

SQUAD LEADER: JENNIFER LUBBS (815)284-5958 PROJECT ENGINEER: BECKY MARRUFFO
 0264404-shr-cover.dgn 8/3/2009 11:05:15 AM HAS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR	HENRY	42	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 64A04	

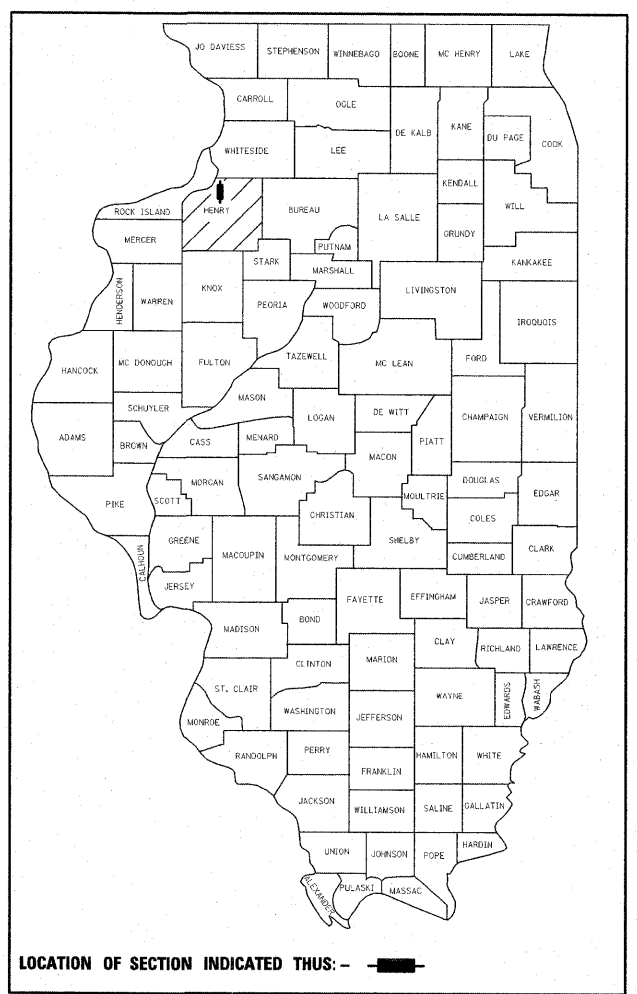
D-92-052-04 *42+1=43

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FAP ROUTE 638 (IL 82)
SECTION 129BR
PROJECT ACBRF-0638(012)
HENRY COUNTY

C 92-059-09
STRUCTURE REPLACEMENT
OVER ELKS BRANCH NORTH OF GENESEO
4TH PM
R3E



FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL (NON URBAN)
DESIGN SPEED: 55 mph
POSTED SPEED: 55 mph
ADT: 2100 (2008)
PV: 91.9%
SU: 6.0%
MU: 2.1%

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED August 5, 2009
 George F. Ryan
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
 October 2, 2009
 Charles C. Ingersoll
 ENGINEER OF DESIGN AND ENVIRONMENT
 October 2, 2009
 Christine M. Reed
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

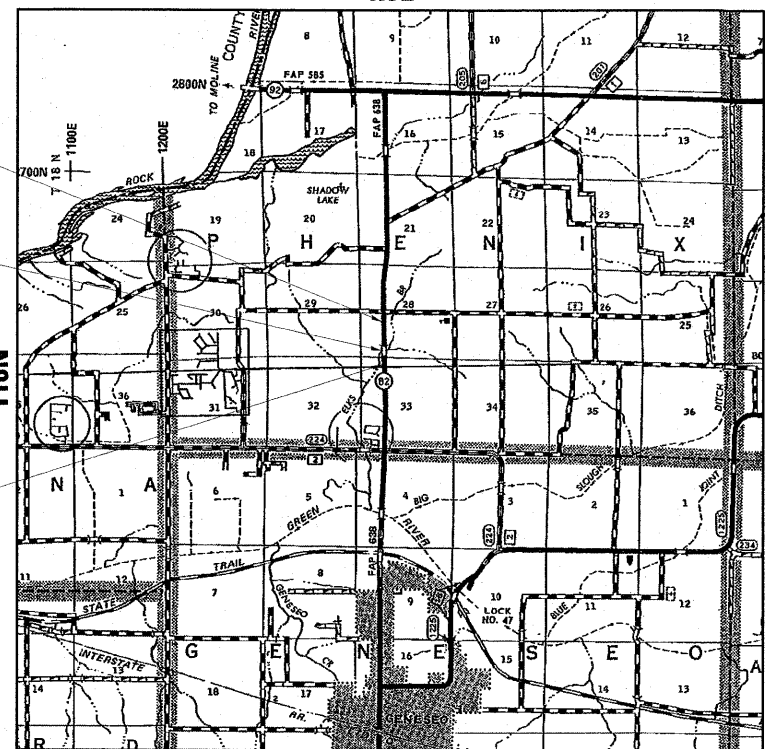
INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	GENERAL NOTES AND STANDARDS
3.	SUMMARY OF QUANTITIES
ROADWAY PLANS - SN 037-2027	
4.-5.	TYPICAL SECTIONS
6.-7.	SCHEDULE OF QUANTITIES
8.	HORIZONTAL AND VERTICAL CONTROL
9.-12.	FAP RTE 638 (IL 82) PLAN AND PROFILE
13.-14.	STAGE CONSTRUCTION PLANS
15.	STAGE CONSTRUCTION DETAILS
16.	EROSION CONTROL AND DRAINAGE PLAN
17.	MISCELLANEOUS DETAILS
STRUCTURE PLANS - SN 037-2027	
18.	GENERAL PLAN
19.	STAGED CONSTRUCTION
20.	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
21.-22.	CULVERT DETAILS
23.	BAR SPLICER ASSEMBLY DETAILS
24.-25.	SOIL BORING LOGS
EXISTING STRUCTURE PLANS - SN 037-2003	
26.	EXISTING STRUCTURE PLANS
CROSS SECTIONS - SN 037-2027	
27.-34.	FAP RTE 638 (IL 82) CROSS SECTIONS
DISTRICT 2 STANDARDS	
35.-42.	GRADING AROUND WINGWALLS (20.4) DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARD RAIL (23.4) SLOPED HEADWALL TYPE 1 FOR FIELD TILE OUTLETS (28.4) DELINEATOR AND POST ORIENTATION (37.4) TYPICAL BENCHING ON EXISTING EMBANKMENT (50.4) LAND SECTION & REFERENCE MARKERS (63.4) STOP LINE SIGN FOR TEMPORARY SIGNALS (99.4) EROSION CONTROL DETAILS FOR SILT FENCE (29.2) FIELD TILE JUNCTION VAULTS 600(24) AND 900(36) DIA. (30.2) INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES) (39.2) WITNESS MARKER & PERMANENT SURVEY MARKERS, TYPE II (66.2) ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS (75.2) STORM WATER POLLUTION PREVENTION PLAN (2.1) TYPICAL PAVEMENT MARKINGS (41.1)

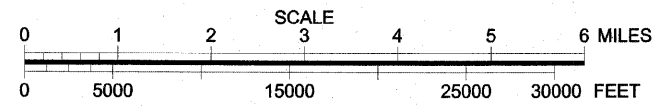
IMPROVEMENTS END
 STA. 1361+00
 SECTIONS ENDS
 STA. 1360+50

STA. 1350+29.74
 SN 037-2027
 TRIPLE
 9' SPAN X 9' RISE
 BOX CULVERT

IMPROVEMENTS BEGIN
 STA. 1347+59
 SECTION BEGINS
 STA. 1348+62



LOCATION MAP



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.

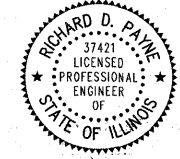
J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR 811

PHENIX TOWNSHIP, SEC. 28, 33

CONTRACT NO. 64A04

FAP 638 (IL 82) SECTION 129BR HENRY COUNTY

GROSS LENGTH = 1188 FT. = 0.23 MI.
NET LENGTH = 1188 FT. = 0.23 MI.



ESCA
 CONSULTANTS, INC.

 CIVIL & STRUCTURAL ENGINEERS
 URBANA, ILLINOIS
 (217)384-0505
 PROJECT ENGINEER: ERIC HENKEL

DATE: 08/03/09
 ILLINOIS PROFESSIONAL LICENSE NO. 37421
 (EXPIRATION DATE: 11-30-09)

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS



- SEE CROSS SECTIONS FOR SPECIAL DITCHES AND BACKSLOPES.
- THE FINAL TOP 4" 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 FEET DEEP) OF SOIL PROFILES OF LOCAL SOILS.
- ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.
- 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 BACKSLOPES AND AREAS BEHIND THE BACKSLOPE, AND BEYOND THE TOE OF FRONT SLOPE ON FILL SECTIONS WITHOUT DITCHES.
- PREVIOUSLY PUGMILLED STOCKPILES OF "TYPE A" OLDER THAN 1 MONTH WILL NOT BE APPROVED FOR USE UNTIL A MOISTURE CHECK IS RUN TO VERIFY MOISTURE CONTENT. MATERIAL SHIPPED TO PROJECTS WITHOUT BEING TESTED WILL NOT BE ACCEPTED.
- THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE(S):	SURFACE COURSE	LEVELING BINDER	HMA SHOULDERS	BOTTOM SHOULDERS
PG:	PG 64-22	PG 64-22	PG 58-22	PG 58-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50	3.0% @ N50	2.0% @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5 OR 12.5	IL 9.5	IL 9.5 OR 12.5	BAM
FRICTION AGGREGATE	C	NA	C	NA
20 YEAR ESAL	0.453	0.453	NA	NA

- THE CONTRACTOR WILL BE REQUIRED TO FURNISH 5/8" 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 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.
- TO HELP AVOID EXCESS DROP OFFS AT THE EDGE OF PAVEMENT, THE EXISTING AGGREGATE WEDGE OR SHOULDER IS TO BE PULLED UP AND ROLLED TO MATCH THE EDGE OF PAVEMENT BEFORE PLACING ANY BITUMINOUS MATERIAL. ALL COSTS ASSOCIATED WITH PULLING UP THE SHOULDERS SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE OF THE TYPE SPECIFIED.
- BITUMINOUS AND AGGREGATE PRIME COAT SHALL BE PLACED IN ACCORDANCE WITH SECTION 406 OF THE STANDARD SPECIFICATIONS. THE COST OF THE PRIME COATS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER TON FOR LEVELING BINDER (MACHINE METHOD) OF THE TYPE SPECIFIED.
- A NATIONWIDE 404 PERMIT HAS BEEN ISSUED FOR THIS PROJECT AND THE CONDITIONS OF THAT PERMIT MUST BE ADHERED TO.
- THE NEW NUMBER FOR THIS STRUCTURE WILL BE 037-2027.
- THE CONTRACTOR SHALL SUBMIT FOUR COPIES OF THE REQUIRED SHOP DRAWINGS FOR REVIEW AND APPROVAL TO THE BUREAU OF BRIDGES AND STRUCTURES, 2300 SOUTH DIRKSEN PARKWAY, SPRINGFIELD, IL 62764. AFTER APPROVAL OF INITIAL SUBMITTAL, THE CONTRACTOR SHALL SUBMIT ONE SET OF SHOP DRAWINGS TO DAVE LIPPERT, ENGINEER OF MATERIALS, 126 EAST ASH STREET, SPRINGFIELD, IL 62706, AND EIGHT (8) SETS OF SHOP DRAWINGS DISTRIBUTED TO:
 - DISTRICT 2 DISTRICT ENGINEER (1)
 - FABRICATOR (1)
 - CONTRACTOR (2)
 - RESIDENT ENGINEER (2)
 - DISTRICT 2 BUREAU OF MATERIALS (2)
- THE REVIEW AND APPROVAL OF THE ALTERATIONS OF THE TEMPORARY CANTILEVERED SHEET PILING DESIGN WILL REQUIRE 4 TO 6 WEEKS. THE CONTRACTOR SHALL SCHEDULE HIS WORK ACCORDINGLY.
- THE PROPOSED PIPES FOR ENTRANCES AND SIDE ROADS SHALL BE PLACED IN LINE WITH THE EXISTING OR PROPOSED DITCH LINE.
- 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.
- IT IS ANTICIPATED THAT TWO MAILBOXES WILL REQUIRE RELOCATION. WHEN THIS IS DONE, THE CONTRACTOR SHALL BE REQUIRED TO MOUNT THE MAILBOX ON A 4" X 4" WOOD POST 40" ABOVE THE SHOULDER SURFACE AND EXTENDING TO A MINIMUM OF 24" INTO THE EMBANKMENT. THIS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE EARTH EXCAVATION. THERE IS AN ESTIMATED 2 MAILBOXES TO BE RELOCATED.
- EMBANKMENT QUANTITIES FOR THE CONSTRUCTION OF THE TRAFFIC BARRIER TERMINALS AS SHOWN IN THE PLANS ARE INCLUDED IN QUANTITIES FOR EARTH EXCAVATION.
- THE CONTRACTOR SHALL SUPPLY THE RESIDENT ENGINEER WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS FOR THE TYPE OF STEEL PLATE BEAM GUARDRAIL TERMINAL TYPE I SPECIAL (FLARED).
- 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.
- 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.
- 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.

- PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:
 - ALL WORDS, SUCH AS ONLY, SHALL BE 8'-0" HIGH.
 - ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
 - THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 8", NOT 7" AS SHOWN IN THE DETAIL OF TYPICAL LANE AND EDGE LINES.
- 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.
- 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.
- THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A DESCRIPTION OF LOCATION, ELEVATION, AND COORDINATES FOR EACH PERMANENT SURVEY MARKER. THE ENGINEER SHALL SUBMIT THIS INFORMATION TO THE SURVEY CREW.
- THE TEMPORARY CONCRETE BARRIER SHALL BE ANCHORED TO THE PAVEMENT WITH 6 ANCHORS PER SECTION AT THE FOLLOWING LOCATIONS:
 - STATION 1349+97 TO 1350+62
- 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 12" INSIDE THE NEW RIGHT-OF-WAY LINE.
- 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 J.U.L.I.E. 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 J.U.L.I.E.
 - GENESEO TELEPHONE CO.
 - MIDAMERICAN ENERGY CO.
 - MEDIACOM
- IN ADDITION, THE FOLLOWING LISTED UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS ARE NOT MEMBERS OF J.U.L.I.E.
 - FARMERS MUTUAL ELECTRIC CO.
- 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.
- THE EXISTING FORESLOPES SHALL BE BENCHMARKED AS SHOWN ON SHEET 35 PRIOR TO CONSTRUCTING THE PROPOSED FINISHED GRADE. THE ENGINEER WILL DETERMINE THE EXACT LOCATIONS AND APPLICATION OF THIS DETAIL. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED IN THE COST OF EARTH EXCAVATION.
- THE COST TO REMOVE EXISTING PIPE CULVERTS AND FIELD TILES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION UNLESS THE PIPES OR HEADWALLS ARE MADE OF CONCRETE OR CLAY.
- 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.
- CULVERT AND BRIDGE FLOWS MUST BE MAINTAINED THROUGHOUT THE PROJECT. NORMAL FLOW SHALL BE ALLOWED TO PASS AT THE RATE IT ENTERS THE JOBSITE. HIGH FLOWS SHALL BE ALLOWED TO PASS WITHOUT CAUSING DAMAGE TO UPSTREAM PROPERTIES.
- 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.
- A PRECAST BOX CULVERT IS NOT AN OPTION ON THE PROJECT DUE TO SOIL CONDITIONS.
- WITHIN TWO DAYS OF REMOVAL OF THE EXISTING GUARDRAIL, THE CONTRACTOR SHALL EITHER INSTALL THE PROPOSED GUARDRAIL, ELIMINATE THE HAZARD, OR SHIELD THE HAZARD WITH TEMPORARY CONCRETE BARRIER AND IMPACT ATTENUATORS. THE DESIGN OF THE TEMPORARY CONCRETE BARRIER AND IMPACT ATTENUATORS SHALL BE REVIEWED AND APPROVED BY THE DEPARTMENT PRIOR TO IMPLEMENTATION. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK, COST INCLUDED IN GUARDRAIL REMOVAL.

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
442201-03	CLASS C AND D PATCHES
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
542401-01	METAL END SECTION FOR PIPE CULVERTS
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
630001-08	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT SPBGR
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
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 15' AWAY
701006-03	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-03	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-10	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-03	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901-01	TRAFFIC CONTROL DEVICES
704001-05	TEMPORARY CONCRETE BARRIER
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)
780001-02	TYPICAL PAVEMENT MARKINGS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS

FILE NAME = D264A04-shr-gennote01.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES AND STANDARDS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - HAS/JPC	REVISED -			638	129BR	HENRY	42	2	
		CHECKED - ELH	REVISED -			CONTRACT NO. 64A04					
		DATE - 08/03/09	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		



SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	CONSTRUCTION
			TYPE CODE X028-2A SN 037-2027
20200100	EARTH EXCAVATION	CU YD	13,500
21301084	EXPLORATION TRENCH 84" DEPTH	FOOT	150
25000210	SEEDING, CLASS 2A	ACRE	2.0
25000310	SEEDING, CLASS 4	ACRE	2.75
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	430
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	430
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	430
25000750	MOWING	ACRE	4.75
25100115	MULCH, METHOD 2	ACRE	1.8
25100630	EROSION CONTROL BLANKET	SQ YD	14,200
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,900
28000300	TEMPORARY DITCH CHECKS	EACH	12
28000400	PERIMETER EROSION BARRIER	FOOT	210
28000500	INLET AND PIPE PROTECTION	EACH	1
28100107	STONE RIPRAP, CLASS A4	SQ YD	3,620
28200200	FILTER FABRIC	SQ YD	3,620
31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	213
35101400	AGGREGATE BASE COURSE, TYPE B	TON	62
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	914
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	50
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	242
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	173
40600990	TEMPORARY RAMP	SQ YD	46
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	440
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	10
44004250	PAVED SHOULDER REMOVAL	SQ YD	121
44201433	CLASS C PATCHES, TYPE IV, 16 INCH	SQ YD	191
48101200	AGGREGATE SHOULDERS, TYPE B	TON	420
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	1,035
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50104400	CONCRETE HEADWALL REMOVAL	EACH	2
50105220	PIPE CULVERT REMOVAL	FOOT	17
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	160
50800105	REINFORCEMENT BARS	POUND	27,860
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	740
50800515	BAR SPLICERS	EACH	114
51205200	TEMPORARY SHEET PILING	SQ FT	1,859
51500100	NAME PLATES	EACH	1
54003000	CONCRETE BOX CULVERTS	CU YD	209.4

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	CONSTRUCTION
			TYPE CODE X028-2A SN 037-2027
54213459	END SECTIONS 24"	EACH	2
54200229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	65
60100935	PIPE DRAINS 10"	FOOT	10
60100945	PIPE DRAINS 12"	FOOT	10
60100955	PIPE DRAINS 15"	FOOT	10
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	3
61140000	STORM SEWERS, SPECIAL 8"	FOOT	80
61140100	STORM SEWERS, SPECIAL 10"	FOOT	55
61140200	STORM SEWERS, SPECIAL 12"	FOOT	55
63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6' POSTS	FOOT	375
63000025	STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES	FOOT	75
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	4
63200310	GUARDRAIL REMOVAL	FOOT	542
63500105	DELINEATORS	EACH	6
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	20
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5
67100100	MOBILIZATION	L SUM	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	2
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	528
70300625	TEMPORARY PAINT PAVEMENT MARKING LINE 4"	FOOT	4,876
70300660	TEMPORARY PAINT PAVEMENT MARKING LINE 24"	FOOT	26
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,854
70400100	TEMPORARY CONCRETE BARRIER	FOOT	675
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	350
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	5,792
78200410	GUARDRAIL MARKERS, TYPE A	EACH	8
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
78300100	PAVEMENT MARKING REMOVAL	SQ FT	257
XX005381	SLOPED HEADWALL TYPE 1	EACH	3
XX006929	REPLACE SECTION CORNER	EACH	1
Z0005400	BREAKER-RUN CRUSHED STONE	TON	178
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2

* SPECIALITY ITEM
) NON-PARTICIPATING (5 SHEETS)

FILE NAME = 0264A04-shvt-soa01.dgn
 USER NAME = HAS
 PLOT SCALE = 8.0033 1/16 IN.
 PLOT DATE = 8/3/2009 10:47:02 AM

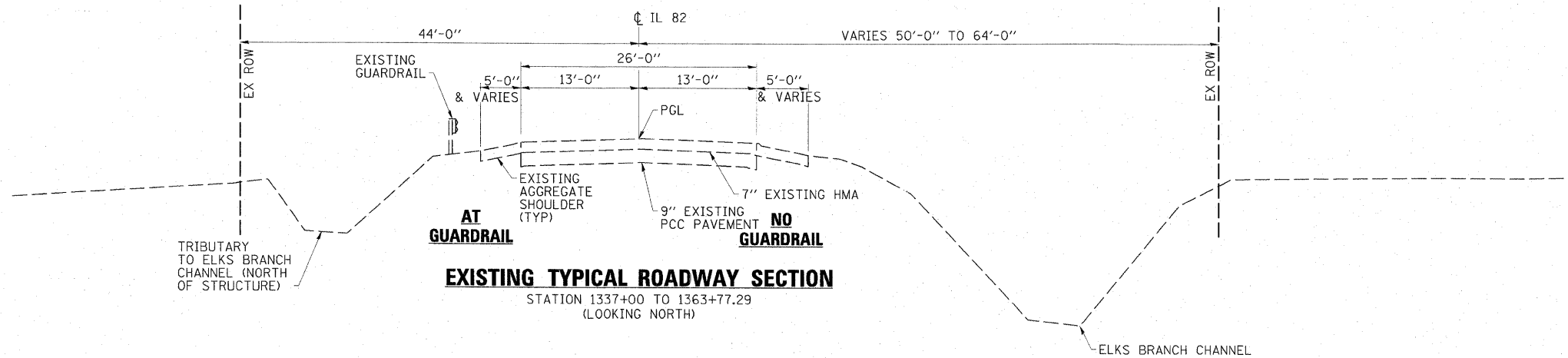
DESIGNED - JMS	REVISED -
DRAWN - JPC	REVISED -
CHECKED - ELH	REVISED -
DATE - 08/03/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

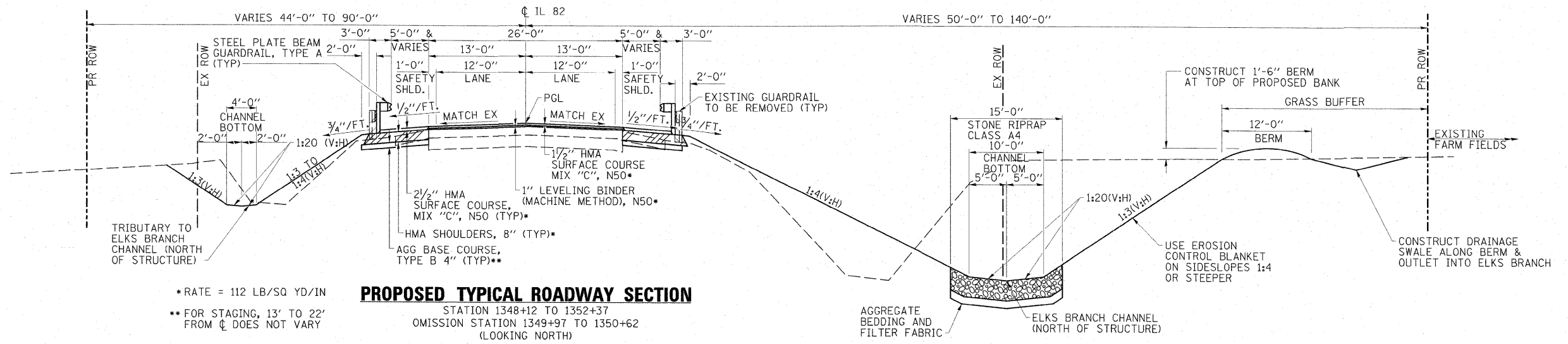
SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 638	SECTION 129BR	COUNTY HENRY	TOTAL SHEETS 42	SHEET NO. 3
CONTRACT NO. 64A04				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL ROADWAY SECTION

STATION 1337+00 TO 1363+77.29
(LOOKING NORTH)

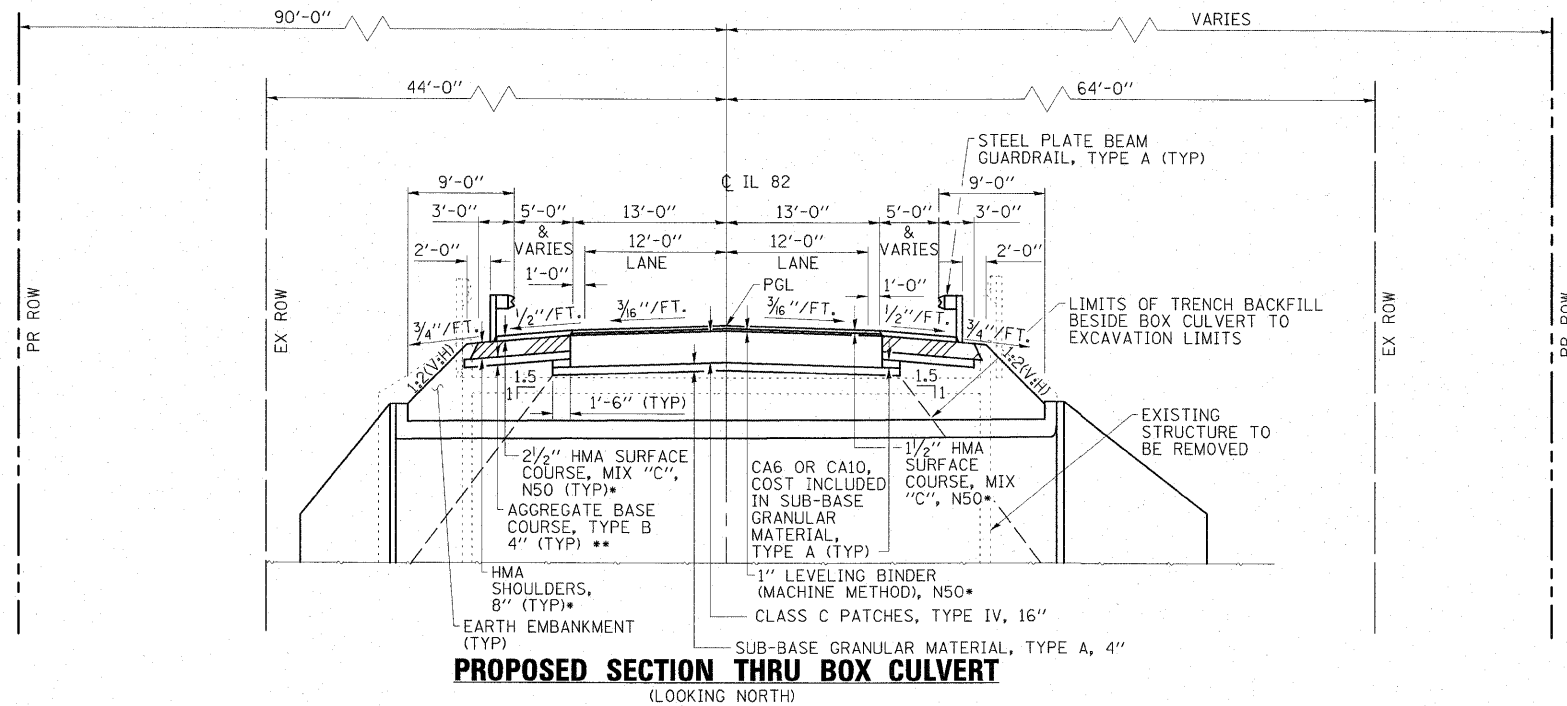
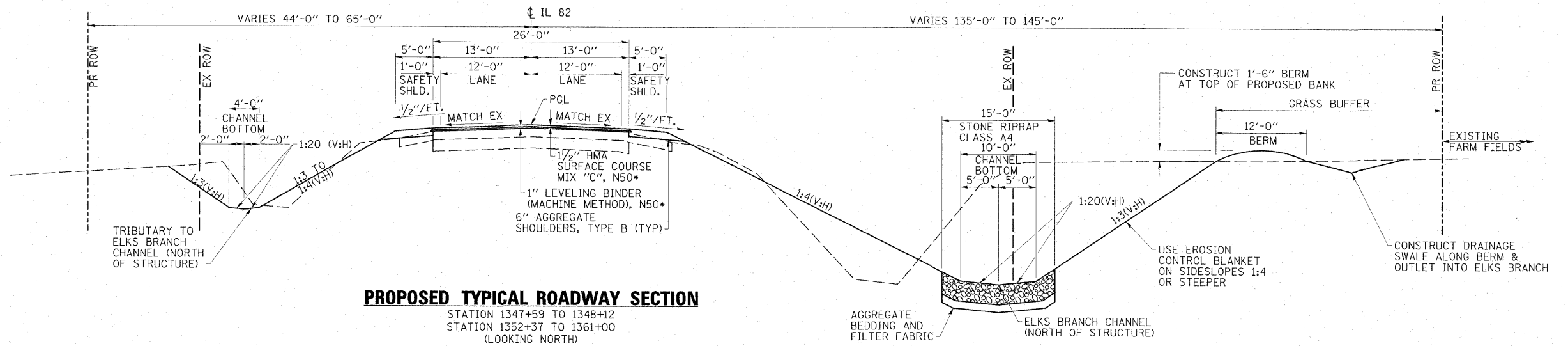


PROPOSED TYPICAL ROADWAY SECTION

STATION 1348+12 TO 1352+37
OMISSION STATION 1349+97 TO 1350+62
(LOOKING NORTH)

*RATE = 112 LB/SQ YD/IN
** FOR STAGING, 13' TO 22' FROM CL DOES NOT VARY

FILE NAME = D264A04-sht-typ1col1.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS		F.A.P. RTE. 638	SECTION 129BR	COUNTY HENRY	TOTAL SHEETS 42	SHEET NO. 4
	PLOT SCALE = 0.0033' / IN.	CHECKED - ELH	REVISED -				SCALE: 1/8" / 1'-0"	SHEET NO. 1 OF 2 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	
PLOT DATE = 7/28/2009	2:51:55 PM	DATE - 07/17/09	REVISED -								



* RATE = 112 LB/SQ YD/IN
** FOR STAGING, 13' TO 22' FROM ϕ DOES NOT VARY

FILE NAME *
D254A04-sht-typsec183.dgn

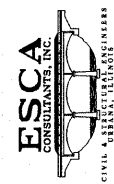
USER NAME - HAS	DESIGNED - JMS	REVISED -
PLOT SCALE = 0.0833' / IN.	DRAWN - HAS/JPC	REVISED -
PLOT DATE = 7/28/2009 2:52:19 PM	CHECKED - ELH	REVISED -
	DATE - 07/17/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

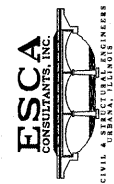
TYPICAL SECTIONS

SCALE: 1/8"=1'-0" SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR	HENRY	42	5
CONTRACT NO. 64A04				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



20200100	FARTH EXCAVATION		28000300	TEMPORARY DITCH CHECKS		40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING
	CU YD LOCATION REMARKS		EACH LOCATION REMARKS		TON LOCATION REMARKS		TON LOCATION REMARKS
	155 LT Sta. 1347+58 to 1349+93		1 RT Sta. 1349+15		10 LT PE Sta. 1348+46.50		10 LT PE Sta. 1348+46.50
	330 RT Sta. 1347+89 to 1350+01		1 RT Sta. 1349+55		10 TOTAL		
	1,320 LT Sta. 1350+57 to 1361+02		2 LT & RT Sta. 1351+00				
	11,695 Rt Sta. 1350+75 to 1361+02		1 RT Sta. 1352+00				44004250
	13,500 TOTAL		1 LT Sta. 1352+70				PAVED SHOULDER REMOVAL
21301084	EXPLORATION TRENCH 84" DEPTH		1 RT Sta. 1354+30				SQ YD LOCATION REMARKS
	FOOT LOCATION REMARKS		1 RT Sta. 1355+00				41 LT Sta. 1348+46.50 PE
	50 RT Sta. 1350+15		1 LT Sta. 1356+25				29 RT Sta. 1348+50 MBTO
	50 RT Sta. 1350+70		1 RT Sta. 1358+00				51 RT Sta. 1350+00 to 1350+65
	50 RT Sta. 1359+05		1 LT Sta. 1360+00				121 TOTAL
	150 TOTAL		12 TOTAL				
25000210	SEEDING, CLASS 2A		28000400	PERIMETER EROSION BARRIER		44201433	CLASS C PATCHES, TYPE IV, 16"
	ACRE LOCATION REMARKS		FOOT LOCATION REMARKS		SQ YD LOCATION REMARKS		SQ YD LOCATION REMARKS
	0.15 LT Sta. 1347+58 to 1349+93		210 LT Sta. 1347+65 to 1349+90		191 Sta. 1349+97 to 1350+62		191 TOTAL
	0.15 RT Sta. 1347+89 to 1350+01		210 TOTAL				
	0.6 LT Sta. 1350+57 to 1361+02						
	1.1 Rt Sta. 1350+75 to 1361+02						
	2.0 TOTAL						
25000310	SEEDING, CLASS 4		28000500	INLET AND PIPE PROTECTION		48101200	AGGREGATE SHOULDERS, TYPE B
	ACRE LOCATION REMARKS		EACH LOCATION REMARKS		TON LOCATION REMARKS		TON LOCATION REMARKS
	0.35 LT Sta. 1350+57 to 1361+02		1 RT Sta. 1348+17.62		13.4 LT Sta. 1347+59 to 1348+18		2 LT Sta. 1348+46.50 PE
	2.4 Rt Sta. 1350+75 to 1361+02		1 TOTAL		197 RT Sta. 1352+15 to 1361+00		201.6 LT Sta. 1352+35 to 1361+00
	2.75 TOTAL				6 RT Sta. 1347+90 to 1348+12		420 TOTAL
25000400	NITROGEN FERTILIZER NUTRIENT		28200200	FILTER FABRIC		48203029	HOT-MIX ASPHALT SHOULDERS, 8"
	POUND LOCATION REMARKS		SQ YD LOCATION REMARKS		SQ YD LOCATION REMARKS		SQ YD LOCATION REMARKS
	14 LT Sta. 1347+58 to 1349+93		3,620 SN 037-2027		515 LT Sta. 1348+14 to 1352+37		469 RT Sta. 1348+12 to 1352+15
	14 RT Sta. 1347+89 to 1350+01		3,620 TOTAL		51 RT Sta. 1350+00 to 1350+65		1,035 TOTAL
	87 LT Sta. 1350+57 to 1361+02						
	315 Rt Sta. 1350+75 to 1361+02						
	430 TOTAL						
25000500	PHOSPHOROUS FERTILIZER NUTRIENT		31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"		50104400	CONCRETE HEADWALL REMOVAL
	POUND LOCATION REMARKS		SQ YD LOCATION REMARKS		EACH LOCATION REMARKS		EACH LOCATION REMARKS
	14 LT Sta. 1347+58 to 1349+93		213 Sta. 1349+97 to 1350+62		2 RT FE Sta. 1348+17.62		2 TOTAL
	14 RT Sta. 1347+89 to 1350+01		213 TOTAL		2 TOTAL		
	87 LT Sta. 1350+57 to 1361+02						
	315 Rt Sta. 1350+75 to 1361+02						
	430 TOTAL						
25000600	POTASSIUM FERTILIZER NUTRIENT		35101400	AGGREGATE BASE COURSE, TYPE B		50105220	PIPE CULVERT REMOVAL
	POUND LOCATION REMARKS		TON LOCATION REMARKS		FOOT LOCATION REMARKS		FOOT LOCATION REMARKS
	14 LT Sta. 1347+58 to 1349+93		52 RT FE Sta. 1348+17.62		17 RT FE Sta. 1348+17.62		17 TOTAL
	14 RT Sta. 1347+89 to 1350+01		10 LT PE Sta. 1348+46.50		17 TOTAL		
	87 LT Sta. 1350+57 to 1361+02		62 TOTAL				
	315 Rt Sta. 1350+75 to 1361+02						
	430 TOTAL						
25000750	MOWING		35101600	AGGREGATE BASE COURSE, TYPE B 4"		54213459	END SECTIONS 24"
	ACRE LOCATION REMARKS		SQ YD LOCATION REMARKS		EACH LOCATION REMARKS		EACH LOCATION REMARKS
	0.15 LT Sta. 1347+58 to 1349+93		333 RT Sta. 1348+42.5 to 1352+17.5		2 RT FE Sta. 1348+17.62		2 TOTAL
	0.15 RT Sta. 1347+89 to 1350+01		523 LT Sta. 1348+42.5 to 1352+17.5		2 TOTAL		
	0.95 LT Sta. 1350+57 to 1361+02		58 RT Sta. 1349+97 to 1350+62				
	3.5 Rt Sta. 1350+75 to 1361+02		914 TOTAL				
	4.75 TOTAL						
25100115	MULCH, METHOD 2		40201000	AGGREGATE FOR TEMPORARY ACCESS		542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"
	ACRE LOCATION REMARKS		TON LOCATION REMARKS		FOOT LOCATION REMARKS		FOOT LOCATION REMARKS
	0.2 LT Sta. 1347+58 to 1361+02		50 LT Sta. 1347+59 to 1348+39		65 RT FE Sta. 1348+17.62		65 TOTAL
	1.6 RT Sta. 1347+89 to 1361+02		50 TOTAL				
	1.8 TOTAL						
25100630	EROSION CONTROL BLANKET		40600625	LEVELING BINDER (MACHINE METHOD), N50		60100935	PIPE DRAINS 10"
	SQ YD LOCATION REMARKS		TON LOCATION REMARKS		FOOT LOCATION REMARKS		FOOT LOCATION REMARKS
	9,500 RT Sta. 1347+89 to 1361+02		242 Sta. 1348+62 to 1360+50		10 RT Sta. 1350+15		10 TOTAL
	4,700 LT Sta. 1350+57 to 1361+02		242 TOTAL		10 TOTAL		
	14,200 TOTAL						
28000250	TEMPORARY EROSION CONTROL SEEDING		40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT		60100945	PIPE DRAINS 12"
	POUND LOCATION REMARKS		SQ YD LOCATION REMARKS		FOOT LOCATION REMARKS		FOOT LOCATION REMARKS
	60 LT Sta. 1347+58 to 1349+93		86.5 Sta. 1348+12		10 RT Sta. 1350+70		10 TOTAL
	60 RT Sta. 1347+89 to 1350+01		86.5 Sta. 1361+00		10 TOTAL		
	380 LT Sta. 1350+57 to 1361+02		173 TOTAL				
	1,400 Rt Sta. 1350+75 to 1361+02						
	1,900 TOTAL						
			40600990	TEMPORARY RAMP		60100955	PIPE DRAINS 15"
			SQ YD LOCATION REMARKS		FOOT LOCATION REMARKS		FOOT LOCATION REMARKS
			23 Sta. 1348+12		10 RT Sta. 1359+05		10 TOTAL
			23 Sta. 1361+00		10 TOTAL		
			46 TOTAL				
			40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50		61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.
			TON LOCATION REMARKS		EACH LOCATION REMARKS		EACH LOCATION REMARKS
			316 Sta. 1348+12 to 1361+00		1 RT Sta. 1350+15		1 RT Sta. 1350+70
			64 LT Sta. 1348+14 to 1352+37		1 RT Sta. 1350+70		1 RT Sta. 1359+05
			60 RT Sta. 1348+12 to 1352+15		1 RT Sta. 1359+05		3 TOTAL
			440 TOTAL		3 TOTAL		



61140000	<u>STORM SEWERS, SPECIAL 8"</u>		
	FOOT LOCATION	REMARKS	
	80 RT Sta. 1350+15		
	80 TOTAL		
61140100	<u>STORM SEWERS, SPECIAL 10"</u>		
	FOOT LOCATION	REMARKS	
	55 RT Sta. 1350+70		
	55 TOTAL		
61140200	<u>STORM SEWERS, SPECIAL 12"</u>		
	FOOT LOCATION	REMARKS	
	55 RT Sta. 1359+05		
	55 TOTAL		
63000001	<u>STEEL PLATE BEAM GUARD RAIL, TYPE A, 6' POSTS</u>		
	CU YD LOCATION	REMARKS	
	187.5 LT Sta. 1349+25.7 to 1351+44.4	Less rail attached to structure	
	187.5 RT Sta. 1349+08.7 to 1351+27.4	Less rail attached to structure	
	375 TOTAL		
63000025	<u>STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES</u>		
	FOOT LOCATION	REMARKS	
	37.5 LT Sta. 1350+07 to 1350+44.5	3'-1 1/2" MAX. POST SPACING	
	37.5 RT Sta. 1350+15.3 to 1350+52.8	3'-1 1/2" MAX. POST SPACING	
	75 TOTAL		
63100169	<u>TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED</u>		
	EACH LOCATION	REMARKS	
	1 RT Sta. 1348+59		
	1 LT Sta. 1348+76		
	1 RT Sta. 1351+84		
	1 LT Sta. 1352+01		
	4 TOTAL		
63200310	<u>GUARDRAIL REMOVAL</u>		
	FOOT LOCATION	REMARKS	
	103 SW SN 037-2003		
	168 SE SN 037-2003		
	168 NW SN 037-2003		
	103 NE SN 037-2003		
	542 TOTAL		
63500105	<u>DELINEATORS</u>		
	EACH LOCATION	REMARKS	
	2 RT Sta. 1348+17.62		
	1 RT Sta. 1348+59		
	1 LT Sta. 1348+76		
	1 RT Sta. 1351+84		
	1 LT Sta. 1352+01		
	6 TOTAL		
66600105	<u>FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS</u>		
	EACH LOCATION	REMARKS	
	2 RT Sta. 1348+00		
	1 RT Sta. 1348+50		
	2 LT & RT Sta. 1349+00		
	2 LT Sta. 1349+75		
	1 RT Sta. 1350+00		
	1 LT Sta. 1350+75		
	2 LT & RT Sta. 1351+00		
	1 LT Sta. 1352+00		
	2 LT & RT Sta. 1353+00		
	1 RT Sta. 1356+00		
	1 RT Sta. 1359+00		
	1 LT Sta. 1360+00		
	2 RT Sta. 1361+00		
	1 LT Sta. 1362+00		
	20 TOTAL		
66700305	<u>PERMANENT SURVEY MARKERS, TYPE II</u>		
	EACH LOCATION	REMARKS	
	2 SN 037-2027		
	2 TOTAL		
67000400	<u>ENGINEER'S FIELD OFFICE, TYPE A</u>		
	CAL MO LOCATION	REMARKS	
	5 SN 037-2027		
	5 TOTAL		
67100100	<u>MOBILIZATION</u>		
	L SUM LOCATION	REMARKS	
	1 SN 037-2027		
	1 TOTAL		

70100405	<u>TRAFFIC CONTROL AND PROTECTION, STANDARD 701321</u>		
	EACH LOCATION	REMARKS	
	1 SN 037-2027		
	1 TOTAL		
70100450	<u>TRAFFIC CONTROL AND PROTECTION, STANDARD 701201</u>		
	L SUM LOCATION	REMARKS	
	1 SN 037-2027		
	1 TOTAL		
70100500	<u>TRAFFIC CONTROL AND PROTECTION, STANDARD 701326</u>		
	L SUM LOCATION	REMARKS	
	1 SN 037-2027		
	1 TOTAL		
70103815	<u>TRAFFIC CONTROL SURVEILLANCE</u>		
	CAL DA LOCATION	REMARKS	
	2 SN 037-2027		
	2 TOTAL		
70106500	<u>TEMPORARY BRIDGE TRAFFIC SIGNALS</u>		
	EACH LOCATION	REMARKS	
	1 SN 037-2027		
	1 TOTAL		
70300100	<u>SHORT-TERM PAVEMENT MARKING</u>		
	FOOT LOCATION	REMARKS	
	68 Sta. 1346+73.5 to 1353+80.5	Yellow centerline striping	
	396 Sta. 1348+12 to 1361+00	3 applications of yellow centerline striping	
	32 RT Sta. 1348+12 to 1352+16	2 applications of white edgeline striping	
	32 LT Sta. 1348+14 to 1352+38	2 applications of white edgeline striping	
	528 TOTAL		
70300625	<u>TEMPORARY PAINT PAVEMENT MARKING LINE 4"</u>		
	FOOT LOCATION	REMARKS	
	2576 LT & RT Sta. 1348+12 to 1361+00	White edgeline striping	
	320 Sta. 1348+12 to 1361+00	Yellow skip-dash centerline striping	
	345 Sta. 1348+57.50 to 1352+02.50	Stage I	
	660 Sta. 1347+33.50 to 1353+70.50	Stage I	
	345 Sta. 1348+57.50 to 1352+02.50	Stage II	
	630 Sta. 1347+01.50 to 1353+14.50	Stage II	
	4,876 TOTAL		
70300660	<u>TEMPORARY PAINT PAVEMENT MARKING LINE 24"</u>		
	FOOT LOCATION	REMARKS	
	13 Sta. 1346+73.50	Stage I	
	13 Sta. 1353+80.50	Stage I	
	26 TOTAL		
70301000	<u>WORK ZONE PAVEMENT MARKING REMOVAL</u>		
	SQ FT LOCATION	REMARKS	
	880 LT & RT Sta. 1348+12 to 1361+00	Edgeline striping	
	261 Sta. 1348+12 to 1361+00	Centerline striping	
	115 Sta. 1348+57.50 to 1352+02.50	Stage I	
	220 Sta. 1347+33.50 to 1353+70.50	Stage I	
	115 Sta. 1348+57.50 to 1352+02.50	Stage II	
	211 Sta. 1347+01.50 to 1353+14.50	Stage II	
	26 Sta. 1346+73.50	Stage II	
	26 Sta. 1353+80.50	Stage II	
	1,854 TOTAL		
70400100	<u>TEMPORARY CONCRETE BARRIER</u>		
	FOOT LOCATION	REMARKS	
	675 Sta. 1348+42.5 to 1352+17.5	Stage I	
	675 TOTAL		
70400200	<u>RELOCATE TEMPORARY CONCRETE BARRIER</u>		
	FOOT LOCATION	REMARKS	
	350 Sta. 1348+67.5 to 1352+05	Stage II	
	350 TOTAL		
78001110	<u>PAINT PAVEMENT MARKING - LINE 4"</u>		
	FOOT LOCATION	REMARKS	
	5152 LT & RT Sta. 1348+12 to 1361+00	White edgeline striping, 2 applications	
	640 Sta. 1348+12 to 1361+00	Yellow skip-dash centerline striping, 2 applications	
	5,792 TOTAL		
78200410	<u>GUARDRAIL MARKERS, TYPE A</u>		
	EACH LOCATION	REMARKS	
	4 SN 037-2027, West		
	4 SN 037-2027, East		
	8 TOTAL		

78201000	<u>TERMINAL MARKER - DIRECT APPLIED</u>		
	EACH LOCATION	REMARKS	
	1 RT Sta. 1348+59		
	1 LT Sta. 1348+76		
	1 RT Sta. 1351+84		
	1 LT Sta. 1352+01		
	4 TOTAL		
78300100	<u>PAVEMENT MARKING REMOVAL</u>		
	SQ FT LOCATION	REMARKS	
	24.5 Sta. 1346+73.5 to 1349+67.5	Centerline striping, Stage I	
	24 Sta. 1350+92.5 to 1353+80.5	Centerline striping, Stage I	
	115 RT Sta. 1348+57.5 to 1352+02.5	Edgeline striping, Stage I	
	45.5 LT Sta. 1348+57.5 to 1349+94	Edgeline striping, Stage II	
	48 LT Sta. 1350+59 to 1352+02.5	Edgeline striping, Stage II	
	257 TOTAL		
XX005381	<u>SLOPED HEADWALL, TYPE 1</u>		
	EACH LOCATION	REMARKS	
	1 RT Sta. 1350+15		
	1 RT Sta. 1350+70		
	1 RT Sta. 1359+05		
	3 TOTAL		
XX006929	<u>REPLACE SECTION CORNER</u>		
	EACH LOCATION	REMARKS	
	1 RT Sta. 1354+08.73, 28.10'		
	1 TOTAL		
Z0013798	<u>CONSTRUCTION LAYOUT</u>		
	L SUM LOCATION	REMARKS	
	1 SN 037-2027		
	1 TOTAL		
Z0030250	<u>IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3</u>		
	EACH LOCATION	REMARKS	
	1 Sta. 1348+42.5	Stage I	
	1 Sta. 1352+17.5	Stage I	
	2 TOTAL		
Z0030260	<u>IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3</u>		
	EACH LOCATION	REMARKS	
	1 Sta. 1348+80	Stage I	
	1 Sta. 1351+80	Stage I	
	2 TOTAL		
Z0030350	<u>IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3</u>		
	EACH LOCATION	REMARKS	
	1 Sta. 1348+67.5	Stage II	
	1 Sta. 1352+05	Stage II	
	2 TOTAL		

LOCATION	20200100			
	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE
	(CU YD)	(CU YD)	(CU YD)	WASTE (+) SHORTAGE (-)
LT STA. 1347+58 TO 1349+93	155	116	240	-124
RT STA. 1347+89 TO 1350+01	330	247	130	+117
LT STA. 1350+57 TO 1361+02	1,320	990	780	+210
RT STA. 1350+75 TO 1361+02	11,695	8,772	2,880	+5,892
STA. 1349+97 TO 1350+62	635*	476	330	+146
TOTALS	14,135	10,601	4,360	+6,241

EXCAVATION USED AS EMBANKMENT = EARTH EXCAVATION * 0.75
* COST INCLUDED IN CONCRETE BOX CULVERT



CHAIN IL82 DESCRIPTION

Chain IL82 contains:
20 CUR 200 CUR 210 220 CUR 230 72

Beginning chain IL82 description

Point 20 N 1,750,306.0710 E 2,298,872.5550 Sta 1205+21.7200

Course from 20 to PC 200 0° 23' 09.9713" Dist 1,797.7938

Curve Data

Curve 200
P.I. Station 1225+19.5138 N 1,752,303.8195 E 2,298,886.0176
Delta = 1° 58' 52.2273" (LT)
Degree = 0° 29' 43.2345"
Tangent = 200.0000
Length = 399.9601
Radius = 11,566.8918
External = 1.7289
Long Chord = 399.9402
Mid. Ord. = 1.7287
P.C. Station 1223+19.5138 N 1,752,103.8240 E 2,298,884.6698
P.T. Station 1227+19.4740 N 1,752,503.7420 E 2,298,880.4504
C.C. N 1,752,181.7701 E 2,287,318.0406
Back = 0° 23' 09.9714"
Ahead = 358° 24' 17.7441"
Chord Bear = 359° 23' 43.8578"

Course from PT 200 to PC 210 358° 24' 17.7441" Dist 628.9749

Curve Data

Curve 210
P.I. Station 1237+16.8489 N 1,753,500.7304 E 2,298,852.6879
Delta = 3° 41' 00.0000" (RT)
Degree = 0° 30' 00.2943"
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+48.4489 N 1,753,132.4732 E 2,298,862.9425
P.T. Station 1240+84.9951 N 1,753,868.8858 E 2,298,866.1120
C.C. N 1,753,451.3940 E 2,310,315.7855
Back = 358° 24' 17.7441"
Ahead = 2° 05' 17.7441"
Chord Bear = 0° 14' 47.7441"

Course from PT 210 to 220 2° 05' 17.7441" Dist 4,677.7062

Point 220 N 1,758,543.4854 E 2,299,036.5628 Sta 1287+62.7013

Course from 220 to PC 230 2° 06' 56.2770" Dist 2,606.7891

Curve Data

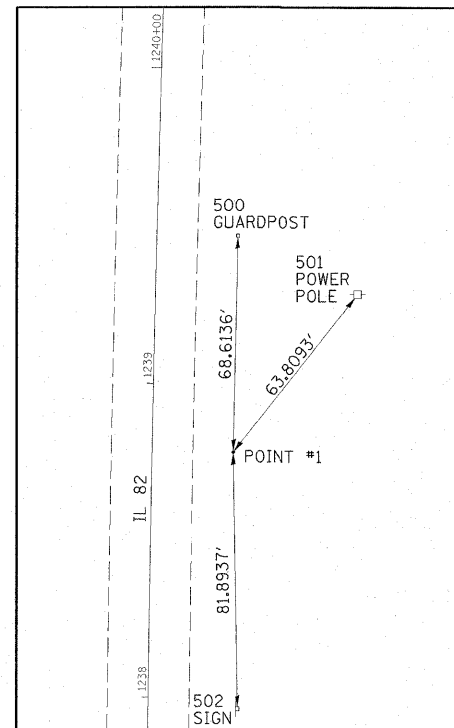
Curve 230
P.I. Station 1317+07.9420 N 1,761,486.7185 E 2,299,145.2904
Delta = 3° 18' 45.3391" (LT)
Degree = 0° 29' 22.2404"
Tangent = 338.4516
Length = 676.7147
Radius = 11,704.6920
External = 4.8923
Long Chord = 676.6204
Mid. Ord. = 4.8902
P.C. Station 1313+69.4904 N 1,761,148.4976 E 2,299,132.7960
P.T. Station 1320+46.2051 N 1,761,825.0963 E 2,299,138.2204
C.C. N 1,761,580.5922 E 2,287,436.0824
Back = 2° 06' 56.2770"
Ahead = 358° 48' 10.9379"
Chord Bear = 0° 27' 33.6075"

Course from PT 230 to 72 358° 48' 10.9379" Dist 5,906.9530

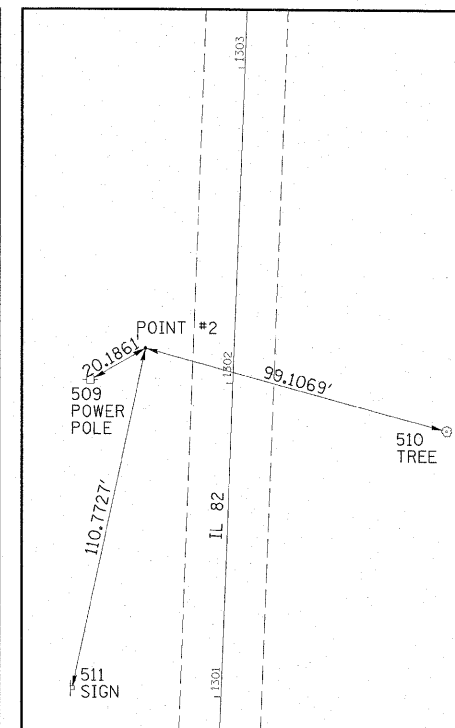
Point 72 N 1,767,730.7603 E 2,299,014.8276 Sta 1379+53.1581

Ending chain IL82 description

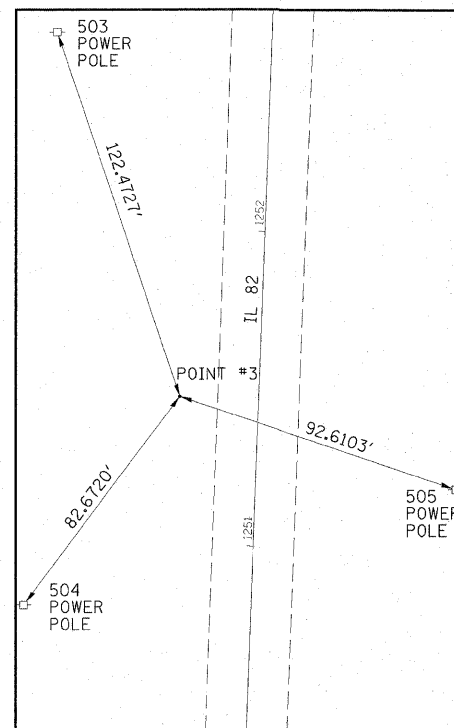
HORIZONTAL AND VERTICAL CONTROL



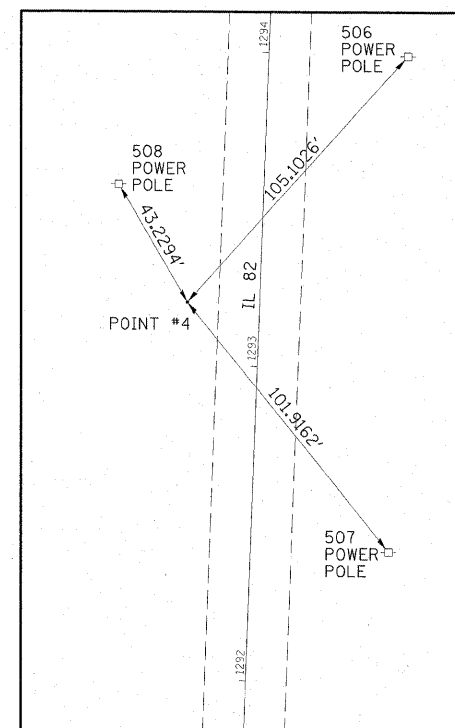
HORIZONTAL CONTROL POINT NO. 1



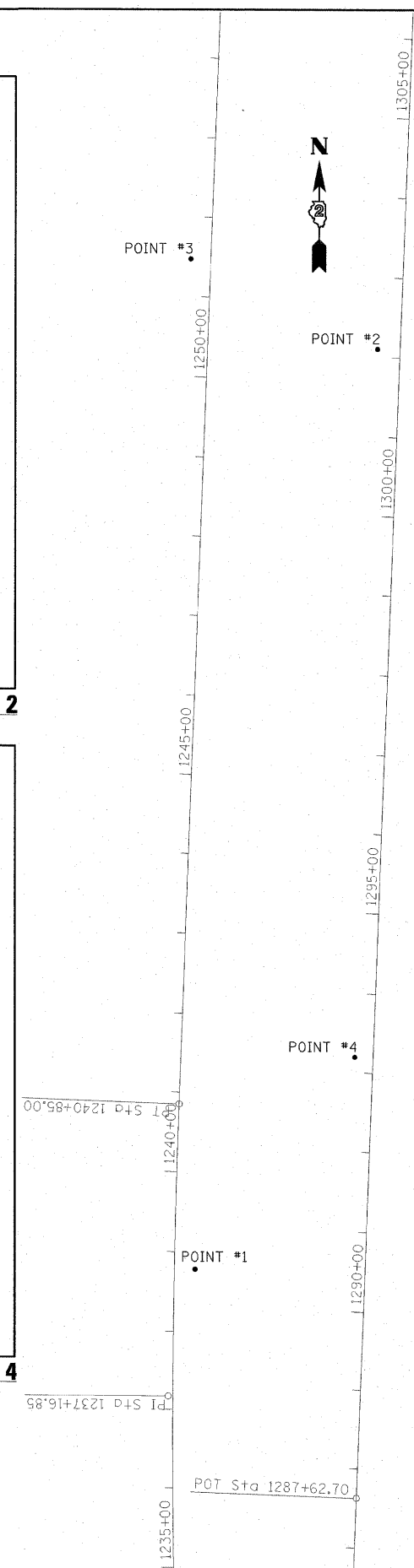
HORIZONTAL CONTROL POINT NO. 2



HORIZONTAL CONTROL POINT NO. 3



HORIZONTAL CONTROL POINT NO. 4



REFERENCE TIES				
POINT	CHAIN	STATION	OFFSET	DESCRIPTION
500	IL82	1239+47.2484	25.7424	GUARDPOST
501	IL82	1239+29.6963	64.3248	POWER POLE
502	IL82	1237+96.6006	28.3775	SIGN
503	IL82	1252+61.3100	-68.3481	POWER POLE
504	IL82	1250+78.8601	-72.2674	POWER POLE
505	IL82	1251+20.3804	63.7069	POWER POLE
506	IL82	1294+00.4809	44.1598	POWER POLE
507	IL82	1292+42.6514	43.8911	POWER POLE
508	IL82	1293+56.6562	-46.1638	POWER POLE
509	IL82	1301+99.2643	-45.2334	POWER POLE
510	IL82	1301+87.5835	68.4343	SIGN
511	IL82	1301+00.8610	-47.2991	TREE

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	1753662.1430	2298886.2210	0	IL82	1238+78.6471	25.7752	GPS CONTROL POINT
2	1759990.7950	2299061.8960	0	IL82	1302+09.9596	-28.1135	GPS CONTROL POINT
3	1754930.8370	2298879.7440	0		1251+46.7378	-25.0735	GPS CONTROL POINT
4	1759100.8420	2299034.1900	0		1293+19.5904	-22.9468	GPS CONTROL POINT

BENCH MARKS		
POINT	ELEVATION	DESCRIPTION
76	619.0300	Chiseled Square on SE Wingwall of box culvert over Elks Branch, Rte 82, Hse #24899
86	627.7670	Chiseled Square on HW, SE corner Rte 82 and Road, 2550N & 1420E

FILE NAME = D264A04-sht-01.dgn

USER NAME = HAS

DESIGNED - JMS
DRAWN - RJT

REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HORIZONTAL & VERTICAL CONTROL

F.A.P. 638 SECTION 129BR COUNTY HENRY TOTAL SHEETS 42 SHEET NO. 8

PLOT SCALE = 0.0033" / 1"

CHECKED - ELH
DATE - 07/17/09

REVISED -
REVISED -

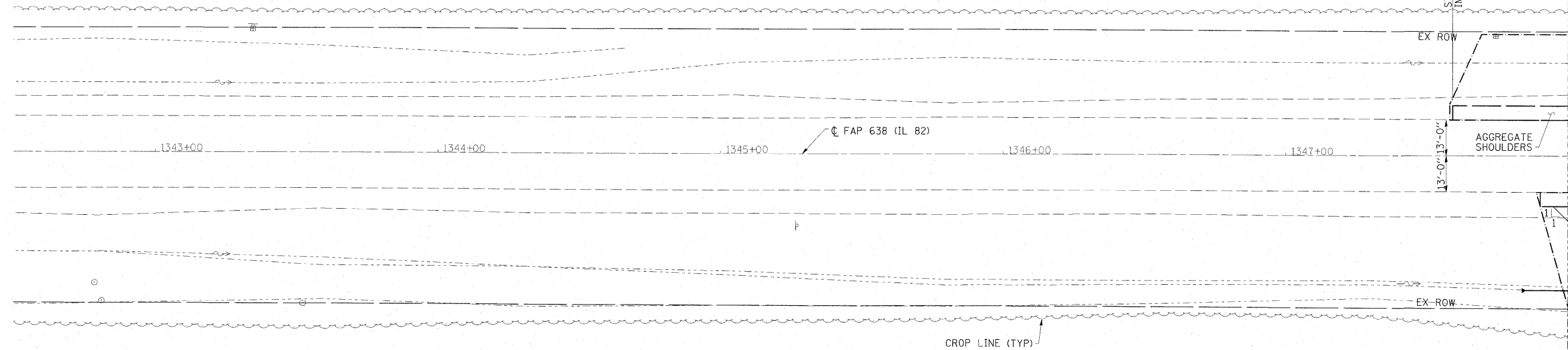
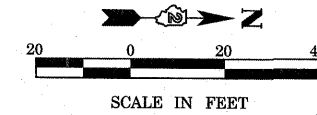
REVISED -
REVISED -

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

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

CONTRACT NO. 64A04

SECTION 33, T18N, R3E, 4TH PM

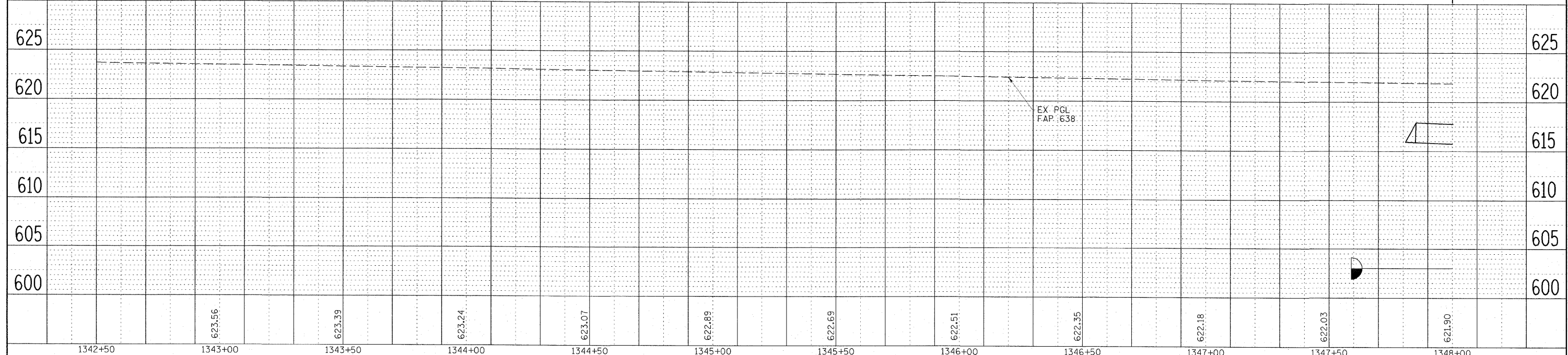


MATCH LINE STA 1348+00
SEE SHT. 9 FOR CONT.

LEGEND

--- CONSTRUCTION LIMITS

SECTION 33, T18N, R3E, 4TH PM



FILE NAME = D264A24-sh1-plnprf01.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP RTE 638 (IL 82) PLAN AND PROFILE STA 1342+50 TO STA 1348+00	F.A.P. RTE. 638	SECTION 129BR	COUNTY HENRY	TOTAL SHEETS 42	SHEET NO. 9
SCALE: (HORIZ) 1"=20' (VERT) 1"=5'	PLOT SCALE = 20.0000 "/ IN.	CHECKED - ELH	REVISED -			CONTRACT NO. 64A04				
PLOT DATE = 7/28/2009 2:55:38 PM	DATE - 07/17/09	REVISED -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
SCALE: 1"=20'-0"		SHEET NO. 1 OF 4 SHEETS				STA. 1342+50 TO STA. 1348+00				

PLAN	SURVEYED	BY	DATE
	DESIGNED		
	CHECKED		
	REVISED		
	NOTE BOOK NO.		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
	DESIGNED		
	CHECKED		
	REVISED		
	NOTE BOOK NO.		
	STRUCTURE NOTATION		



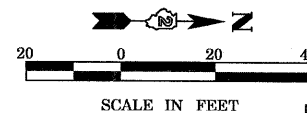
DATE	
BY	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	

DATE	
BY	
NO.	
NO.	
NO.	
NO.	
NO.	
NO.	

SECTION 28, T18N, R3E, 4TH PM

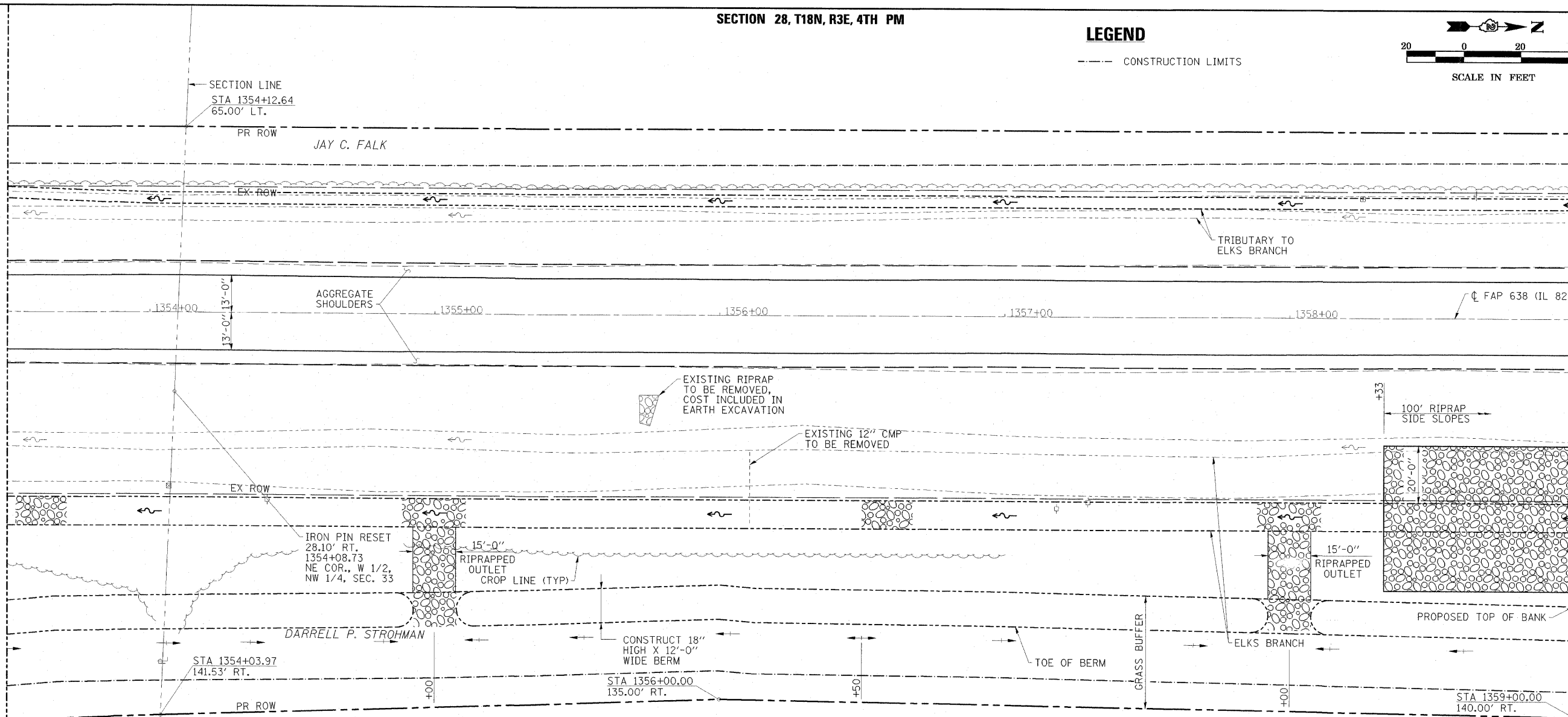
LEGEND

--- CONSTRUCTION LIMITS

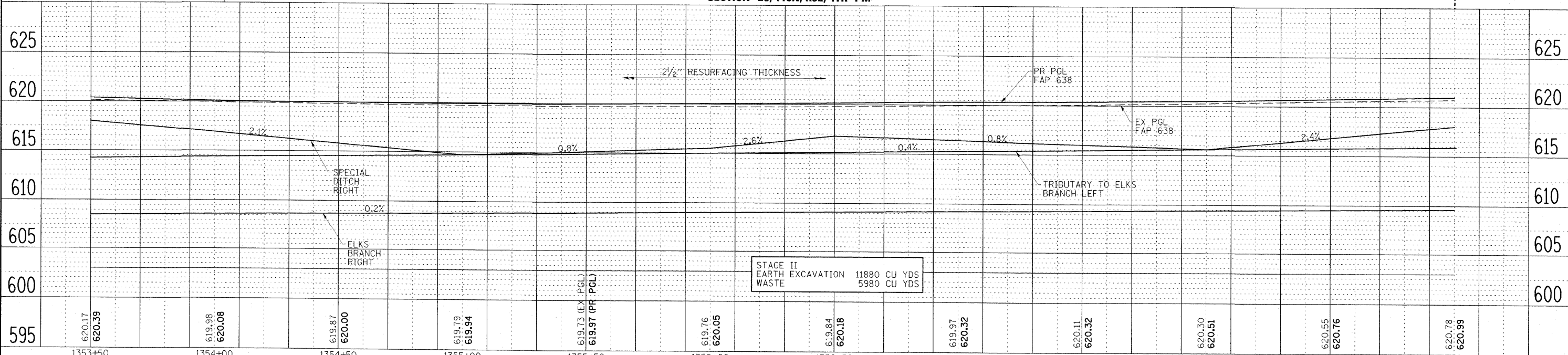


MATCH LINE STA 1353+50
SEE SHT. 9 FOR CONT.

MATCH LINE STA 1359+00
SEE SHT. 11 FOR CONT.



SECTION 28, T18N, R3E, 4TH PM



FILE NAME = 0264404-sht-plnprf101.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP RTE 638 (IL 82) PLAN AND PROFILE STA 1353+50 TO STA 1359+00	F.A.P. RTE. 638	SECTION 129BR	COUNTY HENRY	TOTAL SHEETS 42	SHEET NO. 11		
SCALE: (HORIZ) 1"=20' (VERT) 1"=5'	PLOT SCALE = 20,000' / IN.	DRAWN - ELH	REVISED -			SCALE: 1"=20'-0"	SHEET NO. 3 OF 4 SHEETS	STA. 1353+50	TO STA. 1359+00	CONTRACT NO. 64A04		
	PLOT DATE = 9/9/2009 9:41:44 AM	CHECKED - ELH	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						
		DATE - 09/08/09	REVISED -									



DATE	
BY	
PLANNED	
ALIGNED	
CHECKED	
NO.	

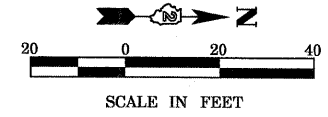
DATE	
BY	
PROFILING	
GRADES	
CHECKED	
NO.	

SECTION 28, T18N, R3E, 4TH PM

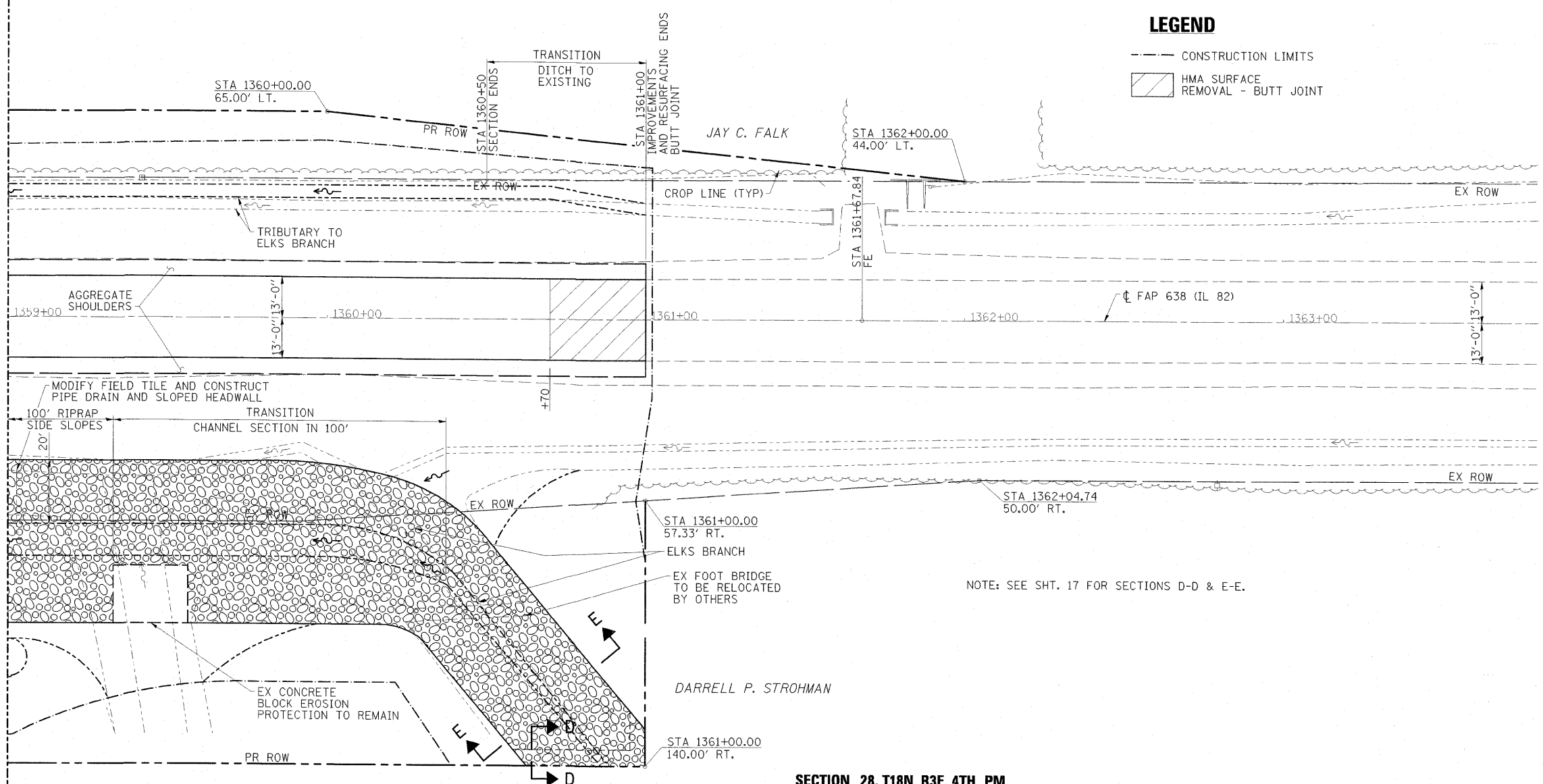
LEGEND

--- CONSTRUCTION LIMITS

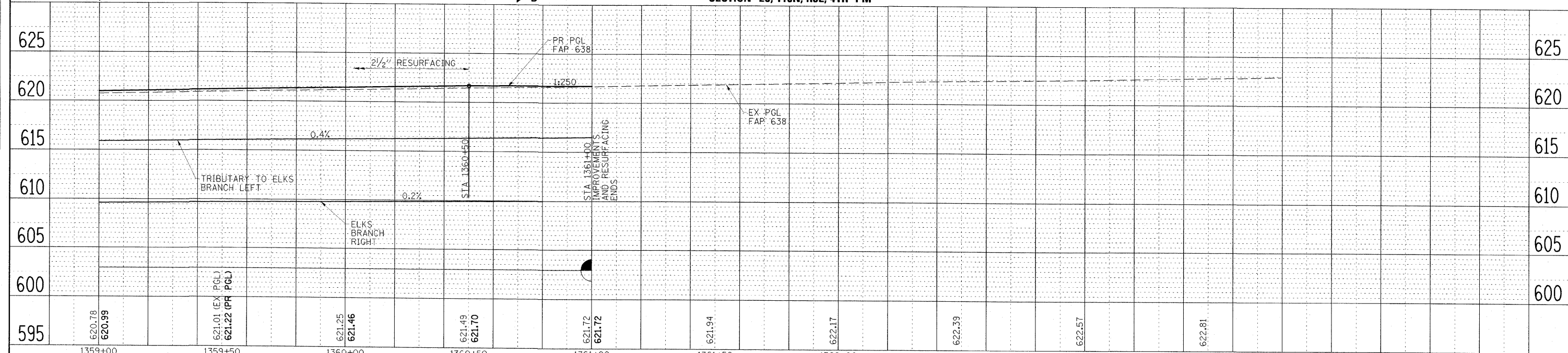
HMA SURFACE REMOVAL - BUTT JOINT



MATCH LINE STA 1359+00
SEE SHT. 10 FOR CONT.



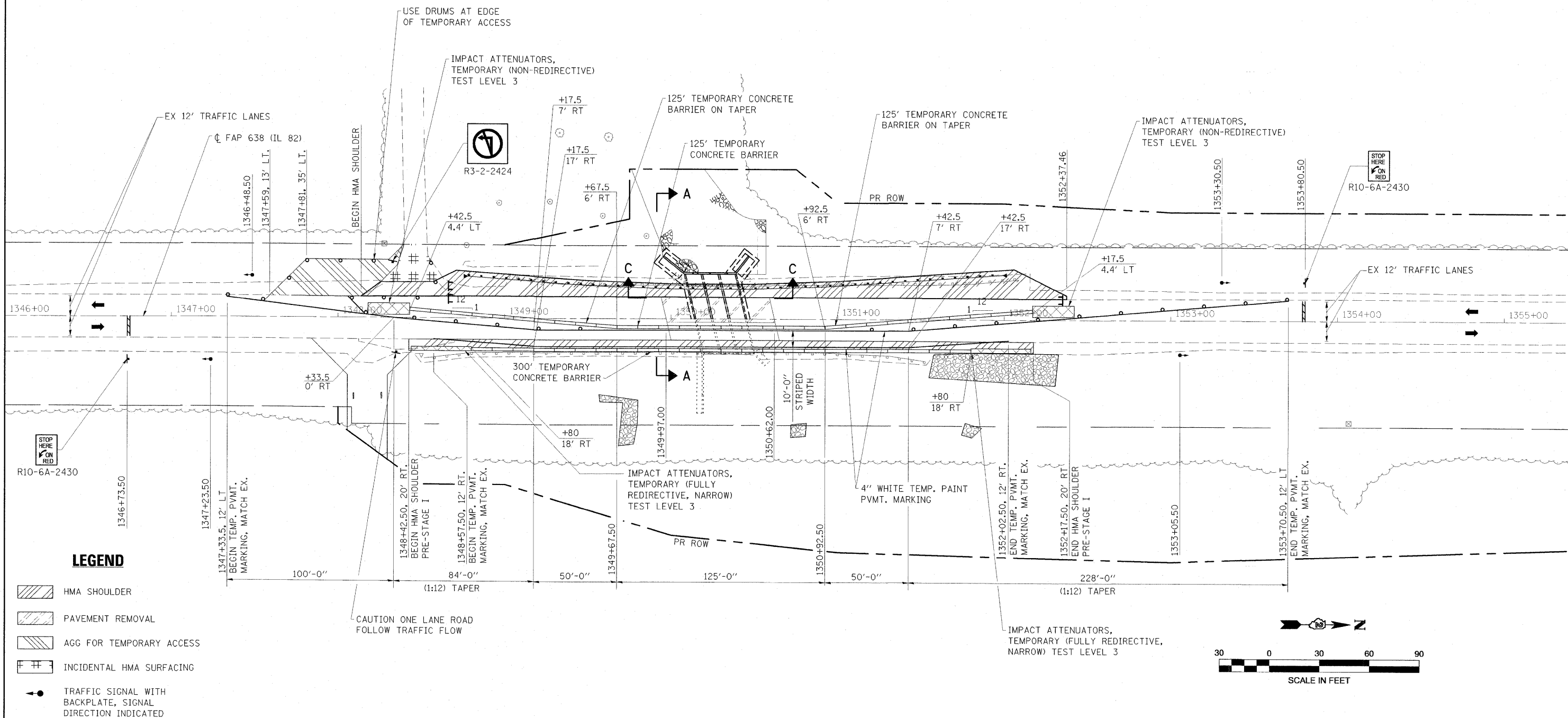
SECTION 28, T18N, R3E, 4TH PM



FILE NAME = 0264044-sh1-plan-f01.dgn	USER NAME = HAS	DESIGNED - JMS/ELH	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">FAP 638 (IL 82) PLAN AND PROFILE STA 1359+00 TO 1363+80</p>	F.A.P. RTE = 638	SECTION = 129BR	COUNTY = HENRY	TOTAL SHEETS = 42	SHEET NO. = 12		
SCALE: (HORIZ) 1"=20' (VERT) 1"=5'	PLOT SCALE = 20.0000' / IN.	DRAWN - HAS	REVISED -			SCALE: 1"=20'-0"	SHEET NO. 4 OF 4 SHEETS	STA. 1359+00	TO STA. 1363+80	CONTRACT NO. 64A04		
PLOT DATE = 9/9/2009	9:41:58 AM	CHECKED - ELH	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT					
DATE = 09/08/09		REVISOR -										

GENERAL NOTES

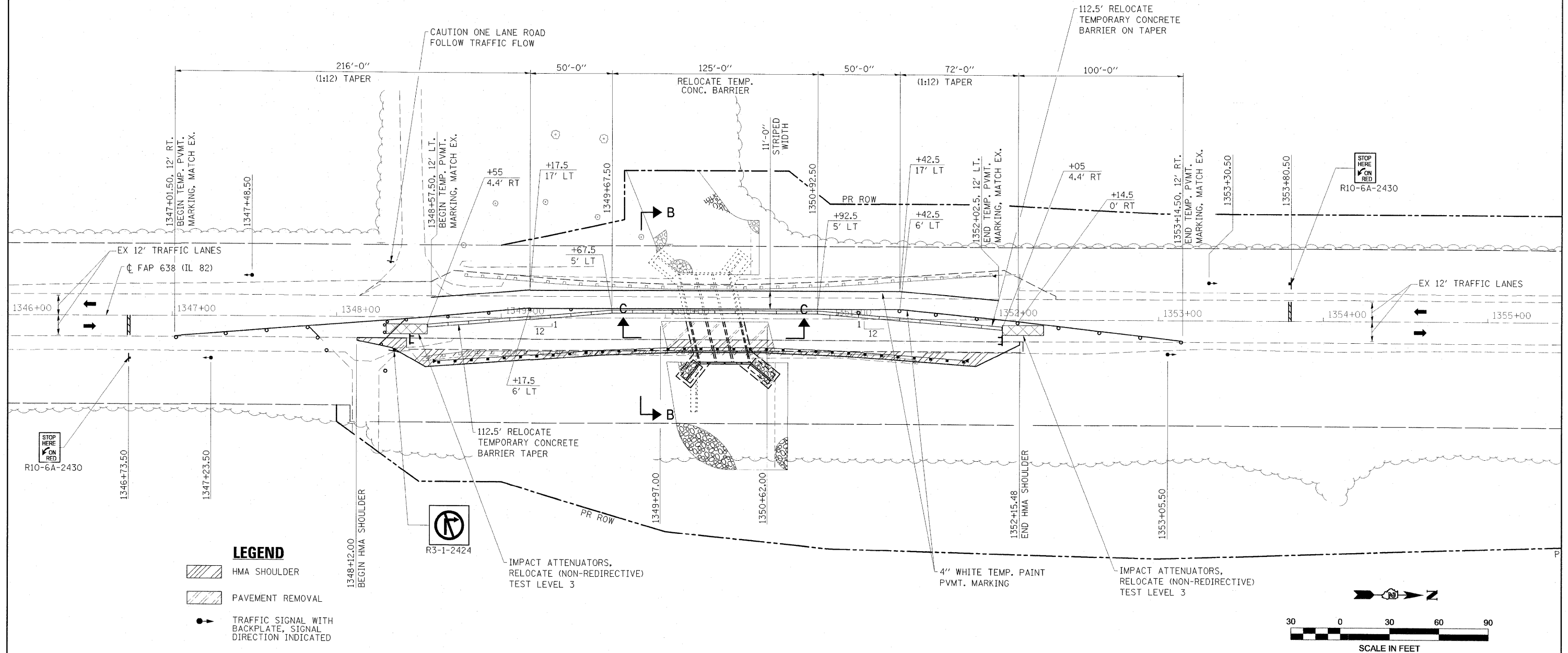
1. TRAFFIC CONTROL SHALL BE ERRECTED AS SHOWN AND ACCORDING TO "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321."
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
4. ADDITIONAL SIGNAGE AND BARRICADES SHOWN FOR SIDE-ROADS AND ENTRANCES SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
5. THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN SHOWN ON STANDARD 701321 SHALL BE 10'-6". THE SIGN SHALL FOLLOW DISTRICT STANDARD 39.2.



FILE NAME = D:\254681-shc-staging\01.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE I CONSTRUCTION	F.A.P. RTE. 638	SECTION 129BR	COUNTY HENRY	TOTAL SHEETS 42	SHEET NO. 13	
PLOT SCALE = 0.0833" / IN.	CHECKED - ELH	REVISOR -	REVISOR -			CONTRACT NO. 64A04					
PLOT DATE = 9/9/2009 9:47:43 AM	DATE - 09/08/09	REVISOR -	REVISOR -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
SCALE: 1"=30'-0"		SHEET NO. 1 OF 1 SHEETS				STA. 1346+00 TO STA. 1355+50					

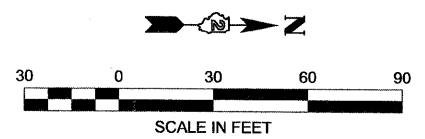
GENERAL NOTES

1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321."
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
4. ADDITIONAL SIGNAGE AND BARRICADES SHOWN FOR SIDE-ROADS AND ENTRANCES SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
5. THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN SHOWN ON STANDARD 701321 SHALL BE 10'-6". THE SIGN SHALL FOLLOW DISTRICT STANDARD 39.2.

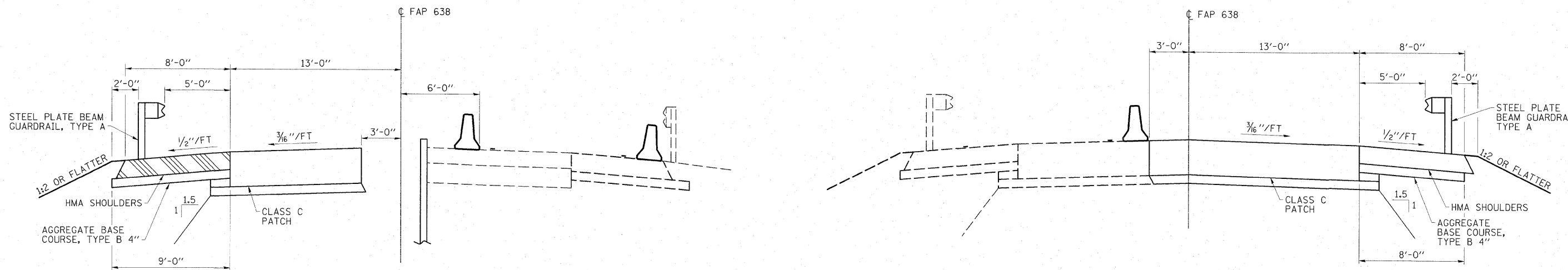
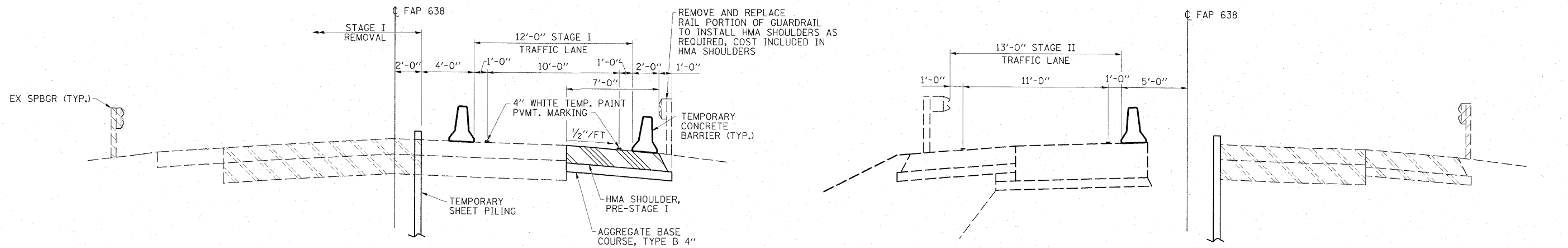


LEGEND

- HMA SHOULDER
- PAVEMENT REMOVAL
- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED

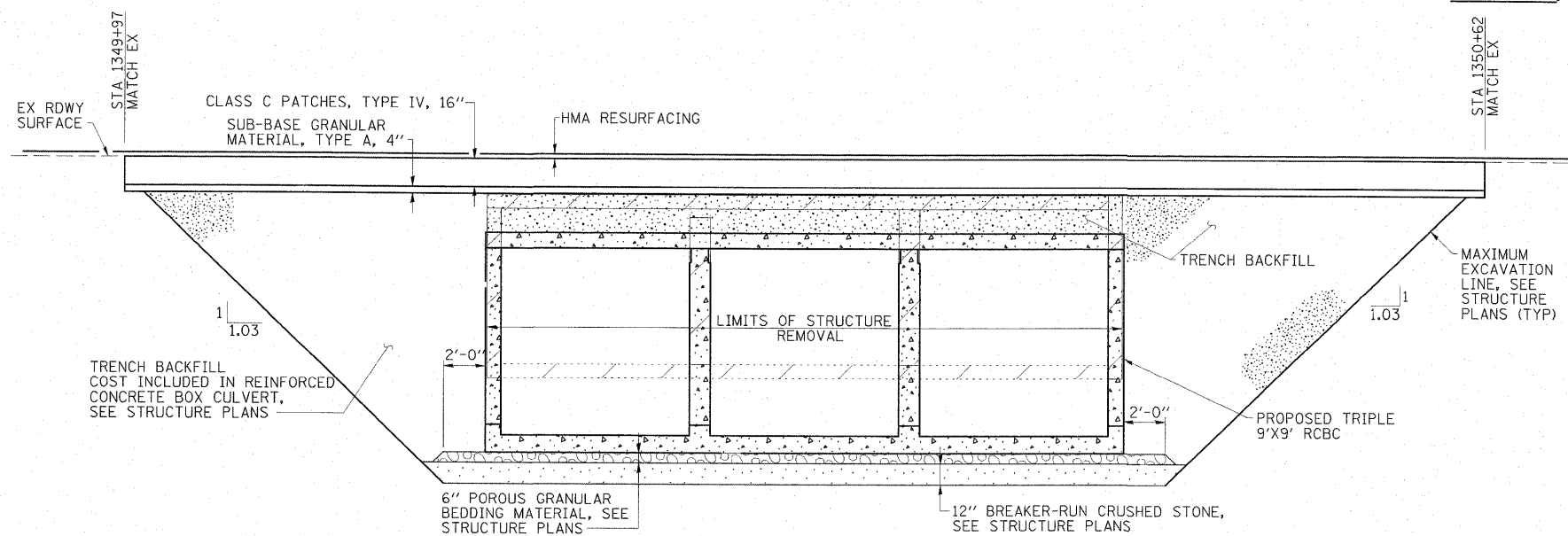


FILE NAME = D254A04-sh1-staging02.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE II CONSTRUCTION	F.A.P. RTE. 638	SECTION 129BR	COUNTY HENRY	TOTAL SHEETS 42	SHEET NO. 14			
PLOT SCALE = 1/8" = 30' / IN.	CHECKED - ELH	REVISED -	SCALE: 1"=30'-0"			SHEET NO. 1 OF 1 SHEETS	STA. 1342+25 TO STA. 1358+00	FED. ROAD DIST. NO.	ILLINOIS PROJECT	CONTRACT NO. 64A04			
PLOT DATE = 9/9/2009 9:51:19 AM	DATE - 09/08/09	REVISED -											



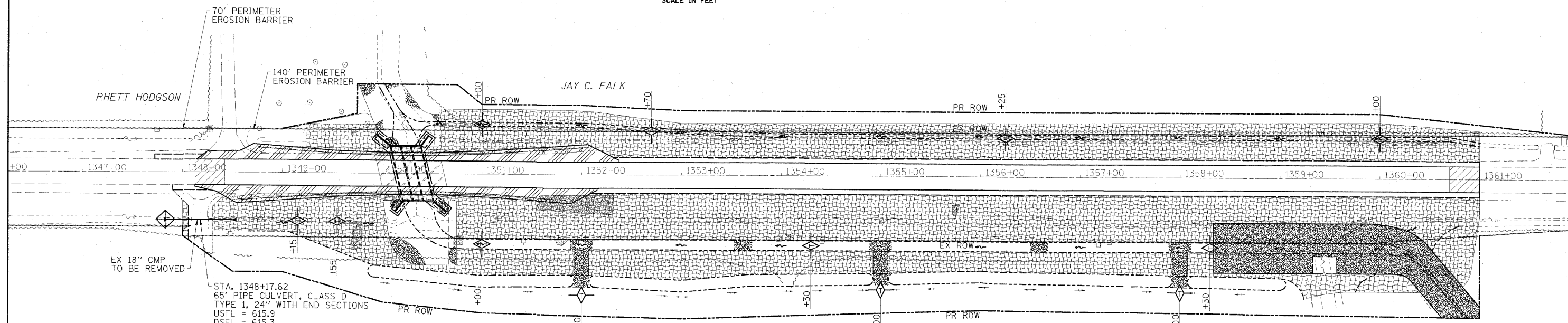
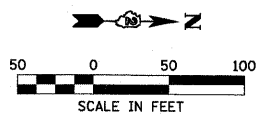
**SECTION A-A
(STAGE I)**

**SECTION B-B
(STAGE II)**



SECTION C-C

FILE NAME = D264A04-sh1-staging03.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION DETAILS		F.A.P. RTE. 638	SECTION 129BR	COUNTY HENRY	TOTAL SHEETS 42	SHEET NO. 15	
		DRAWN - JPC	REVISED -		SCALE: 1/4"=1'-0"	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 64A04			
		CHECKED - ELH	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
		DATE - 08/03/09	REVISED -									



STA. 1348+17.62
 65' PIPE CULVERT, CLASS D
 TYPE 1, 24" WITH END SECTIONS
 USFL = 615.9
 DSFL = 615.3

JEFFREY A. NELSON AND
 CHRISTINE NELSON

LEGEND

- PERIMETER EROSION BARRIER
- ◇ TEMPORARY DITCH CHECK
- ▨ EROSION CONTROL BLANKET
- ◇ INLET AND PIPE PROTECTION

USER NAME = HAS	DESIGNED - JMS	REVISED -
PLOT SCALE = 0.0833' / IN.	DRAWN - HAS	REVISED -
PLOT DATE = 9/9/2009 9:53:07 AM	CHECKED - ELH	REVISED -
	DATE - 09/08/09	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL AND DRAINAGE PLAN

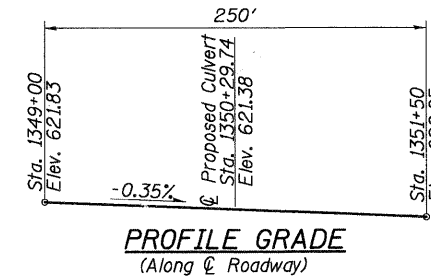
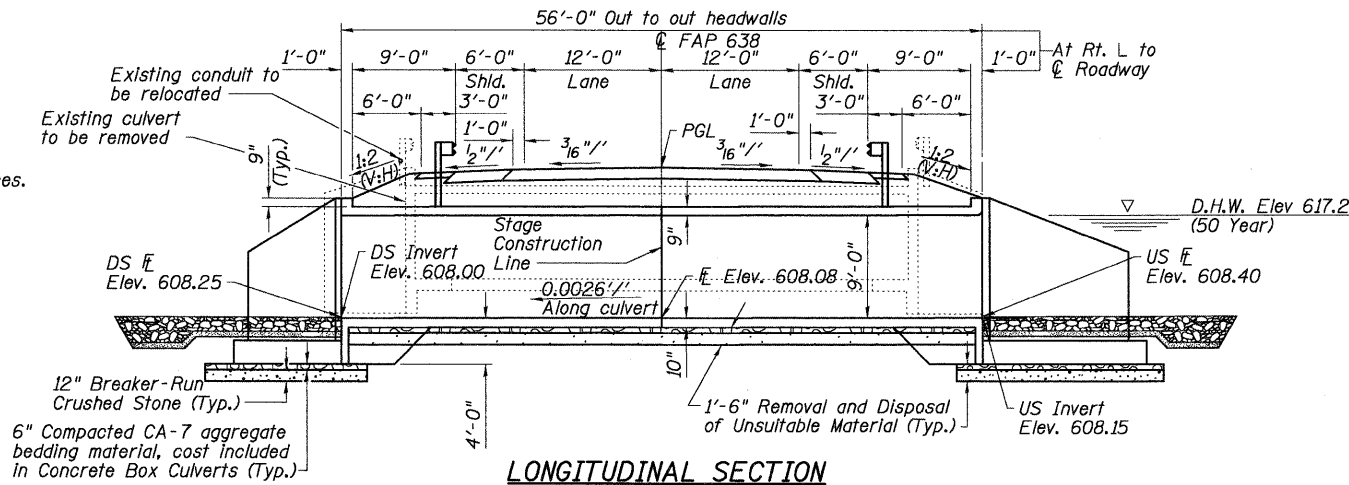
SCALE: 1"=50'-0" SHEET NO. 1 OF 1 SHEETS STA. 1346+75 TO STA. 1362+00

F.A.P. RTE. 638	SECTION 129BR	COUNTY HENRY	TOTAL SHEETS 42	SHEET NO. 16
CONTRACT NO. 64A04				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

BENCHMARK: Chiseled square on SE wingwall of box culvert over Elks Branch, SN 037-2003
Sta. 1350+19, 31.8' Rt.
Elev. 619.03

EXISTING STRUCTURE:
SN 037-2003 was originally built in 1931 as section 129. The structure is a cast-in-place concrete triple box culvert with 3 - 9' S x 7.5' R cells skewed 13° right forward. The culvert is 42'-9" long headwall to headwall and is 40'-0" wide between guardrail faces. The existing structure is to be removed and replaced. One lane of traffic will be maintained utilizing stage construction.

No salvage.

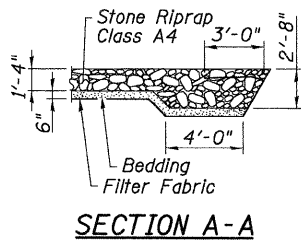


TOTAL BILL OF MATERIAL

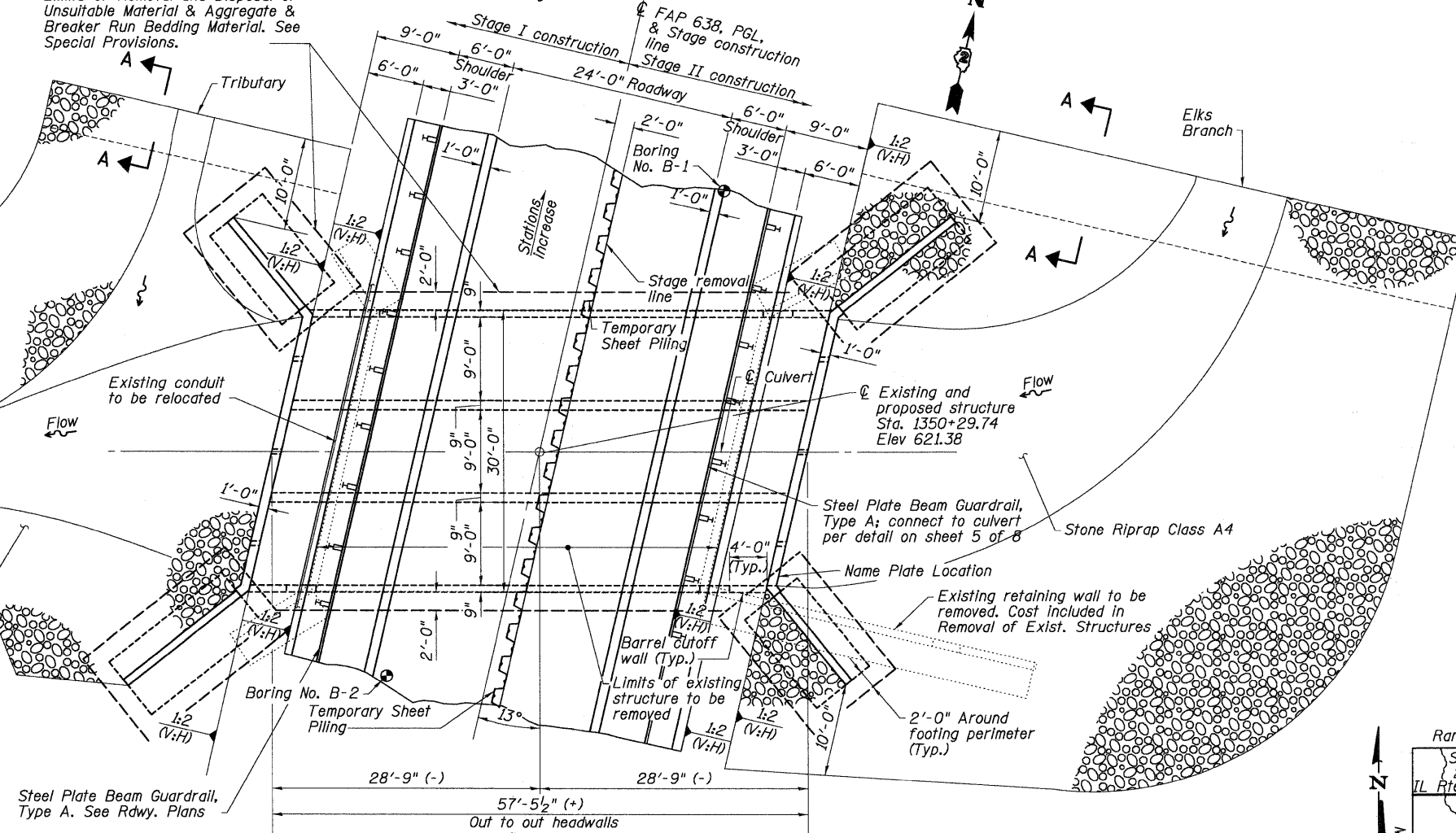
ITEM	UNIT	TOTAL
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	160
Removal of Existing Structures	Each	1
Reinforcement Bars	Pound	27860
Reinforcement Bars, Epoxy Coated	Pound	740
Temporary Sheet Piling	Sq. Ft.	1859
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	209.4
Bar Splicers	Each	114
Breaker-Run Crushed Stone	Ton	178

GENERAL NOTES

The substitution of Precast Concrete Box Culverts will not be allowed. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions. Reinforcement bars designated (E) shall be epoxy coated. All construction joints shall be bonded. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer. The boring logs for this structure indicate that groundwater levels may encroach on the construction limits of this structure. It shall be the responsibility of the Contractor to control groundwater and divert the stream flow during construction in order to keep the construction area free of water. The method of controlling the water shall be subject to approval of the Engineer and the cost shall be included in the contract unit price for Concrete Box Culverts. Controlled Low-Strength Material per Section 1019 shall be placed on the rock fill at the stage line. The concrete shall retain the rock fill until the second stage rock fill is placed. This work will be included in the pay item for Breaker-run Crushed Stone. See Roadway Plans for Trench Backfill details and quantities. The streambed of Elks Branch will be regraded from 1000' upstream to 100' downstream of the structure to transition to the proposed invert elevation of the culvert. The channel upstream of the structure will also be shifted to the east to reduce the need for guardrail. See roadway plans for details and quantities. Adequacy of the existing culvert to carry Stage I Traffic was confirmed with the 9/16/08 Coring Report.



Limits of Removal and Disposal of Unsuitable Material & Aggregate & Breaker Run Bedding Material. See Special Provisions.



STATION 1350+29.74
BUILT BY
STATE OF ILLINOIS
F.A.P. 638 SEC. 129BR
LOADING HS-20
STRUCTURE NO. 037-2027

NAME PLATE
See Std. 515001

WATERWAY INFORMATION PLAN

Flood		Frequency Year	Discharge (cfs)	Waterway Opening (Sq. Ft.)		Nat. H.W.E.	Head (Ft.)		Headwater El.	
Exist.	Prop.		Exist.	Prop.		Exist.	Prop.	Exist.	Prop.	
141	232	10	761	152	243	616.8	0.4	617.2	616.9	
152	243	50	1176	154	243	617.2	1.1	618.3	617.5	
154	243	100	1352	153	-	617.3	1.5	618.8	617.8	
153	-	74	1276	-	-	617.2	1.3	618.5	-	
-	243	500	1770	-	-	617.4	-	618.5	-	

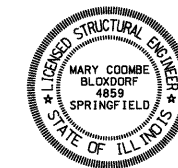
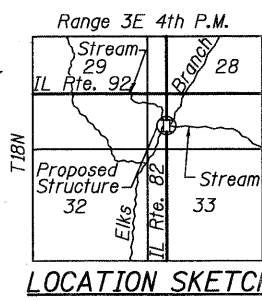
DESIGN SPECIFICATIONS
2002 AASHTO

LOADING HS20-44
Allow 50 psf for future wearing surface.

DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinf.)

SCOUR INFORMATION

Design Scour Elevation (Ft.)	Upstream	Downstream
	604.15	604.00



Exp. 11/30/10
Mary Coombe Bloxdorf 9/8/09

GENERAL PLAN
IL ROUTE 82 OVER ELKS BRANCH
STATION 1350+29.74
STRUCTURE NO 037-2027

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

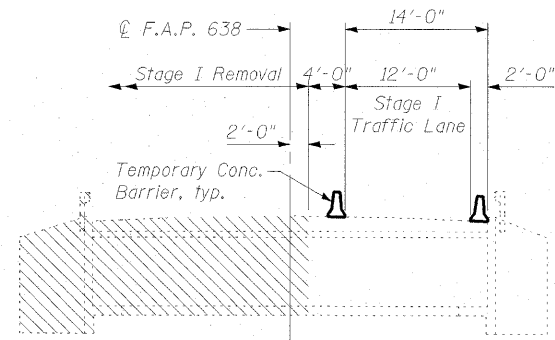
PROJECT NO. 08047
SCALE
DATE 09/08/09
DESIGN BY GJB
DRAWN BY CFC
CHECKED BY REG CME

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR	HENRY	42	18

8 SHEETS

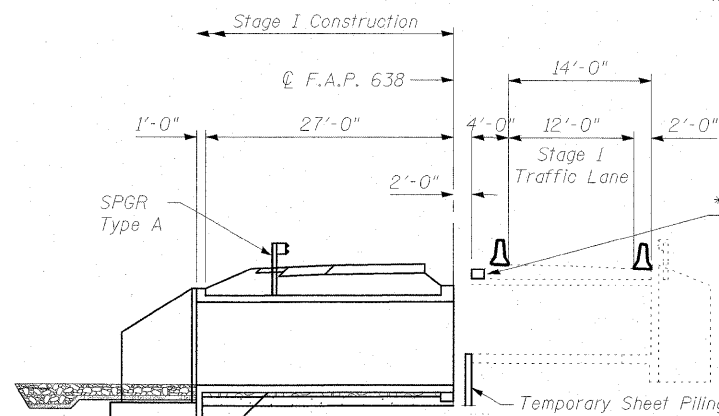
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

CONTRACT NO. 64A04



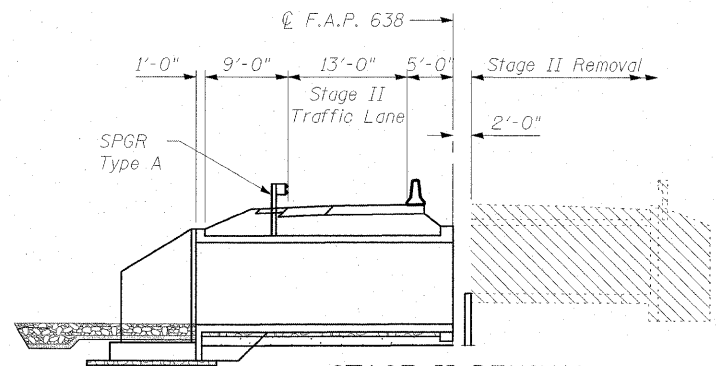
STAGE I REMOVAL
(Looking North) (Dim. at right L's)

Note:
Removal of existing metal handrail is included in Removal of Existing Structures.

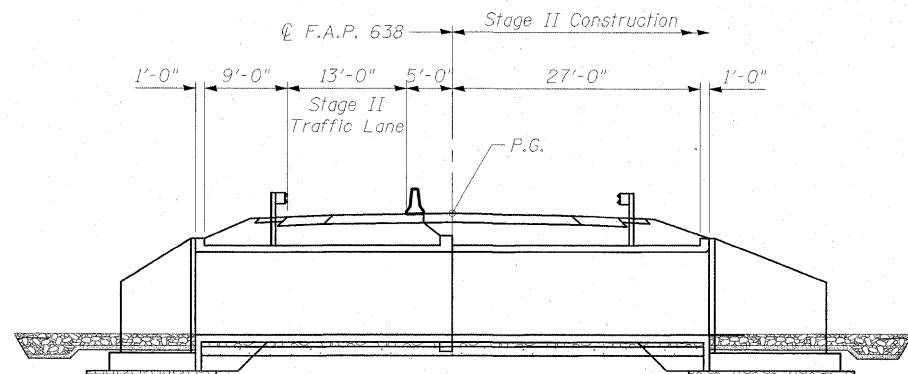


STAGE I CONSTRUCTION
(Looking North) (Dim. at right L's)

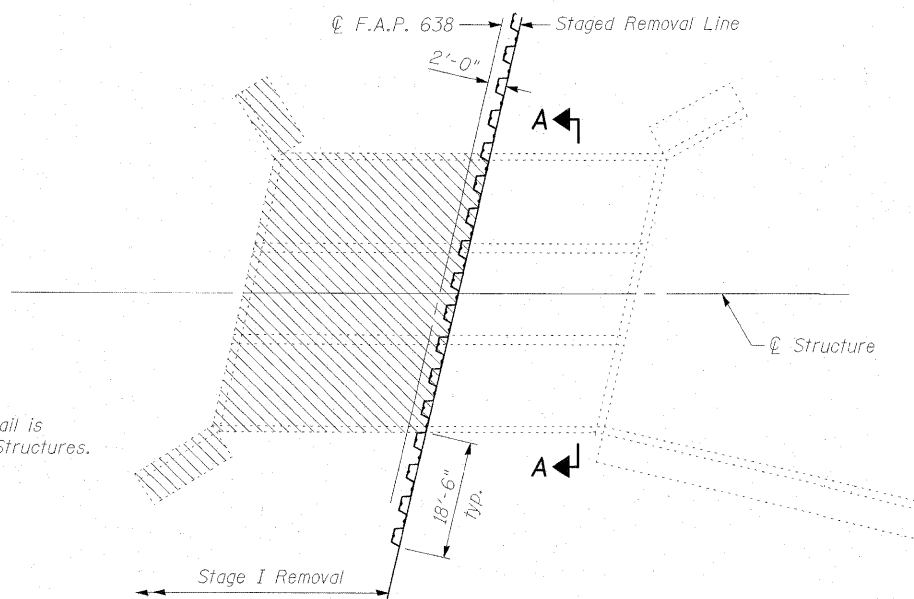
* Temporary blocking on top of exist. culvert to retain exist. roadbed Cost included with Concrete Box Culverts.



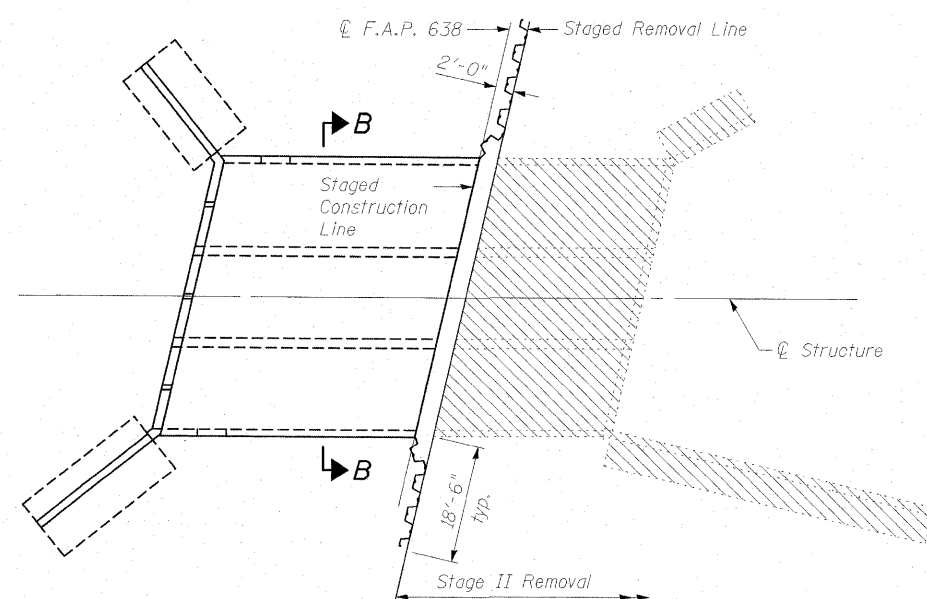
STAGE II REMOVAL
(Looking North) (Dim. at right L's)



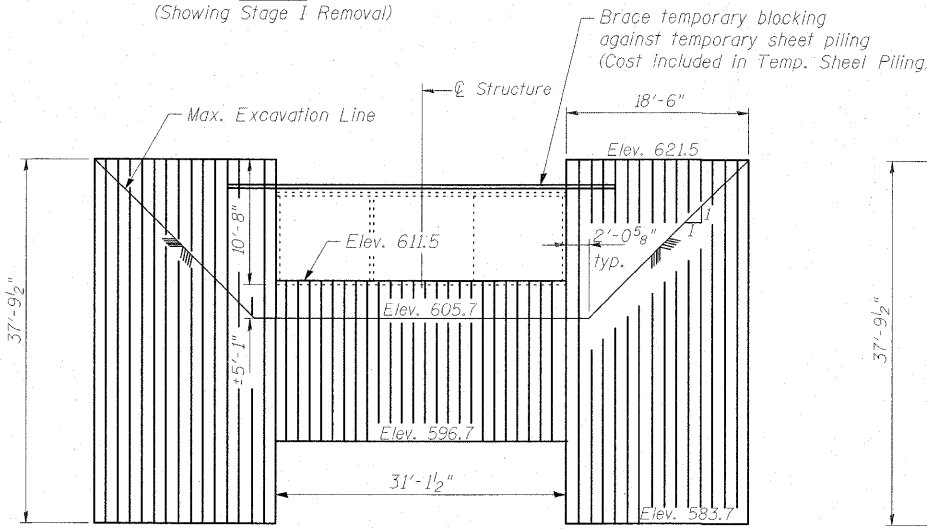
STAGE II CONSTRUCTION
(Looking North) (Dim. at right L's)



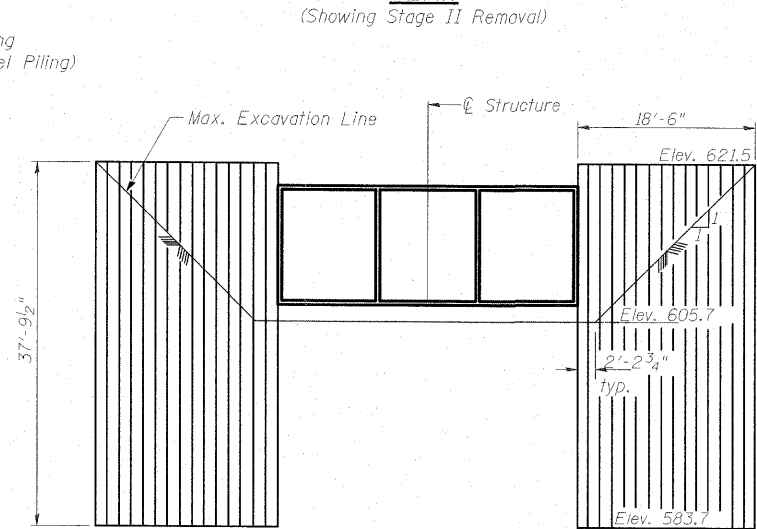
PLAN
(Showing Stage I Removal)



PLAN
(Showing Stage II Removal)



VIEW A-A
Showing Temporary Sheet Piling for Stage I Construction (Dim along skew)



VIEW B-B
Showing Temporary Sheet Piling for Stage II Construction (Dim along skew)

* The Contractor shall submit the design calculations and details for the temporary blocking for review and approval by the Engineer. Cost included in Temporary Sheet Piling.

CONSTRUCTION SEQUENCE

- ① After the temporary widening and traffic control barriers for Stage I traffic have been installed and traffic directed to the Northbound lane, install temporary sheet piling along stage removal line beyond exist. culvert limits.
- ② Excavate along exist. outside culvert sidewalls and sawcut exist. sidewalls and top and bottom slab at the Stage Removal Line prior to Stage I removal of the top slab.
- ③ Proceed with Stage I Removal
- ④ Install additional Sheet Piling along the stage removal line below the existing culvert invert elevation.
- ⑤ Proceed with Stage I Construction
- ⑥ Excavate along existing outside culvert sidewalls prior to Stage II removal of the top slab.
- ⑦ Proceed with Stage II Removal
- ⑧ Proceed with Stage II Construction

TEMPORARY SHEET PILING DATA
OUTSIDE CULVERT LIMITS

Top Elev. : 621.5
Bottom Elev. : 583.7
Embedment : 22'
Min. Section Modulus : 48.1 in³/ft

INSIDE CULVERT LIMITS

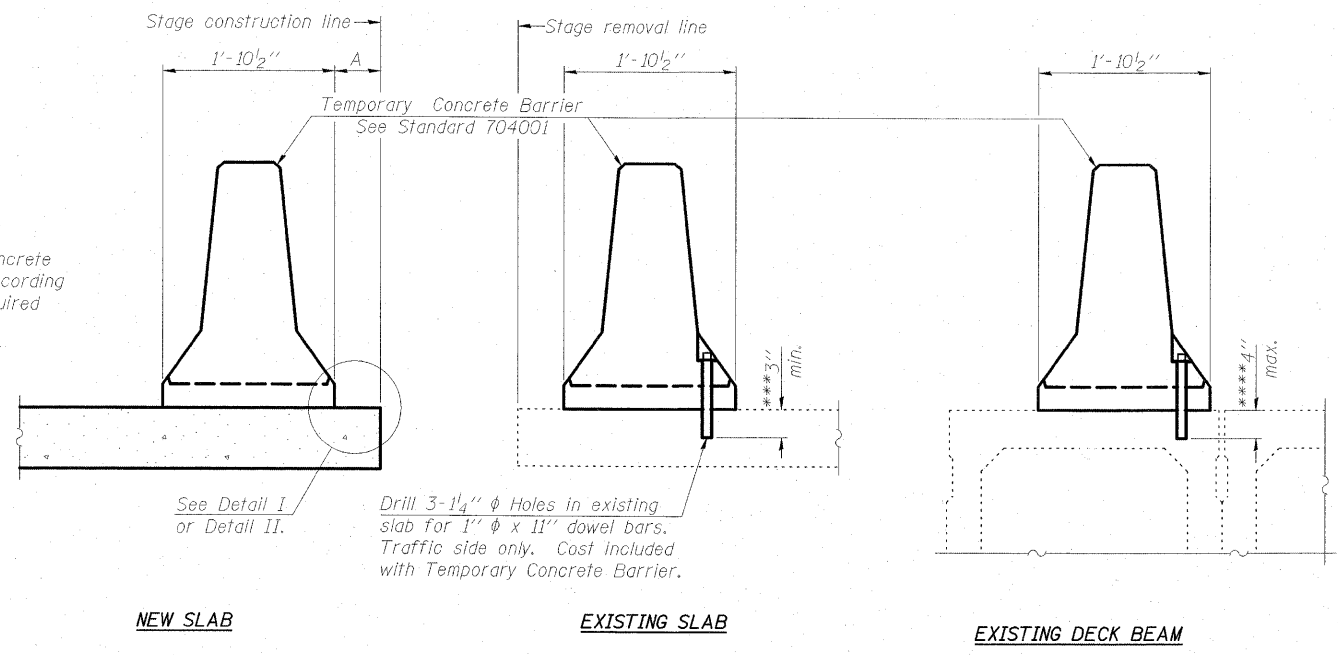
Top Elev. : 611.5
Bottom Elev. : 596.7
Embedment : 9'
Min. Section Modulus : 4 in³/ft

Notes:
Hatched areas indicate Removal of Existing Structures.
See Roadway Plans for quantity of Temporary Concrete Barrier.
If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans a design submittal including plan details and calculations will be required for review and approval by the Engineer.
For details of Temporary Concrete Barrier See Sheet 3 of 8.

STAGED CONSTRUCTION
IL ROUTE 82 OVER ELKS BRANCH
STATION 1350+29.74
STRUCTURE NO 037-2027

COOMBE-BLOXDORF P.C. Engineers/Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	PROJECT NO. 08047	SHEET NO. 2 8 SHEETS	F.A.P. RTE. 638	SECTION 129BR	COUNTY HENRY	TOTAL SHEETS 42	SHEET NO. 19
	DATE / /		CONTRACT NO. 64A04				
DESIGN BY / /	CHECKED BY CFC	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

PLOT DATE = 7/29/2009
 FILE NAME = Y:\1001\8929-03_64A04\0372027-64A04-Vr-StgPnet.dgn
 PLOT SCALE = 1/32" = 1' / IN.
 USER NAME = HAS



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

Drill 3-1/4" ϕ Holes in existing slab for 1" ϕ x 11" dowel bars. Traffic side only. Cost included with Temporary Concrete Barrier.

See Detail I or Detail II.

NOTES

Detail I - With Bar Splicer or Couplers: Connect one (1) 1"x7"x10" steel \bar{R} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

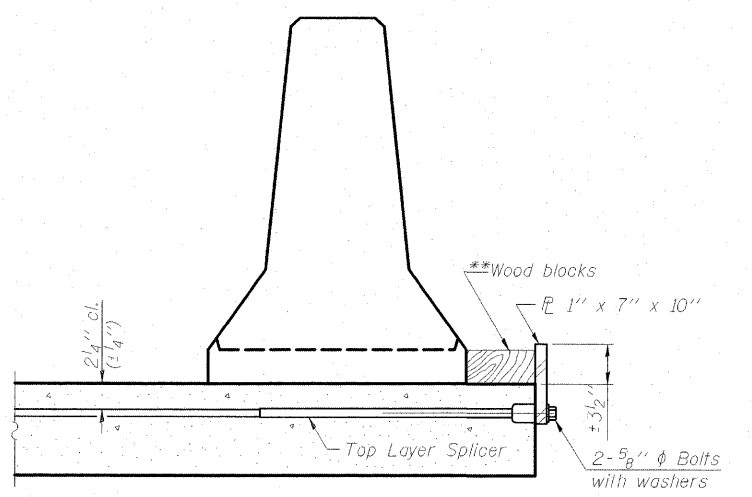
Detail II - With Extended Reinforcement Bars: Connect one (1) 1"x7"x10" steel \bar{R} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" 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.

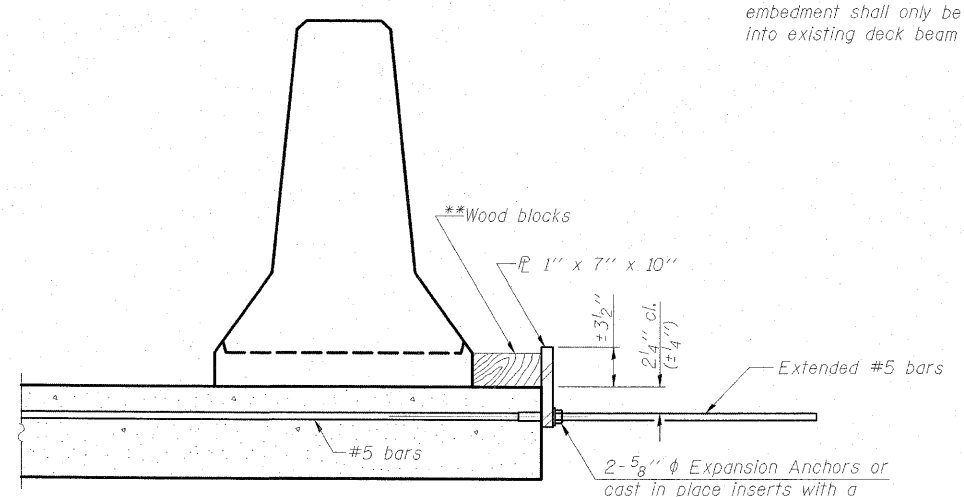
SECTIONS THRU SLAB OR DECK BEAM

*** 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.

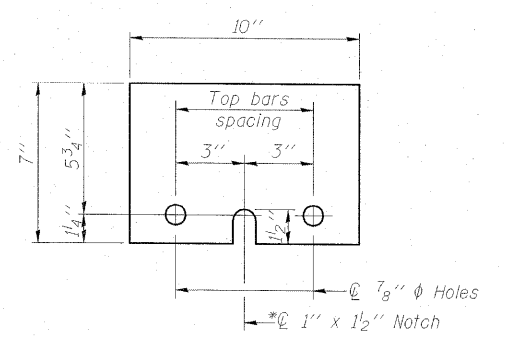
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{R} 1" x 7" x 10"

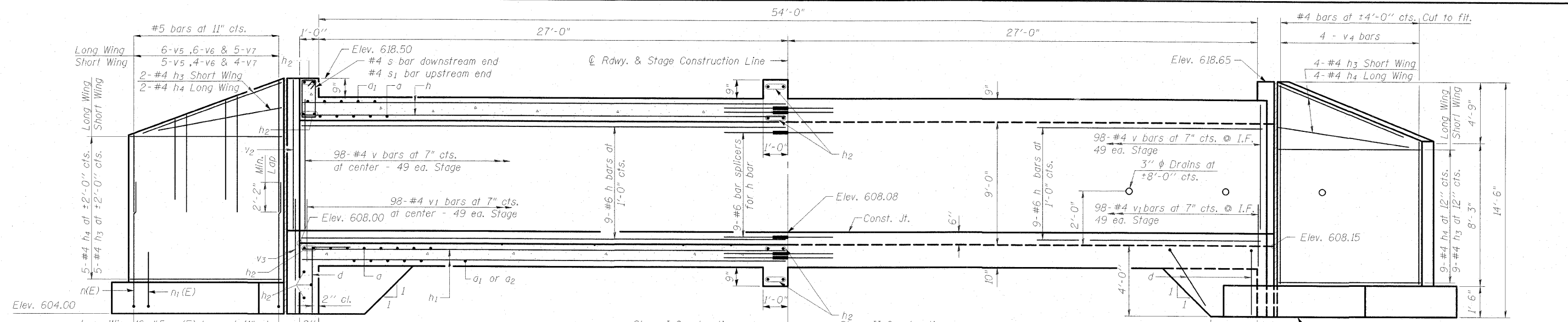
* Required only with Detail II

**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.

**TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
IL ROUTE 82 OVER ELKS BRANCH
STATION 1350+29.74
STRUCTURE NO 037-2027**

PLOT DATE = 7/29/2009
 FILE NAME = Y:\81001\829-03.64A04\CB\0372027-64A04\CB\4519.dgn
 PLOT SCALE = 0.10294 " / IN.
 USER NAME = HNS

COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	PROJECT NO. 08047 SCALE / / / DATE / / / DESIGN BY / / / DRAWN BY / / / CHECKED BY CFC	SHEET NO. 3 8 SHEETS	F.A.P. RTE. 638 SECTION 129BR COUNTY HENRY CONTRACT NO. 64A04	TOTAL SHEETS 42 SHEET NO. 20
	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			



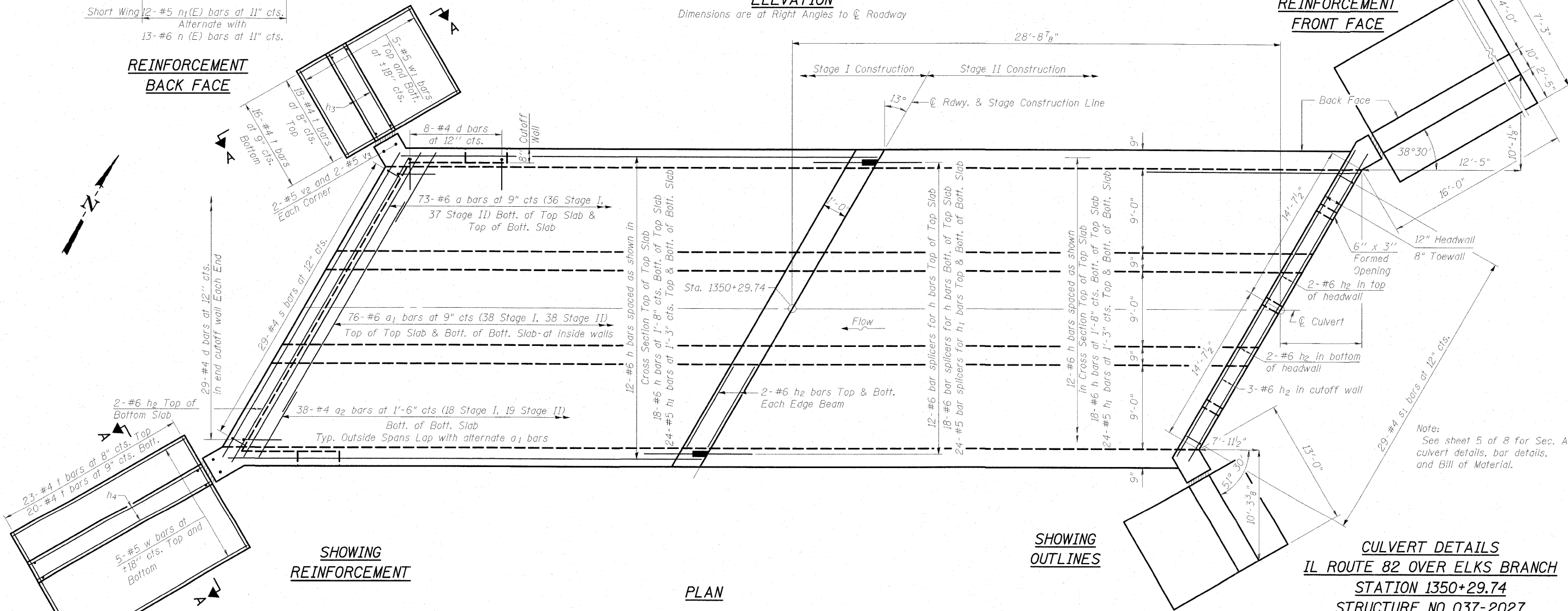
HALF LONG. SECTION
Showing bars in Interior Wall

ELEVATION
Dimensions are at Right Angles to ϕ Roadway

HALF ELEVATION
Showing bars in Outside Wall

REINFORCEMENT FRONT FACE

REINFORCEMENT BACK FACE



SHOWING REINFORCEMENT

SHOWING OUTLINES

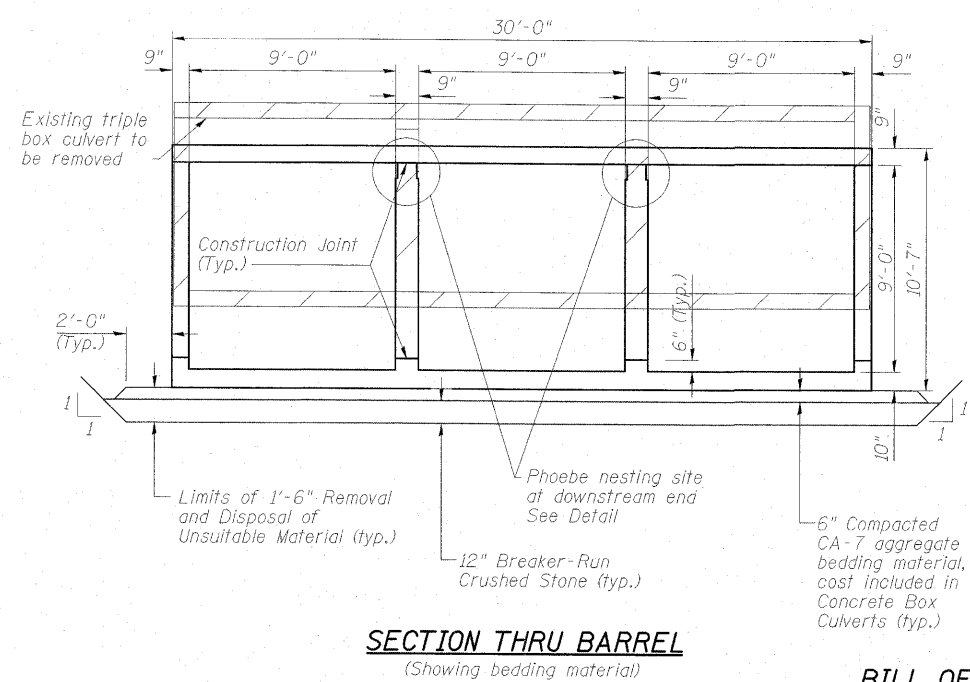
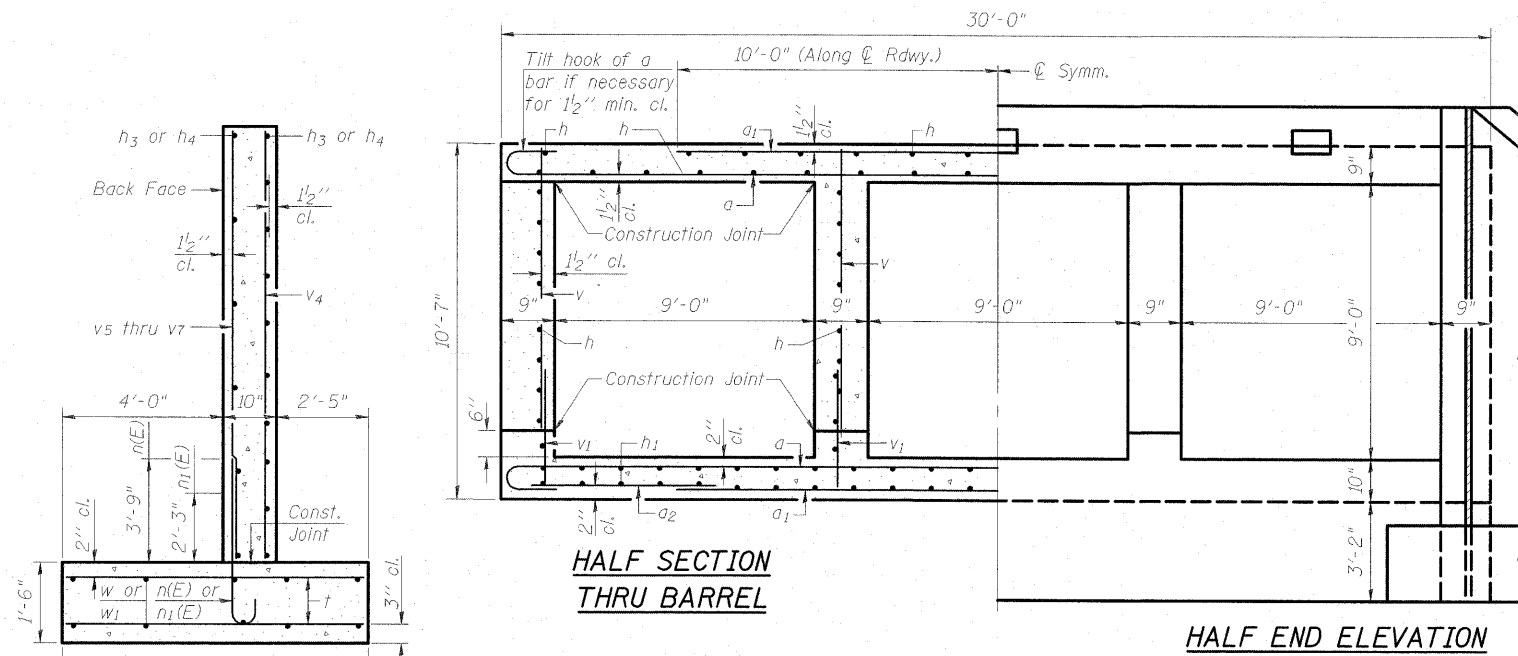
CULVERT DETAILS
IL ROUTE 82 OVER ELKS BRANCH
STATION 1350+29.74
STRUCTURE NO 037-2027

Max. soil pressure under Footing = 2848 psf

Note:
See sheet 5 of 8 for Sec. A-A,
culvert details, bar details,
and Bill of Material.

PLOT DATE = 7/29/2008
 FILE NAME = Y:\BDD\1829-03_64A04\BDD\SP_S\037-2027\0372027-64A04-04-CUDH.dgn
 PLOT SCALE = 0.10294" = 1' / IN.
 USER NAME = HNS

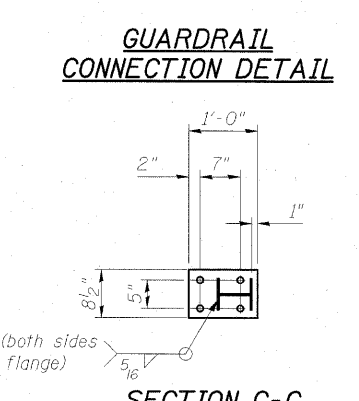
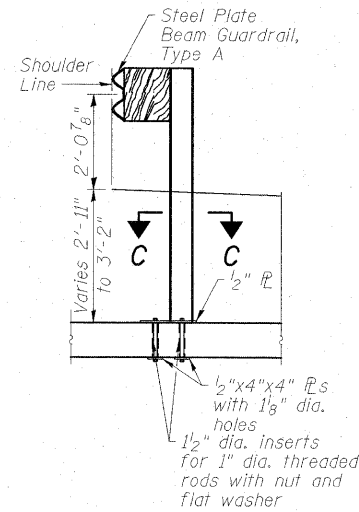
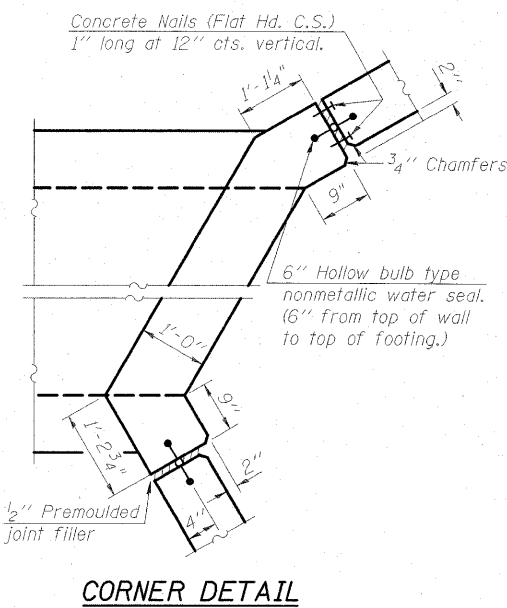
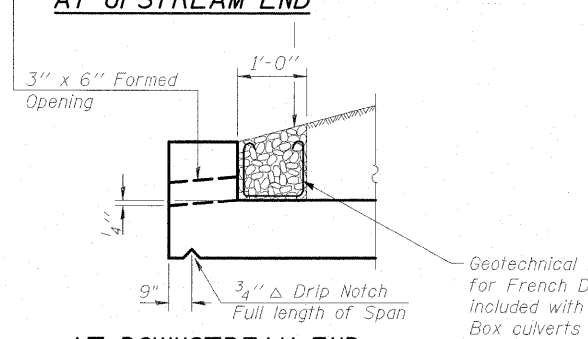
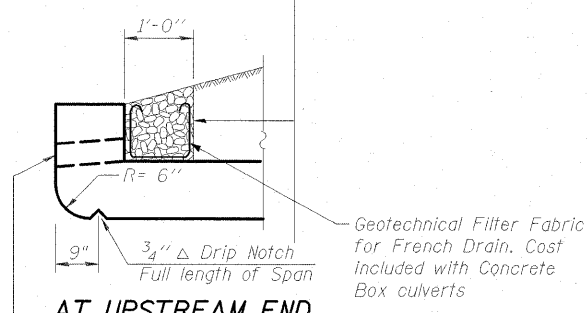
COOMBE-BLOXDORF P.C. Engineers/Land Surveyors Springfield, Illinois Design Firm License No. 184-002708		PROJECT NO. 08047	SHEET NO. 4	F.A.P. RTE. 638	SECTION 129BR	COUNTY HENRY	TOTAL SHEETS 42	SHEET NO. 21
		SCALE / /	8 SHEETS	CONTRACT NO. 64A04		ILLINOIS FED. AID PROJECT		



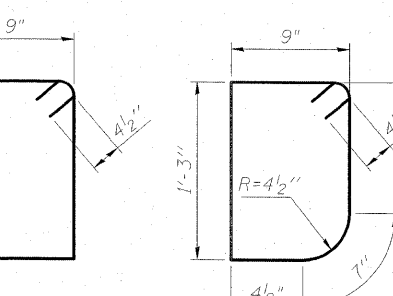
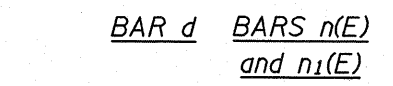
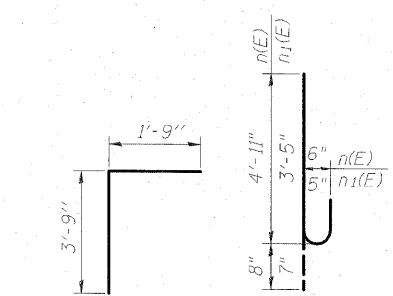
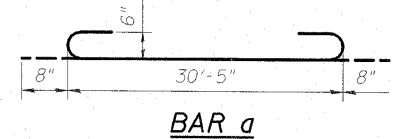
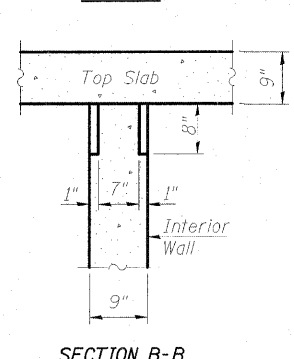
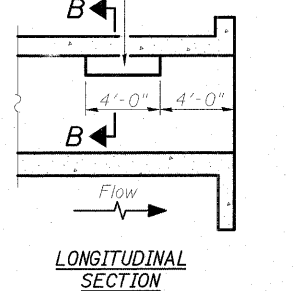
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	146	#6	31'-9"	U
a ₁	152	#6	20'-0"	U
a ₂	76	#4	6'-8"	U
d	90	#4	5'-6"	L
h	132	#6	28'-5"	U
h ₁	96	#5	28'-5"	U
h ₂	26	#6	30'-0"	U
h ₃	40	#4	11'-10"	U
h ₄	40	#4	14'-10"	U
n(E)	60	#6	5'-7"	U
n ₁ (E)	56	#5	4'-0"	U
s	29	#4	4'-9"	U
s ₁	29	#4	4'-8"	U
t	154	#4	6'-11"	U
v	392	#4	9'-1"	U
v ₁	392	#4	2'-4"	U
v ₂	8	#5	9'-8"	U
v ₃	8	#5	5'-10"	U
v ₄	16	#4	12'-2"	U
v ₅	22	#5	8'-2"	U
v ₆	20	#5	9'-8"	U
v ₇	18	#5	11'-1"	U
w	20	#5	14'-10"	U
w ₁	20	#5	11'-10"	U
Concrete Box Culverts			Cu. Yd.	209.4
Reinforcement Bars, Epoxy Coated			Pound	740
Reinforcement Bars			Pound	27860
Bar Splicers			Each	114

Coarse aggregate full length of both headwalls. To be placed by Grading Contractor. Cost included with Concrete Box Culverts.



Notch formed by rough finished board attached to and removed with form work, each interior wall. (Do not chamfer).



Note:
The cost of inserts, plates and threaded rods including washers and nuts is included in the cost of Concrete Box Culverts. The location of each connection will be determined in the field.

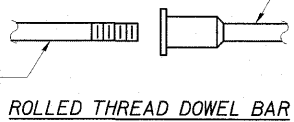
COOMBE-BLOXDORF P.C. Engineers/Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	PROJECT NO. 08047 SCALE: / / DATE: / / DESIGN BY: / / DRAWN BY: / / CHECKED BY: CFC	SHEET NO. 5 8 SHEETS	F.A.P. RTE. 638 SECTION 129BR COUNTY HENRY CONTRACT NO. 64A04	TOTAL SHEETS 42 SHEET NO. 22
	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

PLOT DATE = 7/29/2009
 FILE NAME = Y:\B101\B829-03-64A04\B829-03-64A04.dwg
 PLOT SCALE = 0.10294" = 1" / IN.
 USER NAME = HAS

CULVERT DETAILS
IL ROUTE 82 OVER ELKS BRANCH
STATION 1350+29.74
STRUCTURE NO 037-2027

The diameter of this part is equal or larger than the diameter of bar spliced.

The diameter of this part is the same as the diameter of the bar spliced.

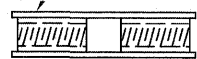


ROLLED THREAD DOWEL BAR



**** ONE PIECE**

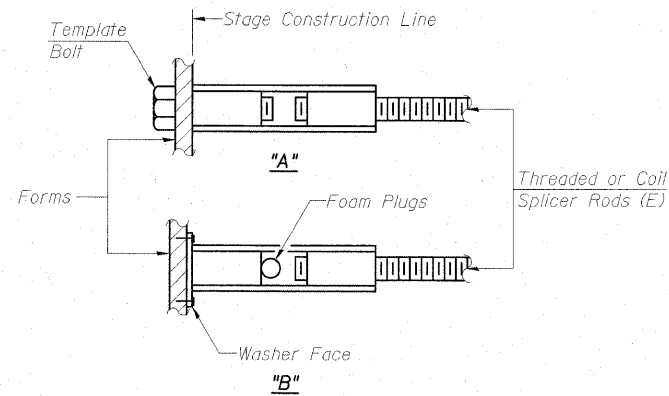
Wire Connector



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

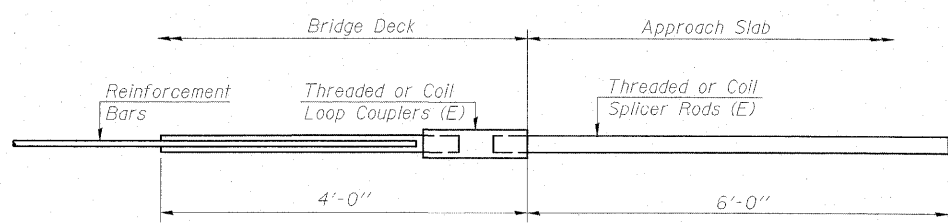
"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
 All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
 Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

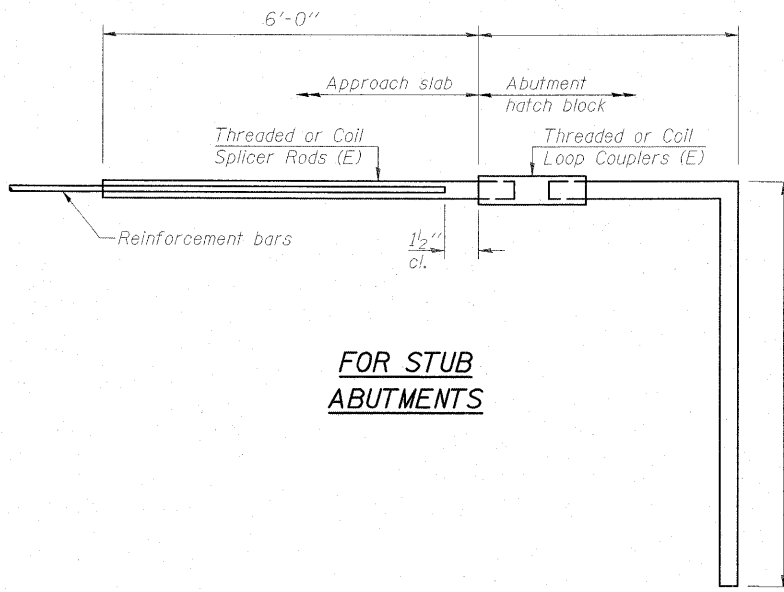
- ① Minimum Capacity = $1.25 \times f_y \times A_t$
 (Tension in kips)
 - ② Minimum *Pull-out Strength = $0.66 \times f_y \times A_t$
 (Tension in kips)
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-2"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



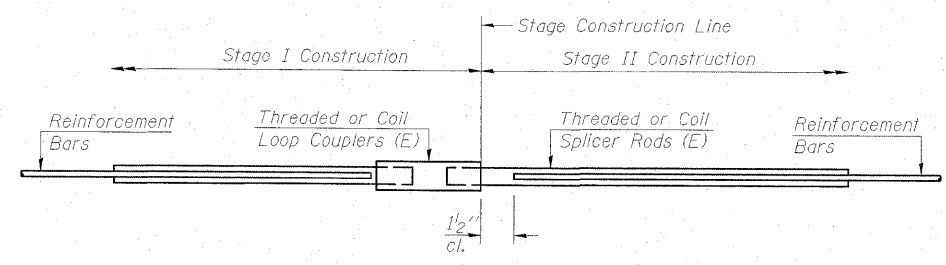
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



FOR STUB ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



STANDARD

Bar Size	No. Assemblies Required	Location
#5	48	Bottom Slab
#6	36	Walls
#6	30	Top Slab

**BAR SPLICER ASSEMBLY DETAILS
 IL ROUTE 82 OVER ELKS BRANCH
 STATION 1350+29.74
 STRUCTURE NO 037-2027**

PLOT DATE = 7/29/2009
 FILE NAME = Y:\01\01\8829-03\64A04\BSP\037-2027\64A04-uv-BarPlg.dgn
 PLOT SCALE = 0.110294" = 1" / IN.
 USER NAME = HAS

COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	PROJECT NO. 08047 SCALE DATE / / DESIGN BY DRAWN BY CFC CHECKED BY	SHEET NO. 6 8 SHEETS	F.A.P. RTE. 638 SECTION 129BR COUNTY HENRY CONTRACT NO. 64A04	TOTAL SHEETS 42 SHEET NO. 23
	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			



Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 2

ROUTE IL 82 DESCRIPTION P92-052-04 IL 82 over Elks Branch, .4 m. south of N2550 LOGGED BY C. Jenkins
SECTION _____ LOCATION Phenix Twp. - SW, SEC. 28, TWP. 18N, RNG. 3E
COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53

STRUCT. NO. Station	BORING NO. Station Offset Ground Surface Elev.	DEPTH (ft)	BLOW COUNT (#6")	UNIFIED CLASSIFICATION (tsf)	MOISTURE CONTENT (%)	Surface Water Elev. Stream Bed Elev.	Groundwater Elev.: First Encounter Upon Completion After Hrs.	DEPTH (ft)	BLOW COUNT (#6")	UNIFIED CLASSIFICATION (tsf)	MOISTURE CONTENT (%)
1 1176+84	B-2 1177+10 10.00R RLCL 621.5										
		618.5	2	2.0 P	20			1	2		
		617.0	4	2.4 S	17			5	8		
		614.5	3	1.5 P	31			5	5		
		611.5	3	0.7 B	28			4	3	1.2 S	27
		609.5	2					7	5	1.7 S	28
		607.0	1					6	4	1.3 S	27
		604.5	10					6	4	2.0 S	38
		602.0	6					4	3	0.2 B	28

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
IDOT

SOIL BORING LOG

Page 2 of 2

ROUTE IL 82 DESCRIPTION P92-052-04 IL 82 over Elks Branch, .4 m. south of N2550 LOGGED BY C. Jenkins
SECTION _____ LOCATION Phenix Twp. - SW, SEC. 28, TWP. 18N, RNG. 3E
COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53

STRUCT. NO. Station	BORING NO. Station Offset Ground Surface Elev.	DEPTH (ft)	BLOW COUNT (#6")	UNIFIED CLASSIFICATION (tsf)	MOISTURE CONTENT (%)	Surface Water Elev. Stream Bed Elev.	Groundwater Elev.: First Encounter Upon Completion After Hrs.	DEPTH (ft)	BLOW COUNT (#6")	UNIFIED CLASSIFICATION (tsf)	MOISTURE CONTENT (%)
1 1176+84	B-2 1177+10 10.00R RLCL 621.5										
		579.5	1	0.6 B	22			2	1		
		577.0	4	0.5 B	21			6	2		
		574.5	3	1.8				6	3		

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)

Note:
Stations shown on borings are from previous plans.
See Sheet 1 of 8 for location of borings.

BORING LOGS
IL ROUTE 82 OVER ELKS BRANCH
STATION 1350+29.74
STRUCTURE NO 037-2027

COOMBE-BLOXDORF P.C. Engineers/Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	PROJECT NO. 08047	SHEET NO. 7 8 SHEETS	F.A.P. RTE. 638	SECTION 129BR	COUNTY HENRY	TOTAL SHEETS 42	SHEET NO. 24
	CHECKED BY CFC		CONTRACT NO. 64A04				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT					

PLOT DATE = 7/29/2008
 FILE NAME = Y:\DOT\8823-03_64A04\8823-03_64A04-01-SBL.dgn
 PLOT SCALE = 0.10254" / IN.
 USER NAME = HNS



SOIL BORING LOG

Page 1 of 2

ROUTE IL 82 DESCRIPTION P92-052-04 IL 82 over Elks Branch, 4 m. south of N2550, 2 m. N. of Geneseo LOGGED BY C. Jenkins
 SECTION LOCATION Phenix Twp. - SW. SEC. 28, TWP. 18N, RNG. 3E
 COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53

STRUCT. NO. Station	DEPTH TWS	DESCRIPT	MOIST S Qu T	Surface Water Elev. Stream Bed Elev.	DEPTH TWS	DESCRIPT	MOIST S Qu T
1 1176+84				90.0 ft 89.0 ft			
B-1 1176+55				81.9 ft Dry			
13.00R LL CL							
620.7							
618.2	2	MEDIUM gray SILTY CLAY LOAM	1.25 P	599.2	9	MEDIUM tan fine SAND	
616.7	3	MEDIUM gray SILTY CLAY LOAM	0.8 B	596.2	13	MEDIUM brown dirty fine SAND with clay lens	
614.2	3	STIFF dark brown SILTY LOAM	1.25 P	594.2	3	STIFF gray SILTY LOAM	
612.7	3	MEDIUM dark brown SILTY LOAM	0.6 B	591.7	5	STIFF gray CLAY TILL	
609.2	2	MEDIUM gray SILTY LOAM	0.5 P	589.2	7	STIFF gray CLAY TILL	
606.2	3	SOFT gray SILTY LOAM with ORGANICS	0.5 B	586.7	5	STIFF gray CLAY TILL	
604.2	6	MEDIUM tan dirty fine SAND		584.2	7	STIFF gray CLAY TILL	
601.7	2	MEDIUM tan fine SAND		581.7	9	STIFF gray CLAY TILL	

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 T208)
 BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 2 of 2

ROUTE IL 82 DESCRIPTION P92-052-04 IL 82 over Elks Branch, 4 m. south of N2550, 2 m. N. of Geneseo LOGGED BY C. Jenkins
 SECTION LOCATION Phenix Twp. - SW. SEC. 28, TWP. 18N, RNG. 3E
 COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53

STRUCT. NO. Station	DEPTH TWS	DESCRIPT	MOIST S Qu T	Surface Water Elev. Stream Bed Elev.	DEPTH TWS	DESCRIPT	MOIST S Qu T
1 1176+84				90.0 ft 89.0 ft			
B-1 1176+55				81.9 ft Dry			
13.00R LL CL							
620.7							
579.2	3	SOFT gray SILT	0.4 B		29		
576.7	3	SOFT gray SILT	0.2 B		29		
574.2	3	STIFF gray CLAY TILL	2.5 B		17		
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 T208)
 BBS, from 137 (Rev. 8-99)

Note:
 Stations shown on borings are from previous plans.
 See Sheet 1 of 8 for location of borings.

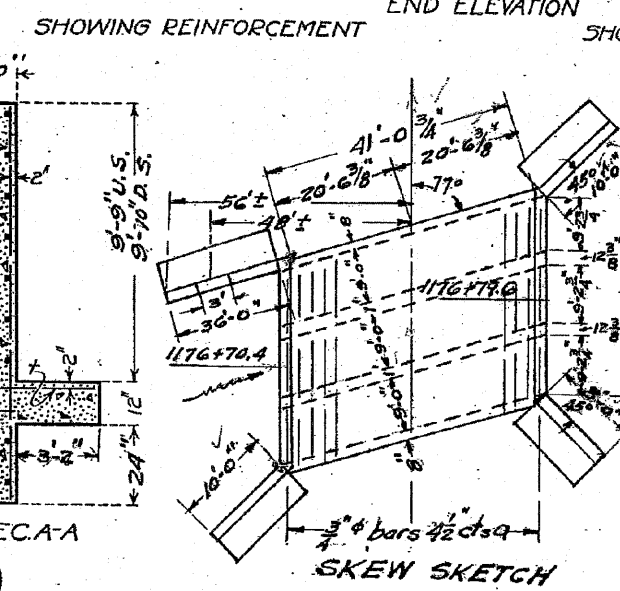
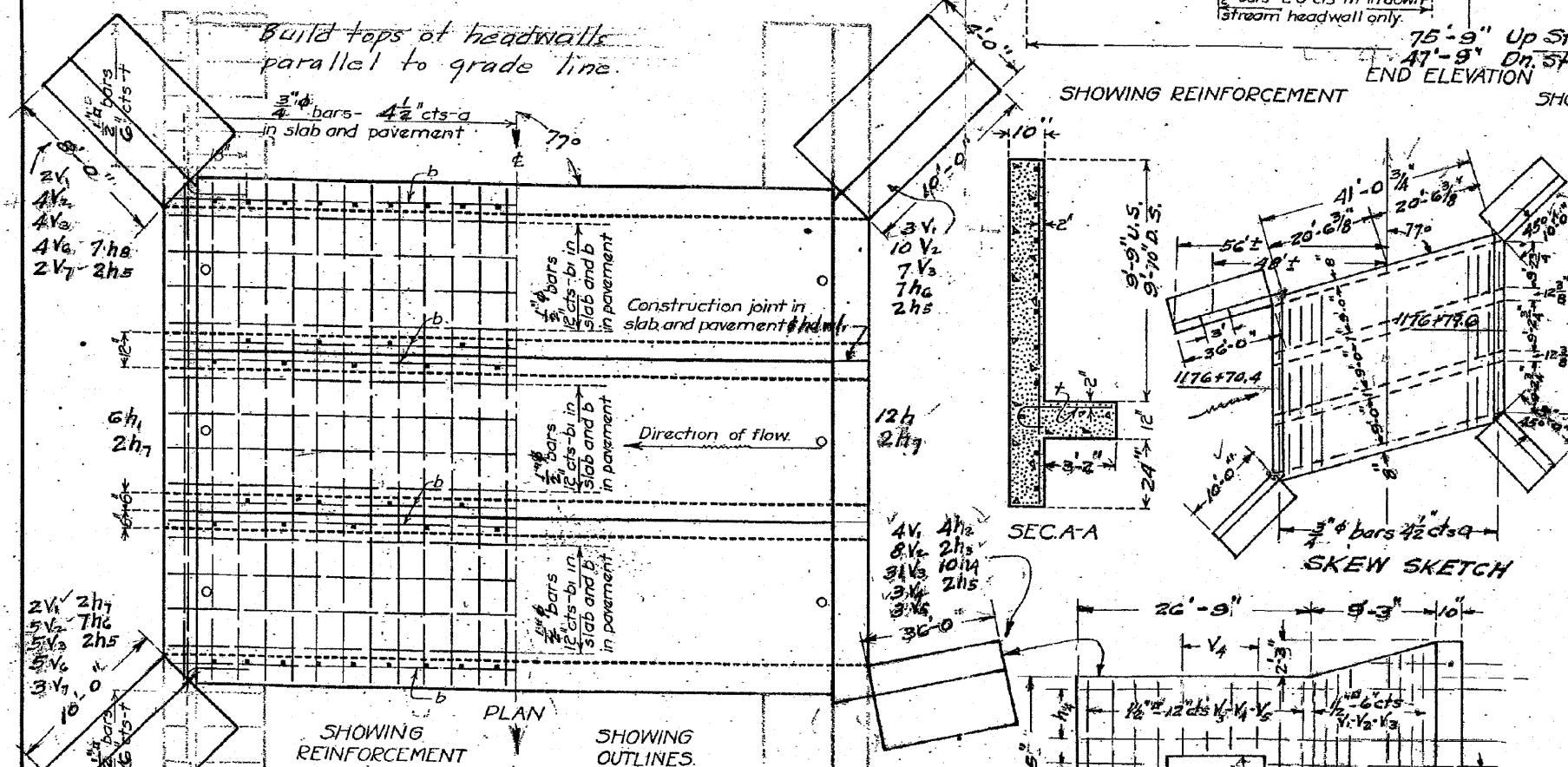
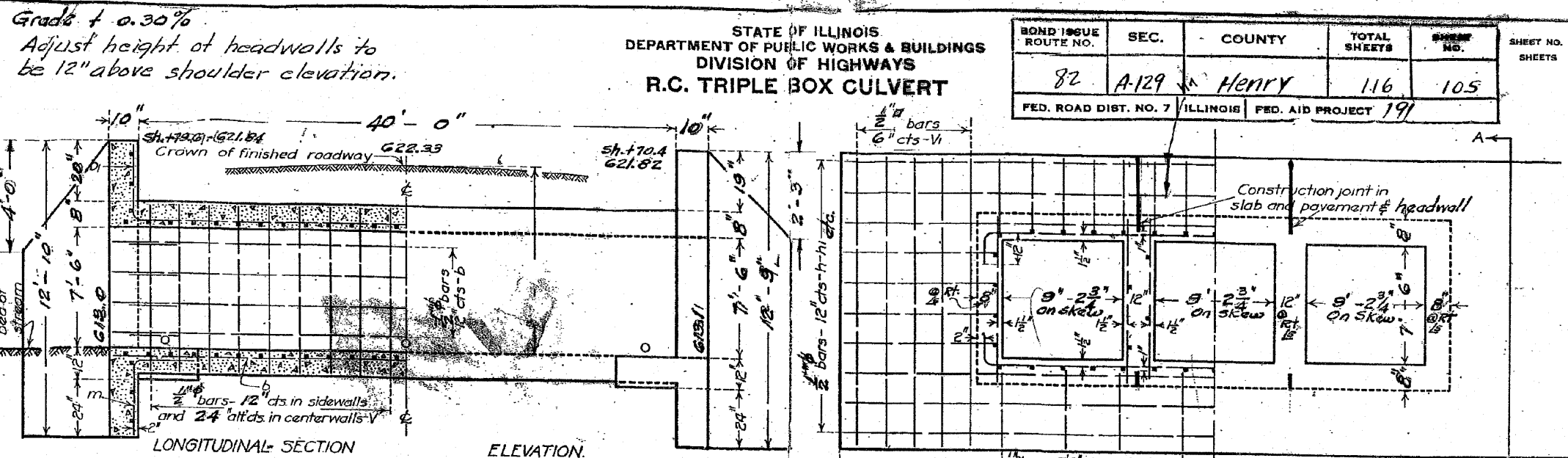
BORING LOGS IL ROUTE 82 OVER ELKS BRANCH STATION 1350+29.74 STRUCTURE NO 037-2027

COOMBE-BLOXDORF P.C. Engineers/Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	PROJECT NO. 08047	SHEET NO. 8 8 SHEETS	F.A.P. RTE. 638	SECTION 129BR	COUNTY HENRY	TOTAL SHEETS 42	SHEET NO. 25
	SCALE		CONTRACT NO. 64A04				
DESIGN BY		CHECKED BY CFC		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

PLOT DATE = 7/29/2008
 FILE NAME = Y:\10078829-03_64A04\CD\BSP_SN_037-2027\0372027-64A04-06-SBL.dgn
 PLOT SCALE = 0.10294 "1" / IN.
 USER NAME = HAS

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS & BUILDINGS DIVISION OF HIGHWAYS R.C. TRIPLE BOX CULVERT

BOND ISSUE ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. SHEETS
82	A-129	Henry	116	105	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 191					



h ₆	14	1/2"	11'-6"
h ₇	4	1/2"	9'-6"
h ₈	7	1/2"	9'-6"

BILL OF MATERIAL

BARS	NO.	SIZE	LENGTH
V	164	1/2" φ	8'-6"
V ₁	11	1/2"	12'-0"
V ₂	27	1/2"	11'-0"
h	12	1/2" φ	20'-6"
h ₁	6	1/2"	25'-0"
V ₃	47	1/2"	10'-0"
a	222	3/4"	32'-6"
V ₄	3	1/2"	9'-0"
b	116	1/2"	22'-0"
b ₁	60	1/2"	23'-6"
V ₅	3	1/2"	2'-6"
t	102	1/2"	4'-6"
m	12	1/2"	5'-0"

Reinforcing Steel-Lbs 16436
Concrete-Cu.Yds. 139.0

Class X Concrete to be used throughout

V ₆	9	1/2"	9'-0"
V ₇	5	1/2"	8'-0"
h ₂	4	1/2" φ	14'-0"
h ₃	2	1/2" φ	6'-6"
h ₄	10	1/2" φ	20'-0"
h ₅	8	1/2" φ	18'-0"

COMPLETED - J.B. Mahan
CHECKED - C.J. McGallister
DRAWN - J.B. Mahan
CHECKED - C.J. McGallister
SPECIAL ASSEMBLED - J.B. Mahan

EXAMINED - J. J. Pouch
PASSED - J. J. Pouch
APPROVED - J. J. Pouch

FILE NAME = D264A04-shr-rom01.dgn
USER NAME = HAS
PLOT SCALE = 8.0033 1/16 IN.
PLOT DATE = 7/29/2009 7:23:43 AM

DESIGNED - JMS
DRAWN - HAS
CHECKED - ELH
DATE - 07/17/09

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

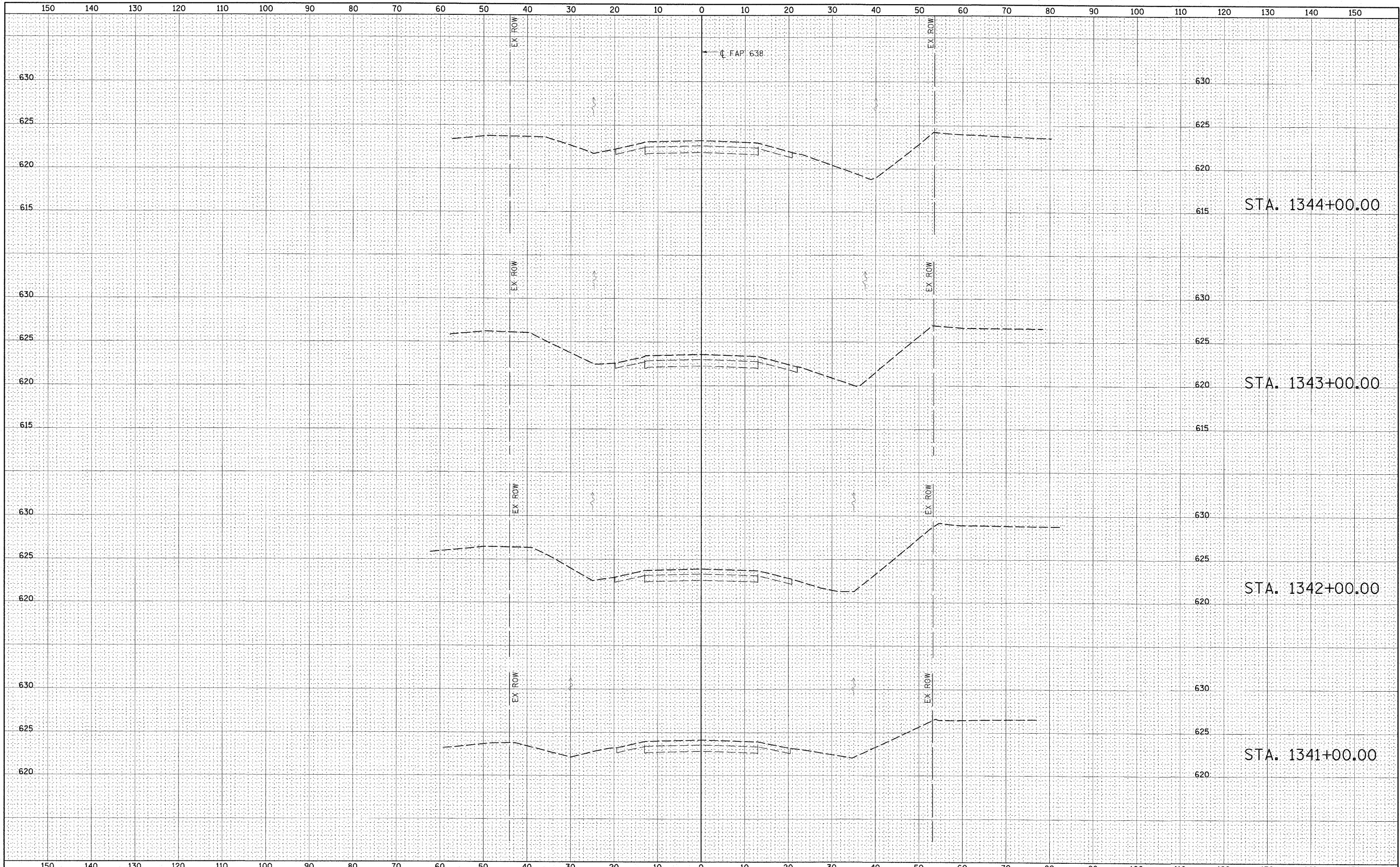
FOR REFERENCE ONLY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
63B	129BR	HENRY	42	26
CONTRACT NO. 64A04				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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

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



FILE NAME = Y:\DOT\829-03_64A04\CADD\Highway\CADD Sheets\0264A04-sht-xssht01.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 82 CROSS SECTIONS			F.A.P. RTE. 638	SECTION 129BR	COUNTY HENRY	TOTAL SHEETS 42	SHEET NO. 27
PLOT SCALE = 10.0000' / IN.	CHECKED - ELH	REVISED -	REVISED -		SCALE: 1"=10'-0"	SHEET NO. 1 OF 8 SHEETS	STA. 1341+00 TO STA. 1344+00	CONTRACT NO. 64A04				
PLOT DATE = 7/29/2009	DATE - 07/17/09	REVISED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



BY: _____ DATE: _____

FINAL SURVEY _____

SURVEYED _____

NOTED BOOK _____

PLOTTED _____

AREAS AT _____

AREAS CHECKED _____

NO. _____

BY: _____ DATE: _____

ORIGINAL SURVEY _____

SURVEYED _____

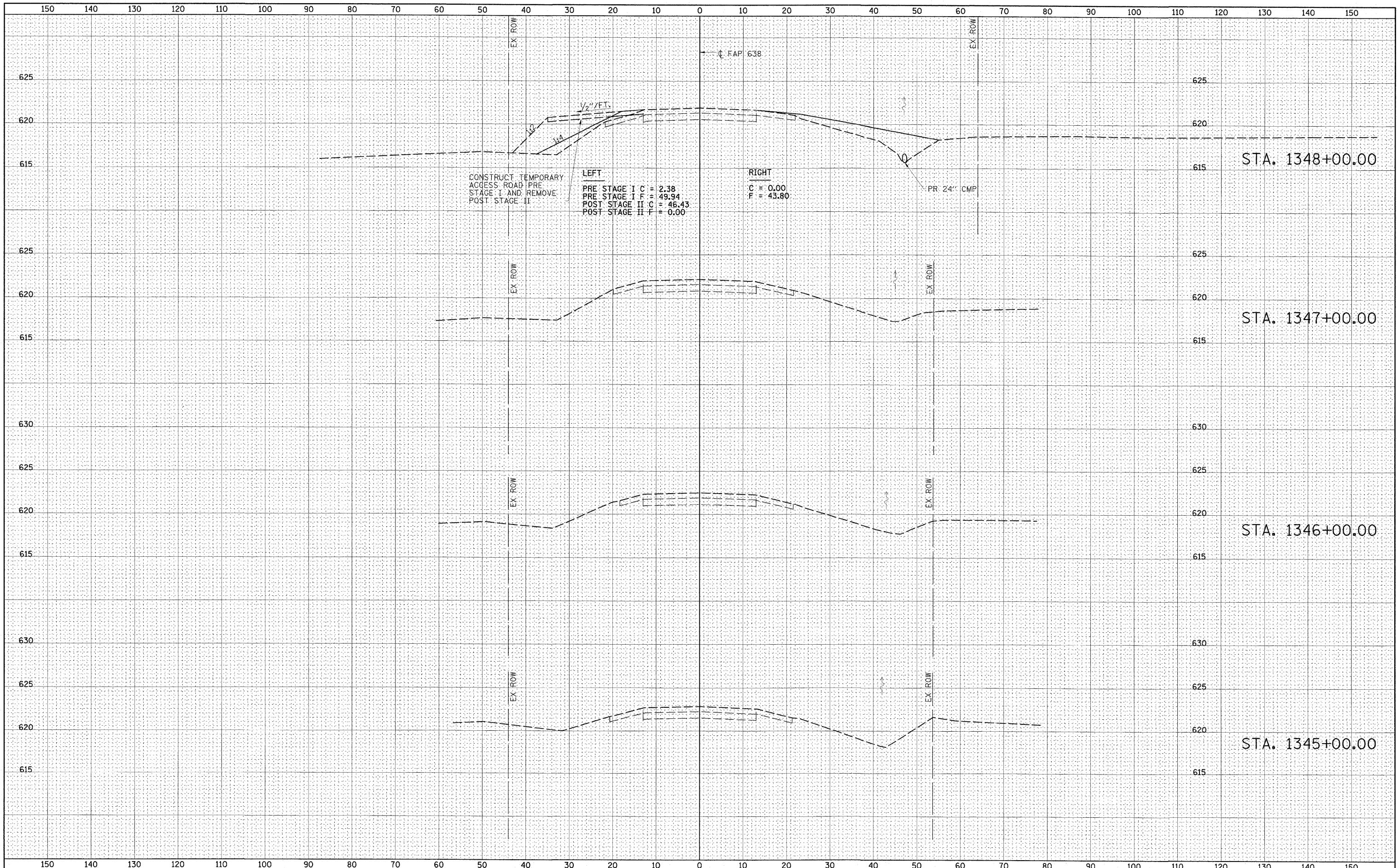
NOTED BOOK _____

PLOTTED _____

AREAS AT _____

AREAS CHECKED _____

NO. _____



CONSTRUCT TEMPORARY ACCESS ROAD PRE STAGE I AND REMOVE POST STAGE II

LEFT
 PRE STAGE I C = 2.38
 PRE STAGE I F = 49.94
 POST STAGE II C = 46.43
 POST STAGE II F = 0.00

RIGHT
 C = 0.00
 F = 43.80

FILE NAME = Y:\DOT\829-03_64A04\CADD\Highway\CADD Sheets\0264A04-sht-wsht281.dgn

USER NAME = HAS

DESIGNED - JMS

DRAWN - HAS

CHECKED - ELH

DATE - 07/17/09

REVISED -

REVISED -

REVISED -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 82 CROSS SECTIONS

SCALE: 1"=10'-0"

SHEET NO. 2 OF 8 SHEETS

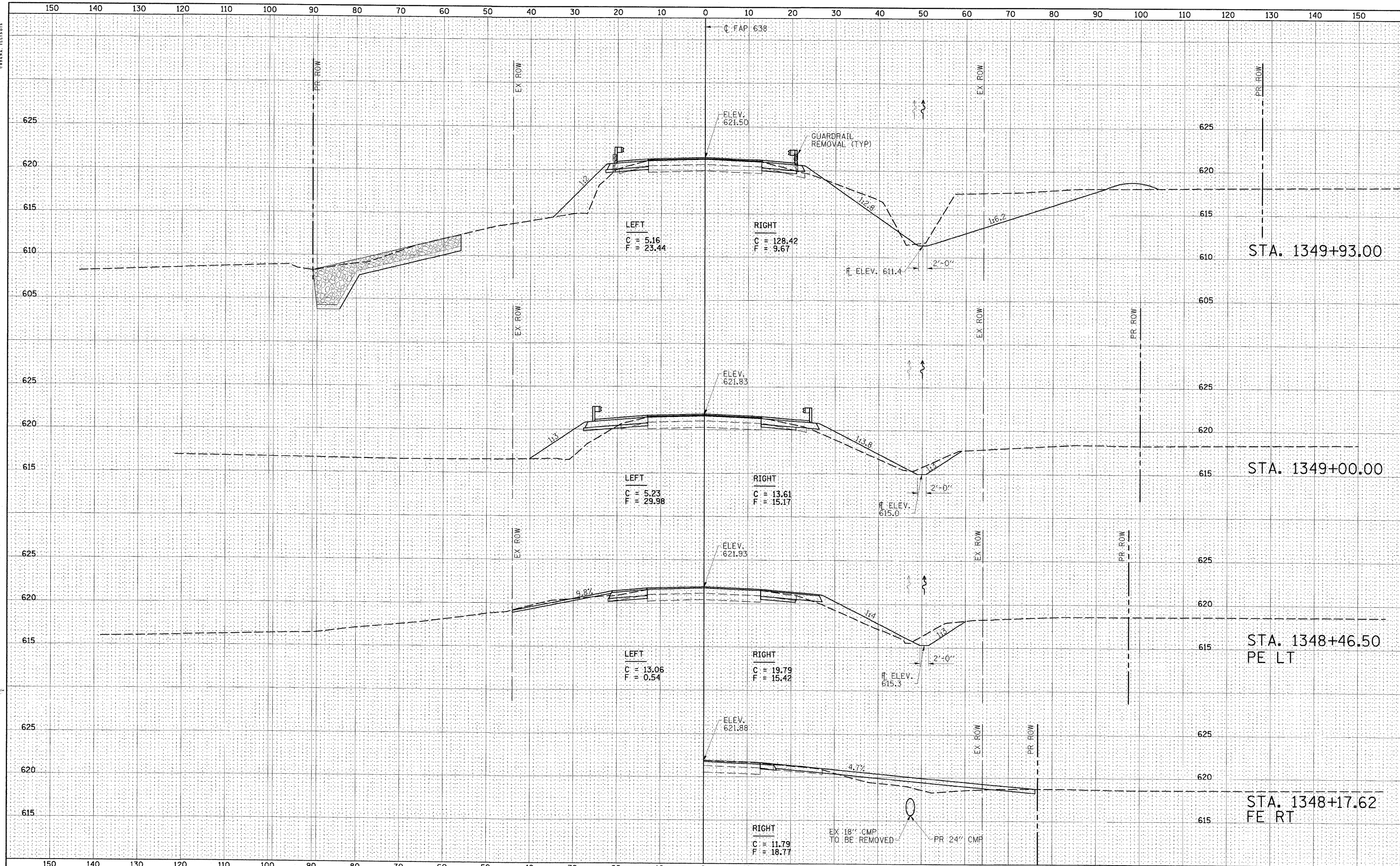
STA. 1345+00 TO STA. 1348+00

F.A.P. RTE. 638	SECTION 129BR	COUNTY HENRY	TOTAL SHEETS 42	SHEET NO. 28
CONTRACT NO. 64A04				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

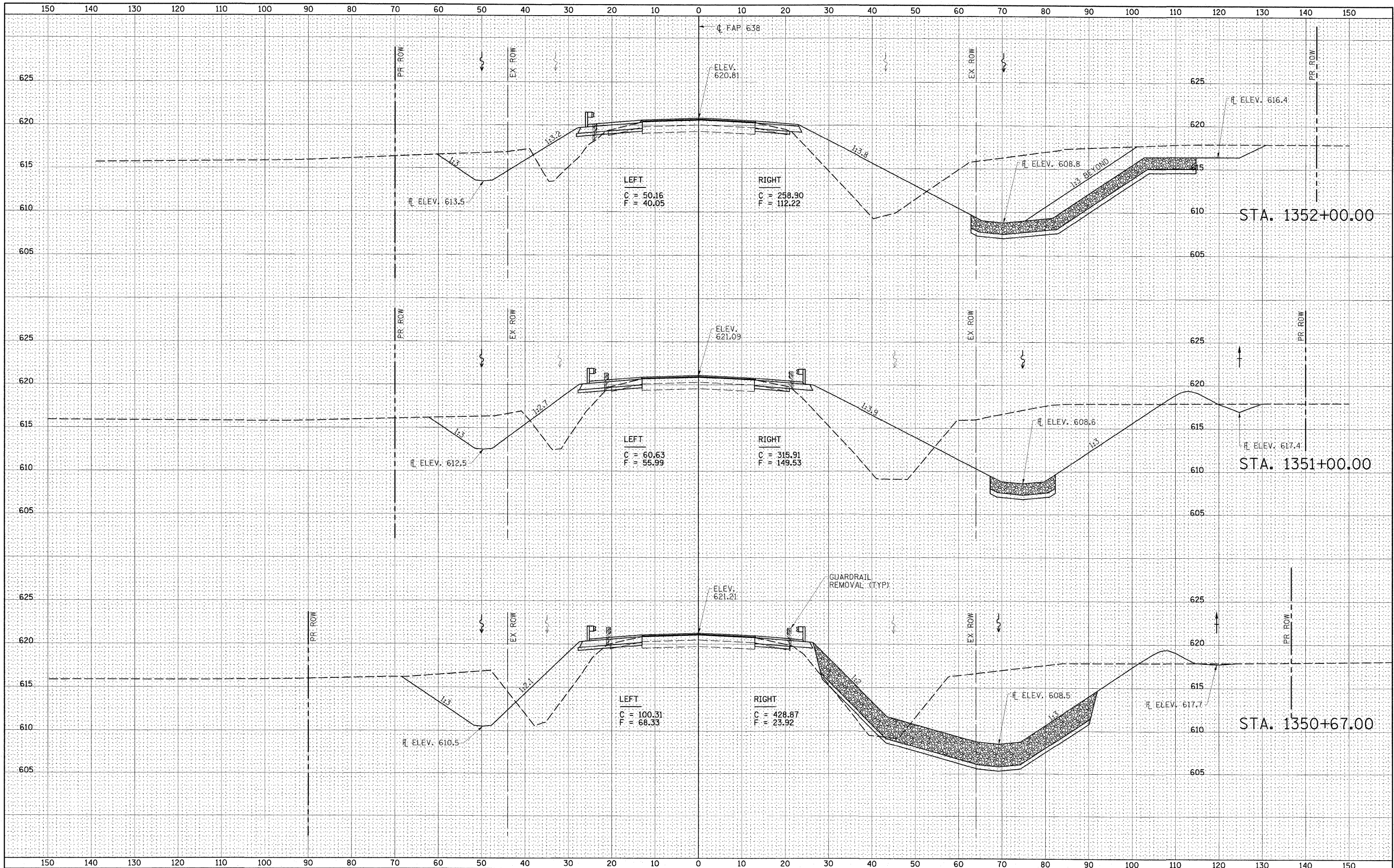


DATE	
BY	
FINAL SURVEY	
CHECKED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
NO.	

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



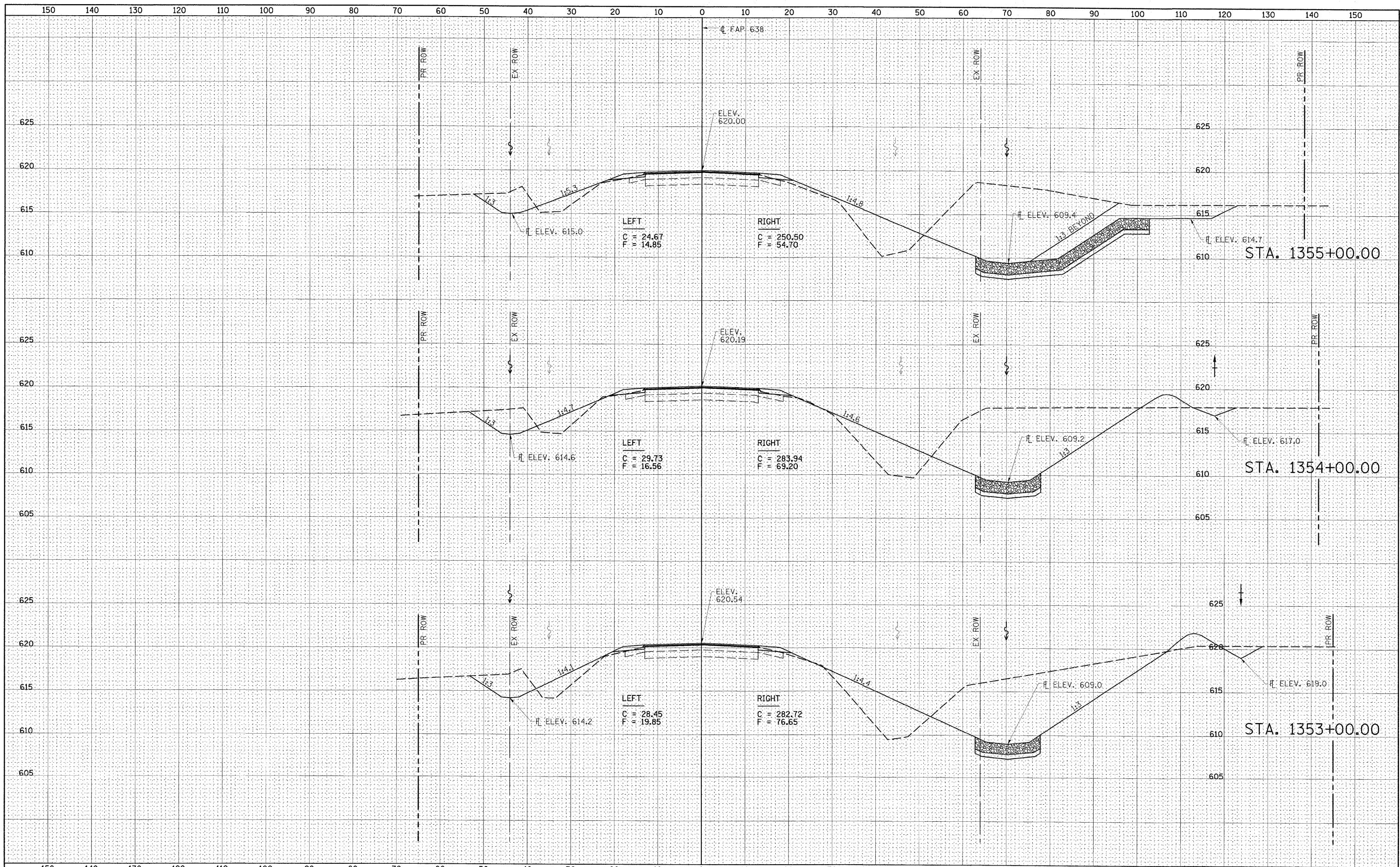
FILE NAME = Y:\DOT\629-03_64A04\CADD\Highway\CADD Sheets\0264A04-sht-xxsh01.dgn	USER NAME = HAS	DESIGNED - JMS	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 82 CROSS SECTIONS			F.A.P. RTE. 638	SECTION 129BR	COUNTY HENRY	TOTAL SHEETS 42	SHEET NO. 29
PLOT SCALE = 10.0000' / IN.	DATE = 09/08/09	DRAWN - HAS	REVISD -		SCALE: 1"=10'-0"	SHEET NO. 3 OF 8 SHEETS	STA. 1348+17.62 TO STA. 1349+93	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 64A04		
PLOT DATE = 9/9/2009		CHECKED - ELH	REVISD -									
		DATE - 09/08/09	REVISD -									





DATE	BY
NO.	

DATE	BY
NO.	

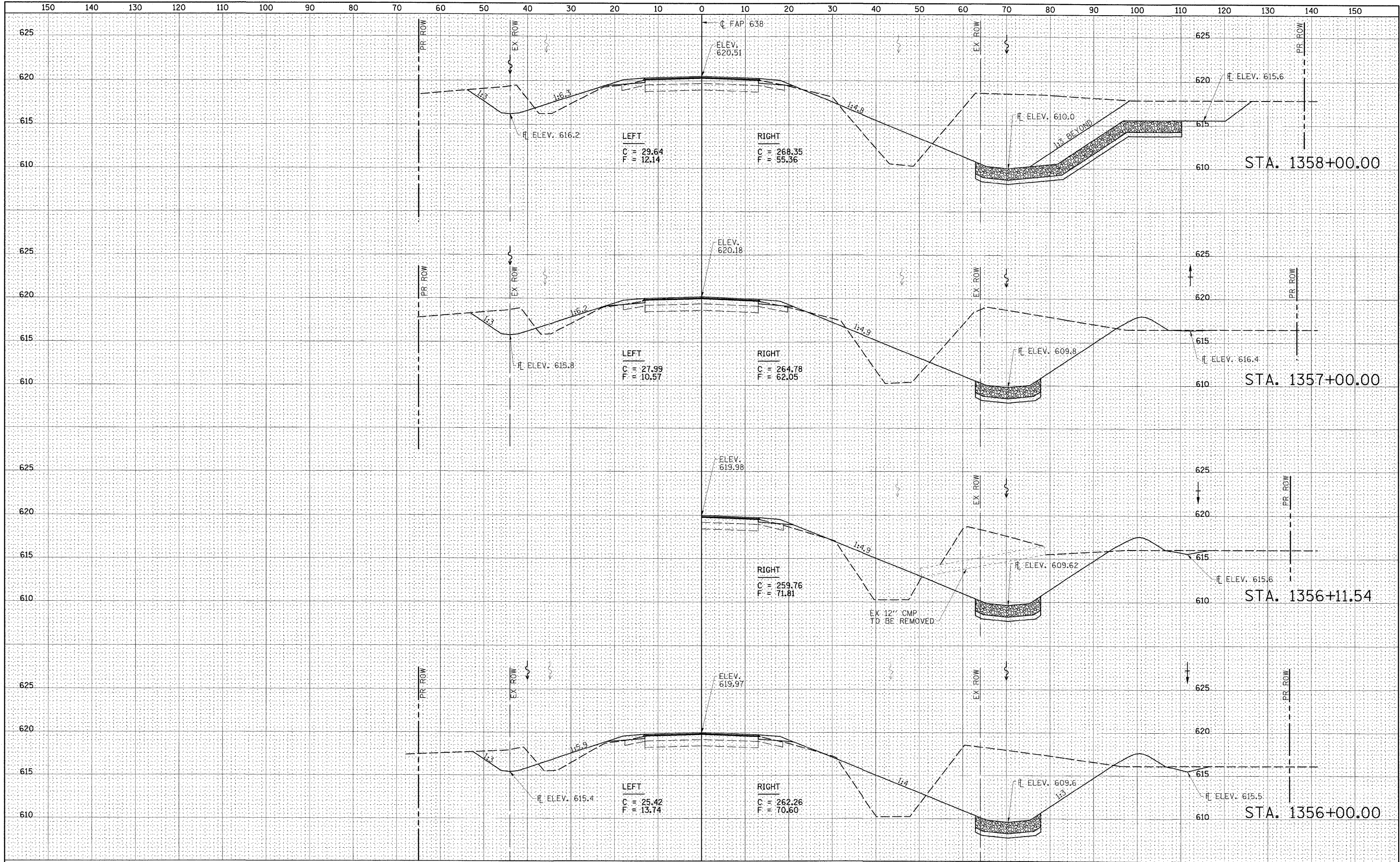


FILE NAME =	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 82 CROSS SECTIONS	F.A.P. 638	SECTION 129BR	COUNTY HENRY	TOTAL SHEETS 42	SHEET NO. 31		
Y:\1007\829-83_64A04\CADD\Highway\CADD Sheets\0264A04-shr-vssht01.dgn	PLOT SCALE = 10.0000 / IN.	CHECKED - ELH	REVISED -			SCALE: 1"=10'-0"	SHEET NO. 5 OF 8 SHEETS	STA. 1353+00 TO STA. 1355+00	CONTRACT NO. 64A04			
PLOT DATE = 7/29/2009	DATE - 07/17/09	REVISED -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						



BY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

BY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

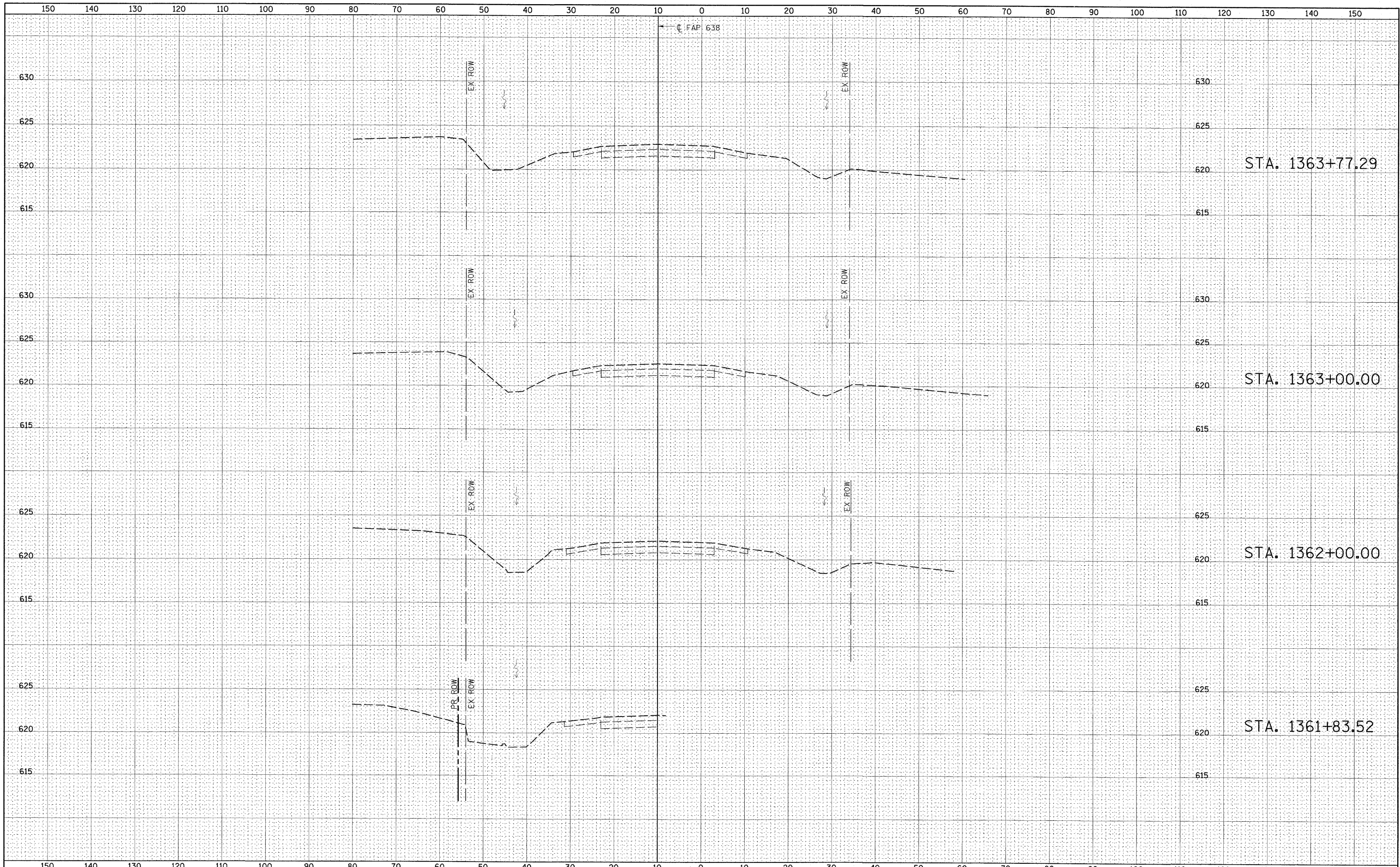


FILE NAME =	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 82 CROSS SECTIONS SCALE: 1"=10'-0" SHEET NO. 6 OF 8 SHEETS STA. 1356+00 TO STA. 1358+00	F.A.P. RTE. 638	SECTION 129BR	COUNTY HENRY	TOTAL SHEETS 42	SHEET NO. 32
Y:\100T\829-03.64A04\CADD\Highway\CADD Sheets\0264A04-shr-xssht01.dgn	PLLOT SCALE = 10,0000' / IN.	CHECKED - ELH	REVISED -			CONTRACT NO. 64A04				
PLLOT DATE = 7/29/2009	DATE - 07/17/09	REVISED -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



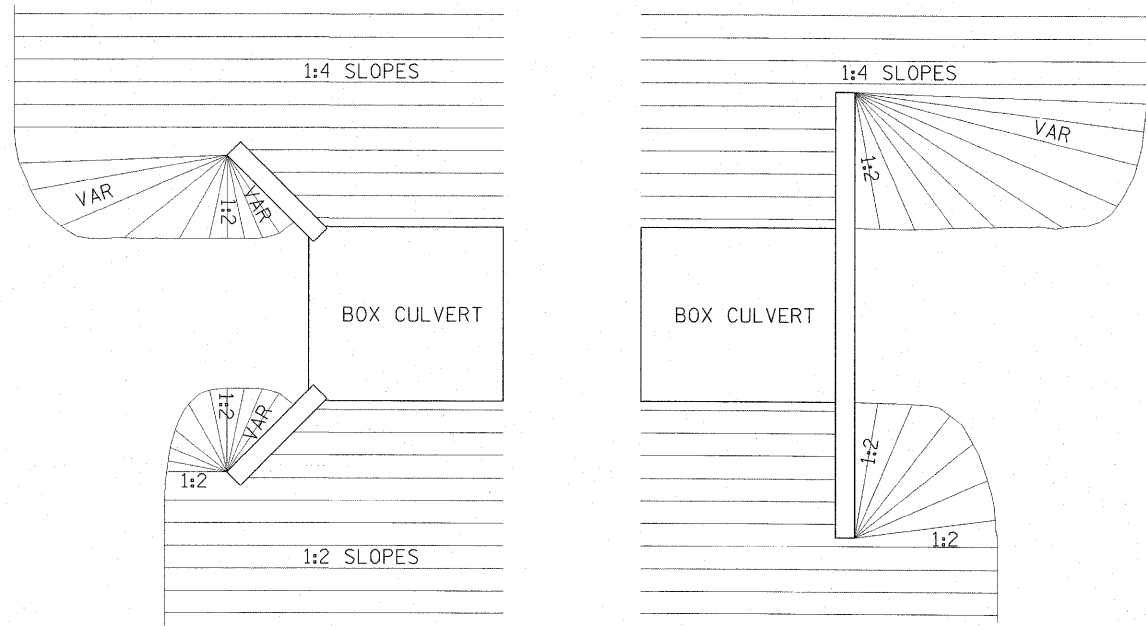
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	DATE		
	AREAS CHECKED		

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



FILE NAME =	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 82 CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Y:\DOT\829-83_64A04\CADD\Highway\CADD Sheets\0264A04-sh1-csht01.dgn	DRAWN - HAS	CHECKED - ELH	REVISED -			638	129BR	HENRY	42	34	
PLOT SCALE = 10.0000 / IN.	DATE - 07/17/09	REVISED -	REVISED -			CONTRACT NO. 64A04					
PLOT DATE = 7/29/2009						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

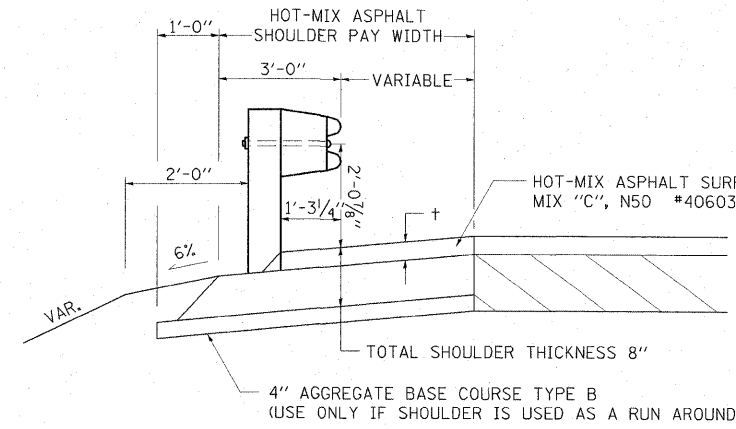
GRADING AROUND WINGWALLS



10-21-08

GRADING AROUND WINGWALLS 20.4

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 2'-0 7/8" FROM THE FINISHED SURFACE.

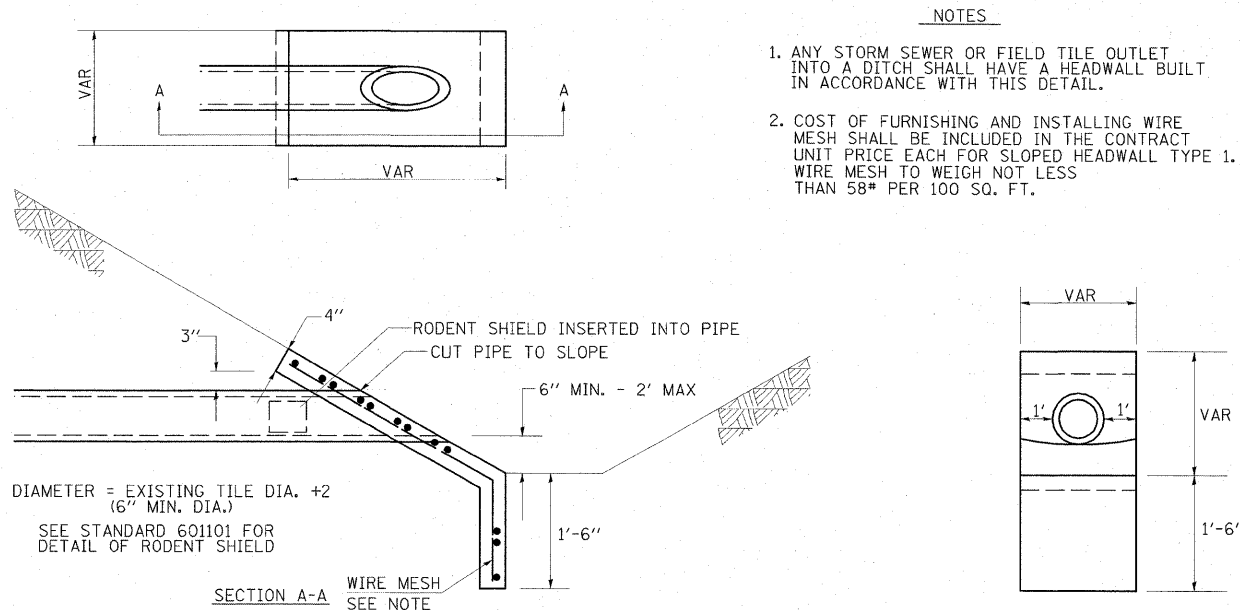
THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIXTURE "C", N50 AND SQUARE METER (SQUARE YARD)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

DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARDRAIL

REVISED - 11-01-07

DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARD RAIL 23.4

SLOPED HEADWALL TYPE 1 FOR FIELD TILE OUTLETS



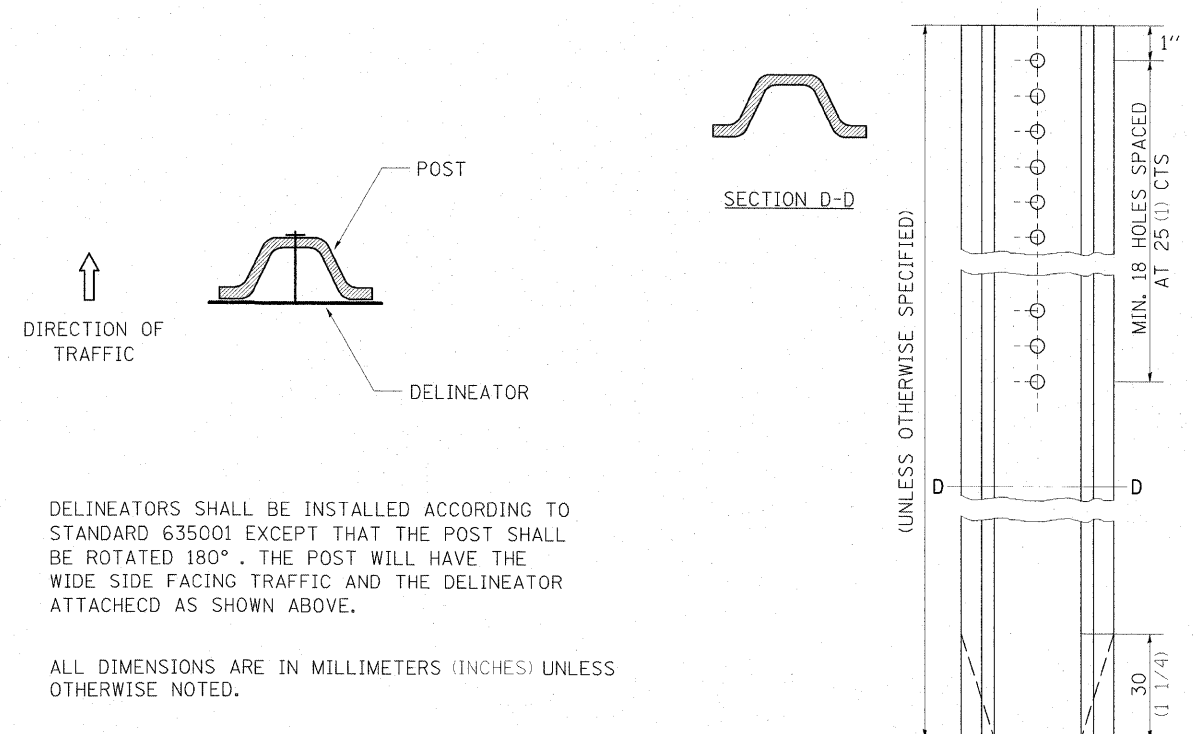
NOTES

1. ANY STORM SEWER OR FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.
2. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE EACH FOR SLOPED HEADWALL TYPE 1. WIRE MESH TO WEIGH NOT LESS THAN 58* PER 100 SQ. FT.

REVISED - 10-21-08

SLOPED HEADWALL TYPE 1 FOR FIELD TILE OUTLETS 28.4

DELINEATOR AND POST ORIENTATION



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 ATTACHED AS SHOWN ABOVE.

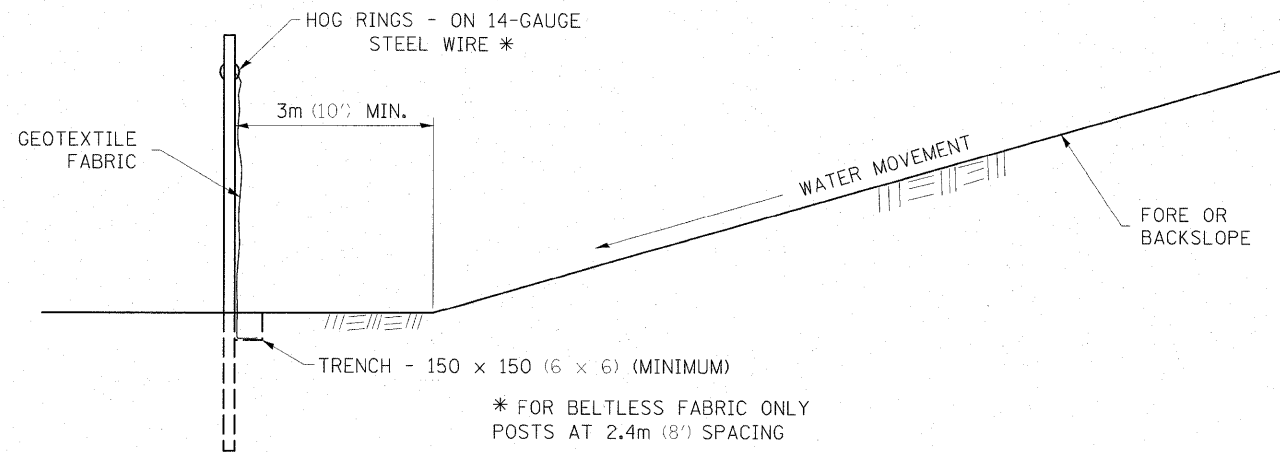
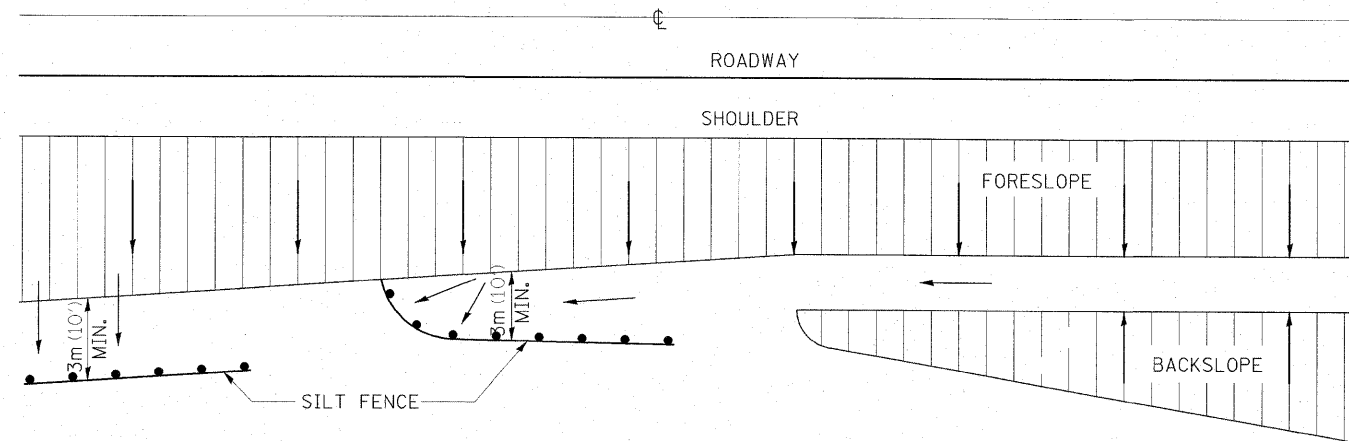
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISED - 11-01-07

DELINEATOR AND POST ORIENTATION 37.4

FILE NAME = D264A04-sht-deta:ls32.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 2 STANDARDS			F.A.P. RTE. 638	SECTION 129BR	COUNTY HENRY	TOTAL SHEETS 42	SHEET NO. 35
PLOT SCALE = 0.0033' / IN.	CHECKED - ELH	REVISIONS	CONTRACT NO. 64A04									
PLOT DATE = 7/29/2009 7:16:52 AM	DATE - 07/17/09	REVISIONS	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT									
								SCALE: NO SCALE SHEET NO. 1 OF 8 SHEETS STA. TO STA.				

EROSION CONTROL DETAILS FOR SILT FENCE

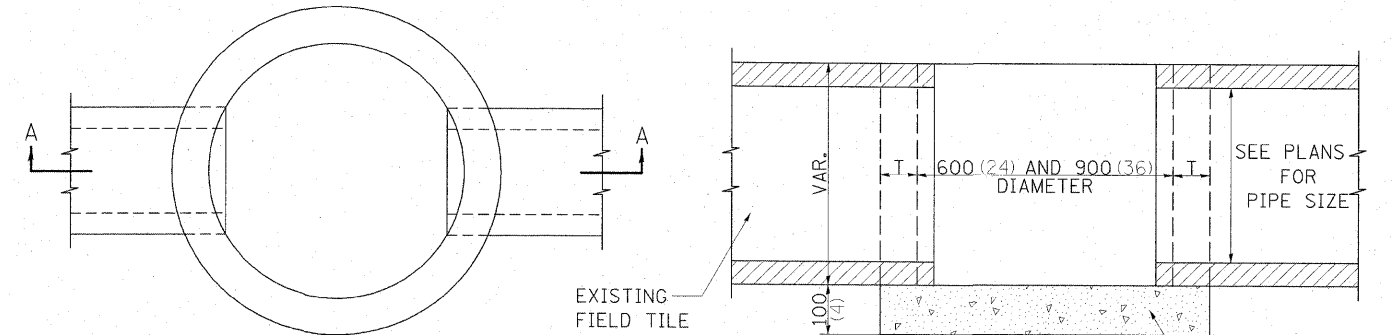
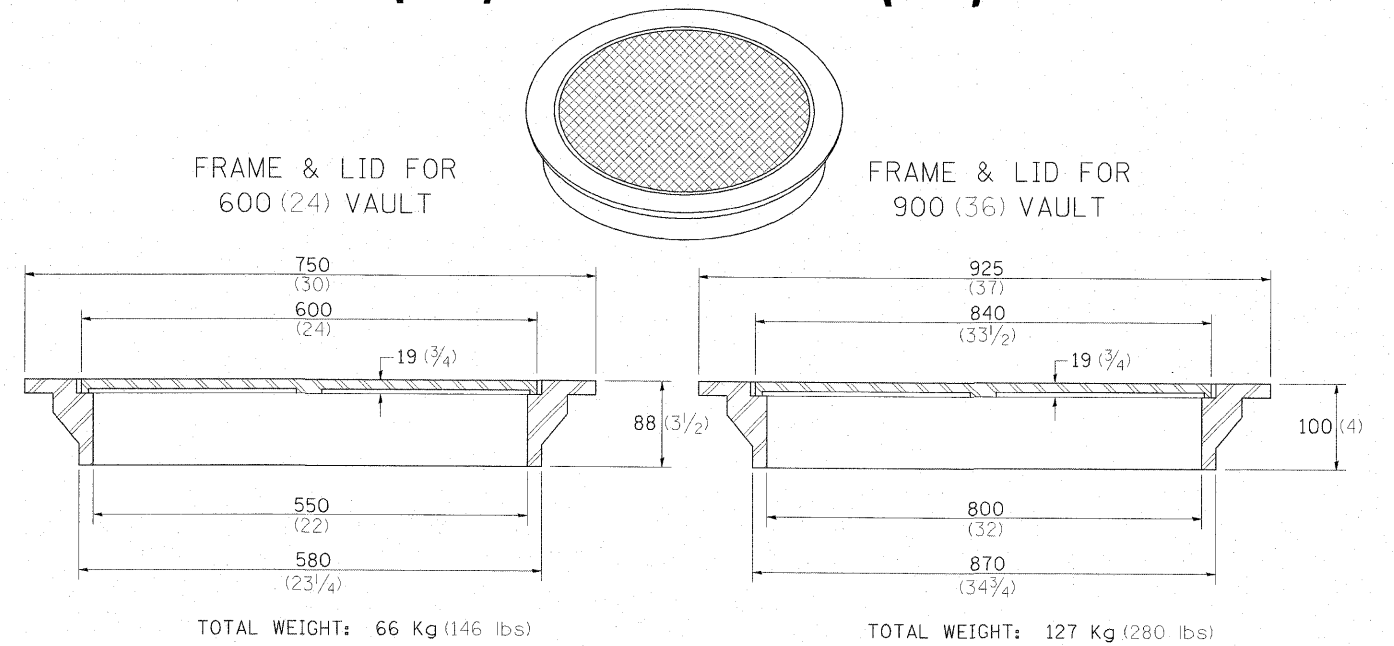


DETAILS OF SILT FENCE

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

EROSION CONTROL DETAILS FOR SILT FENCE 29.2

FIELD TILE JUNCTION VAULTS 600 (24) AND 900 (36) DIA.



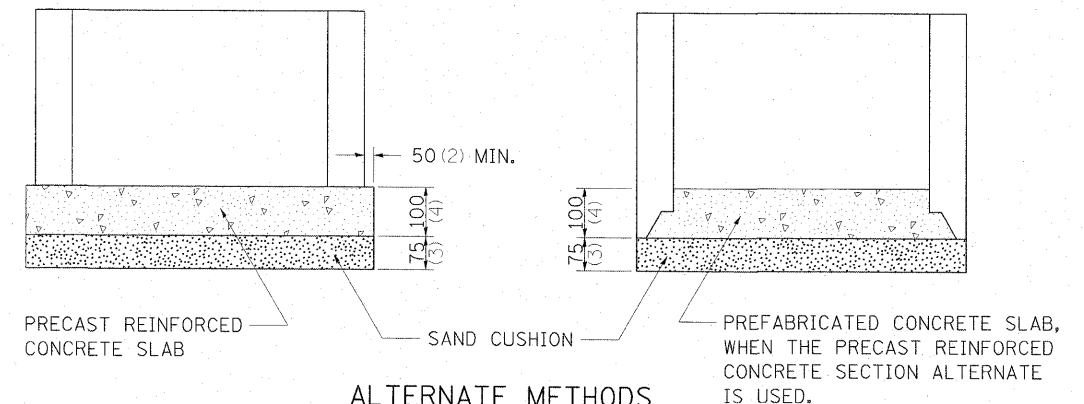
PLAN

ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	200 (8)
CAST-IN-PLACE CONCRETE	150 (6)
CONCRETE MASONRY UNIT	125 (5)
PRECAST REINFORCED CONCRETE SECTION	75 (3)

SECTION A-A

NOTE: THE FRAME AND LID IS REQUIRED ON ALL JUNCTION VAULTS.

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



ALTERNATE METHODS

FIELD TILE JUNCTION VAULTS 600 (24) AND 900 (36) DIA. 30.2

REVISED - 10-22-01

FILE NAME = D264A04-shd-deta1s03.dgn

USER NAME = HHS

PLOT SCALE = 0.0033 1/ IN.

PLOT DATE = 8/3/2009 8:55:17 AM

DESIGNED - JMS

DRAWN - JPC

CHECKED - ELH

DATE - 08/03/09

REVISED -

REVISED -

REVISED -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REVISED - 5-03-94

DISTRICT 2 STANDARDS

SCALE: NO SCALE

SHEET NO. 3 OF 8 SHEETS

STA.

TO STA.

F.A.P. RTE.

638

SECTION

129BR

COUNTY

HENRY

TOTAL SHEETS

42

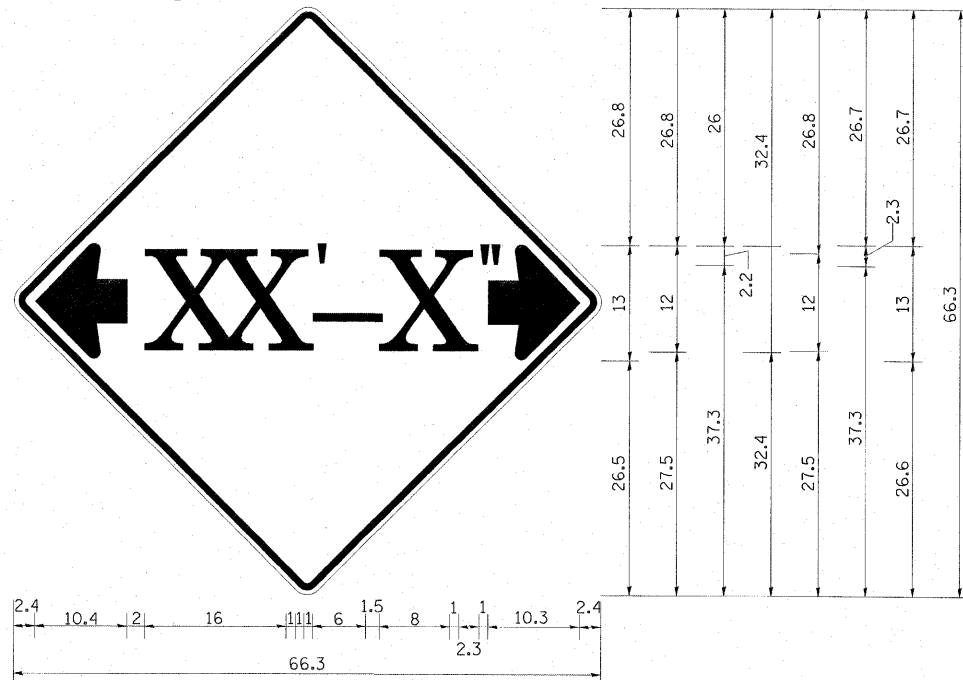
SHEET NO.

37

CONTRACT NO. 64A04

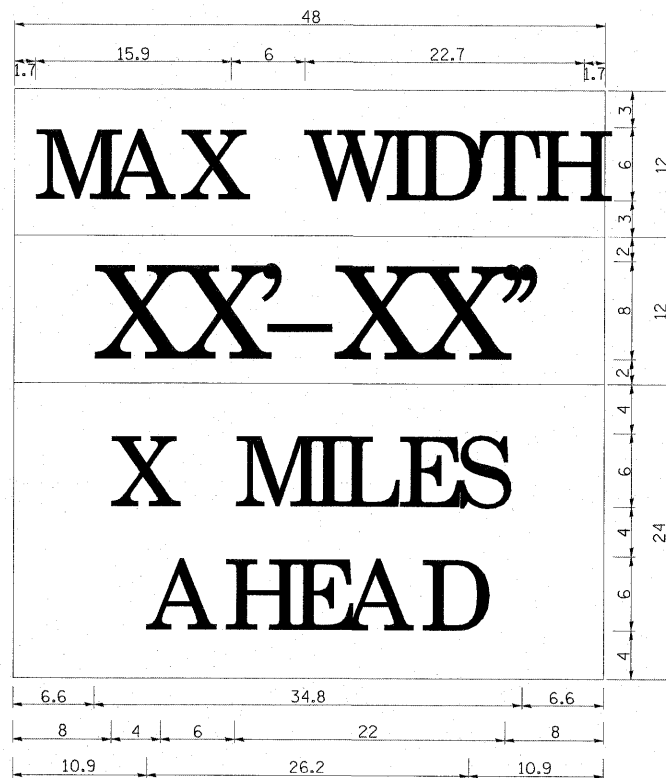
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

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.

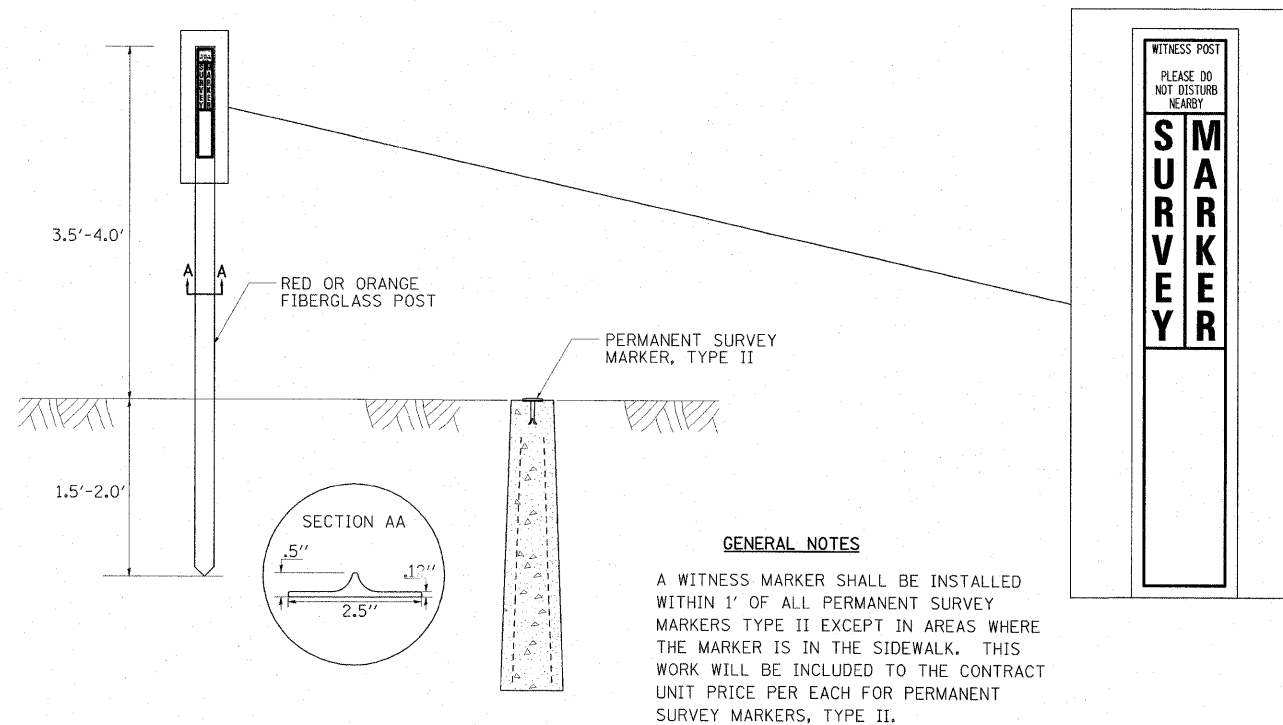
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 1-9-08

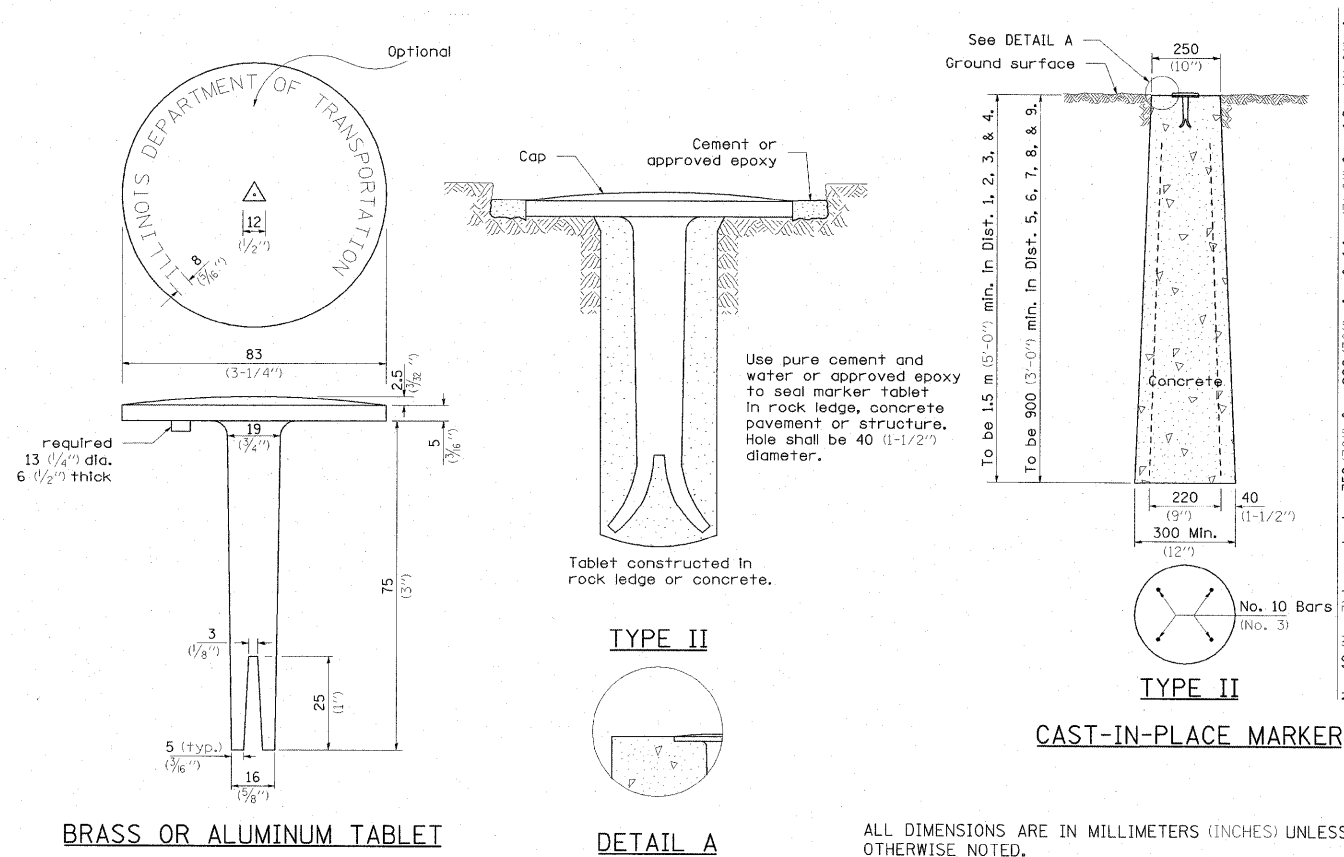
INFORMATIONAL WARNING SIGNS (FOR NARROW TRAVEL LANES) 39.2

FILE NAME = U264A04-sht-details18.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 2 STANDARDS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 0.0033' / IN.	DRAWN - HAS	REVISED -			638	129BR	HENRY	42	37A	
	PLOT DATE = 8/3/2009 8:55:25 AM	CHECKED - ELH	REVISED -			CONTRACT NO. 64A04					
		DATE - 08/03/09	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
				SCALE: NO SCALE		SHEET NO. 3A OF 8 SHEETS		STA.		TO STA.	

WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II

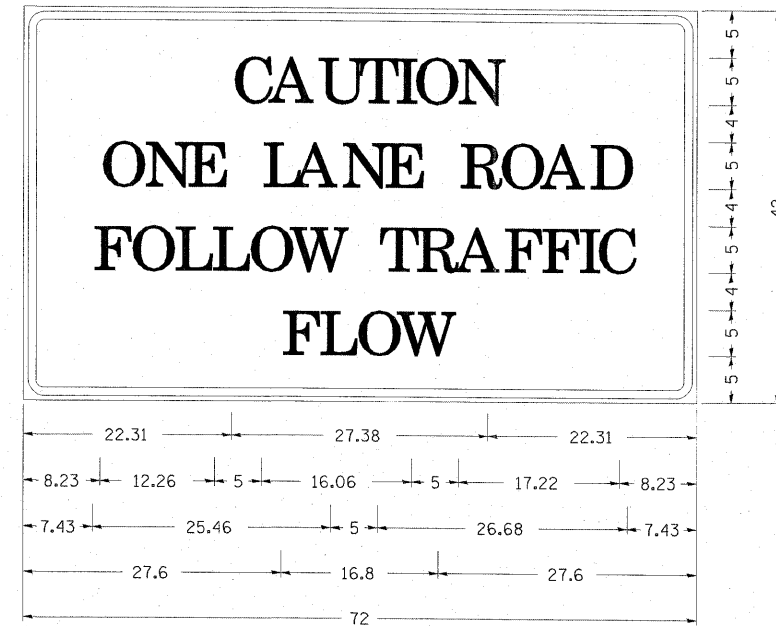


PERMANENT SURVEY MARKERS, TYPE II



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

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

22.31	C	3.36	A	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
8.23	O	3.51	N	1.17	3.36	1.18	3.04									
	L	3.05	A	0.31	4.18	0.94	3.36	1.17	3.05							
	R	3.36	O	0.93	3.52	0.94	4.18	0.93	3.36	8.23						
7.43	F	3.04	O	0.94	3.52	1.17	3.04	0.94	3.05	0.94	3.51	0.94	4.37			
	T	3.05	R	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
27.60	F	3.05	L	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.

REVISED - 10-28-05

ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS 75.2

REVISED - 10-21-08

WITNESS MARKER & PERMANENT SURVEY MARKERS, TYPE II 66.2

FILE NAME = 0264A04-sh-t-detail1s04.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -
PLOT SCALE = 0.0033 1/1 IN.	DRAWN - JPC	CHECKED - ELH	REVISED -
PLOT DATE = 7/29/2009 7:17:04 AM	DATE - 07/17/09		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 2 STANDARDS

SCALE: NO SCALE SHEET NO. 4 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	129BR	HENRY	42	38
CONTRACT NO. 64A04				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



STORM WATER POLLUTION PREVENTION PLAN

EROSION CONTROL PLAN

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE SILTATION WITHIN THE CONSTRUCTION ZONE AND TO ELIMINATE SEDIMENTS FROM ENTERING AND LEAVING THE CONSTRUCTION ZONE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN ITEMS, AS SHOWN IN THIS PLAN AND REFERENCED BY THE LEGEND, SHALL BE PLACED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION RESULTING FROM THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL PLACE PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A REASONABLE AMOUNT OF TIME; THEREFORE, REDUCING THE AMOUNT OF AREA BEING OPEN TO THE POSSIBILITY OF EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE RESIDENT ENGINEER WILL DETERMINE IF TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED, THE SIZE OF THE PROPOSED DITCH CHECKS, THE PROPER METHOD OF INSTALLATION, AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS SHALL BE ADDED WHICH ARE NOT INCLUDED IN THE PLANS. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

THIS PROJECT CONSISTS OF REMOVAL OF A BOX CULVERT AND REPLACING IT WITH A BOX CULVERT, AND RELOCATING ELKS BRANCH AND ITS TRIBUTARY IN ORDER TO REDUCE GUARDRAIL LENGTHS

DESCRIPTION OF INTENDED SEQUENCE OF ACTIVITIES:

THE SEQUENCE OF EVENTS ARE AS FOLLOW: CLEARING, EMBANKMENT, EXCAVATION, GRADING AND PAVING. THIS PROJECT WILL BE CONSTRUCTED IN SEGMENTS AS SHOWN IN THE "STAGING PLANS".

TOTAL CONSTRUCTION SITE (CONSTRUCTION LIMIT TO CONSTRUCTION LIMIT) 5.3 ACRES
 PROPOSED R.O.W (TOTAL PARCEL AREA) 6.2 ACRES
 DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT) 4.6 ACRES

SUPPORTING REPORTS AND PLANS

THE FOLLOWING ASSISTED IN DEVELOPING THE EROSION CONTROL PLAN AS REFERENCED DOCUMENTS:

SOIL PROFILE SHEETS, SOILS REPORTS, BORING LOGS
 USGS DRAINAGE MAPS, PROJECT PLAN DOCUMENTS

DRAINAGE TRIBUTARIES RECEIVING WATER FROM CONSTRUCTION SITE
ELKS BRANCH NORTH OF GENESEO

EROSION CONTROLS AND SEDIMENT CONTROL PROCEDURES

STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:

PERIMETER EROSION CONTROL SHALL BE PLACED PRIOR TO BEGINNING EARTHWORK.

STABILIZATION PRACTICES DURING CONSTRUCTION:

AS EARTH EXCAVATION AND EMBANKMENT ARE BEING COMPLETED THE CONTRACTOR SHALL PLACE DITCH CHECKS, INLET AND PIPE PROTECTION, EROSION CONTROL BLANKET, AND SEEDING AS STAGES OF THE PROJECT ARE COMPLETED. PERIMETER EROSION BARRIER WILL BE INSTALLED AT ADDITIONAL LOCATIONS AS THE PROJECT PROGRESSES. SEEDING SHALL BE COMPLETED AS SPECIFIED IN THE EROSION CONTROL/SEEDING MOBILIZATION AND TEMPORARY SEEDING SPECIAL PROVISION.

MAINTENANCE AFTER FINAL GRADING

TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED WITH THE PROPER STAND. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP AND DISTURBED TURF RESEDED.

REVISED - 5-12-04

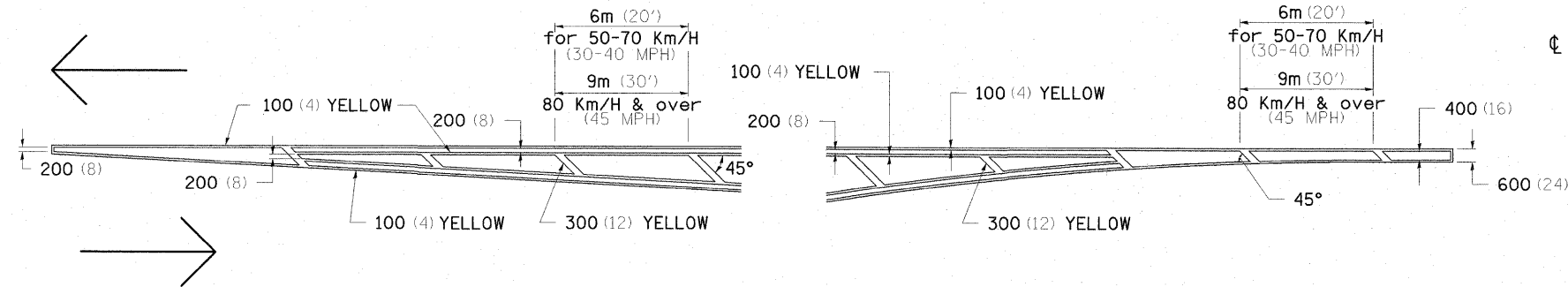
STORM WATER POLLUTION PREVENTION PLAN

2.1

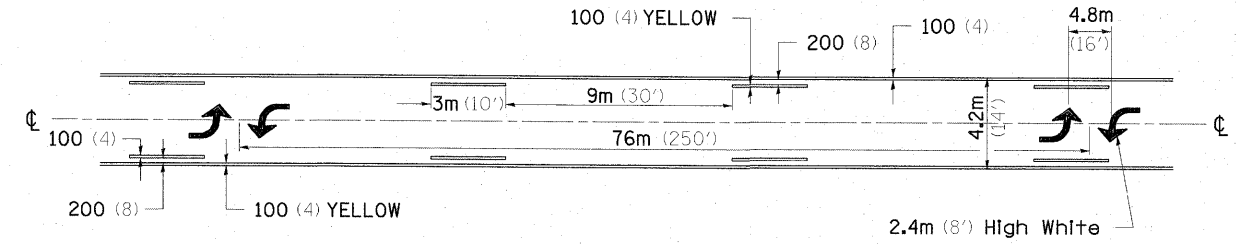
FILE NAME = D264A04-shr-deta:ls05.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 2 STANDARDS	F.A.P. RTE. 638	SECTION 129BR	COUNTY HENRY	TOTAL SHEETS 42	SHEET NO. 39
PLOT SCALE = 0.0033' / IN.		CHECKED - ELH	REVISED -	SCALE: NO SCALE		SHEET NO. 5 OF 8 SHEETS		STA. TO STA.		CONTRACT NO. 64A04
PLOT DATE = 7/29/2009 7:17:10 AM		DATE - 07/17/09	REVISED -			FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

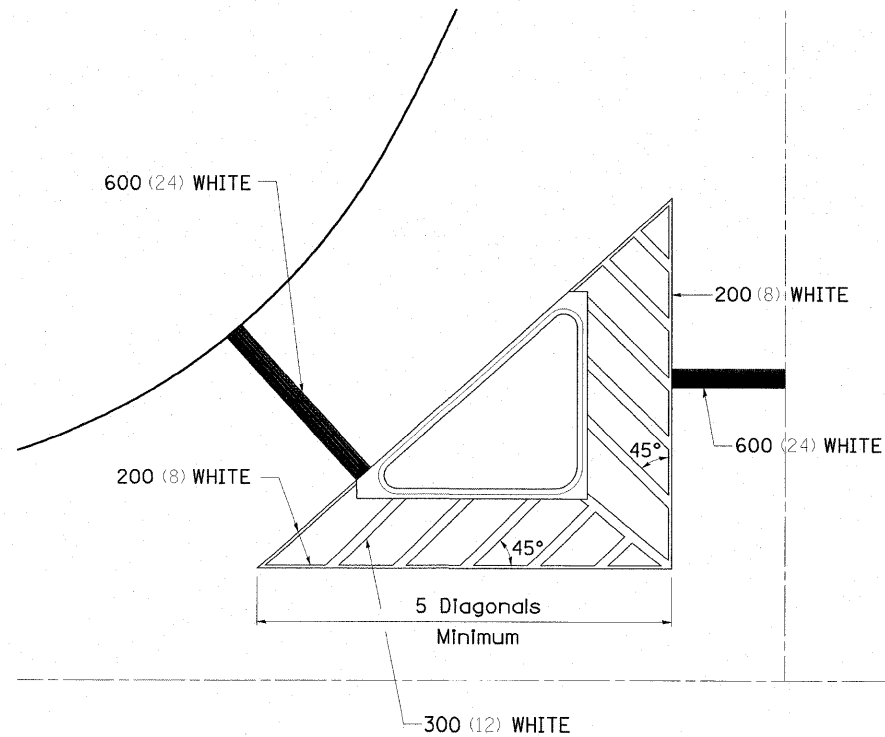


MEDIAN PAVEMENT MARKING

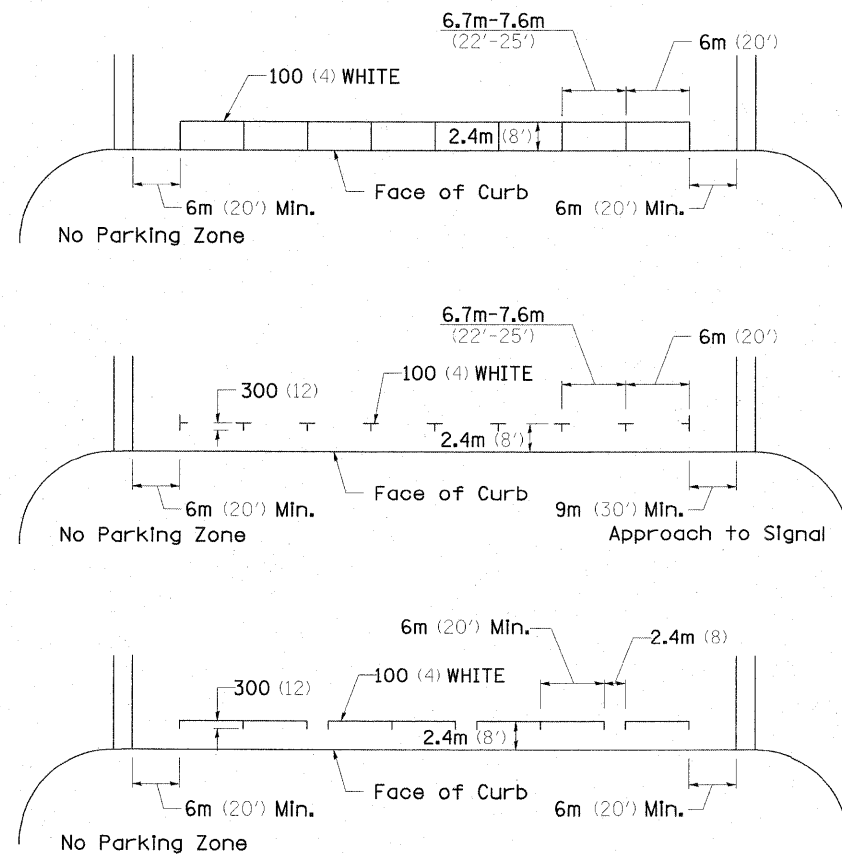


** ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH

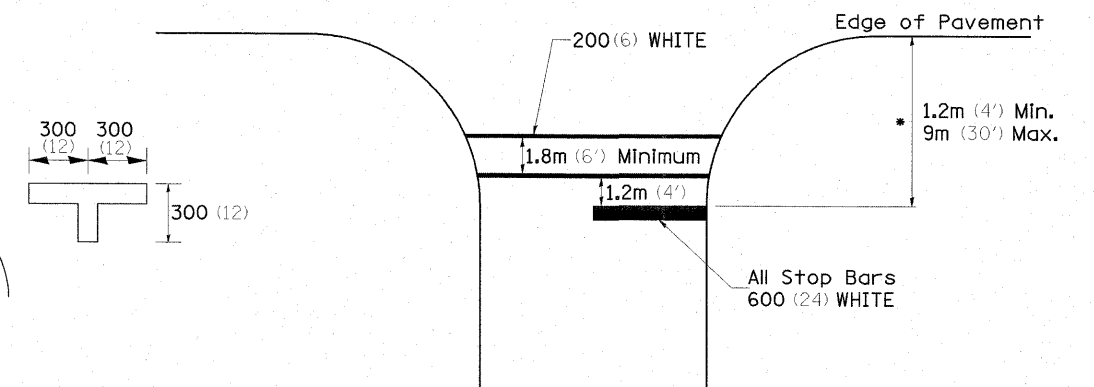


TYPICAL PARKING SPACING



STANDARD CROSSWALK MARKING

See Schedules for Locations



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

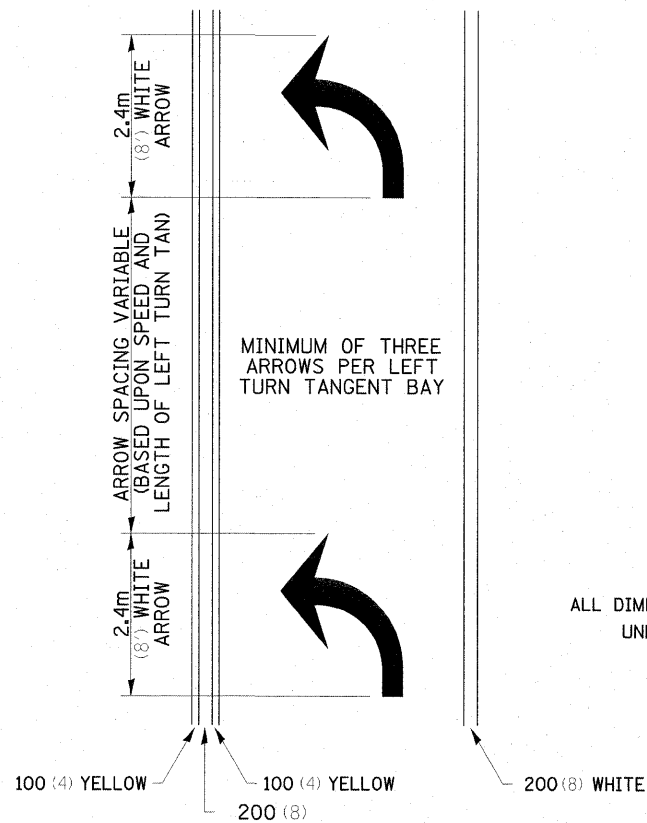
REVISED - 10-21-08

TYPICAL PAVEMENT MARKINGS SHEET 1 OF 3 41.1

FILE NAME = 0264A04-shr-deta:1s06.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 2 STANDARDS		F.A.P. RTE. 63B	SECTION 129BR	COUNTY HENRY	TOTAL SHEETS 42	SHEET NO. 40			
PLOT SCALE = 8.0833' / IN.	CHECKED - ELH	DATE - 07/17/09	REVISED -				SCALE: NO SCALE	SHEET NO. 6 OF 8 SHEETS	STA.	TO STA.	CONTRACT NO. 64A04			
PLOT DATE = 7/29/2009 7:17:16 AM			REVISED -				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
			REVISED -											

TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT

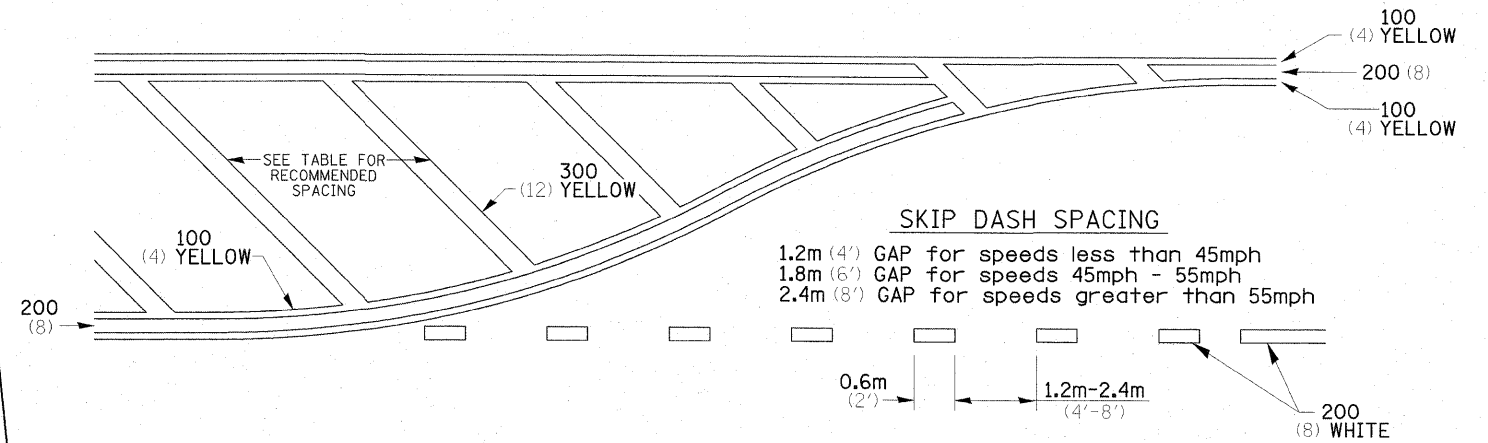


- ▲ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

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

12.2m
6 at (40') O.C.
APPROACH SIDE ONLY

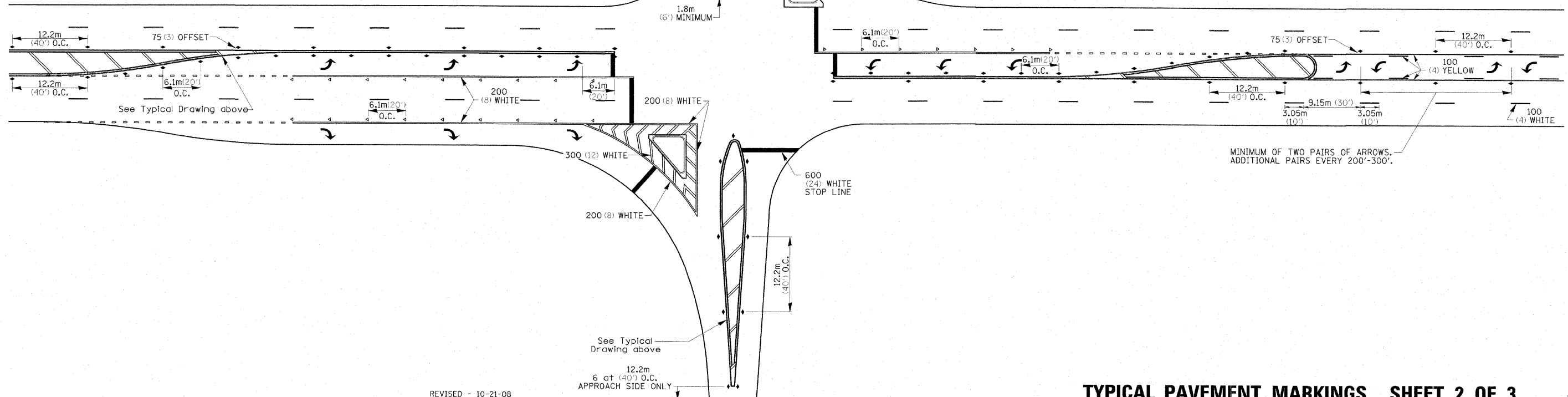
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



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.



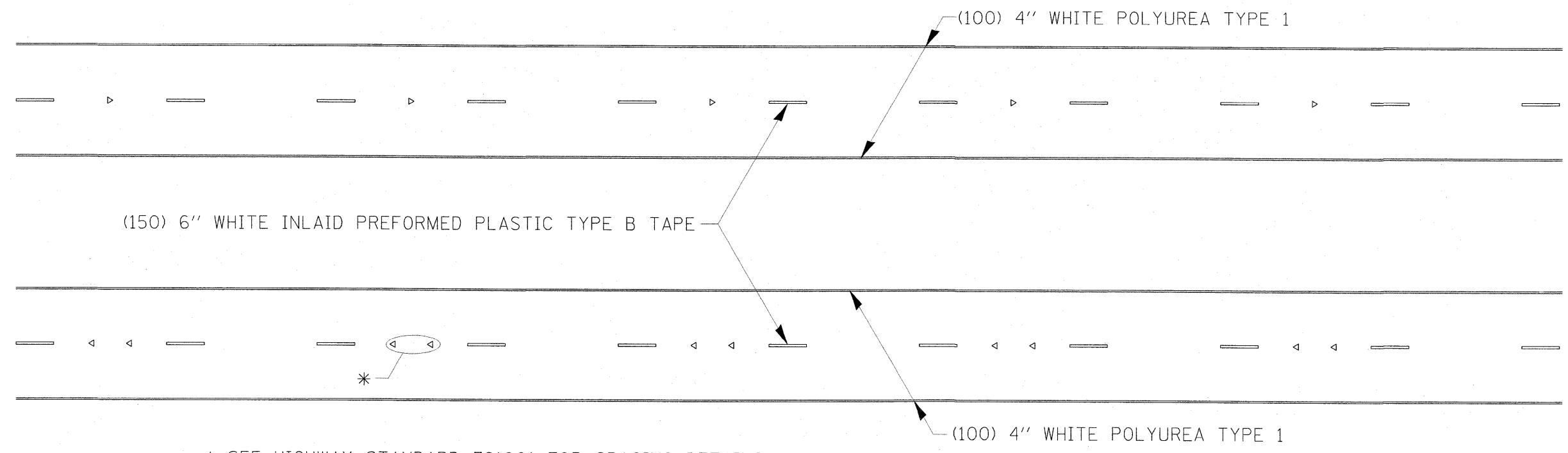
REVISED - 10-21-08

TYPICAL PAVEMENT MARKINGS SHEET 2 OF 3 41.1

FILE NAME = D264A04-shd-deta1s07.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 2 STANDARDS			F.A.P. RTE. 63B	SECTION 1298R	COUNTY HENRY	TOTAL SHEETS 42	SHEET NO. 41
PLOT SCALE = 0.0033' / IN.		DRAWN - JPC	REVISED -		SCALE: NO SCALE	SHEET NO. 7 OF 8 SHEETS	STA.	TO STA.	CONTRACT NO. 64A04			
PLOT DATE = 7/29/2009 7:17:22 AM		CHECKED - ELH	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
DATE - 07/17/09		DATE -	REVISED -									

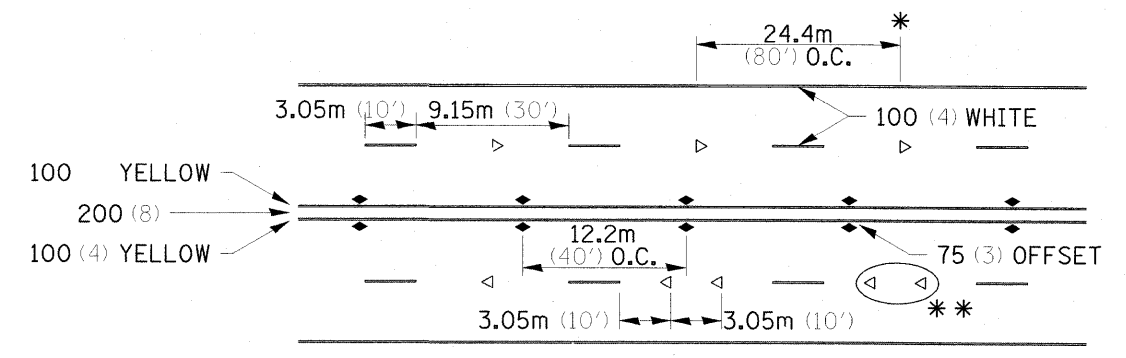


TYPICAL PAVEMENT MARKINGS



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

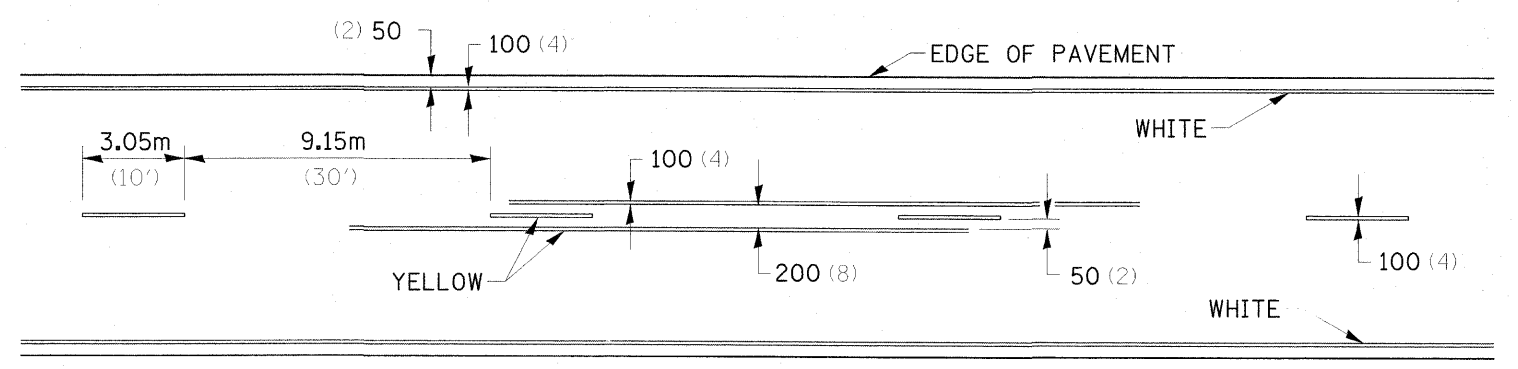
MULTI-LANE / DIVIDED



* 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 \geq 25,000

MULTI-LANE / UNDIVIDED

TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



SYMBOLS