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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

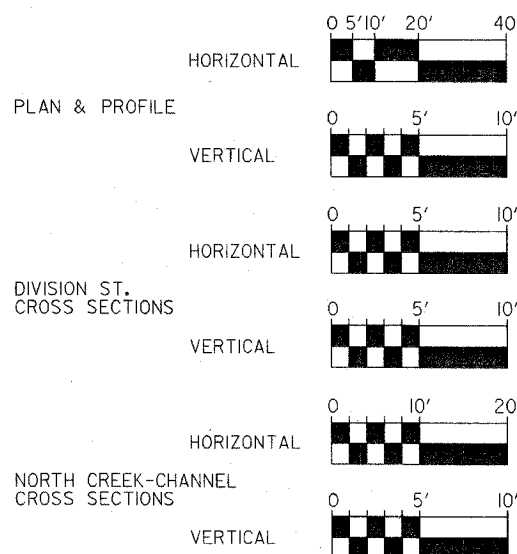
PLANS FOR PROPOSED

BRIDGE REPLACEMENT & REHABILITATION PROGRAM

STATE STANDARD DETAILS

- 000001-04 606001-02
- 280001-02 701501-03
- 420401-05 702001-05
- 515001-02 780001-01
- 602301 B.L.R. 17-3
- 604001-02 B.L.R. 21-6
- 604006-02 B.L.R. 22-4
- 604036-01

SCALES



UTILITIES

- POWER - COMMONWEALTH EDISON
- TELEPHONE - VERIZON
- GAS - NICOR
- WATER - ILLINOIS AMERICAN WATER CO.
- CABLE - MEDIACOM

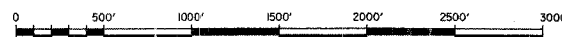
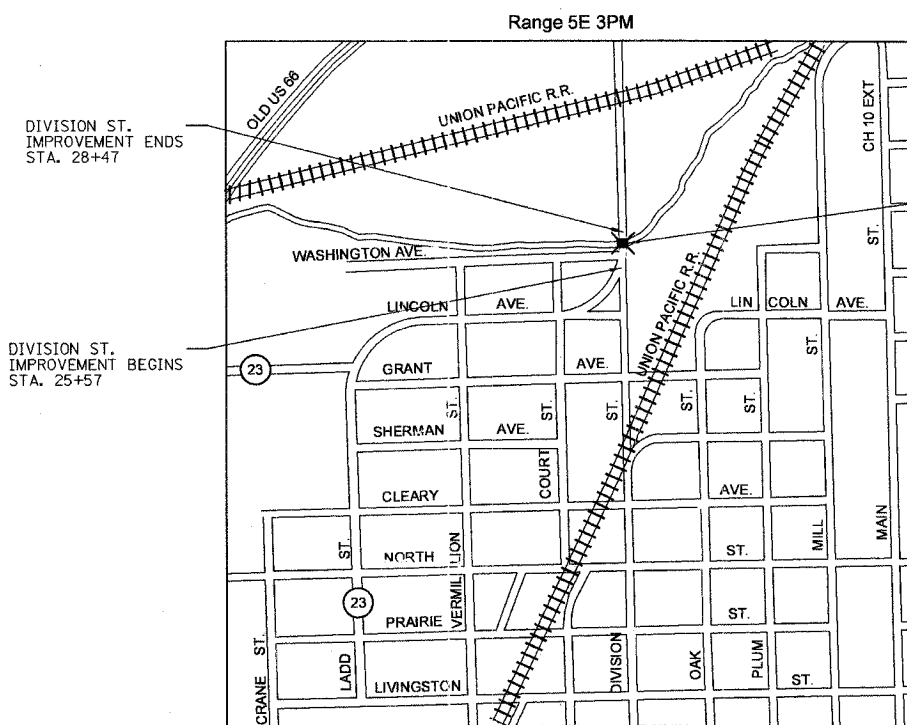
J.U.L.I.E. SYSTEM - THE TOLL FREE TELEPHONE NUMBER FOR JOINT UTILITY LOCATING INFORMATION FOR EXCAVATOR IS 1-800-892-0123.

BENCHMARKS:

- 1.) USGS Y248 1961 OLD RT66 (LINCOLN AVE.) & DITCH BRIDGE @ NE. CORNER OF BRIDGE ELEV. = 642.18.
- 2.) SET PK NAIL IN POWER POLE EAST SIDE OF DIVISION ST. ±60' NORTH OF EXISTING STRUCTURE STA. 28+75/21' RT. ELEV. = 642.33.
- 3.) TOP OF FIRE HYDRANT ON THE WEST SIDE OF DIVISION ST. @ THE SE. CORNER OF C&C AUTO WRECKING & TOWING STA. 31+35/30' LT. ELEV. = 644.23.

JOB NO. C-93-129-02
CONTRACT NO. 87238
CONSTRUCTION TYPE CODE: ROADWAY 1000
BRIDGE X021-2A

CITY OF PONTIAC, LIVINGSTON COUNTY
SECTION 02-00090-00-BR
DIVISION STREET
FEDERAL PROJECT BRM-5056 (13)



LOCATION MAP

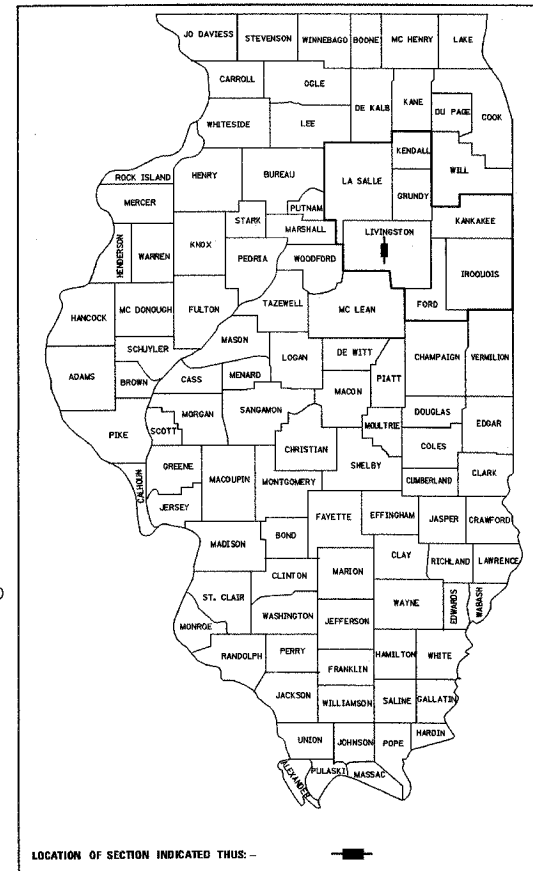
DIVISION STREET: GROSS LENGTH OF PROJECT = 290.00 FT = 0.055 MILE; NET LENGTH OF PROJECT = 290.00 FT = 0.055 MILE
TOTAL: GROSS LENGTH OF PROJECT = 290.00 FT = 0.055 MILE; NET LENGTH OF PROJECT = 290.00 FT = 0.055 MILE

PROPOSED STRUCTURE NO. 053-7105
THE PROPOSED SUPERSTRUCTURE WILL CONSIST OF A SINGLE-SPAN REINFORCED CONCRETE T-BEAM DECK THAT MEASURES 34'-0" END OF DECK TO END OF DECK AND 39'-4" OUT TO OUT. THE PROPOSED SUBSTRUCTURE WILL CONSIST OF REINFORCED CONCRETE CLOSED ABUTMENTS AND WINGWALLS EMBEDDED IN ROCK.

FUNCTIONAL CLASSIFICATION: COLLECTOR (URBAN)
DESIGN TRAFFIC: 4200 (2024)
DESIGN SPEED: 35 M.P.H.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6325	02-00090-00-BR	LIVINGSTON	31	1
STA. TO STA.				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT#				
CONTRACT NO. 87238				

C - 93-129-02



Farnsworth GROUP
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1571 fax



Mark S. Wylie Date 1/21/05
MARK S. WYLIE
ILLINOIS PROFESSIONAL ENGINEER
NO. 062-043716
EXPIRATION 11/30/05

DATE: 01-14-05

APPROVED	<i>[Signature]</i> 01/24 20 05	MAYOR
APPROVED	<i>[Signature]</i> 01/24 20 05	COUNTY ENGINEER
PASSED	MARCH 7 20 05	DISTRICT ENGINEER OF LOCAL ROADS & STREETS
APPROVED	MARCH 7 20 05	DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6325	02-00090-00-BR	LIVINGSTON	31	2
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT*		
CONTRACT NO. 87238				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITIES	BRIDGE X021-2A	ROADWAY 1000
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	38		38
20200100	EARTH EXCAVATION	CU YD	65		65
20300100	CHANNEL EXCAVATION	CU YD	1546		1546
20700110	POROUS GRANULAR EMBANKMENT	TON	1240	1240	
20800150	TRENCH BACKFILL	CU YD	29		29
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	146		146
21300010	EXPLORATION TRENCH, SPECIAL	FOOT	100		100
25000100	SEEDING, CLASS 1	ACRE	0.27	0.27	
28000400	PERIMETER EROSION BARRIER	FOOT	654		654
28100209	STONE RIPRAP, CLASS A5	TON	2170	2170	
28200200	FILTER FABRIC	SQ YD	1130	1130	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	10		10
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	81		81
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	248		248
42001300	PROTECTIVE COAT	SQ YD	320		320
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	38		38
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 6"	SQ YD	12		12
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4"	SQ FT	798		798
42400500	PORTLAND CEMENT CONCRETE SIDEWALK, SPECIAL	SQ FT	600		600
44000006	BITUMINOUS SURFACE REMOVAL 1 1/2"	SQ YD	801		801
44000100	PAVEMENT REMOVAL	SQ YD	133		133
44000500	COMBINATION CONCRETE CURB & GUTTER REMOVAL	FOOT	66		66
44002500	GUTTER OUTLET REMOVAL	EACH	2		2
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	166		166
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	
50200100	STRUCTURE EXCAVATION	CU YD	1860	1860	
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	210	210	
50202901	COFFERDAMS (LOCATION 1)	EACH	1	1	
50202902	COFFERDAMS (LOCATION 2)	EACH	1	1	
50300100	FLOOR DRAINS	EACH	2	2	
50300225	CONCRETE STRUCTURES	CU YD	253.4	253.4	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	73.4	73.4	
50300260	BRIDGE DECK GROOVING	SQ YD	95	95	
50300265	SEAL COAT CONCRETE	CU YD	66	66	
50300300	PROTECTIVE COAT	SQ YD	181	181	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	51900	51900	
51500100	NAME PLATES	EACH	1	1	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	92		92
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	34		34
550B0020	STORM SEWERS, CLASS B, TYPE 1 6"	FOOT	22		22
55100200	STORM SEWER REMOVAL 6"	FOOT	15		15
55100900	STORM SEWER REMOVAL 18"	FOOT	39		39
60228400	MANHOLE, SPECIAL	EACH	1		1
60235700	INLETS, TYPE A, TYPE 3 FRAME & GRATE	EACH	1		1
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1		1
60604400	COMBINATION CONCRETE CURB & GUTTER TYPE B-6.18	FOOT	184		184
70103700	TRAFFIC CONTROL COMPLETE	L SUM	1		1
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1160		1160
Z0002600	BAR SPLICERS	EACH	78	78	
XX000714	FENCE TO BE REMOVED AND RE-ERECTED	FOOT	25		25
XX004012	CONCRETE RAIL	FOOT	56	56	
X0323159	REMOVE & RESET EXISTING RAILING END SCROLL PIECE	EACH	4	4	
X0323553	ORNAMENTAL FENCE, WROUGHT IRON	FOOT	120		120
X3560130	BITUMINOUS CONCRETE BASE COURSE WIDENING, SUPERPAVE - 9 IN	SQ YD	38		38
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX C, N50	TON	69		69

* DENOTES SEE SPECIAL PROVISIONS

SCHEDULE OF QUANTITIES

TREE REMOVAL (OVER 15 UNITS DIAMETER) - 20100210

STATION	UNIT
28+24 56' LT	18
28+31 45' LT	20
TOTAL	38

TRENCH BACKFILL - 20800150

STATION	CU YD
26+78 23' RT	26
27+25 16' LT	3
TOTAL	29

SEEDING, CLASS 1 - 25000100

STATION	ACRE
DIVISION ST.	
25+57	28+22
NORTH CREEK - CHANNEL	
28+09.48 140' RT	27+89.79 160' LT
TOTAL	0.27

PERIMETER EROSION BARRIER - 28000400

STATION	FOOT
SOUTHWEST QUADRANT	
27+20 21' LT	27+15 51' LT
27+15 51' LT	27+56 164' LT
27+56 164' LT	27+83 165' LT
NORTHWEST QUADRANT	
27+94 126' LT	28+43 126' LT
28+43 126' LT	28+43 44' LT
28+43 44' LT	28+24 17' LT
SOUTHEAST QUADRANT	
27+42 16' RT	27+35 48' RT
27+35 48' RT	27+77 152' RT
27+77 152' RT	28+01 152' RT
NORTHEAST QUADRANT	
28+24 139' RT	28+56 122' RT
28+56 122' RT	28+46 44' RT
28+46 44' RT	28+31 16' RT
TOTAL	654

AGGREGATE SURFACE COURSE, TYPE B - 40200800

STATION	TON
DRIVE @ 27+31.66	10
TOTAL	10

BITUMINOUS MATERIALS (PRIME COAT) - 40600100

STATION	GALLON
25+57	27+43
28+37	28+47
DRIVE @ 28+51.5	3
DRIVE @ 28+54	5
TOTAL	81

BRIDGE APPROACH PAVEMENT - 42001165

STATION	SQ YD
27+43	27+73
28+07	28+37
TOTAL	248

PROTECTIVE COAT - 42001300

STATION	SQ YD
COMBINATION CONCRETE CURB & GUTTER	53
APPROACH PAVEMENT	255
DRIVE @ 27+31.66	12
TOTAL	320

BRIDGE APPROACH PAVEMENT CONNECTOR (PCC) - 42001420

STATION	SQ YD
27+37	27+43
28+37	28+43
TOTAL	38

PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 6" - 42300200

STATION	SQ YD
DRIVE @ 27+31.66	12
TOTAL	12

PORTLAND CEMENT CONCRETE SIDEWALK 4" - 42400100

STATION	SQ FT
26+10.5 54.5' RT	27+44.5 18.5' RT
27+09.5 28' LT	27+41.5 18.5' LT
TOTAL	798

PORTLAND CEMENT CONCRETE SIDEWALK, SPECIAL - 42400500

STATION	SQ FT
27+43 13.5' LT	27+73 13.5' LT
27+43 13.5' RT	27+73 13.5' RT
28+07 13.5' LT	28+37 13.5' LT
28+07 13.5' RT	28+37 13.5' RT
TOTAL	600

BITUMINOUS SURFACE REMOVAL 1 1/2" - 44000006

STATION	SQ YD
25+57	27+43
28+37	28+47
DRIVE @ 28+51.5	27
DRIVE @ 28+54	49
TOTAL	801

PAVEMENT REMOVAL - 44000100

STATION	SQ YD
27+40	27+73.33
28+07	28+40
TOTAL	133

COMBINATION CURB & GUTTER REMOVAL - 44000500

STATION	FOOT
28+14 LT&RT	28+47 LT&RT
TOTAL	66

GUTTER OUTLET REMOVAL - 44002500

STATION	EACH
28+06 12' LT	1
28+06 12' RT	1
TOTAL	2

STRIP REFLECTIVE CRACK CONTROL TREATMENT - 44300200

STATION	FOOT
26+23 10' RT	27+44 10' RT
27+05 27' LT	27+42 10' LT
TOTAL	166

STORM SEWERS, CLASS A, TYPE 1 12" - 550A0050

STATION	FOOT
27+25 16' LT	27+30 21.5' LT
26+40 26' RT	27+24 26.5' RT
TOTAL	92

STORM SEWERS, CL. A, TY 2 18" - 550A0380

STATION	FOOT
28+13 27' RT	28+46 23' RT
TOTAL	34

STORM SEWERS, CL. B, TY 1 6" - 550B0020

STATION	FOOT
28+06 107' LT	28+28 108' LT
TOTAL	22

STORM SEWER REMOVAL 6" - 55100200

STATION	FOOT
28+13 107' LT	28+28 108' LT
TOTAL	15

STORM SEWER REMOVAL 18" - 55100900

STATION	FOOT
28+08 27' RT	28+46 23' RT
TOTAL	39

MANHOLE, SPECIAL - 60228400

STATION	EACH
27+31.66 23' LT	1
TOTAL	1

INLETS, TY A, TY 3 FRAME & GRATE - 60235700

STATION	EACH
27+25 16' RT	1
TOTAL	1

INLETS, TY A, TY 8 GRATE - 60236200

STATION	EACH
26+40 26' RT	1
TOTAL	1

COMBINATION CONCRETE CURB & GUTTER, TY B-6.18 - 60604400

STATION	FOOT
26+23 12' RT	27+44 12' RT
27+07 27.5' LT	27+42 12' LT
28+37 12' RT	28+47 12' RT
28+37 12' LT	28+47 12' LT
TOTAL	184

TRAFFIC CONTROL COMPLETE - 70103700

STATION	L SUM
THROUGHOUT PROJECT	1
TOTAL	1

PAINT PAVEMENT MARKING - LINE 4" - 78001110

STATION	FOOT
25+57	28+47
WHITE EDGE LINE	580
DOUBLE YELLOW LINE	580
TOTAL	1160

FENCE TO BE REMOVED AND RE-ERECTED - XX000714

STATION	FOOT
27+28.5 56' RT	27+53.5 53.5' RT
TOTAL	25

ORNAMENTAL FENCE, WROUGHT IRON - X0323553

STATION	FOOT
27+43 19' LT	27+73 19' LT
27+43 19' RT	27+73 19' RT
28+07 19' LT	28+37 19' LT
28+07 19' RT	28+37 19' RT
TOTAL	120

BITUMINOUS CONCRETE BASE COURSE WIDENING, SUPERPAVE-9" - X3560130


STATION	SQ YD
26+23 10' RT	27+44 10' RT
27+05 27' LT	27+42 10' LT
TOTAL	38

BIT. CONCRETE SURFACE COURSE, SUPERPAVE, MIX C, N50 - X4066414

STATION	TON
25+57	27+43
28+37	28+47
DRIVE @ 28+51.5	5
DRIVE @ 28+54	4
TOTAL	69

SECTION 02-00090-00-BR
LIVINGSTON COUNTY
PONTIAC, ILLINOIS

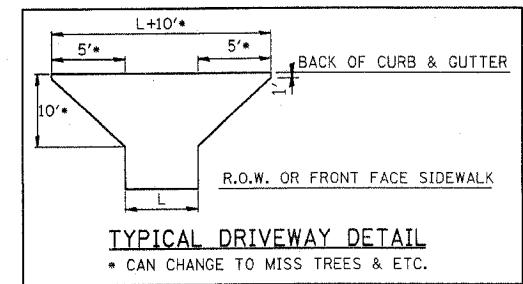
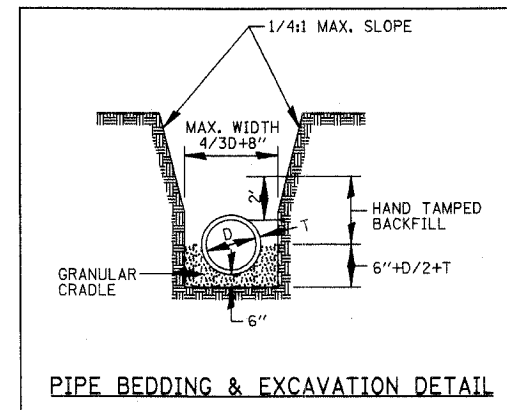
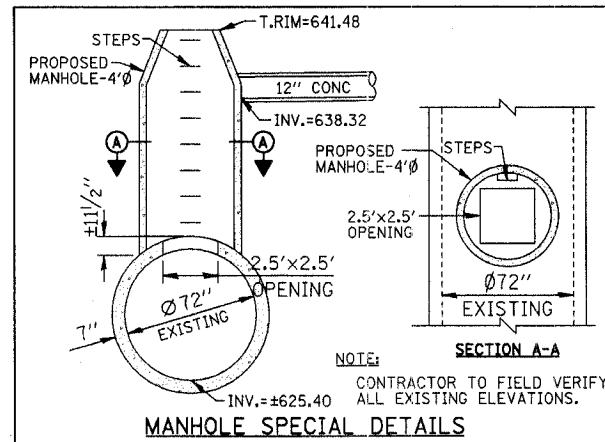
SUMMARY OF QUANTITIES AND
SCHEDULE OF QUANTITIES

DRAWN BY DMM	 <p>3700 McGraw Drive Bloomington, Illinois 61704 309/988-8436, 309/988-8871 fax</p>	FILE NO. 24-6884
DATE 01/14/05		BOOK NO. 2233
CHECKED BY MSW		SHEET NO. 2 OF 31

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6325	02-00090-00-BR	LIVINGSTON	31	3
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 87238				

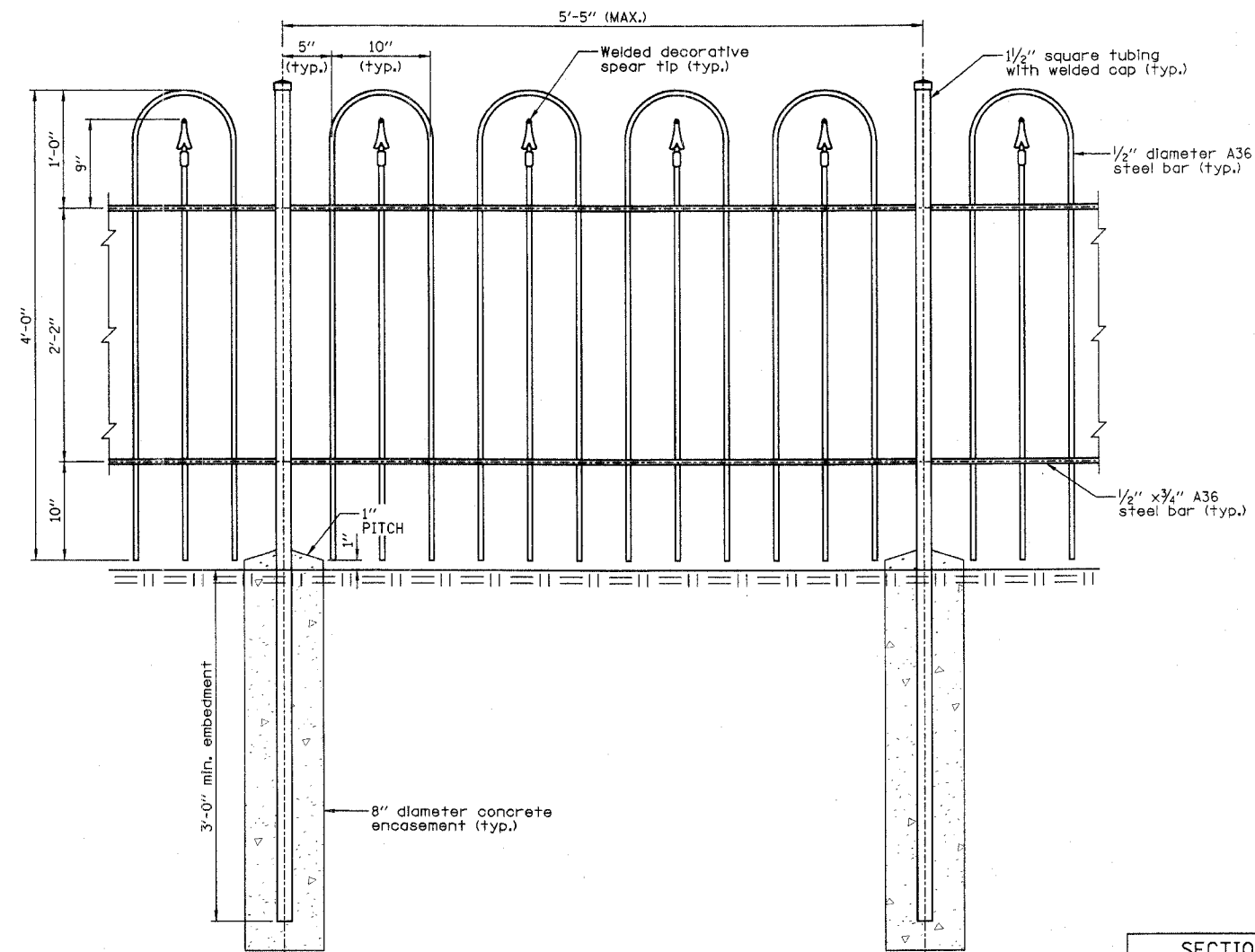
GENERAL NOTES

- ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.
- SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED SHALL BE DETERMINED BY THE ENGINEER.
- TREES SHALL BE SAVED UNLESS PERMISSION RECEIVED FROM THE RESIDENT ENGINEER. THE CONTRACTOR SHALL MEET WITH THE CITY AND RESIDENT ENGINEER PRIOR TO ANY TREE TRIMMING OR REMOVAL OPERATIONS.
- BEFORE ORDERING STORM SEWERS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS 1-800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCE NOTICE IS REQUIRED.
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO ANY STORM SEWER INSTALLATION, STRUCTURE WORK, OR ROADWAY CONSTRUCTION ACTIVITIES.
- THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS 5TH ADDITION SHALL APPLY FOR WORK IN THIS PROJECT. ALSO, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2002, WILL ALSO APPLY IN THIS PROJECT.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- PROVIDE SIDEWALK RAMPS FOR THE HANDICAPPED WHERE THERE IS BOTH SIDEWALK AND PROPOSED CURB. SEE STATE STANDARD 424001.
- SEE SHEET NO. 4 FOR TRANSIT LINE TIES.
- DEPRESSED CURB AND GUTTER SHALL BE PROVIDED AT ALL DRIVEWAYS AND SIDEWALK RAMPS FOR THE DISABLED. SEE STATE STANDARD NO. 424001-02.
- ANY ITEMS TO BE REMOVED WHICH ARE ATTACHED TO THE EXISTING STRUCTURE, I.E. GUARD RAIL, ETC., SHALL BE INCLUDED WITH THE UNIT PRICE BID FOR "REMOVAL OF EXISTING STRUCTURE".



LEGEND

PROPOSED	EXISTING
COMB. CONCRETE CURB & GUTTER TYPE B6.18	16" WATER MAIN
CURB INLET	36" SANITARY SEWER INLET
END SECTION MANHOLE	18" SS STORM SEWER INLET
STORM SEWER	UNDERGROUND TELEPHONE
SA-CSA SANITARY SEWER	G GAS MAIN
RIGHT OF WAY	G GAS VALVE
BITUMINOUS SURFACE REMOVAL 1/2"	WATER SERVICE SHUTOFF SIGN
BITUMINOUS WIDENING 2' - 9" THICK	POLE DOWN GUY
AGGREGATE DRIVEWAY, 6"	TELEPHONE POLE
BITUMINOUS DRIVEWAY	POWER POLE
CONCRETE DRIVEWAY, 6"	FENCE
P.C. CONCRETE SIDEWALK, 4"	DITCH LINE
MAIL BOX TO BE RELOCATED	IR IRON ROD
STONE RIPRAP	IP IRON PIPE
TREE TO BE REMOVED	B BUSH
WATER VALVE TO BE ADJUSTED	E EVERGREEN TREE
MANHOLE TO BE RECONSTRUCTED	T TREE W/DIA.
MANHOLE TO BE ADJUSTED	S SAPLING
14 CY TRF AMOUNT OF TRENCH BACKFILL	R.R. RAILROAD SPIKE
	W WATER VALVE
	F FIRE HYDRANT
	M MANHOLE
	R.O.W. RIGHT OF WAY
	P MAIL BOX



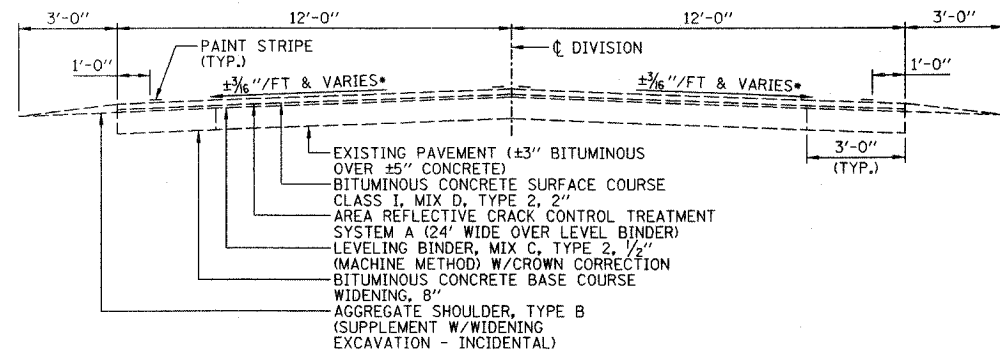
- NOTES:**
- ALL STEEL SHALL BE SHOP PAINTED WITH THE INORGANIC ZINC RICH PRIMER PER AASHTO M300, TYPE 1 IN ACCORDANCE WITH ARTICLE 1008.22.
 - 2 COAT WATERBOURNE ACRYLIC SYSTEM SHALL BE USED IN ACCORDANCE WITH ARTICLE 1008.24, FINAL COLOR TO BE SELECTED BY THE VILLAGE OF DWIGHT.

SECTION 02-00090-00-BR
 LIVINGSTON COUNTY
 PONTIAC, ILLINOIS

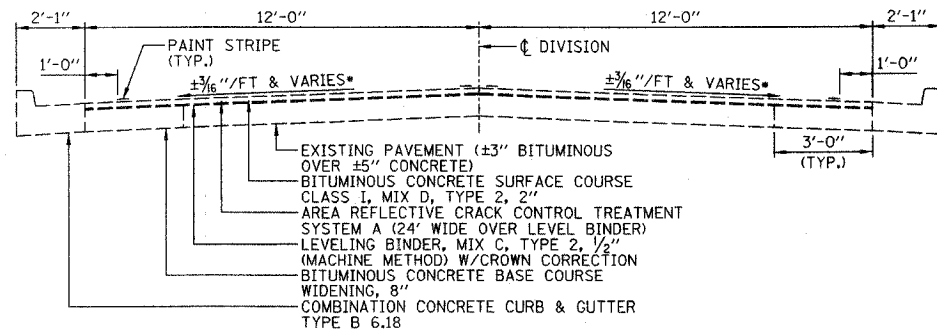
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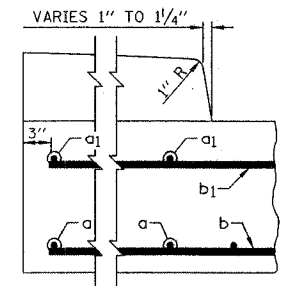
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 87238				



EXISTING TYPICAL SECTION (SOUTH OF BRIDGE)
 FROM STA. 22+51 LT/RT TO STA. 27+73.33 LT/RT & STA. 28+06 LT/RT TO STA. 28+14 LT/RT
 * PAVEMENT CROSS SLOPE VARIES THRU HORIZONTAL CURVE (SEE CURVE DATA ON THE PLAN & PROFILE FOR SUPERELEVATION)



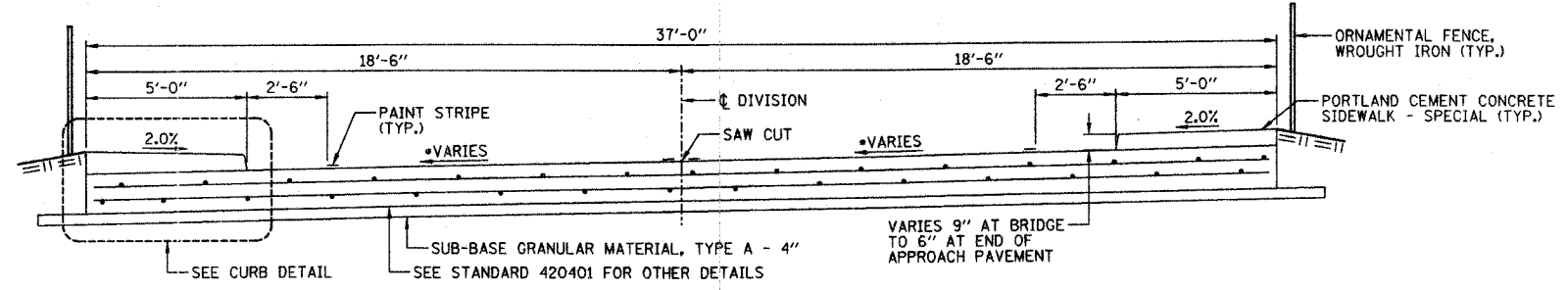
EXISTING TYPICAL SECTION (NORTH OF BRIDGE)
 FROM STA. 28+14 LT TO STA. 34+60 LT & STA. 28+14 RT TO STA. 32+88 RT
 * PAVEMENT CROSS SLOPE VARIES THRU HORIZONTAL CURVE (SEE CURVE DATA ON THE PLAN & PROFILE FOR SUPERELEVATION)



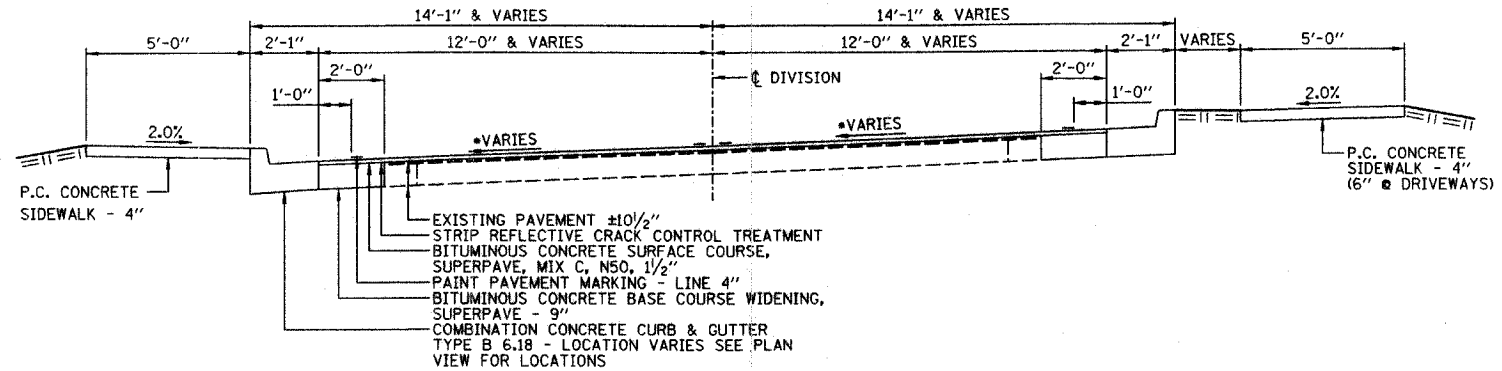
BRIDGE APPROACH PAVEMENT CURB DETAIL

	SUPERPAVE SURFACE	SUPERPAVE BASE COURSE
PG GRADE	PG64-22	PG64-22
MAX % RAP ALLOWABLE*	0%	25%
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL 12.5 OR IL 9.5	IL 19.0
FRICTION AGGREGATE	MIXTURE C	

* IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.
 ASSUMED BITUMINOUS WEIGHT = 112 LB/SQ YD-IN



PROPOSED TYPICAL SECTION BRIDGE APPROACH PAVEMENT
 FROM STA. 27+43 TO STA. 27+73 & STA. 28+07 TO STA. 28+37
 NOTE: BRIDGE FROM STA. 27+73 TO STA. 28+07
 * PAVEMENT CROSS SLOPE VARIES THRU HORIZONTAL CURVE (SEE CURVE DATA ON THE PLAN & PROFILE FOR SUPERELEVATION)



PROPOSED TYPICAL SECTION (SOUTH OF BRIDGE)
 FROM STA. 25+57 TO STA. 27+43
 * PAVEMENT CROSS SLOPE VARIES THRU HORIZONTAL CURVE (SEE PLAN VIEW FOR SUPERELEVATION DATA)

TOP OF BRIDGE APPROACH PAVEMENT ELEVATION TABLE

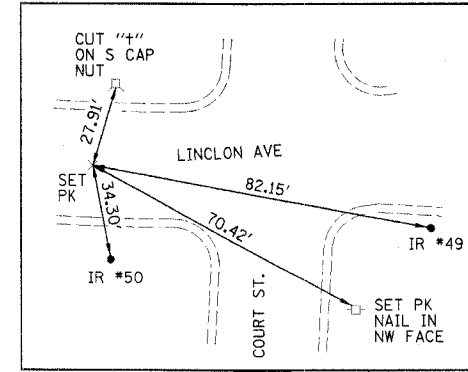
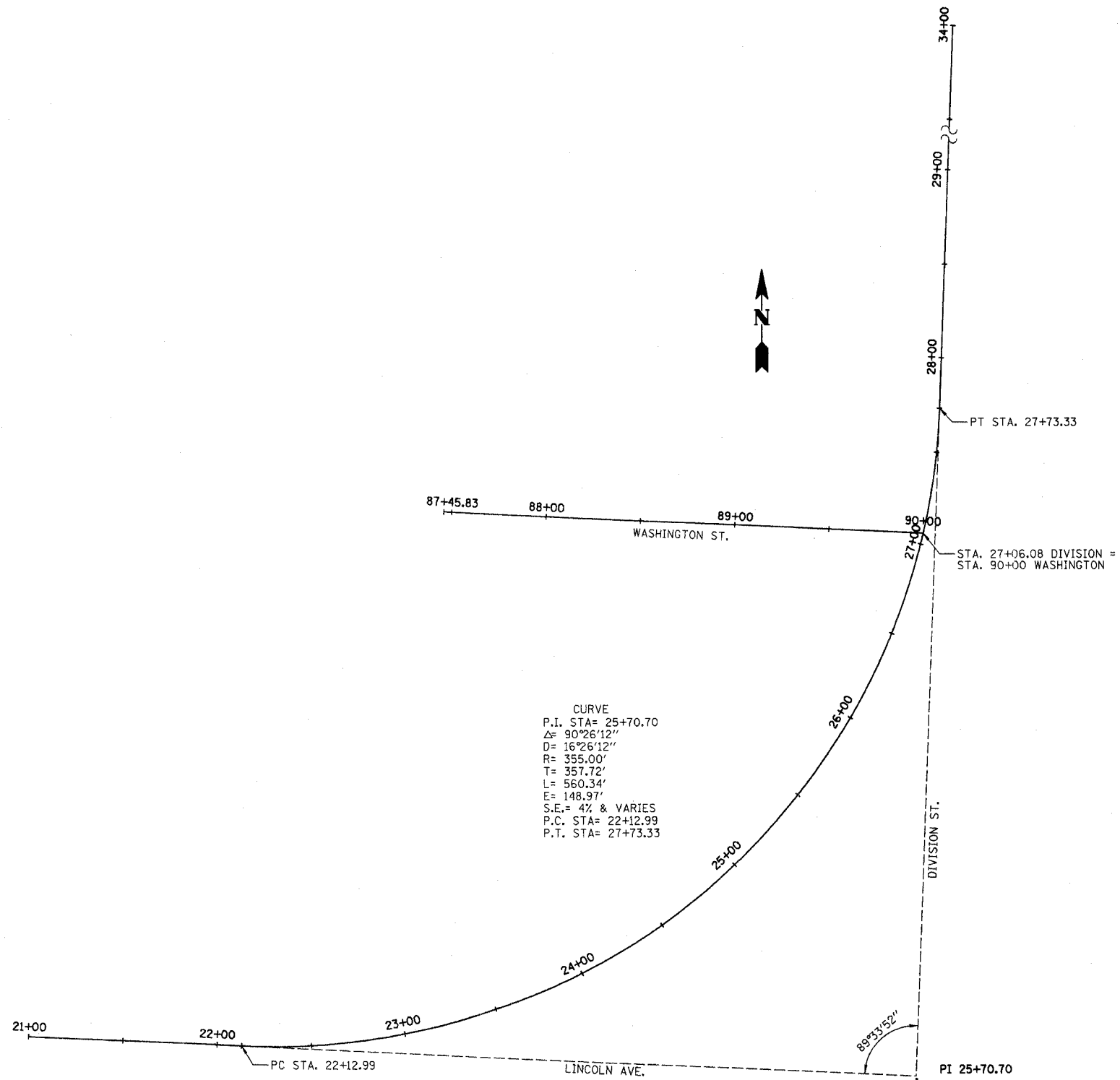
STATION	APPROACH PAVEMENT	ELEVATION 13.5' LT	ELEVATION P.G.L.	ELEVATION 13.5' RT
27+43.00	SOUTH	641.94	642.25	642.55
27+53.00	SOUTH	641.97	642.23	642.49
27+63.00	SOUTH	642.01	642.22	642.43
27+73.00	SOUTH	642.00	642.20	642.37
28+07.00	NORTH	641.95	642.16	642.15
28+17.00	NORTH	641.94	642.14	642.09
28+27.00	NORTH	641.93	642.13	642.02
28+37.00	NORTH	641.91	642.11	641.96

SECTION 02-00090-00-BR
 LIVINGSTON COUNTY
 PONTIAC, ILLINOIS

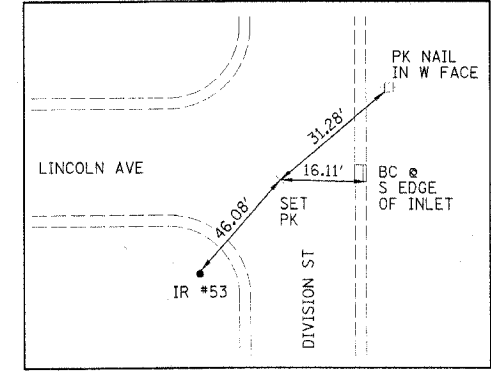
TYPICAL SECTIONS

DRAWN BY DMM	 2700 McHenry Drive Livingston, Illinois 61704 800.908-6426 309.966-8771 fax	FILE NO. 24-6884
DATE 01/14/05		BOOK NO. 2233
CHECKED BY MSW		SHEET NO. 4 OF 31

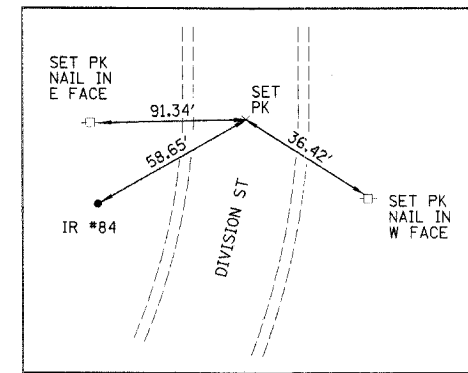
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6325	02-00090-00-BR	LIVINGSTON	31	5
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT*		
CONTRACT NO. 87238				



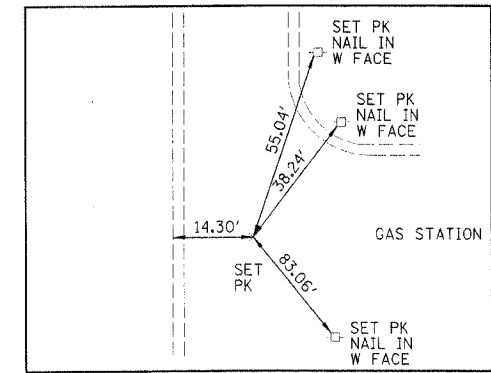
TIES TO PC
STA 22+12.99



TIES TO PI
STA 25+70.70



TIES TO PT
STA 27+73.33

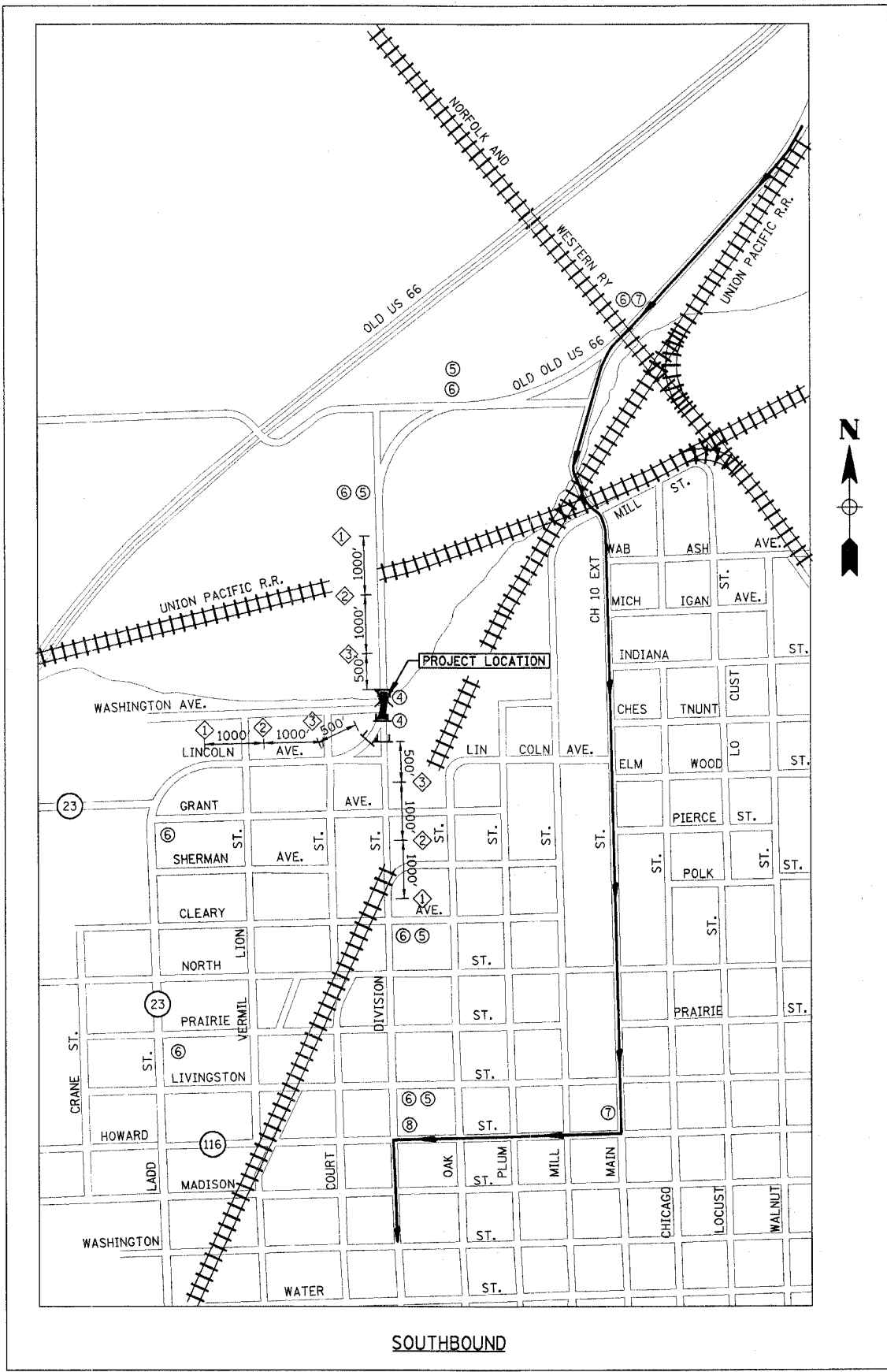
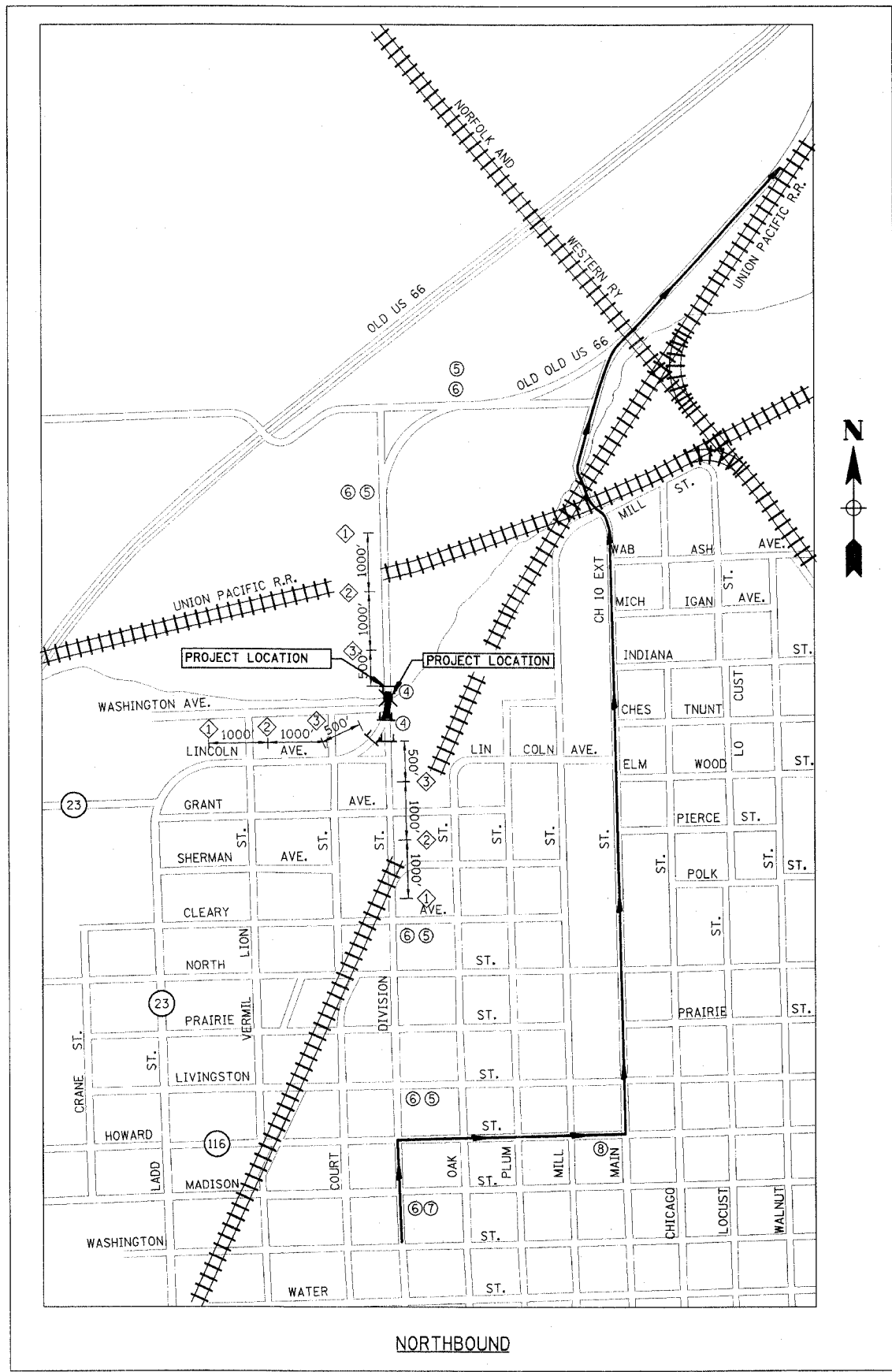
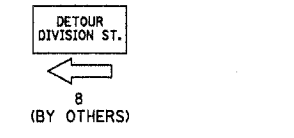
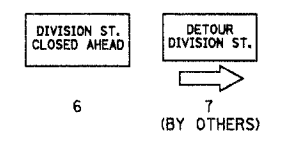
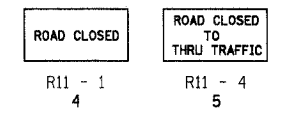
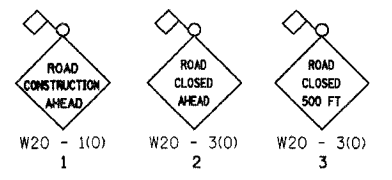
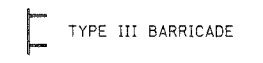


TIES TO
STA 34+00.00

SECTION 02-00090-00-BR			FILE NO.
LIVINGSTON COUNTY			24-6884
PONTIAC, ILLINOIS			BOOK NO.
TRANSIT LINE AND TIES			2233
DRAWN BY DMM		SHEET NO.	
DATE 01/14/05		5 OF 31	
CREATED BY MSW		2708 McHenry Drive Bloomington, Illinois 61704 309/908-9496 309/908-9871 fax	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6325	02-00090-00-BR	LIVINGSTON	31	6
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT*		
CONTRACT NO. 87238				

LEGEND



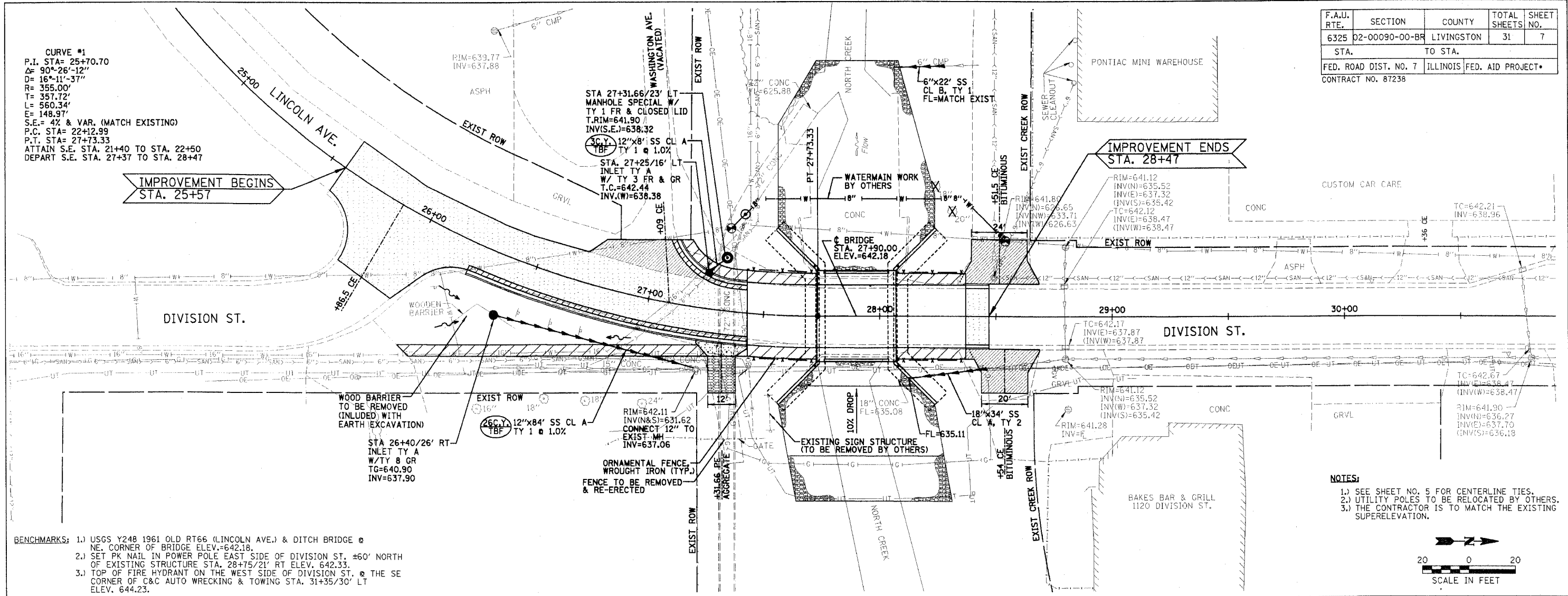
SECTION 02-00090-00-BR
LIVINGSTON COUNTY
PONTIAC, ILLINOIS

DETOUR PLANS

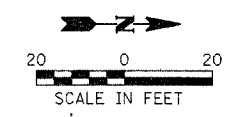
DRAWN BY DMM DATE 01/14/05 CHECKED BY MSW	Farnsworth GROUP 3700 McLaw Drive Bloomington, Illinois 61704 309/908-8488, 309/908-1071 fax	FILE NO. 24-6884 BOOK NO. 2233 SHEET NO. 6 OF 31
--	--	---

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6325	02-00090-00-BR	LIVINGSTON	31	7
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT*
CONTRACT NO. 87238				

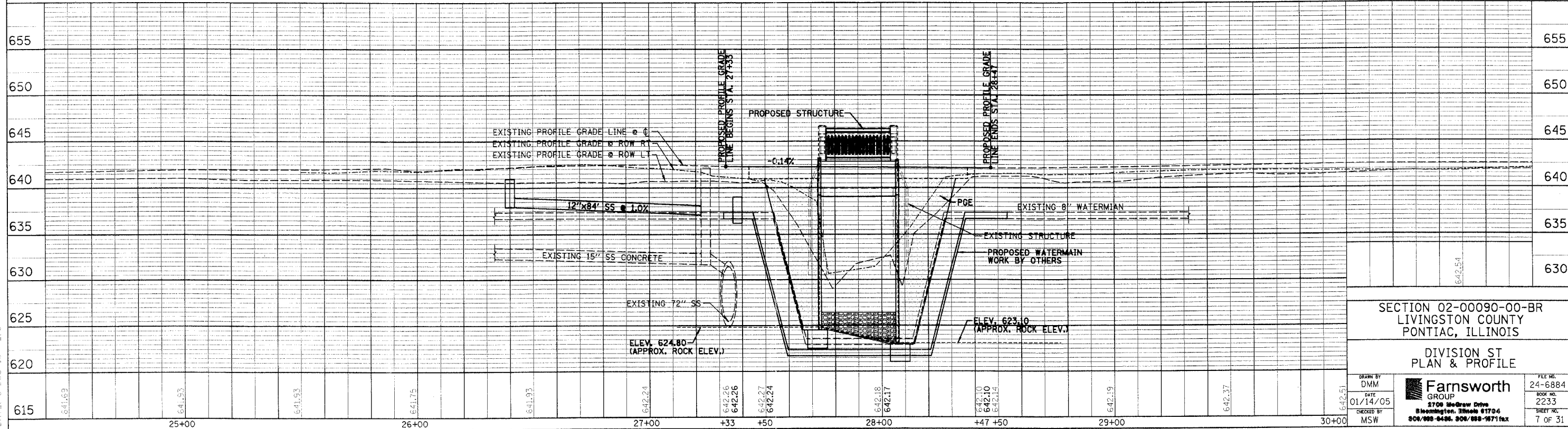
CURVE #1
P.I. STA= 25+70.70
Δ= 90°-26'-12"
D= 16°-11'-37"
R= 355.00'
T= 357.72'
L= 560.34'
E= 148.97'
S.E.= 4% & VAR. (MATCH EXISTING)
P.C. STA= 22+12.99
P.T. STA= 27+73.33
ATTAIN S.E. STA. 21+40 TO STA. 22+50
DEPART S.E. STA. 27+37 TO STA. 28+47



- NOTES:**
- 1.) SEE SHEET NO. 5 FOR CENTERLINE TIES.
 - 2.) UTILITY POLES TO BE RELOCATED BY OTHERS.
 - 3.) THE CONTRACTOR IS TO MATCH THE EXISTING SUPERELEVATION.



- BENCHMARKS:**
- 1.) USGS Y248 1961 OLD RT66 (LINCOLN AVE.) & DITCH BRIDGE @ NE CORNER OF BRIDGE ELEV.=642.18
 - 2.) SET PK NAIL IN POWER POLE EAST SIDE OF DIVISION ST. #60' NORTH OF EXISTING STRUCTURE STA. 28+75/21' RT ELEV. 642.33
 - 3.) TOP OF FIRE HYDRANT ON THE WEST SIDE OF DIVISION ST. @ THE SE CORNER OF C&C AUTO WRECKING & TOWING STA. 31+35/30' LT ELEV. 644.23.



SECTION 02-00090-00-BR
LIVINGSTON COUNTY
PONTIAC, ILLINOIS

DIVISION ST
PLAN & PROFILE

DRAWN BY: DMM
DATE: 01/14/05
CHECKED BY: MSW

Farnsworth GROUP
8708 Midway Drive
Bloomington, Illinois 61704
309/888-8486, 309/888-9711 fax

FILE NO.: 24-6884
BOOK NO.: 2233
SHEET NO.: 7 OF 31

FILE: c:\users\jg\p\popen\p.dgn
DATE: 8-Dec-05 12:10

- Benchmarks: 1.) USGS Y248 1961 Old Rte. 66 (Lincoln Ave.) & Ditch Bridge @ N.E. corner of bridge Elevation = 642.18.
 2.) Set PK Nail in power pole East side of Division St. ±60' North of existing structure Station 28+75/21' Rt. Elevation = 642.33.
 3.) Top of fire hydrant on the West side of Division St. @ the S.E. corner of C & C Auto Wrecking & Towing Sta. 31+35/30' Lt. Elevation = 644.23.

Existing Structure: Structure Number 053-0073, built in 1926 and carries F.A.U. 6325 (Division Street) over North Creek. Consist of a 30'-0" single span reinforced concrete T-Beam deck (6-Beams) and a Bituminous Concrete Wearing Surface on two reinforced concrete closed abutments supported by spread footings. The slab thickness is 6". The structure is not skewed to the roadway and is approximately 34'-6" out to out and 33'-0" back to back of abutments. The existing end posts shall be salvaged and reincorporated into the proposed bridge, otherwise the existing structure has no salvage value.

DESIGN SPECIFICATIONS

AASHTO 2002

LOADING HS20-44

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

DESIGN STRESSES

CAST IN PLACE CONCRETE (FIELD UNITS)

$f'_c = 4,000$ psi
 $f_y = 60,000$ psi (Reinforcement)

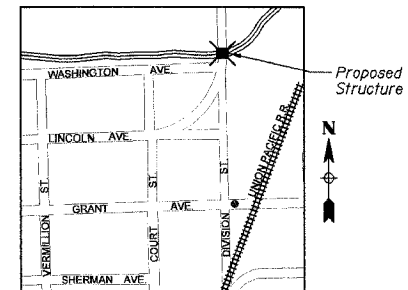
SEISMIC DATA

Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.043
 Site Coefficient (S) = 1.0

HORIZONTAL CURVE DATA

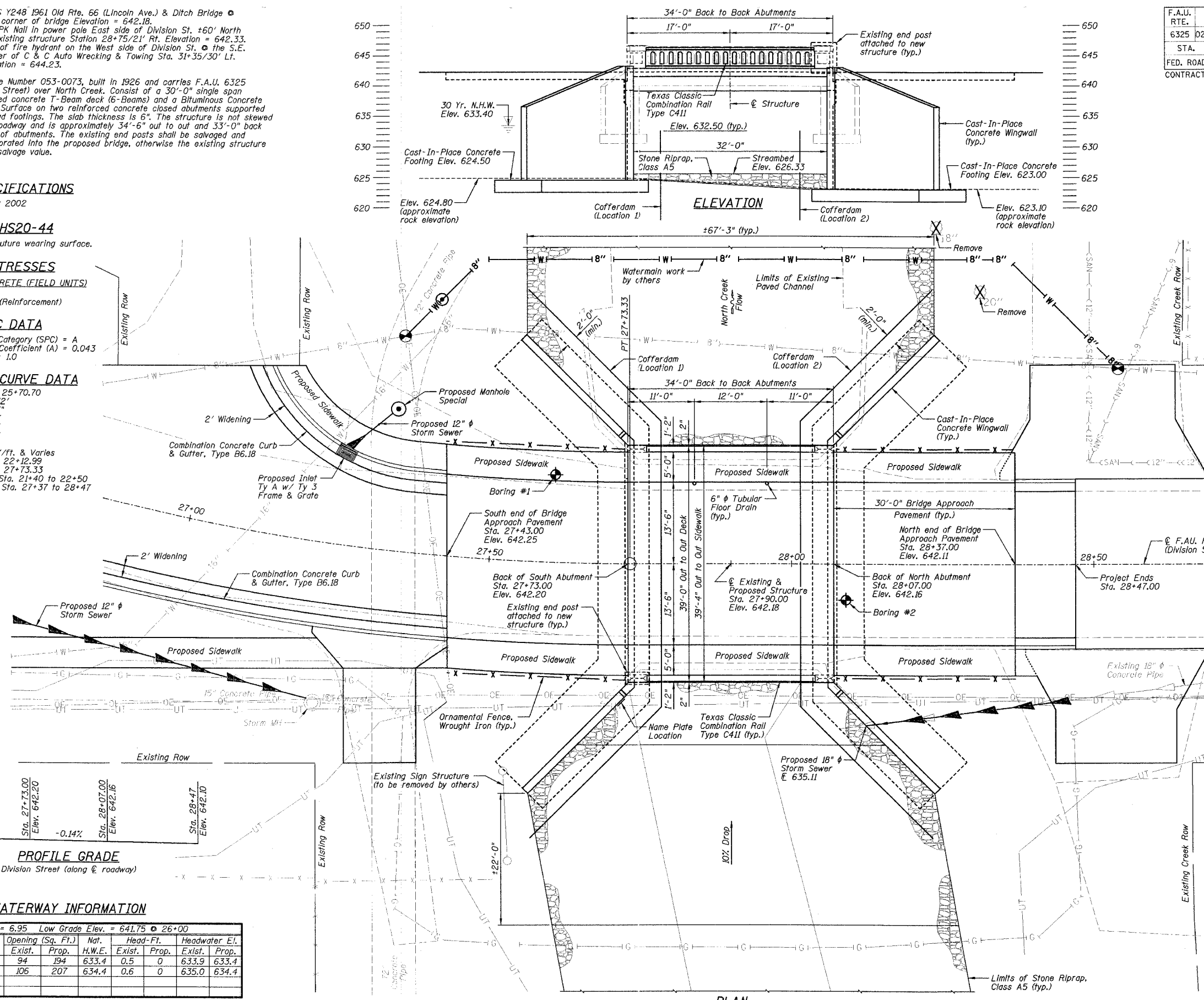
P.I. STA. = 25+70.70
 $\Delta = 90^\circ 26' 12''$
 $D = 16' 11' 37''$
 $R = 355.00'$
 $T = 357.72'$
 $L = 560.34'$
 $E = 148.97'$
 S.E. = 0.04'/ft. & Varies
 P.C. STA. = 22+12.99
 P.T. STA. = 27+73.33
 Attain S.E. Sta. 21+40 to 22+50
 Depart S.E. Sta. 27+37 to 28+47

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. B1 OF 18 SHEETS
6325	02-00090-00-BR	LIVINGSTON	31	8	
STA.	TO STA.		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		
CONTRACT NO. 87238					



INDEX TO SHEETS

SHEET NO.	TITLE
B1	GENERAL PLAN AND ELEVATION
B2	CHANNEL EXCAVATION PLAN, GENERAL NOTES AND TOTAL BILL OF MATERIALS
B3	STONE RIPRAP LAYOUT PLAN
B4	BAR SPLICER ASSEMBLY DETAILS
B5	ELEVATION LOCATIONS AND DEAD LOAD DEFLECTION DIAGRAM
B6	TOP OF SLAB ELEVATIONS
B7	SUPERSTRUCTURE DECK
B8	SUPERSTRUCTURE CROSS SECTION, GIRDER ELEVATION & TYPICAL DETAIL AND FLOOR DRAIN DETAILS
B9	END DIAPHRAGM ELEVATION AND SECTIONS
B10	RAILING ELEVATION, SECTIONS AND DETAILS
B11	SOUTH ABUTMENT
B12	SOUTH ABUTMENT WINGWALL DETAILS AND BILL OF MATERIALS
B13	NORTH ABUTMENT
B14	NORTH ABUTMENT WINGWALL DETAILS AND BILL OF MATERIALS
B15-B16	BORING LOGS
B17-B18	EXISTING PLANS



PROFILE GRADE
 Division Street (along & roadway)

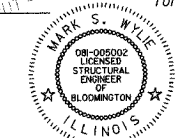
Sta. 27+33	Elev. 642.26	
Sta. 27+73.00	Elev. 642.20	-0.14%
Sta. 28+07.00	Elev. 642.16	
Sta. 28+47	Elev. 642.10	

WATERWAY INFORMATION

Drainage Area (Sq. Mi.) = 6.95 Low Grade Elev. = 641.75 @ 26+00

Flood Year	Q C.F.S.	Q Opening (Sq. Ft.)	Nat. H.W.E.	Head-Ft. Exist.	Head-Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.		
Design	30	970	94	194	633.4	0.5	0	633.9	633.4
Base	100	1153	106	207	634.4	0.6	0	635.0	634.4
Overtopping Max. Freq.									

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



Mark S. Wylie Date 1/21/05
 MARK S. WYLIE
 ILLINOIS STRUCTURAL ENGINEER
 NO. 081-005002
 Exp. Date 11/30/06

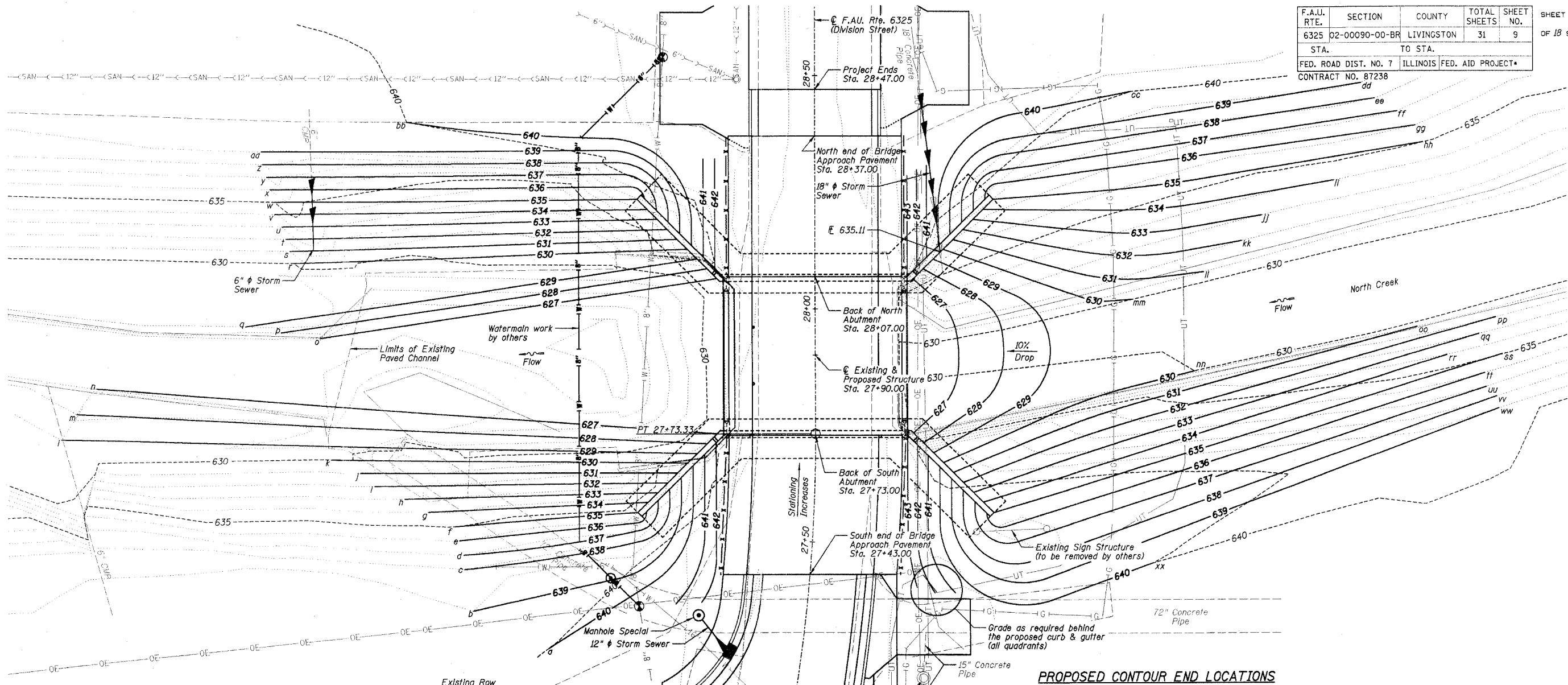
SECTION 02-00090-00-BR
 LIVINGSTON COUNTY
 PONTIAC, ILLINOIS

GENERAL PLAN AND ELEVATION

DESIGNED BY J.M.L.	Farnsworth GROUP 2700 Midway Drive Bloomington, Illinois 61704 309/530-9426 309/530-1871 fax	FILE NO. 24-6884
DRAWN BY D.J.M.		DATE 01-14-05
CHECKED BY M.S.W.		SHEET NO. 8 OF 31

PLAN

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 22 OF 18 SHEETS
6325	02-00090-00-BR	LIVINGSTON	31	9	
STA.	TO STA.				
FED. ROAD DIST. NO. 7	ILLINOIS FED. AID PROJECT				
CONTRACT NO. 87238					



GENERAL NOTES

- 1.) Reinforcement bars shall conform to the requirements of AASHTO M31, M42 or M53 Grade 60.
- 2.) Layout of slope protection system may be varied in the field to suit the ground conditions as directed by the Engineer.
- 3.) Backfill shall be placed behind the abutments after the superstructure has been poured and the falsework removed (see "Typical Section Thru Abutment" on Sheet B3 for maximum backfill elevation before superstructure is in place). See Article 502.10 of the Standard Specifications.
- 4.) The back face of Closed Abutments and their wingwalls shall be waterproofed according to Article 503.18 of the Standard Specifications.
- 5.) The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework. In addition to allowance for dead load deflection.
- 6.) All construction joints shall be bonded.
- 7.) Excavation behind the existing abutment walls shall be done before removing the existing superstructure.
- 8.) The Contractor is to field locate all utilities before starting construction.
- 9.) Cast in place Class SI Concrete shall be used throughout except for the superstructure (Deck and T-Beams). The 14 day compressive strength is $f'c = 4000$ psi. Concrete clear cover shall be 2" unless otherwise shown.
- 10.) The concrete slab shall be finished in accordance with Article 503.17 of the Standard Specifications and shall be poured monolithically with the T-Beams in one continuous operation. For field data see Farnsworth Group Field Book 2233.
- 11.) It shall be the responsibility of the Contractor to divert the creek flow during construction in order to keep the construction areas free of water. The method of water diversion shall be subject to the approval of the engineer.
- 12.) The Contractor shall remove all of the existing paved channel concrete and the cost of removal shall be included with the cost of "Removal of Existing Structures".
- 13.) The Cofferdams shall be designed and constructed in accordance with Article 502.06 of the Standard Specifications. The Contractor shall pull all cofferdam sheet piling.
- 14.) Existing Plans are provided for information use only.
- 15.) All reinforcement bars shall be epoxy coated.
- 16.) E.F. denotes Each Face
F.F. denotes Front Face
B.F. denotes Back Face

TOTAL BILL OF MATERIALS

ITEM	UNITS	TOTAL
Porous Granular Embankment	Ton	1240
Stone Riprap, Class A5	Ton	2170
Filter Fabric For Use With Riprap	Sq Yd	1130
Removal of Existing Structures	Each	1
Structure Excavation	Cu Yd	1860
Rock Excavation For Structures	Cu Yd	210
Cofferdam (Location 1)	Each	1
Cofferdam (Location 2)	Each	1
Floor Drains	Each	2
Concrete Structures	Cu Yd	253.4
Concrete Superstructure	Cu Yd	73.4
Bridge Deck Grooving	Sq Yd	95
Seal Coat Concrete	Cu Yd	66
Protective Coat	Sq Yd	181
Reinforcement Bars, Epoxy Coated	Pound	51900
Name Plates	Each	1
Bar Splicers	Each	78
Concrete Roll	Foot	56
Remove & Reset Existing Rolling End Scroll Pieces	Each	4

*Denotes See Special Provision.

PROPOSED CONTOUR END LOCATIONS

LOCATION	ELEVATION	STATION	OFFSET	LOCATION	ELEVATION	STATION	OFFSET
a	640	27+19	54' LT	z	638	28+31	118' LT
b	639	27+26	71' LT	aa	639	28+34	118' LT
c	638	27+37	74' LT	bb	640	28+40	87' LT
d	637	27+40	74' LT	cc	640	28+47	68' RT
e	636	27+44	75' LT	dd	639	28+48	117' RT
f	635	27+48	77' LT	ee	638	28+45	120' RT
g	634	27+51	82' LT	ff	637	28+42	125' RT
h	633	27+55	88' LT	gg	636	28+39	128' RT
i	632	27+58	94' LT	hh	635	28+35	130' RT
j	631	27+62	97' LT	ii	634	28+28	111' RT
k	630	27+65	104' LT	jj	633	28+20	95' RT
l	629	27+71	161' LT	kk	632	28+15	91' RT
m	628	27+77	158' LT	ll	631	28+08	83' RT
n	627	27+83	154' LT	mm	630	28+02	68' RT
o	627	27+94	106' LT	nn	630	27+87	81' RT
p	628	27+95	114' LT	oo	631	27+96	129' RT
q	629	27+96	122' LT	pp	632	27+98	146' RT
r	630	28+10	112' LT	qq	633	27+94	142' RT
s	631	28+13	112' LT	rr	634	27+90	135' RT
t	632	28+15	113' LT	ss	635	27+90	147' RT
u	633	28+18	114' LT	tt	636	27+86	143' RT
v	634	28+20	115' LT	uu	637	27+83	143' RT
w	635	28+23	116' LT	vv	638	27+81	146' RT
x	636	28+26	117' LT	ww	639	27+79	146' RT
y	637	28+28	117' LT	xx	640	27+50	73' RT

Notes: Stations and offsets for the proposed contour end locations are from the roadway centerline.

NORTH CREEK
BUILT 200... BY
LIVINGSTON COUNTY & CITY OF PONTIAC
SEC. 02-00090-00-BR
ROUTE F.A.U. 6325 STATION 27+90.00
F.A. PROJ. BRM-5056 (13)
STR. NO. 053-7105 LOADING HS20

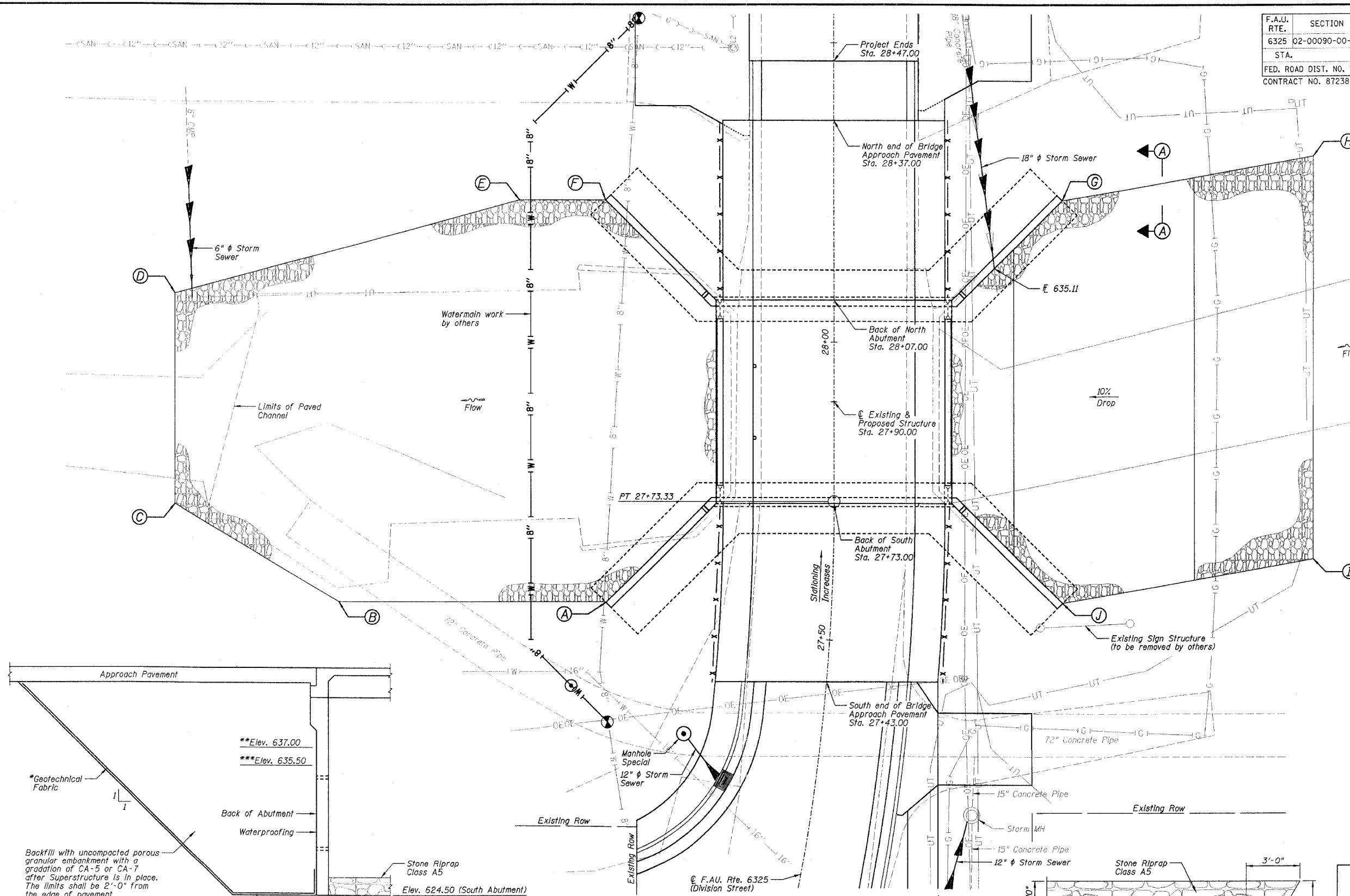
NAME PLATE DETAIL
See Standard 515001

- NOTES:**
- 1.) See Channel Cross Sections on Sheets 29-31.
 - 2.) Contractor to field locate all utilities before starting channel excavation.

**SECTION 02-00090-00-BR
LIVINGSTON COUNTY
PONTIAC, ILLINOIS
CHANNEL EXCAVATION PLAN,
GENERAL NOTES AND
TOTAL BILL OF MATERIALS**

DESIGNED BY J.M.L.	<p>Farnsworth GROUP 2709 McGraw Drive Bloomington, Illinois 61704 309.439-6166 309.439-6711 fax</p>	FILE NO. 24-6884
DRAWN BY D.J.M.		DATE 01-14-05
CHECKED BY M.S.W.		SHEET NO. 9 of 31

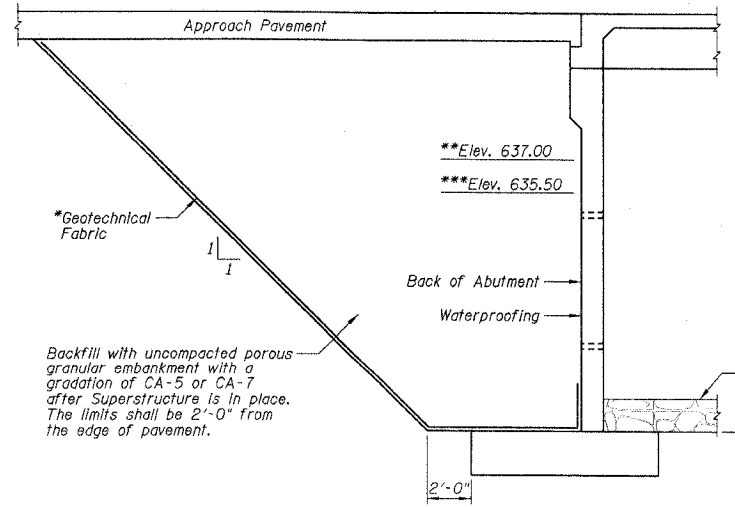
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. B3 OF 18 SHEETS
6325	02-00090-00-BR	LIVINGSTON	31	10	
STA.	TO STA.				
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT*			
CONTRACT NO. 87238					



STONE RIPRAP LOCATION

Location	Station	Offset Distance
A	27+54	38' LT
B	27+51	82' LT
C	27+73	110' LT
D	28+08	110' LT
E	28+24	52' LT
F	28+24	38' LT
G	28+24	38' RT
H	28+31	80' RT
I	27+66	80' RT
J	27+58	38' RT

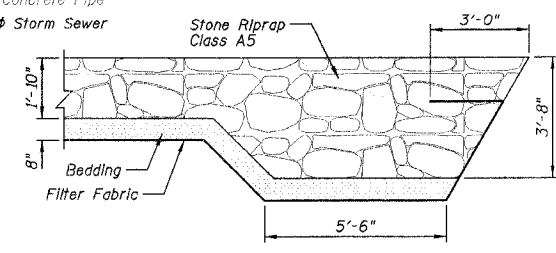
Note: Stations and offsets for the Stone Riprap Class A5 are from the roadway centerline.



TYPICAL SECTION THRU ABUTMENT

- *Included in the cost of "Porous Granular Embankment".
- **Maximum backfill elevation without Superstructure in place (South Abutment).
- ***Maximum backfill elevation without Superstructure in place (North Abutment).

STONE RIPRAP LAYOUT PLAN

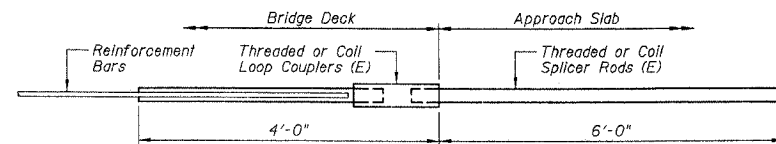


SECTION A-A

**SECTION 02-00090-00-BR
LIVINGSTON COUNTY
PONTIAC, ILLINOIS**

STONE RIPRAP LAYOUT PLAN

DESIGNED BY J.M.L.	<p>2708 McGraw Drive Bloomington, Illinois 61704 309.888-6455, 309.888-1571 fax</p>	FILE NO. 24-6884
DRAWN BY D.J.M.		DATE 01-14-05
CHECKED BY M.S.W.		SHEET NO. 10 of 31



SPLICER DETAIL

BAR SPLICER FOR #5 BAR
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
Total No. Required = 78

Note: 39 bar splicers each end of deck.

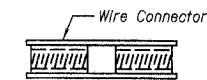
The diameter of this part is the same as the diameter of the bar spliced.

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

ROLLED THREAD DOWEL BAR



** ONE PIECE



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

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

NOTES:

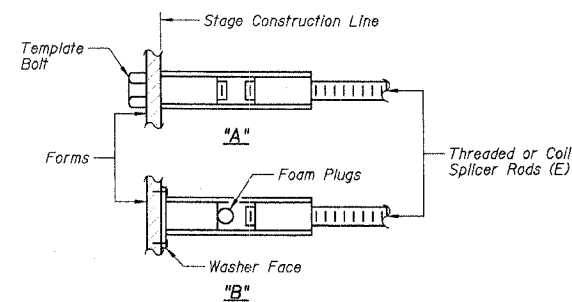
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
 All reinforcement bars shall be lapped and tied to the 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 (Tension in kips) = $1.25 \times f_y \times A_t$
- ② Minimum *Pull-out Strength (Tension in kips) = $1.25 \times f_{s_{allow}} \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 $f_{s_{allow}}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
 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	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



INSTALLATION AND SETTING METHODS

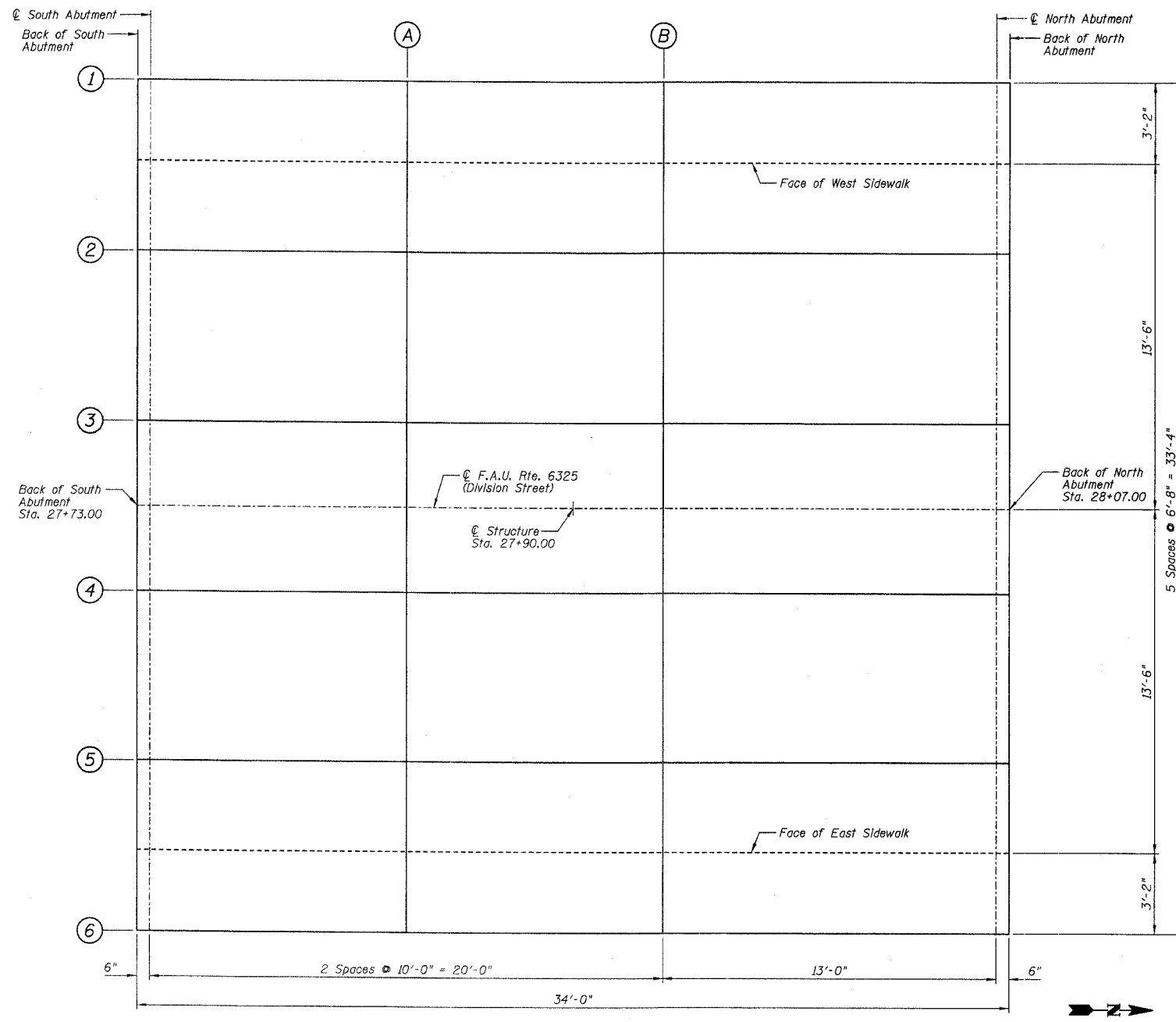
"A": Set bar splicer assembly by means of a template bolt.
 "B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E): Indicates epoxy coating.

SECTION 02-00090-00-BR
 LIVINGSTON COUNTY
 PONTIAC, ILLINOIS

BAR SPLICER ASSEMBLY DETAILS

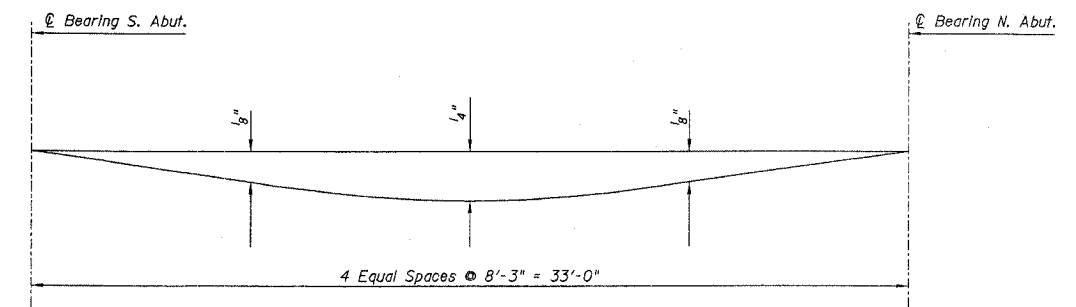
DESIGNED BY J.M.L.	 2700 McGraw Drive Bloomington, Illinois 61704 309/846-8436, 309/846-1871 fax	FILE NO. 24-6884
DRAWN BY D.J.M.		DATE 01-14-05
CHECKED BY M.S.W.		SHEET NO. 11 of 31

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. B5 OF 18 SHEETS
6325	02-00090-00-BR	LIVINGSTON	31	12	
STA.	TO STA.				
FED. ROAD DIST. NO. 7	ILLINOIS FED. AID PROJECT*				
CONTRACT NO. 87238					



PLAN

R ₀	(k)	18.0
R _s P	(k)	10.7
R _t	(k)	28.9
R (Imp.)	(k)	8.7
R Total	(k)	66.3



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only)

- Notes: 1.) The above deflections are not to be used in the field if the Engineer is working from the theoretical grade elevations adjusted for dead load deflections as shown on Sheet B6.
2.) For elevations, see Sheet B6. Work this sheet with Sheets B6 thru B8.

SECTION 02-00090-00-BR
LIVINGSTON COUNTY
PONTIAC, ILLINOIS

ELEVATION LOCATIONS AND
DEAD LOAD DEFLECTION DIAGRAM

DESIGNED BY J.M.L.	Farnsworth GROUP 2700 McGraw Drive Bloomington, Illinois 61704 309/439-8635, 309/882-1871 fax	FILE NO. 24-6884
DRAWN BY D.J.M.		DATE 01-14-05
CHECKED BY M.S.W.		SHEET NO. 12 OF 31

Girder 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Back of South Abut.	27+72.953	-16.667	642.108	642.108
☉ South Abut.	27+73.500	-16.667	642.107	642.107
A	27+83.500	-16.667	642.093	642.107
B	27+93.500	-16.667	642.079	642.095
☉ North Abut.	28+06.500	-16.667	642.061	642.061
Back of North Abut.	28+07.000	-16.667	642.060	642.060

Girder 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Back of South Abut.	27+72.991	-3.333	642.154	642.154
☉ South Abut.	27+73.500	-3.333	642.153	642.153
A	27+83.500	-3.333	642.139	642.153
B	27+93.500	-3.333	642.125	642.141
☉ North Abut.	28+06.500	-3.333	642.107	642.107
Back of North Abut.	28+07.000	-3.333	642.106	642.106

Girder 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Back of South Abut.	27+73.026	10.000	642.323	642.323
☉ South Abut.	27+73.500	10.000	642.321	642.321
A	27+83.500	10.000	642.270	642.284
B	27+93.500	10.000	642.220	642.236
☉ North Abut.	28+06.500	10.000	642.154	642.154
Back of North Abut.	28+07.000	10.000	642.152	642.152

Face of West Sidewalk

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Back of South Abut.	27+72.988	-13.500	642.001	642.001
☉ South Abut.	27+73.500	-13.500	642.000	642.000
A	27+83.500	-13.500	641.986	642.000
B	27+93.500	-13.500	641.972	641.988
☉ North Abut.	28+06.500	-13.500	641.954	641.954
Back of North Abut.	28+07.000	-13.500	641.953	641.953

Centerline - F.A.U. Rte. 6325 (Division Street) & Profile Grade Line

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Back of South Abut.	27+73.000	0.000	642.204	642.204
☉ South Abut.	27+73.500	0.000	642.203	642.203
A	27+83.500	0.000	642.189	642.203
B	27+93.500	0.000	642.175	642.191
☉ North Abut.	28+06.500	0.000	642.157	642.157
Back of North Abut.	28+07.000	0.000	642.156	642.156

Face of East Sidewalk

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Back of South Abut.	27+73.012	13.500	642.365	642.365
☉ South Abut.	27+73.500	13.500	642.362	642.362
A	27+83.500	13.500	642.299	642.313
B	27+93.500	13.500	642.235	642.251
☉ North Abut.	28+06.500	13.500	642.153	642.153
Back of North Abut.	28+07.000	13.500	642.150	642.150

Girder 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Back of South Abut.	27+72.973	-10.000	642.054	642.054
☉ South Abut.	27+73.500	-10.000	642.053	642.053
A	27+83.500	-10.000	642.039	642.053
B	27+93.500	-10.000	642.025	642.041
☉ North Abut.	28+06.500	-10.000	642.007	642.007
Back of North Abut.	28+07.000	-10.000	642.006	642.006

Girder 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Back of South Abut.	27+73.009	3.333	642.244	642.244
☉ South Abut.	27+73.500	3.333	642.242	642.242
A	27+83.500	3.333	642.216	642.230
B	27+93.500	3.333	642.190	642.206
☉ North Abut.	28+06.500	3.333	642.156	642.156
Back of North Abut.	28+07.000	3.333	642.155	642.155

Girder 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Back of South Abut.	27+73.043	16.667	642.472	642.472
☉ South Abut.	27+73.500	16.667	642.469	642.469
A	27+83.500	16.667	642.406	642.420
B	27+93.500	16.667	642.342	642.358
☉ North Abut.	28+06.500	16.667	642.260	642.260
Back of North Abut.	28+07.000	16.667	642.257	642.257

SECTION 02-00090-00-BR
LIVINGSTON COUNTY
PONTIAC, ILLINOIS

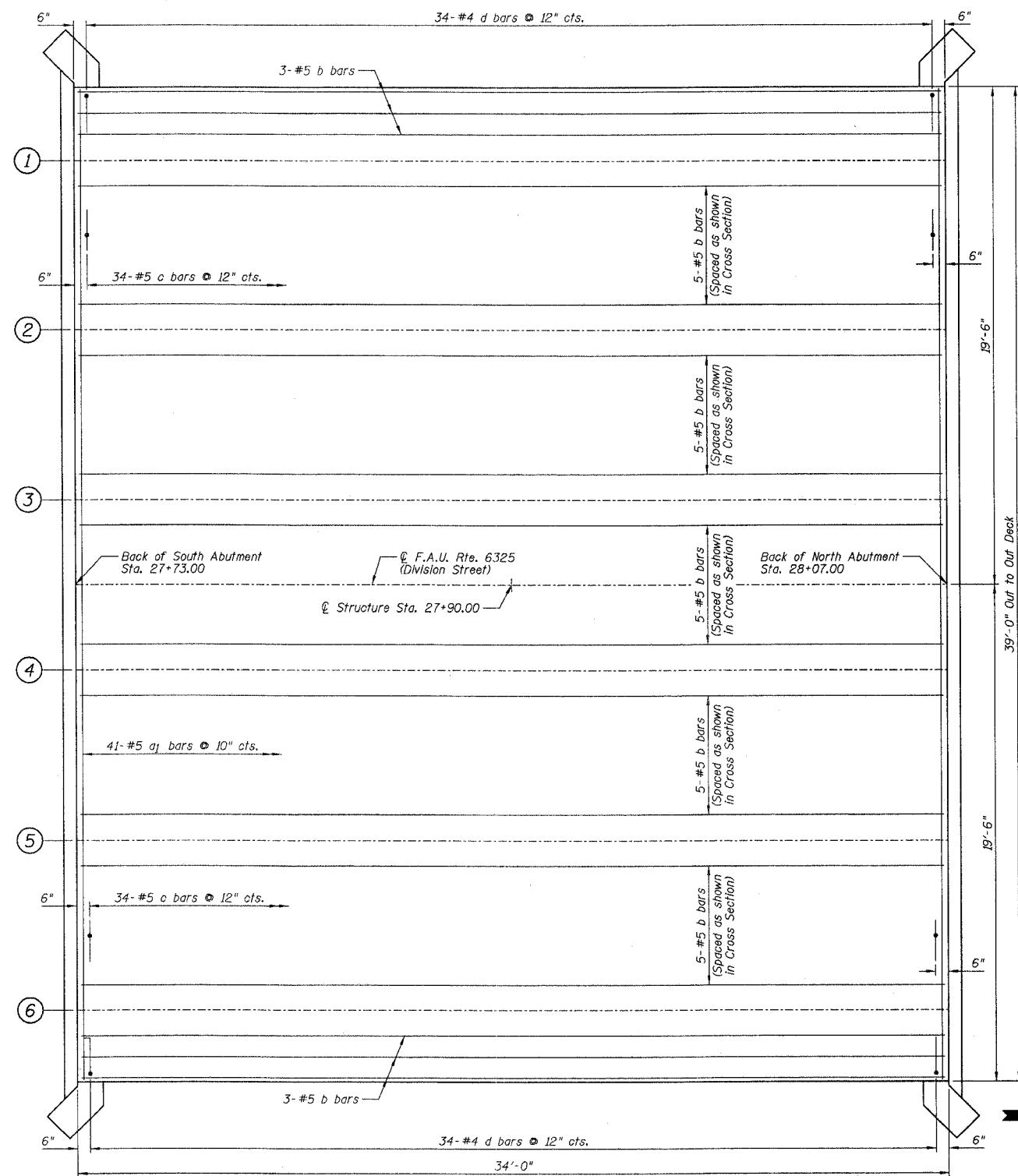
TOP OF SLAB ELEVATIONS

NOTES:

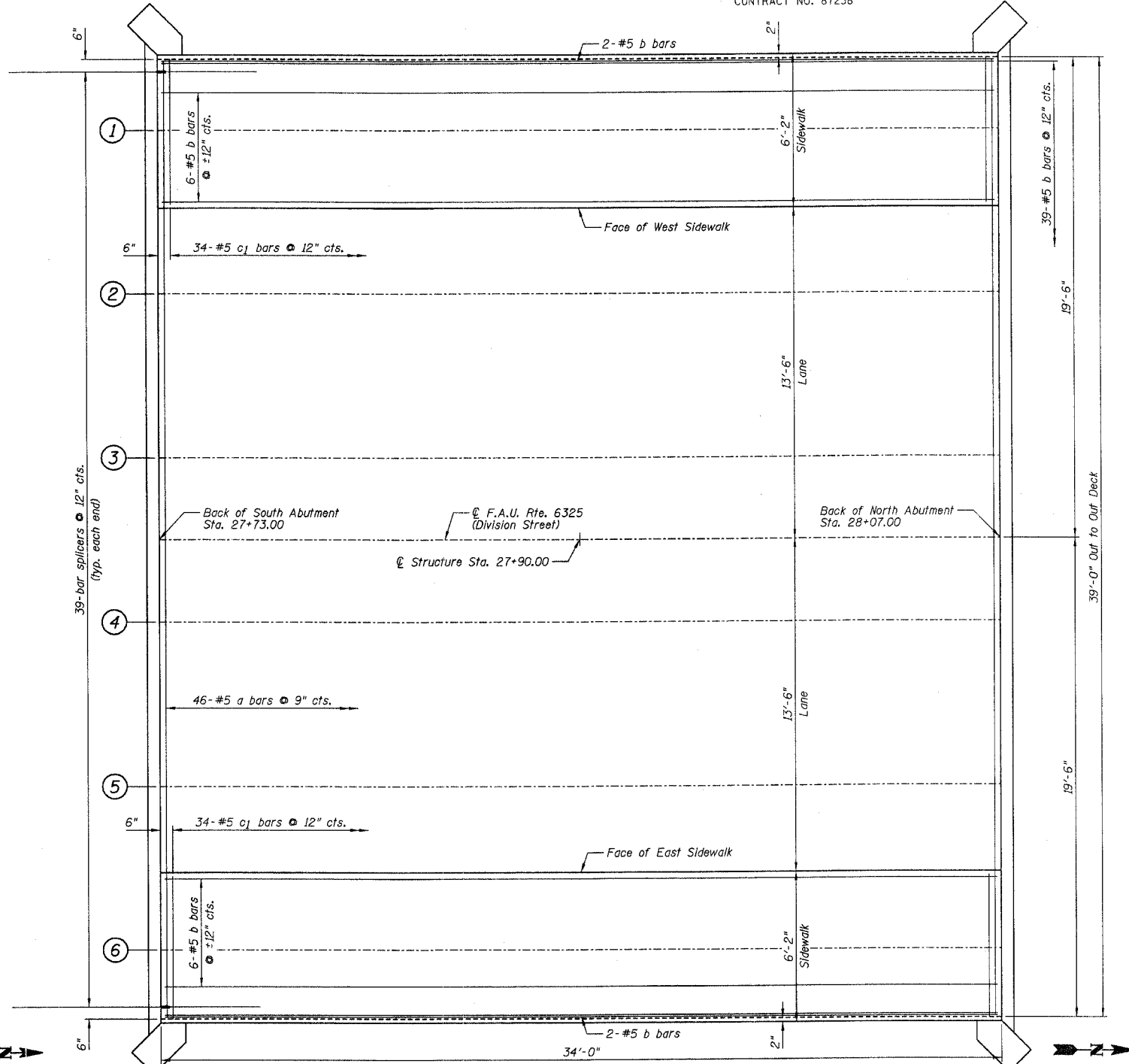
- 1.) Work this sheet with Sheets B5, B7 & B8.
- 2.) For Elevation Locations see Sheet B5.

DESIGNED BY J.M.L.	 2708 McGraw Drive Bloomington, Illinois 61704 309/488-8426, 309/883-2871 fax	FILE NO. 24-6884
DRAWN BY D.J.M.		DATE 01-14-05
CHECKED BY M.S.W.		SHEET NO. 13 of 31

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. B7 OF 18 SHEETS
6325	02-00090-00-BR	LIVINGSTON	31	14	
STA.	TO STA.				
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT+			
CONTRACT NO. 87238					



BOTTOM OF SLAB PLAN



TOP OF SLAB PLAN

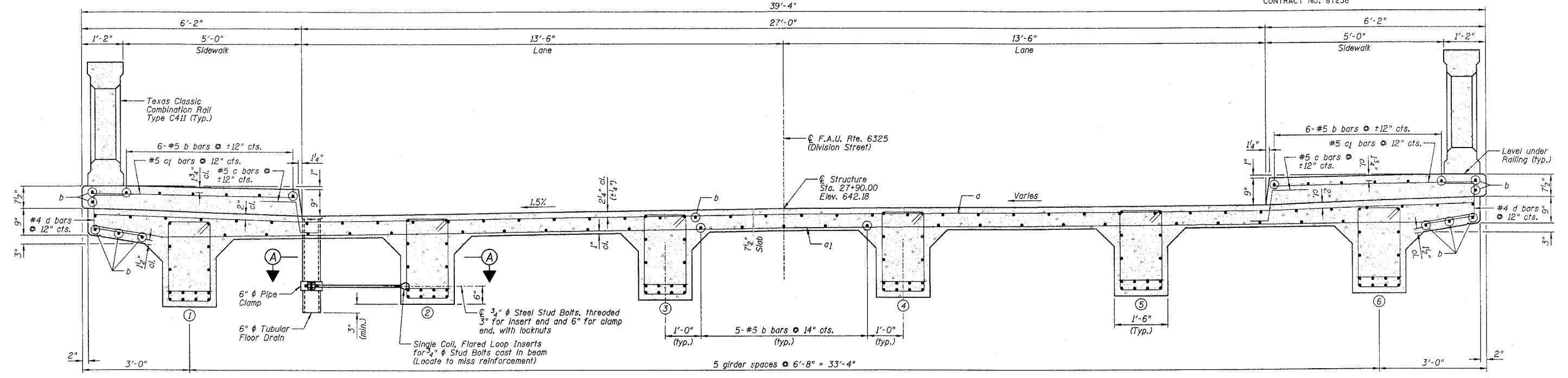
- NOTES:**
- 1.) Work this sheet with Sheets B4-B6, B8 & B9.
 - 2.) For Superstructure Bill of Materials see Sheet B8.

SECTION 02-00090-00-BR
LIVINGSTON COUNTY
PONTIAC, ILLINOIS

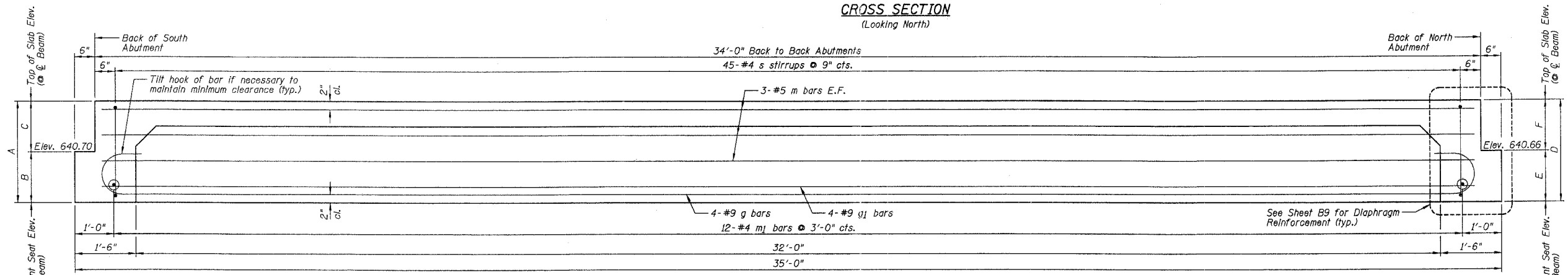
SUPERSTRUCTURE DECK

DESIGNED BY J.M.L.	<p>3700 McGraw Drive Bloomington, Illinois 61704 309/885-6136, 309/885-1871 fax</p>	FILE NO. 24-6884
DRAWN BY D.J.M.		DATE 01-14-05
CHECKED BY M.S.W.		SHEET NO. 14 of 31

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. B8 OF 18 SHEETS
6325	02-00090-00-BR	LIVINGSTON	31	15	
STA.	TO STA.				
FED. ROAD DIST. NO. 7	ILLINOIS FED. AID PROJECT*		CONTRACT NO. 87238		



CROSS SECTION
(Looking North)



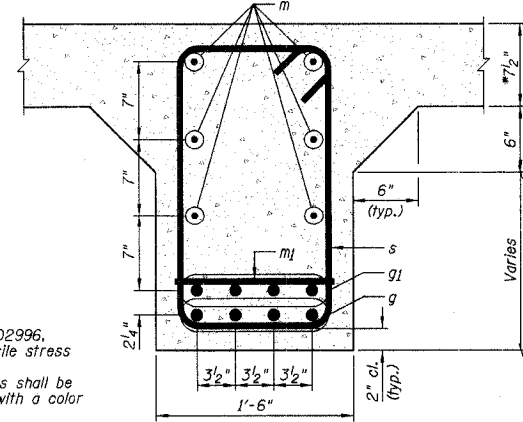
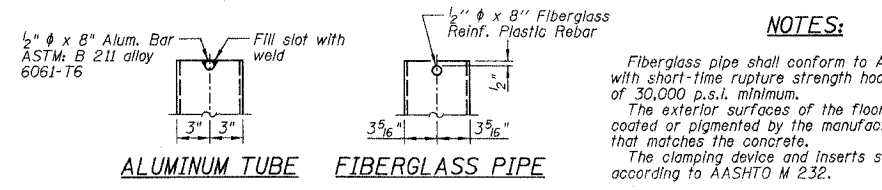
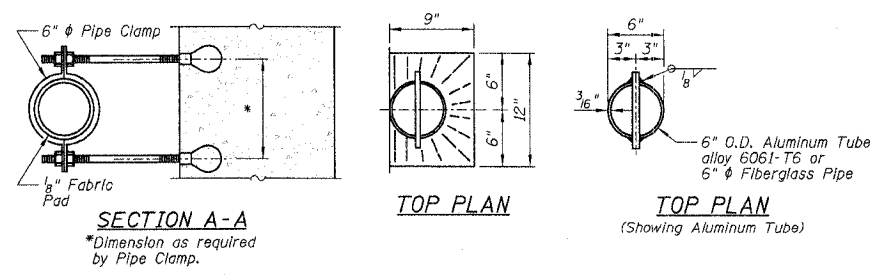
GIRDER ELEVATION

**SUPERSTRUCTURE
BILL OF MATERIALS**

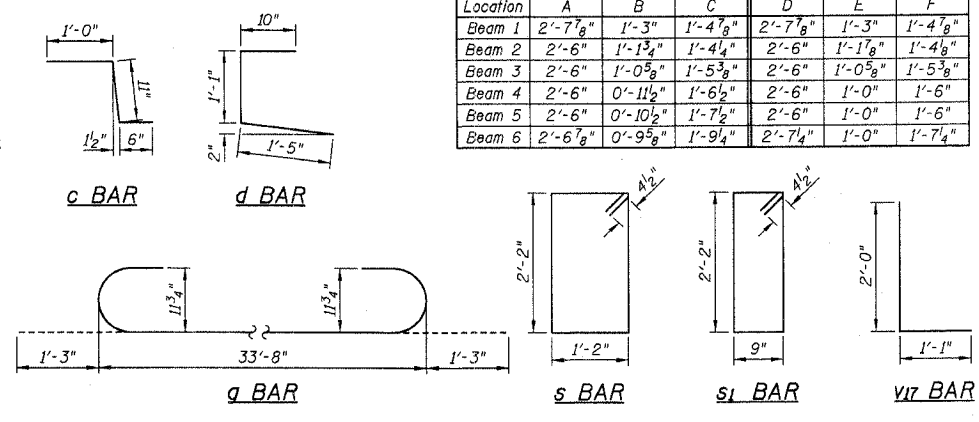
Bar	No.	Size	Length	Shape
a	46	#5	38'-8"	—
a1	41	#5	38'-8"	—
b	86	#5	33'-8"	—
c	68	#5	2'-5"	┌
c1	68	#5	5'-8"	┌
d	68	#4	3'-4"	┌
g	24	#9	36'-2"	┌
g1	24	#9	33'-8"	┌
m	36	#5	33'-8"	—
m1	72	#4	1'-2"	—
m2	14	#5	40'-8"	—
s	270	#4	7'-5"	┌
sl	76	#4	6'-7"	┌
v7	82	#5	3'-1"	┌

END OF BEAM DIMENSION TABLE

Location	A	B	C	D	E	F
Beam 1	2'-7 ⁷ / ₈ "	1'-3"	1'-4 ¹ / ₈ "	2'-7 ⁷ / ₈ "	1'-3"	1'-4 ¹ / ₈ "
Beam 2	2'-6"	1'-1 ³ / ₄ "	1'-4 ¹ / ₄ "	2'-6"	1'-1 ⁷ / ₈ "	1'-4 ¹ / ₈ "
Beam 3	2'-6"	1'-0 ⁵ / ₈ "	1'-5 ³ / ₈ "	2'-6"	1'-0 ⁵ / ₈ "	1'-5 ³ / ₈ "
Beam 4	2'-6"	0'-11 ¹ / ₂ "	1'-6 ¹ / ₂ "	2'-6"	1'-0"	1'-6"
Beam 5	2'-6"	0'-10 ¹ / ₂ "	1'-7 ¹ / ₂ "	2'-6"	1'-0"	1'-6"
Beam 6	2'-6"	0'-9 ³ / ₈ "	1'-9 ¹ / ₄ "	2'-7 ¹ / ₄ "	1'-0"	1'-7 ¹ / ₄ "



TYPICAL GIRDER DETAIL
*Greater than 7¹/₂" @ Beam #1 & #6.

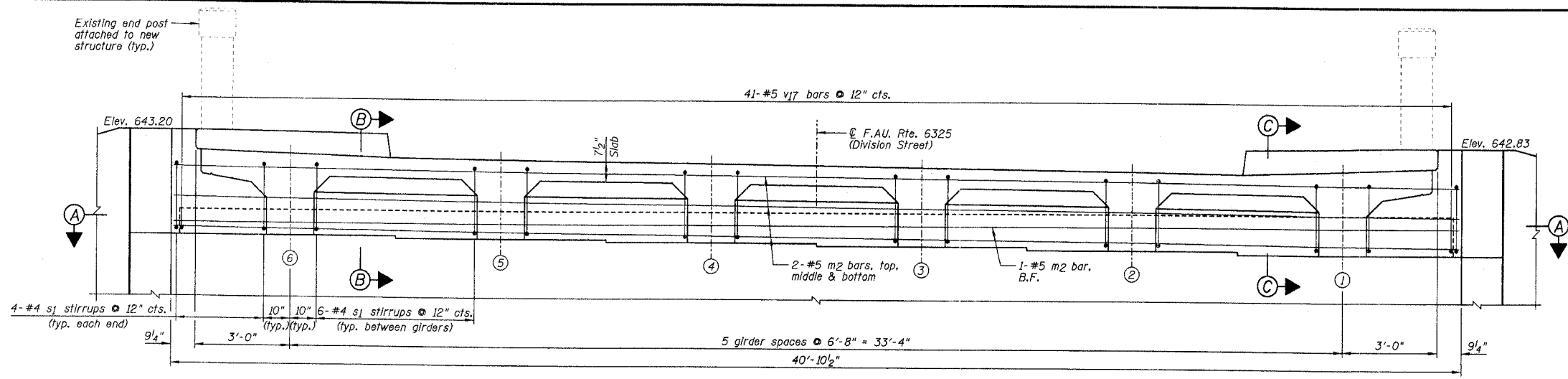


NOTE:
Work this sheet with Sheets B5-B7, B9 & B10.

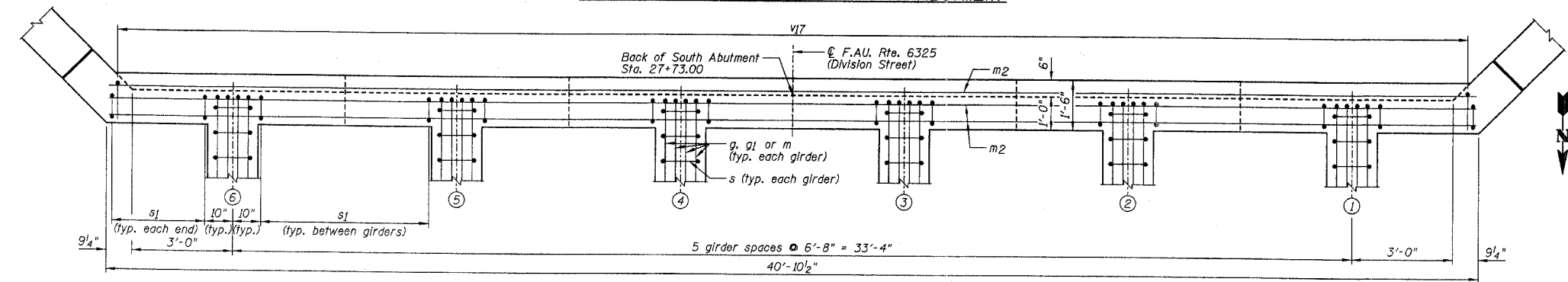
**SECTION 02-00090-00-BR
LIVINGSTON COUNTY
PONTIAC, ILLINOIS
SUPERSTRUCTURE CROSS SECTION,
GIRDER ELEVATION & TYPICAL
DETAIL AND FLOOR DRAIN DETAILS**

DESIGNED BY J.M.L.	Farnsworth GROUP 2706 McGraw Drive Bloomington, Illinois 61704 309/898-8636, 309/898-1871 fax	FILE NO. 24-6884
DRAWN BY D.J.M.		DATE 01-14-05
CHECKED BY M.S.W.		SHEET NO. 15 OF 31

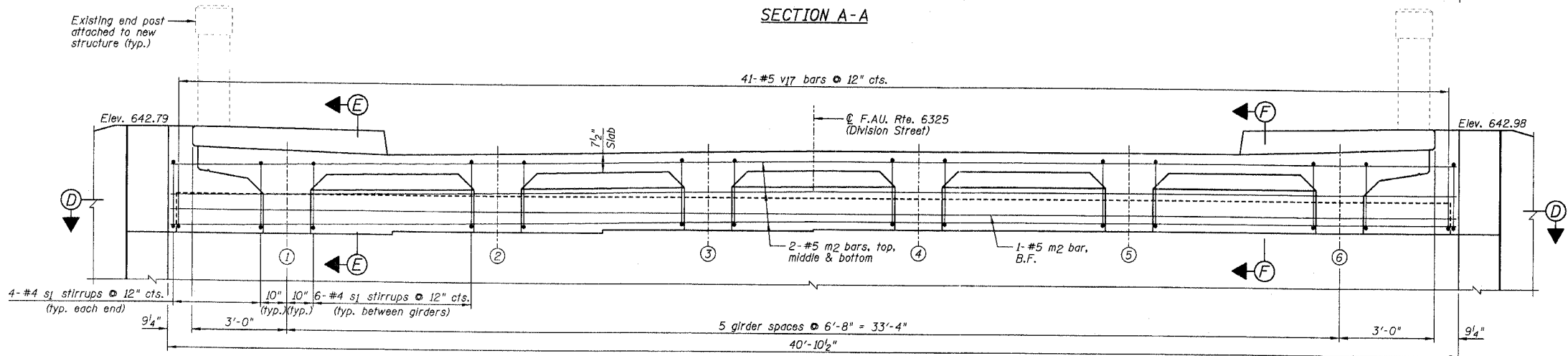
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 89 OF 18 SHEETS
6325	02-00090-00-BR	LIVINGSTON	31	16	
STA.	TO STA.				
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			
CONTRACT NO. 87238					



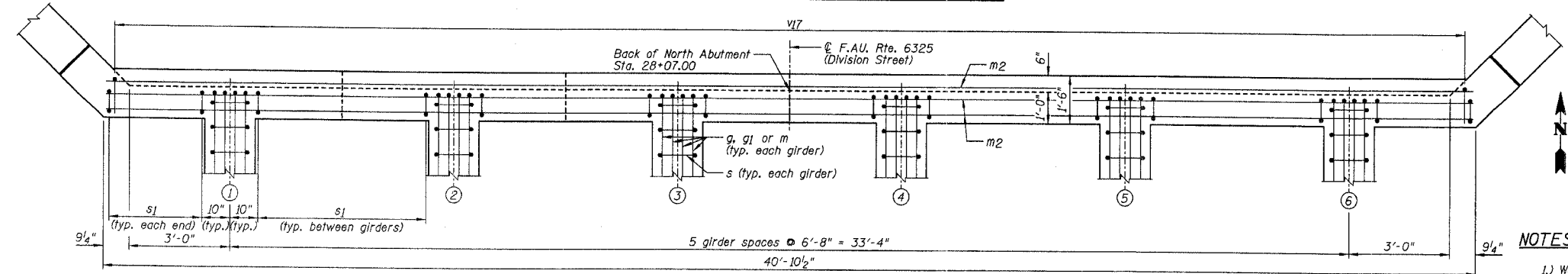
ELEVATION OF DIAPHRAGM AT SOUTH ABUTMENT



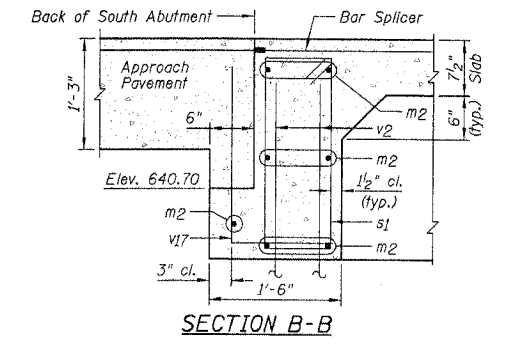
SECTION A-A



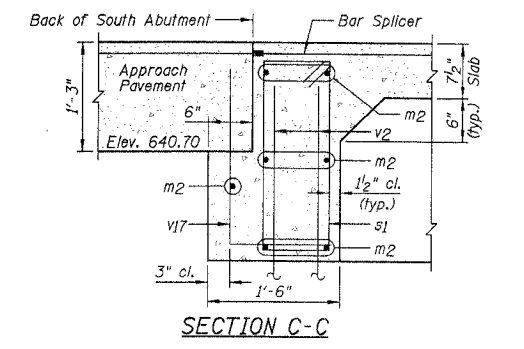
ELEVATION OF DIAPHRAGM AT NORTH ABUTMENT



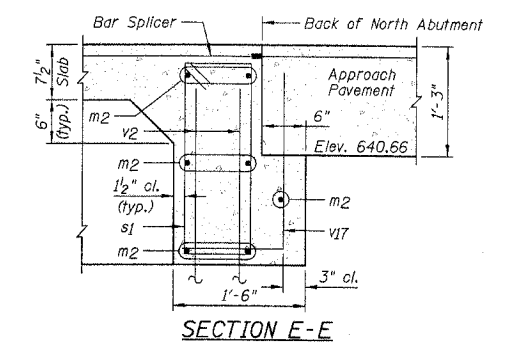
SECTION D-D



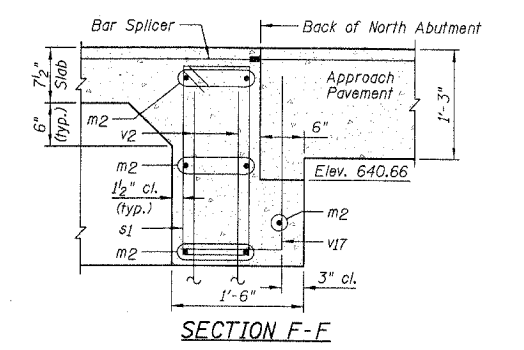
SECTION B-B



SECTION C-C



SECTION E-E



SECTION F-F

NOTES:

- 1.) Work this sheet with Sheets B4-B8.
- 2.) For Superstructure Bill of Materials see Sheet B8.

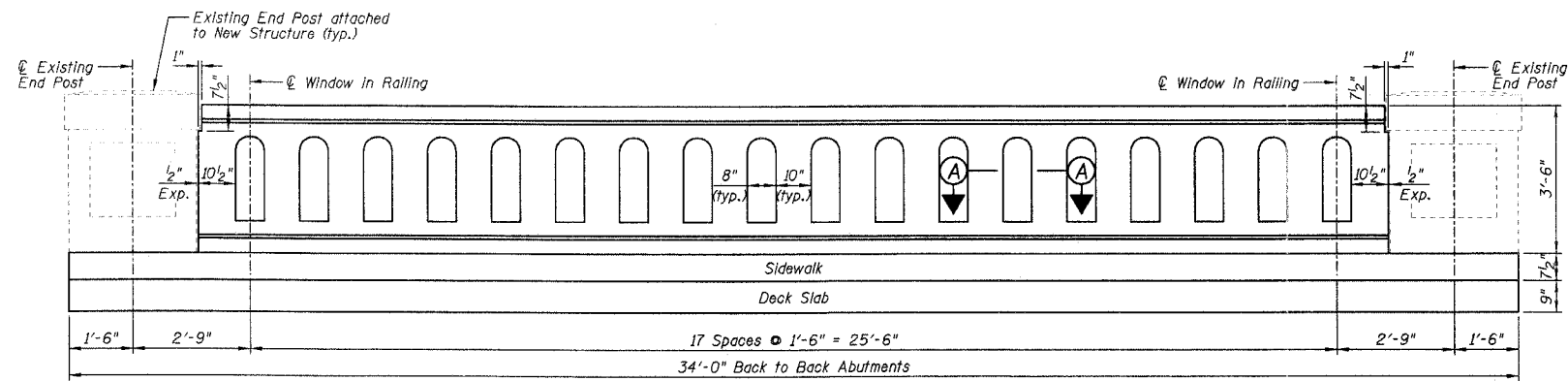
SECTION 02-00090-00-BR
LIVINGSTON COUNTY
PONTIAC, ILLINOIS

END DIAPHRAGM
ELEVATIONS AND SECTIONS

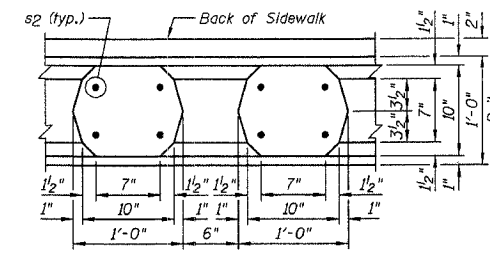
DESIGNED BY J.M.L.	<p>2706 McQuay Drive Bloomington, Illinois 61704 309/668-8130 309/663-1871 fax</p>	FILE NO. 24-6884
DRAWN BY D.J.M.		DATE 01-14-05
CHECKED BY M.S.W.		SHEET NO. 16 OF 31

RAILING BILL OF MATERIALS

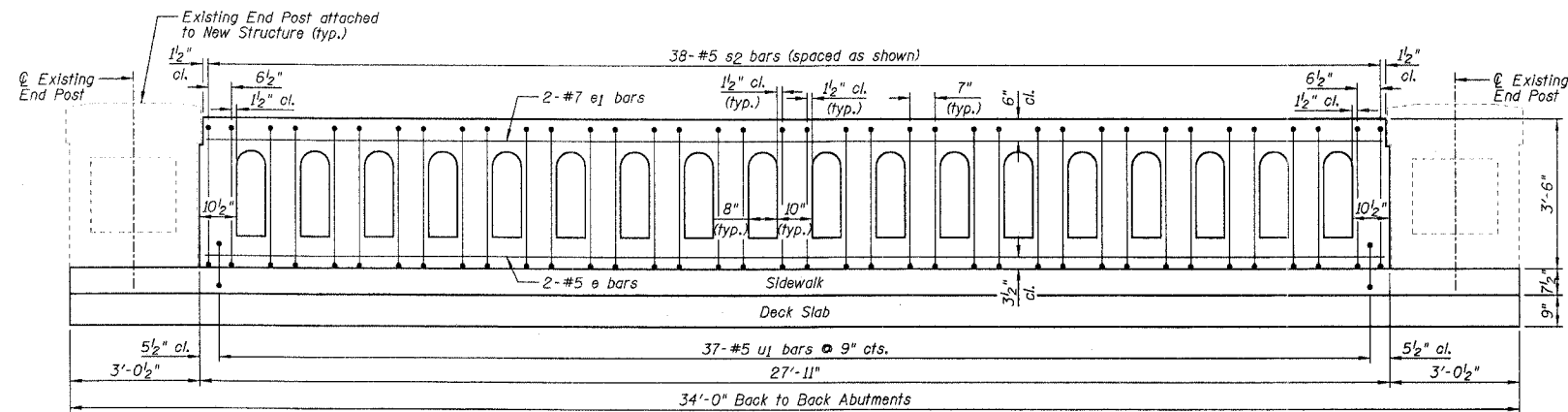
Bar	No.	Size	Length	Shape
d1	16	#5	3'-0"	—
e	4	#5	27'-7"	—
e1	4	#7	27'-5"	—
s2	76	#5	8'-6"	—
uj	74	#5	3'-5"	—
Item	Unit	Quantity		
Reinforcement Bars, Epoxy Coated	Pound	1330		
Concrete Rail	Foot	56		
Remove & Reset Existing Railing End Scroll Pieces	Each	4		



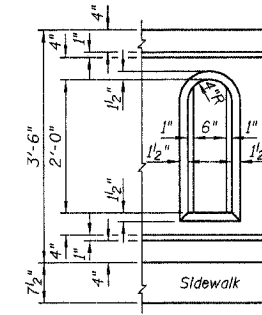
ELEVATION



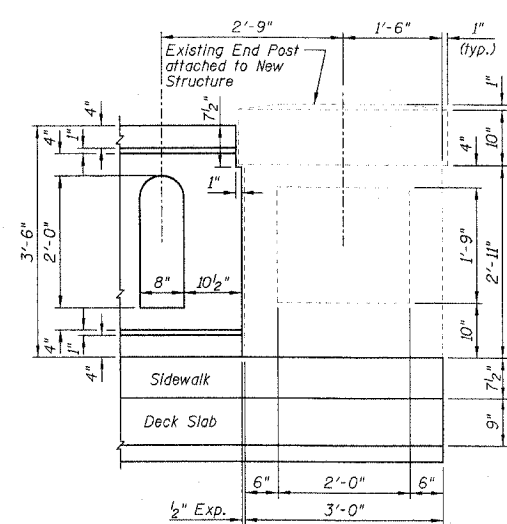
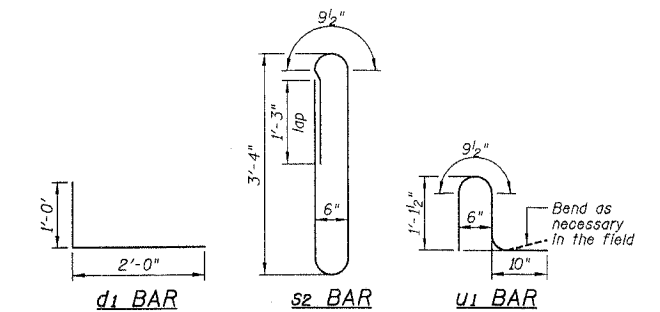
SECTION A-A



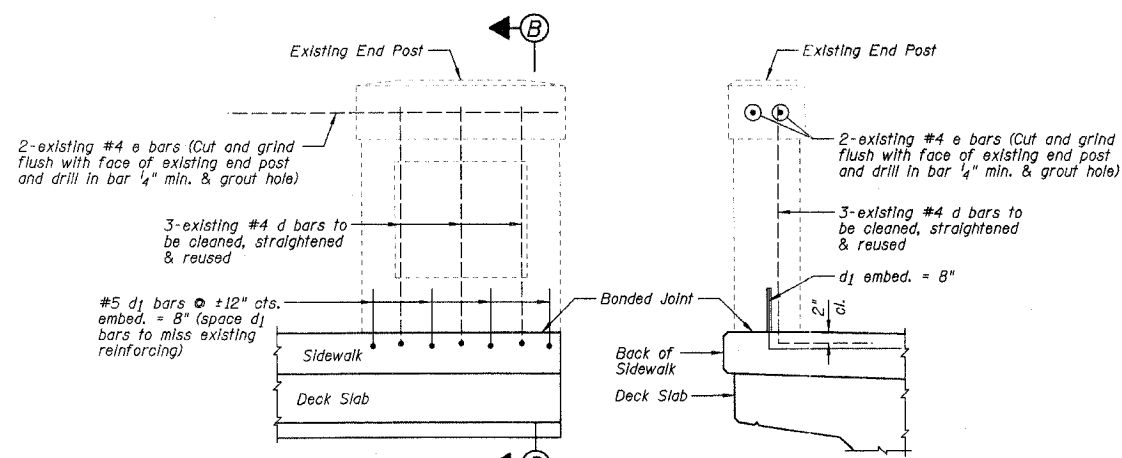
SECTION THRU RAILING
(Sidewalk and Deck Slab reinforcement not shown for clarity.)



WINDOW DETAIL



EXISTING END POST DETAIL

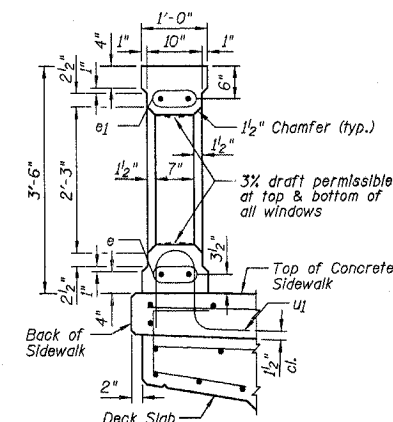


ELEVATION AT END POST

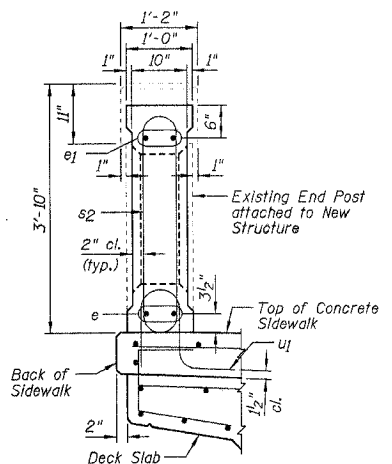
SECTION B-B

EXISTING END POST CONNECTION

(Sidewalk and Deck Slab reinforcement not shown for clarity.)
 Note: The Contractor shall provide support for the existing end posts. The method of support shall be approved by the Engineer. (approximate end post weight = 1820 lb)



SECTION THRU WINDOW ON BRIDGE SLAB



SECTION THRU POST ON BRIDGE SLAB
(Showing existing end post)

NOTES:

- 1.) Work this sheet with Sheets B7 & B8.
- 2.) This rail has been successfully evaluated by full-scale impact tests. Test documentation may be found in Research Report 1185-3F, "Aesthetically Pleasing Concrete Combination Pedestrian - Traffic Bridge Rail - Texas Type C411", of Research Study 2-5-89/90-1185, Texas Transportation Institute, August 1990.
- 3.) Face of rail shall be vertical transversely unless otherwise approved by the Engineer.
- 4.) All parts of the railing, including concrete, terminal connector, bolts, nuts and washers, are included in the price bid per cubic yard of "Bridge Rail".
- 5.) All concrete for railing wall shall be Class SI. A rubbed finish shall be applied to all railing surfaces unless otherwise shown elsewhere on the plans.
- 6.) Shop drawings will not be required for this rail.
- 7.) Top longitudinal slab bar may be adjusted laterally ±3" to tie reinforcing.
- 8.) Drill & Epoxy Grout d1 bars in 8" (min.) drilled holes according to Section 584 of Standard Specifications.
- 9.) The type of Epoxy Grout shall be approved by the Engineer.
- 10.) The Existing End Posts shall be held in place as the sidewalks are poured.

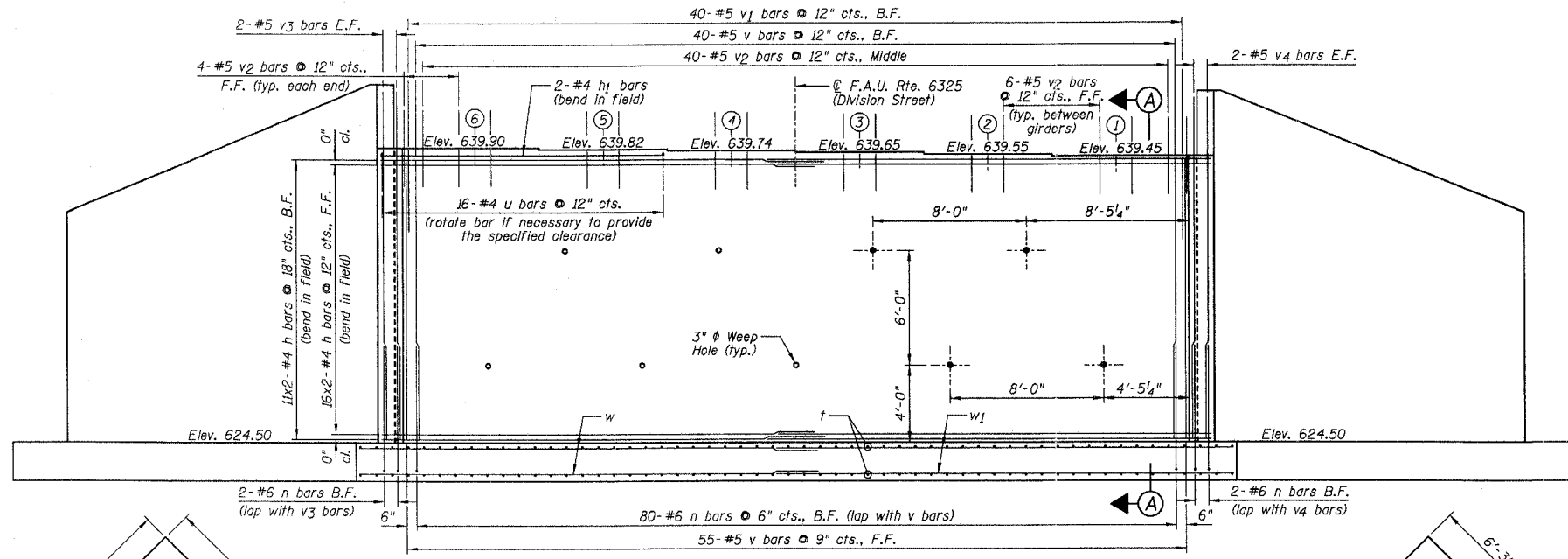
SECTION 02-00090-00-BR
LIVINGSTON COUNTY
PONTIAC, ILLINOIS

RAILING ELEVATION, SECTIONS, AND DETAILS

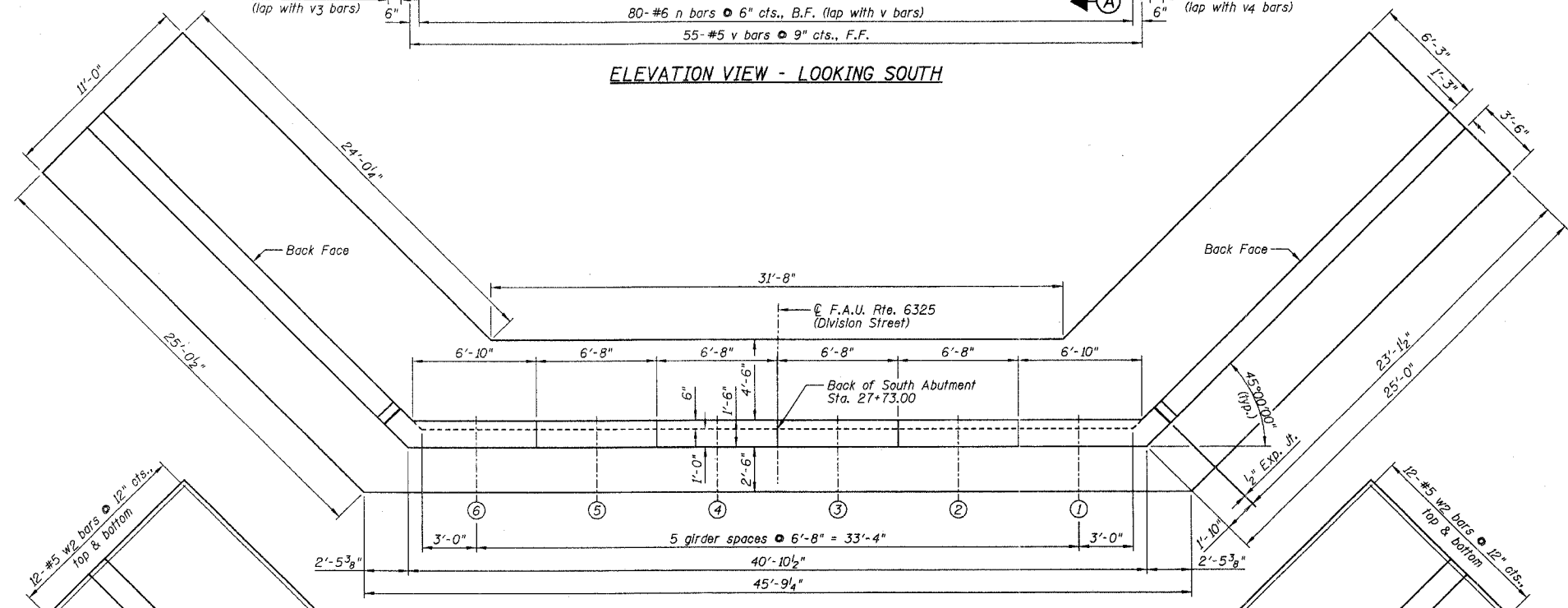
DESIGNED BY J.M.L.	 2706 McOmaw Drive Bloomington, Illinois 61704 309/895-8195, 309/893-1871 fax	FILE NO. 24-6884
DRAWN BY D.J.M.		DATE 01-14-05
CHECKED BY M.S.W.		SHEET NO. 17 of 31

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. B11 OF 18 SHEETS
6325	02-00090-00-BR	LIVINGSTON	31	18	
STA.	TO STA.				
FED. ROAD DIST. NO. 7	ILLINOIS FED. AID PROJECT				

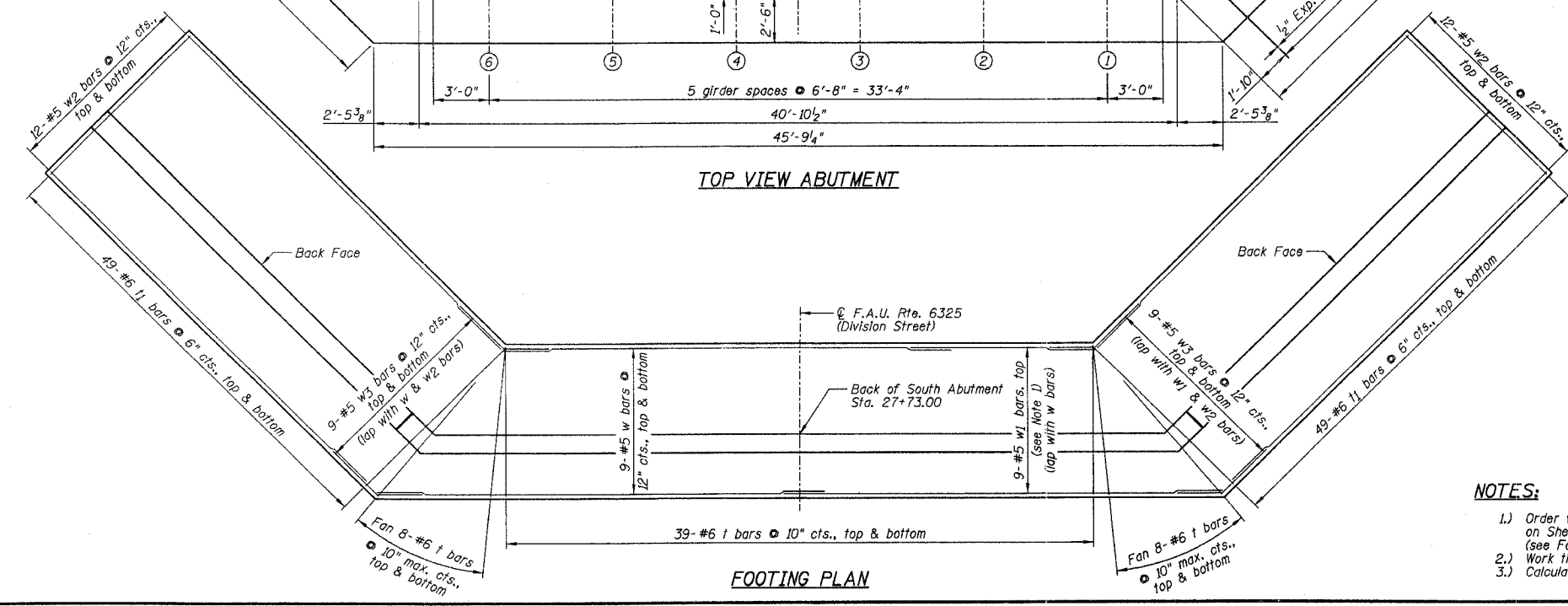
CONTRACT NO. 87238



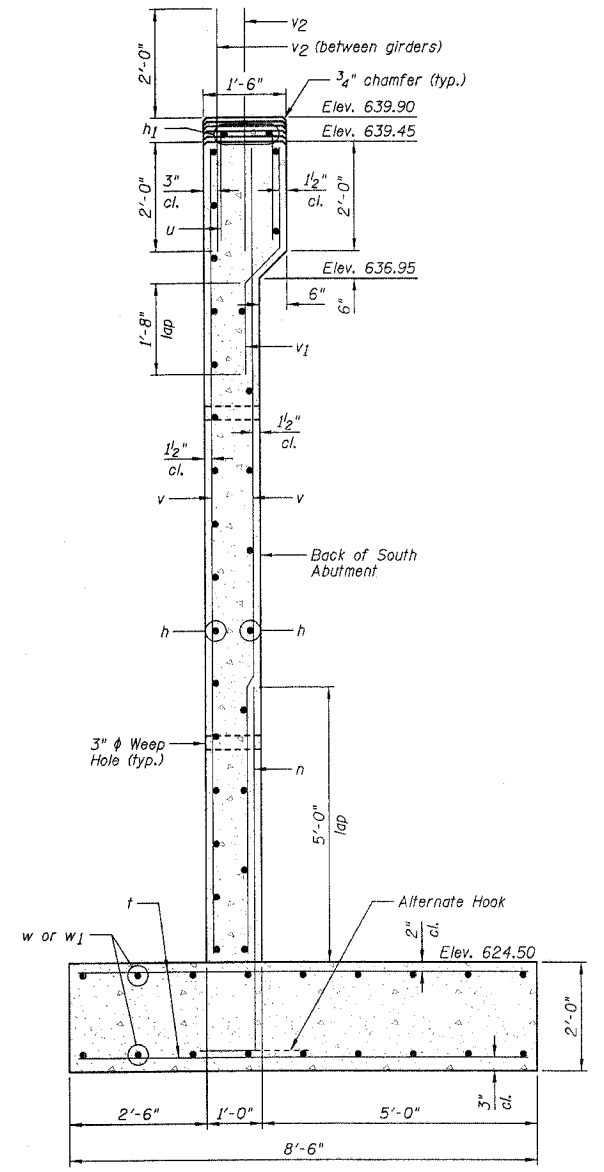
ELEVATION VIEW - LOOKING SOUTH



TOP VIEW ABUTMENT



FOOTING PLAN



SECTION A-A

BAR LAPS	
#4	= 1'-11"
#5	= 2'-5"
#6	= 2'-10"
#7	= 3'-10"
#8	= 5'-1"
#9	= 6'-4"

Note: Unless noted otherwise.

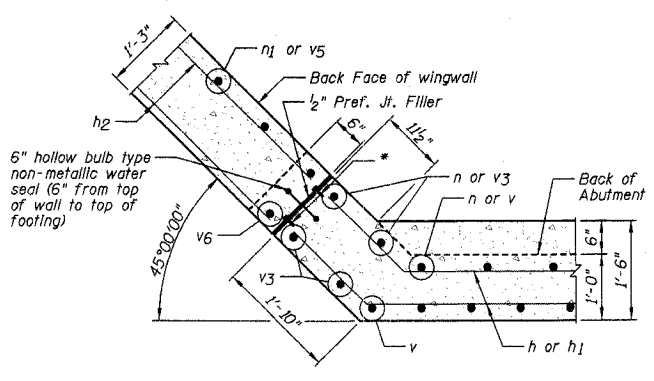
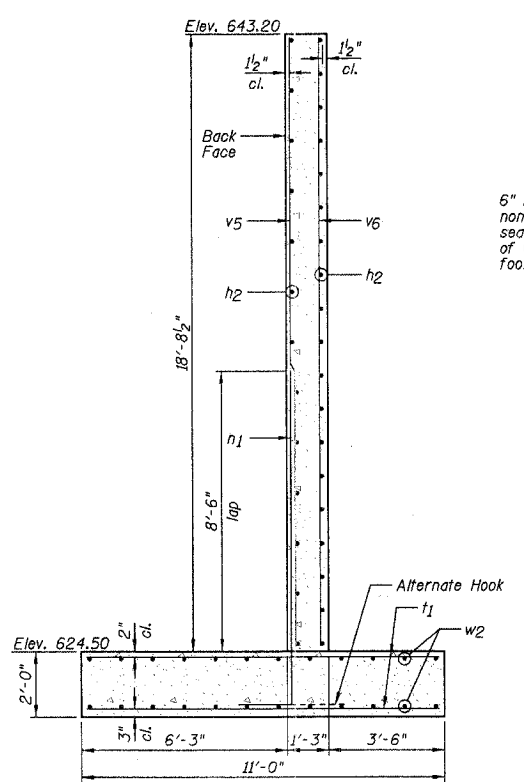
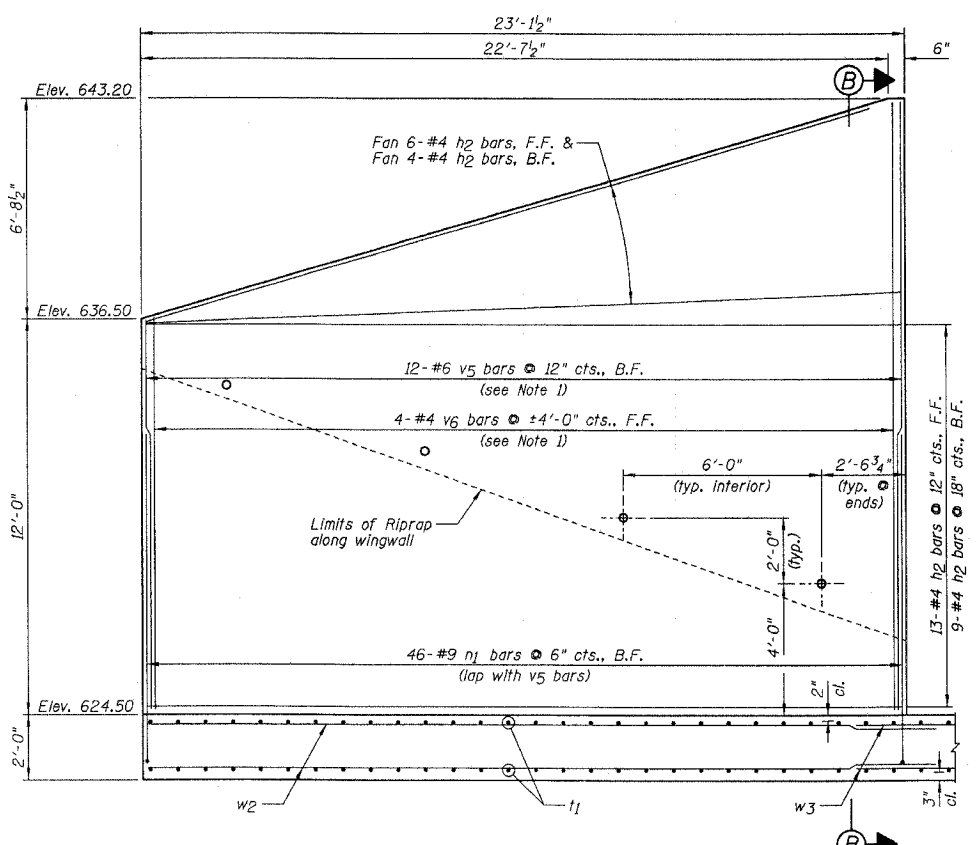
- NOTES:**
- Order w1 bars full length. Cut according to Bar Cutting Diagram on Sheet B12. Use remainder of w1 bars in bottom of footing (see Footing Plan for bar locations).
 - Work this sheet with Sheet B12.
 - Calculated Maximum Soil Pressure = 5.60 ksf (service pressure).

SECTION 02-00090-00-BR
LIVINGSTON COUNTY
PONTIAC, ILLINOIS

SOUTH ABUTMENT

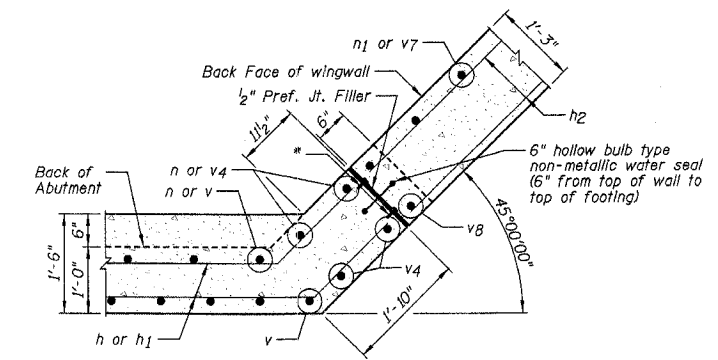
DESIGNED BY J.M.L.	<p>Farnsworth GROUP 2700 McGraw Drive Bloomington, Illinois 61704 309/488-0134, 309/683-0771 fax</p>	FILE NO. 24-6884
DRAWN BY D.J.M.		DATE 01-14-05
CHECKED BY M.S.W.		SHEET NO. 18 OF 31

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. B12 OF 18 SHEETS
6325	02-00090-00-BR	LIVINGSTON	31	19	
STA.		TO STA.			
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT*			
CONTRACT NO. 87238					



BAR CUTTING DIAGRAMS

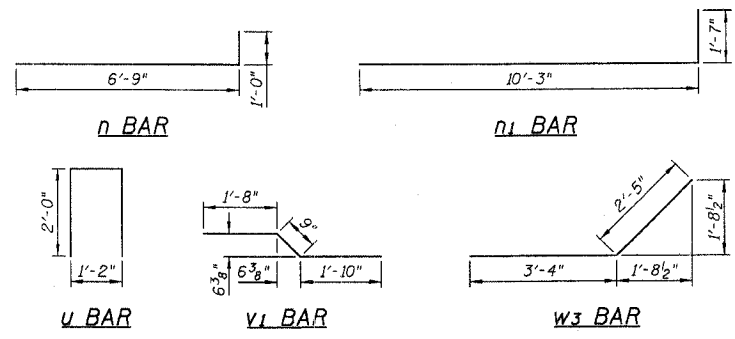
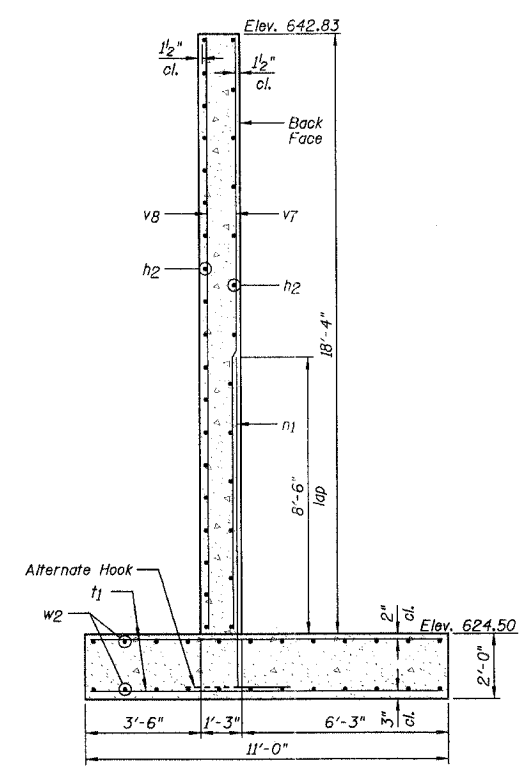
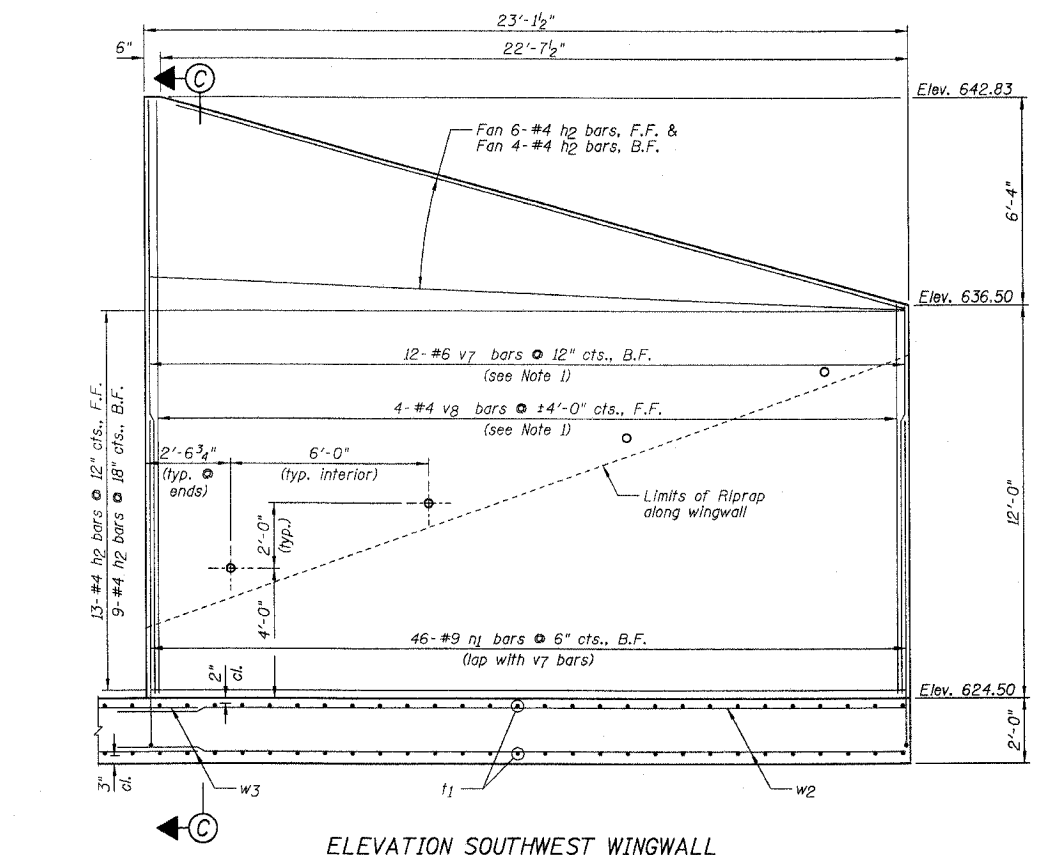
BAR	A	B	C	D	E	F	L
w1	24'-1"	10'-0"	24'-1"	10'-0"	1	9	34'-1"
v5	18'-6"	11'-10"	15'-3 3/4"	15'-0 1/4"	1	12	30'-4"
v6	18'-6"	11'-10"	15'-7 3/4"	14'-8 1/4"	1	4	30'-4"
v7	18'-2"	11'-10"	15'-1 3/4"	14'-10 1/4"	1	12	30'-0"
v8	18'-2"	11'-10"	15'-5 1/2"	14'-6 1/2"	1	4	30'-0"



SOUTH ABUTMENT BILL OF MATERIALS

Bar	No.	Size	Length	Shape
h	54	#4	23'-0"	---
h1	2	#4	15'-2"	---
h2	64	#4	22'-9"	---
n	84	#6	7'-9"	---
n1	92	#9	11'-10"	---
t	110	#6	8'-2"	---
t1	196	#6	10'-8"	---
u	16	#4	5'-2"	---
v	95	#5	14'-9"	---
v1	40	#5	4'-3"	---
v2	78	#5	4'-6"	---
v3	4	#5	18'-6"	---
v4	4	#5	18'-2"	---
v5	12	#6	30'-4"	---
v6	4	#6	30'-4"	---
v7	12	#6	30'-0"	---
v8	4	#4	30'-0"	---
w	18	#5	24'-1"	---
w1	9	#5	34'-1"	---
w2	48	#5	23'-10"	---
w3	36	#5	5'-9"	---

Item	Unit	Quantity
Structure Excavation	Cu. Yd.	875
Rock Excavation for Structures	Cu. Yd.	108
Concrete Structures	Cu. Yd.	124.0
Seal Coat Concrete	Cu. Yd.	33
Reinforcement Bars, Epoxy Coated	Pound	16,630
Name Plates	Each	1



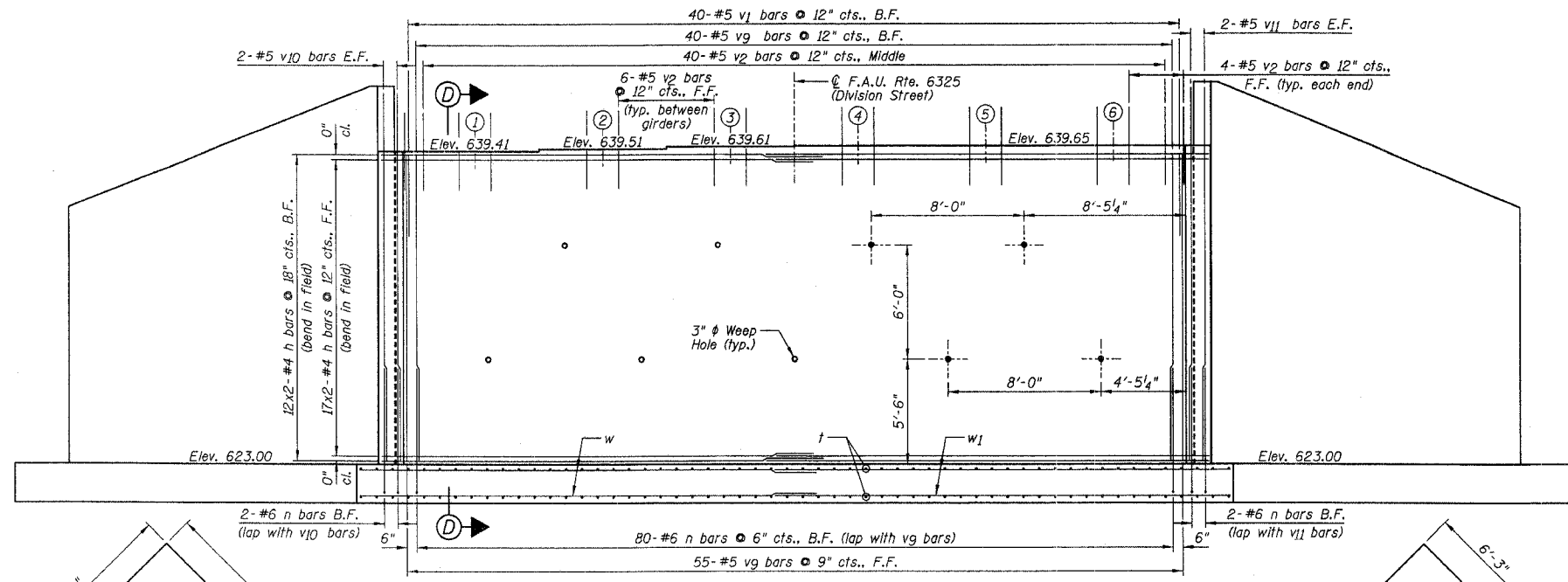
- NOTES:**
- Order v5, v6, v7 & v8 bars full length. Cut according to Bar Cutting Diagram. Use remainder of v5, v6, v7 & v8 bars in same face of wingwalls.
 - Work this sheet with Sheets B11.

SECTION 02-00090-00-BR
LIVINGSTON COUNTY
PONTIAC, ILLINOIS

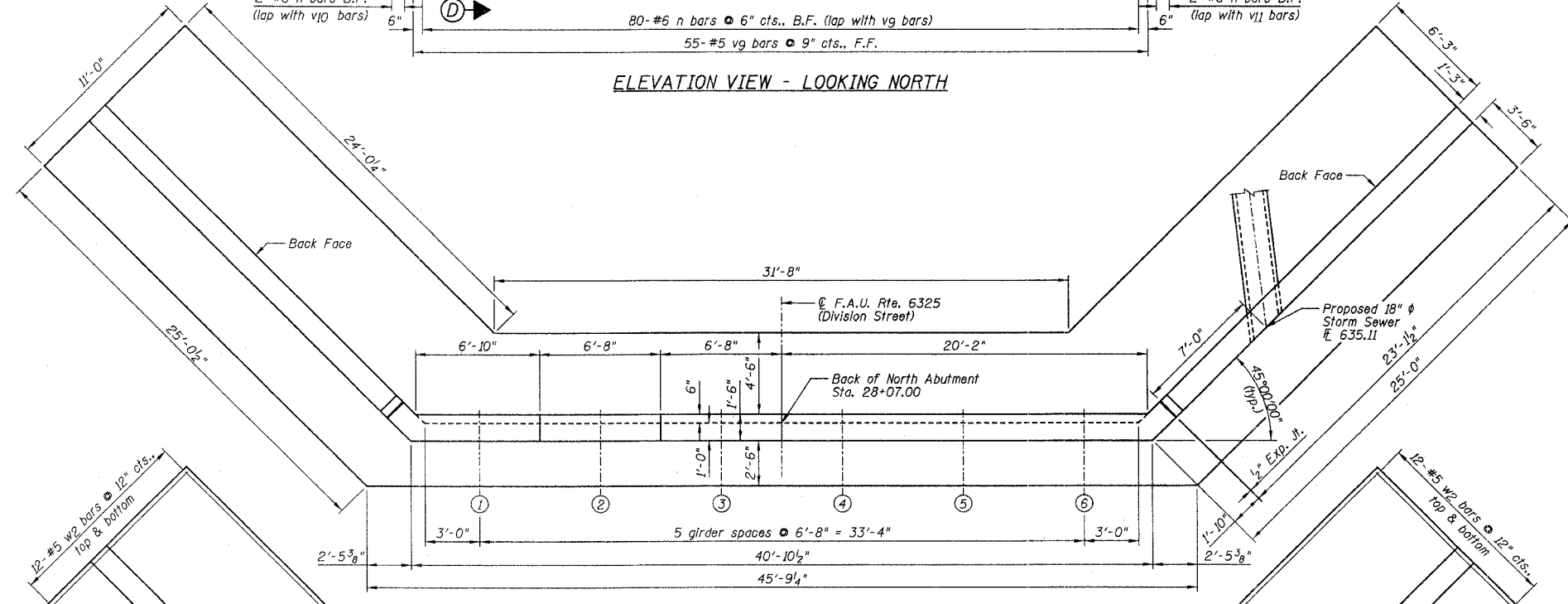
SOUTH ABUTMENT WINGWALL DETAILS AND BILL OF MATERIALS

DESIGNED BY J.M.L.	Farnsworth GROUP 2706 McDrew Drive Bloomington, Illinois 61704 309/898-9696, 309/898-9671 fax	FILE NO. 24-6884
DRAWN BY D.J.M.		DATE 01-14-05
CHECKED BY M.S.W.		SHEET NO. 19 OF 31

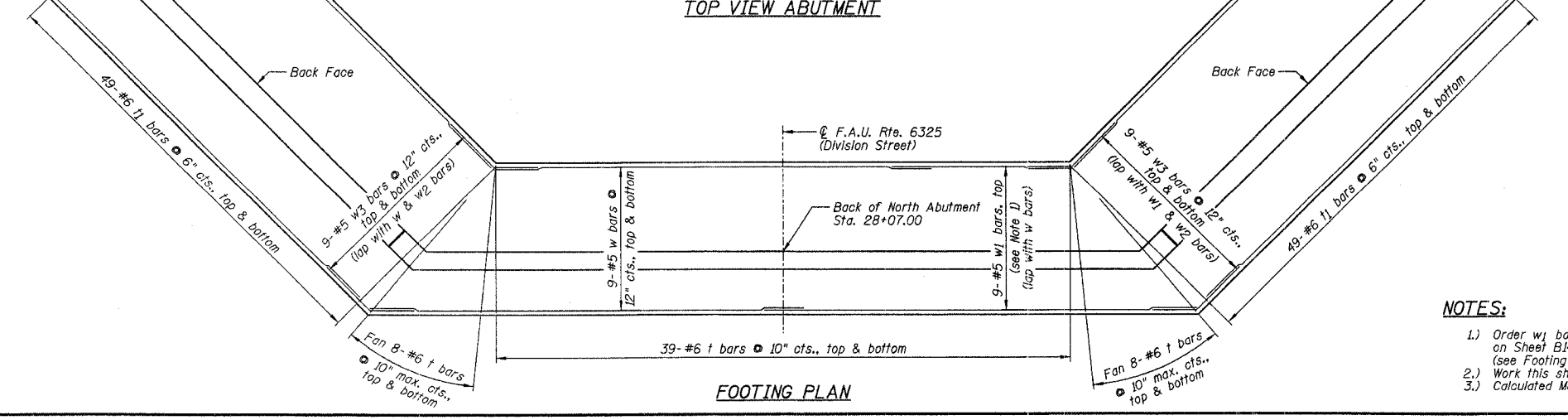
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. B13 OF 18 SHEETS
6325	02-00090-00-BR	LIVINGSTON	31	20	
STA.	TO STA.				
FED. ROAD DIST. NO. 7			ILLINOIS FED. AID PROJECT*		
CONTRACT NO. 87238					



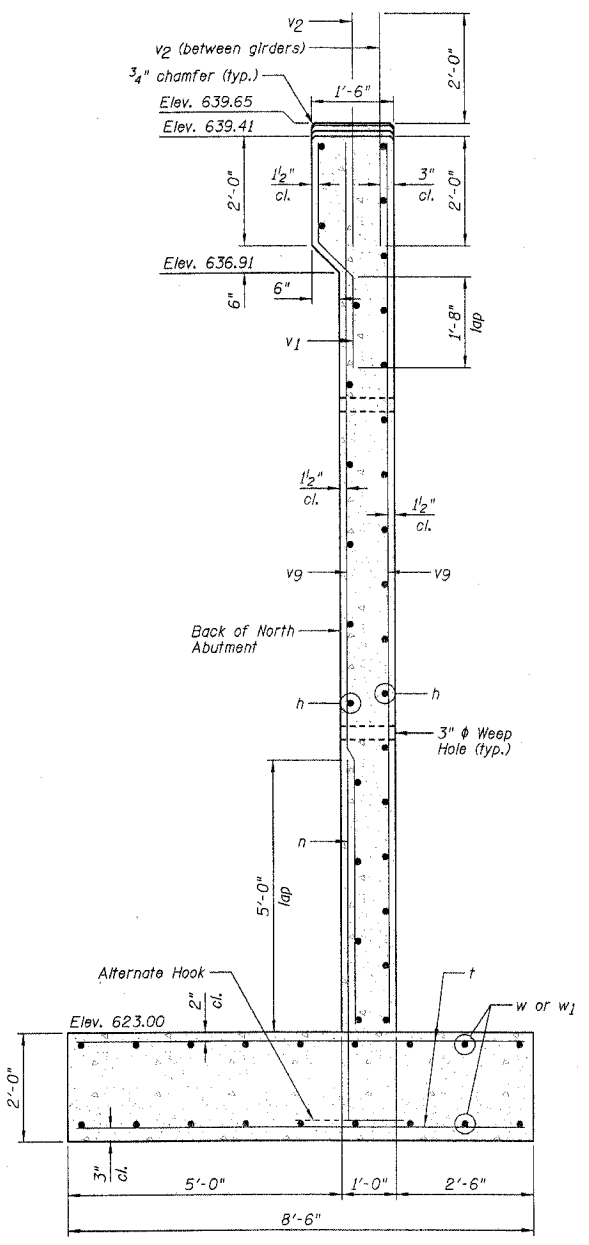
ELEVATION VIEW - LOOKING NORTH



TOP VIEW ABUTMENT



FOOTING PLAN



SECTION D-D

BAR LAPS	
#4	= 1'-11"
#5	= 2'-5"
#6	= 2'-10"
#7	= 3'-10"
#8	= 5'-1"
#9	= 6'-4"

Note: Unless noted otherwise.

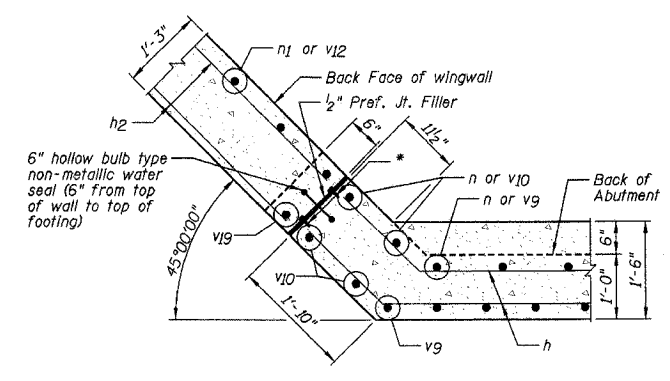
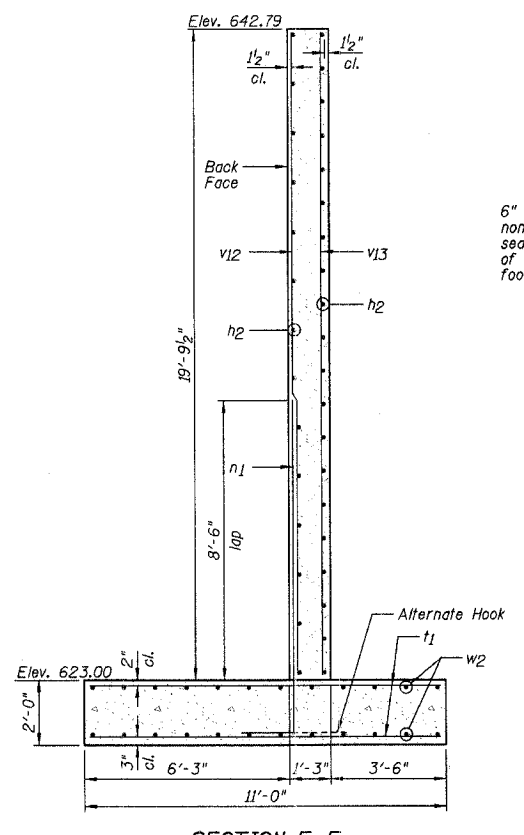
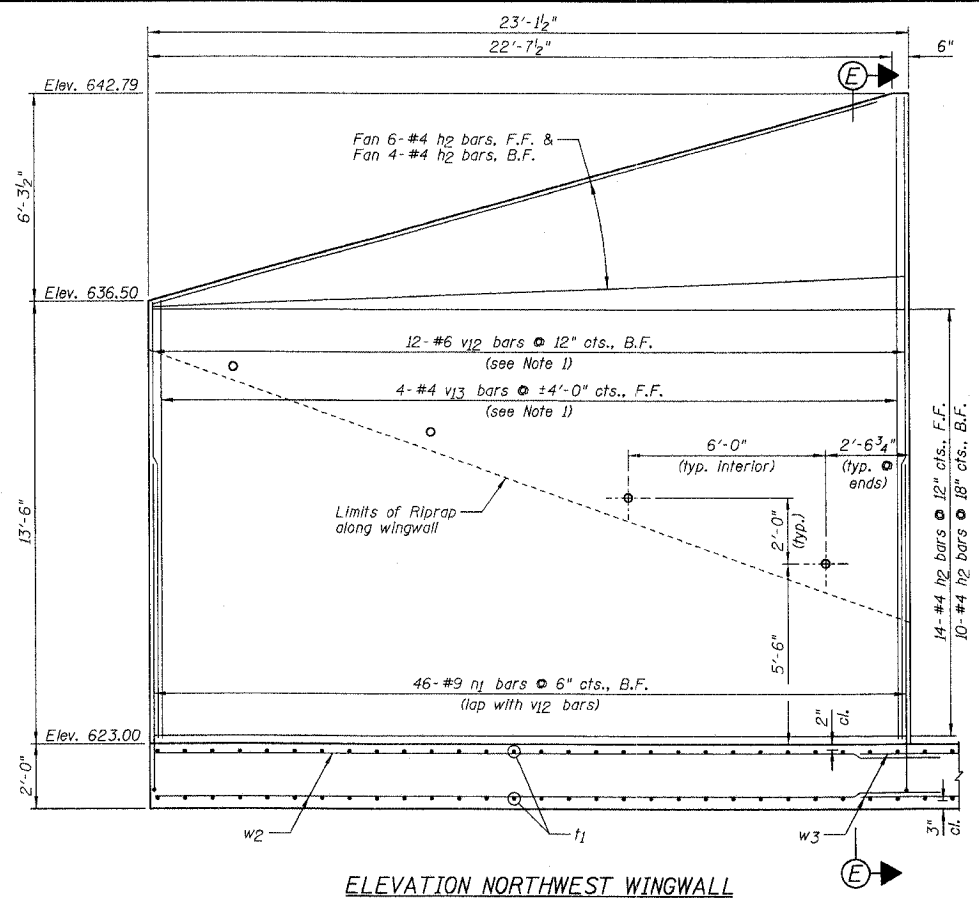
- NOTES:**
- Order w1 bars full length. Cut according to Bar Cutting Diagram on Sheet B14. Use remainder of w1 bars in bottom of footing (see Footing Plan for bar locations).
 - Work this sheet with Sheet B14.
 - Calculated Maximum Soil Pressure = 5.60 ksf (service pressure).

SECTION 02-00090-00-BR
LIVINGSTON COUNTY
PONTIAC, ILLINOIS

NORTH ABUTMENT

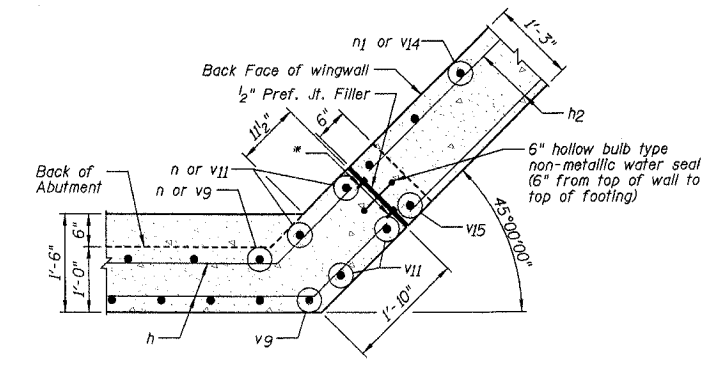
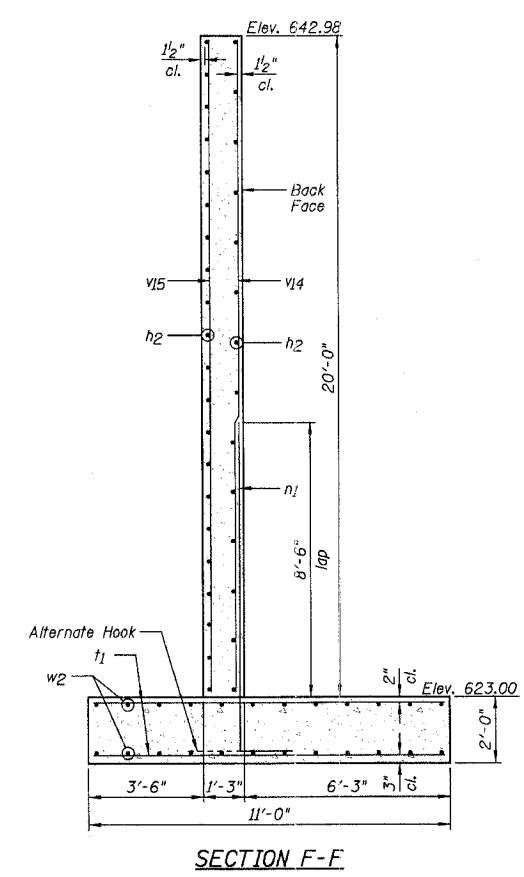
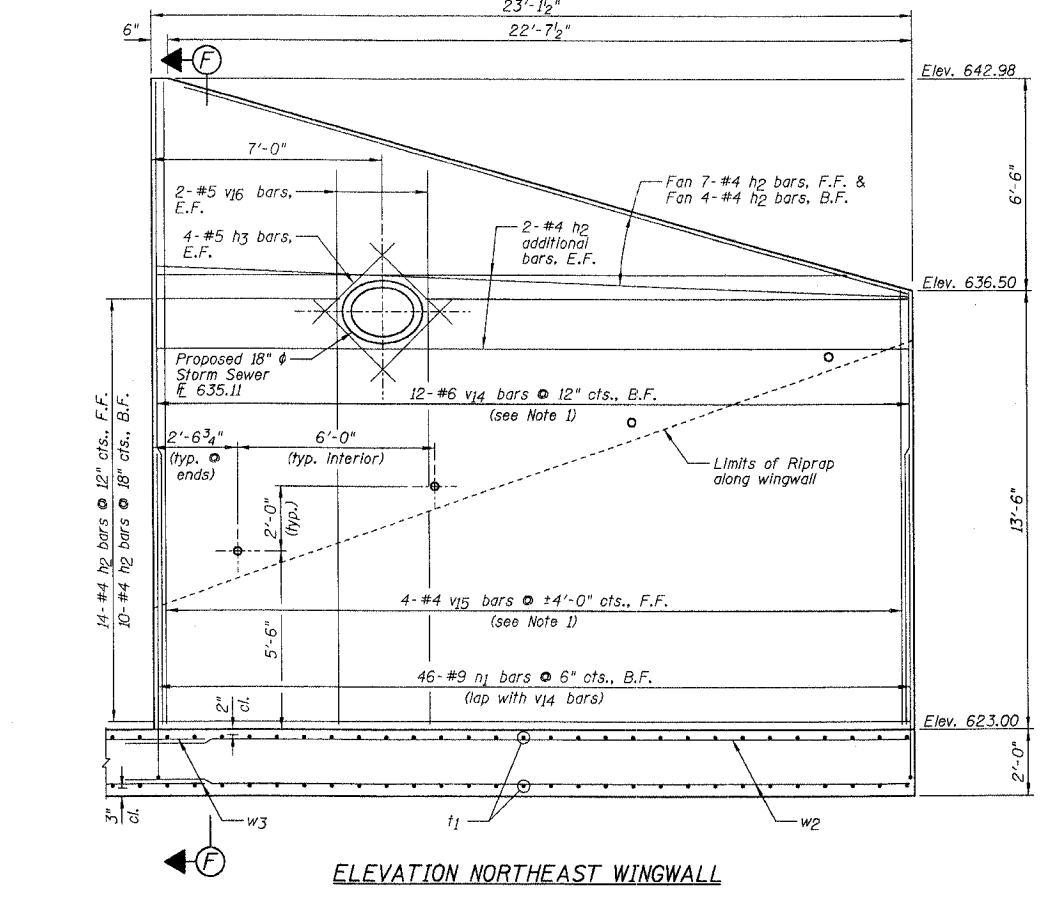
DESIGNED BY J.M.L.	<p>Farnsworth GROUP 3700 McGraw Drive Bloomington, Illinois 61704 309/835-8438, 309/835-1871 fax</p>	FILE NO. 24-6884
DRAWN BY D.J.M.		DATE 01-14-05
CHECKED BY M.S.W.		SHEET NO. 20 OF 31

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. B14 OF 18 SHEETS
6325	02-00090-00-BR	LIVINGSTON	31	21	
STA.	TO STA.				
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT*			
CONTRACT NO. 87238					



BAR CUTTING DIAGRAMS

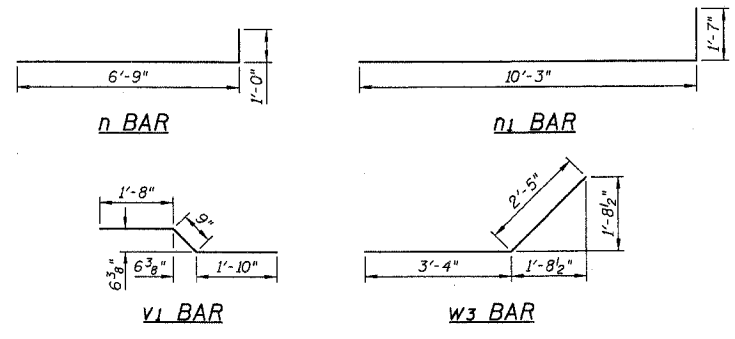
BAR	A	B	C	D	E	F	L
w1	24'-1"	10'-0"	24'-1"	10'-0"	1	9	34'-1"
v12	19'-7"	13'-4"	16'-7"	16'-4"	1	12	32'-11"
v13	19'-7"	13'-4"	16'-10 3/4"	16'-0 1/4"	1	4	32'-11"
v14	19'-10"	13'-4"	16'-8 3/4"	16'-5 1/4"	1	12	33'-2"
v15	19'-10"	13'-4"	17'-0 3/4"	16'-1 1/4"	1	4	33'-2"



NORTH ABUTMENT BILL OF MATERIALS

Bar	No.	Size	Length	Shape
h	58	#4	23'-0"	---
h2	73	#4	22'-9"	---
h3	8	#5	4'-0"	---
n	84	#6	7'-9"	---
n1	92	#9	11'-10"	---
t	110	#6	8'-2"	---
t1	196	#6	10'-8"	---
v1	40	#5	4'-3"	---
v2	78	#5	4'-6"	---
v9	95	#5	16'-3"	---
v10	4	#5	19'-7"	---
v11	4	#5	19'-10"	---
v12	12	#6	32'-11"	---
v13	4	#4	32'-11"	---
v14	12	#6	33'-2"	---
v5	4	#4	33'-2"	---
v6	4	#5	17'-0"	---
w	18	#5	24'-1"	---
w1	9	#5	34'-1"	---
w2	48	#5	23'-10"	---
w3	36	#5	5'-9"	---

Item	Unit	Quantity
Structure Excavation	Cu. Yd.	985
Rock Excavation for Structures	Cu. Yd.	102
Concrete Structures	Cu. Yd.	129.4
Seal Coat Concrete	Cu. Yd.	33
Reinforcement Bars, Epoxy Coated	Pound	17,140

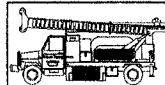


- NOTES:**
- Order v12, v13, v14 & v15 bars full length. Cut according to Bar Cutting Diagram. Use remainder of v12, v13, v14 & v15 bars in same face of wingwalls.
 - Work this sheet with Sheets B13.

SECTION 02-00090-00-BR
LIVINGSTON COUNTY
PONTIAC, ILLINOIS

NORTH ABUTMENT WINGWALL DETAILS AND BILL OF MATERIALS

DESIGNED BY J.M.L.	Farnsworth GROUP 2700 McGraw Drive Bloomington, Illinois 61704 309-898-9436, 309-898-8771 fax	FILE NO. 24-6884
DRAWN BY D.J.M.		DATE 01-14-05
CHECKED BY M.S.W.		SHEET NO. 21 of 31



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 1 of 2

Phone: 815-223-6696
Fax: 815-223-6659
E-Mail: Midwest@TheRamp.net

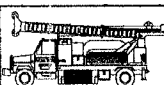
Client: Farnsworth Group
Project Name: Division Street Bridge
Project Site: Pontiac, Illinois

Boring No. 1
Surface Elev. 641.80
Auger Depth 28' Rotary Depth NA
Start Date 04/30/02 Finish Date 04/30/02

Location: 14 1/2' Lt Station 27+60.5

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
641.80										Randy Safranski	
640.80			1								
639.80			2								
638.80	STIFF TO MEDIUM BLACK & BROWN CLAY TO SANDY CLAY (Fill)		3	1	SS	1.2	8	S	15		
637.80			4								
636.80			5	2	SS	0.7	6	S	17		
635.80			6								
634.80			7								
633.80			8	3	SS	1.0	9	B	17		
632.80			9								
631.80			10	4	SS	1.0	8	B	20		
630.80	STIFF GRAY SANDY CLAY		11								
629.80			12								
628.80	VERY STIFF GRAY SILTY LOAM TILL w/LIMESTONE FRAGMENTS		13	5	SS	2.1	23	S	15		
627.80			14								
626.80			15	6	SS	2.5	20	B	18		
625.80			16								
624.80			17								
623.80	VERY DENSE GRAY WEATHERED SHALE		18	7	SS	-	81	-	12		
622.80			19								
621.80			20	8	SS	-	85	-	11		

Groundwater Data: Static Water Elevation 630.6
Comments:



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 2 of 2

Phone: 815-223-6696
Fax: 815-223-6659
E-Mail: Midwest@TheRamp.net

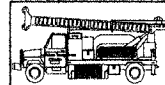
Client: Farnsworth Group
Project Name: Division Street Bridge
Project Site: Pontiac, Illinois

Boring No. 1
Surface Elev. 641.80
Auger Depth 28' Rotary Depth NA
Start Date 04/30/02 Finish Date 04/30/02

Location: 14 1/2' Lt Station 27+60.5

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
620.80										Randy Safranski	
619.80	VERY DENSE GRAY WEATHERED SHALE		22								
618.80			23	9	SS	-	94	-	11		
617.80			24								
616.80			25								
615.80			26	10	SS	-	91	-	10		
614.80			27								
613.80	REFUSAL LIMESTONE		28								
612.80			29								
611.80			30								
610.80			31								
609.80			32								
608.80			33								
607.80			34								
606.80			35								
605.80			36								
604.80			37								
603.80			38								
602.80			39								
601.80			40								
600.80			41								

Groundwater Data:
Comments:



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 1 of 2

Phone: 815-223-6696
Fax: 815-223-6659
E-Mail: Midwest@TheRamp.net

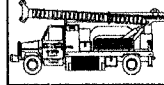
Client: Farnsworth Group
Project Name: Division Street Bridge
Project Site: Pontiac, Illinois

Boring No. 2
Surface Elev. 642.10
Auger Depth 28 1/2' Rotary Depth NA
Start Date 04/30/02 Finish Date 04/30/02

Location: 6' Rt Station 28+09

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS		
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)			Dry Density (PCF)	
642.10													
641.10	Bituminous Over Concrete Slab		1										
640.10			2										
639.10			3	1	SS	0.9	7	B	20				
638.10			4										
637.10	MEDIUM TO STIFF REDDISH BROWN & GRAY CLAY (Fill)		5	2	SS	0.6	5	B	23				
636.10			6										
635.10			7										
634.10			8	3	SS	1.0	8	B	19				
633.10			9										
632.10			10	4	SS	1.1	8	B	20				
631.10	STIFF BROWN TO GRAY CLAY		11										
630.10			12										
629.10			13	5	SS	1.9	18	B	17				
628.10			14										
627.10			15										
626.10	VERY STIFF GRAY TO REDDISH BROWN CLAY		16	6	SS	2.7	21	B	14				
625.10			17										
624.10			18	7	SS	3.5	25	B	12				
623.10			19										
622.10	VERY DENSE GRAY WEATHERED SHALE		20	8	SS	-	56	-	11				

Groundwater Data: Static Water Elevation 630.6
Comments:



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 2 of 2

Phone: 815-223-6696
Fax: 815-223-6659
E-Mail: Midwest@TheRamp.net

Client: Farnsworth Group
Project Name: Division Street Bridge
Project Site: Pontiac, Illinois

Boring No. 2
Surface Elev. 642.10
Auger Depth 28 1/2' Rotary Depth NA
Start Date 04/30/02 Finish Date 04/30/02


Location: 6' Rt Station 28+09

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS		
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)			Dry Density (PCF)	
621.10													
620.10			22										
619.10			23	9	SS	-	80	-	10				
618.10	VERY DENSE GRAY WEATHERED SHALE		24										
617.10			25										
616.10			26	10	SS	-	97	-	10				
615.10			27										
614.10			28	11	SS	-	100	-	9				
613.10			29										
612.10	PALE GRAY LIMESTONE RDQ = 86%		30										
611.10	(CORE) 100% Recovery		31										
610.10			32										
609.10			33										
608.10	REDDISH BROWN & GRAY SHALE		34										
607.10	(CORE) 100% Recovery		35										
606.10			36										
605.10			37										
604.10			38										
603.10			39										
602.10			40										
601.10			41										

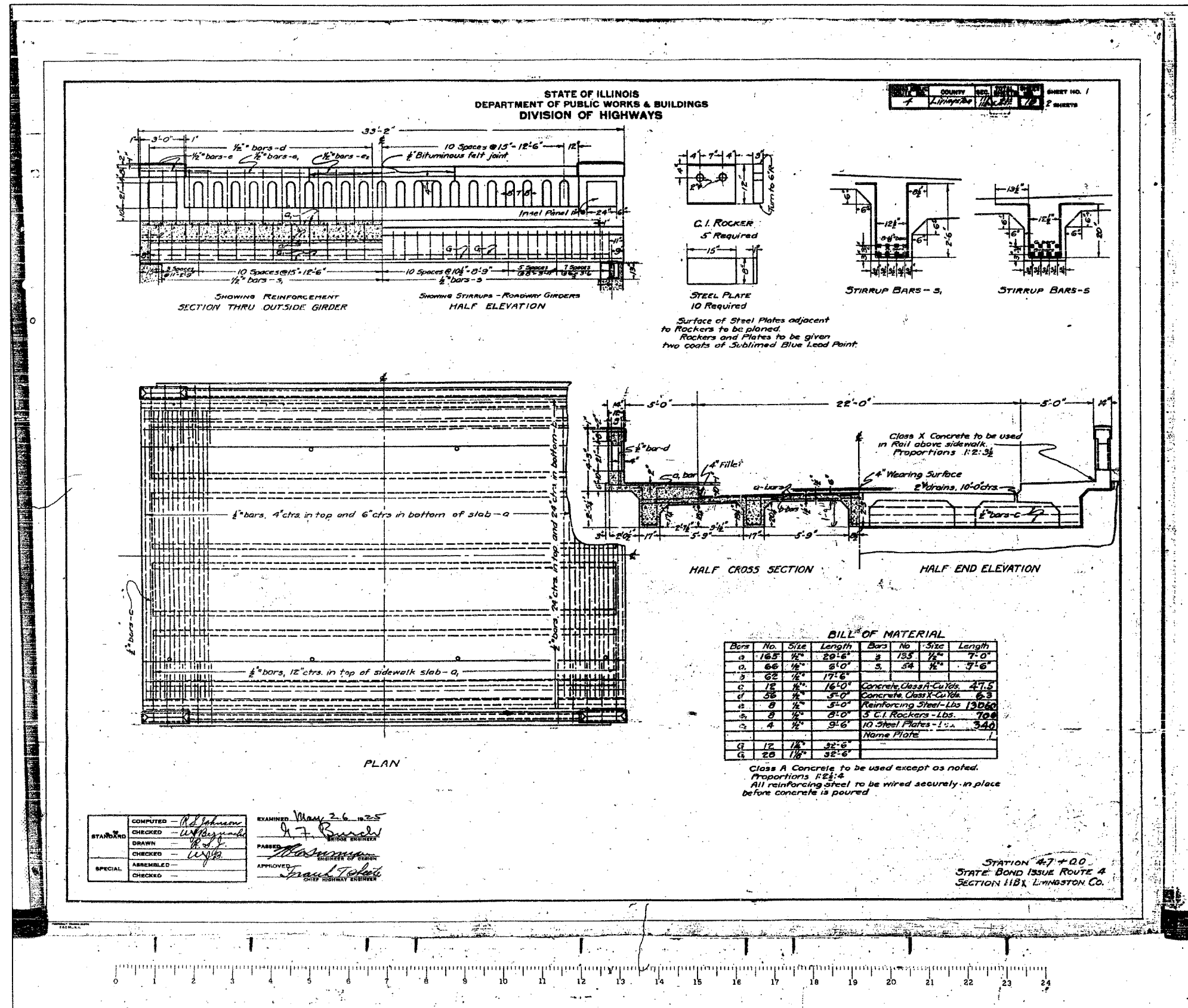
Groundwater Data:
Comments:

SECTION 02-00090-00-BR
LIVINGSTON COUNTY
PONTIAC, ILLINOIS

BORING LOGS

DESIGNED BY J.M.L.	 Farnsworth GROUP 2700 McGraw Drive Bloomington, Illinois 61704 309/888-8136, 309/888-8771 fax	FILE NO. 24-6884
DRAWN BY D.J.M.		DATE 01-14-05
CHECKED BY M.S.W.		SHEET NO. 23 of 31

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. B17 OF 18 SHEETS
6325	02-00090-00-BR	LIVINGSTON	31	24	
STA.	TO STA.				
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT			
CONTRACT NO. 87238					



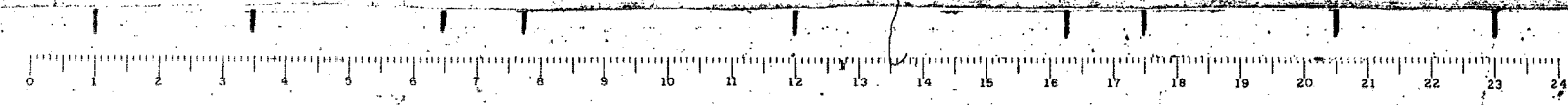
FOR INFORMATIONAL
USE ONLY

COMPUTED	- R.D. Johnson	EXAMINED	May 26 1935
CHECKED	- W.F. Reynolds	DRAWN BY	J.F. Burch
DRAWN	- W.F. Reynolds	PASSED	[Signature]
CHECKED	- W.F. Reynolds	DIRECTOR OF STATE	
SPECIAL	ASSEMBLED	APPROVED	[Signature]
CHECKED		CHIEF HIGHWAY ENGINEER	

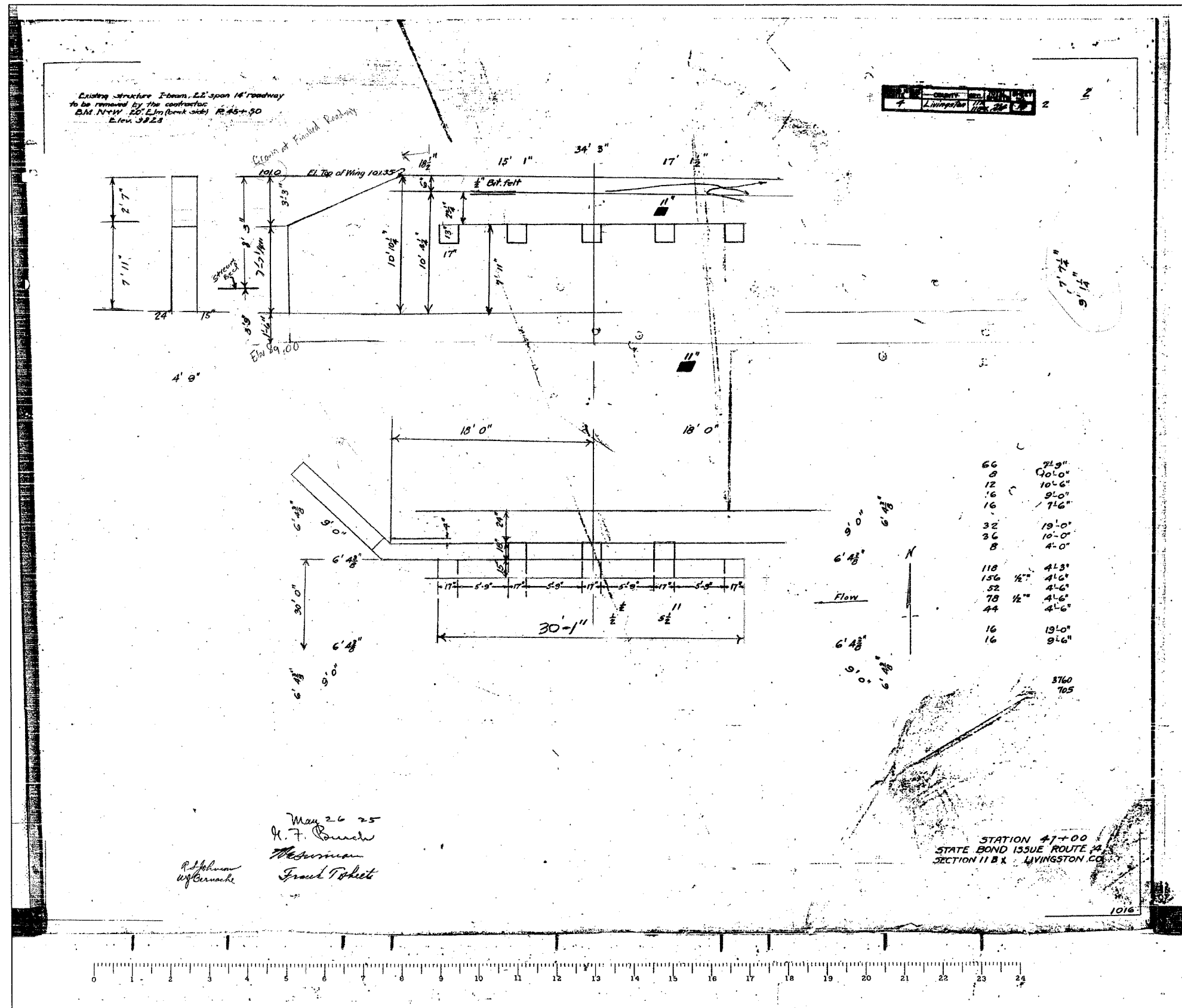
SECTION 02-00090-00-BR
LIVINGSTON COUNTY
PONTIAC, ILLINOIS

EXISTING PLANS

DESIGNED BY J.M.L.	Farnsworth GROUP 2700 McGraw Drive Bloomington, Illinois 61704 309/339-8000, 309/339-8711 fax	FILE NO. 24-6884
DRAWN BY D.J.M.		DATE 01-14-05
CHECKED BY M.S.W.		SHEET NO. 24 of 31



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. B18 OF 18 SHEETS
6325	02-00090-00-BR	LIVINGSTON	31	25	
STA. TO STA.		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT*			
CONTRACT NO. 87238					

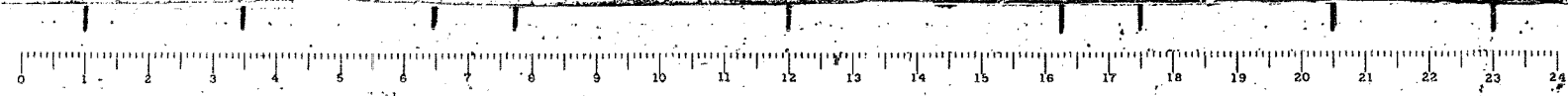


66	21.9"
8	30.0"
12	10.6"
16	9.0"
16	7.6"
32	19.0"
36	10.0"
8	4.0"
118	41.3"
156	1/2" 41.6"
52	4.6"
78	1/2" 4.6"
44	4.6"
16	19.0"
16	9.6"

FOR INFORMATIONAL
USE ONLY

May 26 25
H. F. Burch
McSwain
Frank Tothert

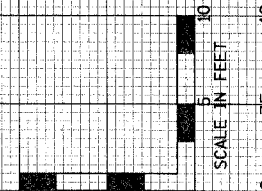
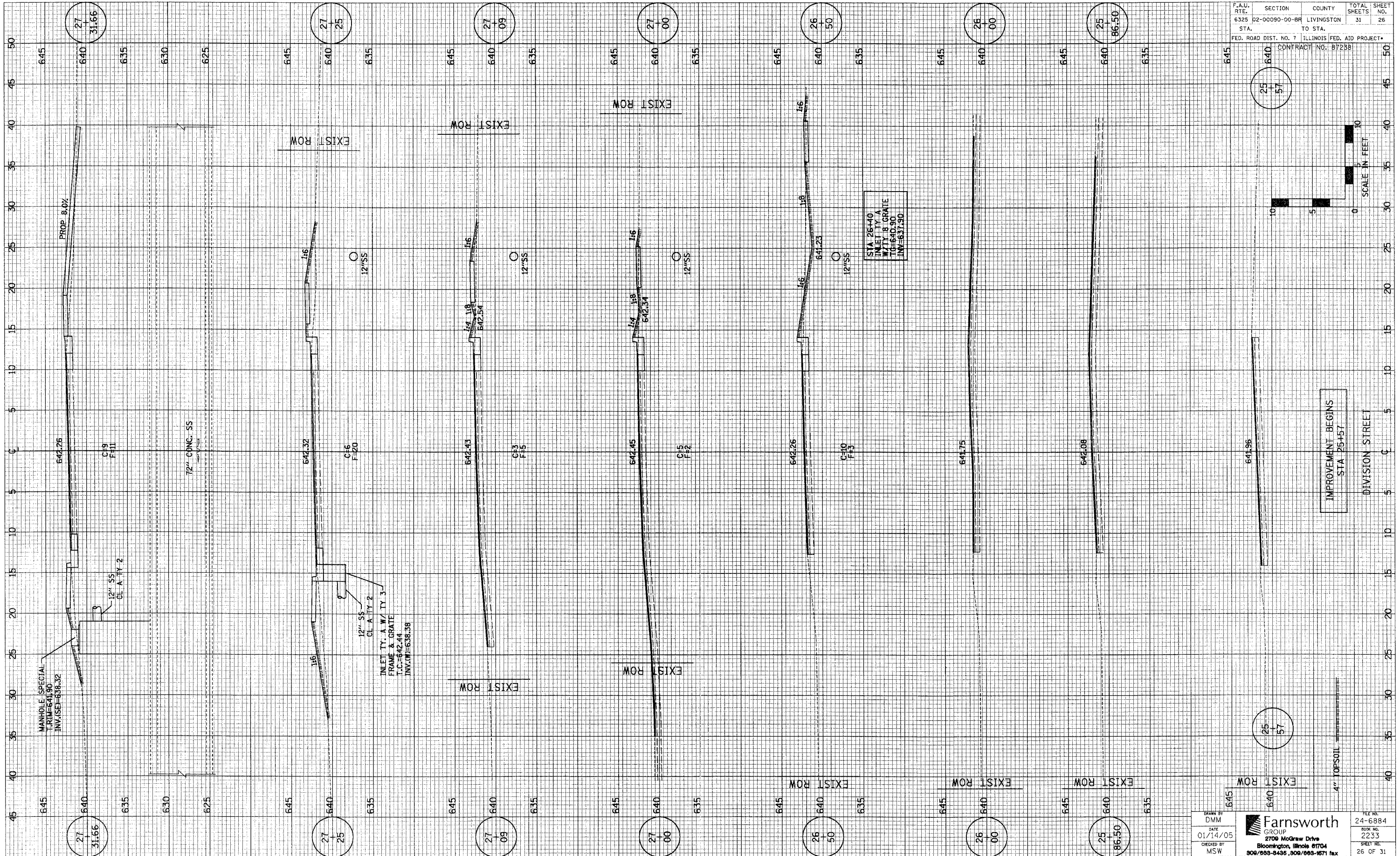
STATION 47+00
STATE BOND ISSUE ROUTE 24
SECTION 11 BR - LIVINGSTON CO.



SECTION 02-00090-00-BR
LIVINGSTON COUNTY
PONTIAC, ILLINOIS

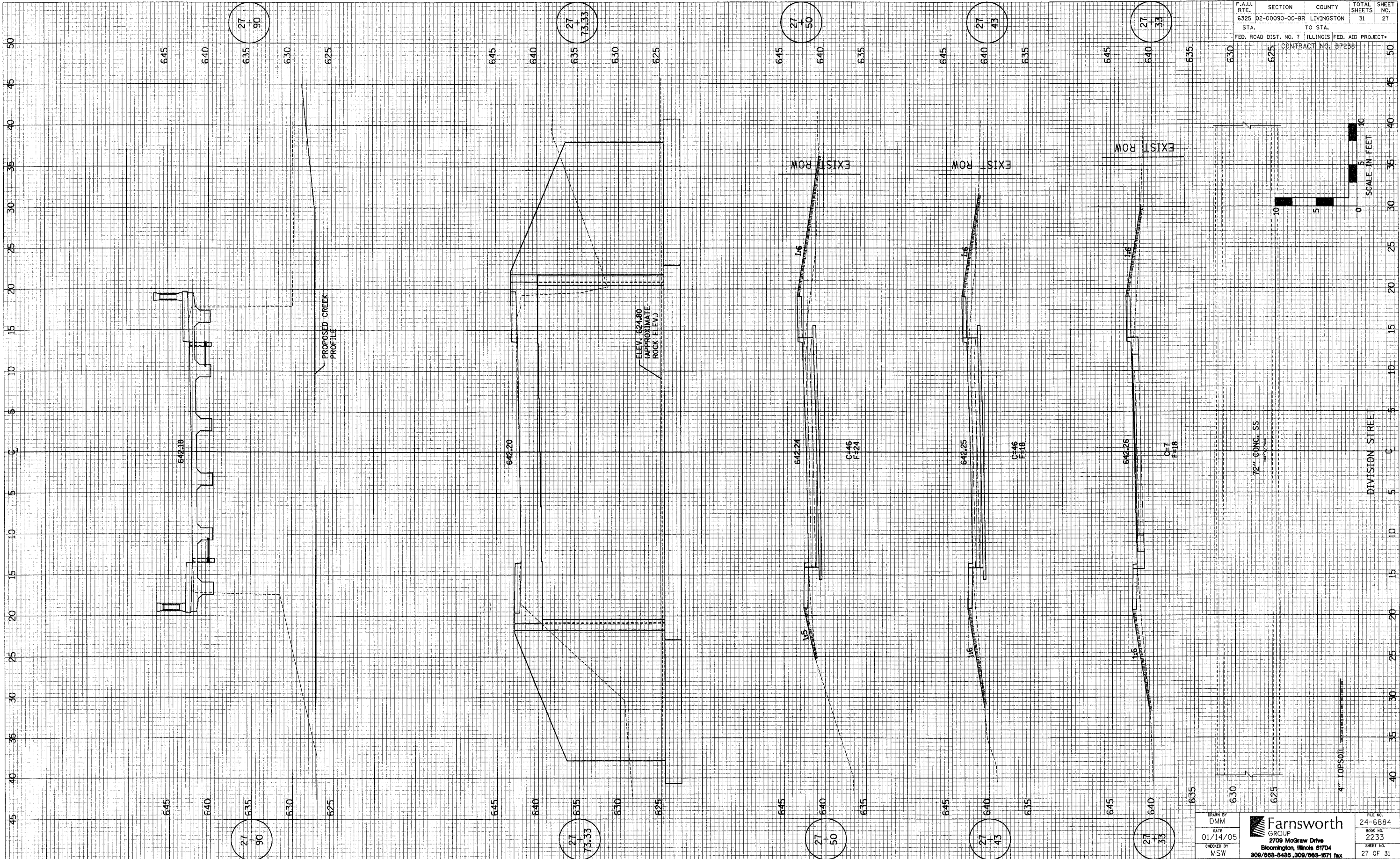
EXISTING PLANS

DESIGNED BY J.M.L.	 2700 McGraw Drive Bloomington, Illinois 61704 309.488-6166 309.889-9071 fax	FILE NO. 24-6884
DRAWN BY D.J.M.		DATE 01-14-05
CHECKED BY M.S.W.		SHEET NO. 25 of 31



IMPROVEMENT BEGINS
 STA 25+57
 DIVISION STREET

DRAWN BY DMM DATE 01/14/05 CHECKED BY MSW	Farnsworth GROUP 2700 McGraw Drive Bloomington, Illinois 61704 309/663-8435, 309/663-1671 fax	FILE NO. 24-6884 DRAW NO. 2233 SHEET NO. 26 OF 31
--	--	--



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6325	02-00090-00-BR	LIVINGSTON	31	27
STA.	TO STA.			
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT*				
CONTRACT NO. 97238				

27
90

27
73.33

27
50

27
43

27
33

27
90

27
73.33

27
50

27
43

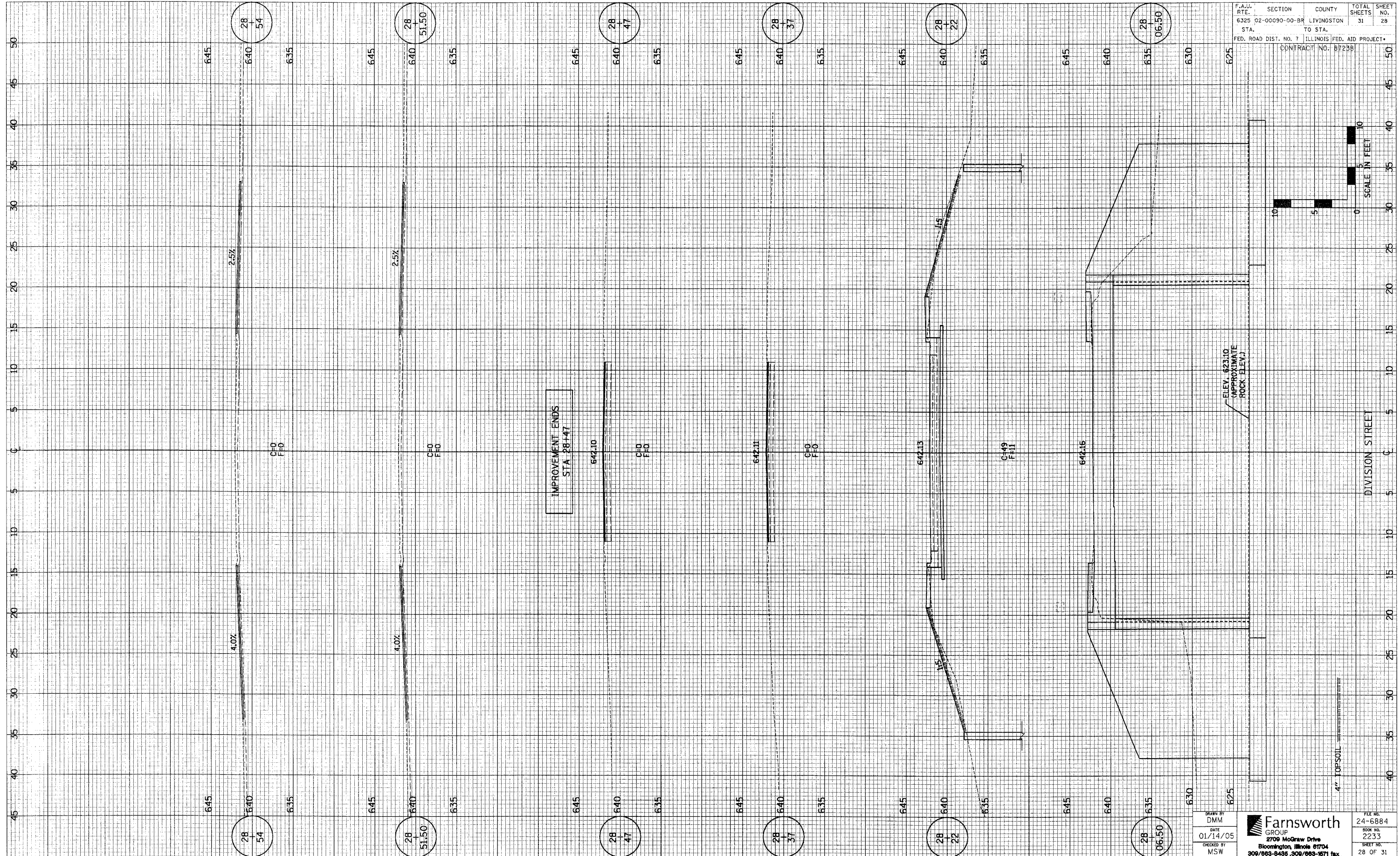
27
33

DRAWN BY
DMM
DATE
01/14/05
CHECKED BY
MSW

Farnsworth
GROUP
2709 McGraw Drive
Bloomington, Illinois 61704
309/883-6436, 309/883-1671 fax

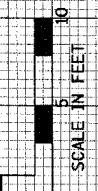
FILE NO.
24-6884
BOOK NO.
2233
SHEET NO.
27 OF 31

F.A.U. SECTION COUNTY TOTAL SHEET
 RTE. 02-00090-00-BR LIVINGSTON SHEETS NO.
 6325 TO STA. 28
 STA. TO STA. 31
 FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT
 CONTRACT NO. B7238



IMPROVEMENT ENDS
 STA 28+47

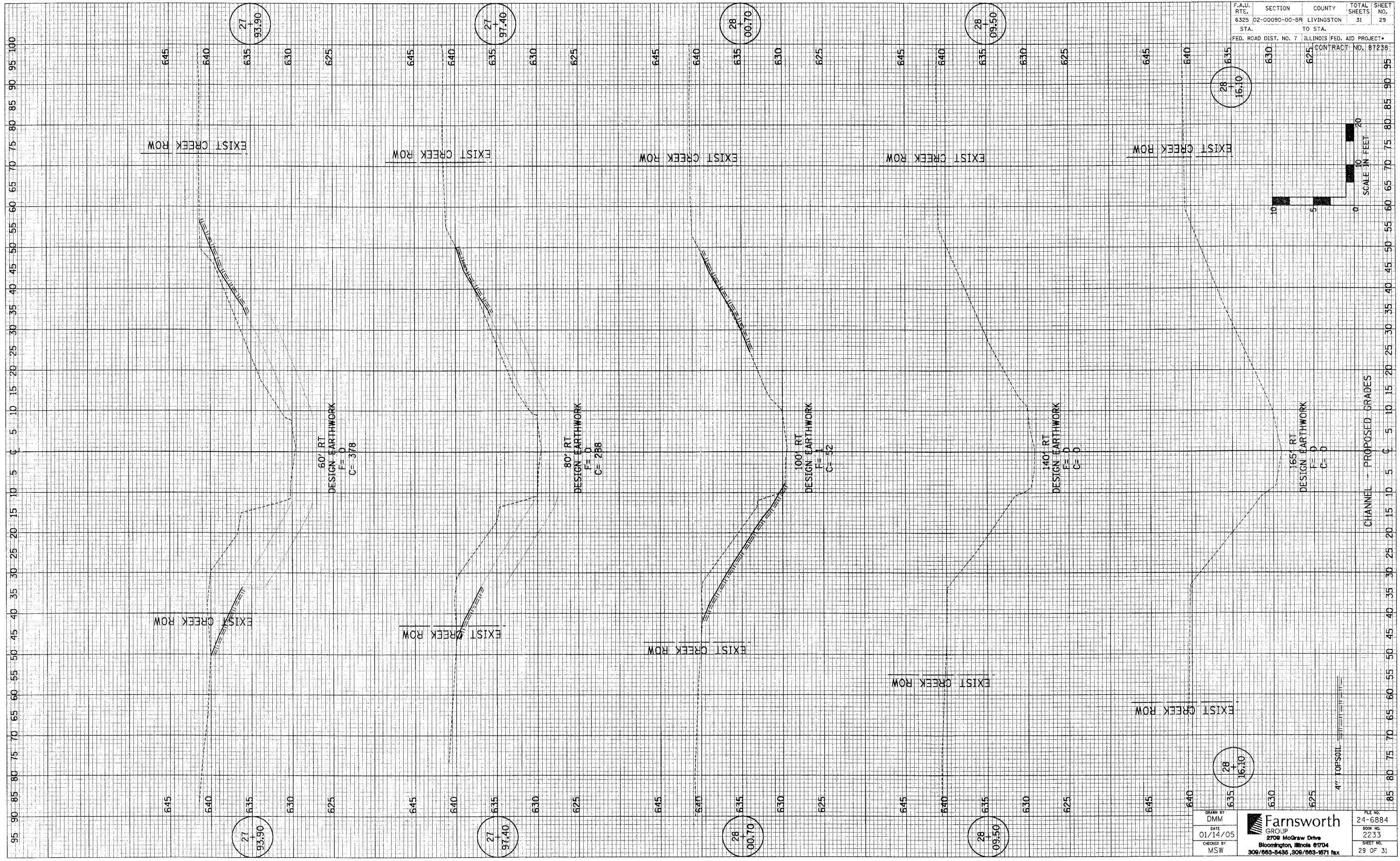
ELEV. 623.10
 (APPROXIMATE
 ROCK ELEV.)



DESIGNED BY
 DMM
 DATE
 01/14/05
 CHECKED BY
 MSW

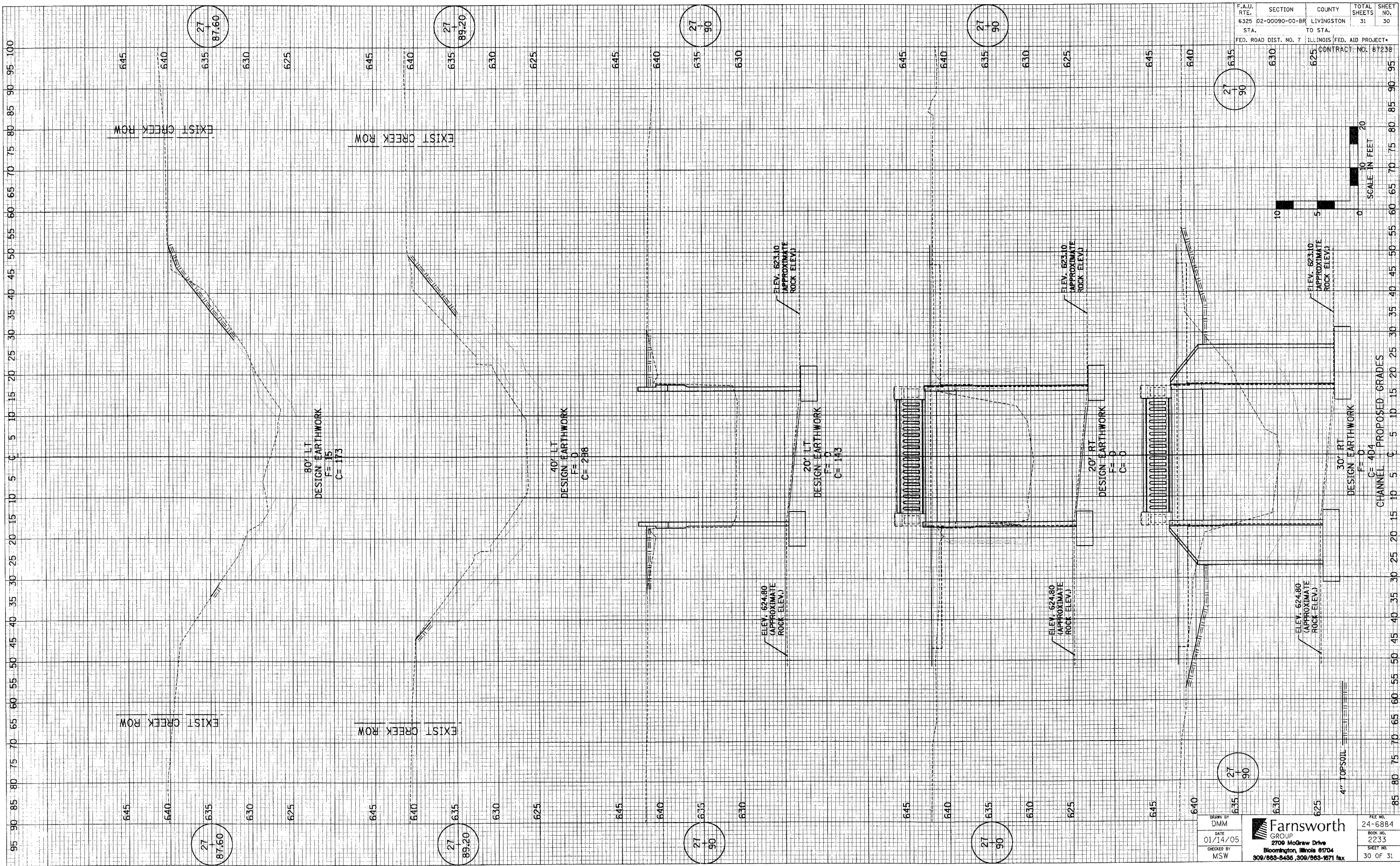
Farnsworth
 GROUP
 2709 MoDraw Drive
 Bloomington, Illinois 61704
 309/663-8435, 309/663-1671 fax

FILE NO.
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 BOOK NO.
 2233
 SHEET NO.
 28 OF 31

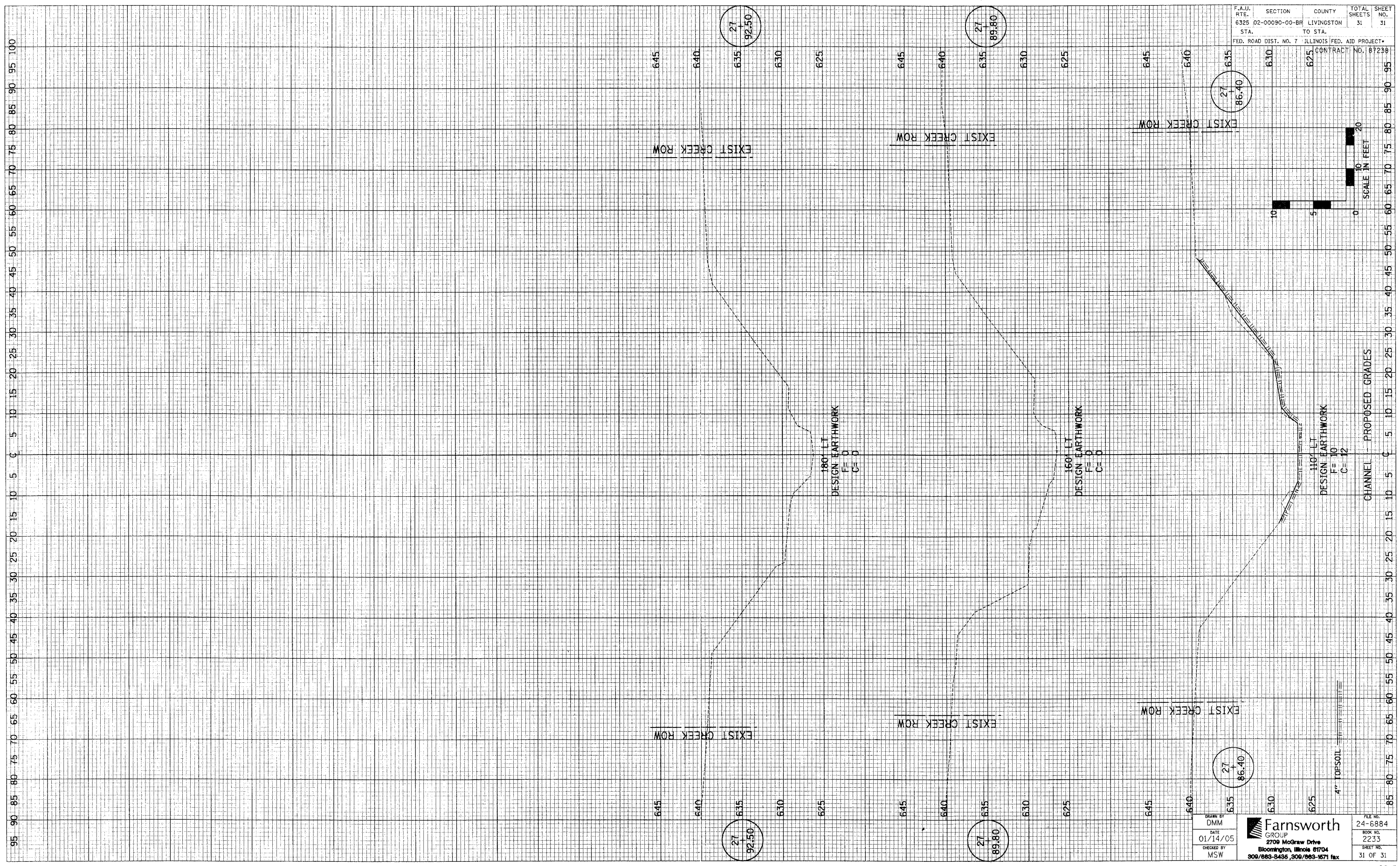


DRAWN BY DMM DATE 01/14/05 CHECKED BY MSW	Farnsworth GROUP 2708 McGraw Drive Bloomington, Illinois 61704 309/863-8436, 309/863-1671 fax	FILE NO. 24-6884 BOOK NO. 2233 SHEET NO. 29 OF 31
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6325	02-00090-00-BR	LIVINGSTON	31	30
STA.	TO STA.		ILLINOIS FED. AID PROJECT	
FED. ROAD DIST. NO. 7	CONTRACT NO. 87238			



DRAWN BY DMM		FILE NO. 24-6884
DATE 01/14/05		BOOK NO. 2233
CHECKED BY MSW	2709 McGraw Drive Bloomington, Illinois 61704 309/663-8436 309/663-1671 fax	SHEET NO. 30 OF 31



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6325	02-00090-00-BR	LIVINGSTON	31	31
STA.	TO STA.		CONTRACT NO.	
			87238	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT*				

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 DMM
 DATE
 01/14/05
 CHECKED BY
 MSW

Farnsworth
 GROUP
 2709 McGraw Drive
 Bloomington, Illinois 61704
 309/883-8436, 309/883-1671 fax

FILE NO.
 24-6884
 BOOK NO.
 2233
 SHEET NO.
 31 OF 31