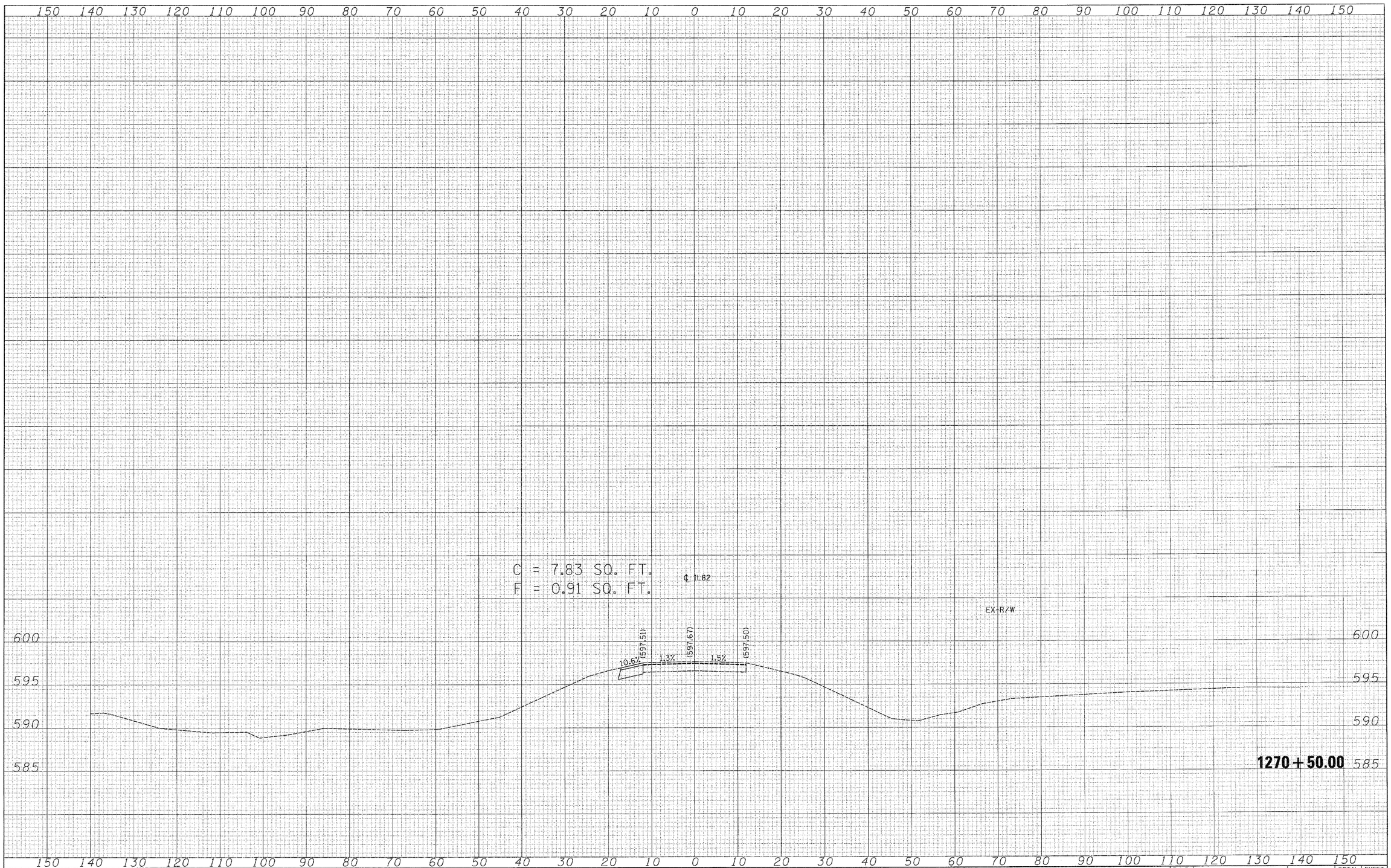
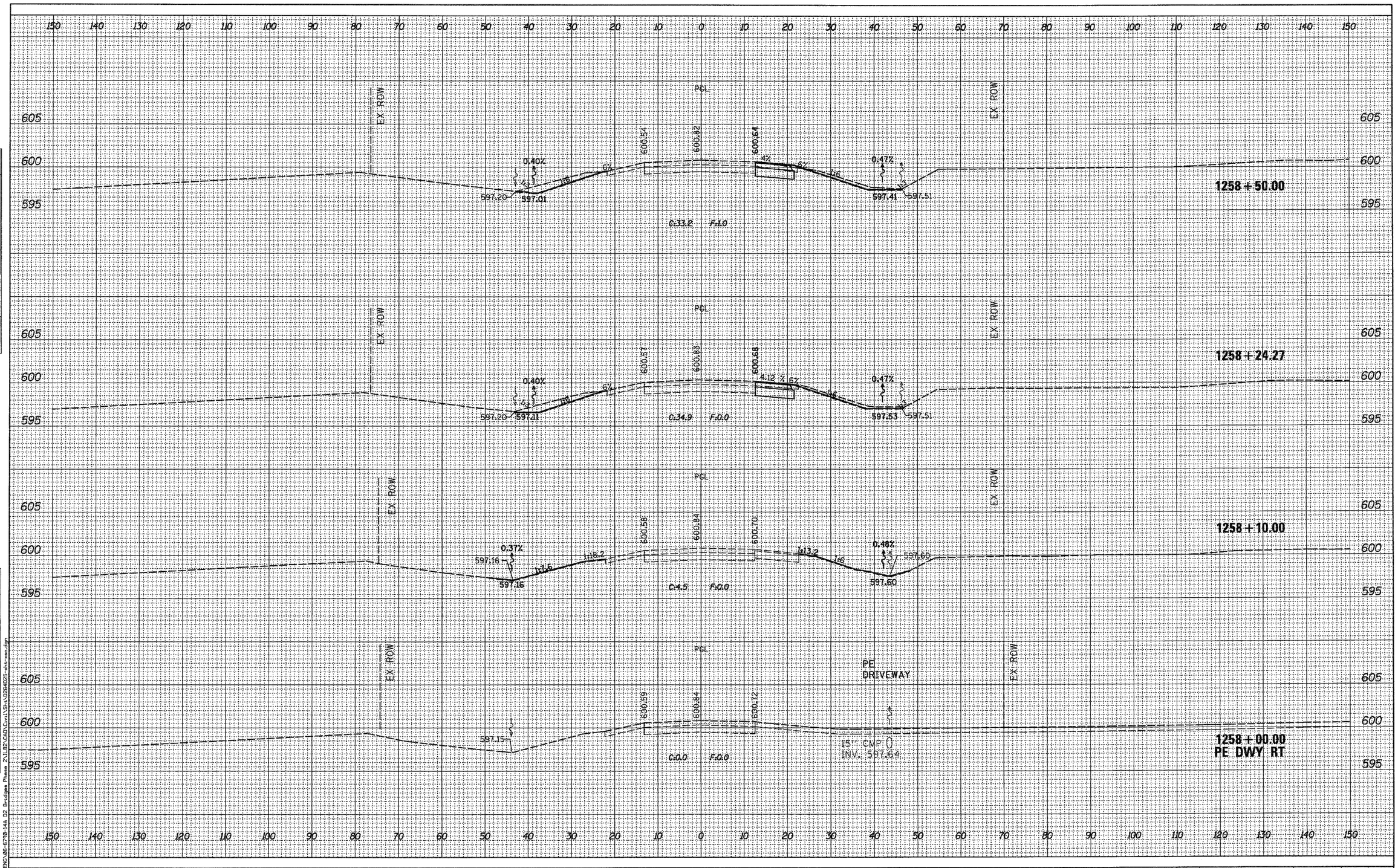


LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois Westmont, Illinois	USER NAME = $USER$	DESIGNED - ST	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC CROSS SECTIONS IL 82 OVER GREEN RIVER
		DRAWN - ST	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - FML	REVISED -		
	PLOT DATE = $DATE$	DATE - 08/2010	REVISED -		SCALE: 1"=10'H, 5'V | SHEET NO. 7 OF 7 SHEETS | STA. 1270+50.00 TO STA. 1270+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	76
		CONTRACT NO. 64D25		
	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY	SURVEYED	BY	DATE
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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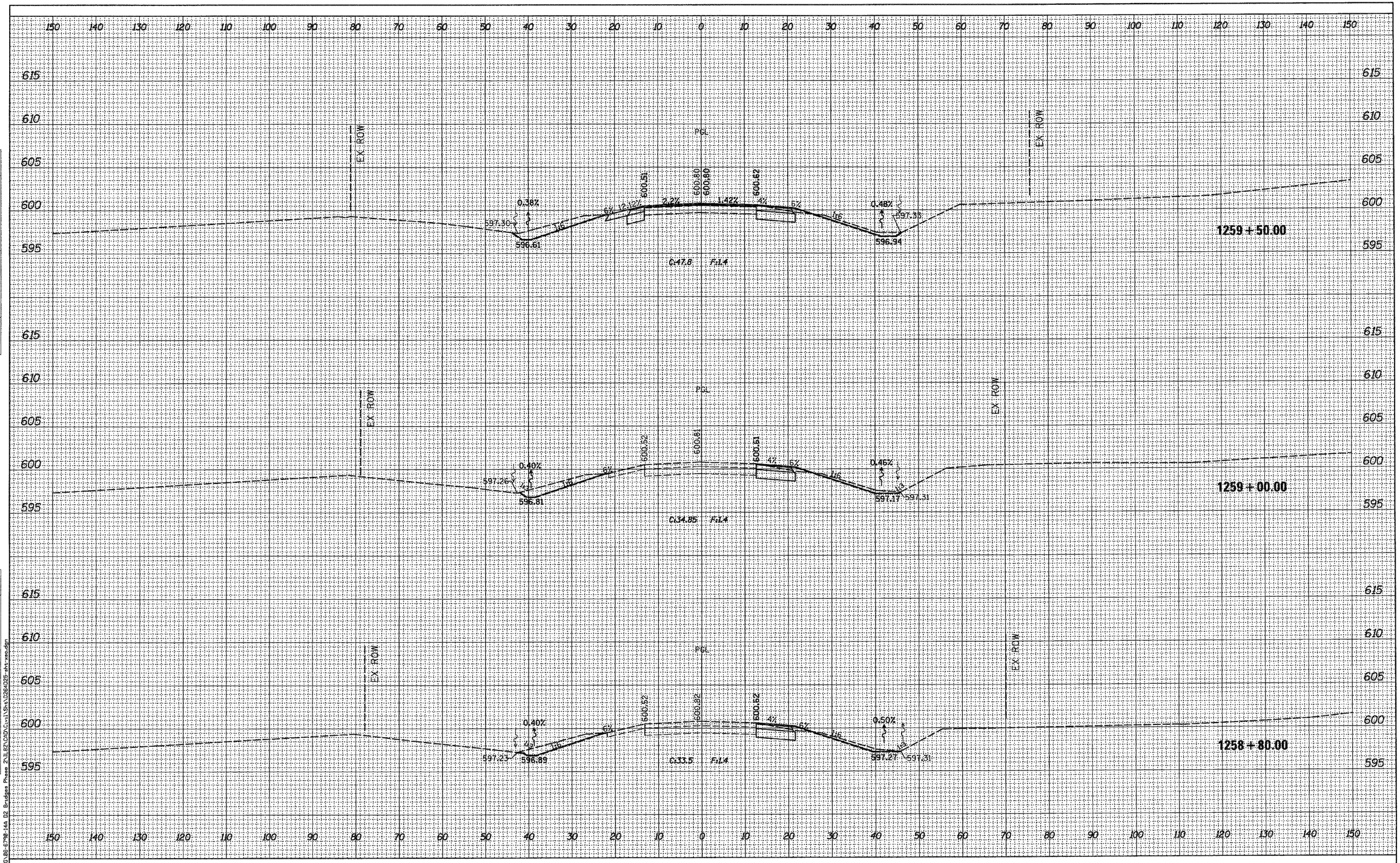
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 82 OVER GREEN RIVER

SCALE: 1"=10'H, 5'V | SHEET NO. 1 OF 17 SHEETS | STA. 1258+00.00 TO STA. 1258+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	77
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			

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



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NOTE BOOK	TEMPLATE	
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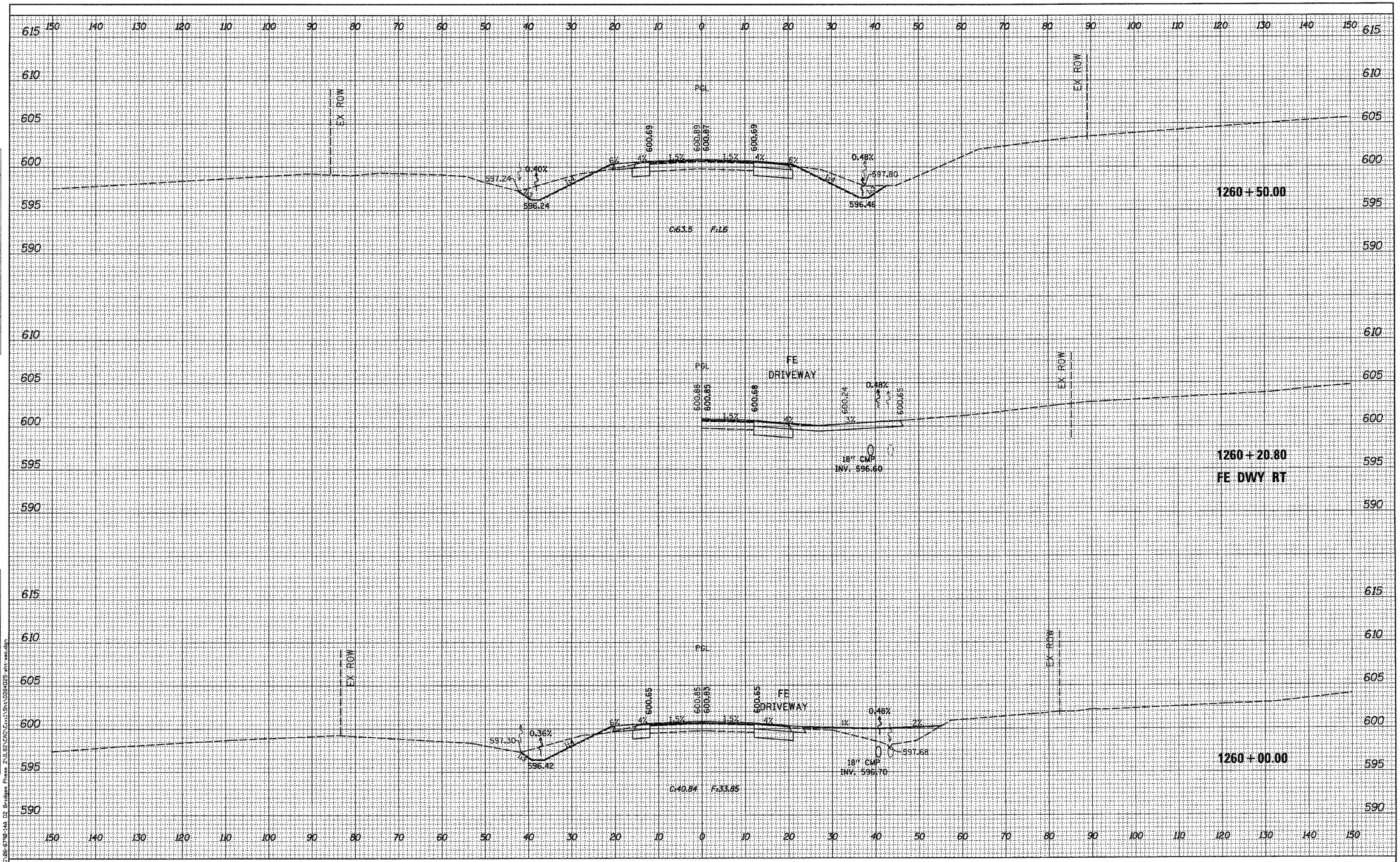
PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 82 OVER GREEN RIVER

SCALE: 1"=10'H, 5'V | SHEET NO. 2 OF 17 SHEETS | STA.1258+80.00 | TO STA.1259+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	78
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		



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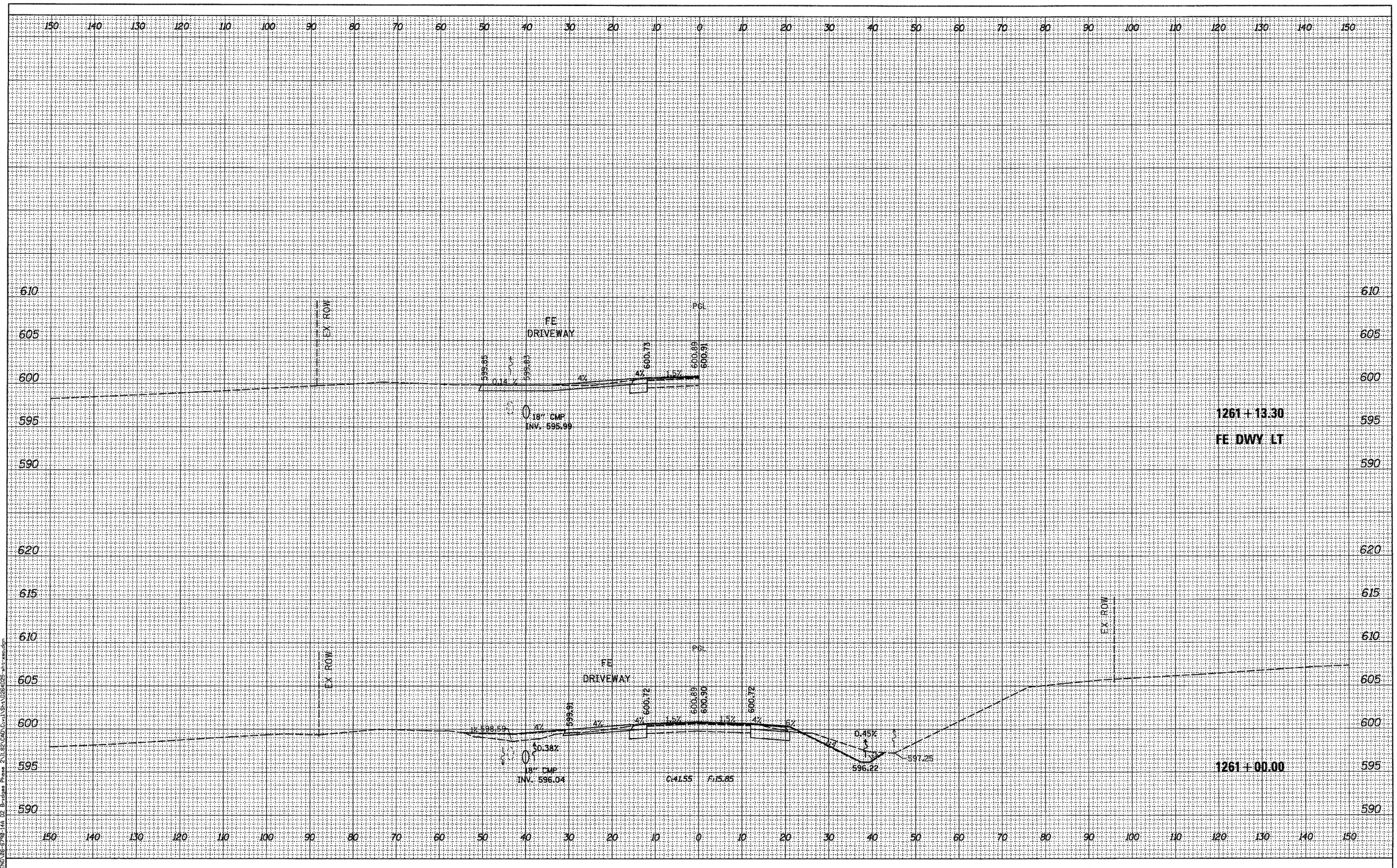
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 82 OVER GREEN RIVER

SCALE: 1"=10'H, 5'V | SHEET NO. 3 OF 17 SHEETS | STA. 1260+00.00 TO STA. 1260+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	79
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			



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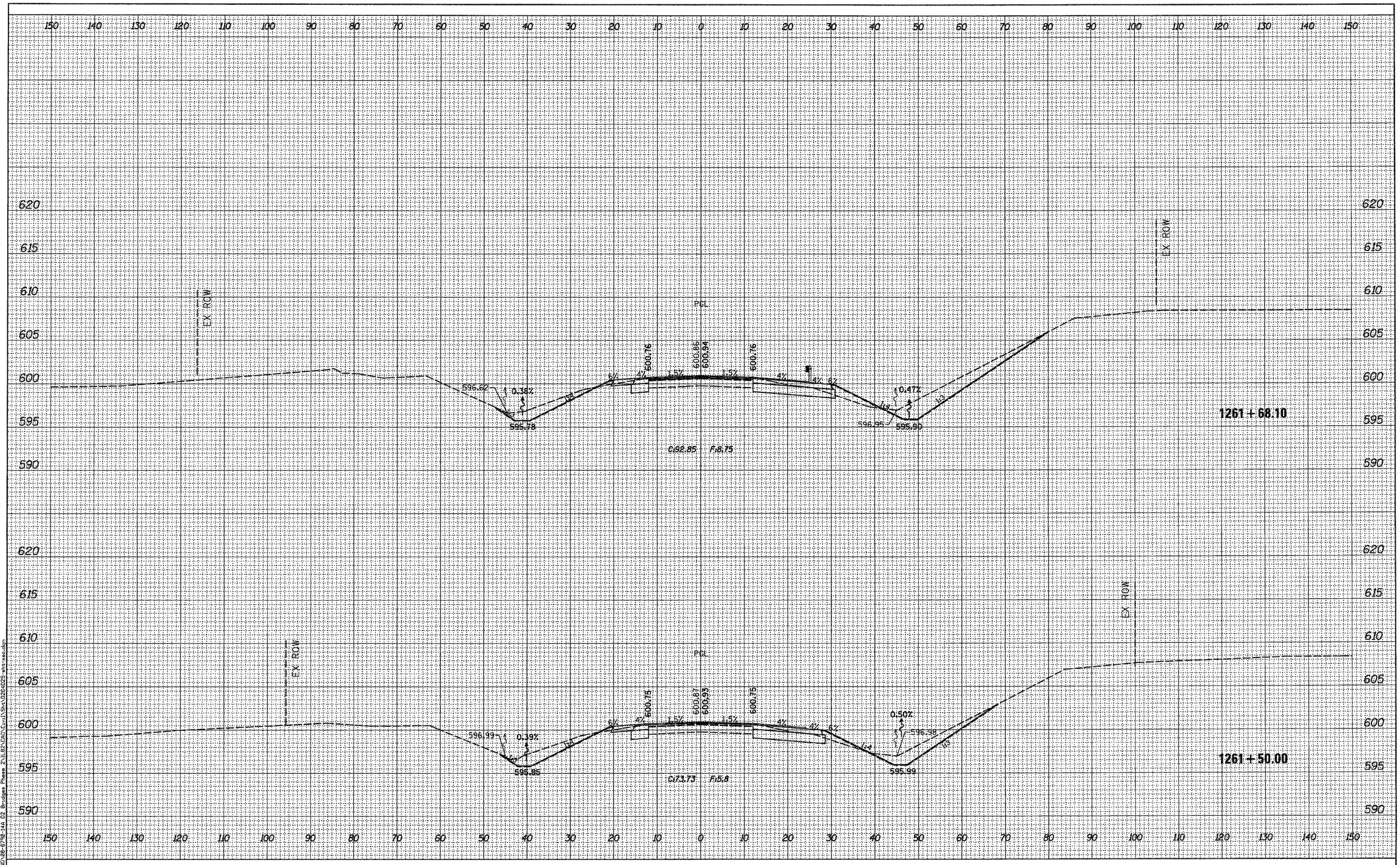
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 82 OVER GREEN RIVER

SCALE: 1"=10'H, 5'V | SHEET NO. 4 OF 17 SHEETS | STA. 1261+00.00 | TO STA. 1261+13.30

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	80
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		



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NOTE BOOK	SURVEYED	
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NOTE BOOK	SURVEYED	
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	DRAWN - JNH	REVISED -	
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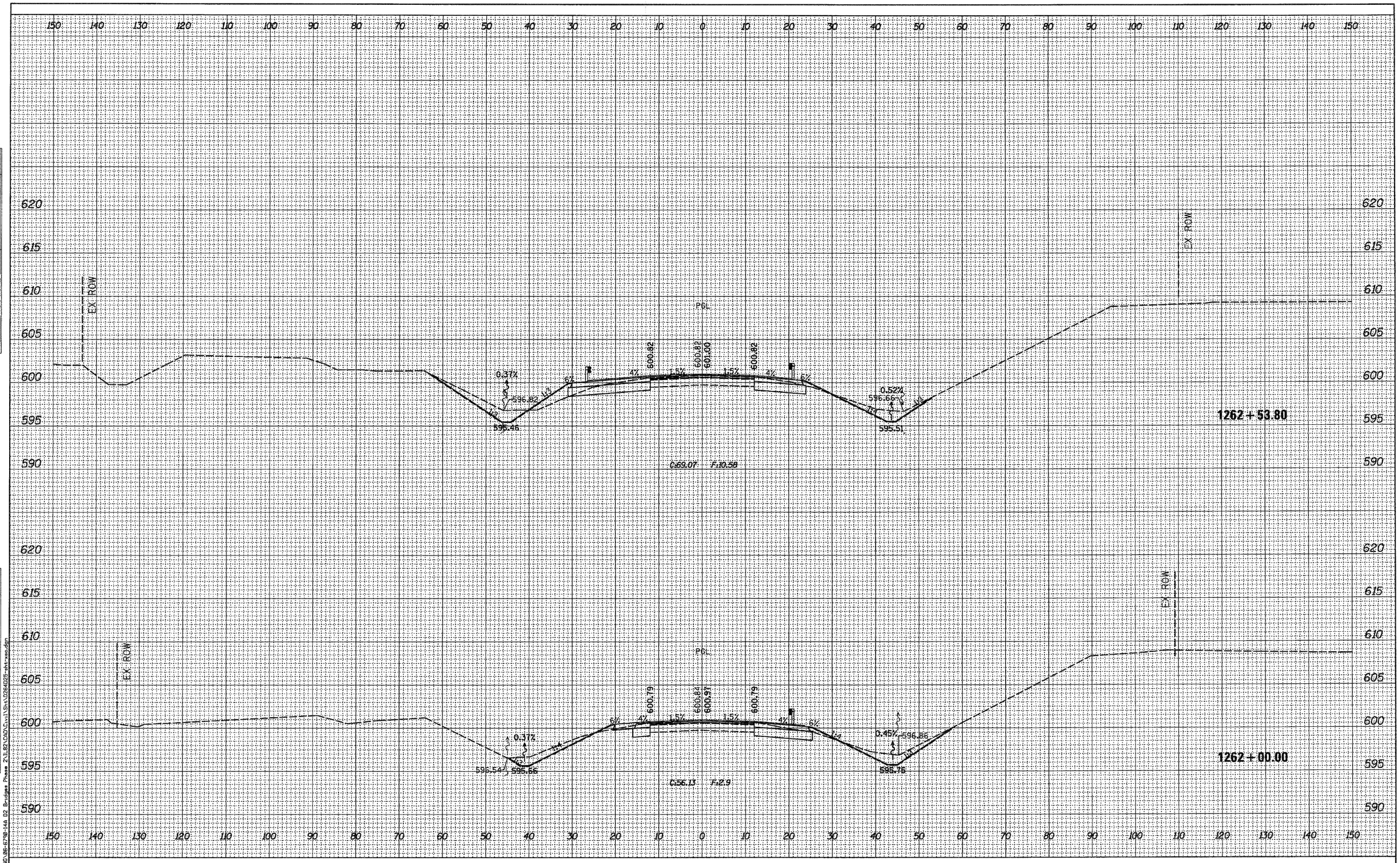
PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 82 OVER GREEN RIVER

SCALE: 1"=10'H, 5'V | SHEET NO. 5 OF 17 SHEETS | STA. 1261+50.00 | TO STA. 1261+68.10

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	81
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		



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NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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	DRAWN - JNH	REVISED -			
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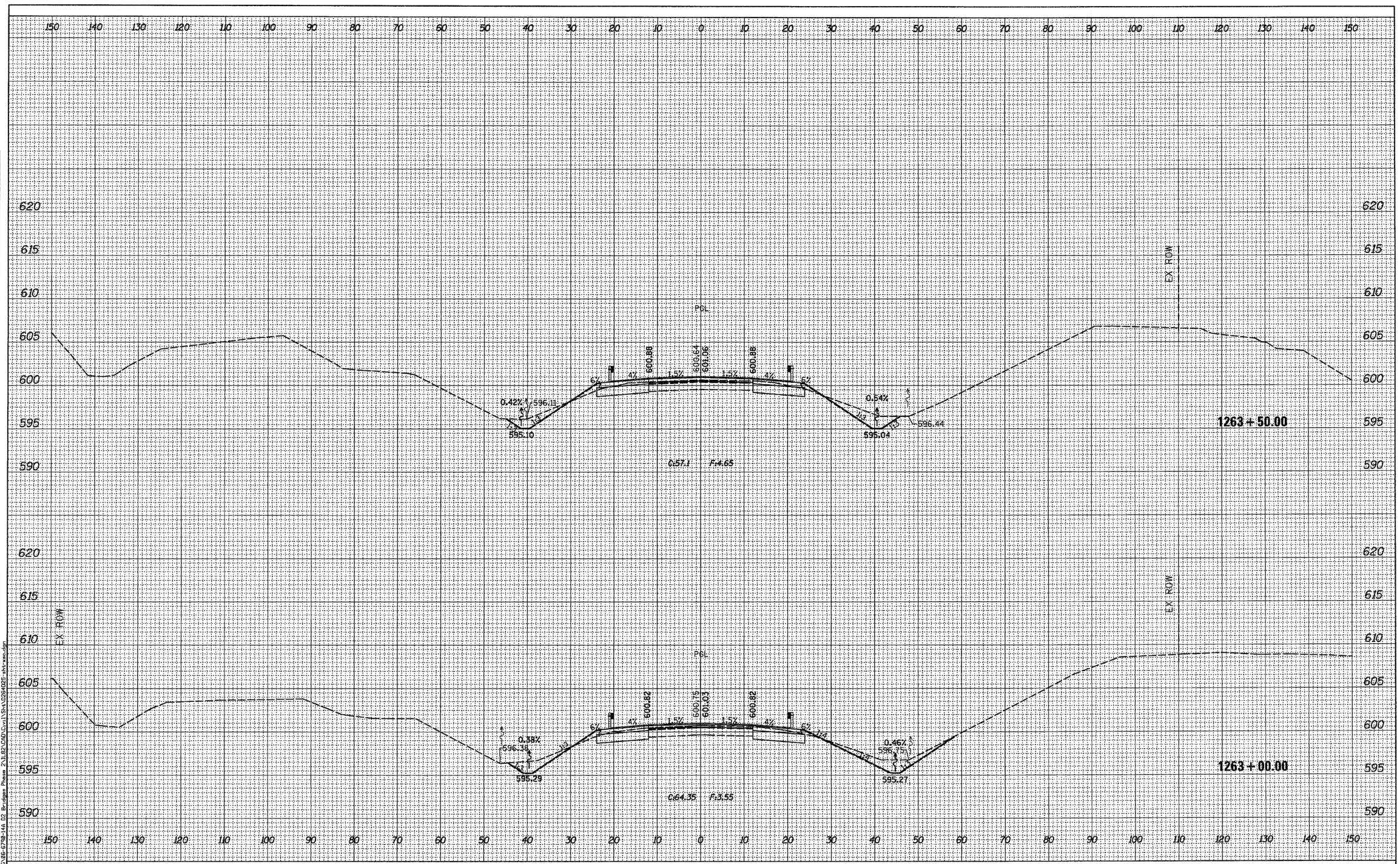
PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 82 OVER GREEN RIVER

SCALE: 1"=10'H, 5'V | SHEET NO. 6 OF 17 SHEETS | STA. 1262+00.00 | TO STA. 1262+53.80

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	82
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		



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

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		DRAWN - JNH	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - KMB	REVISED -		
	PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -		

SCALE: 1"=10'H, 5'V | SHEET NO. 7 OF 17 SHEETS | STA. 1263+00.00 | TO STA. 1263+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	83
		CONTRACT NO. 64D25		
	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	BY	DATE
SURVEYED		
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NOTE BOOK	TEMPLATE	
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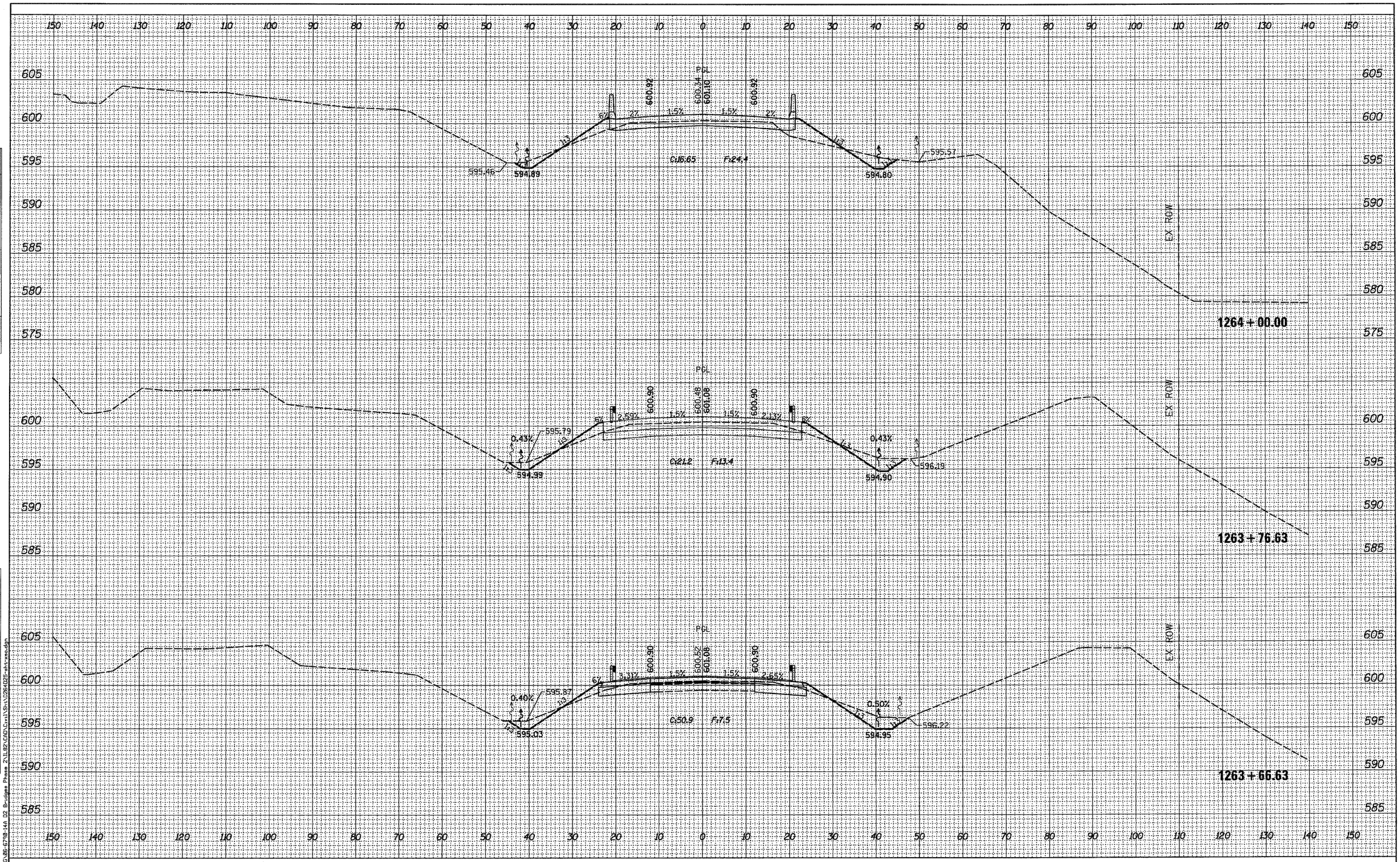

ORIGINAL SURVEY	BY	DATE
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PLOTTED		
NOTE BOOK	TEMPLATE	
NO.	AREAS	
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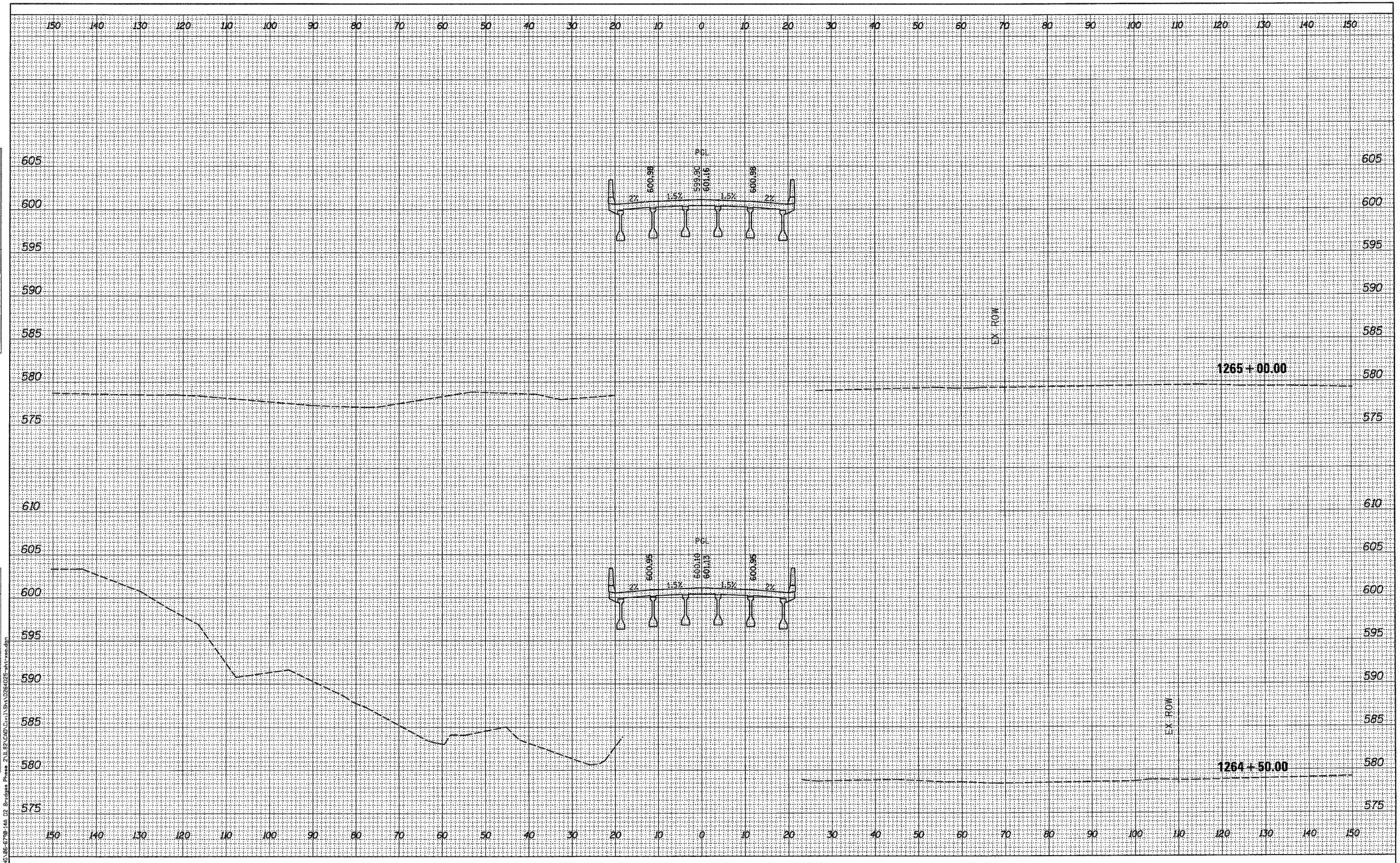
PLOT SCALE = *SCALE*	CHECKED - KMB	REVISED -	
PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 82 OVER GREEN RIVER

SCALE: 1"=10'H, 5'V | SHEET NO. 8 OF 17 SHEETS | STA. 1263+66.63 | TO STA. 1264+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	84
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		



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

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

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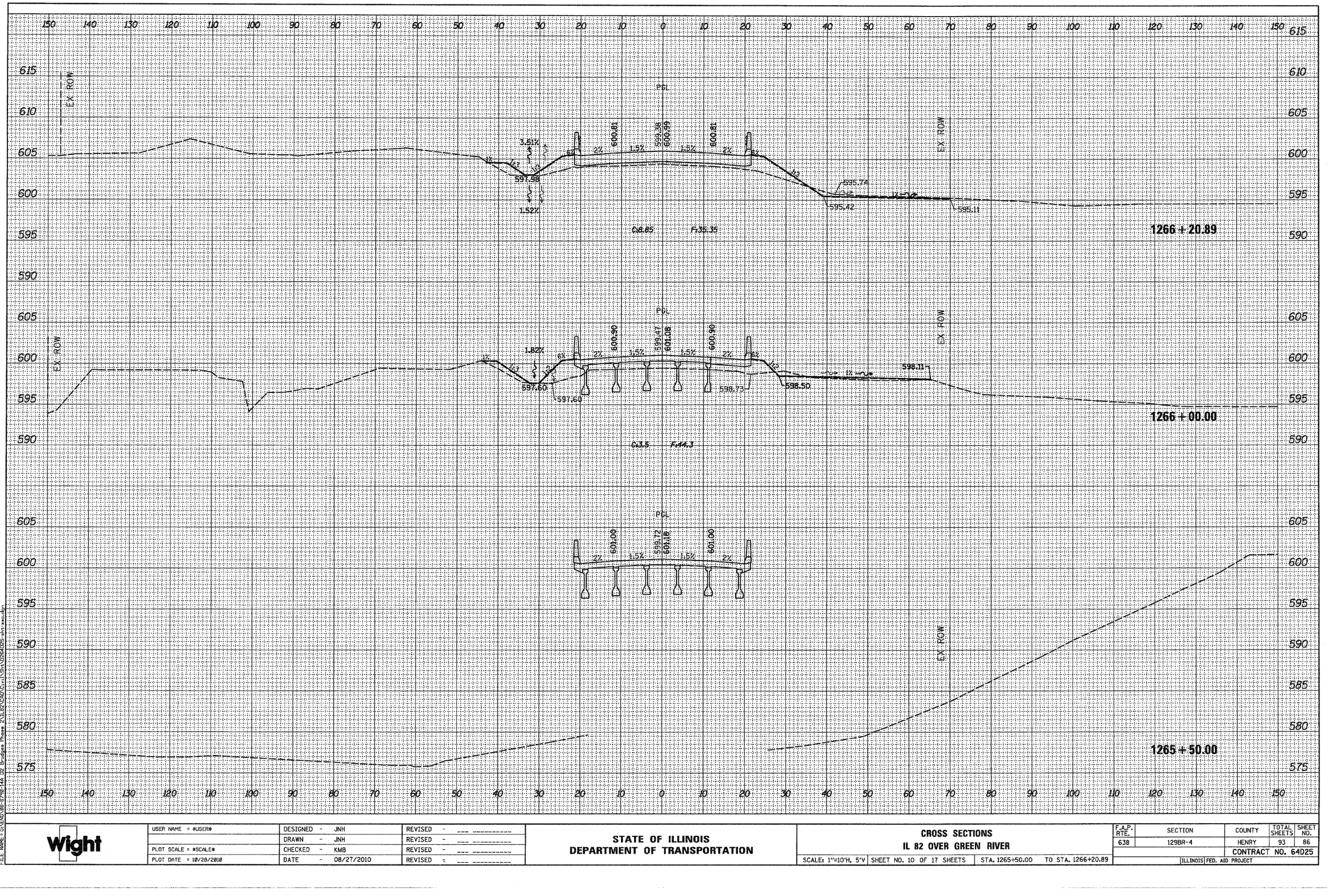
		DRAWN - JNH	REVISED -	
	PLOT SCALE = #SCALE#	CHECKED - KMB	REVISED -	
	PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 82 OVER GREEN RIVER

SCALE: 1"=10'H, 5'V | SHEET NO. 9 OF 17 SHEETS | STA. 1264+50.00 | TO STA. 1265+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	85
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			



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

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

FILE NAME = G:\ENG\86-6798-144 D2 Bridges Phase 2\IL82\CADD\Civil\Sht\D2564025-sht-xsc.dgn

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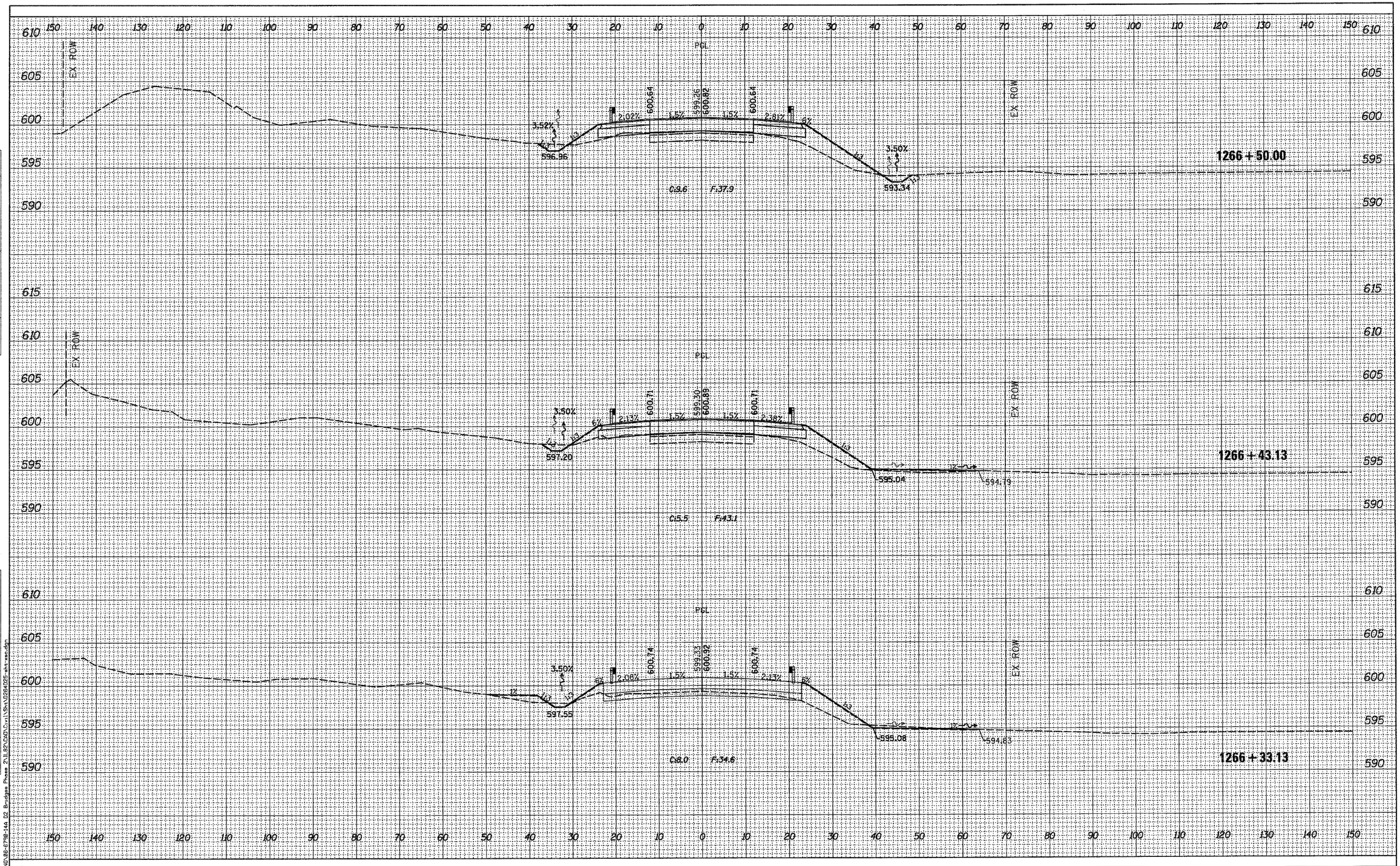
		DRAWN - JNH	REVISED -		
	PLOT SCALE = *SCALE*	CHECKED - KMB	REVISED -		
	PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -		SCALE: 1"=10'H, 5'V | SHEET NO. 10 OF 17 SHEETS | STA. 1265+50.00 TO STA. 1266+20.89

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	86
		CONTRACT NO. 64D25		
		ILLINOIS	FED. AID PROJECT	



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

BY	DATE

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

BY	DATE

FILE NAME = G:\ENG\08-6798-144 D2 Bridges Phase 2\IL82\LDAD\Civil\Sht\D264D25-sht-xsec.dgn

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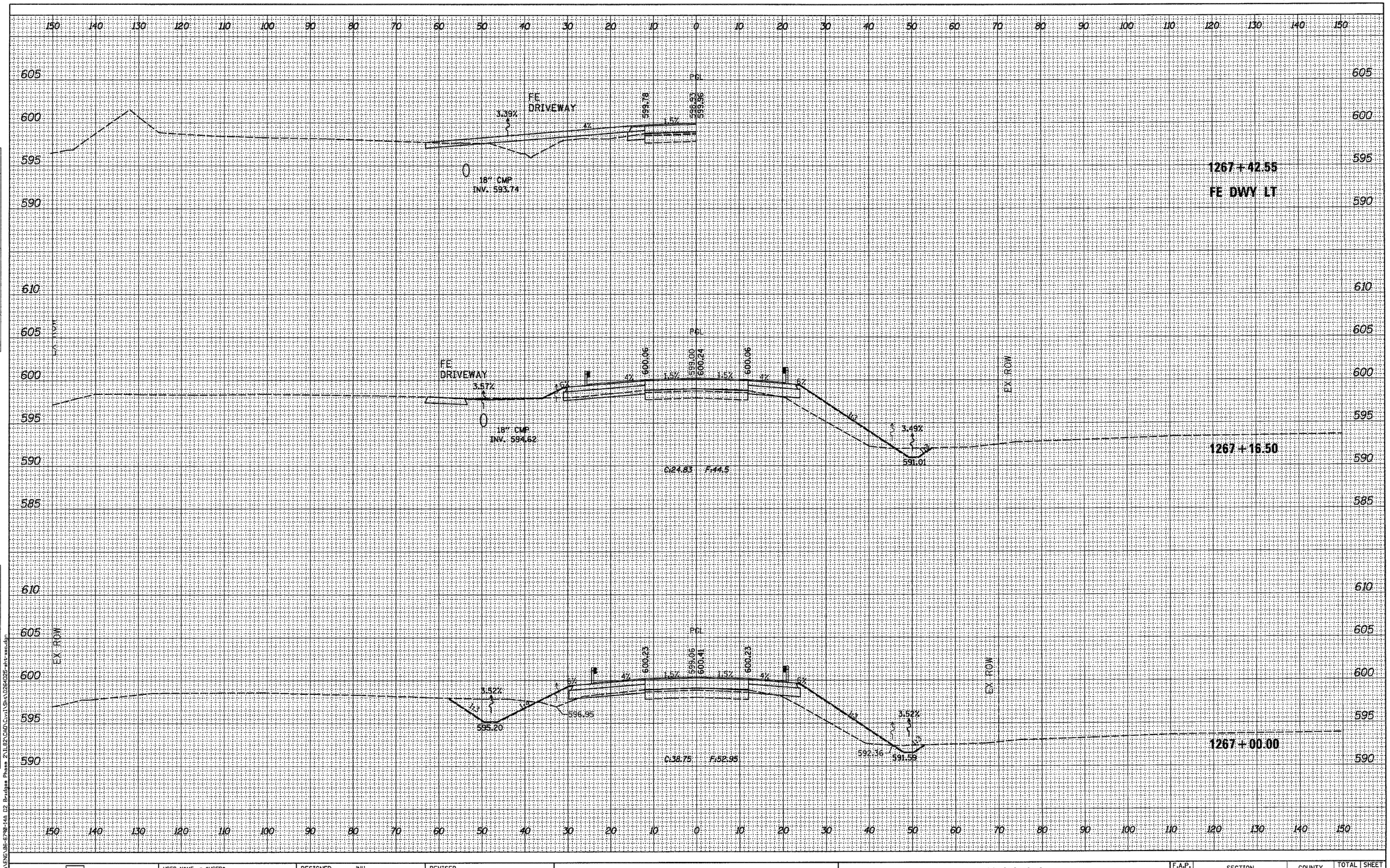
	DRAWN - JNH	REVISED -
PLOT SCALE = @SCALE@	CHECKED - KMB	REVISED -
PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 82 OVER GREEN RIVER

SCALE: 1"=10'H, 5'V | SHEET NO. 11 OF 17 SHEETS | STA. 1266+33.13 TO STA. 1266+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	87
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		



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

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

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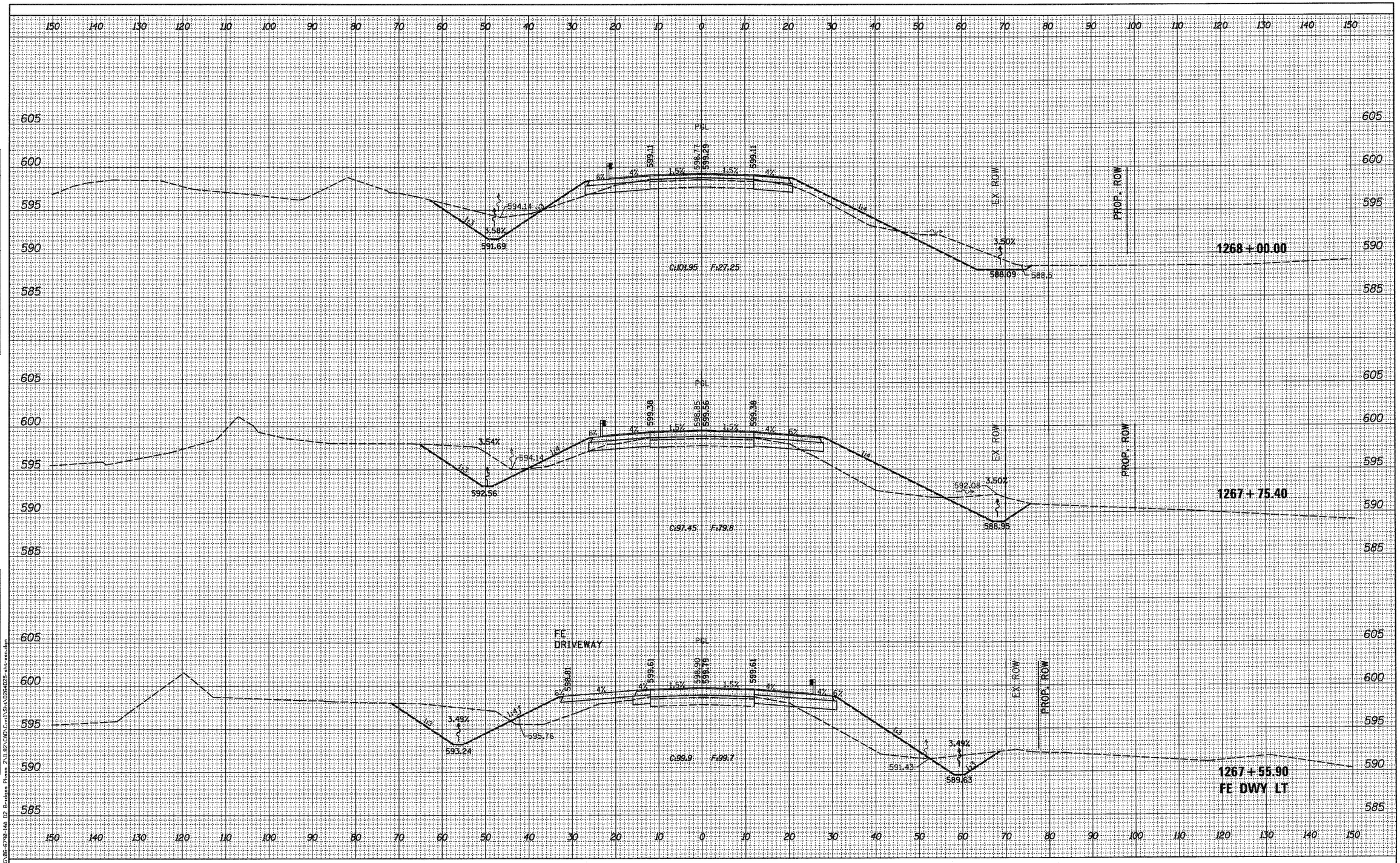
Wight	USER NAME = @USER@	DESIGNED - JNH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS IL 82 OVER GREEN RIVER
		DRAWN - JNH	REVISED -		
	PLOT SCALE = @SCALE@	CHECKED - KMB	REVISED -		
	PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -		

SCALE: 1"=10'H, 5'V | SHEET NO. 12 OF 17 SHEETS | STA. 1267+00.00 | TO STA. 1267+42.55

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	88
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			



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

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

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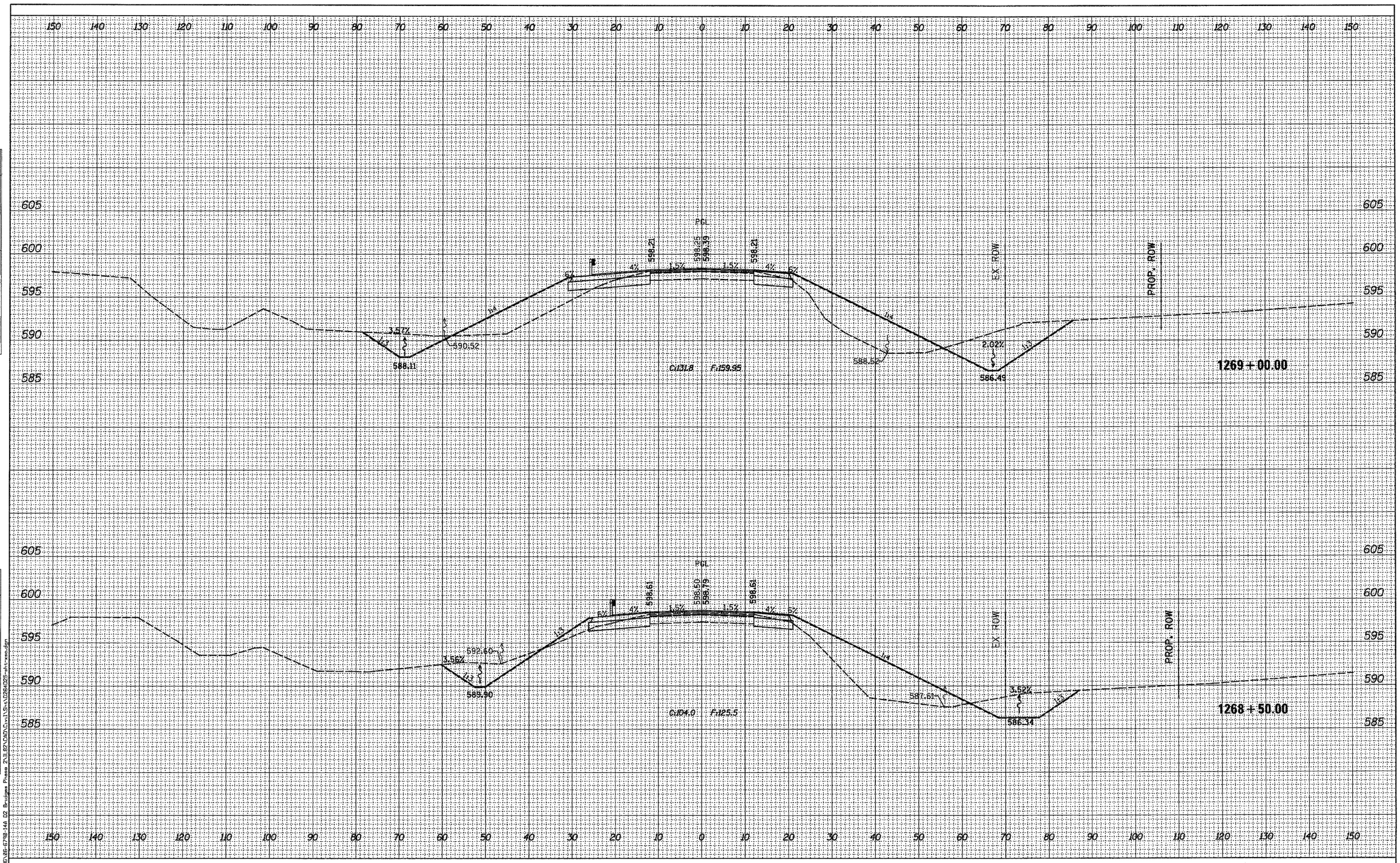
	DRAWN - JNH	REVISED -	
PLOT SCALE = @SCALE@	CHECKED - KMB	REVISED -	
PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 82 OVER GREEN RIVER

SCALE: 1"=10'H, 5'V | SHEET NO. 13 OF 17 SHEETS | STA. 1267+55.90 TO STA. 1268+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	89
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			



Wight	USER NAME = *USER*	DESIGNED - JNH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS IL 82 OVER GREEN RIVER
		DRAWN - JNH	REVISED -		
	PLOT SCALE = *SCALE*	CHECKED - KMB	REVISED -		
	PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -		SCALE: 1"=10'H, 5'V | SHEET NO. 14 OF 17 SHEETS | STA. 1268+50.00 TO STA. 1269+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	90
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		

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

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

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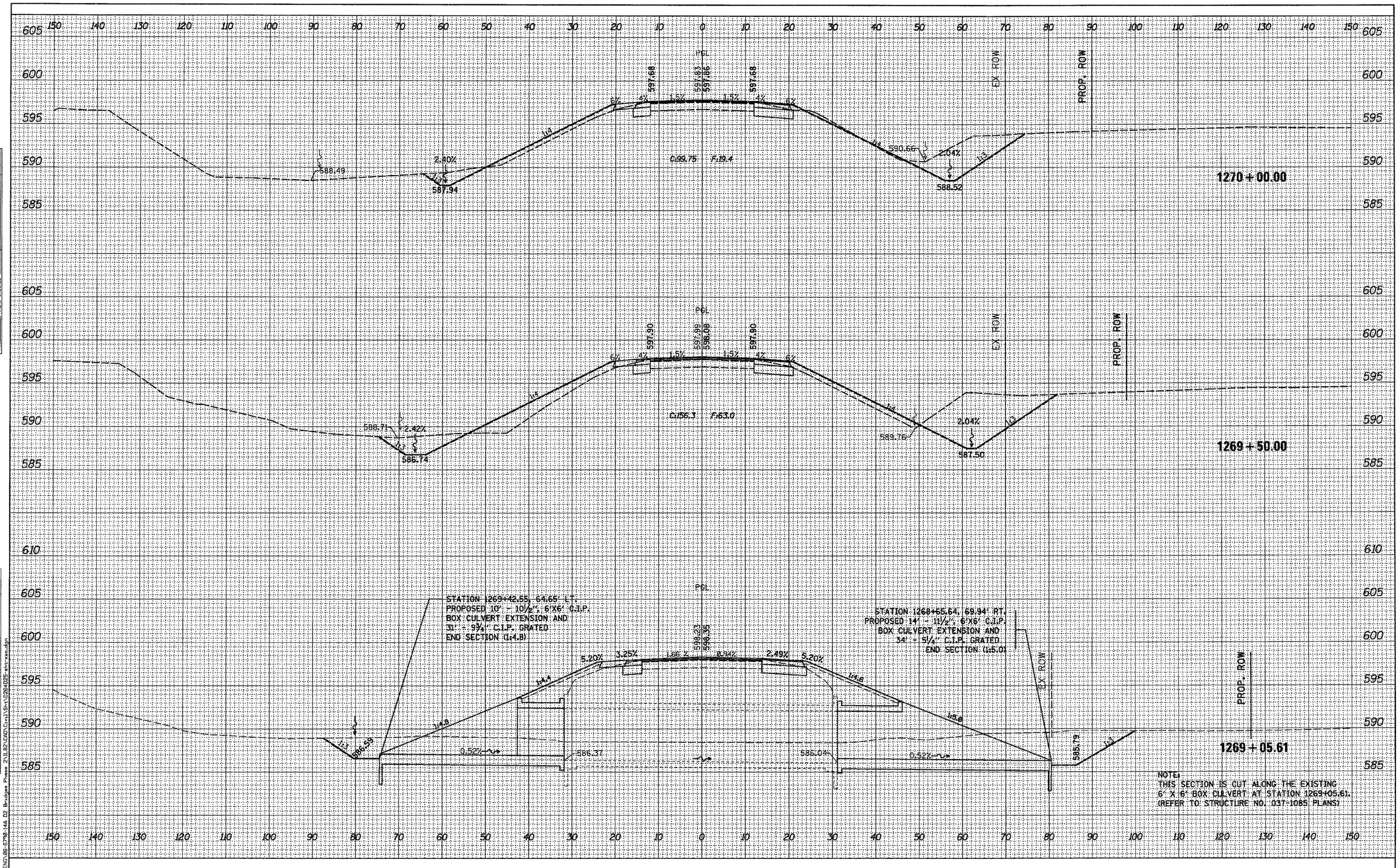
FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS		
NO.	AREAS CHECKED	



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

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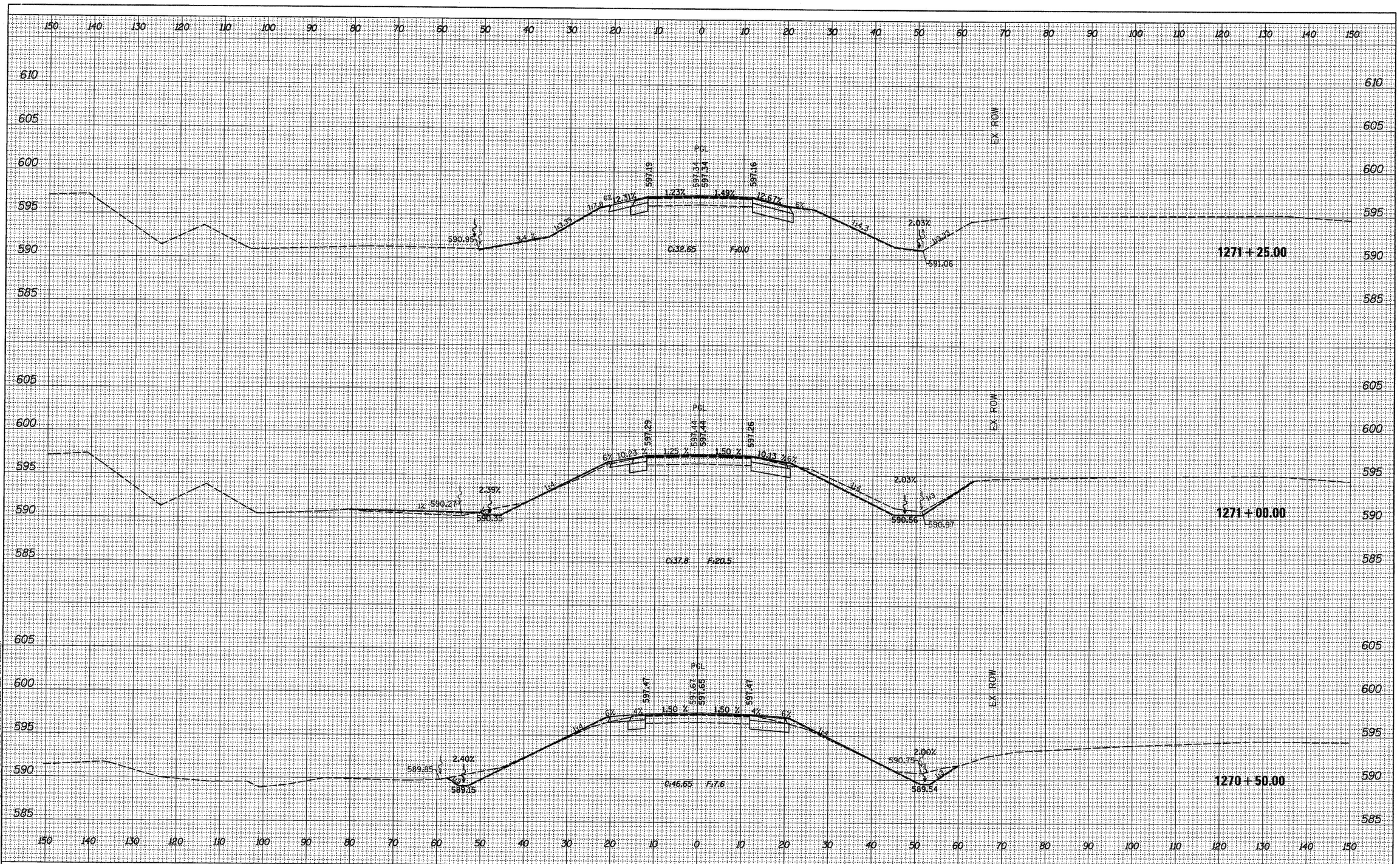
Wight	USER NAME = *USER*	DESIGNED - JNH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS IL 82 OVER GREEN RIVER
		DRAWN - JNH	REVISED -		
	PLOT SCALE = *SCALE*	CHECKED - KMB	REVISED -		
	PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -		

SCALE: 1"=10'V, 5'H | SHEET NO. 15 OF 17 SHEETS | STA. 1269+05.61 | TO STA. 1270+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	91
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			



FINAL SURVEY — NOTE BOOK — NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY — NOTE BOOK — NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

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Wight

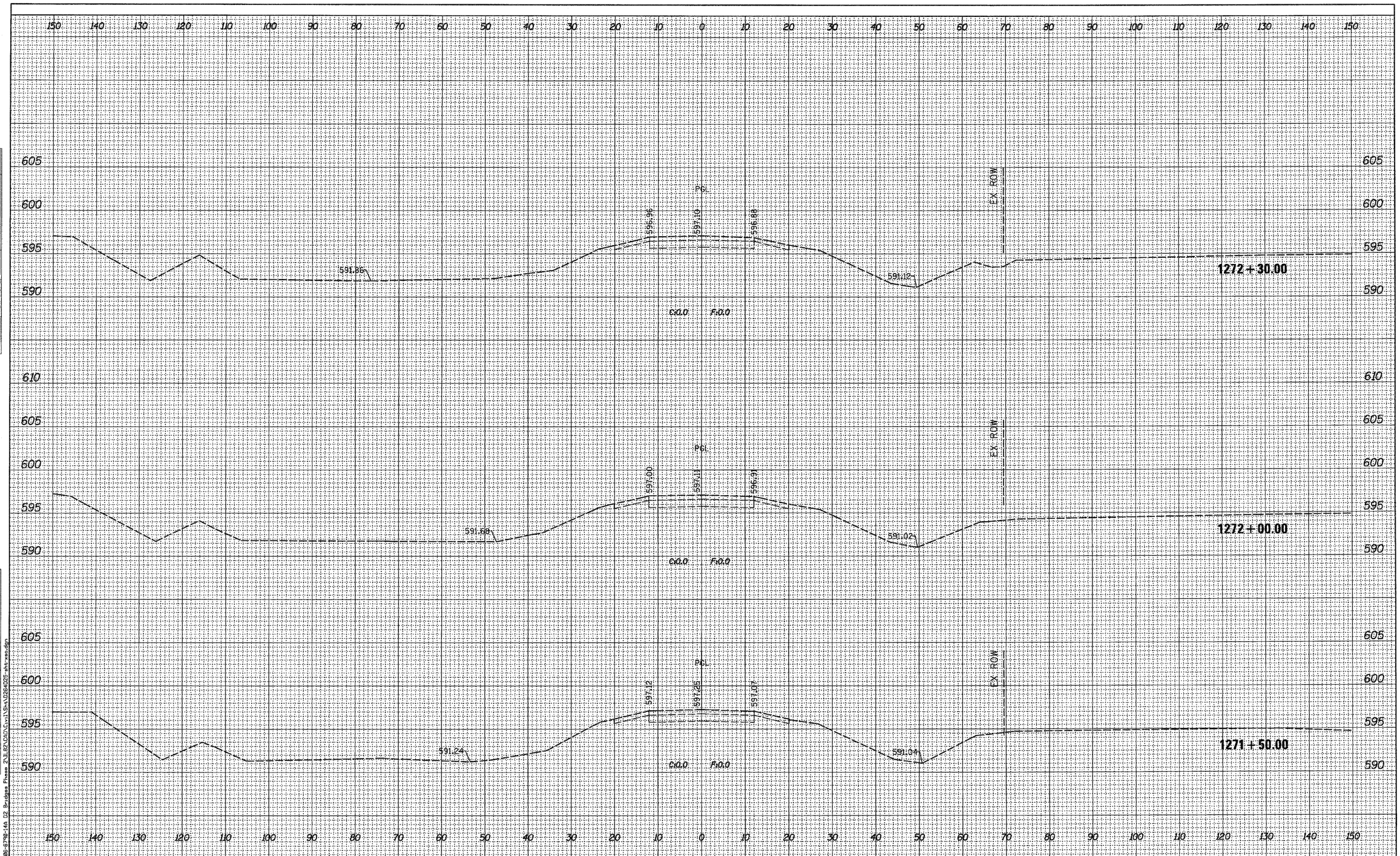
USER NAME = *USER*	DESIGNED - JNH	REVISED -	
	DRAWN - JNH	REVISED -	
PLOT SCALE = *SCALE*	CHECKED - KMB	REVISED -	
PLOT DATE = 10/28/2010	DATE - 08/27/2010	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 82 OVER GREEN RIVER

SCALE: 1"=10'H, 5'V | SHEET NO. 16 OF 17 SHEETS | STA. 1270+50.00 TO STA. 1271+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	92
		CONTRACT NO. 64D25		
	ILLINOIS FED. AID PROJECT			



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

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

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Wight

USER NAME = *USER*	DESIGNED - JNH	REVISED -	
	DRAWN - JNH	REVISED -	
PLOT SCALE = *SCALE*	CHECKED - KMB	REVISED -	
PLOT DATE = 10/20/2010	DATE - 08/27/2010	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 82 OVER GREEN RIVER

SCALE: 1"=10'H, 5'V | SHEET NO. 17 OF 17 SHEETS | STA. 1271+50.00 | TO STA. 1272+30.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR-4	HENRY	93	93
		CONTRACT NO. 64D25		
		ILLINOIS FED. AID PROJECT		