

VOLUME I

SHEET NO.	DRAWING NO.	DESCRIPTION
1	CV-1	COVER SHEET
2	IS-1	INDEX OF SHEETS
3	HS-1	HIGHWAY STANDARDS
4	GN-1	GENERAL NOTES AND COMMITMENTS
5-11	SQ-1 to SQ-7	SUMMARY OF QUANTITIES
12-17	TS-1 to TS-6	TYPICAL SECTIONS
18-28	SC-1 to SC-11	SCHEDULES OF QUANTITIES
29-37	AT-1 to AT-9	ALIGNMENTS, TIES, AND BENCHMARKS
38-52	EX-1 to EX-15	EXISTING PLAN AND REMOVALS
53-67	PR-1 to PR-15	PROPOSED PLAN
68-70	PF-1 to PF-3	ARSENAL ROAD PROFILE
71-74	PF-4 to PF-7	WEST FRONTAGE CONNECTOR PROFILE
75	PF-8	WEST FRONTAGE ROAD PROFILE
76-77	PF-9 to PF-10	EAST FRONTAGE ROAD PROFILE
78	PF-11	RAMP A PROFILE
79-81	PF-12 to PF-14	RAMP B PROFILE
82-83	PF-15 to PF-16	RAMP C PROFILE
84	PF-17	RAMP D PROFILE
85	PF-18	RAMP E PROFILE
86	UF-1	GAS LINE PROFILE
87	MOT-1	MAINTENANCE OF TRAFFIC GENERAL NOTES
88	MOT-2	MAINTENANCE OF TRAFFIC TYPICAL SECTIONS AND DETAILS
89-100	MOT-3 to MOT-14	MAINTENANCE OF TRAFFIC STAGE 1
101-102	MOT-15 to MOT-16	MAINTENANCE OF TRAFFIC STAGE 1A
103-104	MOT-17 to MOT-18	MAINTENANCE OF TRAFFIC STAGE 1B
105-112	MOT-19 to MOT-26	MAINTENANCE OF TRAFFIC STAGE 2
113	MOT-27	MAINTENANCE OF TRAFFIC STAGE 2A
114	MOT-28	MAINTENANCE OF TRAFFIC STAGE 2B
115-124	MOT-29 to MOT-38	MAINTENANCE OF TRAFFIC STAGE 3
125	MOT-39	DETOUR PLAN
126	EN-1	EROSION AND SEDIMENT CONTROL GENERAL NOTES AND LEGEND
127	EN-2	EROSION AND SEDIMENT CONTROL GENERAL NOTES AND STRATEGY
128-142	EC-1 to EC-15	EROSION AND SEDIMENT CONTROL PLAN
143	ED-1	EROSION AND SEDIMENT CONTROL DETAILS
144-158	DU-1 to DU-15	DRAINAGE AND UTILITY PLAN
159-161	DU-16 to DU-18	DRAINAGE STRUCTURE AND PIPE INFORMATION TABLE
162	DU-19	DRAINAGE DETAILS
163	DU-20	RESTRICTOR MANHOLE DETAIL
164	DU-21	RIPRAP DETAIL
165	DU-22	RIPRAP SCHEDULE
166-168	DP-1 to DP-3	ARSENAL ROAD DRAINAGE PROFILE
169-172	DP-4 to DP-7	WEST FRONTAGE CONNECTOR DRAINAGE PROFILE
173	DP-8	WEST FRONTAGE ROAD DRAINAGE PROFILE
174-175	DP-9 to DP-10	EAST FRONTAGE ROAD DRAINAGE PROFILE
176	DP-11	RAMP A DRAINAGE PROFILE
177-179	DP-12 to DP-14	RAMP B DRAINAGE PROFILE
180-181	DP-15 to DP-16	RAMP C DRAINAGE PROFILE
182	DP-17	RAMP D DRAINAGE PROFILE
183	DP-18	RAMP E DRAINAGE PROFILE
184-198	GP-1 to GP-15	GRADING PLAN
199-218		SUE INVESTIGATION OF UNDERGROUND UTILITIES
219-235		PLAT OF HIGHWAYS
236-238	PJ-1 to PJ-3	PAVEMENT JOINTS AND ELEVATIONS
239-249	EL-1 to EL-11	SUPERELEVATION DETAILS
250-264	PM-1 to PM-15	PAVEMENT MARKING PLAN
265-279	LS-1 to LS-15	LANDSCAPE PLAN
280-283	SI-1 to SI-4	EXISTING SIGNING PLAN
284-287	SI-5 to SI-8	PROPOSED SIGNING PLAN
288-290	SD-1 to SD-3	SIGNING DETAILS
291	RL-G1	ELECTRICAL SYMBOLS, ABBREVIATIONS AND GENERAL NOTES
292-294	RL-P1 to RL-P3	RAMP D - TEMPORARY LIGHTING PLAN
295-298	RL-D1 to RL-D4	TEMPORARY LIGHTING DETAILS
299	UD-1	UTILITY PAD DETAILS

VOLUME II

300	CV-2	COVER SHEET
301	IS-2	INDEX OF SHEETS
302	RW1-1	GENERAL PLAN & ELEVATION, STRUCTURE NO. 099-W026
303-304	RW1-2 TO RW1-3	MSE WALL-PLAN & ELEVATION, STRUCTURE NO. 099-W026
305-306	RW1-4 TO RW1-5	SECTIONS & DETAILS, STRUCTURE NO. 099-W026
307-310	RW1-6 TO RW1-9	SOIL BORING DATA, STRUCTURE NO. 099-W026
311	RW3-1	GENERAL PLAN & ELEVATION, STRUCTURE NO. 099-W028
312	RW3-2 TO RW3-4	GENERAL DETAILS & BILL OF MATERIAL, STRUCTURE NO. 099-W028
313-315	RW3-3 TO RW3-5	MSE WALL-PLAN AND ELEVATION, STRUCTURE NO. 099-W028

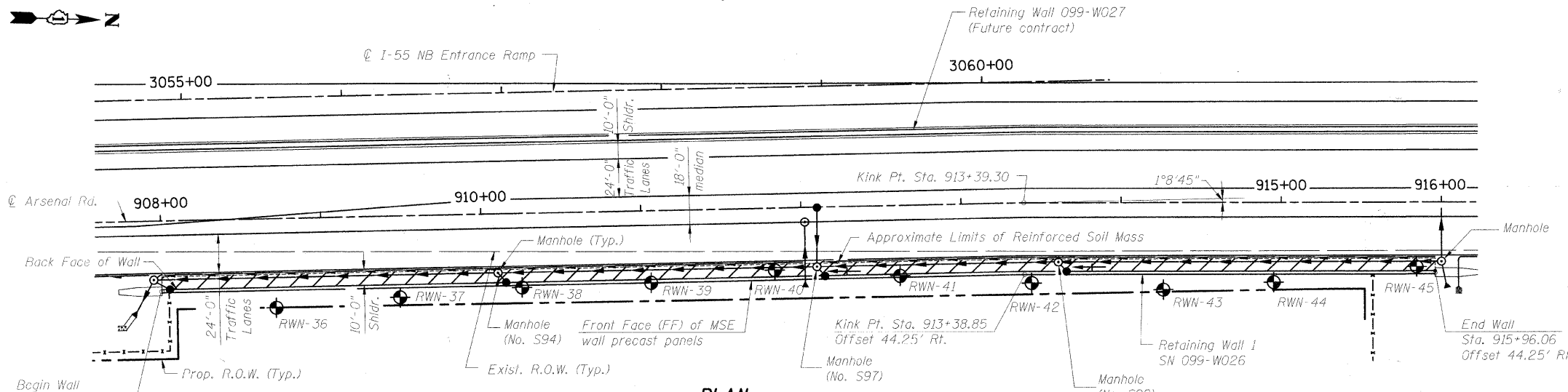
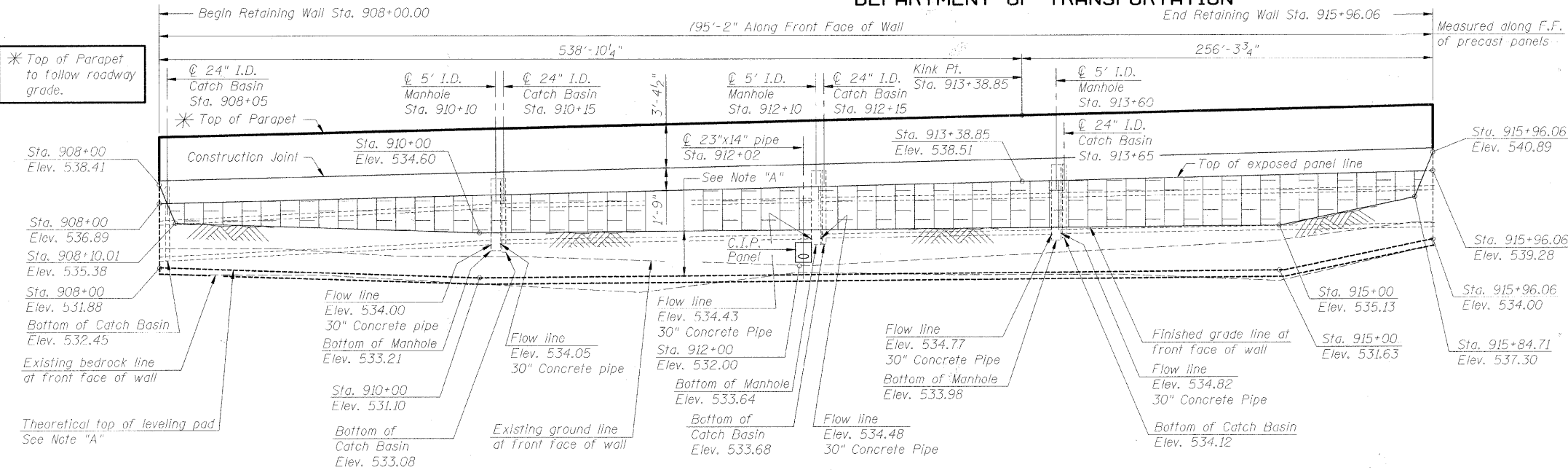
SHEET NO.	DRAWING NO.	DESCRIPTION
316-317	RW3-6 TO RW3-7	SECTIONS & DETAILS, STRUCTURE NO. 099-W028
318-322	RW3-8 TO RW3-12	SOIL BORING DATA, STRUCTURE NO. 099-W028
323	SB-1	GENERAL PLAN AND ELEVATION, STRUCTURE NO. 099-3034
324-326	SB-2 to SB-4	DETAILS, STRUCTURE NO. 099-3034
327	SB-5	GENERAL PLAN AND ELEVATION, STRUCTURE NO. 099-0523
328-329	SB-6 to SB-7	DETAILS, STRUCTURE NO. 099-0523
330	SB-8	GENERAL PLAN AND ELEVATION, STRUCTURE STA.3007+00
331-332	SB-9 to SB-10	DETAILS, STRUCTURE STA. 3007+00
333	SB-11	GENERAL PLAN AND ELEVATION, STRUCTURE STA.2017+14
334-335	SB-12 to SB-13	DETAILS, STRUCTURE STA. 2017+14
336	SB-14	GENERAL PLAN AND ELEVATION, STRUCTURE STA.2032+25
337-338	SB-15 to SB-16	DETAILS, STRUCTURE STA. 2032+25
339	SB-17	GENERAL PLAN AND ELEVATION, STRUCTURE NO. 099-0524
340-341	SB-18 to SB-19	DETAILS, STRUCTURE NO. 099-0524
342	BD-01	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND CURB OR EDGE GREATER THAN OR EQUAL TO 15' (4.5M)
343	BD-32	BUTT JOINTS AND HMA TAPER
344	BD-34	STEEL PLATE BEAM GUARDRAIL ADJACENT TO CURB AND GUTTER AND STABILIZATION AT TB TTY. 1 SPL.
345	BD-51	BENCHING DETAIL FOR EMBANKMENT WIDENING
346	TC-08	FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS
347	TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
348	TC-11	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
349-350	TC-12	MULTI-LANE FREEWAY PAVEMENT MARKING
351	TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
352	TC-16	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
353	TC-17	TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
354	TC-18	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
355	TC-21	TYPICAL MARKING FOR CLOSING STATE HIGHWAYS
356	TC-26	DRIVEWAY ENTRANCE SIGNING
357	XP-1	CROSS SECTION KEY PLAN
358-359	XT-1 to XT-2	STAGE 1 ARSENAL ROAD CROSS SECTIONS
360-364	XT-3 to XT-7	STAGE 1 WEST FRONTAGE CONNECTOR CROSS SECTIONS
365	XT-8	STAGE 2 WEST FRONTAGE CONNECTOR CROSS SECTIONS
366-367	XT-9 to XT-10	STAGE 1 RAMP D CROSS SECTIONS
368-370	XT-11 to XT-13	STAGE 1A RAMP D CROSS SECTIONS
371-381	XS-1 to XS-11	ARSENAL ROAD CROSS SECTIONS
382-415	XS-12 to XS-45	WEST FRONTAGE CONNECTOR CROSS SECTIONS
416-428	XS-46 to XS-58	WEST FRONTAGE ROAD CROSS SECTIONS
429-458	XS-59 to XS-88	EAST FRONTAGE ROAD CROSS SECTIONS
459-494	XS-89 to XS-124	RAMP B CROSS SECTIONS
495-515	XS-125 to XS-145	RAMP C CROSS SECTIONS
516-519	XS-146 to XS-149	RAMP D CROSS SECTIONS
520-524	XS-150 to XS-154	I-55 CROSS SECTIONS

FILE NAME = 0160C31-SHT-INDEX02.dgn	USER NAME = TKluegel	DESIGNED - MJT	REVISED -
		DRAWN - MJT	REVISED -
	PLOT SCALE = 1:50	CHECKED - DLT	REVISED -
	PLOT DATE = 12/17/2009	DATE - 12/18/09	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	301
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

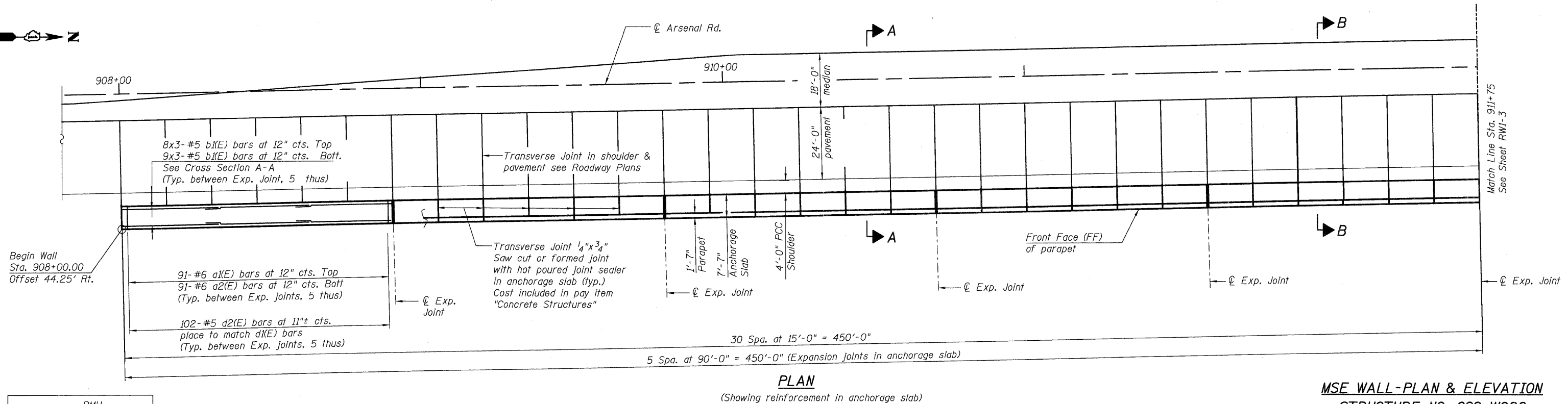
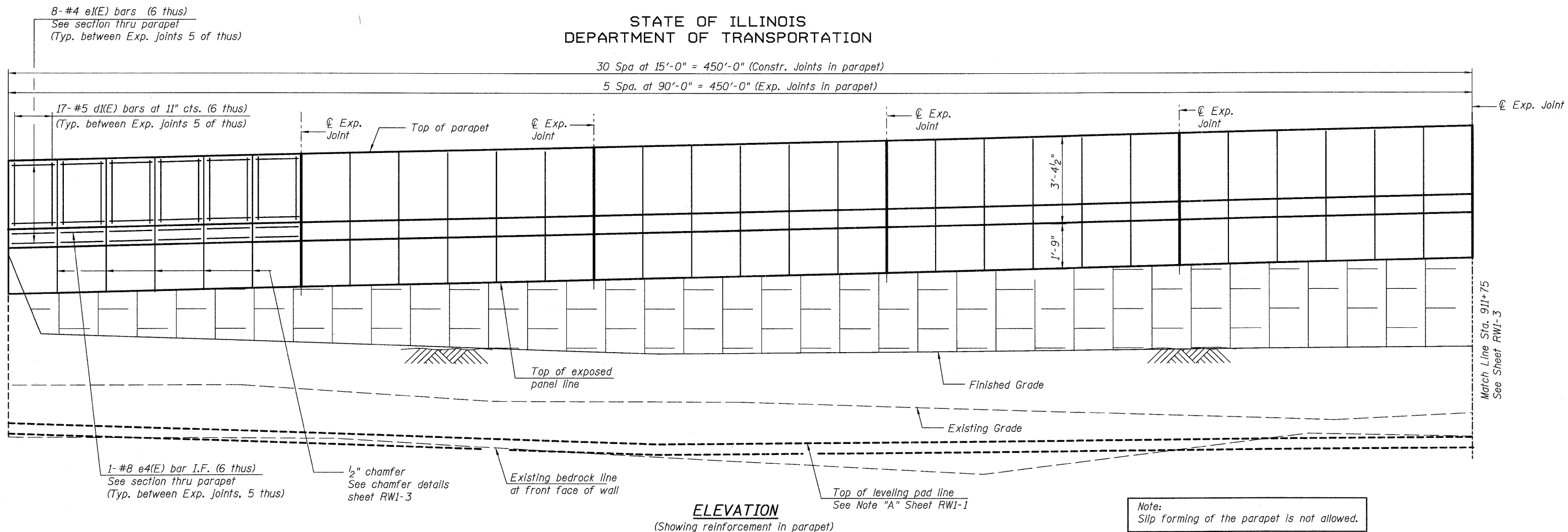
Bench Mark:
RR spike in 2nd power pole N. of CPT 207, 1 ft. above ground, Elev. 534.690
Existing structure : None

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30 Spa. at 15'-0" = 450'-0" (Constr. Joints in parapet)
5 Spa. at 90'-0" = 450'-0" (Exp. Joints in parapet)



DESIGNED	PMH
CHECKED	MJL
DRAWN	RJ
CHECKED	BKB

MIN. LAP

#4 bar = 1'-4"
#5 bar = 1'-8"
#8 bar = 3'-8"

Notes:
Work this sheet with sheet RWI-1 & RW3-3.
For Bill of Material see Sheet RW3-5.

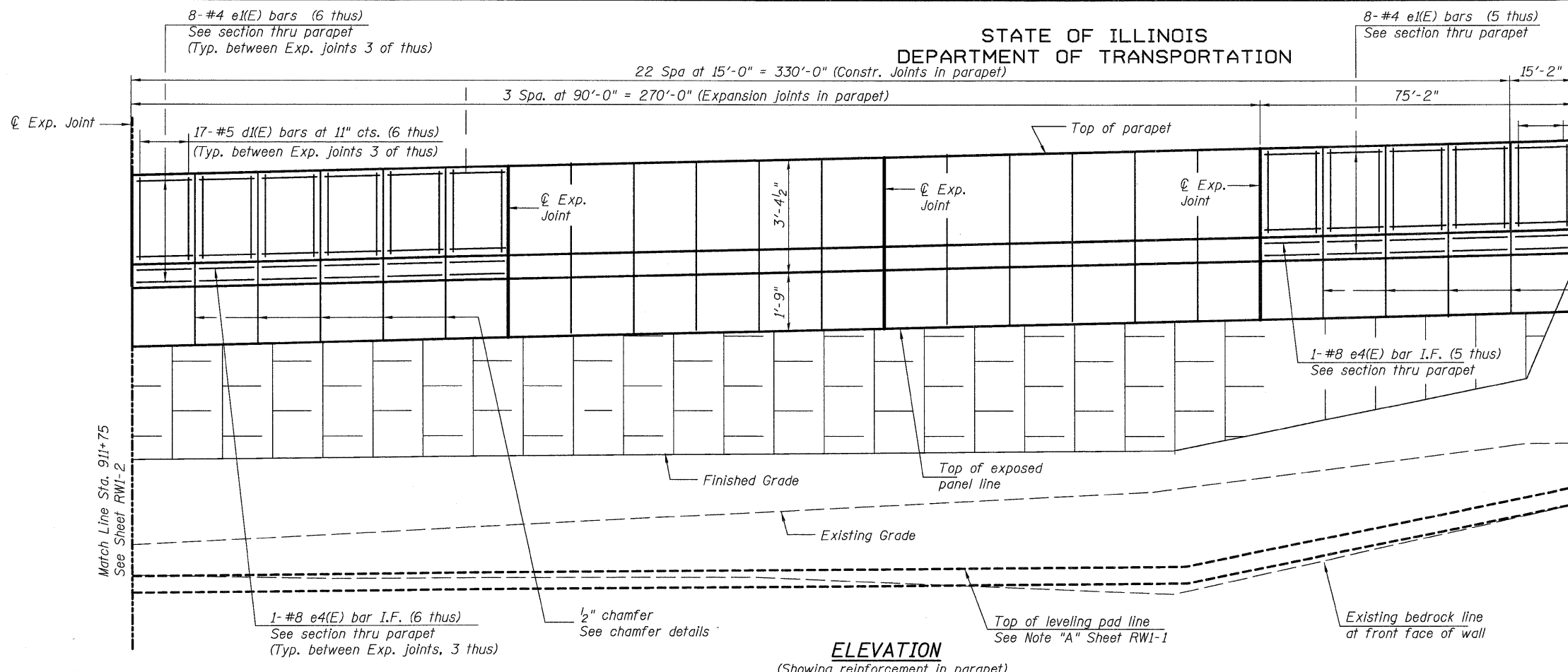


McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

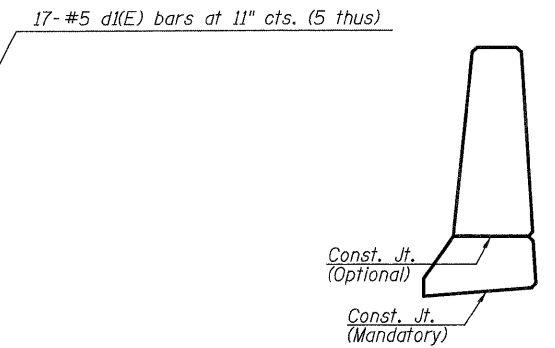
**MSE WALL-PLAN & ELEVATION
STRUCTURE NO. 099-W026**

SHEET NO. RWI-2 SHEETS RWI-9	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2) AC-3	WILL	524	303
CONTRACT NO. 60C31					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

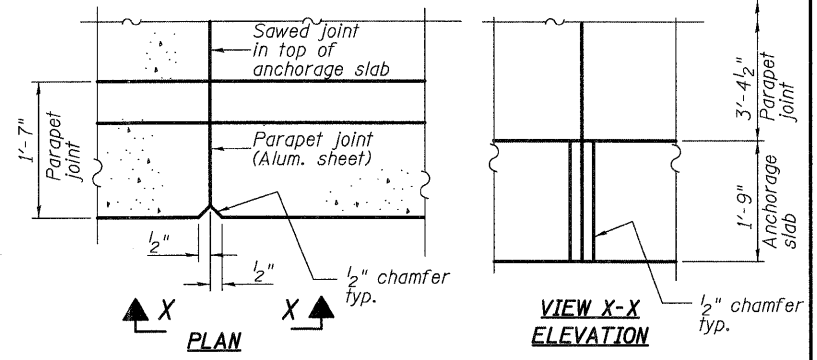
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ELEVATION
(Showing reinforcement in parapet)



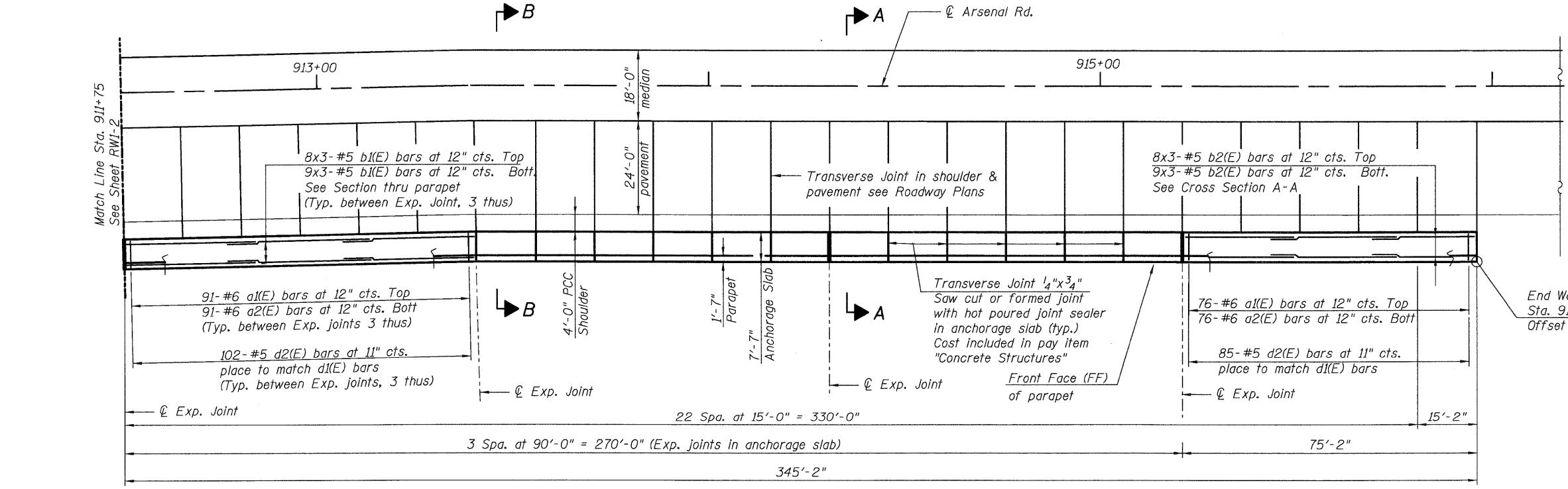
PARAPET JOINT DETAIL
Parapet joints shall be aluminum sheeted full height. 1/8" Aluminum sheet ASTM B 209 alloy 3003-H14, coated to minimize reaction with wet concrete same dimension as section of parapet. Cost included in the pay item "Concrete Structures".



CHAMFER DETAILS

Note:
Slip forming of the parapet is not allowed.

Notes:
Wall offsets are measured from the C/line Arsenal Rd. to the front face of precast panels.
For locations and sizes of manhole and pipe see drainage and utility plans.
Work this sheet with sheets RW1-1 & RW1-2.
For Bill of Material see Sheet RW1-5.
For Sections A-A & B-B see Sheet RW1-4.



PLAN
(Showing reinforcement in anchorage slab)

**MSE WALL-PLAN & ELEVATION
STRUCTURE NO. 099-W026**

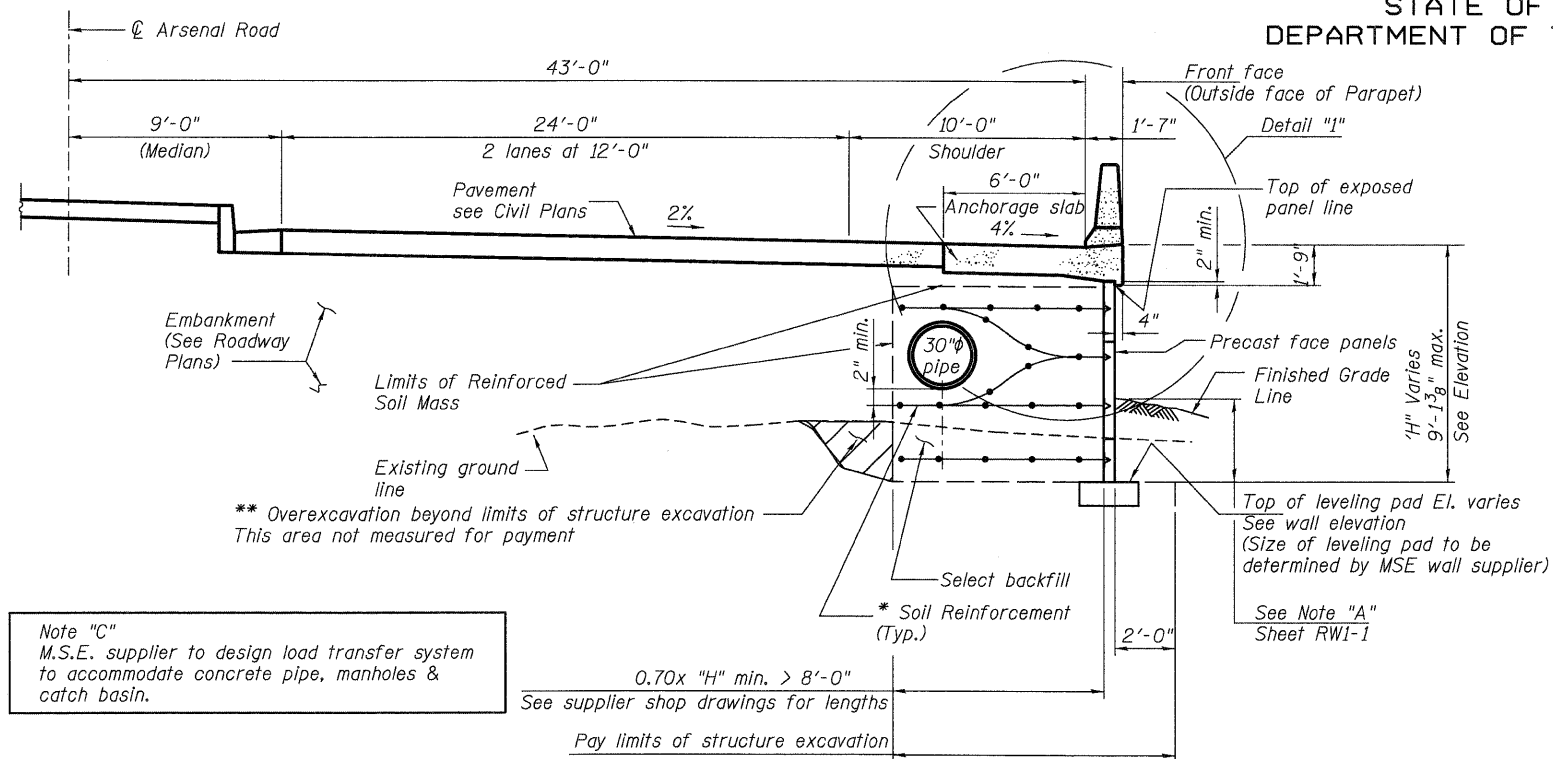
DESIGNED	PMH
CHECKED	MJL
DRAWN	RJ
CHECKED	BKB

MIN. LAP
#4 bar = 1'-4"
#5 bar = 1'-8"
#8 bar = 3'-8"

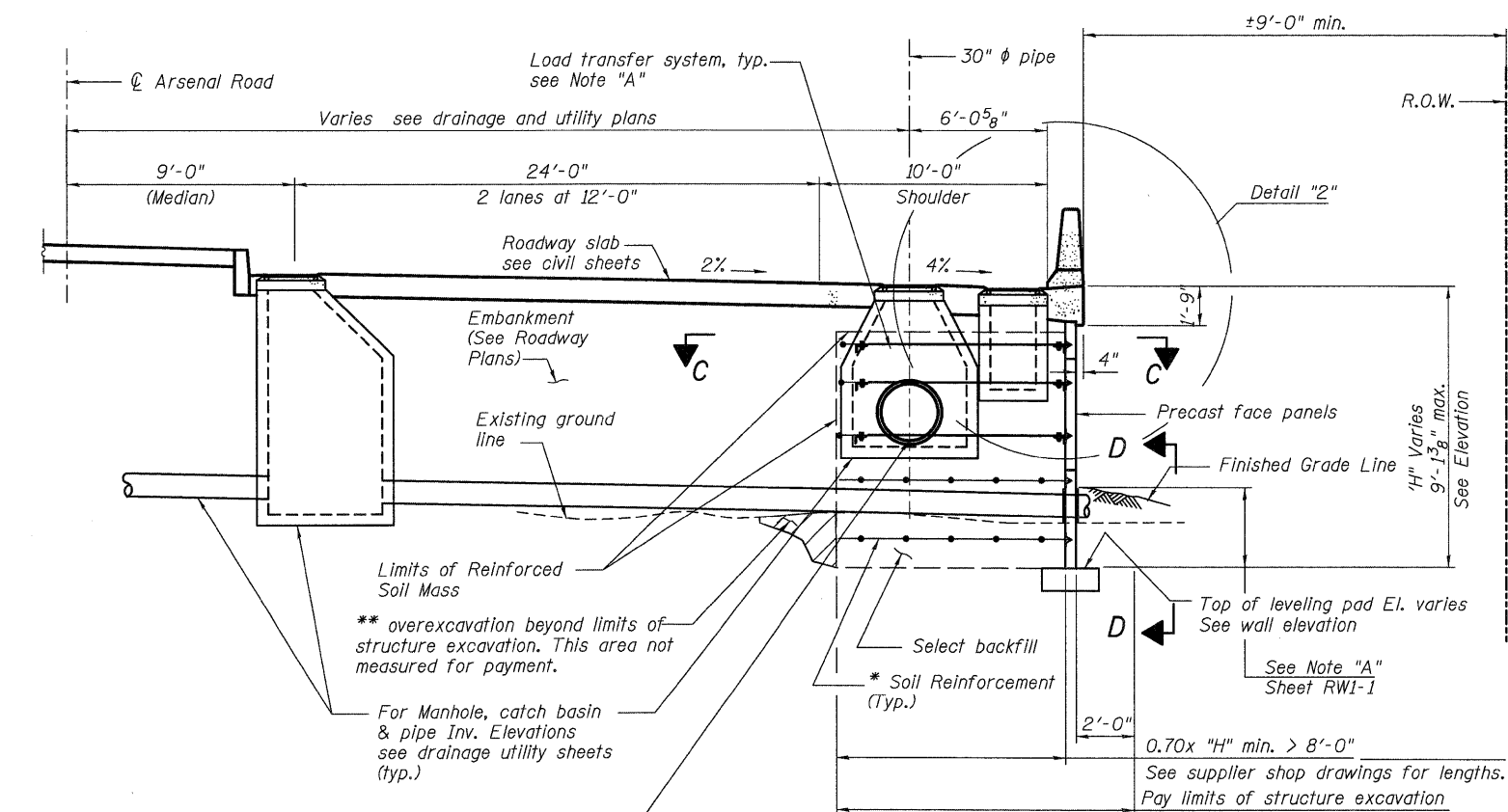
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Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

SHEET NO. RW1-3 SHEETS RW1-9	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2) AC-3	WILL	524	304
CONTRACT NO. 60C31					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

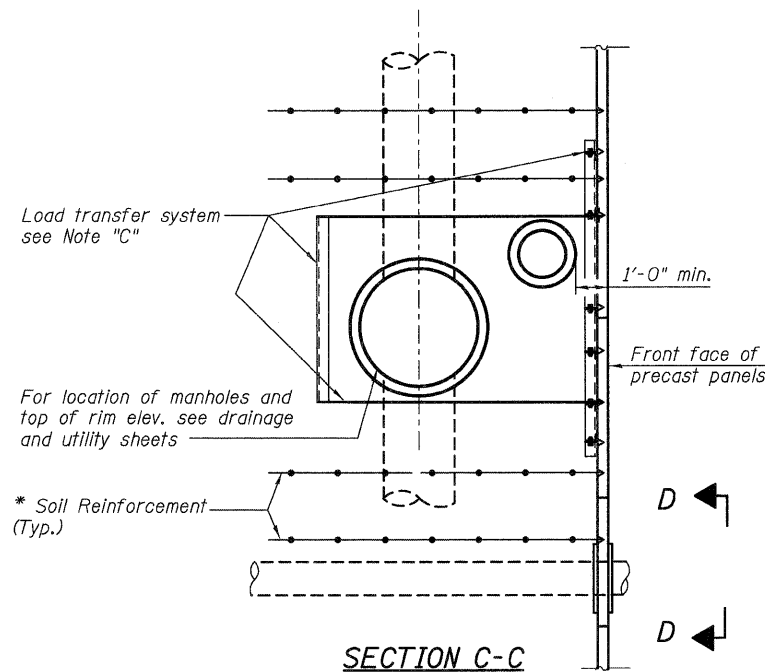
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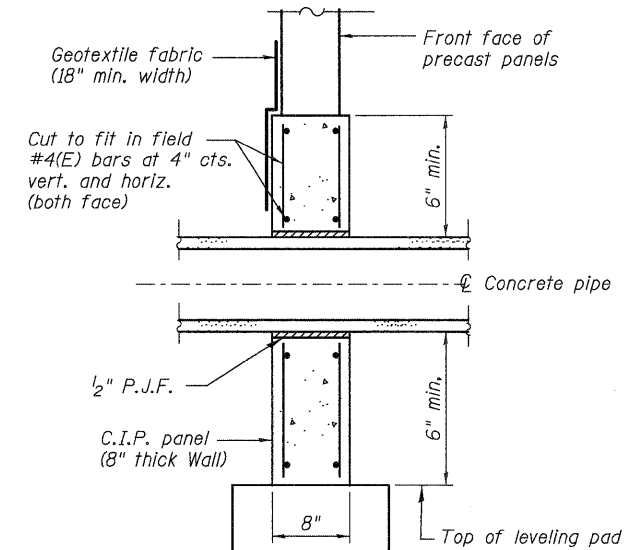
SECTION A-A



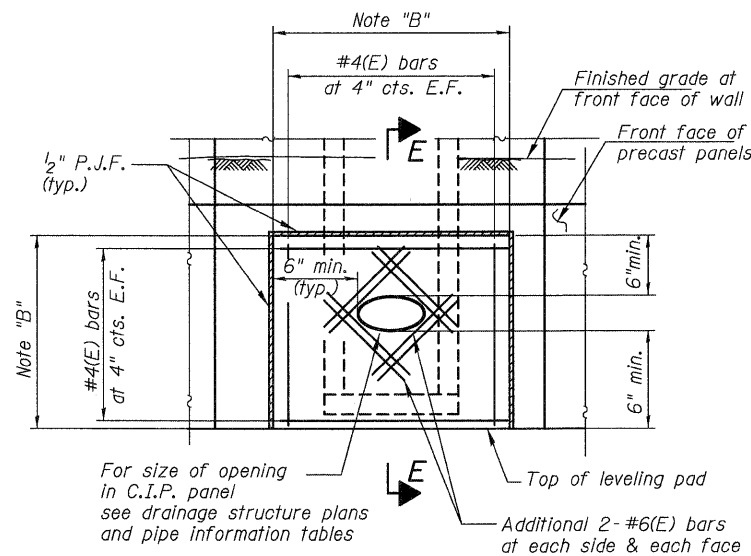
SECTION B-B



SECTION C-C



SECTION E-E
TYPICAL SECTION THROUGH C.I.P. PANEL



VIEW D-D
CAST IN PLACE (C.I.P.) PANEL ELEVATION

Note "B"
Cast-in-place panel (C.I.P.) Dimensions to be determined by Precast panel supplier.
Cost of C.I.P. panels including Reinforcement in the C.I.P. panel is included in the pay item "Mechanically Stabilized Earth Retaining Wall".

Note:
Removal of top soil & unsuitable material will be paid for under item "Removal and Disposal of unsuitable Material for Structures."

Note:
For details 1 & 2 see Sheet RW1-5.

DESIGNED	PMH
CHECKED	MJL
DRAWN	RJ
CHECKED	BKB

*The MSE wall suppliers internal stability design shall account for the anchorage slabs bearing pressure of 1.0 Ksf and horizontal sliding force of 0.5 Kips/ft. of wall.

** Backfill Overexcavation with same material as used for select fill.

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SHEET NO. RW1-4 SHEETS RW1-9	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2) AC-3	WILL	524	305
CONTRACT NO. 60C31					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

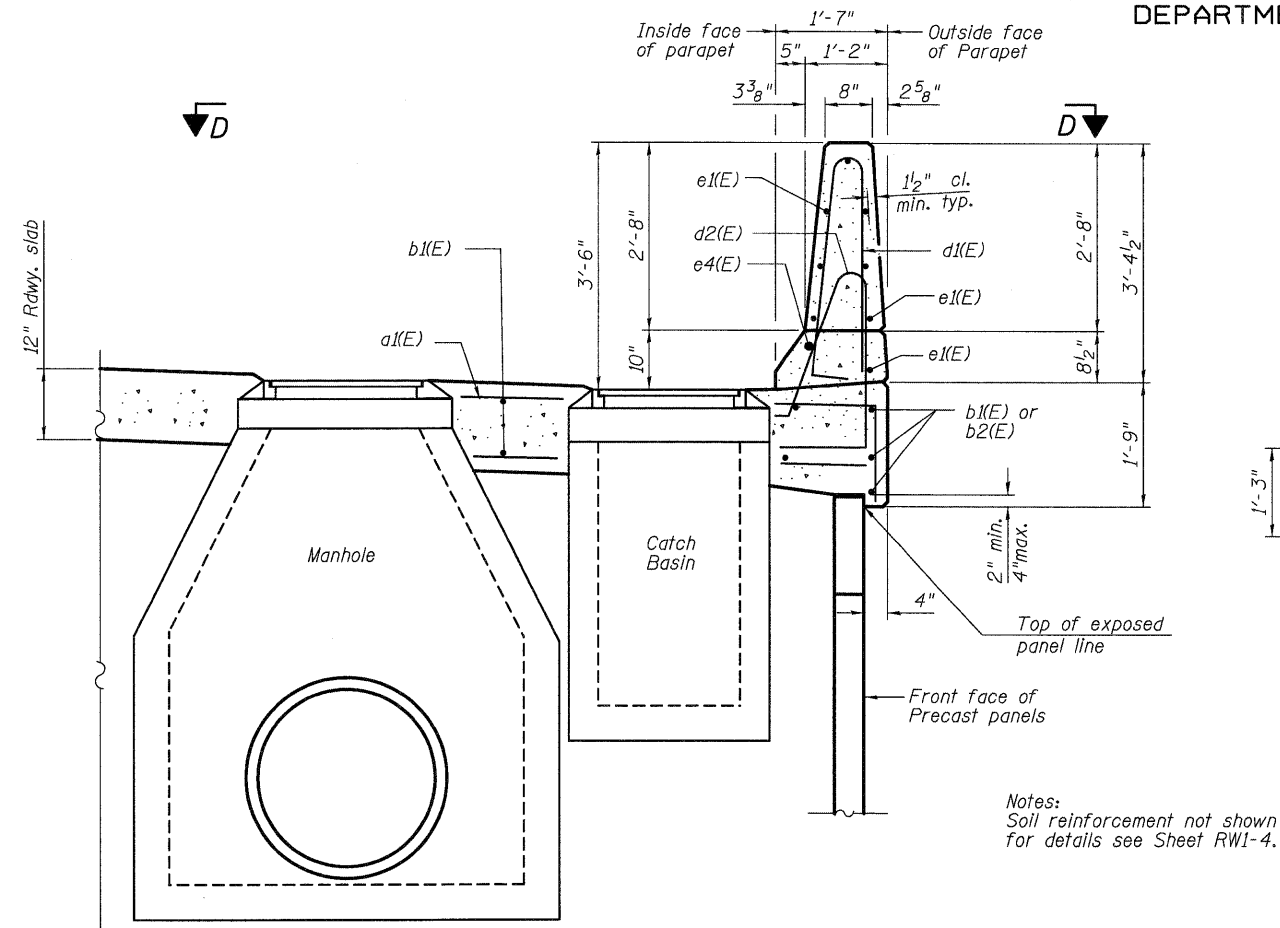
SECTIONS AND DETAILS
STRUCTURE NO. 099-W026

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BILL OF MATERIAL

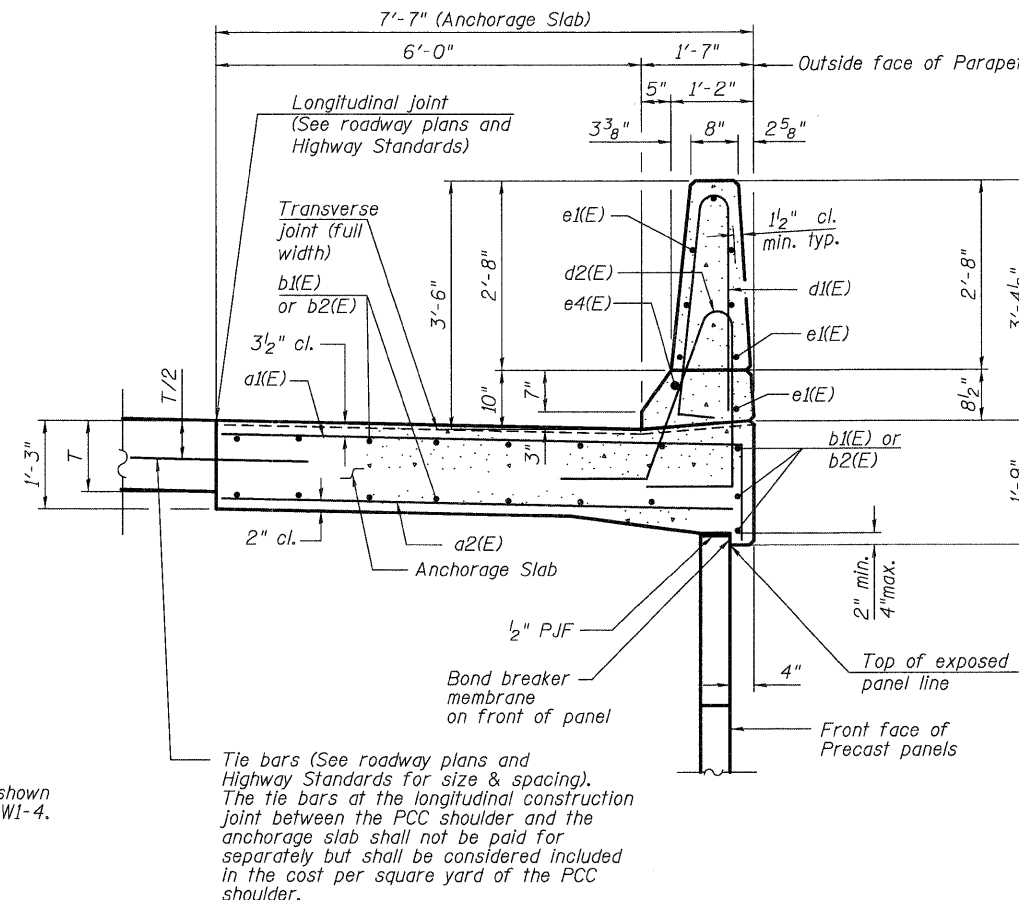
Bar	No.	Size	Length	Shape
a1(E)	804	#6	8'-7"	—
a2(E)	804	#6	7'-3"	—
b1(E)	408	#5	31'-3"	—
b2(E)	51	#5	26'-3"	—
d1(E)	901	#5	6'-10"	—
d2(E)	901	#5	7'-5"	—
e1(E)	424	#4	14'-8"	—
e4(E)	53	#8	14'-8"	—
h1(E)	128	#5	5'-0"	—
Structure Excavation		Cu. Yd.	675	
Concrete Structures		Cu. Yd.	400	
Reinforcement Bars, Epoxy Coated		Pound	54,104	
Mechanically Stabilized Earth Retaining Wall		Sq. Ft.	6,580	
Removal and Disposal of unsuitable material for Structures		Cu. Yd.	277.3	

Notes:
Bars indicated thus 8x3-#5 indicates 8 lines of bars with 3 lengths per line.
Anchorage slab & parapet will be paid under item "Concrete Structures".



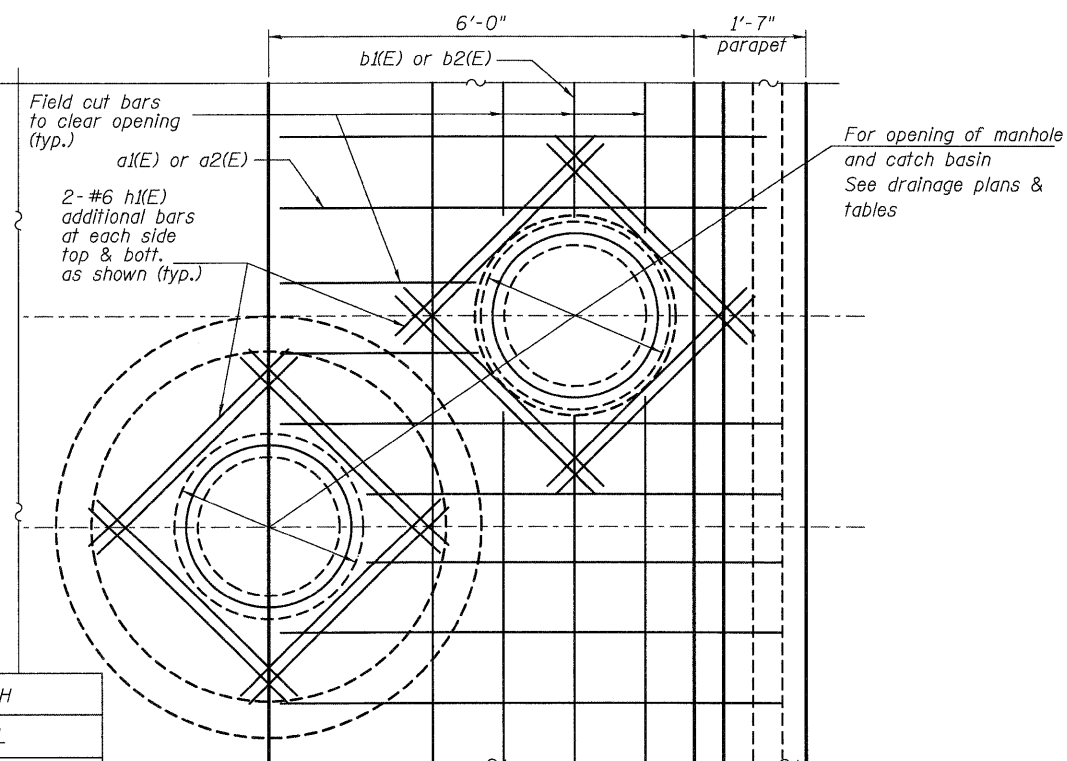
DETAIL "2"

SECTION THRU ANCHORAGE SLAB & PARAPET (AT DRAINAGE STRUCTURES)



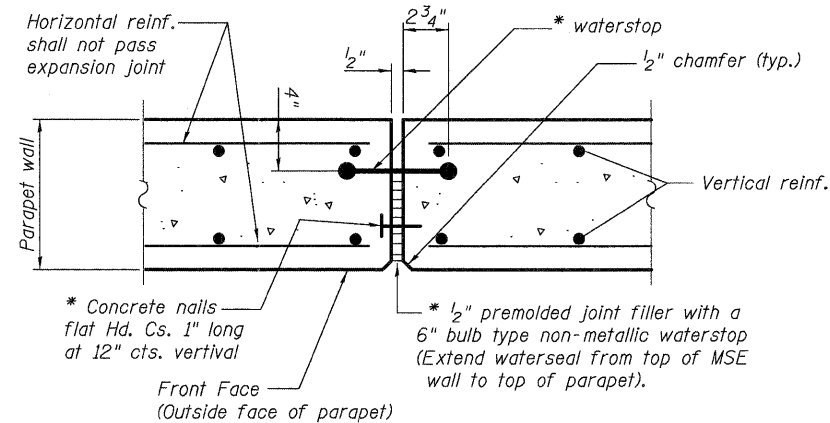
DETAIL "1"

SECTION THRU ANCHORAGE SLAB & PARAPET



VIEW D-D

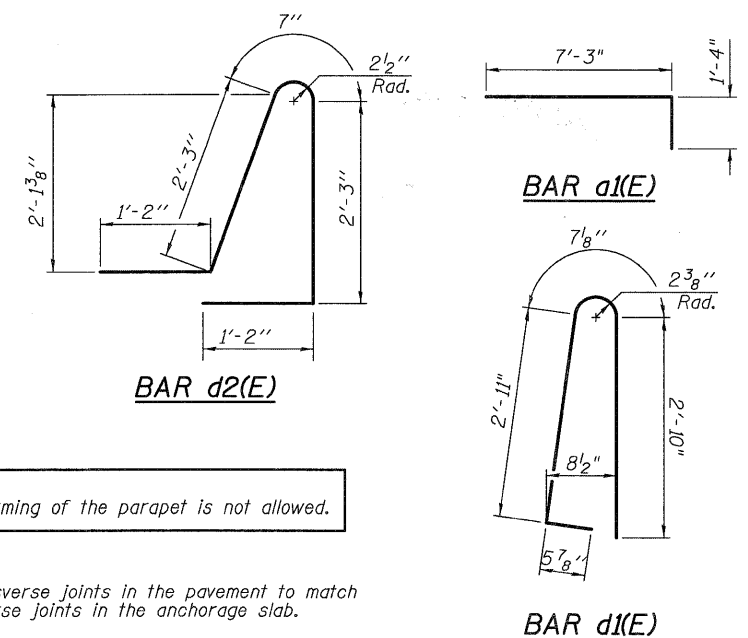
(PLAN AT DRAINAGE STRUCTURES)



EXPANSION JOINT DETAILS

For expansion joints in anchorage slab see Roadway Plans and Highway Standards. (STD 420001-07)

* Cost included with "Concrete Structures".



Note:
Slip forming of the parapet is not allowed.

Note:
1. Transverse joints in the pavement to match transverse joints in the anchorage slab.

SECTIONS AND DETAILS
STRUCTURE NO. 099-W026

DESIGNED	PMH
CHECKED	MJL
DRAWN	RJ
CHECKED	BKB



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SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RW1-5	55	(99-1&2) AC-3	WILL	524	306
SHEETS					
RW1-9					
CONTRACT NO. 60C31					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOG RWN-39 Page 1 of 1

Wang Engineering, Inc.
1145 Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

Client: **McDonough Associates, Inc.**
Project: **I-55 at Arsenal Road**
Location: **T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois**

Datum: NAVD
Elevation: 532.17 ft
North: 1725124.30 ft
East: 1022837.02 ft
Station: 911+05.59
Offset: 45.05 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
532.0	2-inch thick, black CLAY LOAM --TOPSOIL--	0											
	Very dense, brown SANDY LOAM, some rock fragments	9											
	--WEATHERED BEDROCK--	24			NP	57							
	--AUGER REFUSAL @ 2' 3"--	37											
		50/3'											
529.9	Boring terminated at 2.25 ft												

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	12-10-2008	Complete Drilling	12-10-2008
Drilling Contractor	Wang Testing Service	Drill Rig	Mobile B-57 TMR
Driller	K & J	Logger	F. Bozga
Checked by	S. Sugiarto	Time After Drilling	NA
Drilling Method	3.25" IDA HSA; Boring backfilled with bentonite	Depth to Water	NA
upon completion			

BORING LOG RWN-40 Page 1 of 1

Wang Engineering, Inc.
1145 Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

Client: **McDonough Associates, Inc.**
Project: **I-55 at Arsenal Road**
Location: **T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois**

Datum: NAVD
Elevation: 532.55 ft
North: 1725201.25 ft
East: 1022827.12 ft
Station: 911+82.93
Offset: 38.81 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
532.4	2-inch thick, black CLAY LOAM --TOPSOIL--	0											
	Very dense, brown SANDY LOAM, some rock fragments	1			NP	12							
	--WEATHERED BEDROCK--	50/4"											
	--AUGER REFUSAL @ 1' 1"--												
531.5	Poor, brown and gray, weathered DOLOSTONE												
	--BEDROCK--												
	--RUN #1 (1' 1" to 6' 1")--												
	--REC=96.7%--												
	--RQD=31%--												
528.5	Boring terminated at 6.08 ft												

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	12-10-2008	Complete Drilling	12-10-2008
Drilling Contractor	Wang Testing Service	Drill Rig	Mobile B-57 TMR
Driller	K & J	Logger	F. Bozga
Checked by	S. Sugiarto	Time After Drilling	NA
Drilling Method	3.25" IDA HSA; Boring backfilled with bentonite	Depth to Water	NA
upon completion			

BORING LOG RWN-41 Page 1 of 1

Wang Engineering, Inc.
1145 Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

Client: **McDonough Associates, Inc.**
Project: **I-55 at Arsenal Road**
Location: **T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois**

Datum: NAVD
Elevation: 532.30 ft
North: 1725279.59 ft
East: 1022828.64 ft
Station: 912+61.11
Offset: 44.05 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Qu (tsf)	Moisture Content (%)
532.1	2-inch thick, black CLAY LOAM --TOPSOIL--	0											
	Very dense, brown SANDY LOAM, some rock fragments	1											
	--WEATHERED BEDROCK--	6			NP	10							
	--AUGER REFUSAL @ 1' 2"--	50/2'											
531.1	Boring terminated at 1.17 ft												

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	12-10-2008	Complete Drilling	12-10-2008
Drilling Contractor	Wang Testing Service	Drill Rig	Mobile B-57 TMR
Driller	K & J	Logger	F. Bozga
Checked by	S. Sugiarto	Time After Drilling	NA
Drilling Method	3.25" IDA HSA; Boring backfilled with bentonite	Depth to Water	NA
upon completion			

DESIGNED	XXX
CHECKED	
DRAWN	AMV
CHECKED	

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SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RWI-7	55	(99-1&2) AC-3	WILL	524	308
CONTRACT NO. 60C31					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

**SOIL BORING LOGS
RETAINING WALL 1
STRUCTURE NO. 099-W026**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Wang Engineering, Inc.
Consulting Geotechnical and
Environmental Engineers
wangeng@wangeng.com
1145 Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG RWN-42

WEI Job No.: 201-34-01
Client: McDonough Associates, Inc.
Project: I-55 at Arsenal Road
Location: T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois

Datum: NAVD
Elevation: 533.04 ft
North: 1725361.81 ft
East: 1022830.90 ft
Station: 913+44.13
Offset: 50.13 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
532.8	2-inch thick, black CLAY LOAM --TOPSOIL--	0											
	Very loose, brown SANDY LOAM, trace rock fragments	1			NP	41							
	--WEATHERED BEDROCK-- --AUGER REFUSAL @1' 6"--	2											
531.5		50/0"											
	Boring terminated at 1.50 ft												

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-10-2008	Complete Drilling	12-10-2008	While Drilling	▽	0.00 ft	
Drilling Contractor	Wang Testing Service	Drill Rig	Mobile B-57 TMR	At Completion of Drilling	▽	0.00 ft	
Driller	K & J	Logger	F. Bozga	Time After Drilling	NA		
Checked by	S. Sugiarto	Depth to Water	▽	NA			
Drilling Method	3.25" IDA HSA; Boring backfilled with bentonite upon completion						

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Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG RWN-43

WEI Job No.: 201-34-01
Client: McDonough Associates, Inc.
Project: I-55 at Arsenal Road
Location: T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois

Datum: NAVD
Elevation: 532.47 ft
North: 1725444.08 ft
East: 1022832.90 ft
Station: 914+26.32
Offset: 54.38 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
532.3	2-inch thick, black CLAY LOAM --TOPSOIL--	0											
	Very dense, brown SANDY LOAM	1	2		NP	8							
	--WEATHERED BEDROCK-- --AUGER REFUSAL @1' 2"--	50/5"											
531.3													
	Boring terminated at 1.17 ft												

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-10-2008	Complete Drilling	12-10-2008	While Drilling	▽	0.00 ft	
Drilling Contractor	Wang Testing Service	Drill Rig	Mobile B-57 TMR	At Completion of Drilling	▽	0.00 ft	
Driller	K & J	Logger	F. Bozga	Time After Drilling	NA		
Checked by	S. Sugiarto	Depth to Water	▽	NA			
Drilling Method	3.25" IDA HSA; Boring backfilled with bentonite upon completion						

Wang Engineering, Inc.
Consulting Geotechnical and
Environmental Engineers
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1145 Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG RWN-44

WEI Job No.: 201-34-01
Client: McDonough Associates, Inc.
Project: I-55 at Arsenal Road
Location: T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois

Datum: NAVD
Elevation: 533.86 ft
North: 1725512.85 ft
East: 1022826.48 ft
Station: 914+95.24
Offset: 49.85 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
533.0	10-inch thick, black CLAY LOAM --TOPSOIL--	0											
	Medium dense to very dense, brown SANDY LOAM	1			NP	49							
	--WEATHERED BEDROCK-- --AUGER REFUSAL @2' 11"--	4											
		15											
		33											
530.9		50/5"	2		NP	15							
	Boring terminated at 2.92 ft												

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-10-2008	Complete Drilling	12-10-2008	While Drilling	▽	0.00 ft	
Drilling Contractor	Wang Testing Service	Drill Rig	Mobile B-57 TMR	At Completion of Drilling	▽	0.00 ft	
Driller	K & J	Logger	F. Bozga	Time After Drilling	NA		
Checked by	S. Sugiarto	Depth to Water	▽	NA			
Drilling Method	3.25" IDA HSA; Boring backfilled with bentonite upon completion						

DESIGNED	XXX
CHECKED	
DRAWN	AMV
CHECKED	




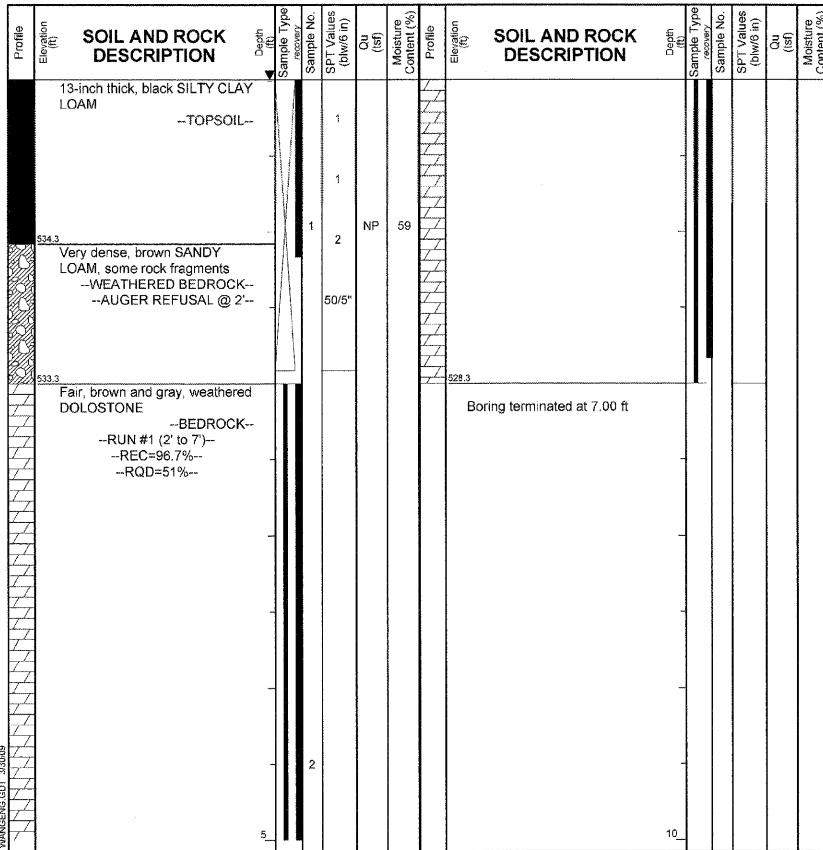
McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

**SOIL BORING LOGS
RETAINING WALL 1
STRUCTURE NO. 099-W026**

SHEET NO. RWI-8 SHEETS RWI-9	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2) AC-3	WILL	524	309
CONTRACT NO. 60C31					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

 Wang Engineering, Inc. Consulting Geotechnical and Environmental Engineers wangeng@wangeng.com 1145 Main Street Lombard, IL 60148 Telephone: 630 953-9928 Fax: 630 953-9938	BORING LOG RWN-45		Datum: NAVD Elevation: 635.33 ft North: 1725601.85 ft East: 1022814.58 ft Station: 915+84.53 Offset: 40.40 RT
	WEI Job No.: 201-34-01 Client: McDonough Associates, Inc. Project: I-55 at Arsenal Road Location: T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois		



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	12-10-2008	Complete Drilling	12-10-2008
Drilling Contractor	Wang Testing Service	Drill Rig	Mobile B-57 TMR
Driller	K & J	Logger	F. Bozga
Checked by	S. Sugiarto	Time After Drilling	NA
Drilling Method	3.25" IDA HSA; Boring backfilled with bentonite upon completion	Depth to Water	NA

SOIL BORING LOGS
RETAINING WALL 1
STRUCTURE NO. 099-W026

DESIGNED	XXX
CHECKED	
DRAWN	AMV
CHECKED	



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RWI-9	55	(99-1&2) AC-3	WILL	524	310
CONTRACT NO. 60C31					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DESIGN STRESSES
FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

PRECAST UNITS

$f'_c = 4,500$ psi (pre-cast units)

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications

CURVE DATA

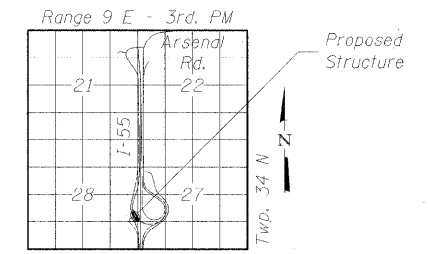
Ramp C
PI STA. = 2037+82.40
 $\Delta = 132^\circ 56' 23.34"$ (LT)
 $D = 6^\circ 51' 42"$
 $R = 835.00'$
 $T = 1917.61'$
 $L = 1937.40'$
 $E = 1256.52'$
S.E. RUN = 0.06 Ft./Ft.
P.C. STA. = 2018+64.79
P.T. STA. = 2038+02.19

Full SE from Sta. 2019+76.79 to end of wall.
For transition of SE from Sta. 2019+76.79 to beginning of wall see Sheet RW3-2.

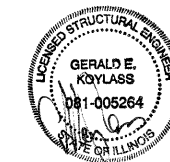
Parapet and Anchorage Slab are not part of this Contract

Note "A":
The top of levelling pad shall be established at minimum depth of 3.5 ft. below finished grade unless sound bed rock is encountered higher. When sound bed rock is encountered less than 1 foot below finished grade, the minimum embedment depth below the finished grade shall be 1 foot.

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



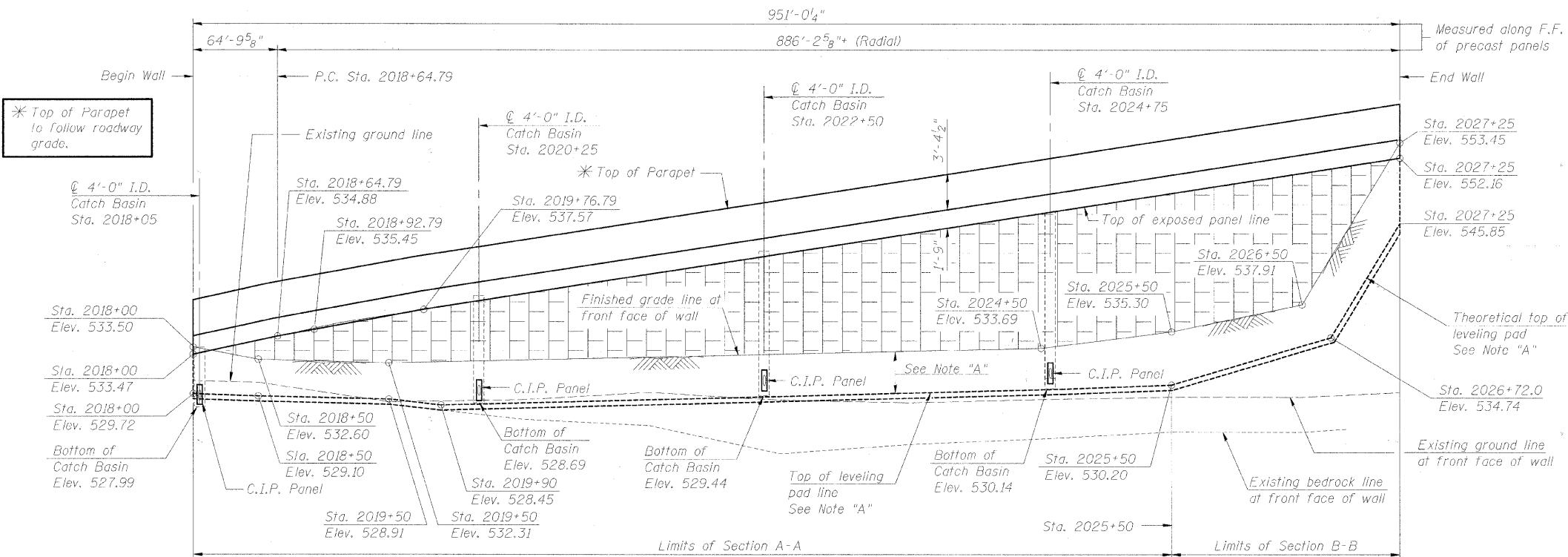
LOCATION SKETCH



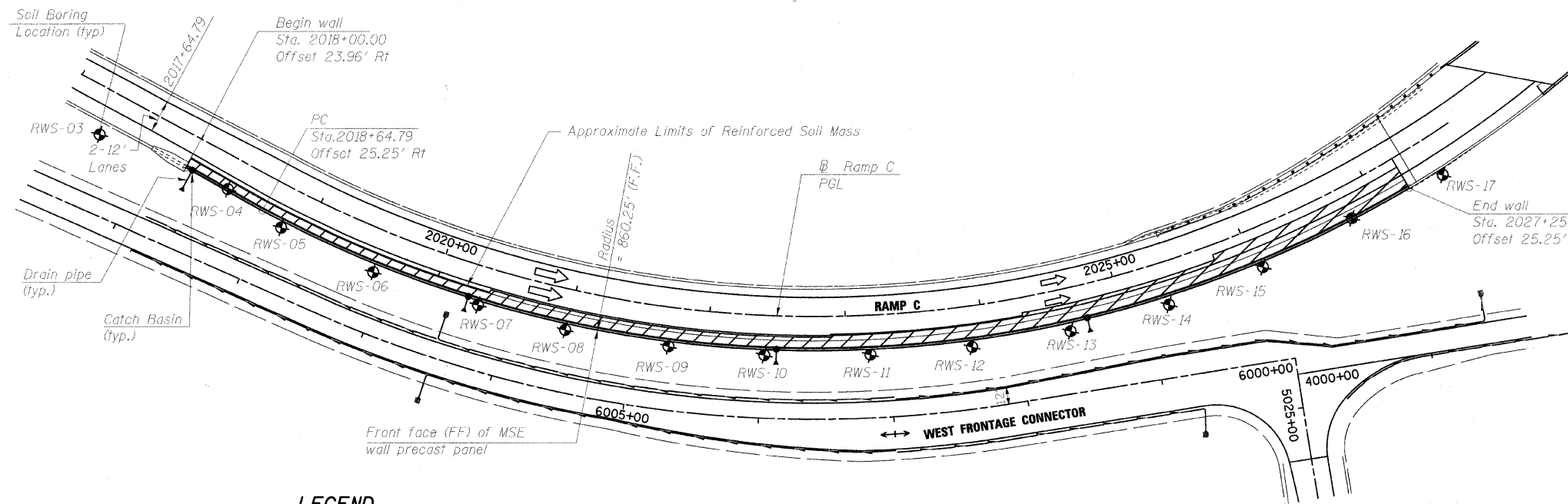
Exp: 11/30/2010

GENERAL PLAN & ELEVATION
MSE WALL-RAMP C
F.A.I. RTE. 55 - SEC. (99-1&2) R-6
WILL COUNTY
STATION 2018+00 TO 2027+25
STRUCTURE NO. 099-W028

Bench Mark:
(BMRR) Box cut at top of S.E. wingwall of Grant Creek Bridge on E. Frontage Rd. of I-55, Elev. 520.80
Existing Structure:
None.



ELEVATION
(Looking at F.F. of wall)



PLAN

Note:
Wall offsets are measured from the Ramp C PGL to the front face of precast panels.

LEGEND

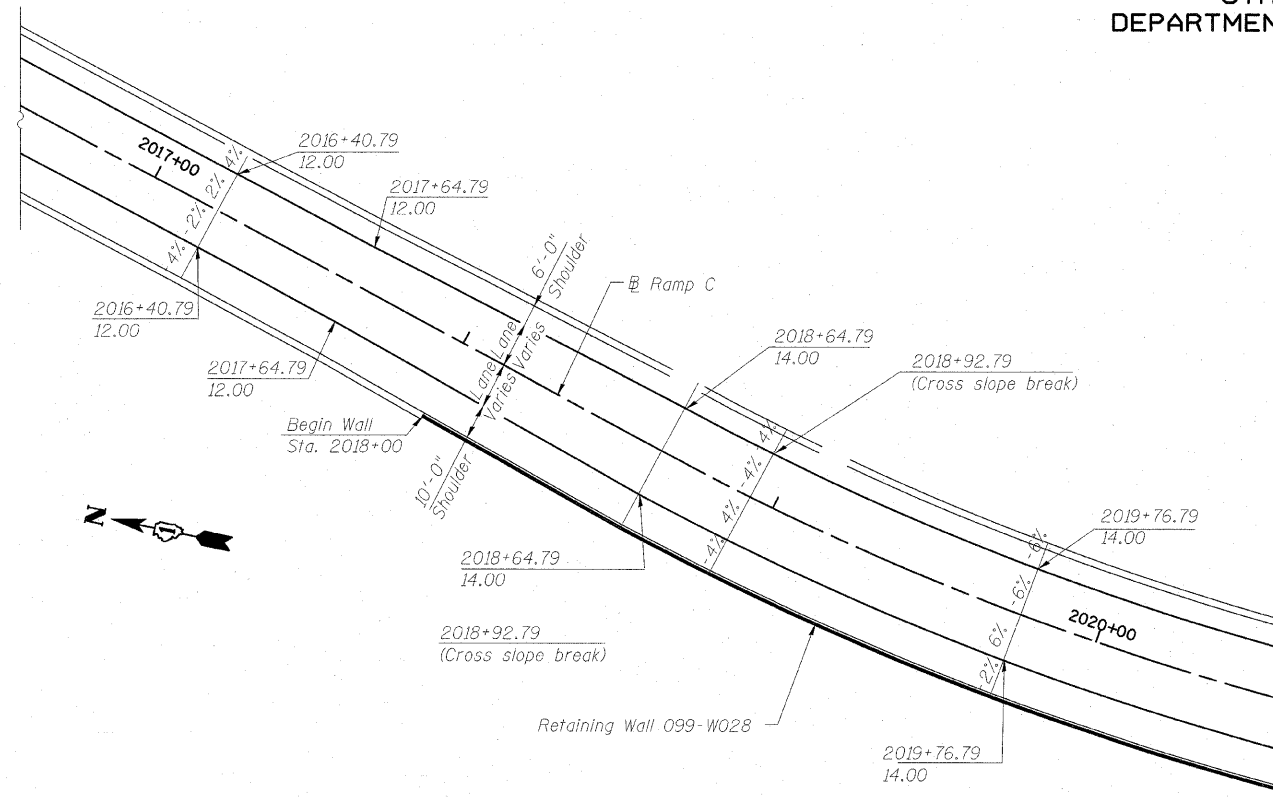
- Manhole
- Catch Basin
- ⊙ Soil Boring
- F.F. = Front Face
- B.F. = Back Face
- E.F. = Each Face
- I.I. = Inside Face
- O.F. = Outside Face

DESIGNED	PMH
CHECKED	MJI
DRAWN	RJ
CHECKED	BKB

McDonough Associates Inc.
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SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RW3-1	55	(99-1&2) AC-3	WILL	524	311
CONTRACT NO. 60C31					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



TRANSITION PLAN

INDEX OF SHEETS

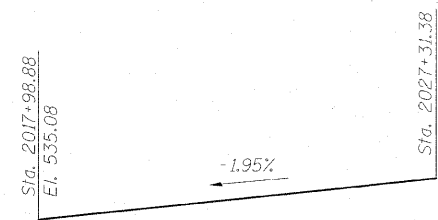
1. General Plan & Elevation
2. General Details & Bill of Material
3. MSE Wall- Plan & Elevation
4. MSE Wall- Plan & Elevation
5. MSE Wall- Plan & Elevation
6. Sections and Details
7. Sections and Details
8. Soil Boring Data
9. Soil Boring Data
10. Soil Boring Data
11. Soil Boring Data
12. Soil Boring Data

GENERAL NOTES

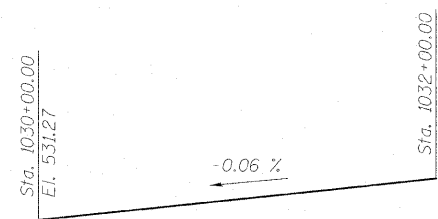
1. Place the top most layer of soil reinforcement 3 feet below the gutter line elevation.
2. Verify all drainage information shown on these plans regarding catch basins, manholes & pipes with drainage plans prior to fabrication or construction.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yds.	689
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	12,022
Rock Excavation for Structures	Cu. Yds.	114.1
Removal and Disposal of Unsuitable Material for Structures	Cu. Yds.	424



PROFILE GRADE - RAMP C



PROFILE GRADE - NB & SB I-55

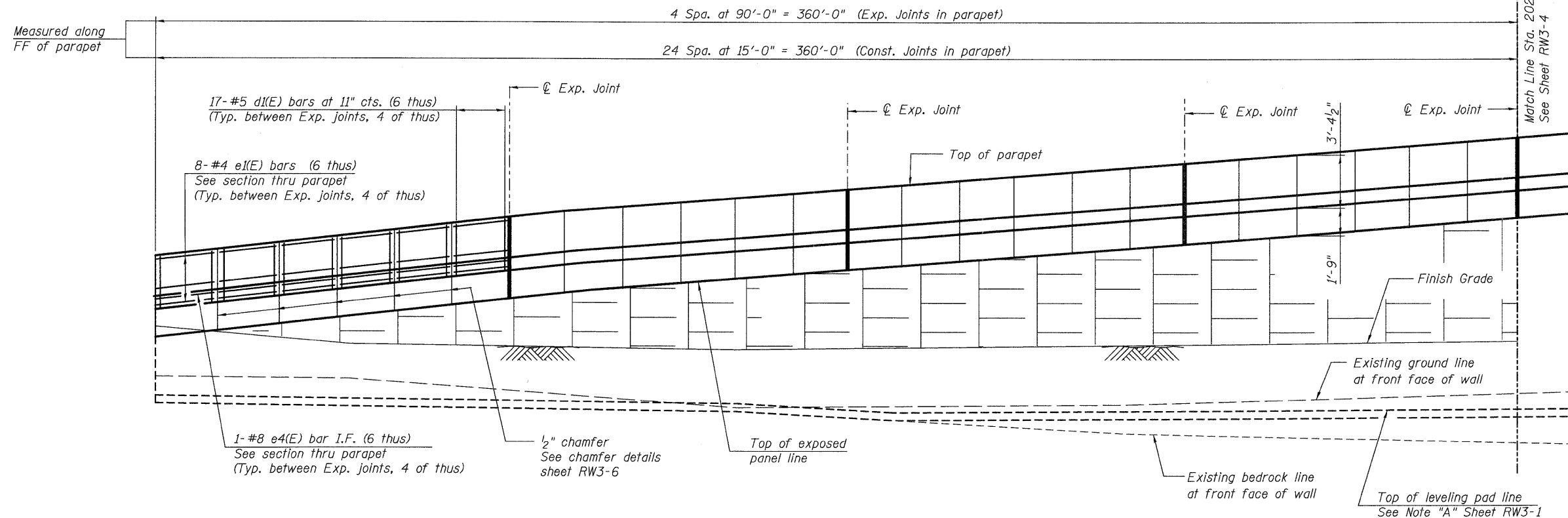
DESIGNED	-	PMH
CHECKED	-	MJL
DRAWN	-	RJ
CHECKED	-	BKB

**GENERAL DETAILS & BILL OF MATERIAL
STRUCTURE NO. 099-W028**

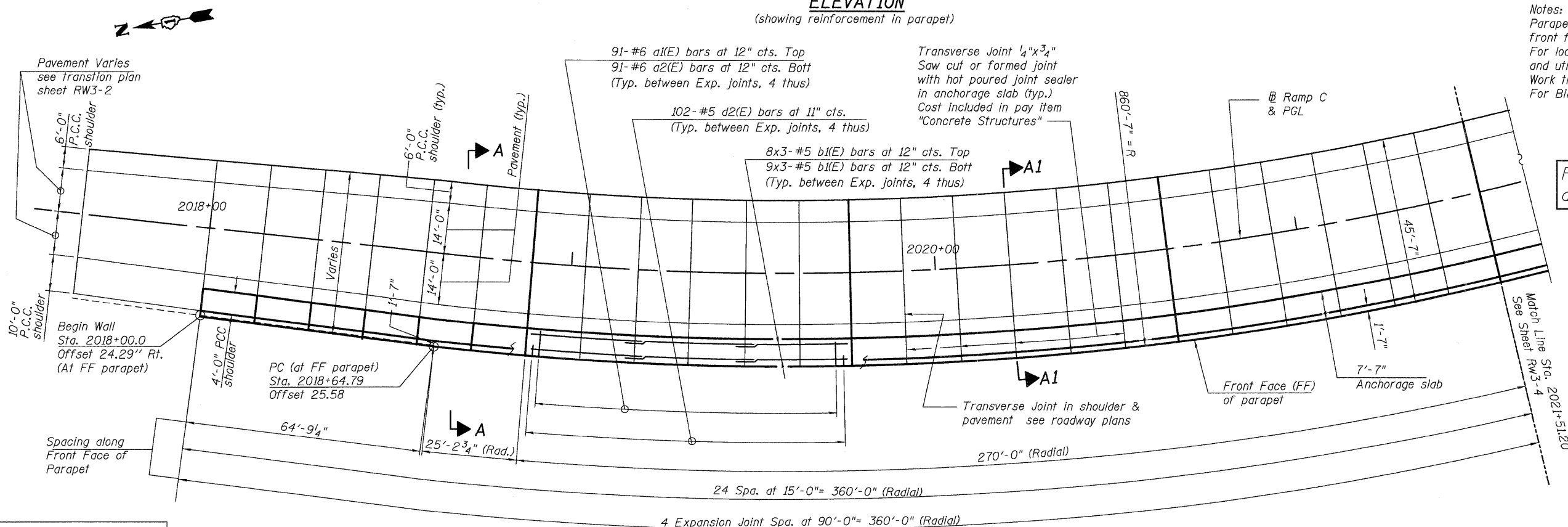
McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

SHEET NO. RW3-2 SHEETS RW3-12	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2) AC-3	WILL	524	312
CONTRACT NO. 60C31					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION
(showing reinforcement in parapet)



PLAN
(showing reinforcement in anchorage slab)

DESIGNED	PMH
CHECKED	MJL
DRAWN	RJ
CHECKED	BKB

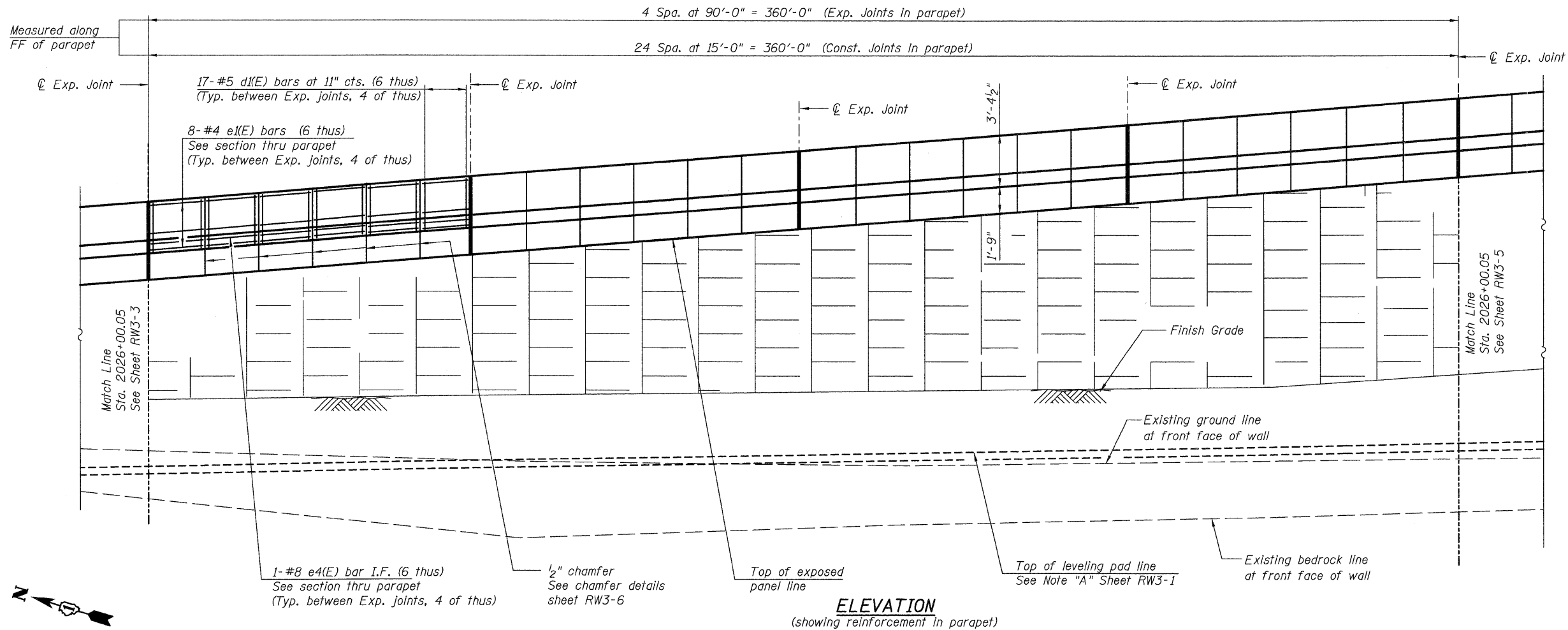
MIN. LAP
#4 bar = 1'-4"
#5 bar = 1'-8"
#8 bar = 3'-8"

McDonough Associates Inc.
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130 East Randolph Street
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SHEET NO. RW3-3 SHEETS RW3-12	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2) AC-3	WILL	524	313
CONTRACT NO. 60C31					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

MSE WALL - PLAN & ELEVATION
STRUCTURE NO. 099-W028

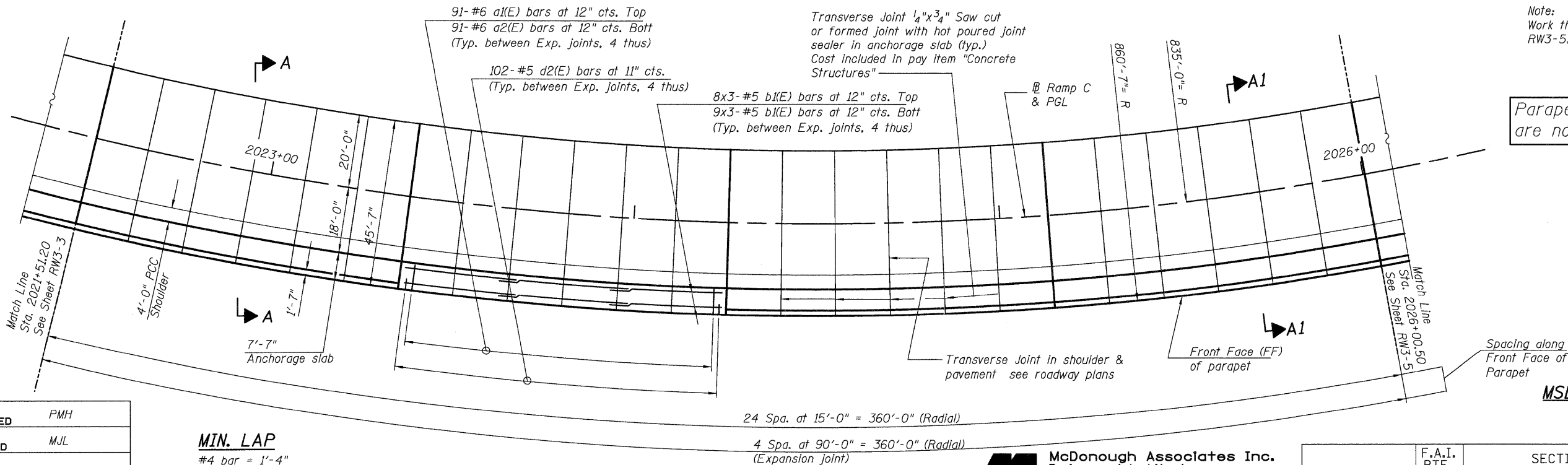
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Note:
Slip forming of the parapet is not allowed.

Note:
Work this sheet with sheets RW3-1, RW3-3 & RW3-5.

Parapet and Anchorage Slab are not part of this Contract



DESIGNED	PMH
CHECKED	MJL
DRAWN	RJ
CHECKED	BKB

MIN. LAP

#4 bar = 1'-4"
#5 bar = 1'-8"
#8 bar = 3'-8"

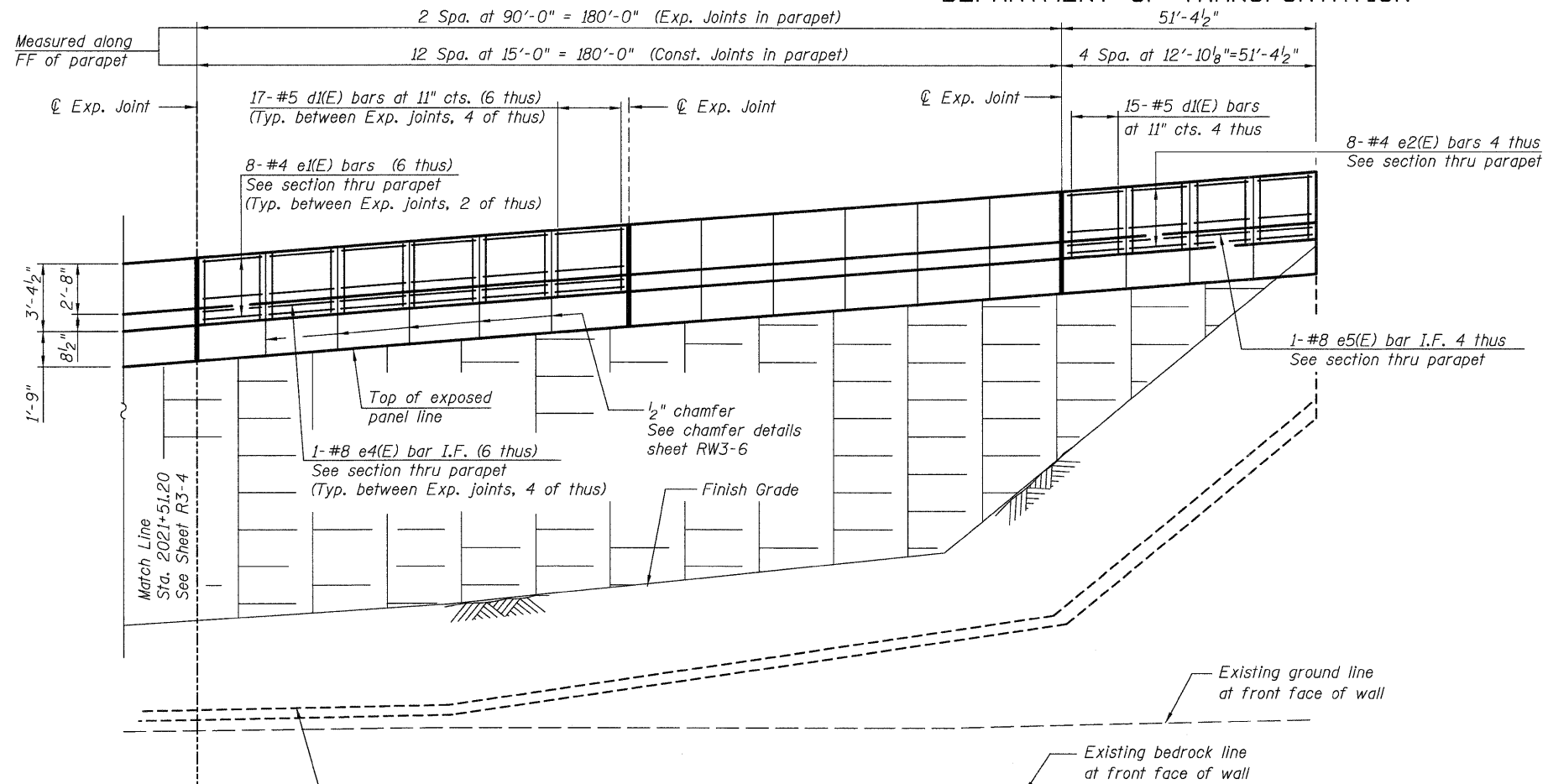


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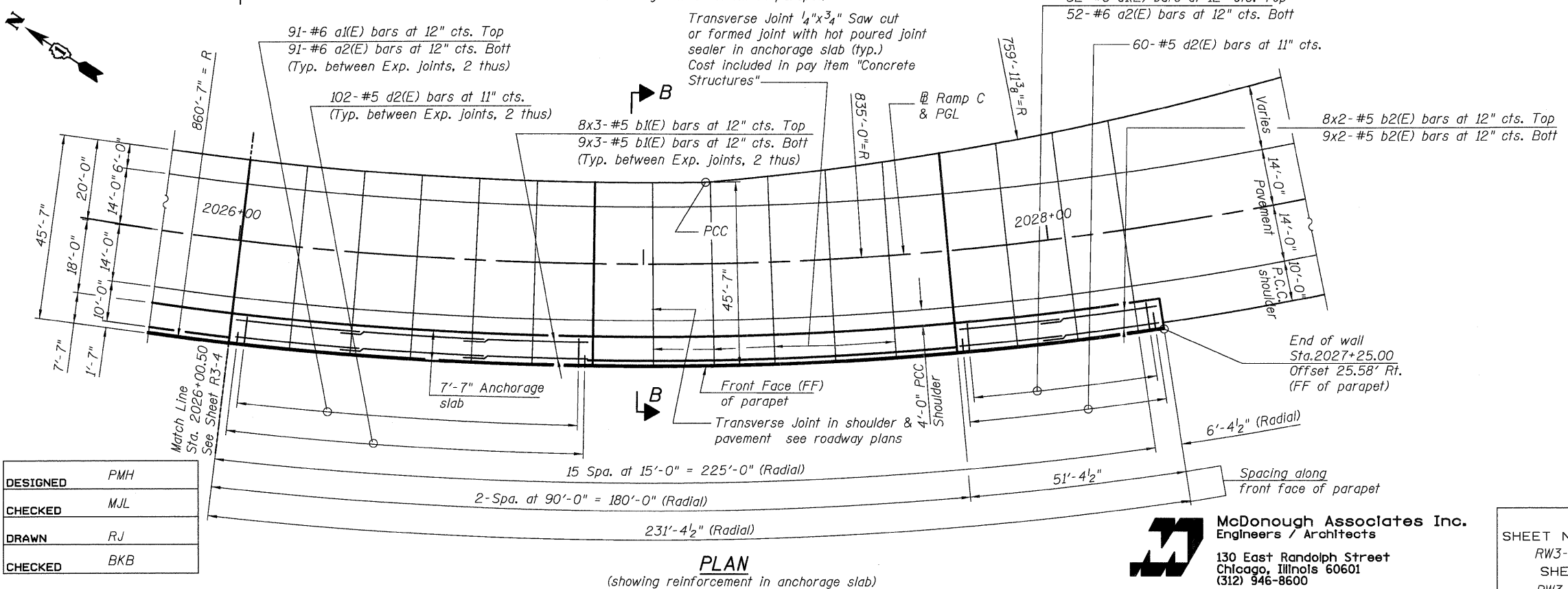
SHEET NO. RW3-4 SHEETS RW3-12	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2) AC-3	WILL	524	314
CONTRACT NO. 60C31					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

MSE WALL - PLAN & ELEVATION
STRUCTURE NO. 099-W028

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION
(showing reinforcement in parapet)



PLAN
(showing reinforcement in anchorage slab)

Note:
Slip forming of the parapet is not allowed.

Note:
Work this sheet with sheets RW3-1 thru RW3-4.

Parapet and Anchorage Slab
are not part of this Contract

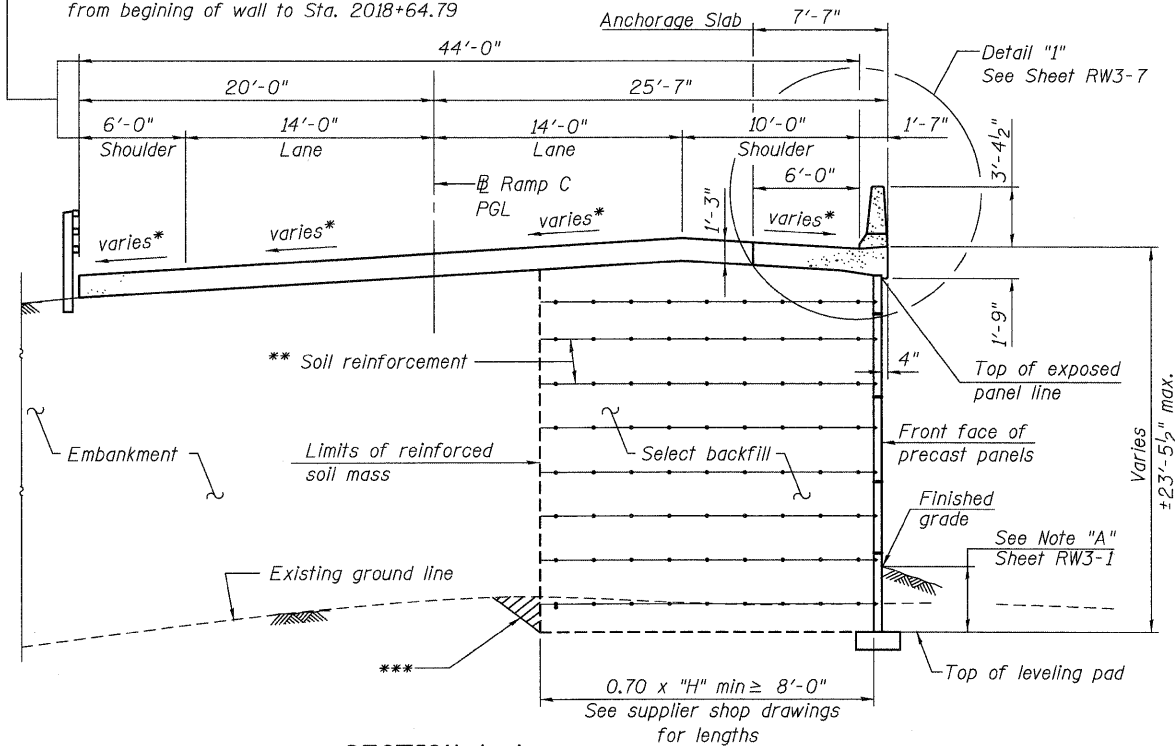
MSE WALL - PLAN & ELEVATION
STRUCTURE NO. 099-W028

DESIGNED	PMH
CHECKED	MJL
DRAWN	RJ
CHECKED	BKB

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

SHEET NO. RW3-5 SHEETS RW3-12	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2) AC-3	WILL	524	315
CONTRACT NO. 60C31					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

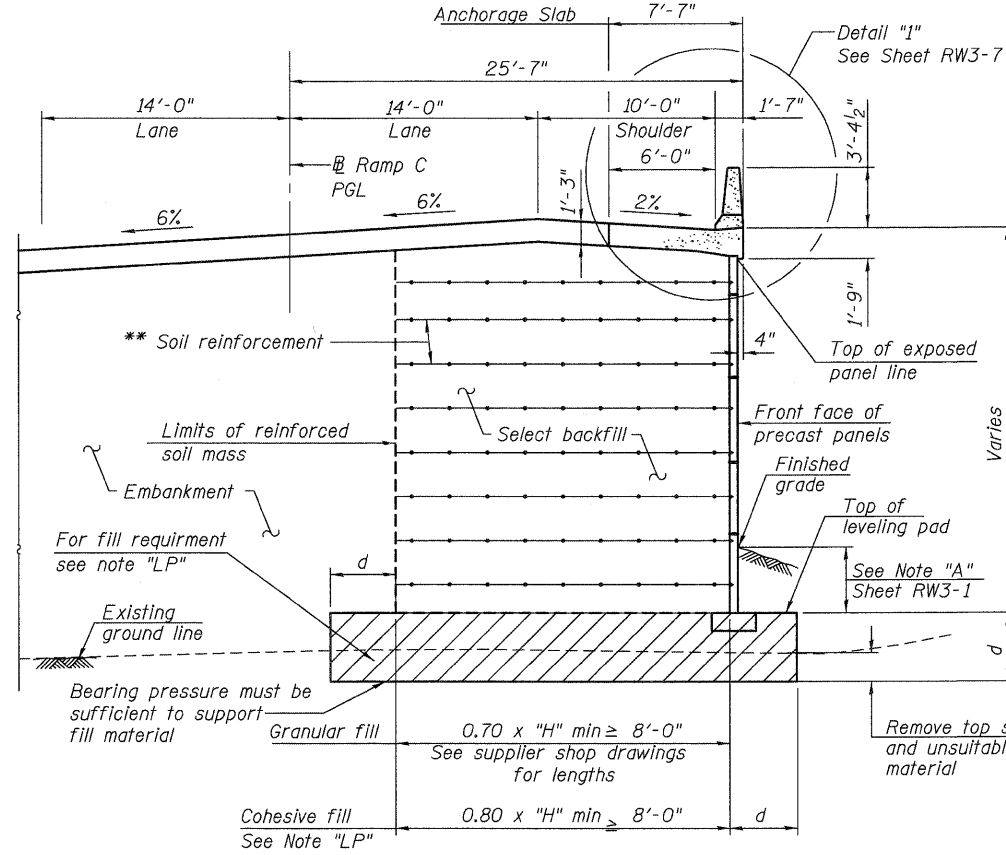
From Sta. 2018+64.79 to end of wall.
See transition plan for details
from beginning of wall to Sta. 2018+64.79



SECTION A-A
TYPICAL WALL SECTION

From Sta. 2018+00.00 to Sta. 2025+75.00
Looking (upstation) South

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SECTION B-B
TYPICAL WALL SECTION

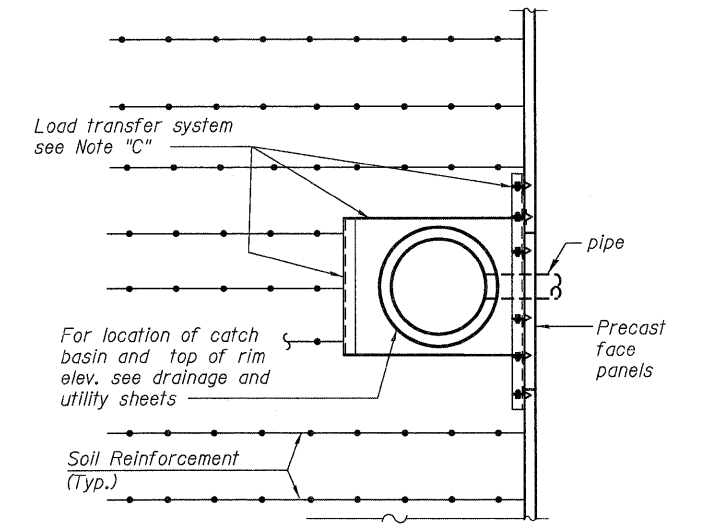
From Sta. 2025+75.00 to Sta. 2027+25.00
Looking (upstation) South

Notes:
Place the top most layer of soil reinforcement 3 feet below the gutter line elevation.

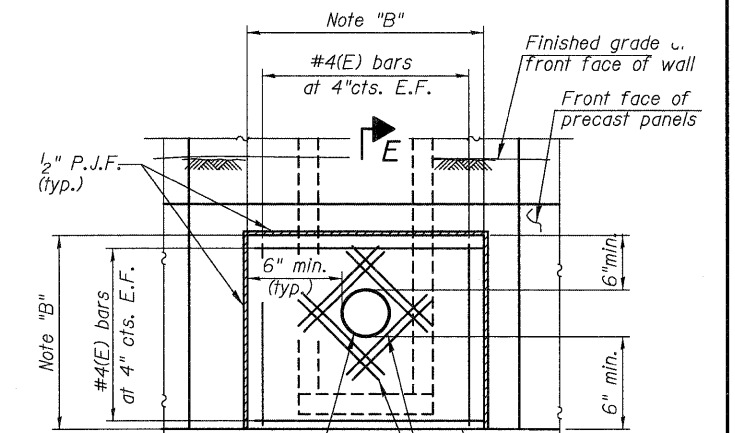
Quantity of the embankment fill is included with Roadway Quantities.

Removal of top soil & unsuitable material will be paid for under item "Removal and Disposal of unsuitable material for Structures".

Note "LP":
If the leveling pad is placed on top of cohesive fill material, the embankment fill below the leveling pad shall achieve an unconfined compressive strength of 1.5 tons per square foot, which may require that the degree of compaction is higher than 95% of the maximum dry density according to AASHTO T99. The embankment material should be placed in layers no more than 8 inches in loose thickness. The dynamic cone penetrometer reading must be equal to or less than 1.3 inches per blow, when testing the penetration rate in accordance with the IDOT Geotechnical Manual.



SECTION C-C

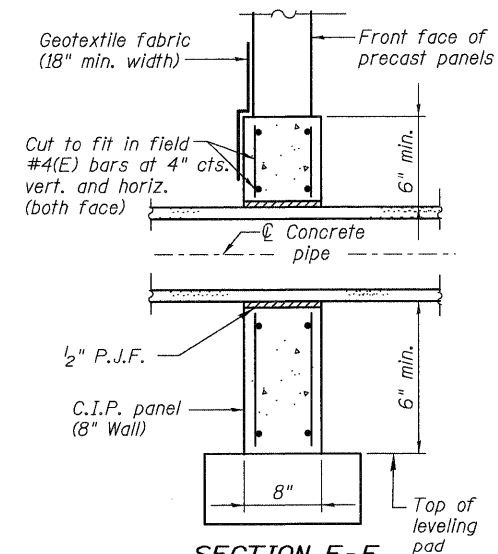


For size of opening in C.I.P. panel see drainage structure plans and pipe information tables

VIEW D-D
CAST IN PLACE (C.I.P.) PANEL ELEVATION

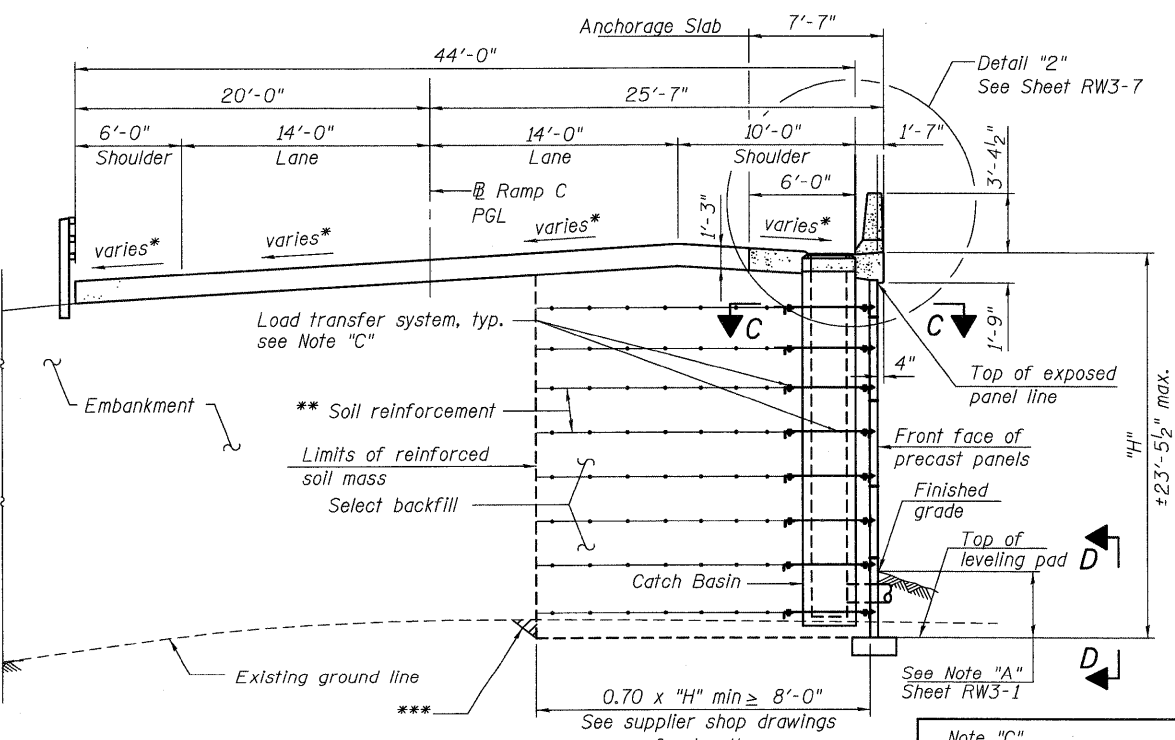
Note "B"
Cast-in-place panel (C.I.P.) Dimensions to be determined by Precast panel supplier.

Cost of C.I.P. panels including Reinforcement in the C.I.P. panel is included in the pay item "Mechanically Stabilized Earth Retaining Wall".



SECTION E-E
TYPICAL SECTION THROUGH C.I.P. PANEL

Parapet and Anchorage Slab are not part of this Contract



SECTION A1-A1

* See transition plan (Sheet RW3-2)

** The MSE wall suppliers internal stability design shall account for the anchorage slabs bearing pressure of 1.0KSF and horizontal sliding force of 0.5 Kips/ft. of wall.

*** Overexcavation beyond limits of structure excavation. This area not measured for payment. Backfill Overexcavation with same material as used for select fill.

DESIGNED	PMH
CHECKED	MJL
DRAWN	RJ
CHECKED	BKB

SECTIONS AND DETAILS
STRUCTURE NO. 099-W028



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

SHEET NO. RW3-6 SHEETS RW3-12	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2) AC-3	WILL	524	316
CONTRACT NO. 60C31					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOG RWS-03 Page 1 of 1

Wang Engineering, Inc.
1145 Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

Client: **McDonough Associates, Inc.**
Project: **I-55 at Arsenal Road**
Location: **T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois**

Datum: NGVD
Elevation: 529.80 ft
North: 1723201.03 ft
East: 1022370.72 ft
Station: 2017+30.78
Offset: 30.83 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
529.4	5-inch thick, stiff, black SILTY CLAY LOAM --TOPSOIL--	5	5										
529.4	Weathered bedrock fragments --WEATHERED BEDROCK-- --AUGER REFUSAL @ 1'-0"--	6	6		1.00 P	41							
528.8	Boring terminated at 1.00 ft	50/1"											

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	12-15-2008	Complete Drilling	12-15-2008
Drilling Contractor	Wang Testing Service	Drill Rig	Diedrich D-50
Driller	K & J	Logger	F. Bozga
Checked by	H. Suhail	Time After Drilling	NA
Drilling Method	3.25" IDA HSA; Boring backfilled with bentonite upon completion	Depth to Water	NA

BORING LOG RWS-04 Page 1 of 1

Wang Engineering, Inc.
1145 Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

Client: **McDonough Associates, Inc.**
Project: **I-55 at Arsenal Road**
Location: **T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois**

Datum: NGVD
Elevation: 530.91 ft
North: 1723099.98 ft
East: 1022351.55 ft
Station: 2018+33.19
Offset: 21.31 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
530.2	8-inch thick, soft, black SILTY CLAY LOAM --TOPSOIL--	9	9										
530.2	Very dense, brown, medium SANDY LOAM and weathered dolostone rock fragments --WEATHERED BEDROCK-- --AUGER REFUSAL @ 2'-0"--	1	1	50/5"	0.25 P	35							
528.9	Boring terminated at 2.00 ft	50/0"	2										

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	12-15-2008	Complete Drilling	12-15-2008
Drilling Contractor	Wang Testing Service	Drill Rig	Diedrich D-50
Driller	K & J	Logger	F. Bozga
Checked by	H. Suhail	Time After Drilling	NA
Drilling Method	3.25" IDA HSA; Boring backfilled with bentonite upon completion	Depth to Water	NA

BORING LOG RWS-05 Page 1 of 1

Wang Engineering, Inc.
1145 Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

Client: **McDonough Associates, Inc.**
Project: **I-55 at Arsenal Road**
Location: **T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois**

Datum: NGVD
Elevation: 530.13 ft
North: 1723055.39 ft
East: 1022331.85 ft
Station: 2018+80.95
Offset: 28.07 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
529.6	6-inch thick, stiff, black SILTY CLAY LOAM --TOPSOIL--	6	6										
529.6	Loose to very dense, brown SANDY LOAM and weathered dolostone rock fragments --WEATHERED BEDROCK-- --AUGER REFUSAL @ 2'-0"--	3	3		1.00 P	53							
528.1	Boring terminated at 2.00 ft	50/2"											

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	12-15-2008	Complete Drilling	12-15-2008
Drilling Contractor	Wang Testing Service	Drill Rig	Diedrich D-50
Driller	K & J	Logger	F. Bozga
Checked by	H. Suhail	Time After Drilling	NA
Drilling Method	3.25" IDA HSA; Boring backfilled with bentonite upon completion	Depth to Water	NA

DESIGNED	XXX
CHECKED	
DRAWN	AV/RJ
CHECKED	

SOIL BORING LOGS
STRUCTURE NO. 099-W028



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

SHEET NO. RW3-8 SHEETS RW3-12	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2) AC-3	WILL	524	318
CONTRACT NO. 60C31					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOG RWS-06 Page 1 of 1

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WEI Job No.: 201-34-01
Client: McDonough Associates, Inc.
Project: I-55 at Arsenal Road
Location: T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois

Datum: NGVD
Elevation: 528.87 ft
North: 1722981.54 ft
East: 1022314.16 ft
Station: 2019+53.99
Offset: 29.53 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
528.5	4-inch thick, black SILTY CLAY LOAM --TOPSOIL--	1	4	1.00	37								
528.4	Very dense, weathered bedrock fragments --WEATHERED BEDROCK-- --AUGER REFUSAL @ 5"-- Boring terminated at 0.50 ft	50/0"											

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	12-12-2008	Complete Drilling	12-12-2008
Drilling Contractor	Wang Testing Service	Drill Rig	Diedrich D-50
Driller	K & J	Logger	F. Bozga
Checked by	H. Suhail	Time After Drilling	NA
Drilling Method	3.25" IDA HSA; Boring backfilled with bentonite upon completion	Depth to Water	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

BORING LOG RWS-07 Page 1 of 1

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WEI Job No.: 201-34-01
Client: McDonough Associates, Inc.
Project: I-55 at Arsenal Road
Location: T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois

Datum: NGVD
Elevation: 528.61 ft
North: 1722908.43 ft
East: 1022306.56 ft
Station: 2020+25.44
Offset: 27.49 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
527.8	9-inch thick, stiff, black SILTY CLAY LOAM --TOPSOIL--	2											
527.6	Very dense, brown, medium SANDY LOAM and weathered dolostone rock fragments --WEATHERED BEDROCK-- --AUGER REFUSAL @ 1' 6"--	50/4"											
527.1	Fair, brown and gray, weathered DOLOSTONE --BEDROCK-- --RUN #1 (1.5' to 6.0')-- --REC=100%-- --RQD=75%--												

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	12-12-2008	Complete Drilling	12-12-2008
Drilling Contractor	Wang Testing Service	Drill Rig	Diedrich D-50
Driller	K & J	Logger	F. Bozga
Checked by	H. Suhail	Time After Drilling	NA
Drilling Method	3.25" IDA HSA; Boring backfilled with bentonite upon completion	Depth to Water	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

BORING LOG RWS-08 Page 1 of 1

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WEI Job No.: 201-34-01
Client: McDonough Associates, Inc.
Project: I-55 at Arsenal Road
Location: T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois

Datum: NGVD
Elevation: 529.59 ft
North: 1722834.35 ft
East: 1022302.99 ft
Station: 2020+97.26
Offset: 27.74 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
529.3	7-inch thick, stiff, black SILTY CLAY LOAM --TOPSOIL--	4											
529.2	Medium dense to very dense, brown SANDY LOAM and weathered dolostone rock fragments --WEATHERED BEDROCK-- --AUGER REFUSAL @ 3"--	1											
528.6	Boring terminated at 3.00 ft												

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	12-12-2008	Complete Drilling	12-12-2008
Drilling Contractor	Wang Testing Service	Drill Rig	Diedrich D-50
Driller	K & J	Logger	F. Bozga
Checked by	H. Suhail	Time After Drilling	NA
Drilling Method	3.25" IDA HSA; Boring backfilled with bentonite upon completion	Depth to Water	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

DESIGNED	XXX
CHECKED	
DRAWN	AV/RJ
CHECKED	

SOIL BORING LOGS
STRUCTURE NO. 099-W028

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
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SHEET NO. RW3-9 SHEETS RW3-12	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2) AC-3	WILL	524	319
CONTRACT NO. 60C31					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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BORING LOG RWS-09
WEI Job No.: 201-34-01
Client: McDonough Associates, Inc.
Project: I-55 at Arsenal Road
Location: T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois

Datum: NGVD
Elevation: 529.70 ft
North: 1722757.10 ft
East: 1022307.45 ft
Station: 2021+72.20
Offset: 26.61 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
529.70	9-inch thick, stiff, black SILTY CLAY LOAM --TOPSOIL--	4	4										
528.0	Medium dense to very dense, brown, medium SANDY LOAM and weathered dolostone rock fragments --WEATHERED BEDROCK-- --AUGER REFUSAL @ 3' 6" --	6	1	6	1.25	27							
		5											
		28	2		NP	12							
		50/3"											
526.2	Boring terminated at 3.50 ft												

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-12-2008	Complete Drilling	12-12-2008	While Drilling	▽	2.00 ft	
Drilling Contractor	Wang Testing Service	Drill Rig	Diedrich D-50	At Completion of Drilling	▽	2.00 ft	
Driller	K & J	Logger	F. Bozga	Time After Drilling	NA		
Checked by	H. Suhail			Depth to Water	▽	NA	
Drilling Method	3.25" IDA HSA; Boring backfilled with bentonite upon completion			The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

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BORING LOG RWS-10
WEI Job No.: 201-34-01
Client: McDonough Associates, Inc.
Project: I-55 at Arsenal Road
Location: T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois

Datum: NGVD
Elevation: 529.05 ft
North: 1722662.65 ft
East: 1022316.54 ft
Station: 2022+44.88
Offset: 27.36 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
529.05	7-inch thick, stiff, black SILTY CLAY LOAM --TOPSOIL--	2	2										
528.5	Medium dense to very dense, brown, medium SANDY LOAM and weathered dolostone rock fragments --WEATHERED BEDROCK-- --AUGER REFUSAL @ 5' 6" --	4	1	4	1.00	47							
		10											
		11											
		12											
		19	2		NP	10							
		26											
		44											
		38	3		NP	12							
		50/3"											
523.5	Boring terminated at 5.50 ft												

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-12-2008	Complete Drilling	12-12-2008	While Drilling	▽	2.00 ft	
Drilling Contractor	Wang Testing Service	Drill Rig	Diedrich D-50	At Completion of Drilling	▽	2.00 ft	
Driller	K & J	Logger	F. Bozga	Time After Drilling	NA		
Checked by	H. Suhail			Depth to Water	▽	NA	
Drilling Method	3.25" IDA HSA; Boring backfilled with bentonite upon completion			The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

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BORING LOG RWS-11
WEI Job No.: 201-34-01
Client: McDonough Associates, Inc.
Project: I-55 at Arsenal Road
Location: T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois

Datum: NGVD
Elevation: 528.64 ft
North: 1722610.05 ft
East: 1022333.12 ft
Station: 2023+17.04
Offset: 26.89 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
528.64	12-inch thick, stiff, black SILTY CLAY LOAM --TOPSOIL--	2	2										
		3											
527.6	Very dense, brown SANDY LOAM and weathered dolostone rock fragments --WEATHERED BEDROCK-- --AUGER REFUSAL @ 4' --	3	1	3	1.00	53							
		9											
		43											
		15	2		NP	21							
		50/3"											
524.6	Fair, brown and gray, weathered DOLOSTONE --BEDROCK-- --RUN #1 (4.0' to 9.0')-- --REC=93%-- --RQD=52%--												
519.6	Boring terminated at 9.00 ft												

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-12-2008	Complete Drilling	12-12-2008	While Drilling	▽	2.00 ft	
Drilling Contractor	Wang Testing Service	Drill Rig	Diedrich D-50	At Completion of Drilling	▽	2.00 ft	
Driller	K & J	Logger	F. Bozga	Time After Drilling	NA		
Checked by	H. Suhail			Depth to Water	▽	NA	
Drilling Method	3.25" IDA HSA; Boring backfilled with bentonite upon completion			The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

DESIGNED	XXX
CHECKED	
DRAWN	AV/RJ
CHECKED	

SOIL BORING LOGS
STRUCTURE NO. 099-W028

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RW3-10	55	(99-1&2) AC-3	WILL	524	320
RW3-12					
CONTRACT NO. 60C31					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOG RWS-12 Page 1 of 1

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WEI Job No.: 201-34-01
Client: McDonough Associates, Inc.
Project: I-55 at Arsenal Road
Location: T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois

Datum: NGVD
Elevation: 528.93 ft
North: 1722537.80 ft
East: 1022354.78 ft
Station: 2023+90.07
Offset: 27.94 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
527.7	15-inch thick, stiff, black SILTY CLAY LOAM --TOPSOIL--	5											
		6											
		7	1	1.75	34								
		7											
	Very dense, brown, medium SANDY LOAM and weathered dolostone rock fragments --WEATHERED BEDROCK-- --AUGER REFUSAL @ 4' 6"--	7											
		4											
		2	2	NP	33								
		50/4"											
		3	3	NP	18								
		50/1"											
524.4	Boring terminated at 4.50 ft	5											

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-12-2008	Complete Drilling	12-12-2008	While Drilling	2.50 ft		
Drilling Contractor	Wang Testing Service	Drill Rig	Diedrich D-50	At Completion of Drilling	2.50 ft		
Driller	K & J	Logger	F. Bozga	Time After Drilling	NA		
Checked by	H. Suhail	Depth to Water	NA				
Drilling Method	3.25" IDA HSA; Boring backfilled with bentonite upon completion						

BORING LOG RWS-13 Page 1 of 1

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WEI Job No.: 201-34-01
Client: McDonough Associates, Inc.
Project: I-55 at Arsenal Road
Location: T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois

Datum: NGVD
Elevation: 529.16 ft
North: 1722469.19 ft
East: 1022381.77 ft
Station: 2024+61.39
Offset: 29.18 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
526.3	10-inch thick, black SILTY LOAM --TOPSOIL--	4											
		5											
	Medium dense to very dense, brown, medium SANDY LOAM and weathered dolostone rock fragments --WEATHERED BEDROCK-- --AUGER REFUSAL @ 4'--	1	1	NP	41								
		6											
		12											
		6											
		2	2	NP	16								
		30											
		50/2"											
525.2	Boring terminated at 4.00 ft	5											

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-12-2008	Complete Drilling	12-12-2008	While Drilling	Dry		
Drilling Contractor	Wang Testing Service	Drill Rig	Diedrich D-50	At Completion of Drilling	Dry		
Driller	K & J	Logger	F. Bozga	Time After Drilling	NA		
Checked by	H. Suhail	Depth to Water	NA				
Drilling Method	3.25" IDA HSA; Boring backfilled with bentonite upon completion						

BORING LOG RWS-14 Page 1 of 1

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WEI Job No.: 201-34-01
Client: McDonough Associates, Inc.
Project: I-55 at Arsenal Road
Location: T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois

Datum: NGVD
Elevation: 529.28 ft
North: 1722402.34 ft
East: 1022416.38 ft
Station: 2025+34.14
Offset: 29.19 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
528.7	7-inch thick, stiff, black SILTY CLAY LOAM --TOPSOIL--	2											
		3											
	Medium dense to very dense, brown, medium SANDY LOAM and weathered dolostone rock fragments --WEATHERED BEDROCK-- --AUGER REFUSAL @ 3' 6"--	1	1	1.00	31								
		4											
		11											
		7	2	NP	28								
		50/2"											
525.8	Boring terminated at 3.50 ft	5											

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-12-2008	Complete Drilling	12-12-2008	While Drilling	2.00 ft		
Drilling Contractor	Wang Testing Service	Drill Rig	Diedrich D-50	At Completion of Drilling	2.00 ft		
Driller	K & J	Logger	F. Bozga	Time After Drilling	NA		
Checked by	H. Suhail	Depth to Water	NA				
Drilling Method	3.25" IDA HSA; Boring backfilled with bentonite upon completion						

DESIGNED	XXX
CHECKED	
DRAWN	AV/RJ
CHECKED	



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SOIL BORING LOGS
STRUCTURE NO. 099-W028

SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RW3-11	55	(99-1&2) AC-3	WILL	524	321
SHEETS			CONTRACT NO. 60C31		
RW3-12			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOG RWS-15 Page 1 of 1
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 WEI Job No.: 201-34-01
 Client: McDonough Associates, Inc.
 Project: I-55 at Arsenal Road
 Location: T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois
 Datum: NGVD
 Elevation: 529.44 ft
 North: 1722340.36 ft
 East: 1022458.25 ft
 Station: 2026+06.49
 Offset: 26.99 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)
528.3	14-inch thick, stiff, black SILTY CLAY LOAM --TOPSOIL--	4											
528.3	Very dense, brown, medium SANDY LOAM and weathered dolostone rock fragments --WEATHERED BEDROCK-- --AUGER REFUSAL @ 4'--	12	1	1.25	26								
528.4	Boring terminated at 4.00 ft	5											

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-12-2008	Complete Drilling	12-12-2008	While Drilling	2.00 ft		
Drilling Contractor	Wang Testing Service	Drill Rig	Diedrich D-50	At Completion of Drilling	2.00 ft		
Driller	K & J	Logger	F. Bozga	Time After Drilling	NA		
Checked by	H. Suhail			Depth to Water	NA		
Drilling Method	3.25" IDA HSA; Boring backfilled with bentonite upon completion						

BORING LOG RWS-16 Page 1 of 1
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 WEI Job No.: 201-34-01
 Client: McDonough Associates, Inc.
 Project: I-55 at Arsenal Road
 Location: T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois
 Datum: NGVD
 Elevation: 529.28 ft
 North: 1722283.89 ft
 East: 1022507.56 ft
 Station: 2026+79.19
 Offset: 22.03 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)
528.7	7-inch thick, stiff, black SILTY CLAY LOAM --TOPSOIL--	6											
528.7	Medium dense to very dense, brown, medium SANDY LOAM and weathered dolostone rock fragments --WEATHERED BEDROCK-- --AUGER REFUSAL @ 3' 6"--	1	1	NP	36								
528.8	Good, brown and gray, weathered DOLOSTONE --BEDROCK-- --RUN #1 (3.5" to 8.5)-- --REC=85%-- --RQD=88%--	50/5"											
528.8	Boring terminated at 8.50 ft	10											

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-12-2008	Complete Drilling	12-12-2008	While Drilling	Dry		
Drilling Contractor	Wang Testing Service	Drill Rig	Diedrich D-50	At Completion of Drilling	Dry		
Driller	K & J	Logger	F. Bozga	Time After Drilling	NA		
Checked by	H. Suhail			Depth to Water	NA		
Drilling Method	3.25" IDA HSA; Boring backfilled with bentonite upon completion						

BORING LOG RWS-17 Page 1 of 1
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 WEI Job No.: 201-34-01
 Client: McDonough Associates, Inc.
 Project: I-55 at Arsenal Road
 Location: T34, R9E, Sec. 21, 22, 28, 27, Will Co., Illinois
 Datum: NGVD
 Elevation: 529.88 ft
 North: 1722225.03 ft
 East: 1022553.38 ft
 Station: 2027+51.42
 Offset: 27.77 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)
528.9	12-inch thick, black SILTY CLAY LOAM --TOPSOIL--	22											
528.9	Very dense, brown, medium SANDY LOAM and weathered dolostone rock fragments --WEATHERED BEDROCK-- --AUGER REFUSAL @ 3'--	1	1	1.75	29								
528.9	Boring terminated at 3.00 ft	5											

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-17-2008	Complete Drilling	12-17-2008	While Drilling	2.00 ft		
Drilling Contractor	Wang Testing Service	Drill Rig	Diedrich D-50	At Completion of Drilling	2.00 ft		
Driller	K & J	Logger	F. Bozga	Time After Drilling	NA		
Checked by	E. Datz			Depth to Water	NA		
Drilling Method	3.25" IDA HSA; Boring backfilled with bentonite upon completion						

DESIGNED	XXX
CHECKED	
DRAWN	AV/RJ
CHECKED	

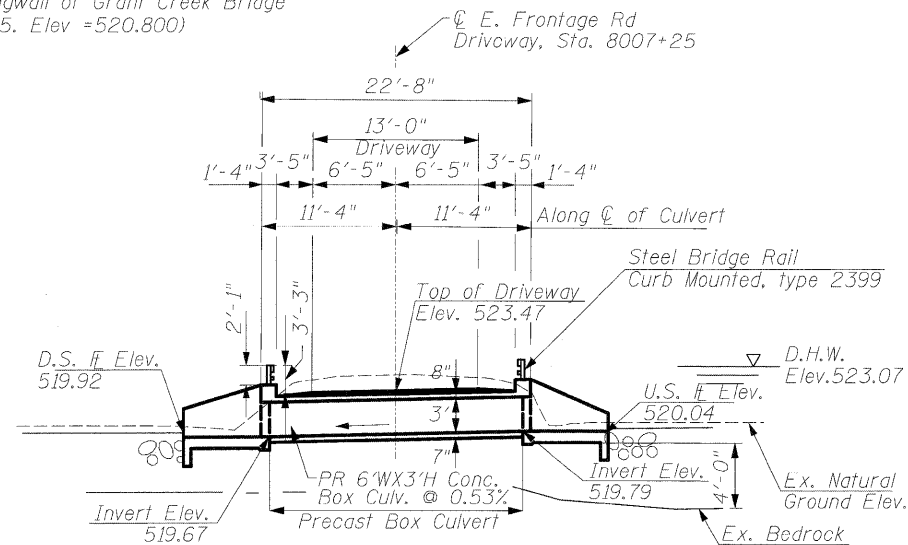
SOIL BORING LOGS
STRUCTURE NO. 099-W028

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

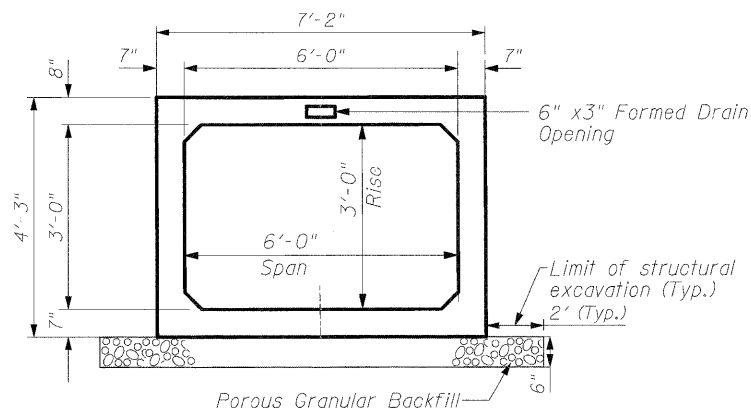
SHEET NO. RW3-12 SHEETS RW3-12	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2) AC-3	WILL	524	322
CONTRACT NO. 60C31					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

Bench Mark: BM 1
 (Box Cut at top of SE Wingwall of Grant Creek Bridge
 on E. Frontage Rd of I-55. Elev =520.800)
 Existing Structures: None

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION



LONGITUDINAL SECTION
 N.T.S.



SECTION THRU BARREL
 N.T.S.

DESIGN SPECIFICATIONS
 AASHTO 2002

LOADING HS-20-44

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

DESIGN STRESSES

FIELD UNITS

Cast-In-Place Units

$f'_c = 3,500$ psi (Concrete)

$f_y = 60,000$ psi (Reinforcement)

Precast Units

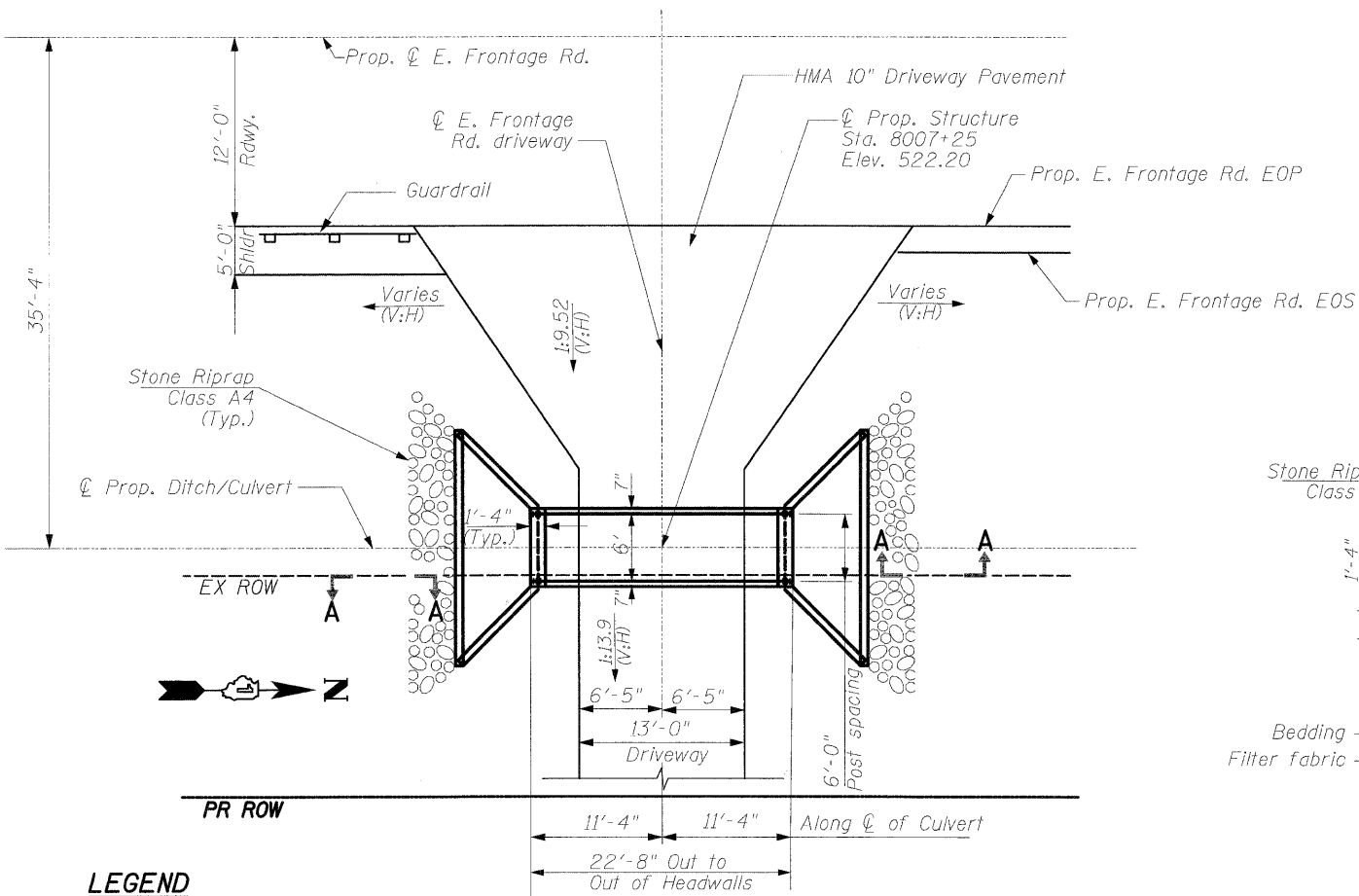
$f'_c = 5,000$ psi (Concrete)

$f_y = 65,000$ psi (Welded Wire Fabric)

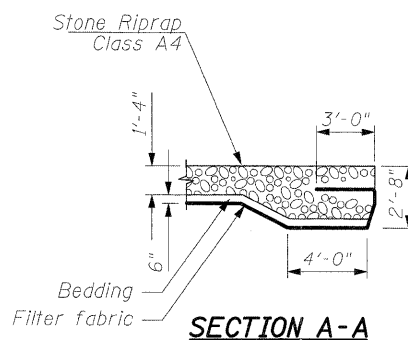
SEISMIC DATA

Seismic Performance Zone (SPC) = A
 Bedrock Acceleration Coeff.(A) = 0.04g
 Site Coefficient (S) = 1.0

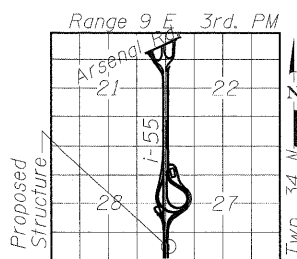
RBN-02



PLAN
 N.T.S.



SECTION A-A



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 0.177 sq. mi. Low Grade Elev. 525.16 @ Sta. 8007+25 E. Frontage Rd.

Flood	Freq. Yr.	Q C.F.S.	Opening Sq.Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	50	91	N/A	9.7	521.91	N/A	1.16	N/A	523.07
Base	100	114	N/A	10.9	522.20	N/A	1.32	N/A	523.52
Overtopping									

**GENERAL PLAN & ELEVATION
 EAST FRONTAGE ROAD DRIVEWAY
 OVER UNNAMED DITCH
 F.A.I. ROUTE 55 - SEC. (99-1&2)AC-3
 WILL COUNTY
 STATION 8007+25
 STRUCTURE NO. 099-3034**

LEGEND

Soil Boring Location

DESIGNED	VP
CHECKED	CL
DRAWN	VP
CHECKED	SP

SINGH
 SINGH & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 300 W. ADAMS ST.
 CHICAGO, IL 60606
 TEL: (312) 629-0240
 FAX: (312) 629-8449

SHEET NO.
 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	323
Sta. 8007+25 (E. Frontage Rd.)		CONTRACT NO. 60C31		
FED. RD. DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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FINAL

SB-01

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES:

1. All work on these sheets are to be performed in accordance with Articles 503, 540 and 543 of the Standard Specifications. See next sheet for the "Concrete End Sections" details.
2. This box culvert has no fill height. Precast concrete box culvert sections shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of AASHTO M273 (ASTM C 850), except that the aggregate shall conform to the requirements of Article 1003.02 of the Standard Specifications.
3. The Contractor shall determine whether culvert can be installed in two (2) or three (3) phases (Staging shown here is suggested only) and order sections' lengths as required. Joints to be sealed in accordance with Article 540.06 of the Standard Specifications.
4. For backfilling of embankment, see Article 207 thru 209 of the Standard Specifications.
5. Lifting holes shall be filled with concrete plugs and mastic, after box sections are in place.
6. Reinforcement and Concrete Quantities are provided for information only.

TOTAL BILL OF MATERIAL

Pay Item	Unit	Total
Cast-in-Place Reinforced Concrete End Sections	Each	2
Precast Concrete Box Culvert, 6'X3'	Foot	23
Steel Railing, Type 2399	Foot	20
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	5

BILL OF MATERIAL

Bar	No	Size	Length	Shape
b1	4	No. 5	8'-0"	—
b2	2	No. 4	11'-0"	—
b3	4	No. 4	14'-0"	—
b4	4	No. 4	16'-8"	—
b5	28	No. 4	5'-0"	—
b6	4	No. 4	6'-3"	—
d	24	No. 4	4'-3"	└┘
h1	6	No. 5	21'-0"	∧
h2	8	No. 5	6'-6"	—
v	4	No. 5	7'-1"	└┘
v1	4	No. 5	7'-1"	└┘
v2	4	No. 5	6'-9"	└┘
v3	4	No. 5	6'-6"	└┘
v4	4	No. 5	6'-2"	└┘
v5	4	No. 5	5'-11"	└┘
v6	4	No. 5	5'-8"	└┘
v7	4	No. 5	5'-4"	└┘
v8	4	No. 4	3'-1"	└┘

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DESIGNED	VP
CHECKED	CL
DRAWN	VP
CHECKED	SP

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SINGH & ASSOCIATES, INC.
CONSULTING ENGINEERS
300 W. ADAMS ST.
CHICAGO, IL 60606
TEL: (312) 629-0240
FAX: (312) 629-8449

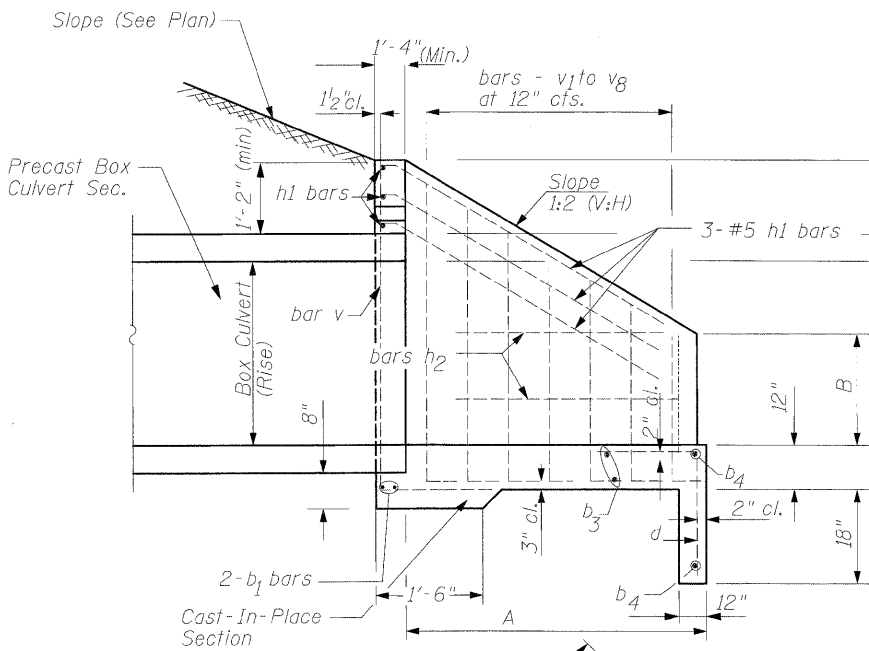
SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2)AC-3	WILL	524	324
SHEETS	Sta. 8007+25 (E. Frontage Rd.)		CONTRACT NO. 60C31		
	FED. RD. DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

FINAL

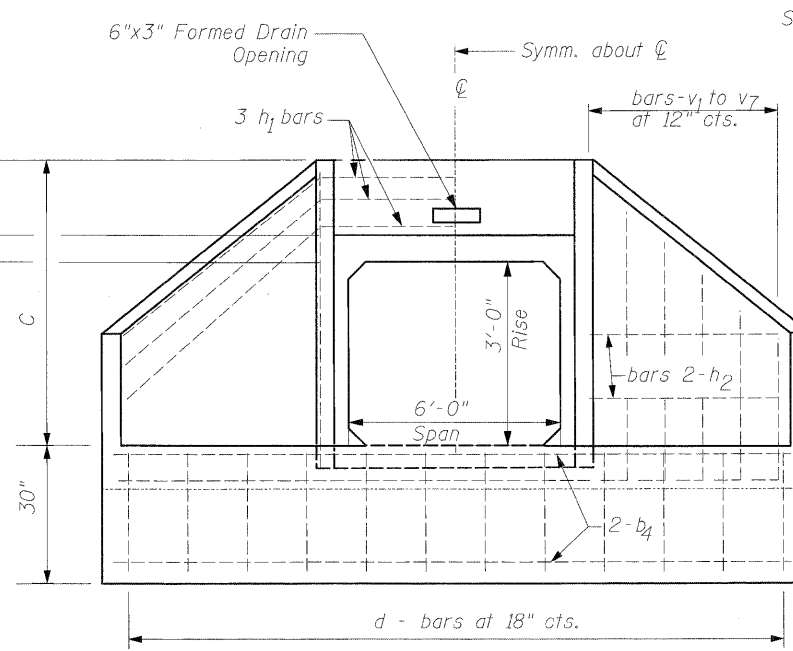
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**BARS IN ONE
END SECTION**

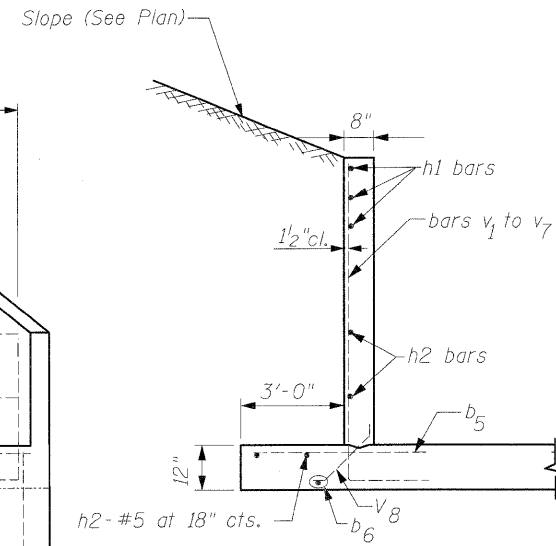
Bars	No.
d	12
b ₁	2
b ₂	1
b ₃	2
b ₄	2
b ₅	14
b ₆	2
h ₁	3
h ₂	4
v	2
v ₁	2
v ₂	2
v ₃	2
v ₄	2
v ₅	2
v ₆	2
v ₇	2
v ₈	14



SECTION A-A



END ELEVATION



SECTION B-B

DIMENSIONS OF BENT BARS

No. 5 - bars h ₁			
BARS	a	b	Total Length
h ₁	7'-8"	6'-8"	21'-0"
No. 5 - bars v to v ₇			
BARS	c	Total Length	
v	5'-1"	7'-1"	
v ₁	5'-1"	7'-1"	
v ₂	4'-9"	6'-9"	
v ₃	4'-6"	6'-6"	
v ₄	4'-2"	6'-2"	
v ₅	3'-11"	5'-11"	
v ₆	3'-8"	5'-8"	
v ₇	3'-4"	5'-4"	

**DIMENSIONS OF
STRAIGHT BARS**

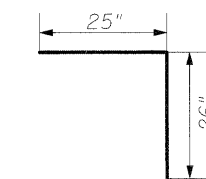
Bar	Size	Length
b ₁	No. 5	8'-0"
b ₂	No. 4	11'-0"
b ₃	No. 4	14'-0"
b ₄	No. 4	16'-8"
b ₅	No. 4	5'-0"
b ₆	No. 4	6'-3"
h ₂	No. 5	6'-6"

DIMENSIONS AND QUANTITIES

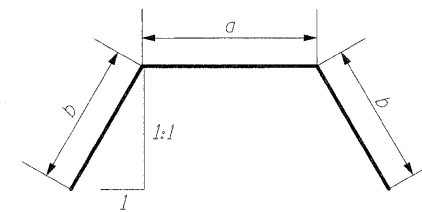
Box Culvert		Slope of Wing Walls	Dimensions						Concrete for two (2) End Sections (Cu. Yd.)	Reinf. Bars for two (2) End Sections (Lbs.)
Rise	Span		A	B	C	D	E	F		
36"	72"	1:2	4'-7"	34 1/2"	4'-9"	8'-0"	17'-2"	6'-9"	15	765

DESIGNED	VP
CHECKED	CL
DRAWN	VP
CHECKED	SP

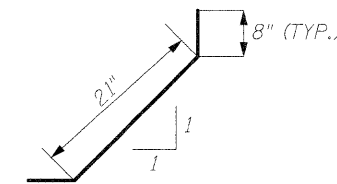
PLAN



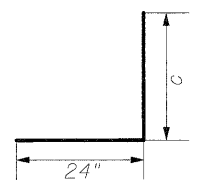
No. 4 BAR-d



BARS-h₁
Bend in field



BARS-v₈



BARS - v to v₇

NOTE:

1. Cast-In-Place Reinforced Concrete End Sections shall be constructed of Class SI concrete as per Article 503.

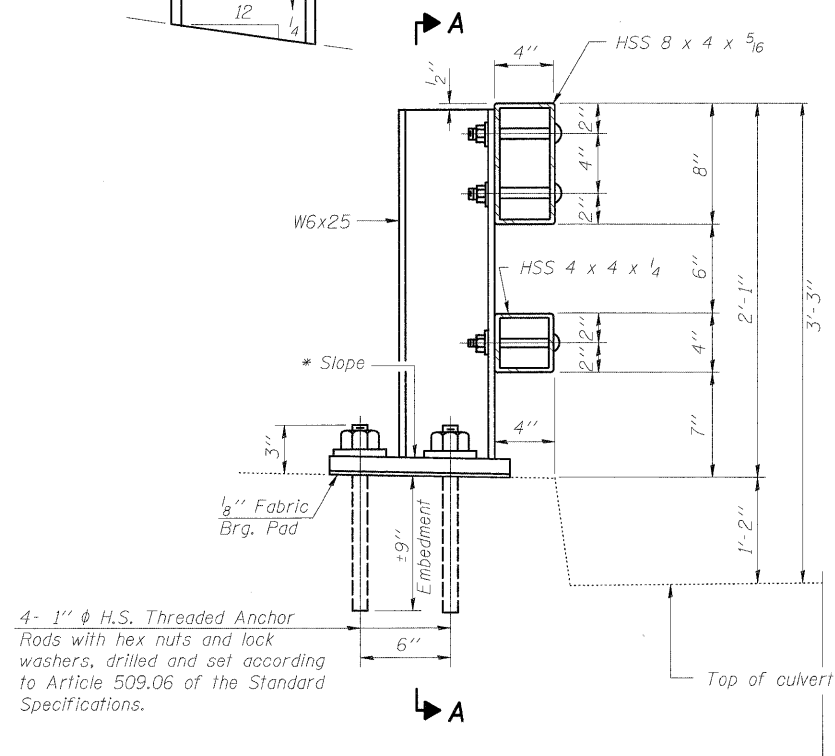
SINGH
SINGH & ASSOCIATES, INC.
CONSULTING ENGINEERS
300 W. ADAMS ST.
CHICAGO, IL 60606
TEL: (312) 629-0240
FAX: (312) 629-8449

SHEET NO.
SHEETS

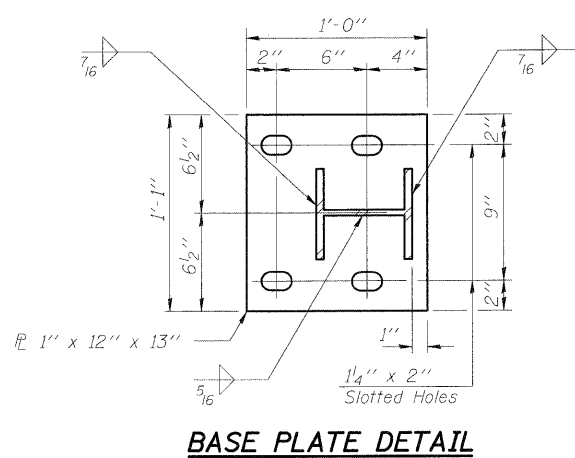
F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 325
Sta. 8007+25 (E. Frontage Rd.)		CONTRACT NO. 60C31		
FED. RD. DIST. NO. 1 ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

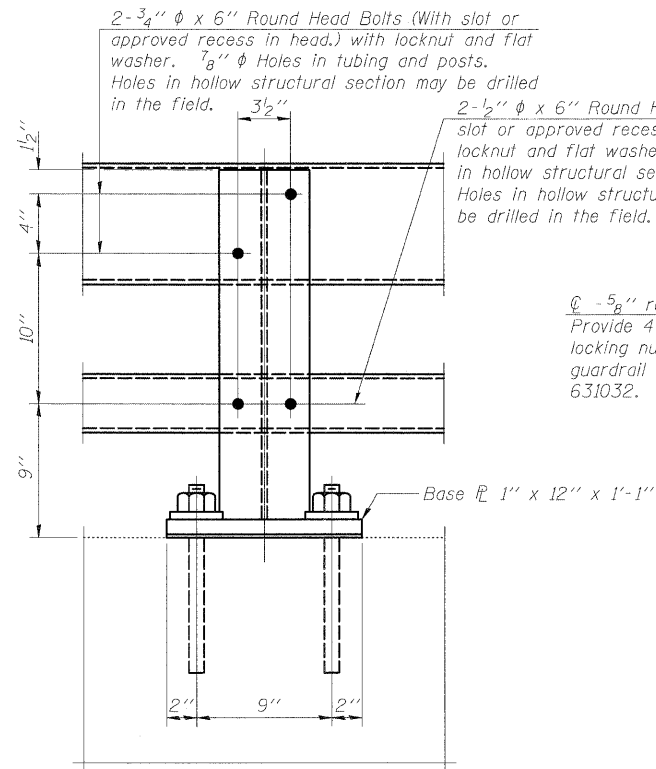
* Cut bottom end of post to curb slope.



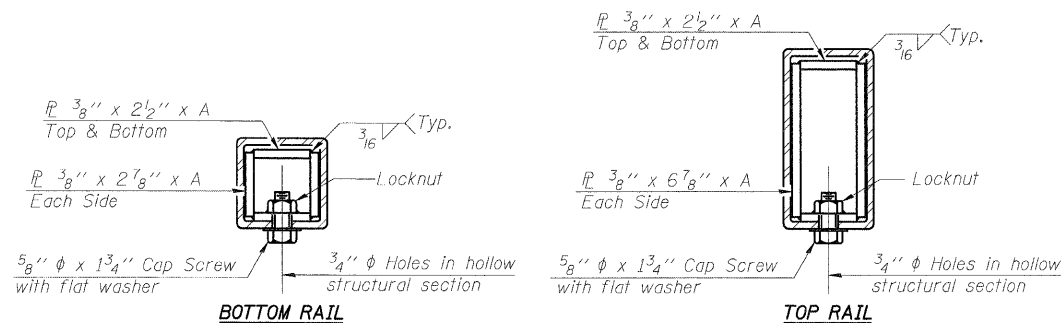
SECTION AT RAIL POST



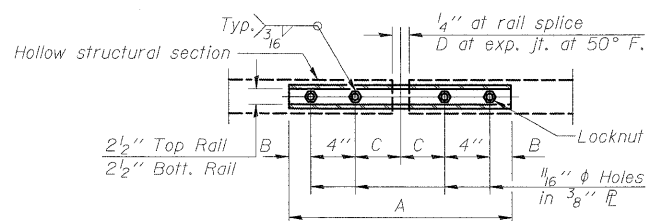
BASE PLATE DETAIL



SECTION A-A

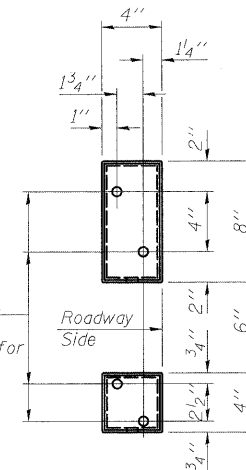


SECTIONS AT RAIL SPLICE

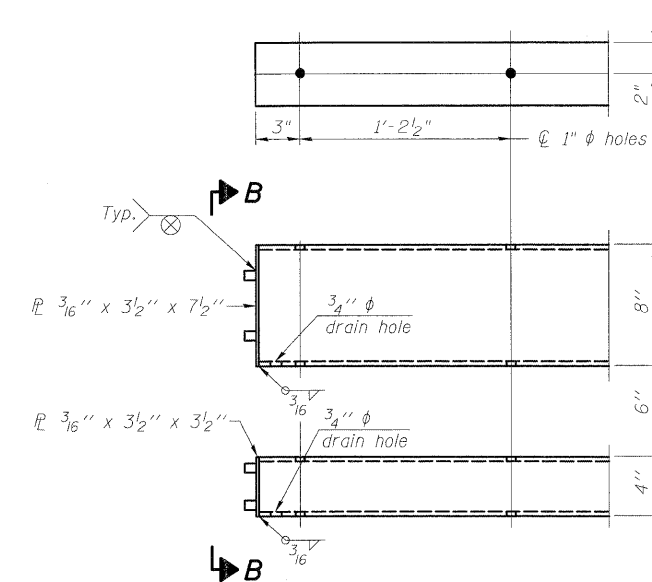


PLAN-BOTT. SPLICE TYPICAL

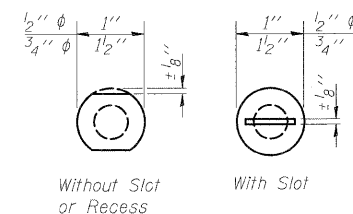
RAIL SPLICE CONNECTION AT EXPANSION JT.



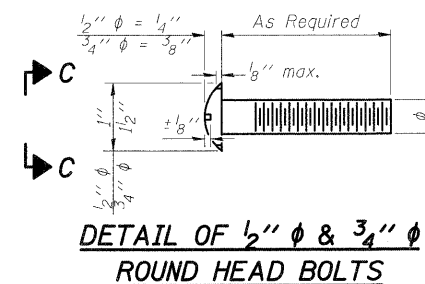
VIEW B-B



END OF RAIL DETAILS



VIEW C-C



DETAIL OF 1/2" & 3/4" ROUND HEAD BOLTS

Notes:
All field drilled holes shall be coated with an approved zinc rich paint before erection.
Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.
Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.
Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

SPLICE DIMENSIONS

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

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

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	20

STEEL RAILING, TYPE 2399
STRUCTURE NO. 099-3034

DESIGNED	VP
CHECKED	CL
DRAWN	VP
CHECKED	SP

R-31

10-1-08

(6'-3" Maximum Post Spacing)

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300 W. ADAMS ST.
CHICAGO, IL 60606
TEL: (312) 629-0240
FAX: (312) 629-8449

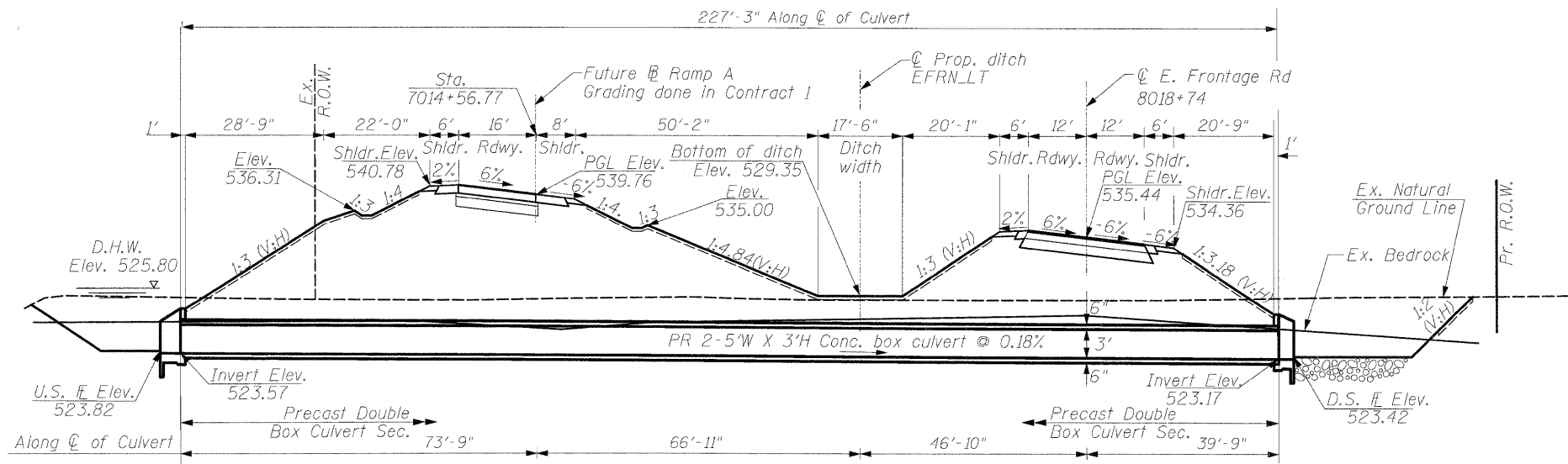
SHEET NO.
SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	326
Sta. 8007+25 (E. Frontage Rd.)		CONTRACT NO. 60C31		
FED. RD. DIST. NO. 1 ILLINOIS FED. AID PROJECT				

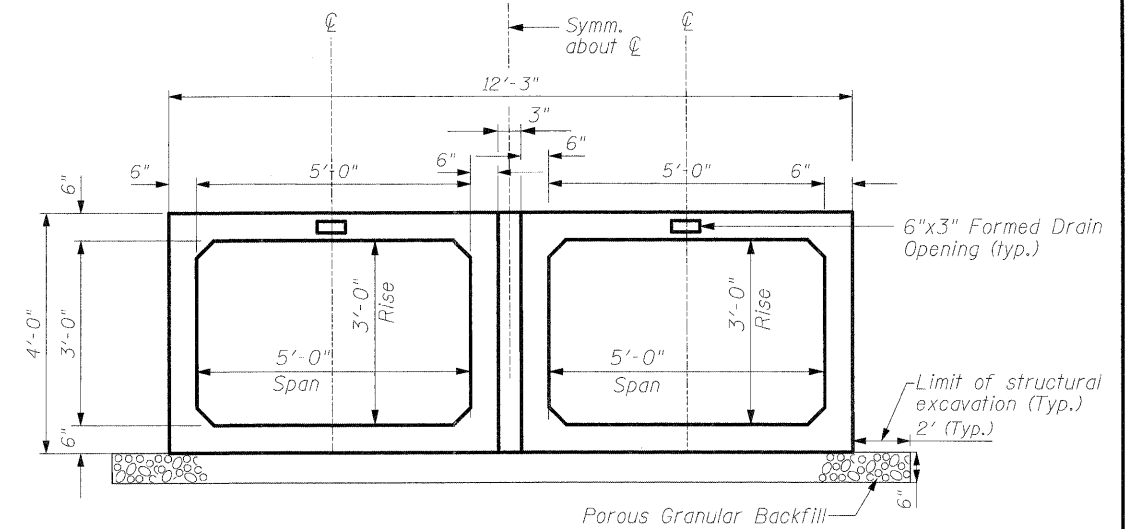
SB-03A

Bench Mark: BM 7
 (RR spike in E. side of power pole +6.5' tall at the South Edge
 of a pond on the E. side of E. Frontage Rd. between CPT'S 214 & 215. Elev.=556.123
 Existing Structures: None.

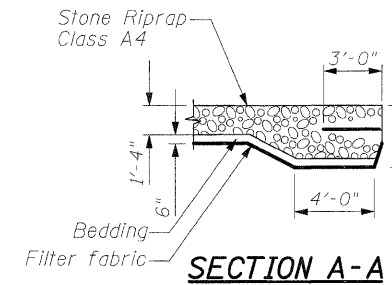
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION



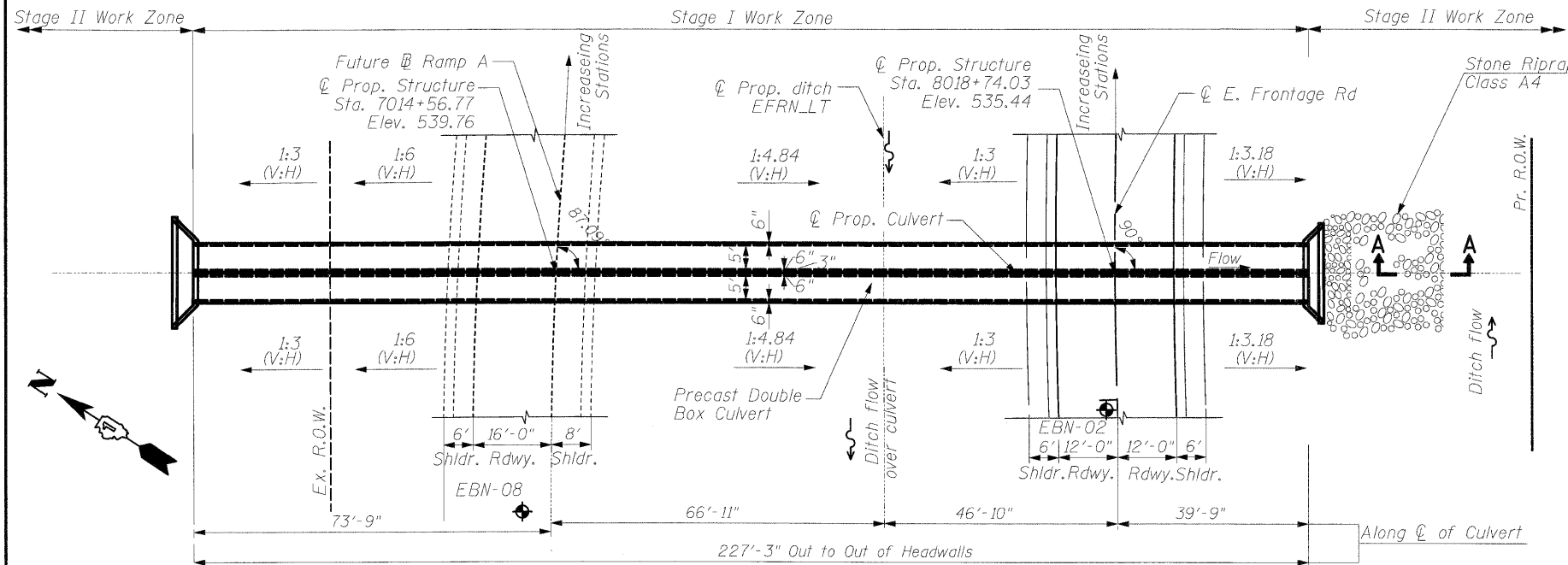
LONGITUDINAL SECTION
 N.T.S.



SECTION THRU BARREL
 N.T.S.



SECTION A-A



PLAN
 N.T.S.

CURVE DATA

P.I. Station 8015+77.77
 Delta = 36° 00' 38.32" (RT)
 Degree = 5° 21' 17.08"
 Tangent = 347.7740'
 Length = 672.4996'
 Radius = 1,070.00'
 External = 55.0985'
 Long Chord = 661.4854'
 Mid. Ord. = 52.4002'
 P.C. Station 8012+30.00
 P.T. Station 8019+02.50

CURVE DATA

P.I. Station 7015+25.31
 Delta = 61° 20' 36.44" (RT)
 Degree = 6° 51' 42.37"
 Tangent = 495.2296'
 Length = 893.9888'
 Radius = 835.00'
 External = 135.8127'
 Long Chord = 851.8980'
 Mid. Ord. = 116.8131'
 P.C. Station 7010+30.08
 P.T. Station 7019+24.07

DESIGN SPECIFICATIONS

AASHTO 2002

LOADING HS-20-44

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

DESIGN STRESSES

FIELD UNITS

Cast-In-Place Units

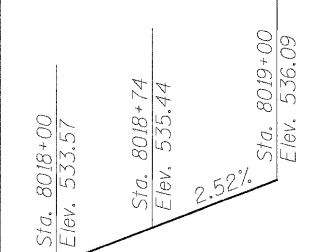
$f'_c = 3,500$ psi (Concrete)
 $f_y = 60,000$ psi (Reinforcement)

Precast Units

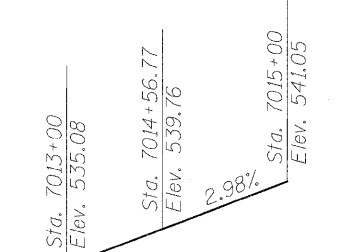
$f'_c = 5,000$ psi (Concrete)
 $f_y = 65,000$ psi (Welded Wire Fabric)

SEISMIC DATA

Seismic Performance Zone (SPC) = A
 Bedrock Acceleration Coeff.(A) = 0.04g
 Site Coefficient (S) = 1.0



PROFILE GRADE
 (Along E. Frontage Rd.)



PROFILE GRADE
 (Along Ramp A)

GENERAL PLAN & ELEVATION-RAMP A
 OVER UNNAMED DITCH
 F.A.I. ROUTE 55 - SEC. (99-182)AC-3
 WILL COUNTY
 STATION 7014+56.77
 STRUCTURE NO. 099-0523

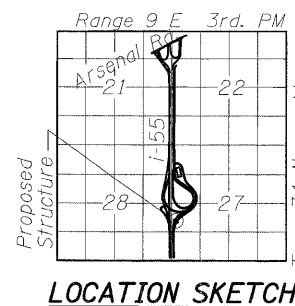
LEGEND

◆ - Soil Boring Location

WATERWAY INFORMATION

Drainage Area = 0.168 sq. mi. Low Grade Elev. 534.36 @ Sta. 8018+74 E. Frontage Rd.

	Flood	Freq. Yr.	Q C.F.S.	Opening Sq.Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
				Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design		50	83	N/A	16.3	524.63	N/A	1.17	N/A	525.80
Base		100	109	N/A	19.6	524.94	N/A	1.3	N/A	526.24
Overtopping			405							



LOCATION SKETCH

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 SINGH & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 300 W. ADAMS ST.
 CHICAGO, IL 60606
 TEL: (312) 629-0240
 FAX: (312) 629-8449

SHEET NO.
 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-182)AC-3	WILL	524	327
Sta.8018+74 (E. Frontage Rd.)		CONTRACT NO. 60C31		
FED. RD. DIST. NO. 1 ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES:

1. All work on these sheets are to be performed in accordance with Articles 503, 540 and 543 of the Standard Specifications. See next sheet for the "Concrete End Sections" details.
2. This box culvert has an approximate fill height of 11.0-ft. The precast concrete box culvert sections shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of AASHTO M259 (ASTM C 789), except that the aggregate shall conform to the requirements of Article 1003.02 of the Standard Specifications.
3. The Contractor shall determine whether culvert can be installed in two (2) or three (3) phases (Staging shown here is suggested only) and order sections' lengths as required. Joints to be sealed in accordance with Article 540.06 of the Standard Specifications.
4. For backfilling of embankment, see Article 207 thru 209 of the Standard Specifications.
5. 3-inch void between individual precast box culverts is to be filled with Class SI concrete in accordance with Article 540.06 of the Standard Specifications, no additional payment will be made for the Class SI concrete. The cost of the Class SI concrete is included with the unit price bid for "Precast Concrete Box Culvert 5-ft by 3-ft" size as indicated.
6. Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.
7. Reinforcement and Concrete Quantities are provided for information only.

TOTAL BILL OF MATERIAL

Pay Item	Unit	Total
Cast-in-Place Reinforced Concrete End Sections	Each	2
Precast Concrete Box Culvert, 5'X3'	Foot	455
Rock Excavation For Structures	Cu.Yd.	412
Removal and Disposal of Unsuitable Material for Structures	Cu.Yd.	77

BILL OF MATERIAL

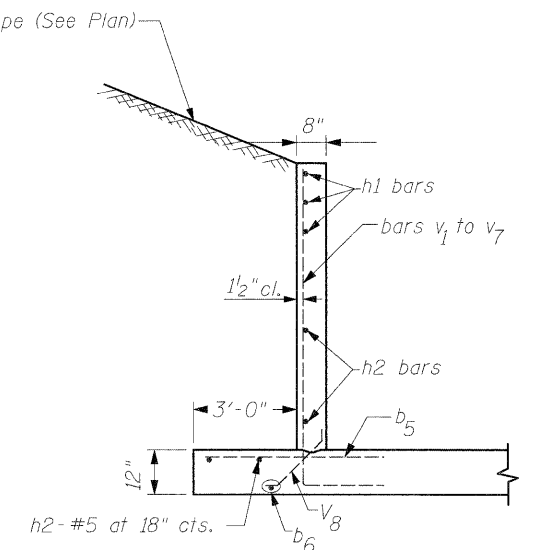
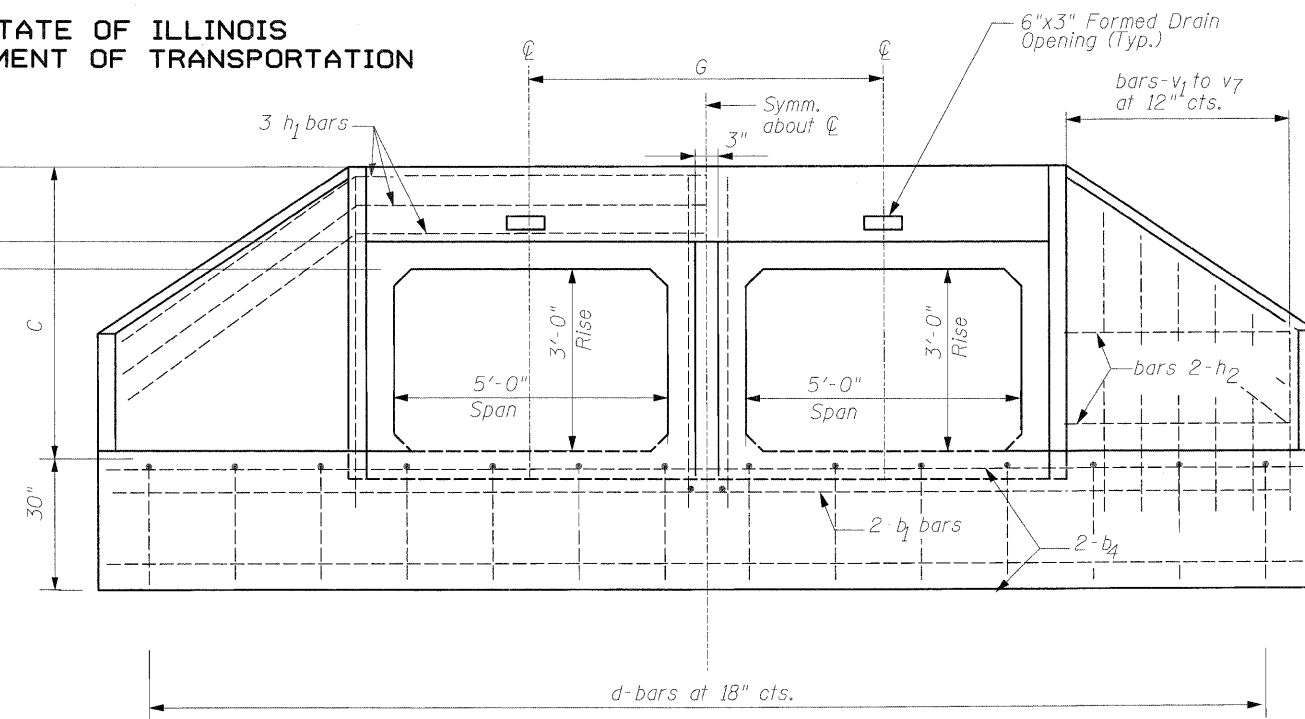
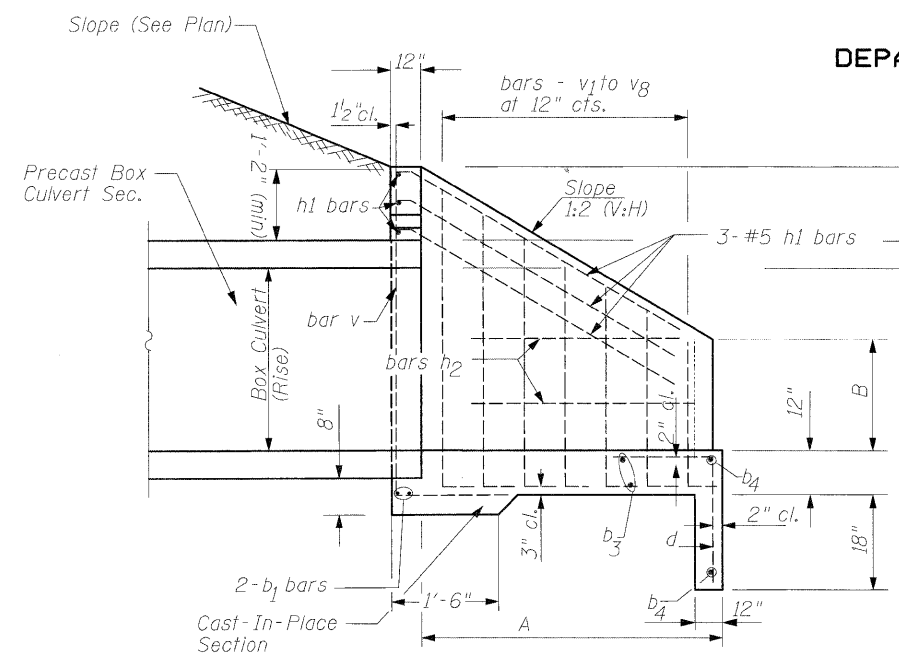
Bar	No	Size	Length	Shape
b ₁	4	No. 5	12'-9"	—
b ₂	2	No. 4	15'-9"	—
b ₃	4	No. 4	18'-9"	—
b ₄	4	No. 4	21'-9"	—
b ₅	28	No. 4	5'-0"	—
b ₆	4	No. 4	6'-3"	—
d	32	No. 4	4'-3"	└
h ₁	6	No. 5	25'-9"	∩
h ₂	8	No. 5	6'-6"	—
v	8	No. 5	7'-1"	└
v ₁	4	No. 5	7'-1"	└
v ₂	4	No. 5	6'-9"	└
v ₃	4	No. 5	6'-6"	└
v ₄	4	No. 5	6'-2"	└
v ₅	4	No. 5	5'-11"	└
v ₆	4	No. 5	5'-8"	└
v ₇	4	No. 5	5'-4"	└
v ₈	28	No. 4	3'-1"	└

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DESIGNED	VP
CHECKED	CL
DRAWN	VP
CHECKED	SP

SINGH <small>SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS</small>	<small>300 W. ADAMS ST. CHICAGO, IL 60606 TEL: (312) 629-0240 FAX: (312) 629-8449</small>	SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		SHEETS	55	(99-1&2)AC-3	WILL	524	328
		Sta.8018+74 (E. Frontage Rd.)		CONTRACT NO. 60C31		FED. RD. DIST. NO. 1	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

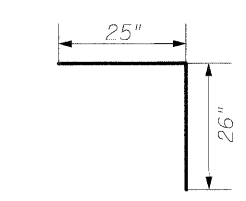
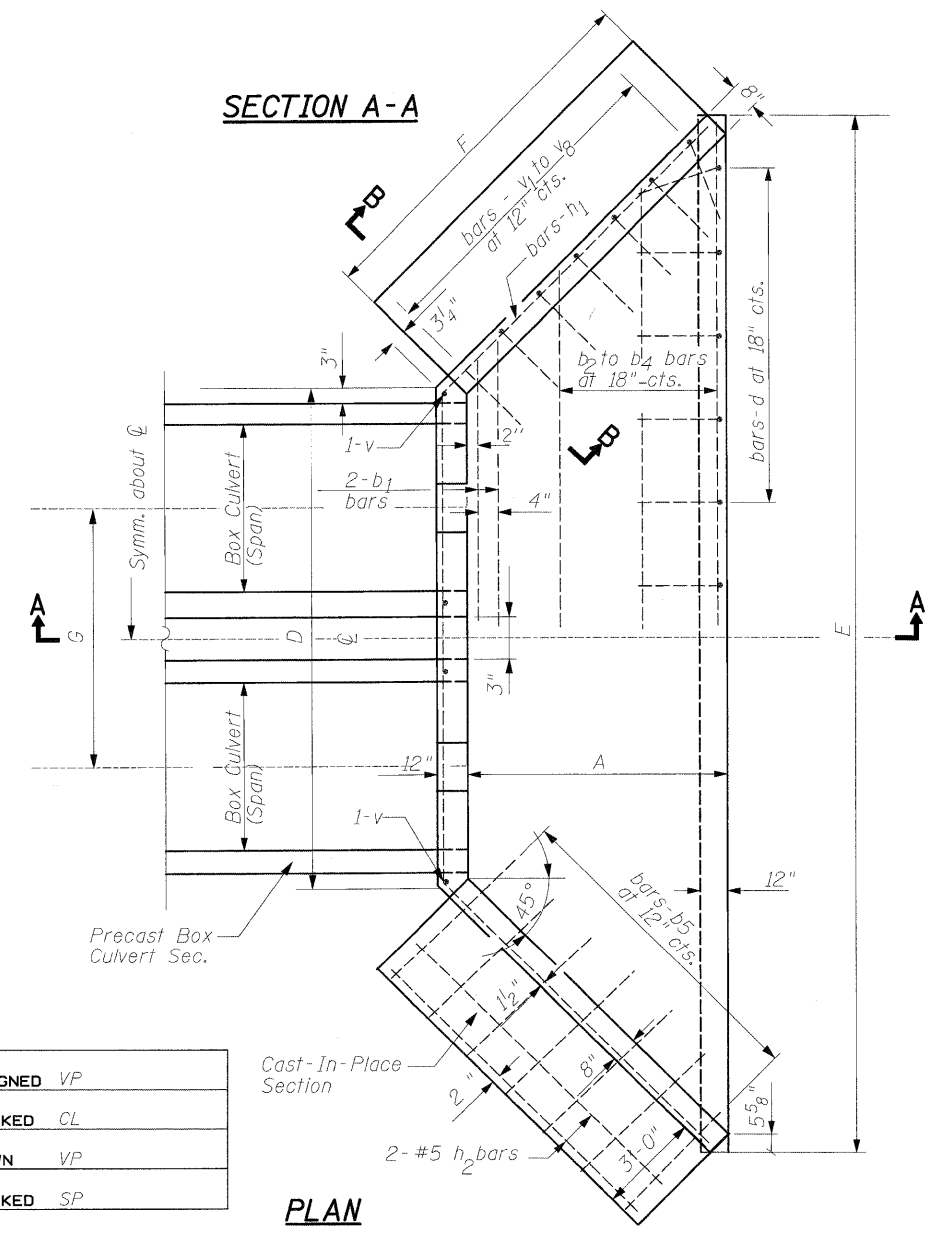


SECTION B-B

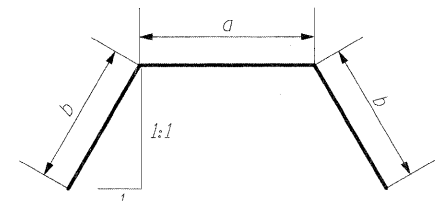
SECTION A-A

END ELEVATION

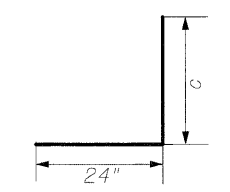
DIMENSIONS OF BENT BARS



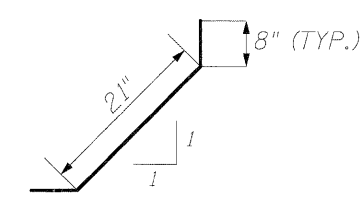
No. 4 BAR-d



BARS-h1
Bend in field



BARS - v1 to v7



BARS-v8

BARS IN ONE END SECTION

Box Culvert 5'x3'	Bars	No.
d	16	
b1	2	
b2	1	
b3	2	
b4	2	
b5	14	
b6	2	
h1	3	
h2	4	
v	4	
v1	2	
v2	2	
v3	2	
v4	2	
v5	2	
v6	2	
v7	2	
v8	14	

DIMENSIONS OF STRAIGHT BARS

Bar	Size	Length
b1	No. 5	12'-9"
b2	No. 4	15'-9"
b3	No. 4	18'-9"
b4	No. 4	21'-9"
b5	No. 4	5'-0"
b6	No. 4	6'-3"
h2	No. 5	9'-8"

No. 5 - bars h1			
BARS	a	b	Total Length
h1	12'-5"	6'-8"	25'-9"
No. 5 - bars v to v7			
BARS	c	Total Length	
v	5'-1"	7'-1"	
v1	5'-1"	7'-1"	
v2	4'-9"	6'-9"	
v3	4'-6"	6'-6"	
v4	4'-2"	6'-2"	
v5	3'-11"	5'-11"	
v6	3'-8"	5'-8"	
v7	3'-4"	5'-4"	

DIMENSIONS AND QUANTITIES

Box Culvert	Slope of Wing Walls	Dimensions							Concrete for two (2) End Sections (Cu. Yd.)	Reinf. Bars for two (2) End Sections (Lbs.)	
		Rise	Span	A	B	C	D	E			F
36"	60"	1:2	4'-7"	34 1/2"	4'-9"	12'-9"	21'-11"	6'-9"	6'-3"	36	885

DESIGNED	VP
CHECKED	CL
DRAWN	VP
CHECKED	SP

PLAN

NOTE:
1. Cast-In-Place Reinforced Concrete End Sections shall be constructed of Class SI concrete as per Article 503.

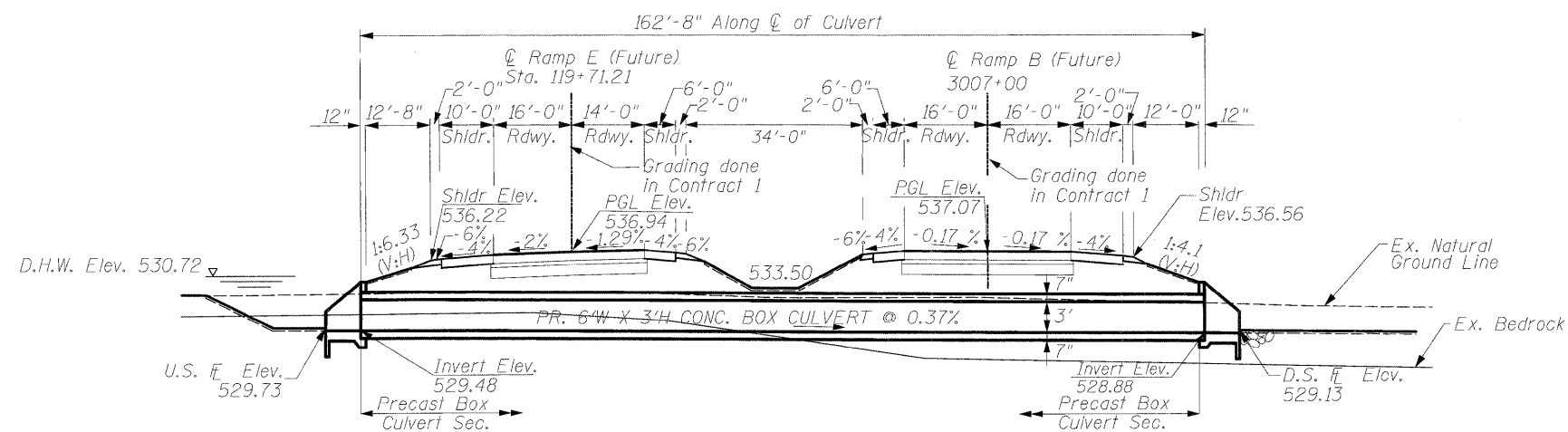
SINGH 300 W. ADAMS ST.
CHICAGO, IL 60606
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240
CONSULTING ENGINEERS FAX: (312) 629-8449

SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2)AC-3	WILL	524	329
SHEETS	Stg.8018+74 (E. Frontage Rd.)		CONTRACT NO. 60C31		
FED. RD. DIST. NO. 1		ILLINOIS FED. AID PROJECT			

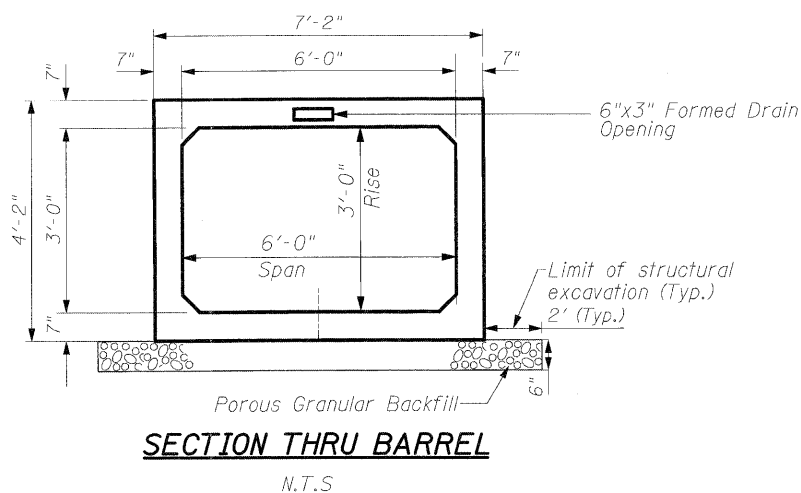
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Bench Mark: BM 9
 Box Cut on S. corner of traffic handhole foundation at the SE corner
 of Arsenal Road and E. Frontage Road. Elev. = 545.485
 Existing Structures: None

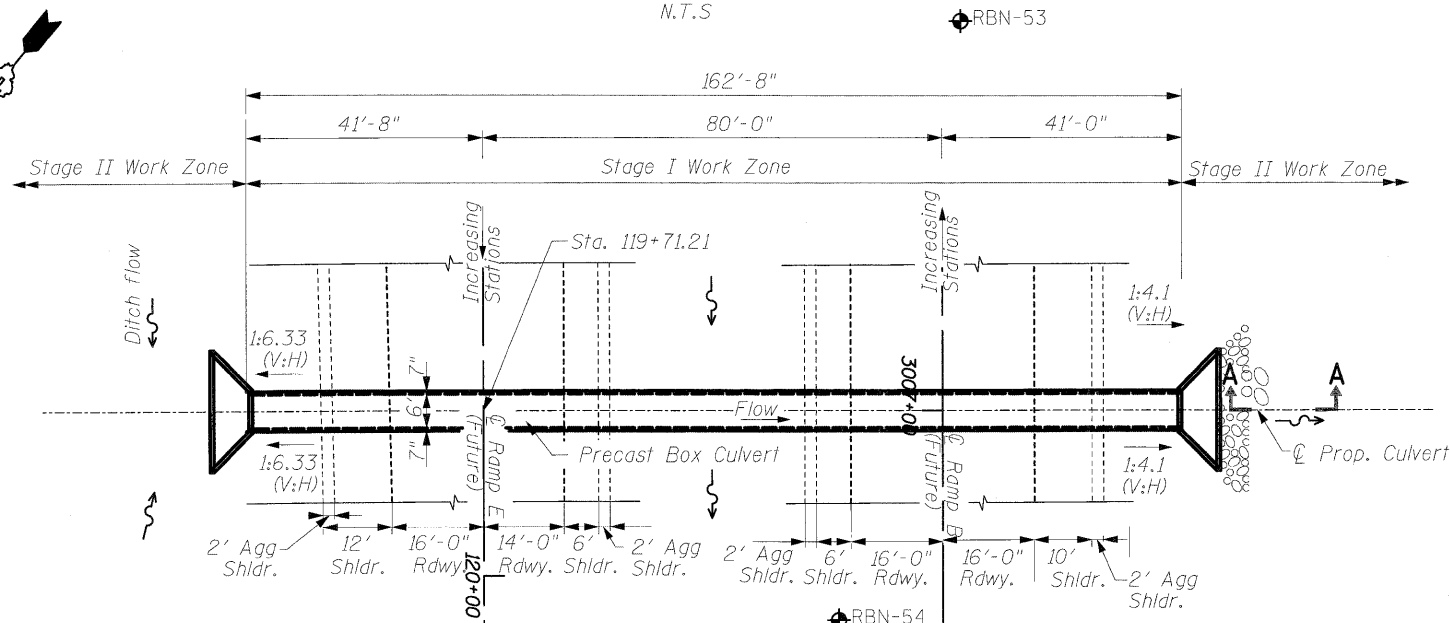
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION



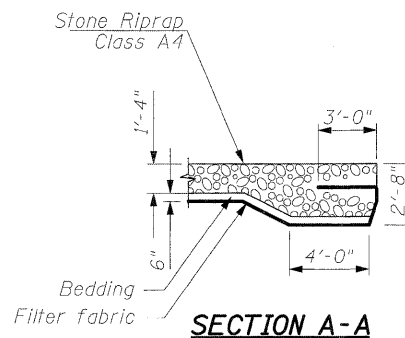
LONGITUDINAL SECTION
 N.T.S



SECTION THRU BARREL
 N.T.S



PLAN
 N.T.S



SECTION A-A

DESIGN SPECIFICATIONS
 AASHTO 2002

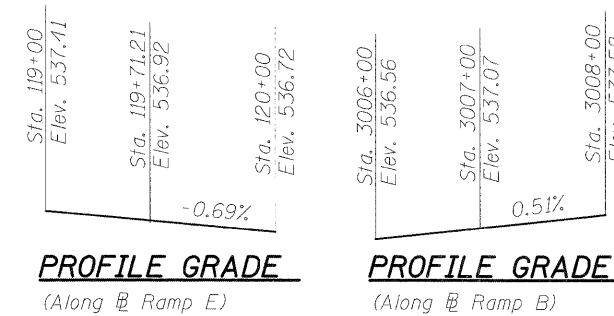
LOADING HS-20-44
 Allow 50 lbs/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS
 Cast-In-Place Units
 $f'_c = 3,500$ psi (Concrete)
 $f_y = 60,000$ psi (Reinforcement)
 Precast Units
 $f'_c = 5,000$ psi (Concrete)
 $f_y = 65,000$ psi (Welded Wire Fabric)

SEISMIC DATA

Seismic Performance Zone (SPC) = A
 Bedrock Acceleration Coeff.(A) = 0.04g
 Site Coefficient (S) = 1.0



PROFILE GRADE
 (Along Ramp E)

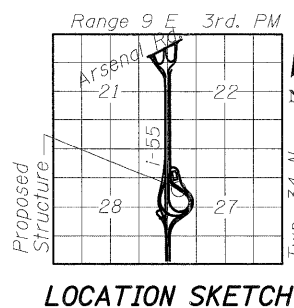
PROFILE GRADE
 (Along Ramp B)

GENERAL PLAN & ELEVATION-RAMP B
 OVER UNNAMED DITCH
 F.A.I. ROUTE 55 - SEC. (99-1&2)AC-3
 WILL COUNTY
 STATION 3007+00

WATERWAY INFORMATION

Drainage Area = 0.0162 sq. mi. Low Grade Elev. 536.22 @ Sta. 3007+00 Ramp B

Flood	Freq. Yr.	Q C.F.S.	Opening Sq.Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	50	24.8	N/A	4.5	530.00	N/A	0.72	N/A	530.72
Base	100	29.1	N/A	5.1	530.09	N/A	0.77	N/A	530.86
Overtopping		190.9							



LOCATION SKETCH

SINGH
 SINGH & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 300 W. ADAMS ST.
 CHICAGO, IL 60606
 TEL: (312) 629-0240
 FAX: (312) 629-8449

SHEET NO.
 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	330
Sta. 3007+00 (Ramp B)		CONTRACT NO. 60C31		
FED. RD. DIST. NO. 1 ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES:

1. All work on these sheets are to be performed in accordance with Articles, 503, 540 and 543 of the Standard Specifications. See next sheet for the "Concrete End Sections" details.
2. This box culvert has an approximate fill height of 4.0-ft. The precast concrete box culvert sections shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of AASHTO M259 (ASTM C 789), except that the aggregate shall conform to the requirements of Article 1003.02 of the Standard Specifications.
3. The Contractor shall determine whether culvert can be installed in two (2) or three (3) phases (Staging shown here is suggested only) and order sections' lengths as required. Joints to be sealed in accordance with Article 540.06 of the Standard Specifications.
4. For backfilling of embankment, see Article 207 thru 209 of the Standard Specifications.
5. Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.
6. Reinforcement and Concrete Quantities are provided for information only.

TOTAL BILL OF MATERIAL

Pay Item	Unit	Total
Cast-in-Place Reinforced Concrete End Sections	Each	2
Precast Concrete Box Culvert, 6'X3'	Foot	163
Rock Excavation For Structures	Cu.Yd.	36
Removal and Disposal of Unsuitable Material for Structures	Cu.Yd.	32

BILL OF MATERIAL

Bar	No	Size	Length	Shape
b ₁	4	No. 5	8'-0"	—
b ₂	2	No. 4	11'-0"	—
b ₃	4	No. 4	14'-0"	—
b ₄	4	No. 4	16'-8"	—
b ₅	28	No. 4	5'-0"	—
b ₆	4	No. 4	6'-3"	—
d	24	No. 4	4'-3"	└┘
h ₁	6	No. 5	21'-0"	∧
h ₂	8	No. 5	6'-6"	—
v	4	No. 5	7'-1"	└┘
v ₁	4	No. 5	7'-1"	└┘
v ₂	4	No. 5	6'-9"	└┘
v ₃	4	No. 5	6'-6"	└┘
v ₄	4	No. 5	6'-2"	└┘
v ₅	4	No. 5	5'-11"	└┘
v ₆	4	No. 5	5'-8"	└┘
v ₇	4	No. 5	5'-4"	└┘
v ₈	28	No. 4	3'-1"	└┘

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DESIGNED	VP
CHECKED	CL
DRAWN	VP
CHECKED	SP

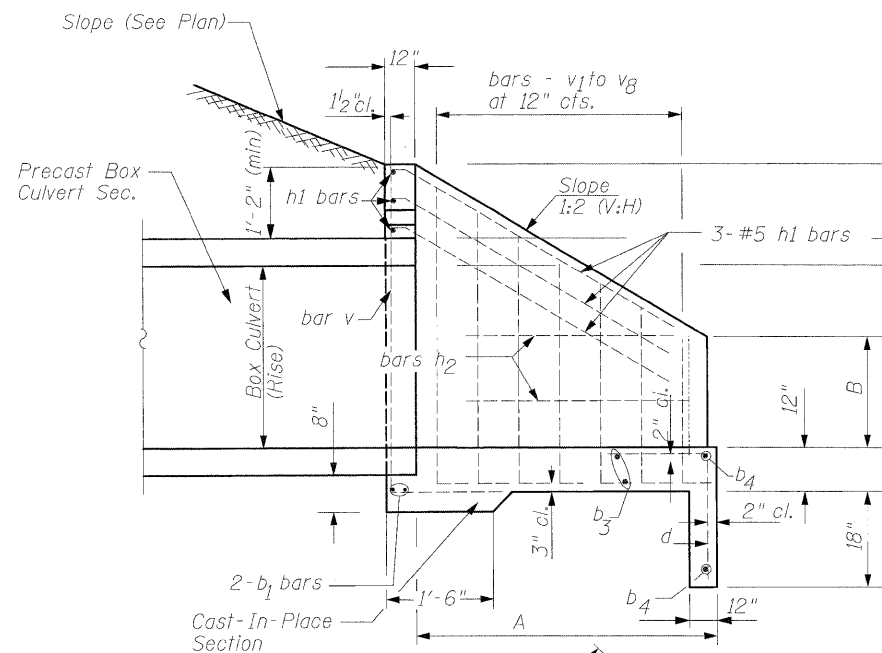
SINGH
SINGH & ASSOCIATES, INC.
CONSULTING ENGINEERS
300 W. ADAMS ST.
CHICAGO, IL 60606
TEL: (312) 629-0240
FAX: (312) 629-8449

SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2)AC-3	WILL	524	331
SHEETS	Sta. 3007+00 (Ramp B)		CONTRACT NO. 60C31		
FED. RD. DIST. NO. 1 ILLINOIS FED. AID PROJECT					

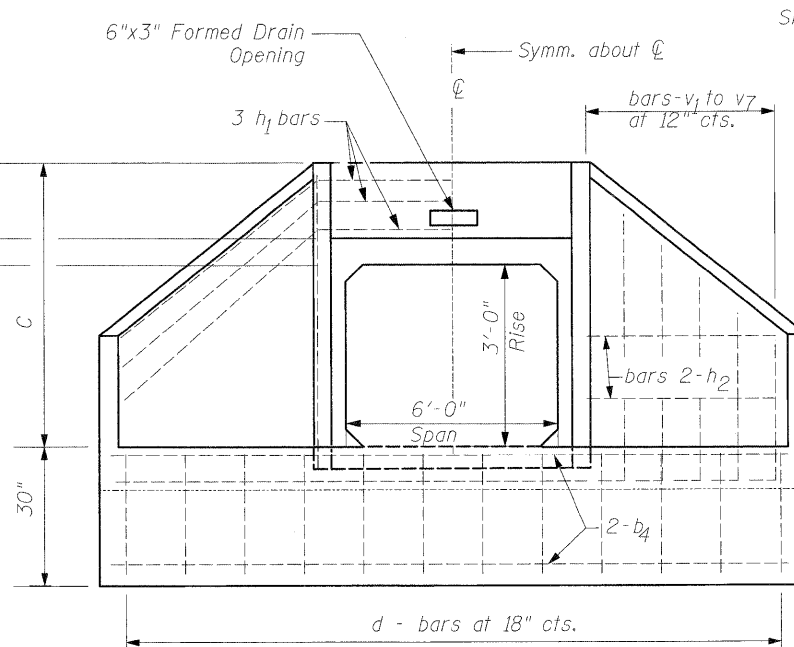
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**BARS IN ONE
END SECTION**

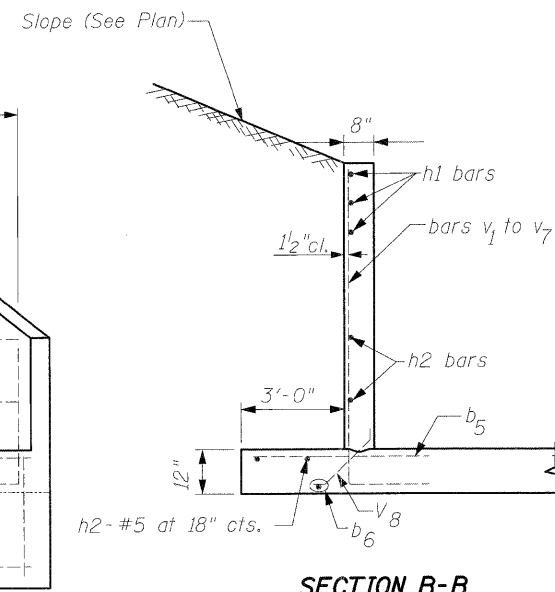
Box Culvert 6'x3'	
Bars	No.
d	12
b ₁	2
b ₂	1
b ₃	2
b ₄	2
b ₅	14
b ₆	2
h ₁	3
h ₂	4
v	2
v ₁	2
v ₂	2
v ₃	2
v ₄	2
v ₅	2
v ₆	2
v ₇	2
v ₈	14



SECTION A-A



END ELEVATION



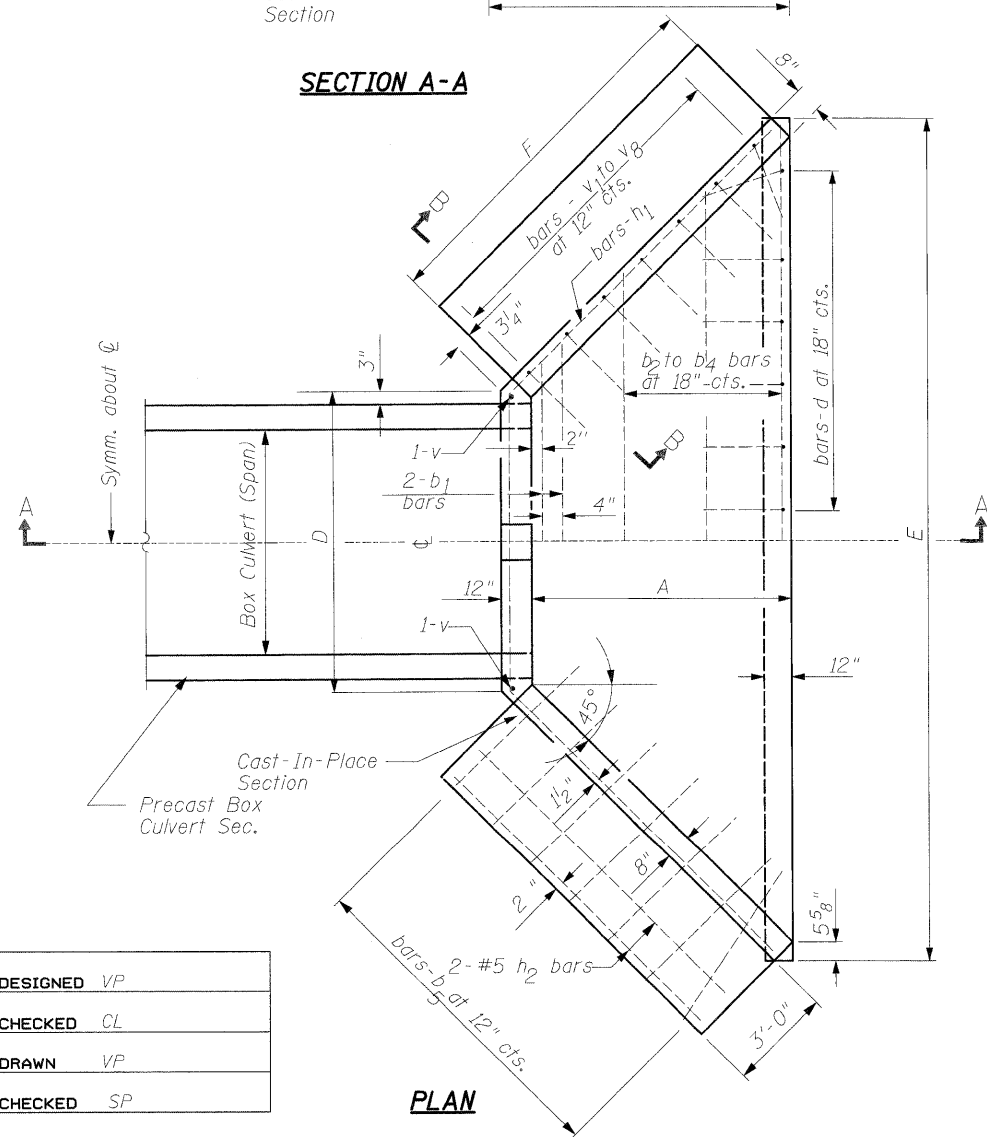
SECTION B-B

DIMENSIONS OF STRAIGHT BARS

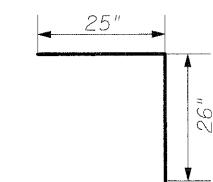
Bar	Size	Length
b ₁	No. 5	8'-0"
b ₂	No. 4	11'-0"
b ₃	No. 4	14'-0"
b ₄	No. 4	16'-8"
b ₅	No. 4	5'-0"
b ₆	No. 4	6'-3"
h ₂	No. 5	6'-6"

DIMENSIONS OF BENT BARS

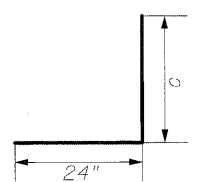
No. 5 - bars h ₁			
BARS	a	b	Total Length
h ₁	7'-8"	6'-8"	21'-0"
No. 5 - bars v to v ₇			
BARS	c	Total Length	
v	5'-1"	7'-1"	
v ₁	5'-1"	7'-1"	
v ₂	4'-9"	6'-9"	
v ₃	4'-6"	6'-6"	
v ₄	4'-2"	6'-2"	
v ₅	3'-11"	5'-11"	
v ₆	3'-8"	5'-8"	
v ₇	3'-4"	5'-4"	



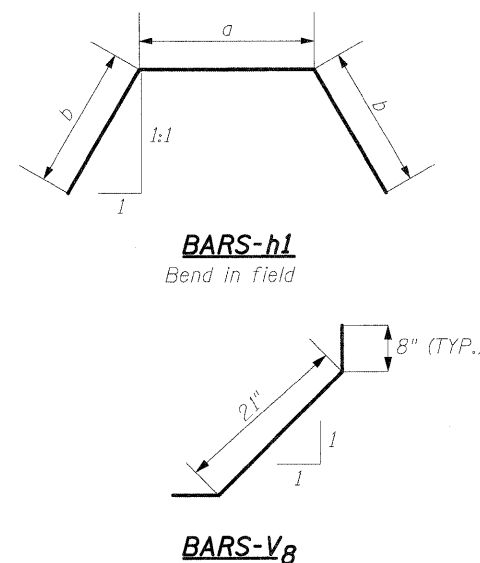
PLAN



No. 4 BAR-d



BARS - v to v₇



BARS-h₁
Bend in field

BARS-V₈

DIMENSIONS AND QUANTITIES

Box Culvert		Slope of Wing Walls	Dimensions						Concrete for two (2) End Sections (Cu. Yd.)	Reinf. Bars for two (2) End Sections (Lbs.)
Rise	Span		A	B	C	D	E	F		
36"	72"	1:2	4'-7"	34 1/2"	4'-9"	8'-0"	17'-2"	6'-9"	15	765

NOTE:
1. Cast-In-Place Reinforced Concrete End Sections shall be constructed of Class SI concrete as per Article 503.

DESIGNED	VP
CHECKED	CL
DRAWN	VP
CHECKED	SP

SINGH
SINGH & ASSOCIATES, INC.
CONSULTING ENGINEERS

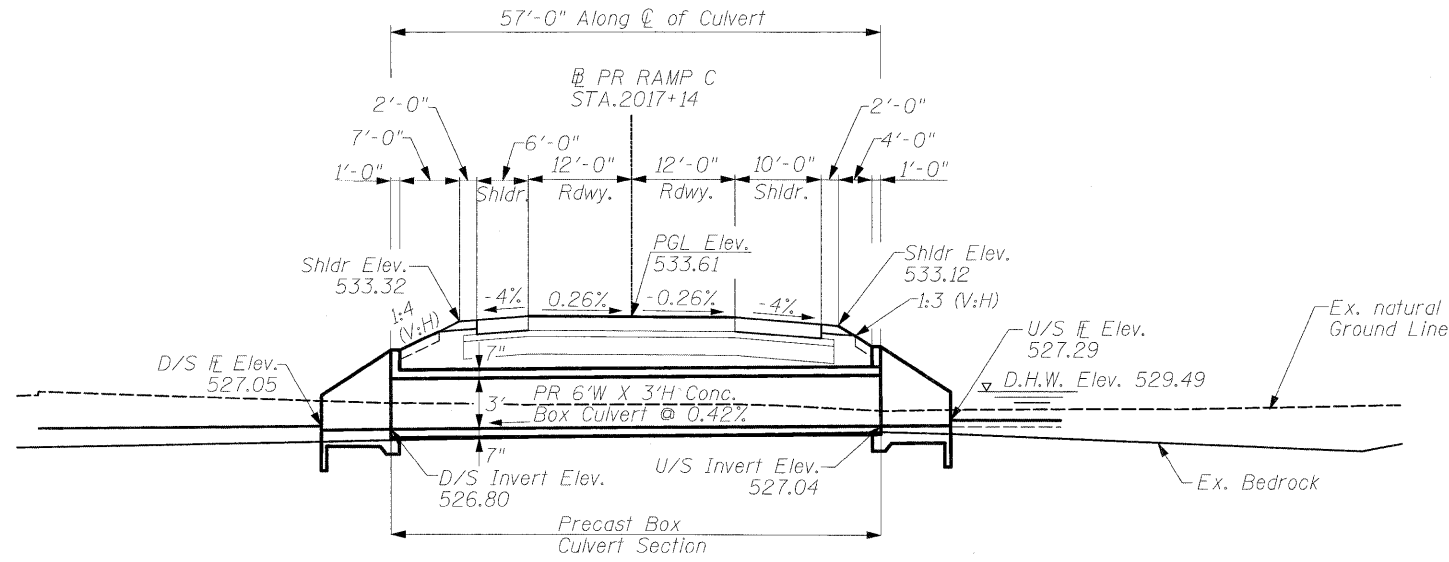
300 W. ADAMS ST.
CHICAGO, IL 60606
TEL: (312) 629-0240
FAX: (312) 629-8449

SHEET NO.
SHEETS

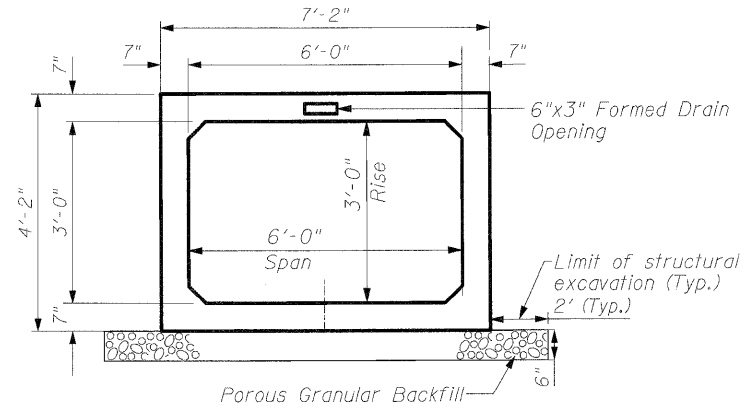
F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 332
Sta. 3007+00 (Ramp B)		CONTRACT NO. 60C31		
FED. RD. DIST. NO. 1 ILLINOIS FED. AID PROJECT				

Bench Mark: BM 4
 (RR spike in 2nd power pole North of CPT 207 ±1' above ground. Elev. = 534.690)
 Existing Structures: None

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION



LONGITUDINAL SECTION
 N.T.S.



SECTION THRU BARREL
 N.T.S.

DESIGN SPECIFICATIONS
 AASHTO 2002

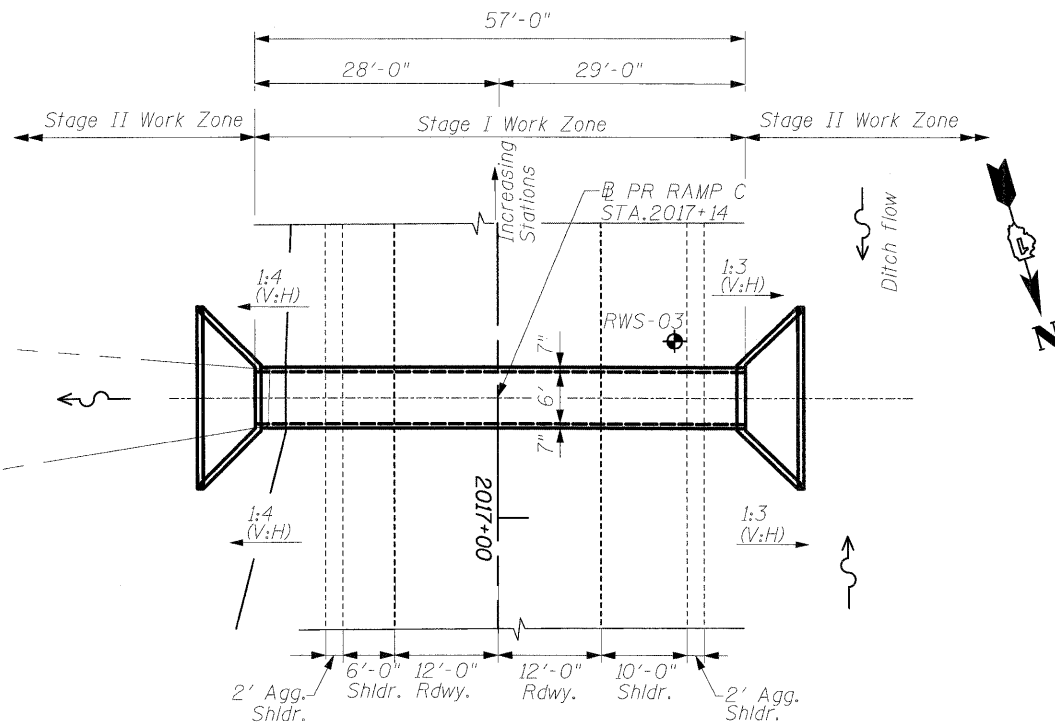
LOADING HS-20-44
 Allow 50 lbs/sq. ft. for future wearing surface.

DESIGN STRESSES

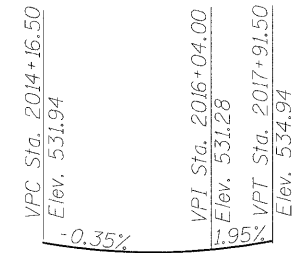
FIELD UNITS
 Cast-In-Place Units
 $f'_c = 3,500$ psi (Concrete)
 $f_y = 60,000$ psi (Reinforcement)
 Precast Units
 $f'_c = 5,000$ psi (Concrete)
 $f_y = 65,000$ psi (Welded Wire Fabric)

SEISMIC DATA

Seismic Performance Zone (SPC) = A
 Bedrock Acceleration Coeff.(A) = 0.04g
 Site Coefficient (S) = 1.0



PLAN
 N.T.S.



PROFILE GRADE
 (Along Ramp C)

WATERWAY INFORMATION

Drainage Area = 0.0296 sq. mi. Low Grade Elev. 533.12 @ Sta. 2017+14

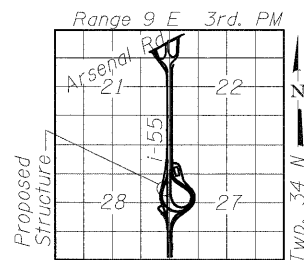
Flood	Freq. Yr.	Q C.F.S.	Opening Sq.Ft.		Nat. H.W.E.	Head -Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	50	59.5	N/A	7.8	527.65	N/A	1.84	N/A	529.49
Base	100	69.0	N/A	8.7	528.03	N/A	1.71	N/A	529.74
Overtopping		145.80							

**GENERAL PLAN & ELEVATION-RAMP C
 OVER UNNAMED DITCH
 F.A.I. ROUTE 55 - SEC. (99-1&2)AC-3
 WILL COUNTY
 STATION 2017+14**

DESIGNED	VP
CHECKED	CL
DRAWN	VP
CHECKED	SP

LEGEND

◆ - Soil Boring Location



LOCATION SKETCH

SINGH
 SINGH & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 300 W. ADAMS ST.
 CHICAGO, IL 60606
 TEL: (312) 629-0240
 FAX: (312) 629-8449

SHEET NO. SHEETS	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 333
	Sta. 2017+14 (Ramp C)			CONTRACT NO. 60C31	
FED. RD. DIST. NO. 1		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES:

1. All work on these sheets are to be performed in accordance with Articles 503, 540 and 543 of the Standard Specifications. See next sheet for the "Concrete End Sections" details.
2. This box culvert has an approximate fill height of 3.0-ft. The precast concrete box culvert sections shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of AASHTO M259 (ASTM C 789), except that the aggregate shall conform to the requirements of Article 1003.02 of the Standard Specifications.
3. The Contractor shall determine whether culvert can be installed in two (2) or three (3) phases (Staging shown here is suggested only) and order sections' lengths as required. Joints to be sealed in accordance with Article 540.06 of the Standard Specifications.
4. For backfilling of embankment, see Article 207 thru 209 of the Standard Specifications.
5. Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.
6. Reinforcement and Concrete Quantities are provided for information only.

TOTAL BILL OF MATERIAL

Pay Item	Unit	Total
Cast-in-Place Reinforced Concrete End Sections	Each	2
Precast Concrete Box Culvert, 6'X3'	Foot	57
Rock Excavation For Structures	Cu.Yd.	13
Removal and Disposal of Unsuitable Material for Structures	Cu.Yd.	11

BILL OF MATERIAL

Bar	No	Size	Length	Shape
b ₁	4	No. 5	8'-0"	—
b ₂	2	No. 4	11'-0"	—
b ₃	4	No. 4	14'-0"	—
b ₄	4	No. 4	16'-8"	—
b ₅	28	No. 4	5'-0"	—
b ₆	4	No. 4	6'-3"	—
d	24	No. 4	4'-3"	└
h ₁	6	No. 5	21'-0"	∩
h ₂	8	No. 5	6'-6"	—
v	4	No. 5	7'-1"	┘
v ₁	4	No. 5	7'-1"	┘
v ₂	4	No. 5	6'-9"	┘
v ₃	4	No. 5	6'-6"	┘
v ₄	4	No. 5	6'-2"	┘
v ₅	4	No. 5	5'-11"	┘
v ₆	4	No. 5	5'-8"	┘
v ₇	4	No. 5	5'-4"	┘
v ₈	28	No. 4	3'-1"	┘

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DESIGNED	VP
CHECKED	CL
DRAWN	VP
CHECKED	SP

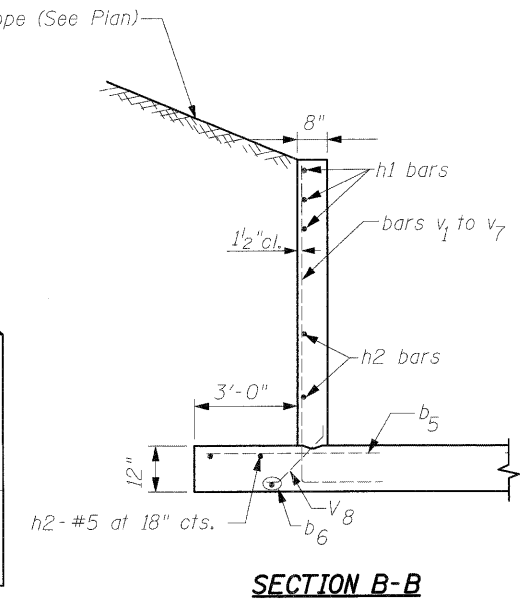
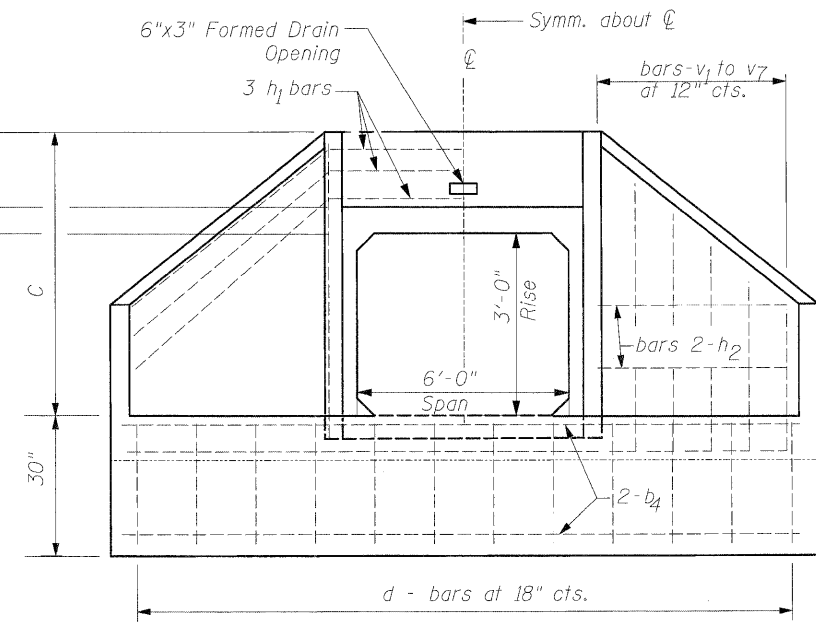
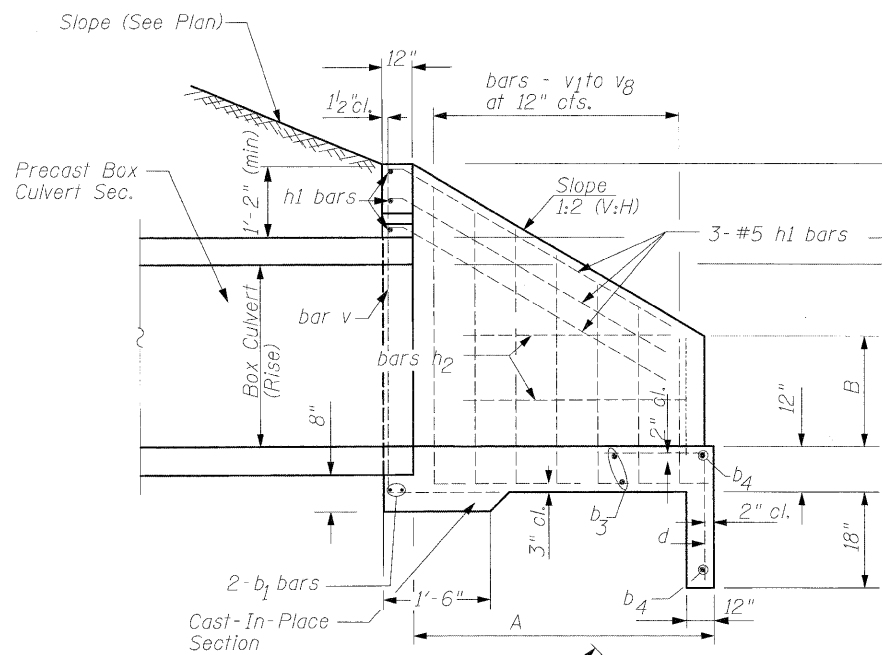
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	300 W. ADAMS ST. CHICAGO, IL 60606 TEL: (312) 629-0240 FAX: (312) 629-8449	SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		SHEETS	55	(99-1&2)AC-3	WILL	524	334
		Sta. 2017+14 (Ramp C)		CONTRACT NO. 60C31		FED. RD. DIST. NO. 1 ILLINOIS FED. AID PROJECT	

FINAL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**BARS IN ONE
END SECTION**

Box Culvert 6'x3'	
Bars	No.
d	12
b ₁	2
b ₂	1
b ₃	2
b ₄	2
b ₅	14
b ₆	2
h ₁	3
h ₂	4
v	2
v ₁	2
v ₂	2
v ₃	2
v ₄	2
v ₅	2
v ₆	2
v ₇	2
v ₈	14



SECTION B-B

SECTION A-A

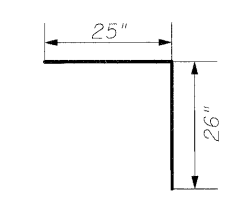
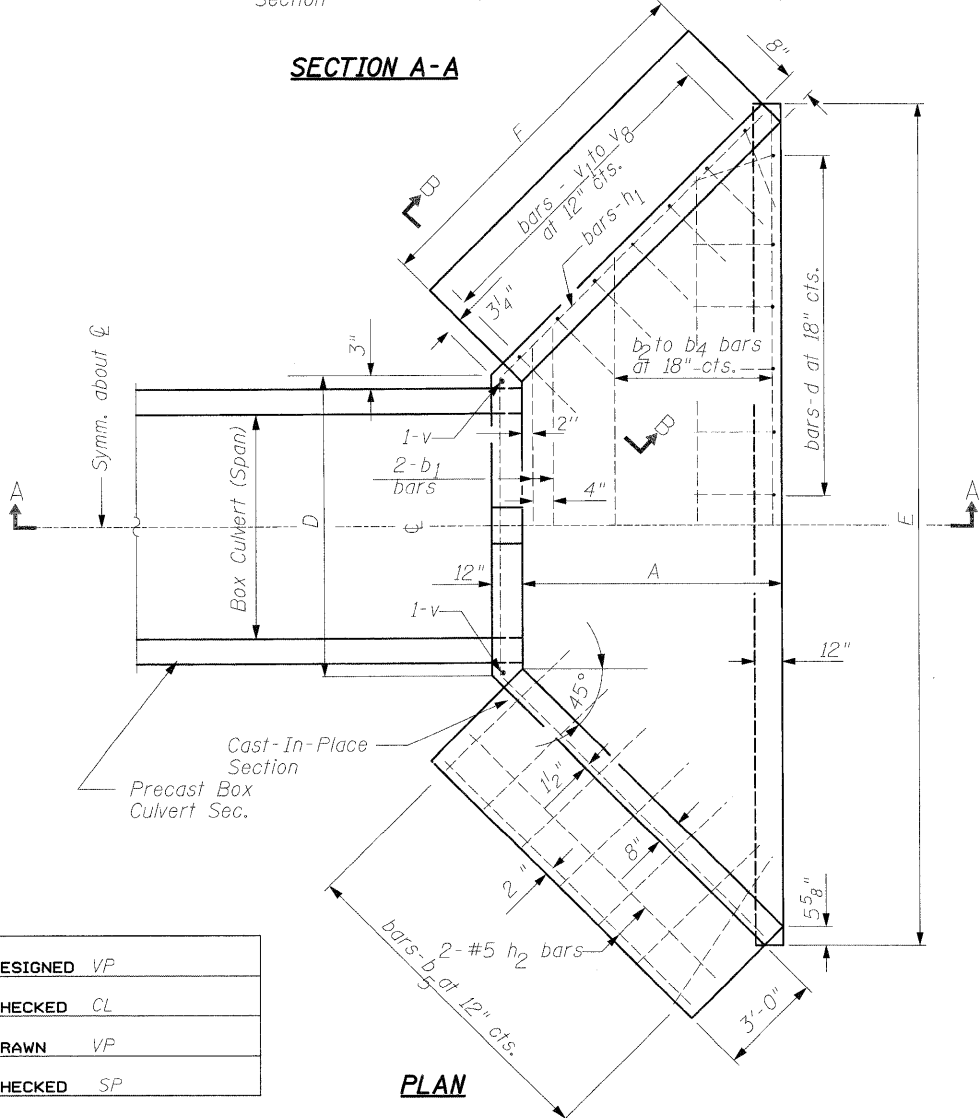
END ELEVATION

DIMENSIONS OF STRAIGHT BARS

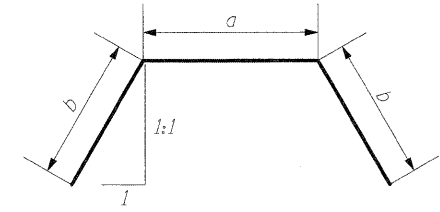
Bar	Size	Length
b ₁	No. 5	8'-0"
b ₂	No. 4	11'-0"
b ₃	No. 4	14'-0"
b ₄	No. 4	16'-8"
b ₅	No. 4	5'-0"
b ₆	No. 4	6'-3"
h ₂	No. 5	6'-6"

DIMENSIONS OF BENT BARS

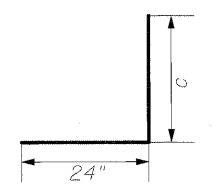
No. 5 - bars h ₁			
BARS	a	b	Total Length
h ₁	7'-8"	6'-8"	21'-0"
No. 5 - bars v to v ₇			
BARS	c	Total Length	
v	5'-1"	7'-1"	
v ₁	5'-1"	7'-1"	
v ₂	4'-9"	6'-9"	
v ₃	4'-6"	6'-6"	
v ₄	4'-2"	6'-2"	
v ₅	3'-11"	5'-11"	
v ₆	3'-8"	5'-8"	
v ₇	3'-4"	5'-4"	



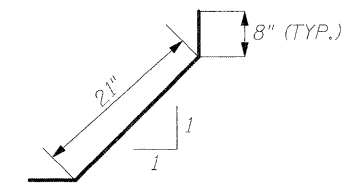
No. 4 BAR-d



BARS-h1
Bend in field



BARS - v to v₇



BARS-V₈

DIMENSIONS AND QUANTITIES

Box Culvert		Slope of Wing Walls	Dimensions						Concrete for two (2) End Sections (Cu. Yd.)	Reinf. Bars for two (2) End Sections (Lbs.)
Rise	Span		A	B	C	D	E	F		
36"	72"	1:2	4'-7"	34 1/2"	4'-9"	8'-0"	17'-2"	6'-9"	15	765

NOTE:
1. Cast-In-Place Reinforced Concrete End Sections shall be constructed of Class SI concrete as per Article 503.

DESIGNED	VP
CHECKED	CL
DRAWN	VP
CHECKED	SP

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SINGH & ASSOCIATES, INC.
CONSULTING ENGINEERS

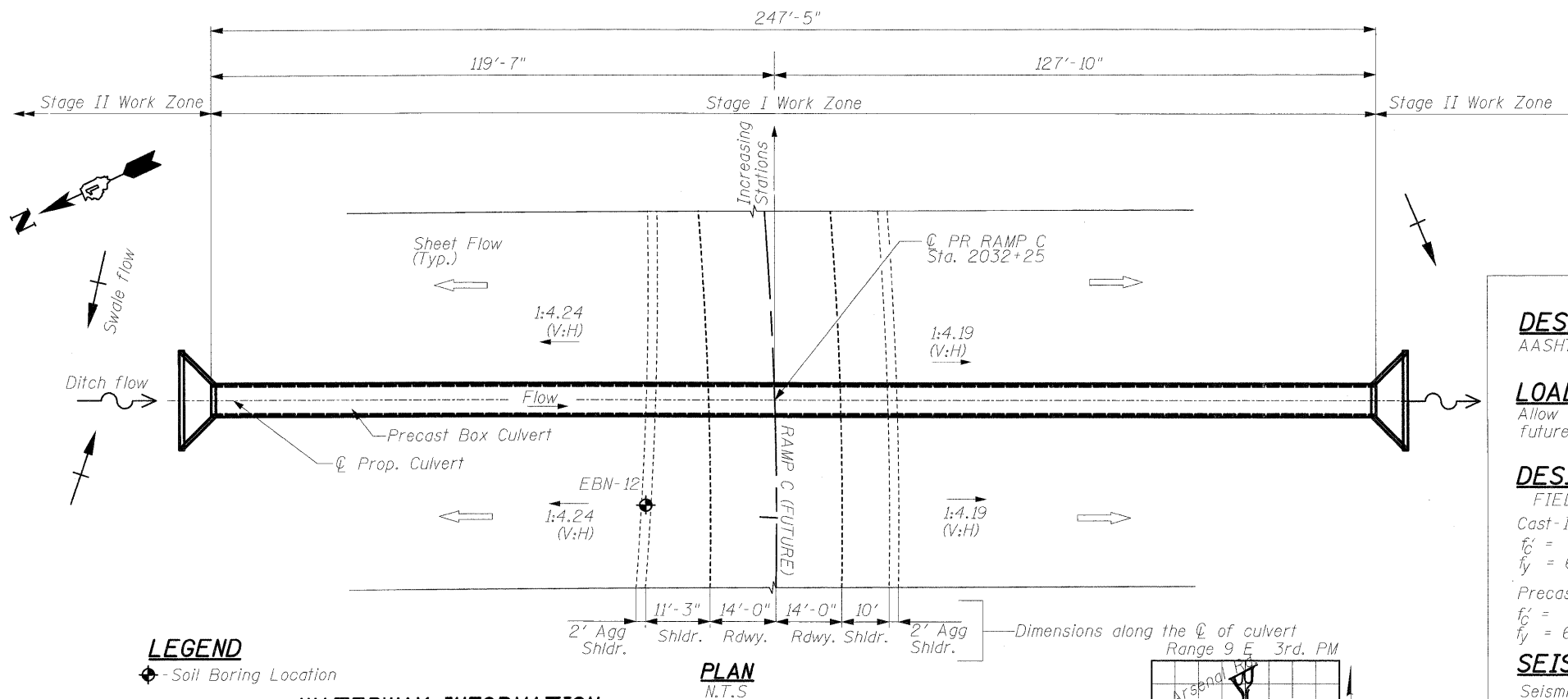
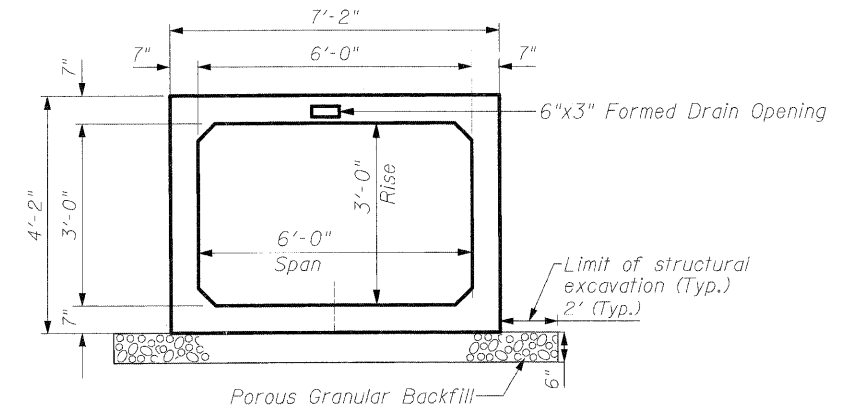
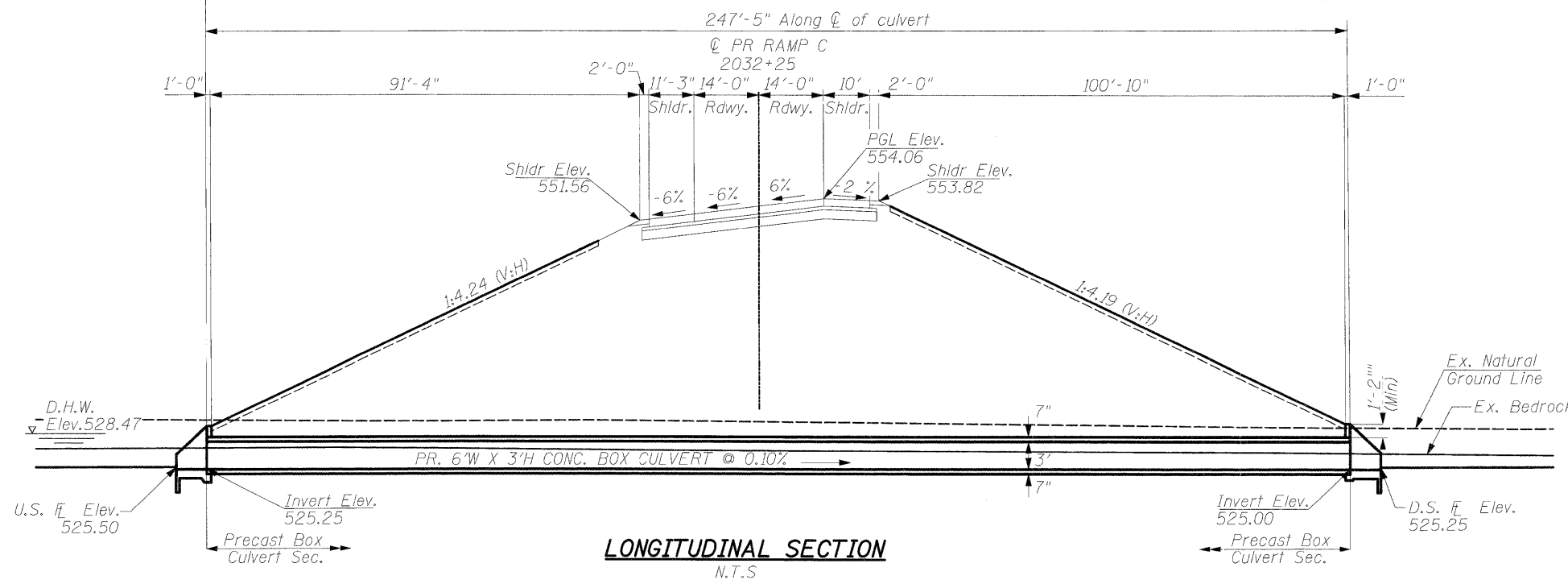
300 W. ADAMS ST.
CHICAGO, IL 60606
TEL: (312) 629-0240
FAX: (312) 629-8449

SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2)AC-3	WILL	524	335
SHEETS			CONTRACT NO. 60C31		
Sta. 2017+14 (Ramp C)			ILLINOIS FED. AID PROJECT		

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Bench Mark: BM 2
 (RR spike in 1st power pole North of CPT 203 ±1' above ground. Elev.= 529.734)
 Existing Structures: None

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION



CURVE DATA

Ramp C
 P.I. Station 2037+82.40
 Delta = 132° 56' 23" (LT)
 Degree = 6° 51' 42"
 Tangent = 1,917.61'
 Length = 1,937.40'
 Radius = 835.00'
 External = 1,256.52'
 Long Chord = 1,531.14'
 Mid. Ord. = 501.64'
 P.C. Station 2018+64.79
 P.T. Station 2038+02.19

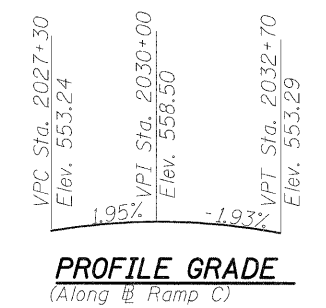
DESIGN SPECIFICATIONS
 AASHTO 2002

LOADING HS-20-44
 Allow 50 lbs/sq. ft. for future wearing surface.

DESIGN STRESSES
 FIELD UNITS
 Cast-In-Place Units
 $f'_c = 3,500$ psi (Concrete)
 $f_y = 60,000$ psi (Reinforcement)

Precast Units
 $f'_c = 5,000$ psi (Concrete)
 $f_y = 65,000$ psi (Welded Wire Fabric)

SEISMIC DATA
 Seismic Performance Zone (SPC) = A
 Bedrock Acceleration Coeff.(A) = 0.04g
 Site Coefficient (S) = 1.0



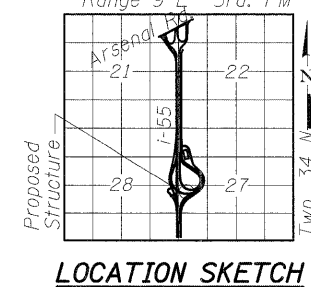
**GENERAL PLAN & ELEVATION-RAMP C
 OVER UNNAMED DITCH
 F.A.I. ROUTE 55 - SEC. (99-1&2)AC-3
 WILL COUNTY
 STATION 2032+25**

LEGEND
 ◆ - Soil Boring Location

WATERWAY INFORMATION

Drainage Area = 0.1519 sq. mi. Low Grade Elev. 552.51 @ Sta. 2032+25 Ramp C

Flood	Freq. Yr.	Q C.F.S.	Opening Sq.Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	50	80	N/A	16.1	527.57	N/A	0.90	N/A	528.47
Base	100	106	N/A	18.0	527.92	N/A	1.26	N/A	529.18
Overtopping		150							



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 300 W. ADAMS ST.
 CHICAGO, IL 60606
 TEL: (312) 629-0240
 FAX: (312) 629-8449

SHEET NO. SHEETS	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 336
	Sta. 2032+25 (Ramp C)		CONTRACT NO. 60C31		
FED. RD. DIST. NO. 1 ILLINOIS FED. AID PROJECT					

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES:

1. All work on these sheets are to be performed in accordance with Articles 503, 540 and 543 of the Standard Specifications. See next sheet for the "Concrete Headwalls" details.
2. This box culvert has an approximate fill height of 25.0-ft. The precast concrete box culvert sections shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of AASHTO M273 (ASTM C 850), except that the aggregate shall conform to the requirements of Article 1003.02 of the Standard Specifications.
3. The Contractor shall determine whether culvert can be installed in two (2) or three (3) phases (Staging shown here is suggested only) and order sections' lengths as required. Joints to be sealed in accordance with Article 540.06 of the Standard Specifications.
4. For backfilling of embankment, see Article 207 thru 209 of the Standard Specifications.
5. Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.
6. Reinforcement and Concrete Quantities are provided for information only.

TOTAL BILL OF MATERIAL

Pay Item	Unit	Total
Cast-in-Place Reinforced Concrete End Sections	Each	2
Precast Concrete Box Culvert, 6'X3'	Foot	248
Rock Excavation For Structures	Cu.Yd.	263
Removal and Disposal of Unsuitable Material for Structures	Cu.Yd.	49

BILL OF MATERIAL

Bar	No	Size	Length	Shape
b1	4	No. 5	8'-0"	—
b2	2	No. 4	11'-0"	—
b3	4	No. 4	14'-0"	—
b4	4	No. 4	16'-8"	—
b5	28	No. 4	5'-0"	—
b6	4	No. 4	6'-3"	—
d	24	No. 4	4'-3"	└┘
h1	6	No. 5	21'-0"	∧
h2	8	No. 5	6'-6"	—
v	4	No. 5	7'-1"	└┘
v1	4	No. 5	7'-1"	└┘
v2	4	No. 5	6'-9"	└┘
v3	4	No. 5	6'-6"	└┘
v4	4	No. 5	6'-2"	└┘
v5	4	No. 5	5'-11"	└┘
v6	4	No. 5	5'-8"	└┘
v7	4	No. 5	5'-4"	└┘
v8	4	No. 4	3'-1"	└┘

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DESIGNED	VP
CHECKED	CL
DRAWN	VP
CHECKED	SP

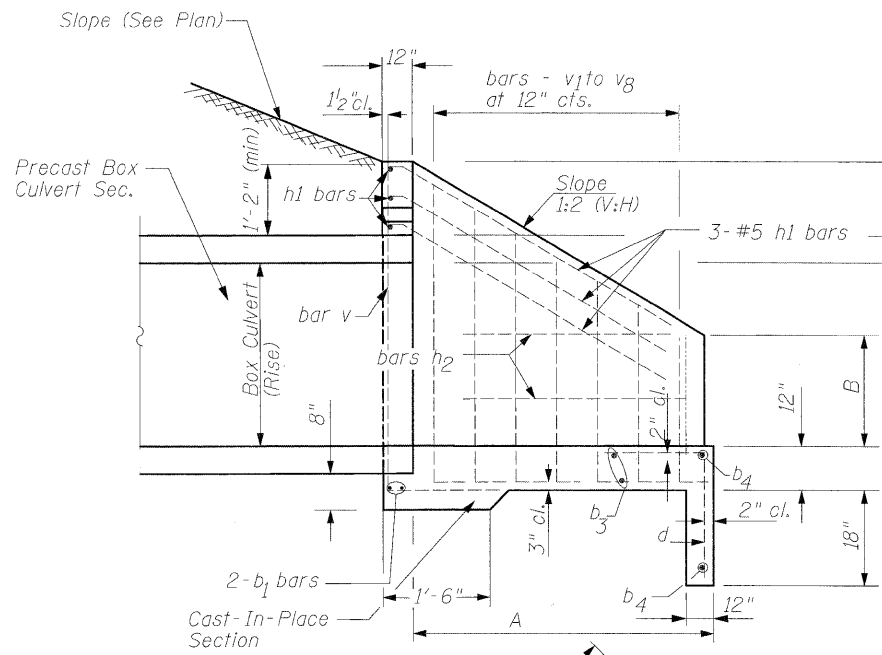
SINGH SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS	300 W. ADAMS ST. CHICAGO, IL 60606 TEL: (312) 629-0240 FAX: (312) 629-8449	SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		SHEETS	55	(99-1&2)AC-3	WILL	524	337
		Sta. 2032+25 (Ramp C)		CONTRACT NO. 60C31			
		FED. RD. DIST. NO. 1	ILLINOIS	FED. AID PROJECT			

FINAL

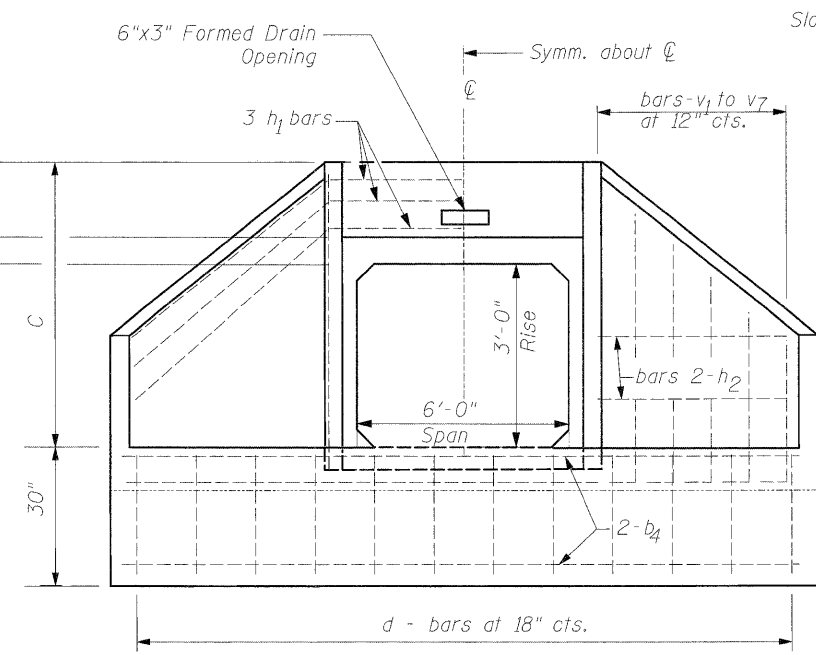
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**BARS IN ONE
END SECTION**

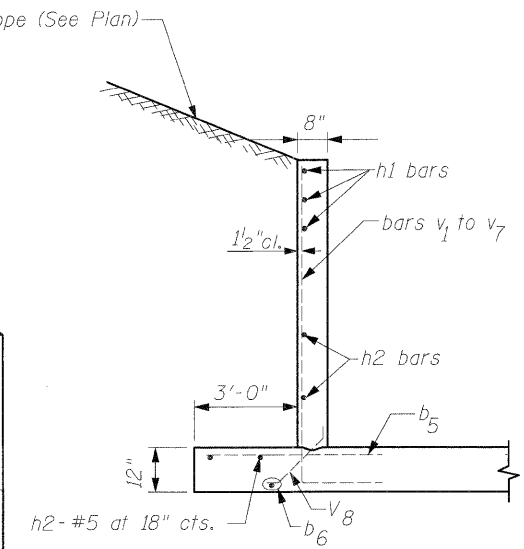
Box Culvert 6'x3'	
Bars	No.
d	12
b ₁	2
b ₂	1
b ₃	2
b ₄	2
b ₅	14
b ₆	2
h ₁	3
h ₂	4
v	2
v ₁	2
v ₂	2
v ₃	2
v ₄	2
v ₅	2
v ₆	2
v ₇	2
v ₈	14



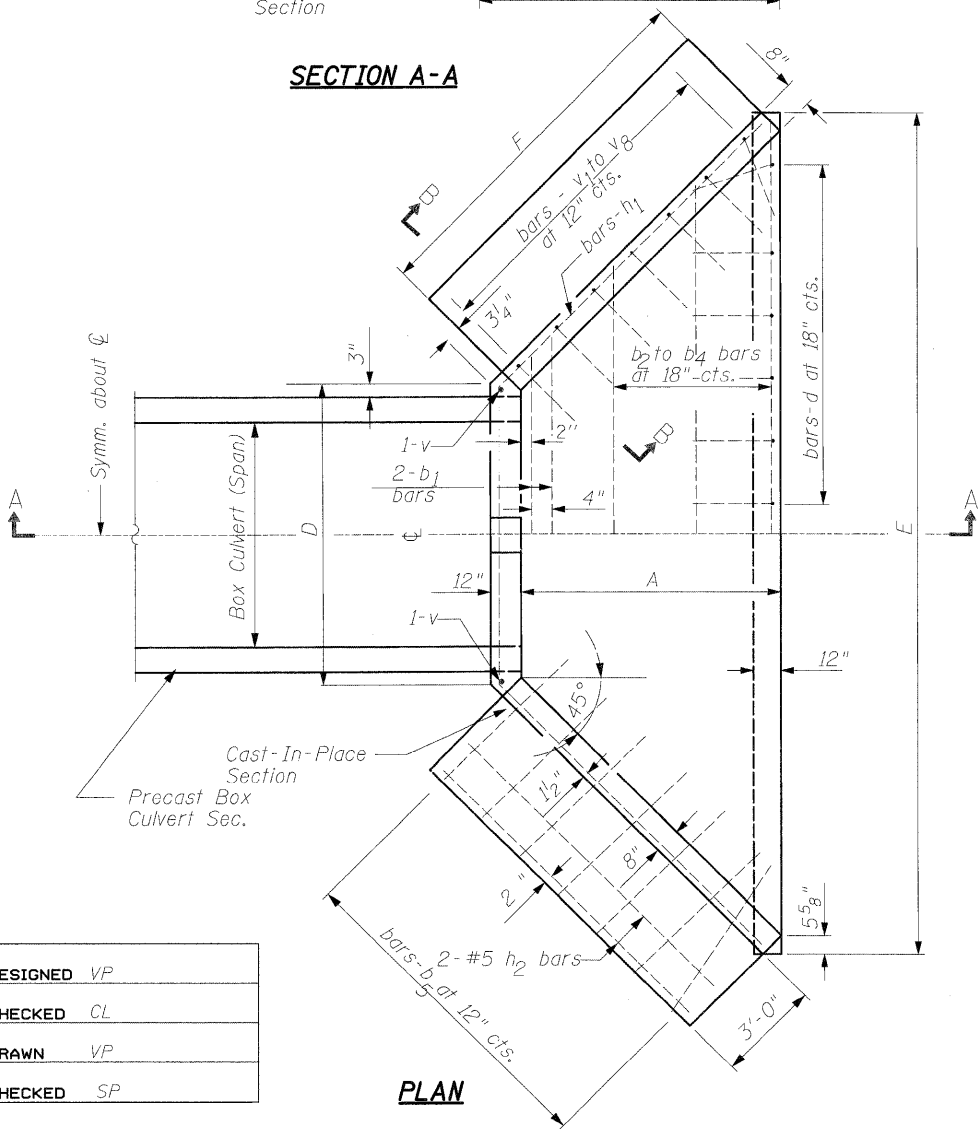
SECTION A-A



END ELEVATION



SECTION B-B



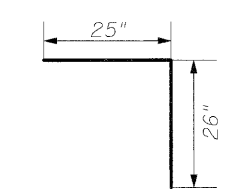
PLAN

DIMENSIONS OF STRAIGHT BARS

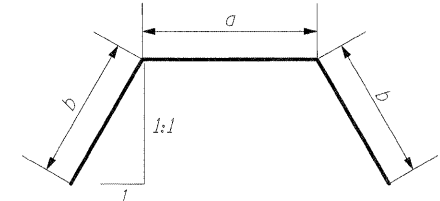
Bar	Size	Length
b ₁	No. 5	8'-0"
b ₂	No. 4	11'-0"
b ₃	No. 4	14'-0"
b ₄	No. 4	16'-8"
b ₅	No. 4	5'-0"
b ₆	No. 4	6'-3"
h ₂	No. 5	6'-6"

DIMENSIONS OF BENT BARS

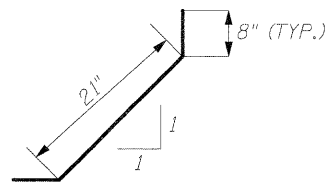
No. 5 - bars h ₁			
BARS	a	b	Total Length
h ₁	7'-8"	6'-8"	21'-0"
No. 5 - bars v to v ₇			
BARS	c	Total Length	
v	5'-1"	7'-1"	
v ₁	5'-1"	7'-1"	
v ₂	4'-9"	6'-9"	
v ₃	4'-6"	6'-6"	
v ₄	4'-2"	6'-2"	
v ₅	3'-11"	5'-11"	
v ₆	3'-8"	5'-8"	
v ₇	3'-4"	5'-4"	



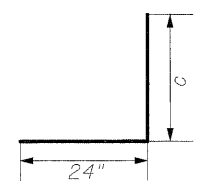
No. 4 BAR-d



BARS-h₁
Bend in field



BARS-V₈



BARS - v to v₇

DIMENSIONS AND QUANTITIES

Box Culvert		Slope of Wing Walls	Dimensions						Concrete for two (2) End Sections (Cu. Yd.)	Reinf. Bars for two (2) End Sections (Lbs.)
Rise	Span		A	B	C	D	E	F		
36"	72"	1:2	4'-7"	34 1/2"	4'-9"	8'-0"	17'-2"	6'-9"	15	765

NOTE:
1. Cast-In-Place Reinforced Concrete End Sections shall be constructed of Class SI concrete as per Article 503.

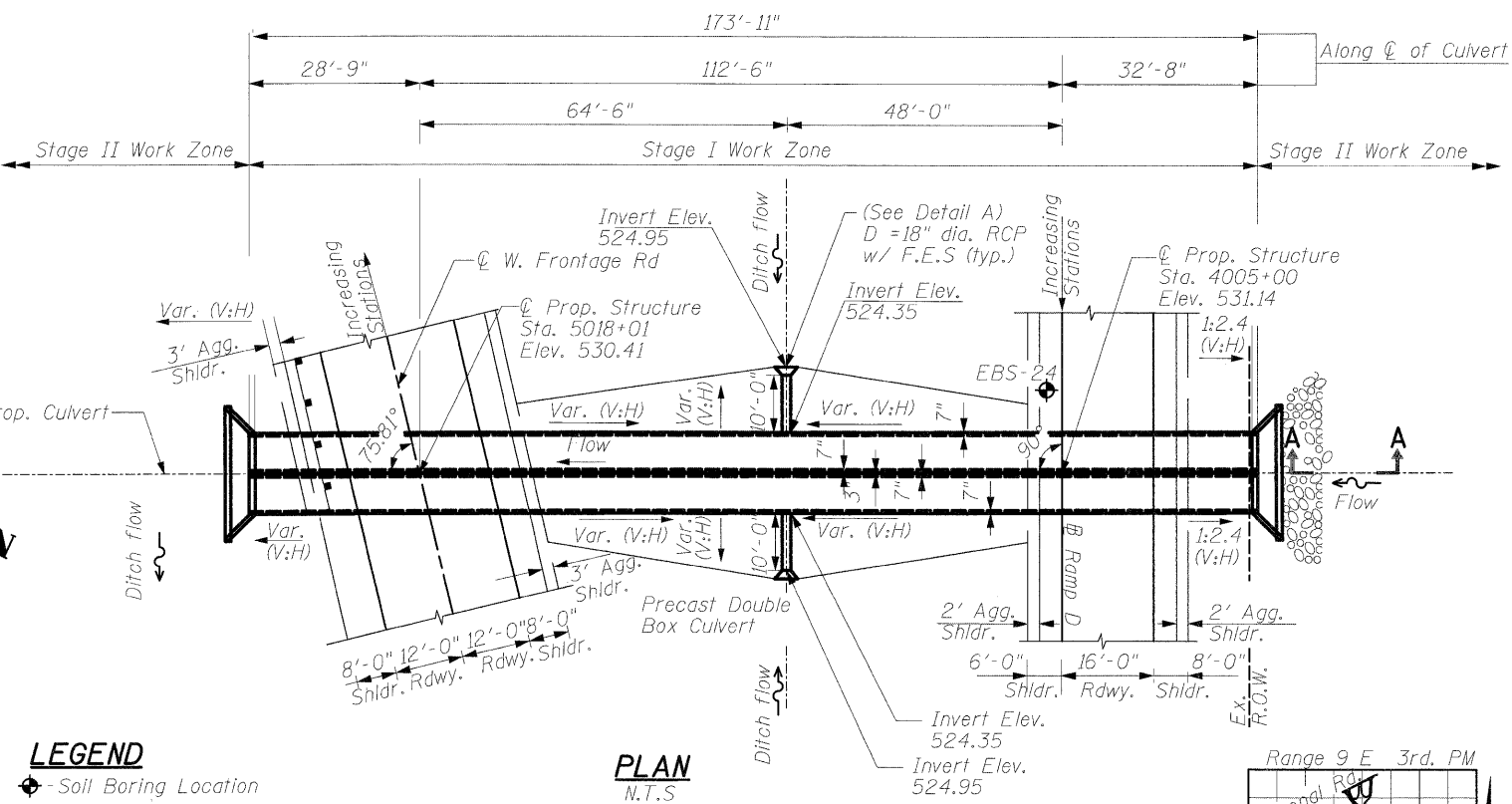
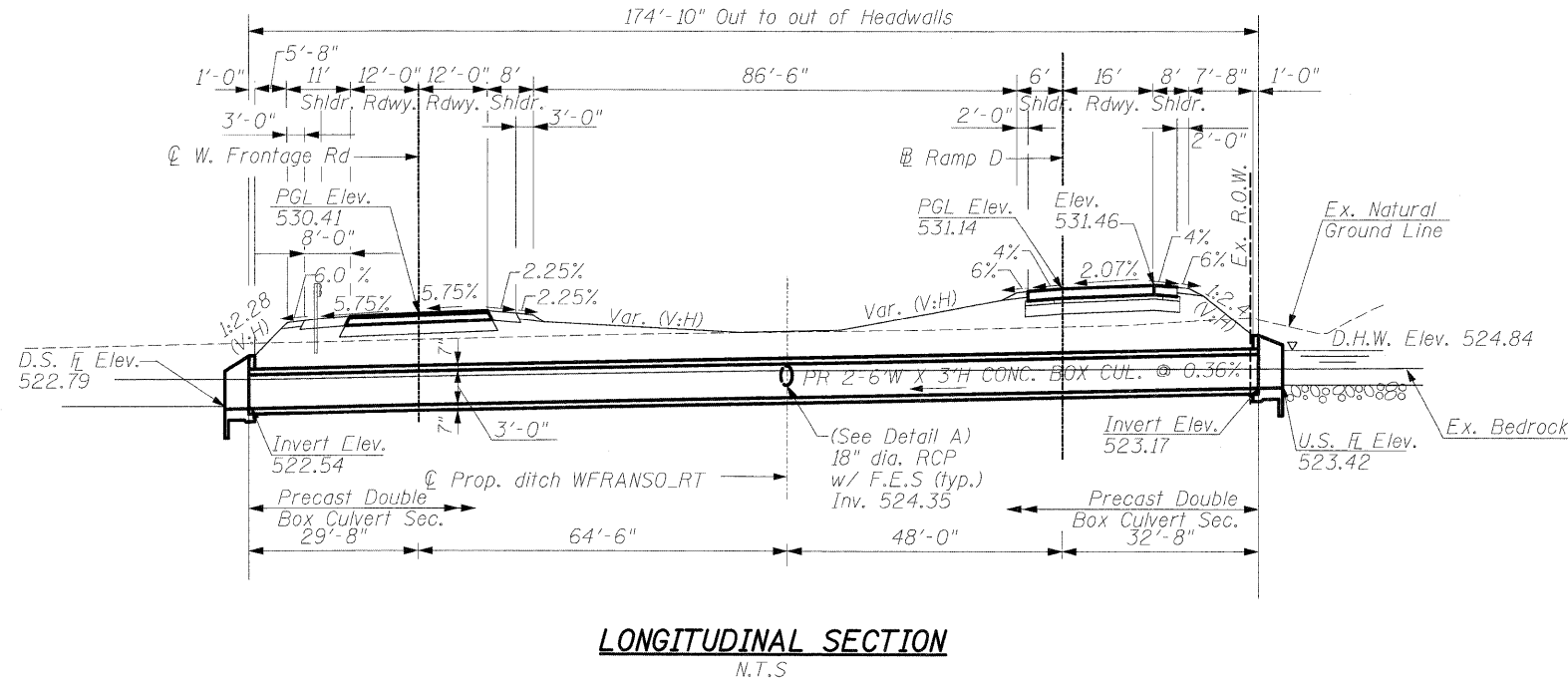
DESIGNED	VP
CHECKED	CL
DRAWN	VP
CHECKED	SP

SINGH 300 W. ADAMS ST.
CHICAGO, IL 60606
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240
CONSULTING ENGINEERS FAX: (312) 629-8449

SHEET NO. SHEETS	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 338
	Sta. 2032+25 (Ramp C)		CONTRACT NO. 60C31		
FED. RD. DIST. NO. 1 ILLINOIS FED. AID PROJECT					

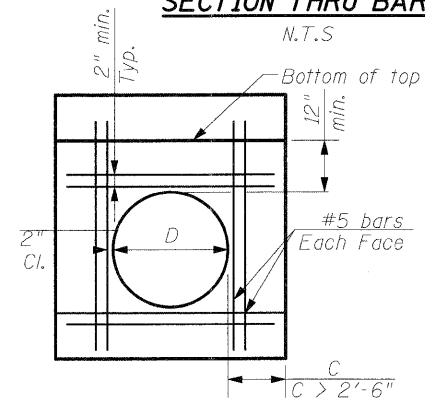
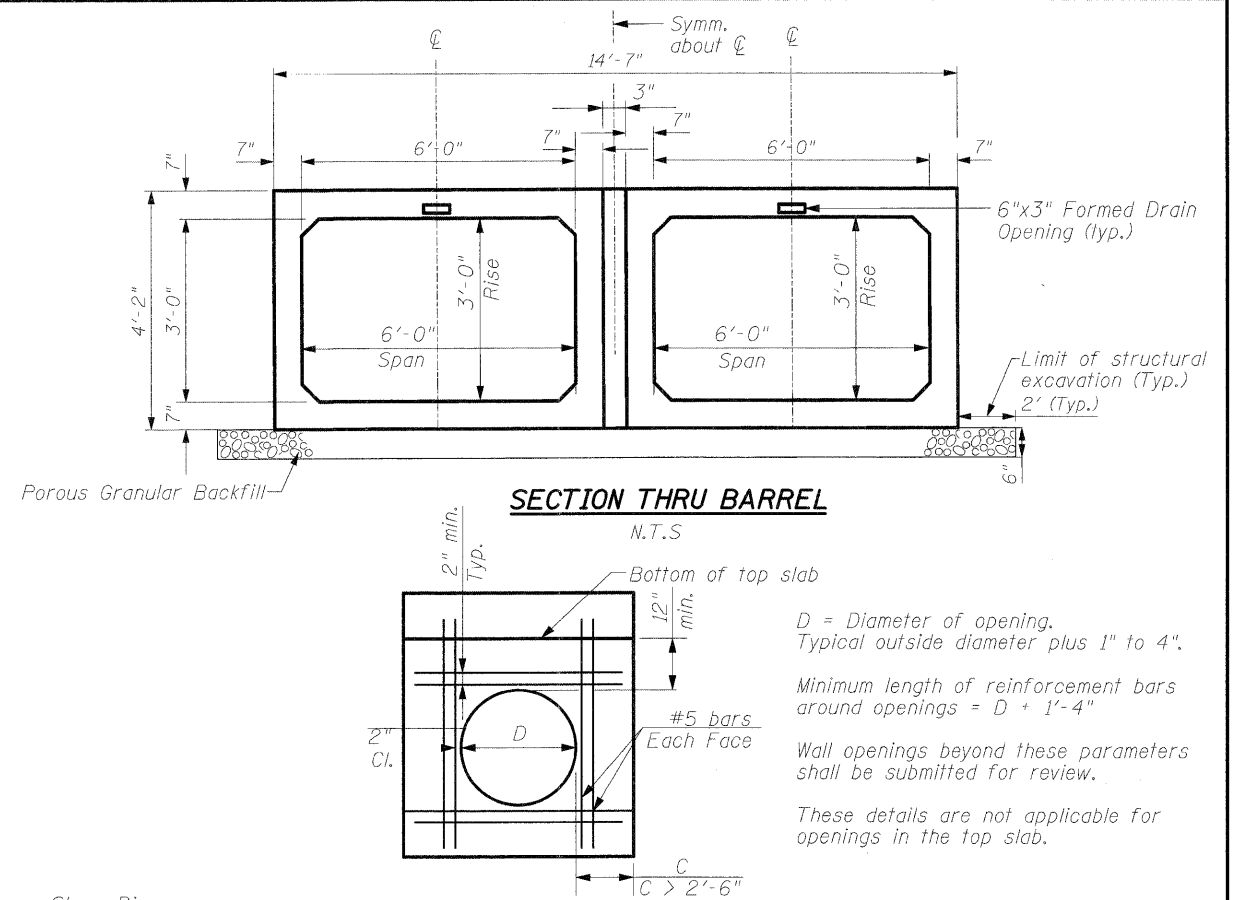
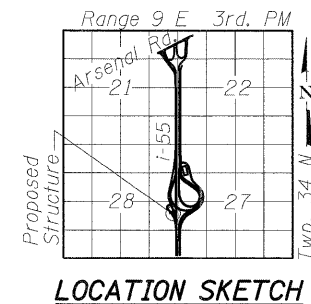
Bench Mark: BM 11
 (RR spike in 2nd power pole West of I-55 Southbound entrance ramp at N. side of Arsenal Rd., ±1' N of guardrail. Elev. = 549.615)
 Existing Structures: None

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION



WATERWAY INFORMATION

Drainage Area = 0.052 sq. mi. Low Grade Elev. 529.30 @ Sta. 5018+01 W. Frontage Rd.									
Flood	Freq. Yr.	Q C.F.S.	Opening Sq.Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	50	42	N/A	8.64	524.65	N/A	0.19	N/A	524.84
Base	100	51	N/A	9.85	524.87	N/A	0.20	N/A	525.07
Overtopping		229.5							



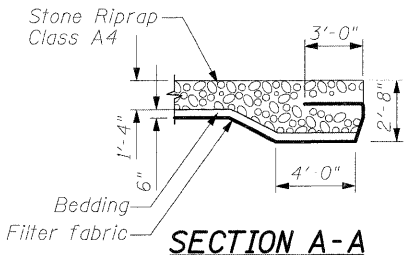
DETAIL A: ADDITIONAL WALL REINFOR. FOR PRECAST CONC. BOX CULV. WITH OPENING

CURVE DATA

W. Frontage Rd.
 P.I. Station 5015+80.03
 Delta = 42° 50' 05.43" (LT)
 Degree = 5° 12' 31.35"
 Tangent = 431.4712'
 Length = 822.3699'
 Radius = 1,100.00'
 External = 81.5953'
 Long Chord = 803.3517'
 Mid. Ord. = 75.9607'
 P.C. Station 5011+48.56
 P.T. Station 5019+70.93

CURVE DATA

Ramp D
 P.I. Station 4008+27.72
 Delta = 18° 36' 40.15" (RT)
 Degree = 6° 51' 42.37"
 Tangent = 136.8199'
 Length = 271.2296'
 Radius = 835.00'
 External = 11.1352'
 Long Chord = 270.0388'
 Mid. Ord. = 10.9886'
 P.C. Station 4006+90.90
 P.T. Station 4009+62.13



DESIGN SPECIFICATIONS
 AASHTO 2002

LOADING HS-20-44
 Allow 50 lbs/sq. ft. for future wearing surface.

DESIGN STRESSES
 FIELD UNITS

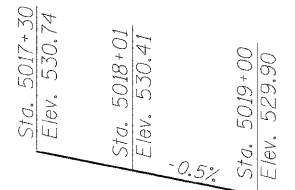
Cast-In-Place Units
 $f'_c = 3,500$ psi (Concrete)
 $f_y = 60,000$ psi (Reinforcement)

Precast Units
 $f'_c = 5,000$ psi (Concrete)
 $f_y = 65,000$ psi (Welded Wire Fabric)

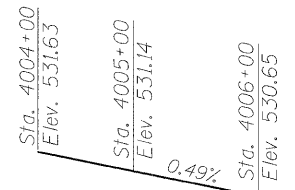
SEISMIC DATA

Seismic Performance Zone (SPC) = A
 Bedrock Acceleration Coeff.(A) = 0.04g
 Site Coefficient (S) = 1.0

PROFILE GRADE
 (Along W. Frontage Rd.)



PROFILE GRADE
 (Along Ramp D)



GENERAL PLAN & ELEVATION-RAMP D OVER UNNAMED DITCH
F.A.I. ROUTE 55 - SEC. (99-1&2)AC-3
WILL COUNTY
STATION 4005+00
STRUCTURE NO. 099-0524

DESIGNED	VP
CHECKED	CL
DRAWN	VP
CHECKED	SP

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 CONSULTING ENGINEERS
 300 W. ADAMS ST.
 CHICAGO, IL 60606
 TEL: (312) 629-0240
 FAX: (312) 629-8449

SHEET NO.
 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	339
Sta. 4005+00 (Ramp D)		CONTRACT NO. 60C31		
FED. RD. DIST. NO. 1 ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES:

1. All work on these sheets are to be performed in accordance with Articles 503, 540 and 543 of the Standard Specifications. See next sheet for the "Concrete Headwalls" details.
2. This box culvert has an approximate fill height of 4.0-ft. The precast concrete box culvert sections shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of AASHTO M259 (ASTM C 789), except that the aggregate shall conform to the requirements of Article 1003.02 of the Standard Specifications.
3. The Contractor shall determine whether culvert can be installed in two (2) or three (3) phases (Staging shown here is suggested only) and order sections' lengths as required. Joints to be sealed in accordance with Article 540.06 of the Standard Specifications.
4. For backfilling of embankment, see Article 207 thru 209 of the Standard Specifications.
5. 3-inch void between individual precast box culverts is to be filled with Class SI concrete in accordance with Article 540.06 of the Standard Specifications, no additional payment will be made for the Class SI concrete. The cost of the Class SI concrete is included with the unit price bid for "Precast Concrete Box Culvert 6-ft by 3-ft" size as indicated.
6. Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.
7. Reinforcement and Concrete Quantities are provided for information only.

TOTAL BILL OF MATERIAL

Pay Item	Unit	Total
Cast-in-Place Reinforced Concrete End Sections	Each	2
Precast Concrete Box Culvert, 6'X3'	Foot	350
Rock Excavation For Structures	Cu.Yd.	292
Removal and Disposal of Unsuitable Material for Structures	Cu.Yd.	73

BILL OF MATERIAL

Bar	No	Size	Length	Shape
b ₁	4	No. 5	14'-9"	—
b ₂	2	No. 4	17'-9"	—
b ₃	4	No. 4	20'-9"	—
b ₄	4	No. 4	23'-9"	—
b ₅	28	No. 4	5'-0"	—
b ₆	4	No. 4	6'-3"	—
d	34	No. 4	4'-3"	└┘
h ₁	6	No. 5	27'-9"	∩
h ₂	8	No. 4	6'-6"	—
v	8	No. 5	7'-1"	└┘
v ₁	4	No. 5	7'-1"	└┘
v ₂	4	No. 5	6'-9"	└┘
v ₃	4	No. 5	6'-6"	└┘
v ₄	4	No. 5	6'-2"	└┘
v ₅	4	No. 5	5'-11"	└┘
v ₆	4	No. 5	5'-8"	└┘
v ₇	4	No. 5	5'-4"	└┘
v ₈	28	No. 4	3'-1"	└┘

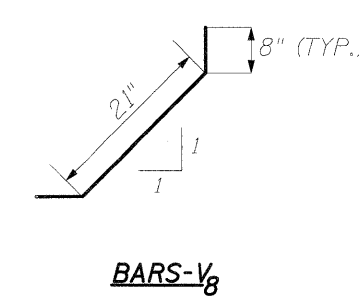
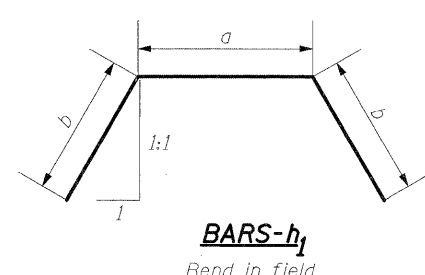
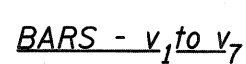
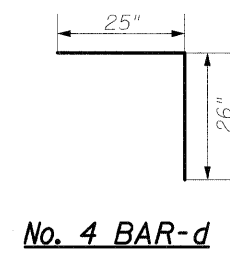
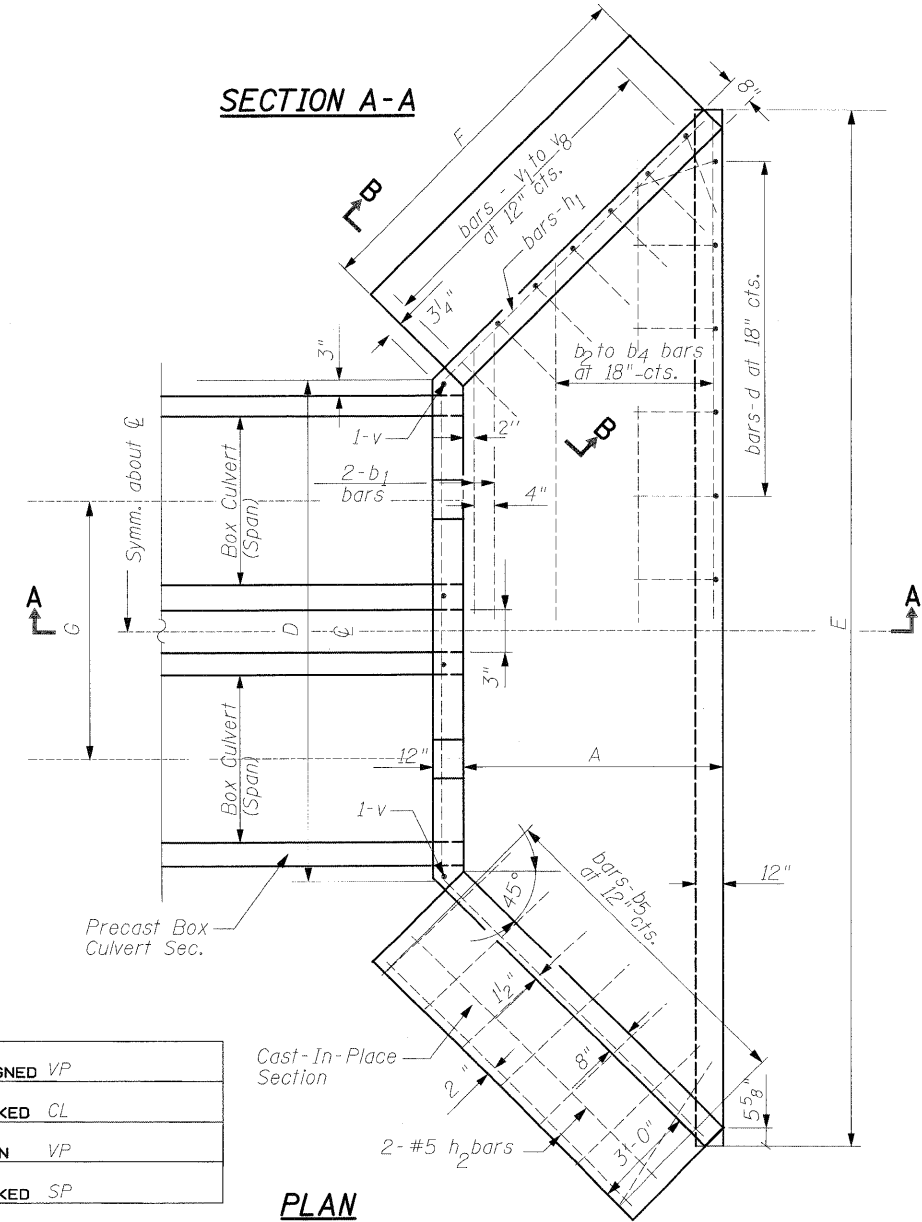
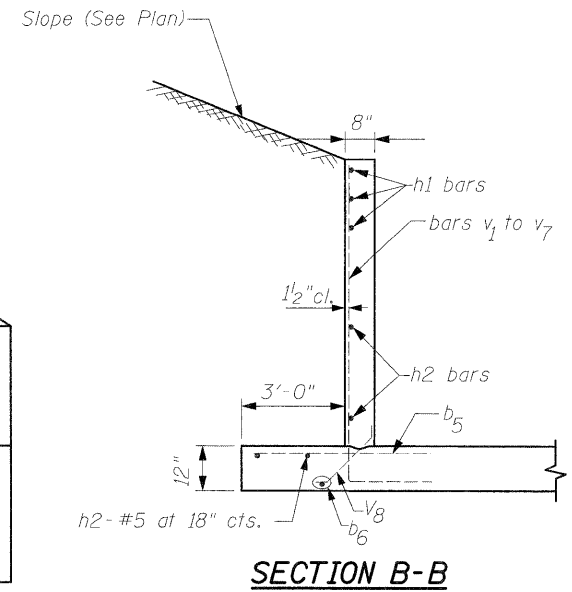
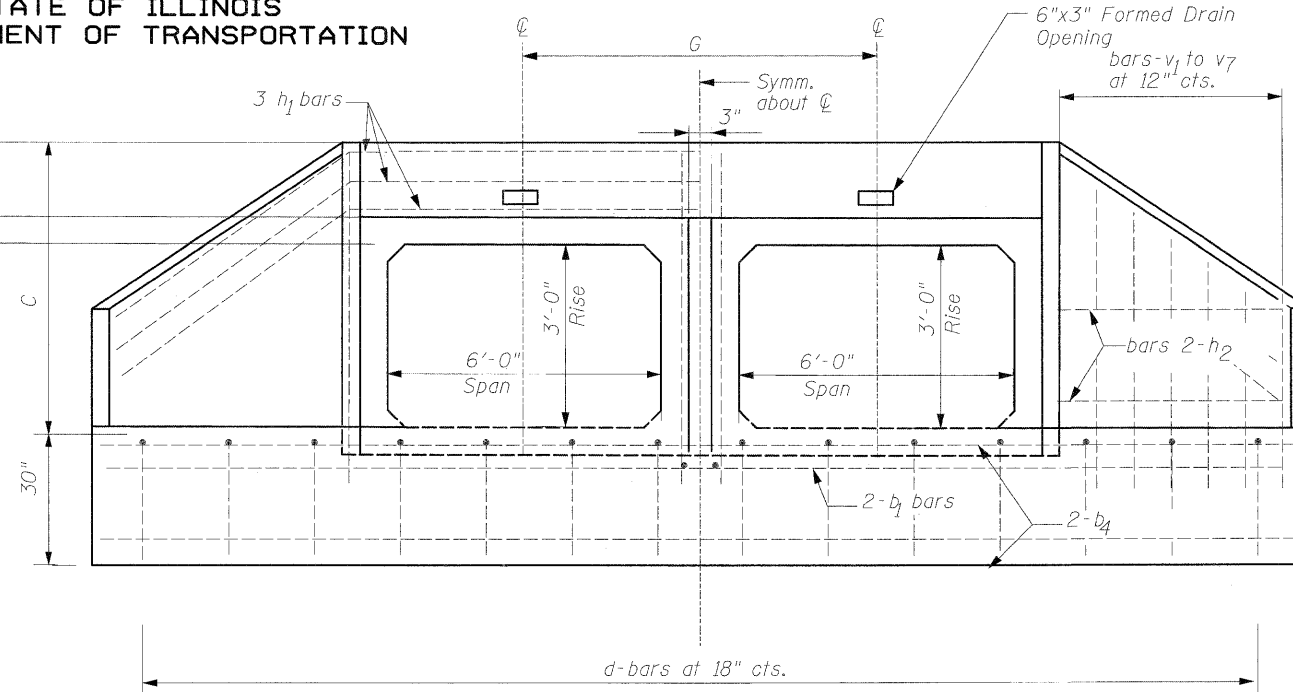
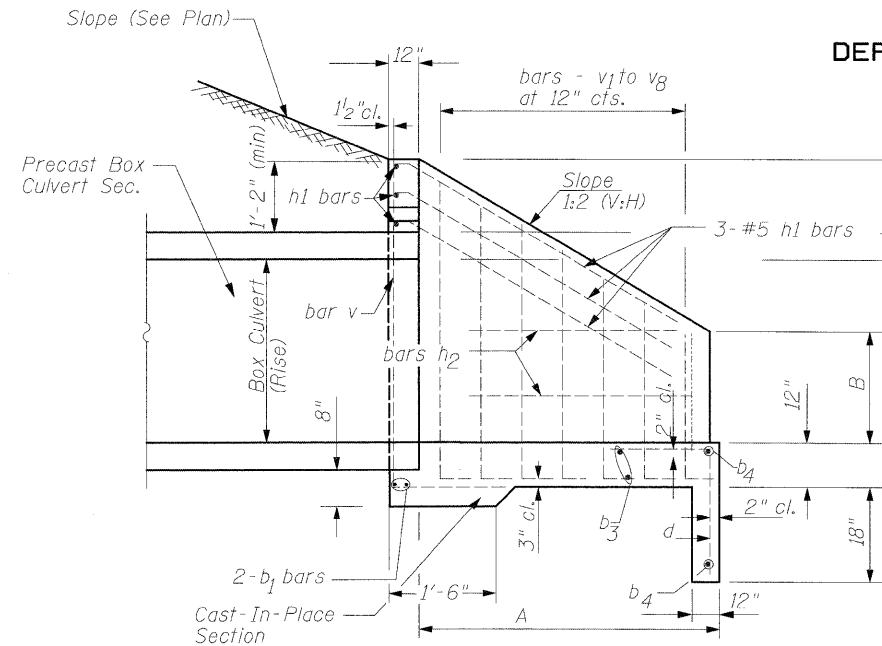
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DESIGNED	VP
CHECKED	CL
DRAWN	VP
CHECKED	SP

SINGH <small>SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS</small>	<small>300 W. ADAMS ST. CHICAGO, IL 60606 TEL: (312) 629-0240 FAX: (312) 629-8449</small>	SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		SHEETS	55	(99-1&2)AC-3	WILL	524	340
		Sta. 4005+00 (Ramp D)		CONTRACT NO. 60C31		FED. RD. DIST. NO. 1 ILLINOIS FED. AID PROJECT	

FINAL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



BARS IN ONE END SECTION

Box Culvert 6'x3'	Bars	No.
	d	17
	b1	2
	b2	1
	b3	2
	b4	2
	b5	14
	b6	2
	h1	3
	h2	4
	v	4
	v1	2
	v2	2
	v3	2
	v4	2
	v5	2
	v6	2
	v7	2
	v8	14

DIMENSIONS OF STRAIGHT BARS

Bar	Size	Length
b1	No. 5	14'-11"
b2	No. 4	17'-11"
b3	No. 4	20'-11"
b4	No. 4	23'-11"
b5	No. 4	5'-11"
b6	No. 4	6'-3"
h2	No. 5	6'-11"

DIMENSIONS OF BENT BARS

No. 5 - bars h1			
BARS	a	b	Total Length
h1	14'-7"	6'-8"	27'-11"

No. 5 - bars v to v7		
BARS	c	Total Length
v	5'-1"	7'-1"
v1	5'-1"	7'-1"
v2	4'-9"	6'-9"
v3	4'-6"	6'-6"
v4	4'-2"	6'-2"
v5	3'-11"	5'-11"
v6	3'-8"	5'-8"
v7	3'-4"	5'-4"

DIMENSIONS AND QUANTITIES

Box Culvert	Slope of Wing Walls	Dimensions							Concrete for two (2) End Sections (Cu. Yd.)	Reinf. Bars for two (2) End Sections (Lbs.)	
		Rise	Span	A	B	C	D	E			F
36"	72"	1:2	4'-7"	34 1/2"	4'-9"	14'-9"	23'-11"	6'-9"	7'-3"	40	925

NOTE:
1. Cast-In-Place Reinforced Concrete End Sections shall be constructed of Class SI as per Article 503.

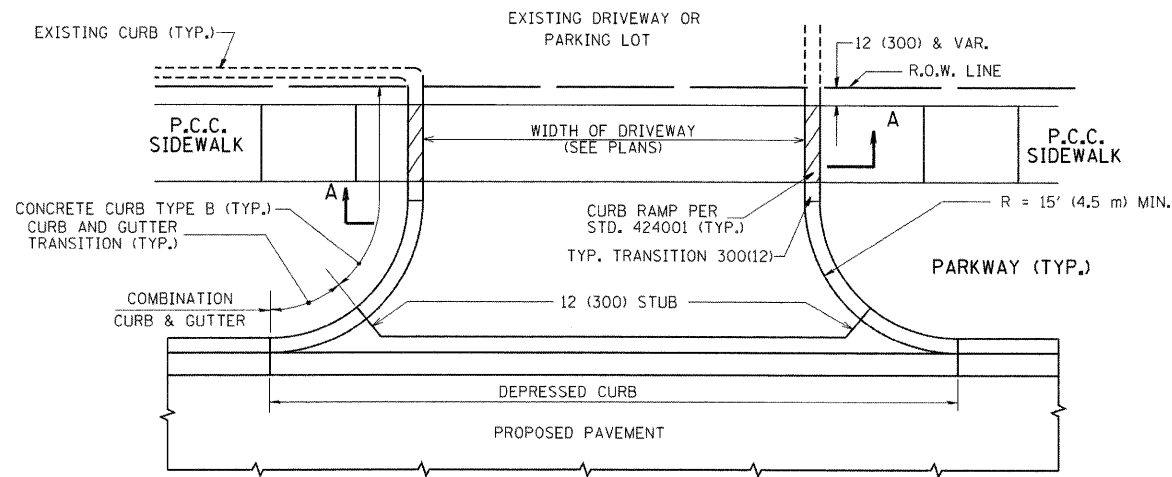
SINGH
SINGH & ASSOCIATES, INC.
CONSULTING ENGINEERS

300 W. ADAMS ST.
CHICAGO, IL 60606
TEL: (312) 629-0240
FAX: (312) 629-8449

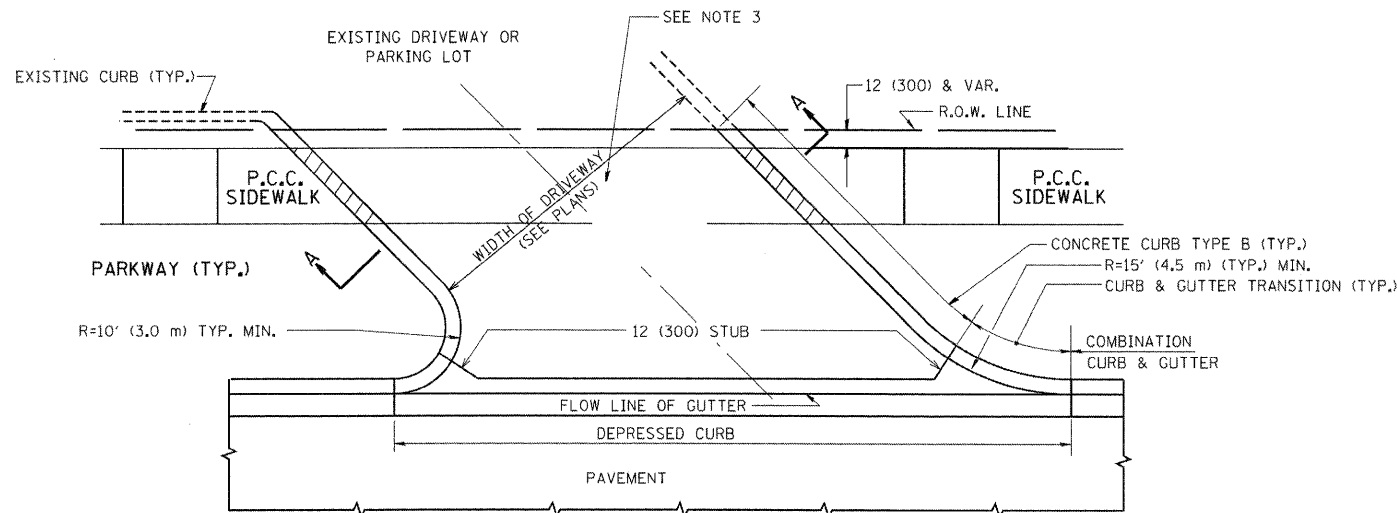
SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Sta. 4005+00 (Ramp D)		CONTRACT NO. 60C31		
FED. RD. DIST. NO. 1		ILLINOIS FED. AID PROJECT		

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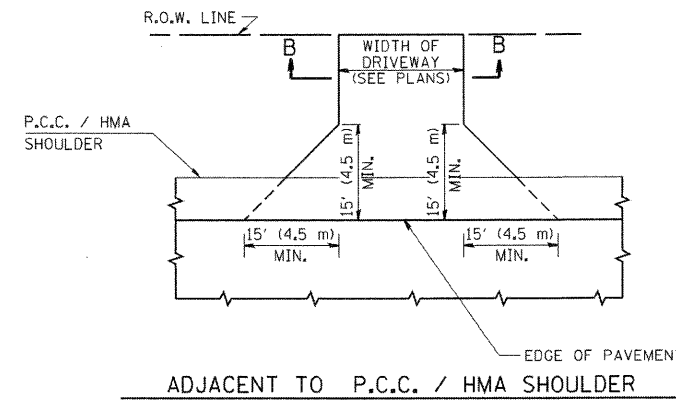
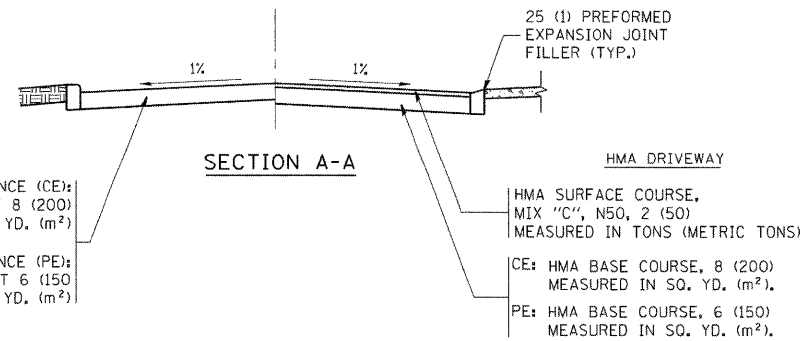
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DRAWN	VP
CHECKED	SP



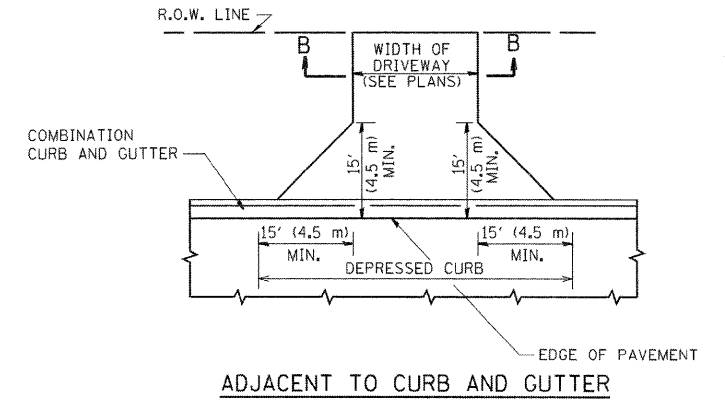
WITH CONCRETE CURB, TYPE B



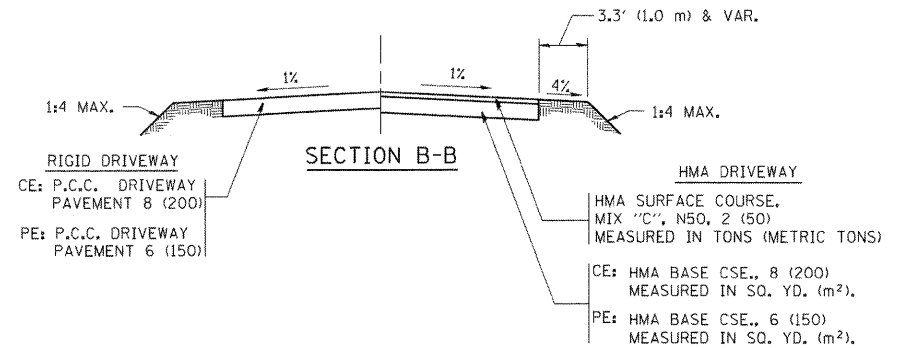
WITH CONCRETE CURB, TYPE B



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE, MIX "C", N50, 2 (50) MEASURED IN TONS (METRIC TONS)
 CE: HMA BASE CSE., 8 (200) MEASURED IN SQ. YD. (m²),
 PE: HMA BASE CSE., 6 (150) MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

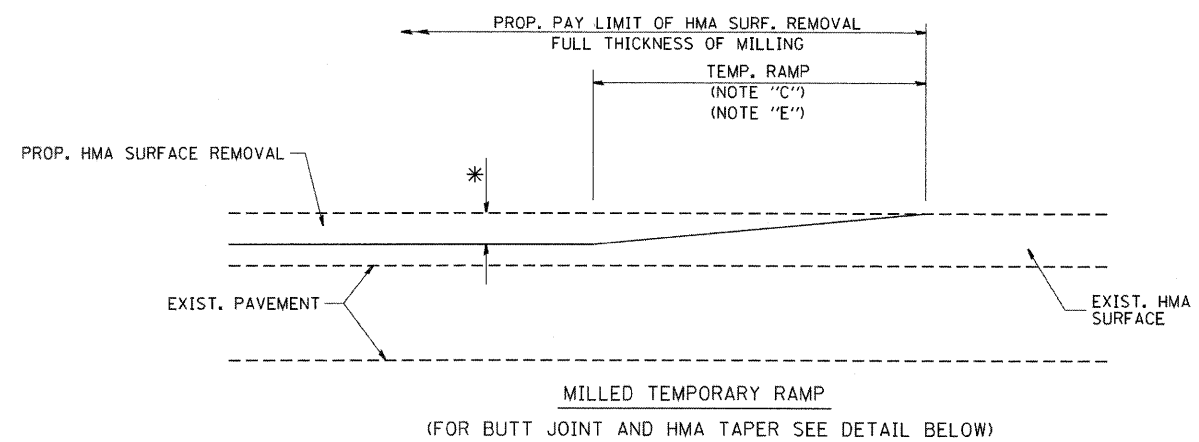
THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

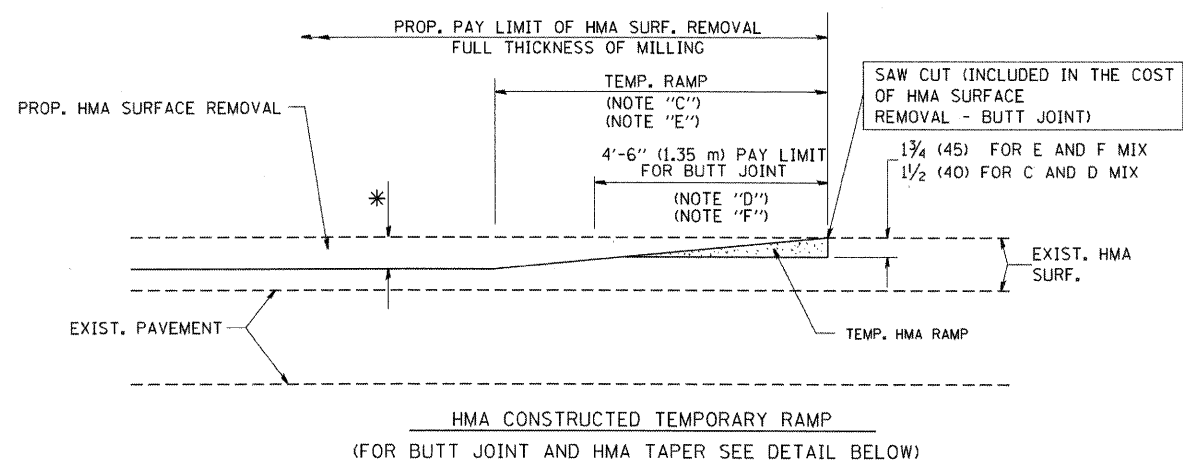
1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

FILE NAME = c:\projects\dststd22x34\bd01.dgn	USER NAME = beaurd1	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 49.9999' / IN.	DRAWN -	REVISED - P. LofLUER 04-15-03		55	(99-1&2)AC-3	WILL	524	342		
	PLOT DATE = 6/12/2008	CHECKED -	REVISED - R. BORO 01-01-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		BD0156-07 (BD-01)		CONTRACT NO. 60C31		
		DATE - 11-04-95	REVISED - R. BORO 06-11-08		FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT						

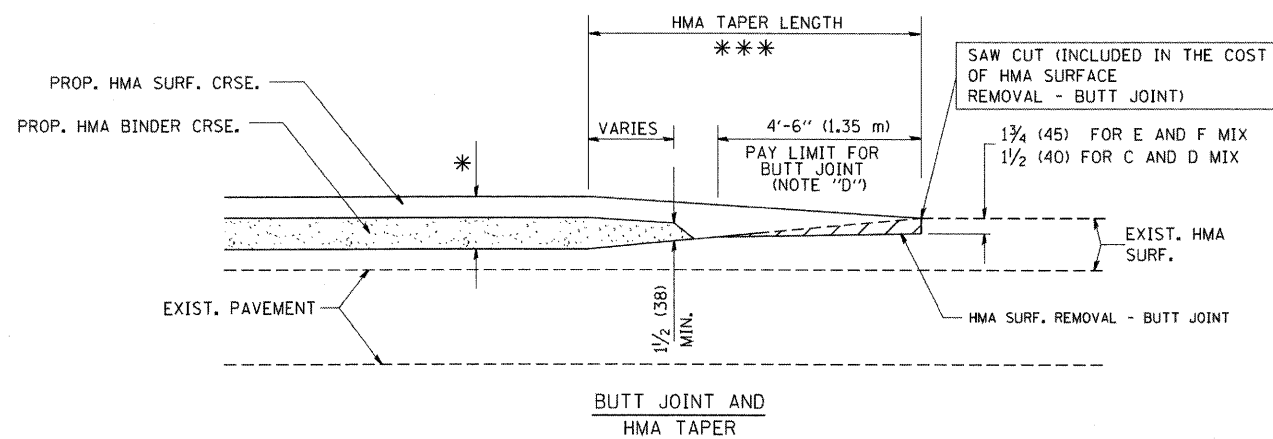


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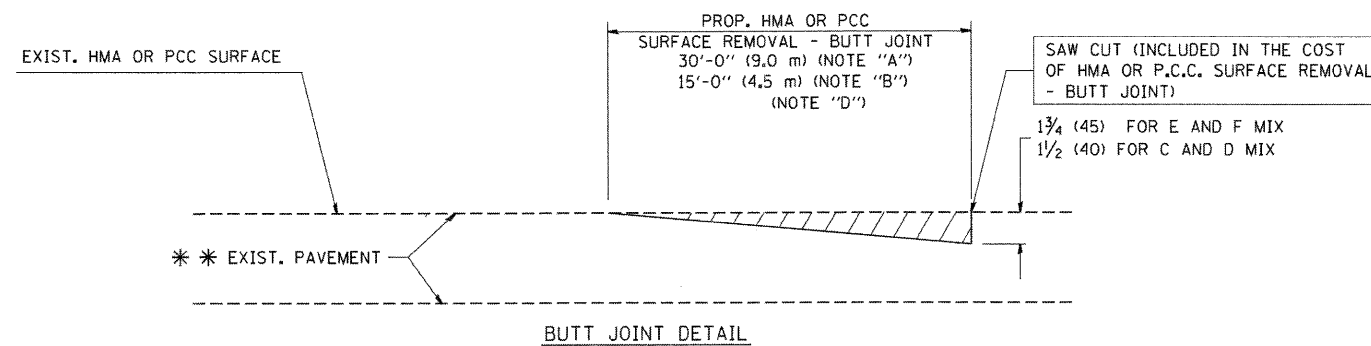


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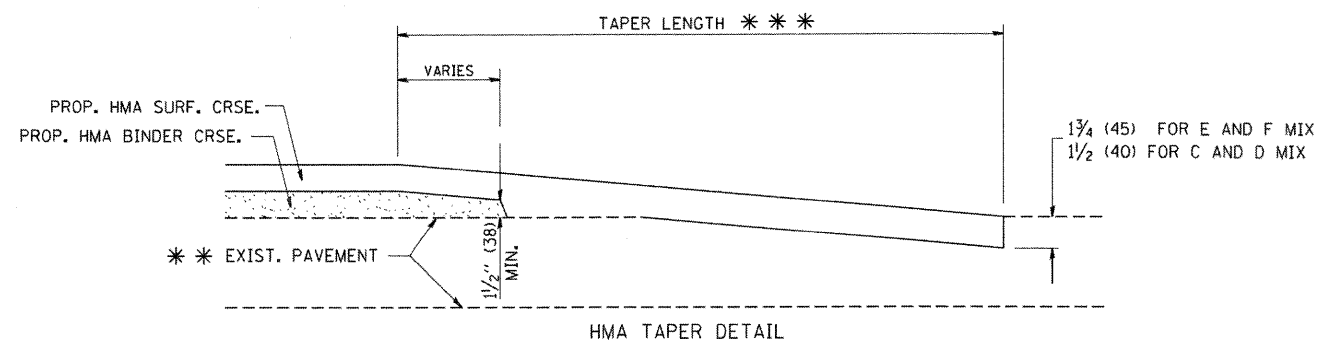
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

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

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

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PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - A. ABBAS 03-21-97
PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - M. GOMEZ 04-06-01
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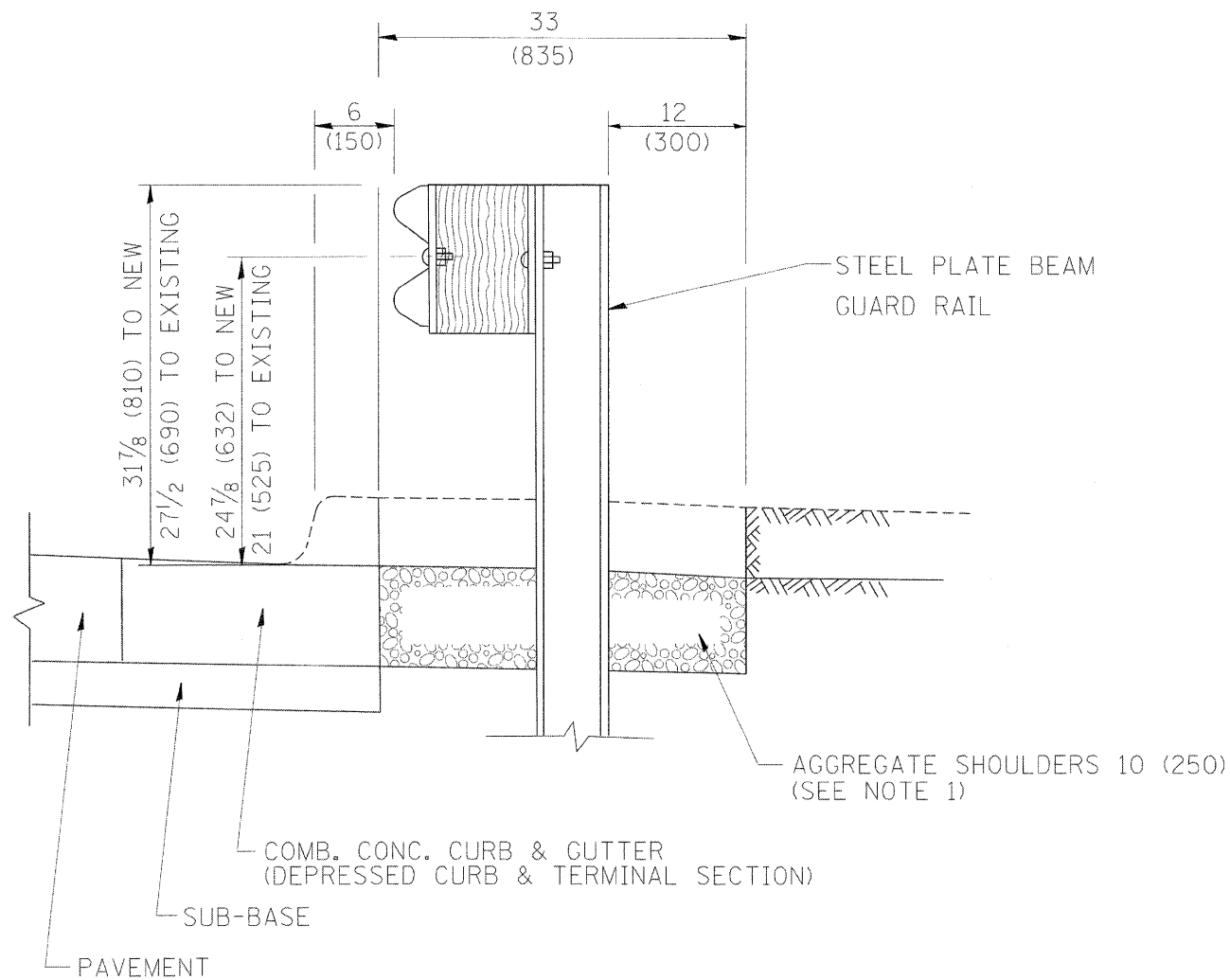
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

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

F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 343
BD400-05 BD32			CONTRACT NO. 60C31	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

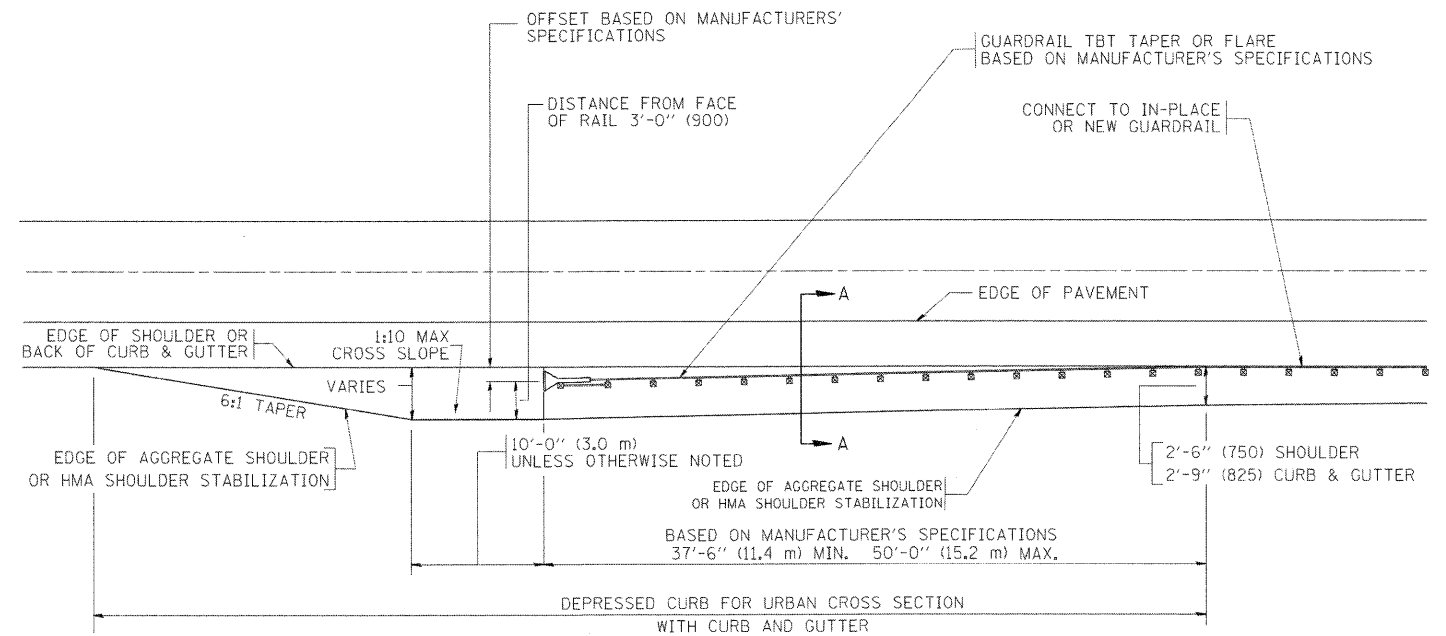
FINAL



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10" OR HMA SHOULDER, 6" (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
 3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

DETAILS FOR STEEL PLATE BEAM
 GUARD RAIL ADJACENT TO CURB AND GUTTER
 [FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]



DEPRESSED CURB AND GUTTER AND
 SHOULDER TREATMENT AT TBT TY. 1 SPL.

BASIS OF PAYMENT: HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDERS 6" (150 mm)".

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL
 ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = drivakoagn	DESIGNED - M. DE YONG	REVISED - E. GOMEZ 08-28-00
cr:\pwork\p\1001\DRIVAKOAGN\20108315\34.dgn		DRAWN -	REVISED - R. BORO 01-01-07
		CHECKED -	REVISED - R. BORO 12-08-2008
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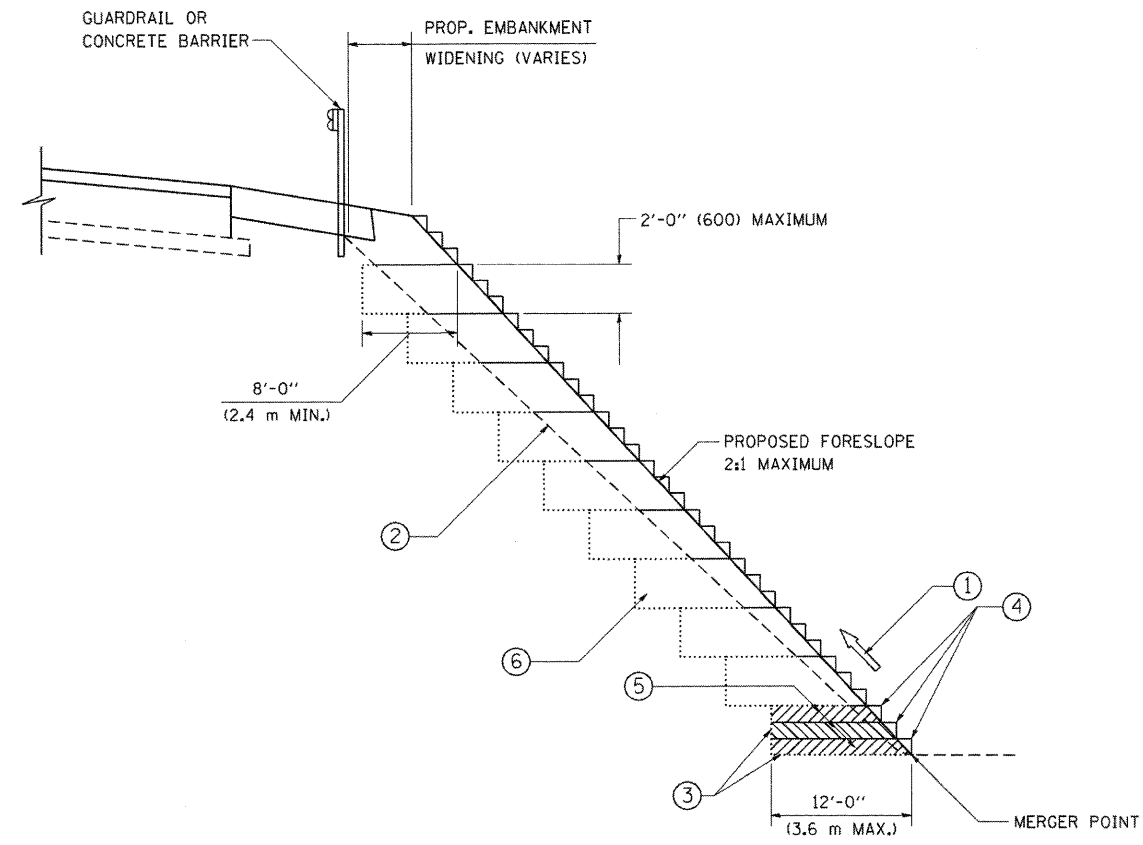
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DETAILS FOR DEPRESSED CURB & GUTTER AND
 SHOULDER TREATMENT AT TBT TY 1 SPL.

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	344
BD600-10 (BD 34)			CONTRACT NO. 60C31	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL



TYPICAL BENCHING DETAIL
FOR EMBANKMENT

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

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

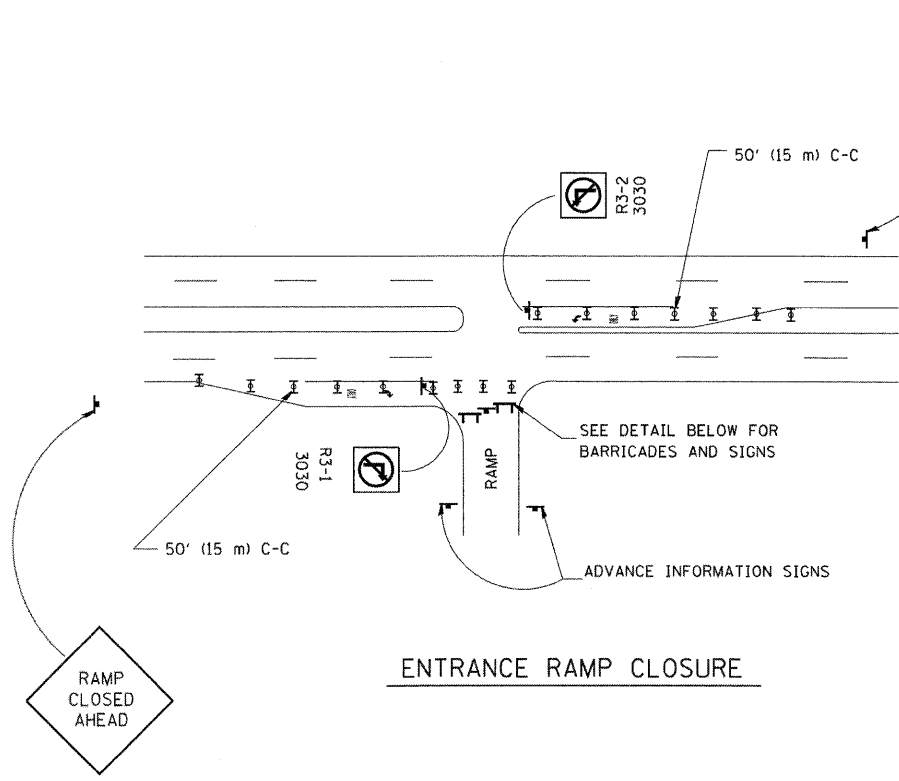
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	PLOT DATE = 1/4/2008	DATE - 06-16-04	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

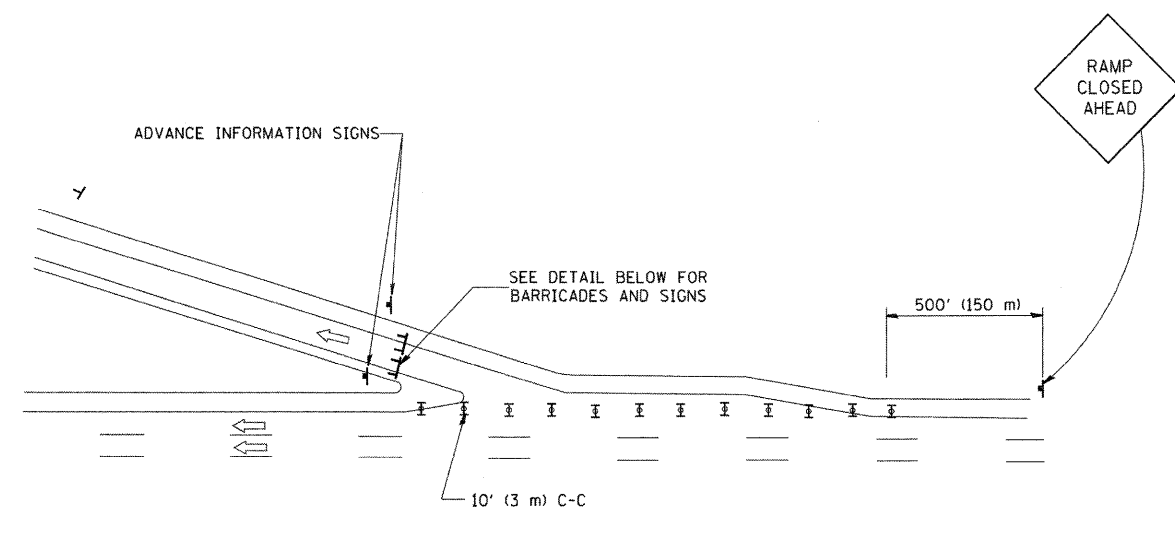
BENCHING DETAIL FOR EMBANKMENT WIDENING			
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BD-51			CONTRACT NO. 60C31	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

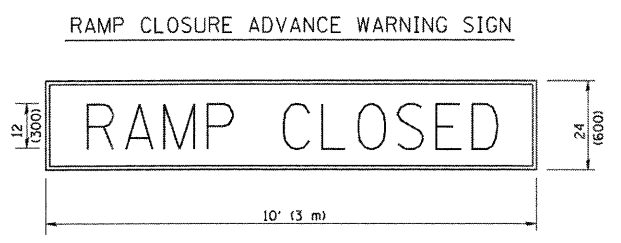
FINAL



ENTRANCE RAMP CLOSURE

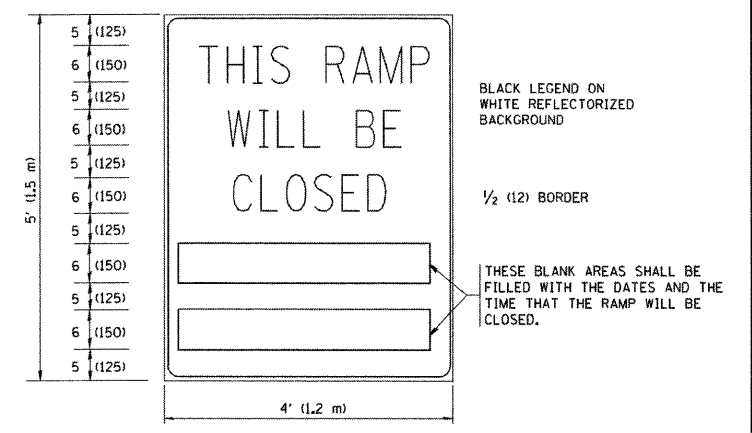


EXIT RAMP CLOSURE



THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMPS.

RAMP CLOSURE ADVANCE INFORMATION SIGN

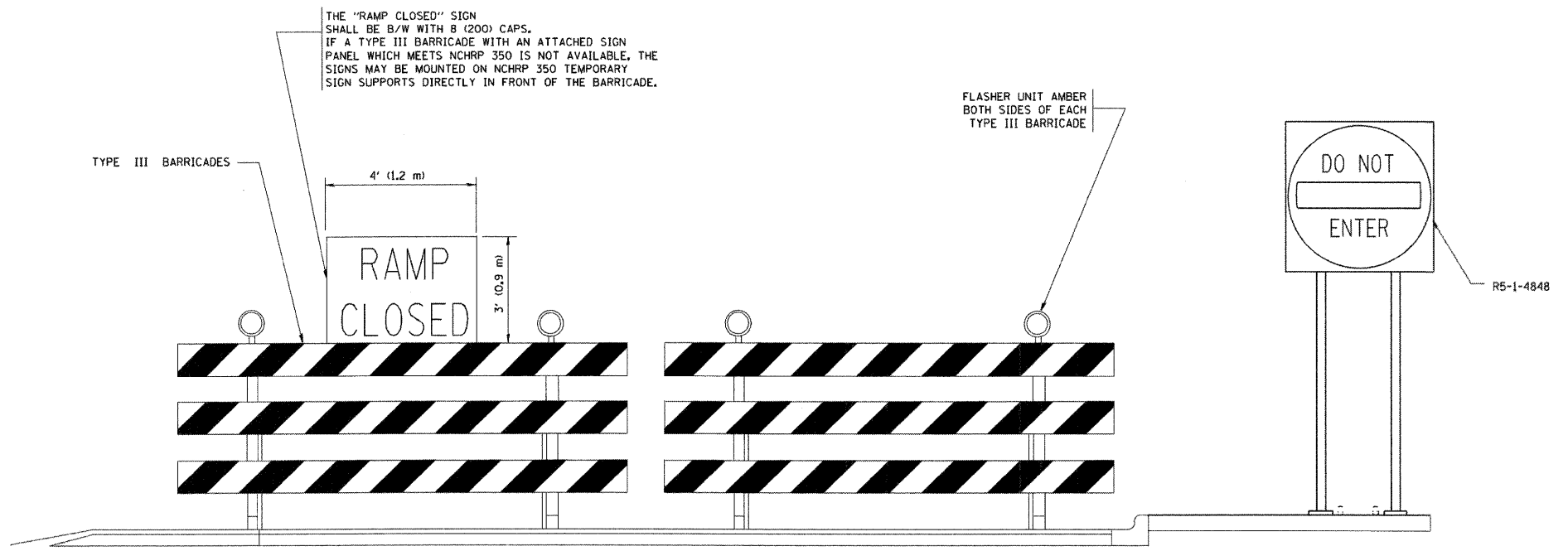


THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

GENERAL NOTES:

1. CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
2. STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
3. A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
4. ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
5. THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
7. THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY-FOUR (24) HOURS IN LENGTH.

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



DETAIL FOR REQUIRED BARRICADES & SIGNS

SYMBOLS

- ▬ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ▬ TYPE III BARRICADE WITH FLASHING LIGHT

FILE NAME =	USER NAME = geglienobt
W:\diststd\22x34\to28.dgn	

DESIGNED - DWS	REVISD - DWS 12-94
DRAWN -	REVISD - DWS/JAF 12-02
CHECKED -	REVISD - JAF 02-06
DATE - 02-83	REVISD - SPB 01-07

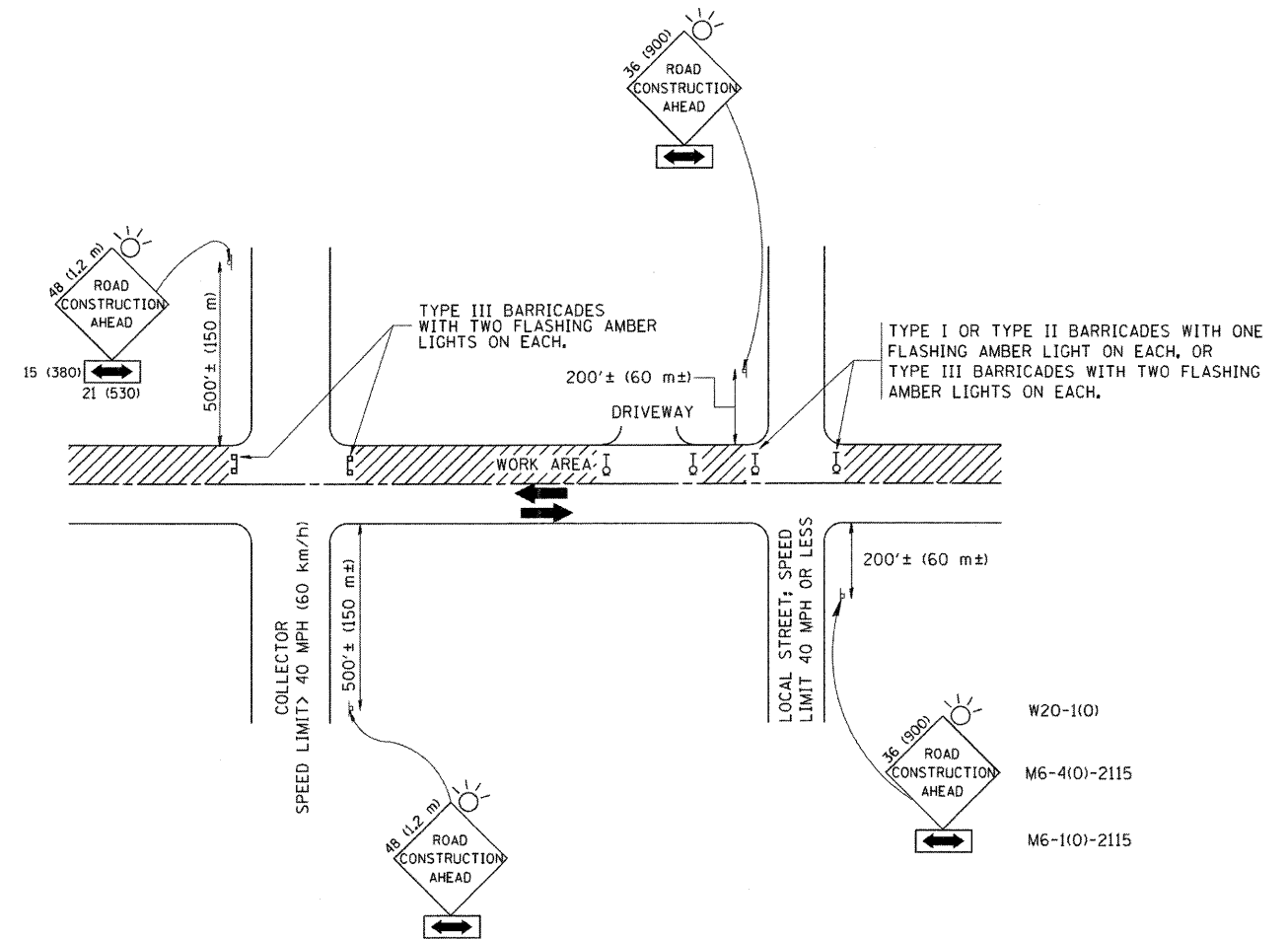
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PLOT DATE = 1/4/2008	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FREEWAY ENTRANCE AND EXIST RAMP CLOSURE DETAILS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	346
TC-08		CONTRACT NO. 60C31		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME = w:\diststd\22x34\tcl0.dgn	USER NAME = gegl1enobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50,000 / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

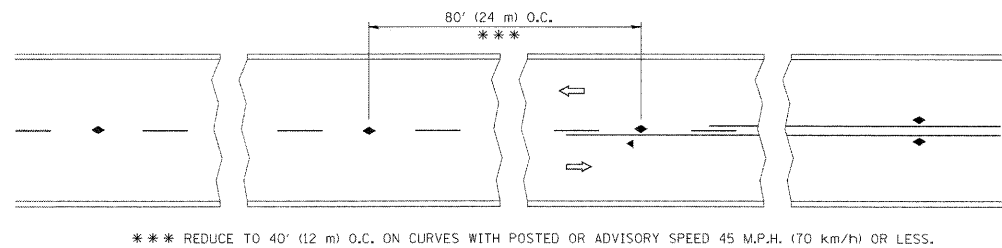
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

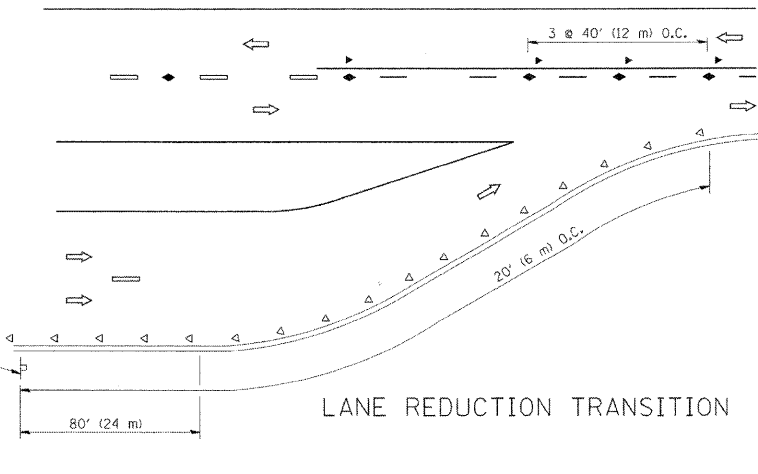
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

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TC-10			CONTRACT NO. 60C31	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

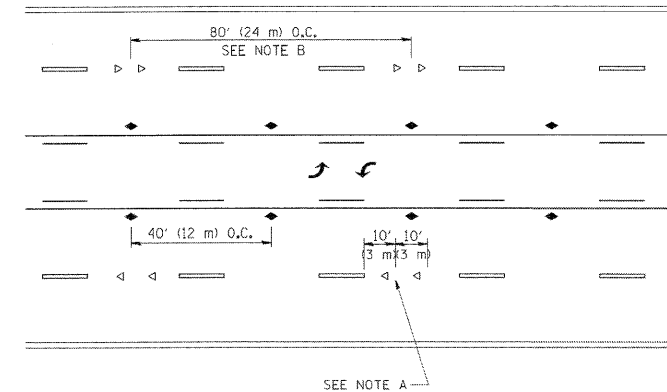
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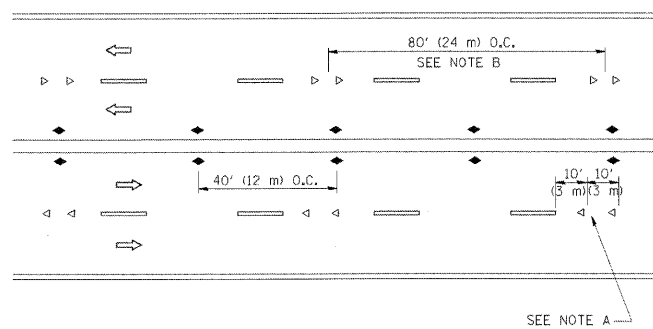
TWO-LANE/TWO-WAY



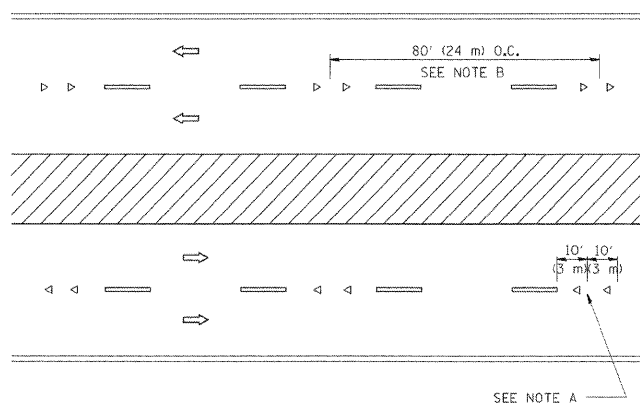
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

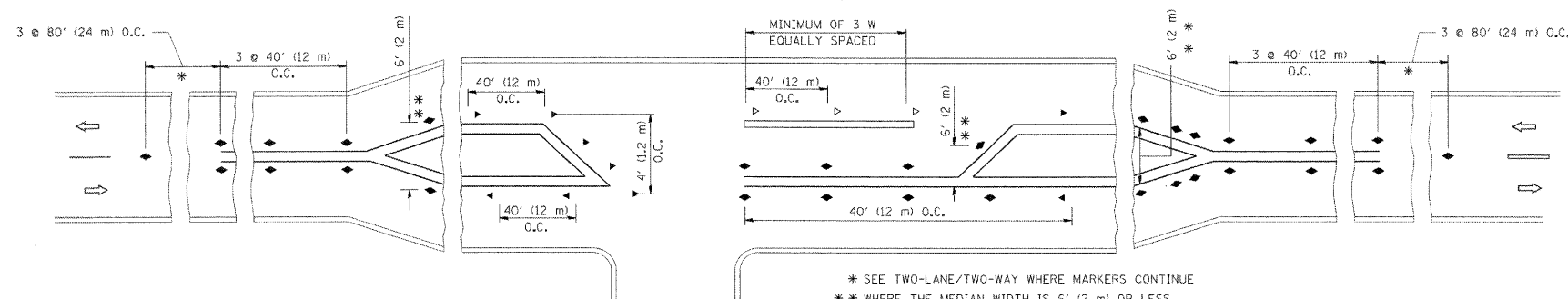
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
cs:\p_w\work\p\dot\drivakosgn\d018315\to1.dgn		DRAWN -	REVISED - T. RAMMACHER 03-12-99
	PLDT SCALE = 50.000 1/ IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLDT DATE = 9/9/2009	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

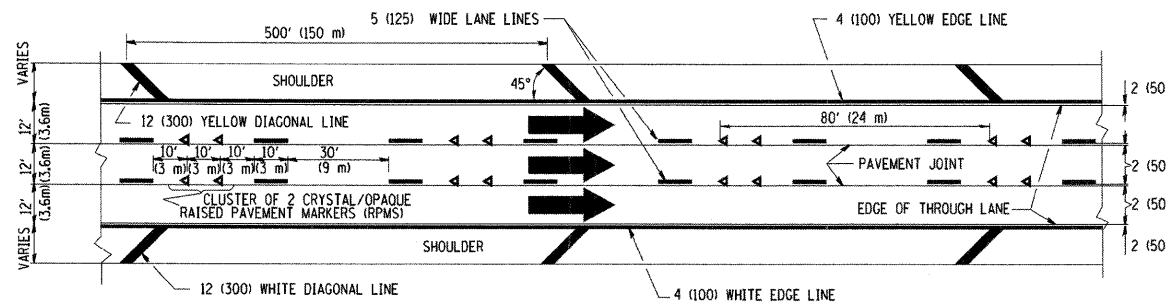
TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	348
TC-11			CONTRACT NO. 60C31	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

FINAL

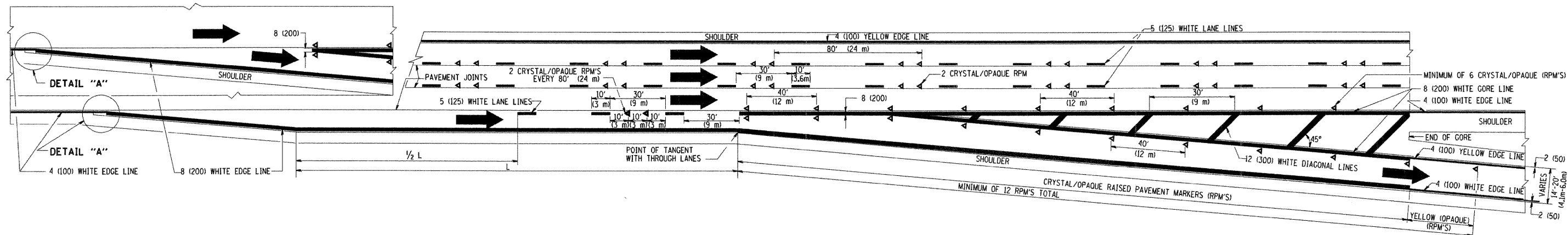
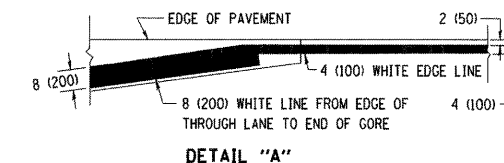
THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH
 THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH



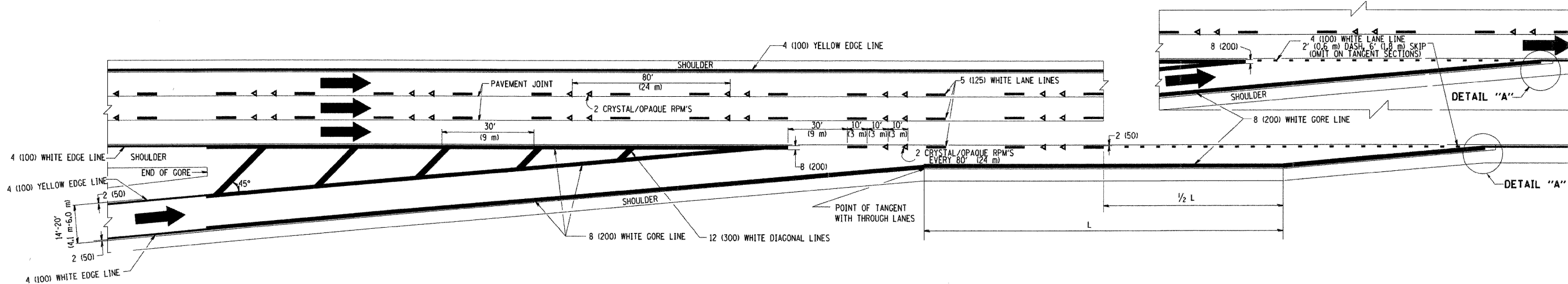
TYPICAL EDGE LINES & LANE LINES

NOTES:

1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE SHALL BE USED FOR ALL LANE LINES ON BITUMINOUS PAVEMENT
3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC



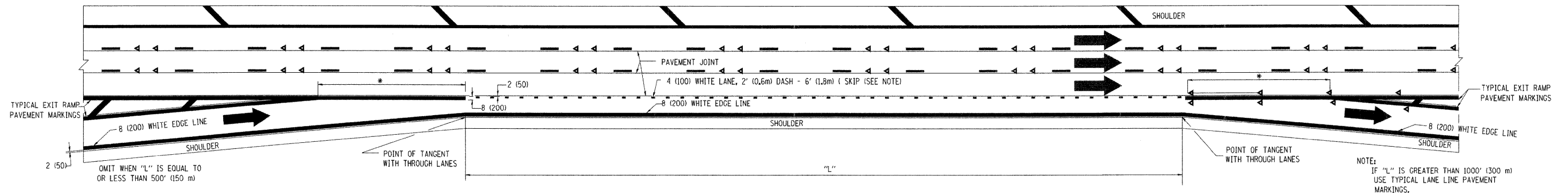
TYPICAL EXIT RAMP PAVEMENT MARKINGS



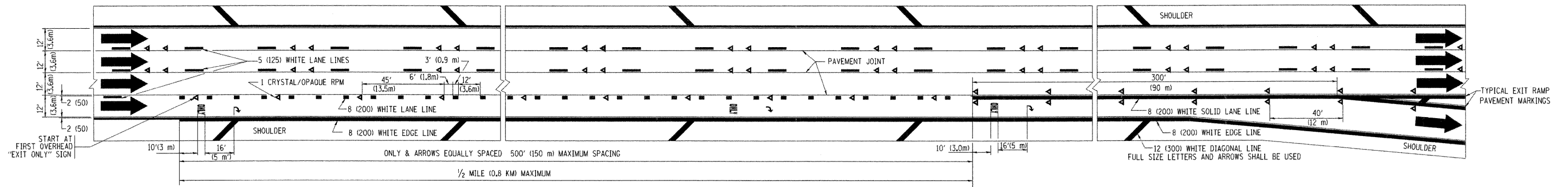
TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS

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	PLOT SCALE = 50,000' / IN.	DRAWN -	REVISED - D.W.S. 07-96		SCALE: NONE	SHEET NO. 1 OF 2 SHEETS	STA. TO STA.	CONTRACT NO. 60C31		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - J.A.F. 02-06									
		DATE - 01-90	REVISED - S.P.B. 01-07									

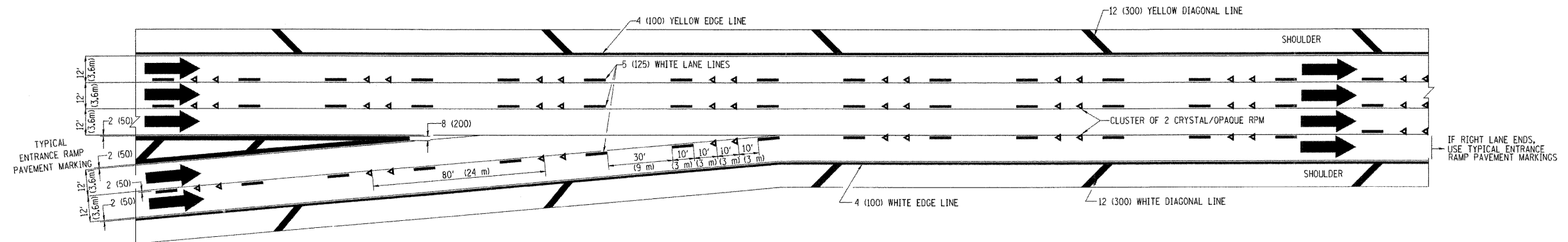
FINAL



TYPICAL ENTRANCE/EXIT RAMP COMBINATION PAVEMENT MARKINGS

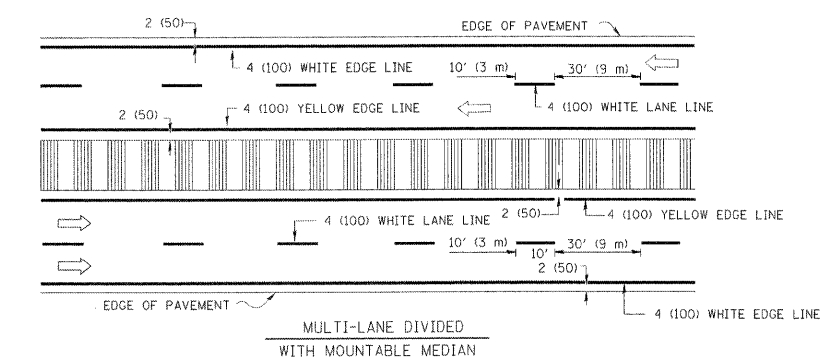
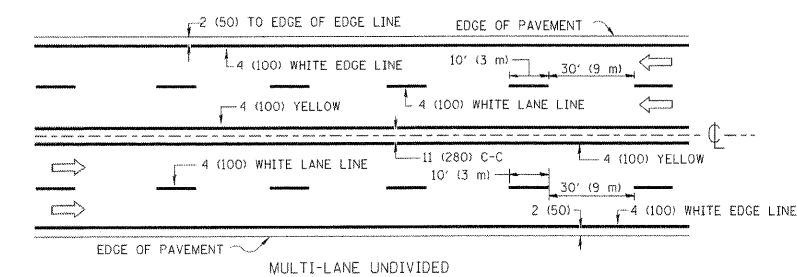
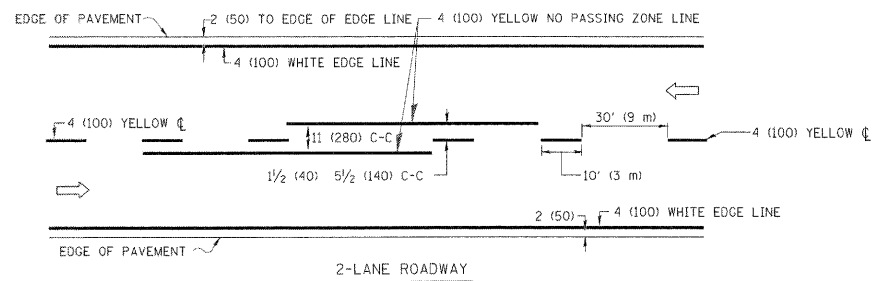


TYPICAL EXIT ONLY LANE PAVEMENT MARKINGS



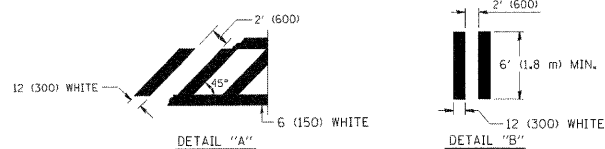
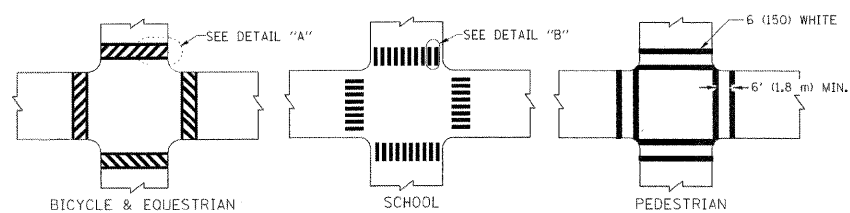
TYPICAL TWO LANE ENTRANCE RAMP PAVEMENT MARKINGS

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	PLOT SCALE = 50,000 / IN.	CHECKED -	REVISED - J.A.F. 02-06		SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	TC-12		CONTRACT NO. 60C31	
	PLOT DATE = 10/3/2008	DATE - 01-90	REVISED - S.P.B. 01-07						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

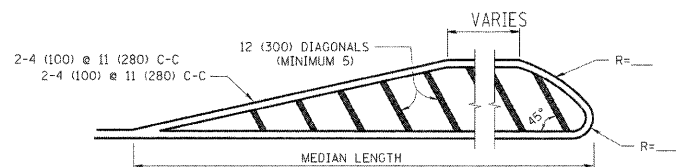
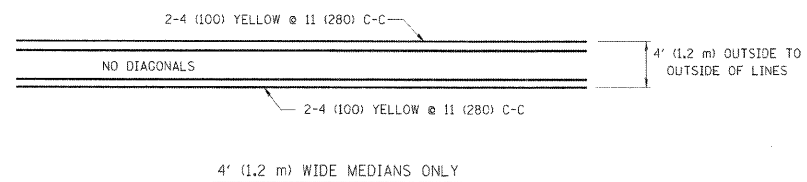


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

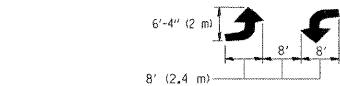
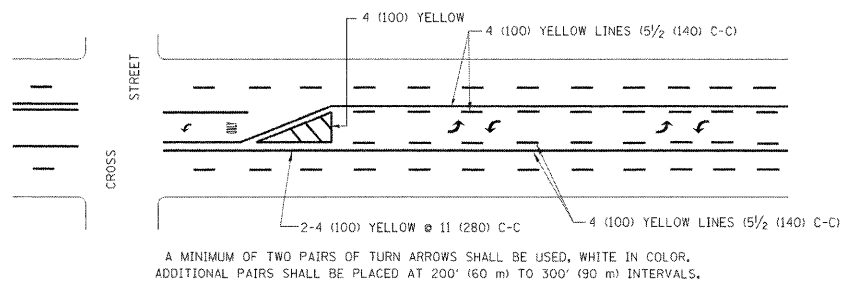


TYPICAL CROSSWALK MARKING



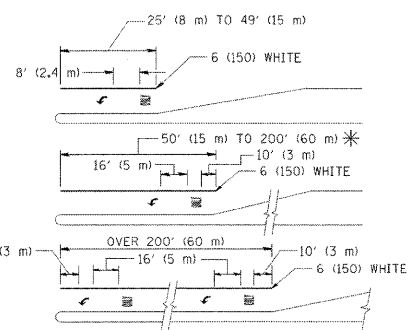
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
 DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE



MEDIAN WITH TWO-WAY LEFT TURN LANE

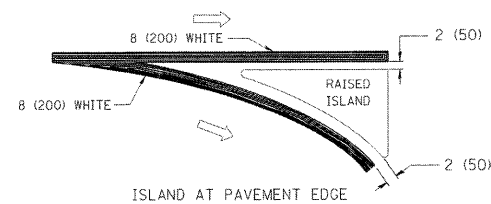
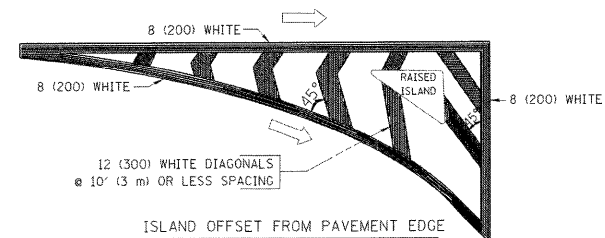
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

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ct:\pw\work\pwsdot\drvakosgn\d8108315\to3.dgn		DRAWN =	REVISED -C. JUICIUS 09-09-09
	PLOT SCALE = 5/8"=1' / IN.	CHECKED =	REVISED =
	PLOT DATE = 9/9/2009	DATE = 03-19-90	REVISED =

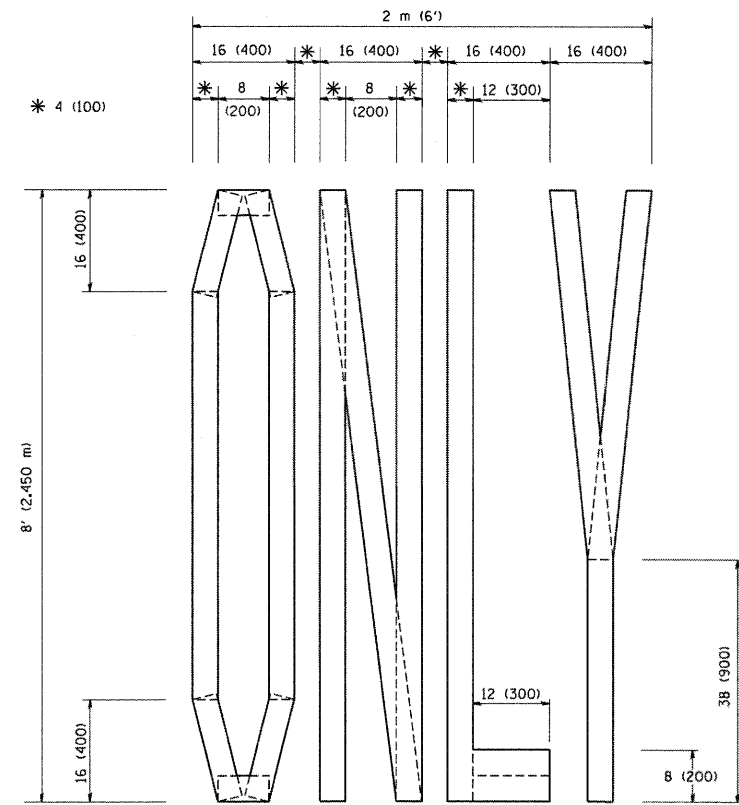
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

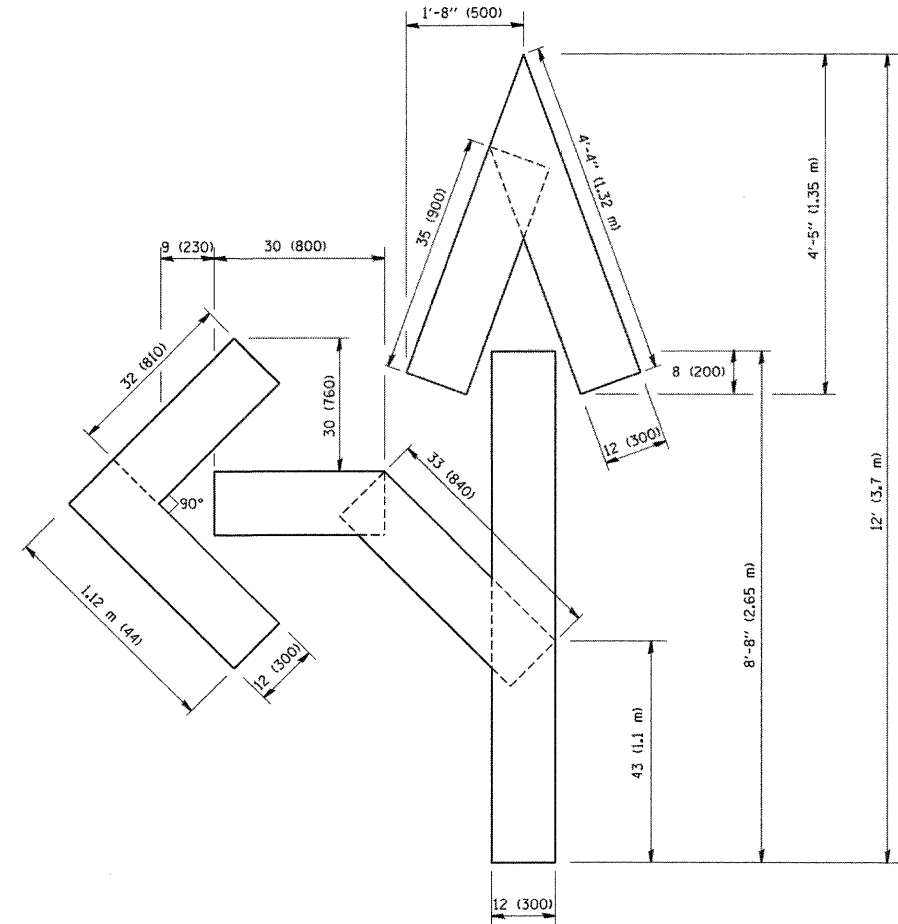
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	351
TC-13			CONTRACT NO. 60C31	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

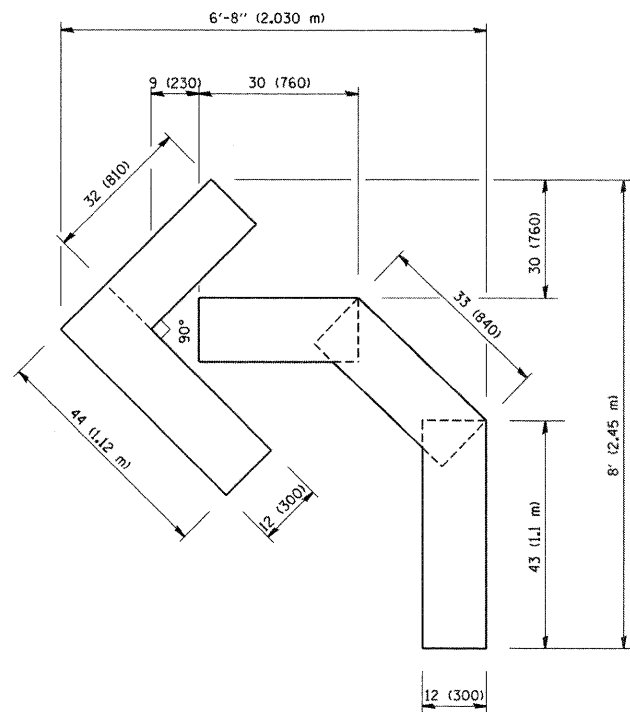
FINAL



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = W:\distd\22x34\tc16.dgn	USER NAME = gegljanobt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
		DRAWN -	REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 50.0000 "/ IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

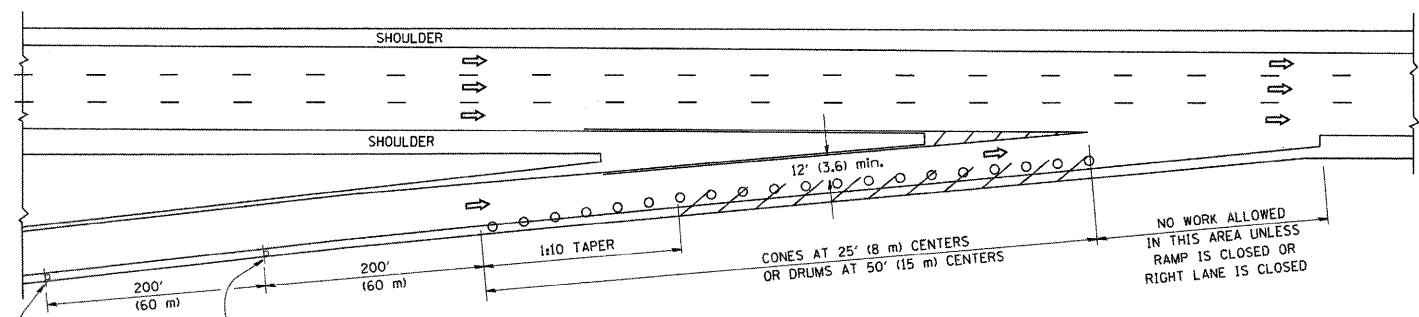
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-16		CONTRACT NO. 60C31		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

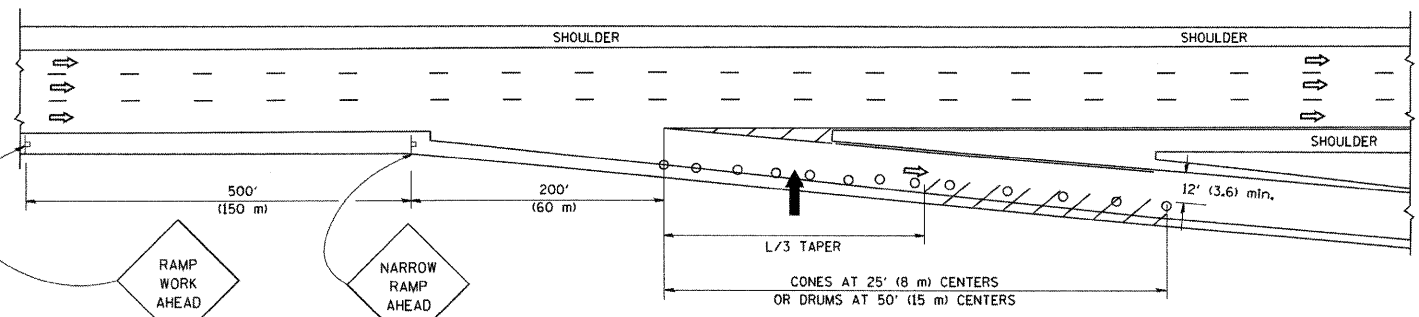
FINAL

PARTIAL RAMP CLOSURE DETAILS

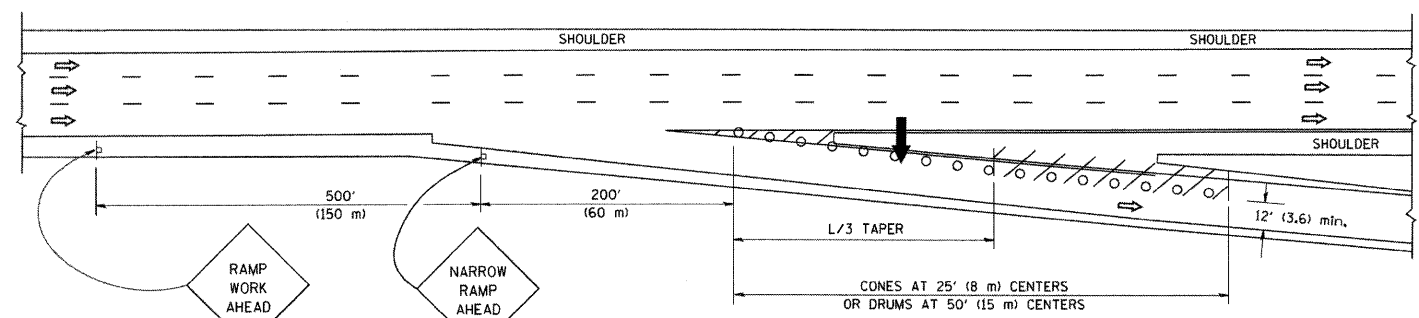
SHOULDER CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

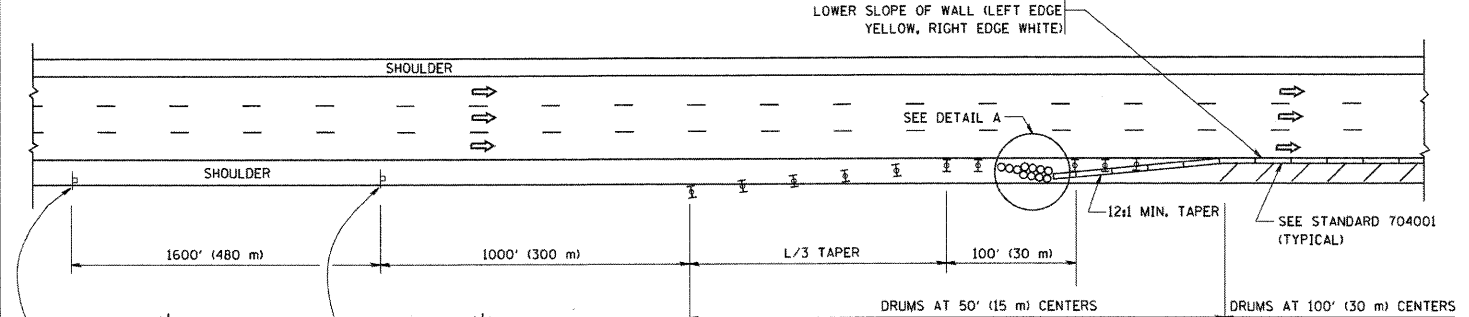
- ARROWBOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

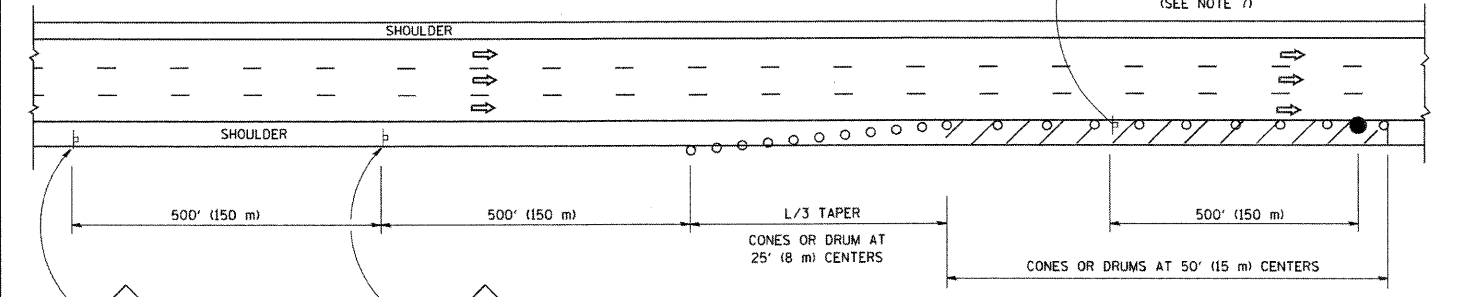
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH
	$L=0.65(W)(S)$ $L=(W)(S)$

W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350 COMPLIANT FOR POSTED SPEED.

DETAIL "A" IMPACT ATTENUATOR, TEMPORARY (SEE NOTE 5)

THIS DETAIL IS USED WHERE:
1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

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

FILE NAME = W:\dststd\22x34\tcl7.dgn

USER NAME = geglianobt	DESIGNED -	REVISED - J.A.F. 12-02
	DRAWN - D.W.S.	REVISED - 04-03
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - J.A.F. 12-06
PLOT DATE = 1/4/2008	DATE - 11-96	REVISED - S.P.B. 01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

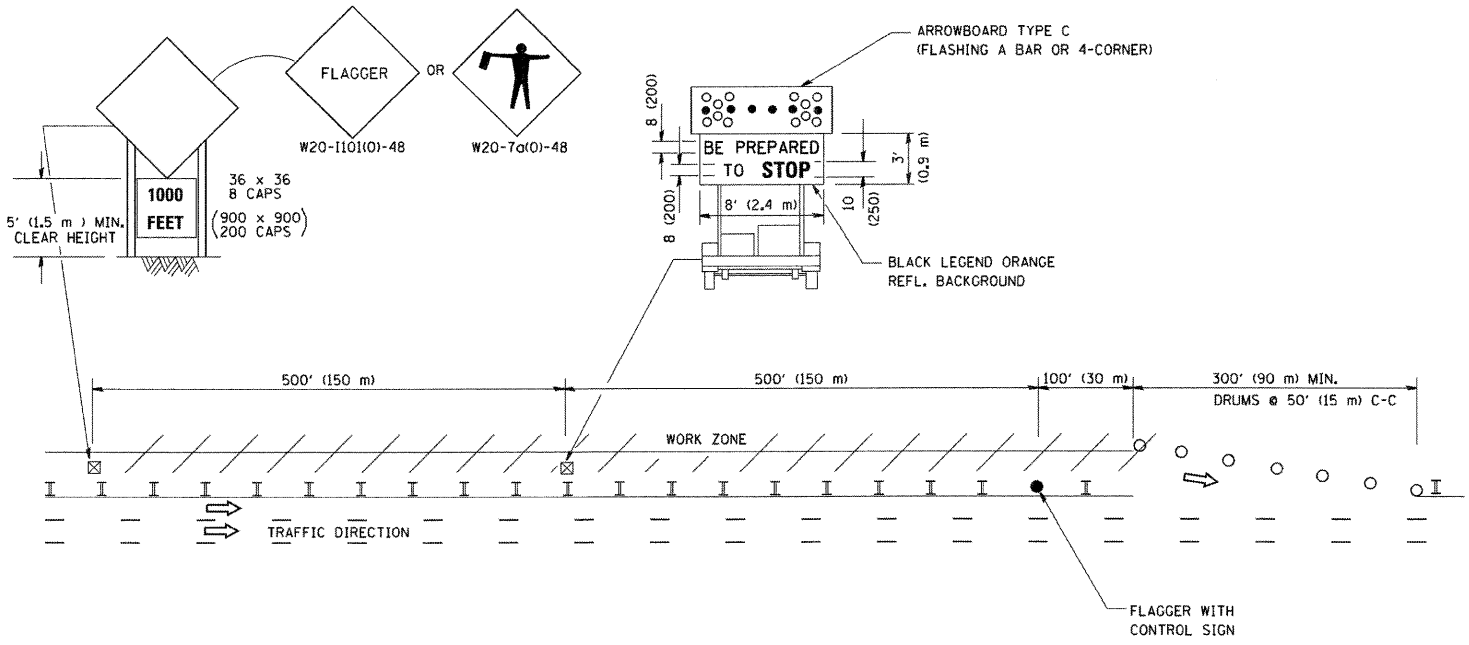
TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	

F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 353
TC-17		CONTRACT NO. 60C31		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

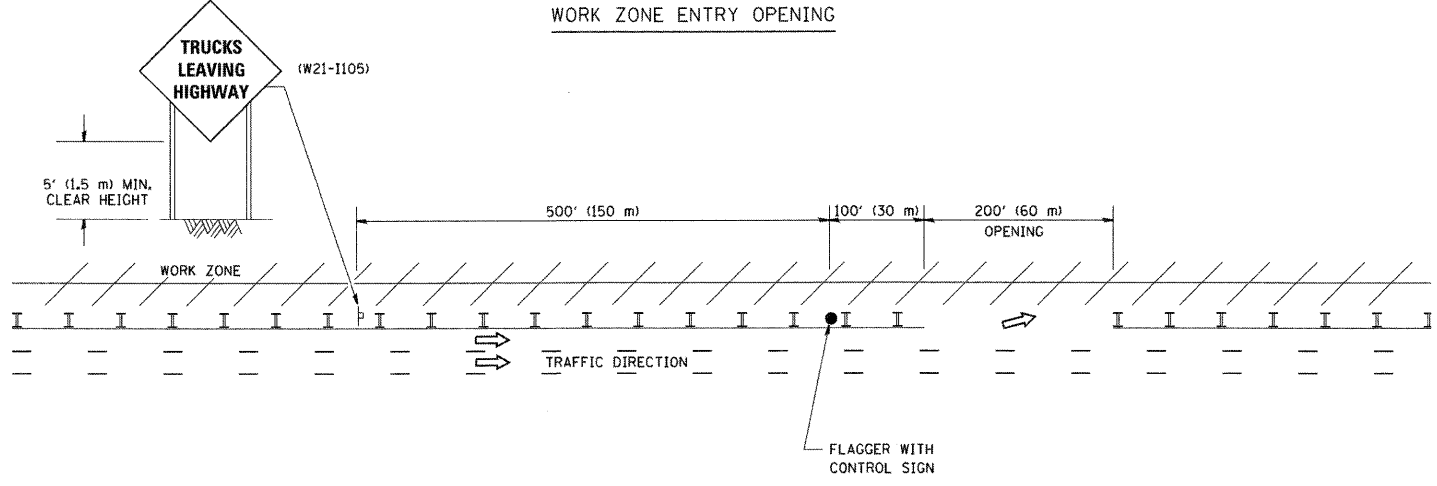
FINAL

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



- NOTES:
1. The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases.
 2. Work Zone Exit Openings should be a minimum of one half mile apart.
 3. Exiting the work zone at any place other than at a Work Zone Exit Opening will be prohibited.
 4. All vehicles shall enter the work zone at entry openings, using their turn signals to warn motorists

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = W:\diststd\22x34\tcl8.dgn	USER NAME = geglianobt	DESIGNED - DRAWN -	REVISED - REVISED -
	PLOT SCALE = 50,000 / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SIGNING FOR FLAGGING OPERATIONS
AT WORK ZONE OPENINGS**

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

F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 354
TC-18		CONTRACT NO. 60C31		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL

ROUTE MARKERS

FOR U.S. ROUTES
M1-40-2424

FOR ILLINOIS ROUTES
M1-50-2424

R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

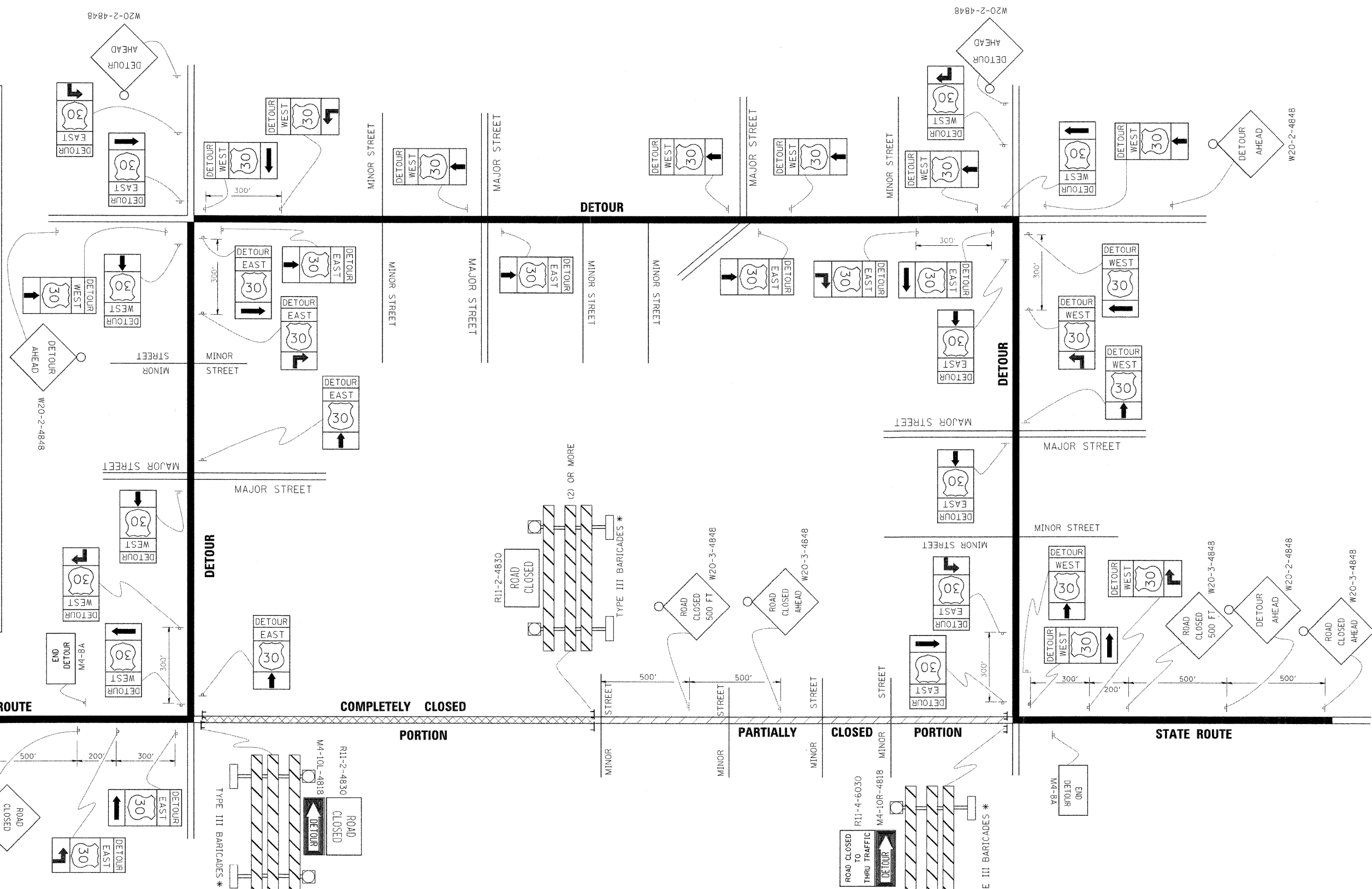
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

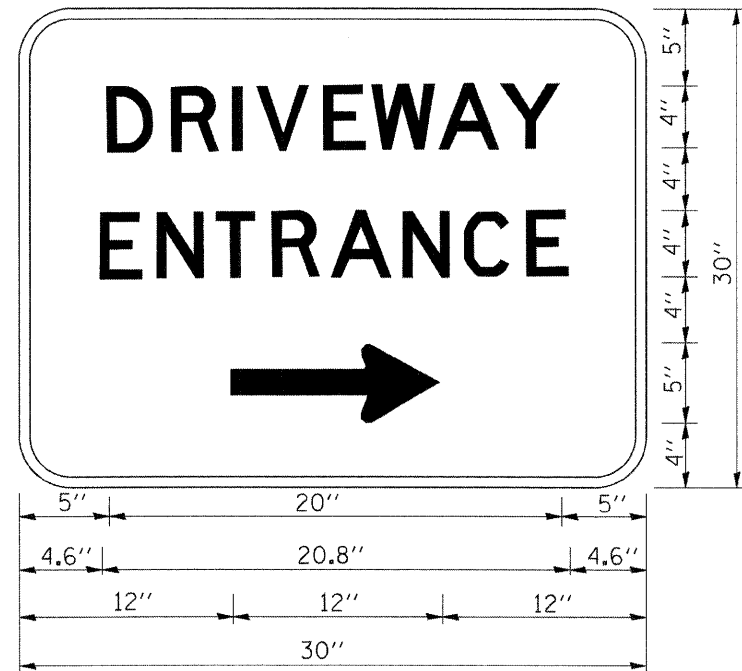
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c:\pwork\PWIDOT\DRIVAKOSN\d0188315\121.dgn		DRAWN -	REVISED - R. BORO 09-14-09
	PLOT SCALE = 49.9999' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/14/2009	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	355
TC-21		CONTRACT NO. 60C31		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME = W:\diststd\22x34\to26.dgn	USER NAME = geglianobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07
		DRAWN -	REVISED -
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

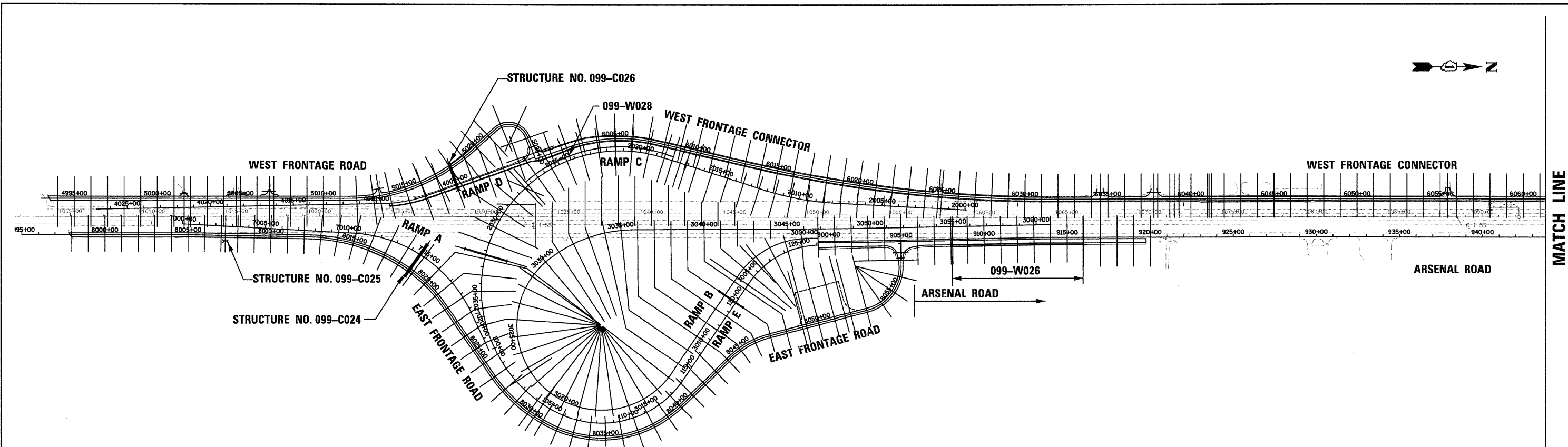
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

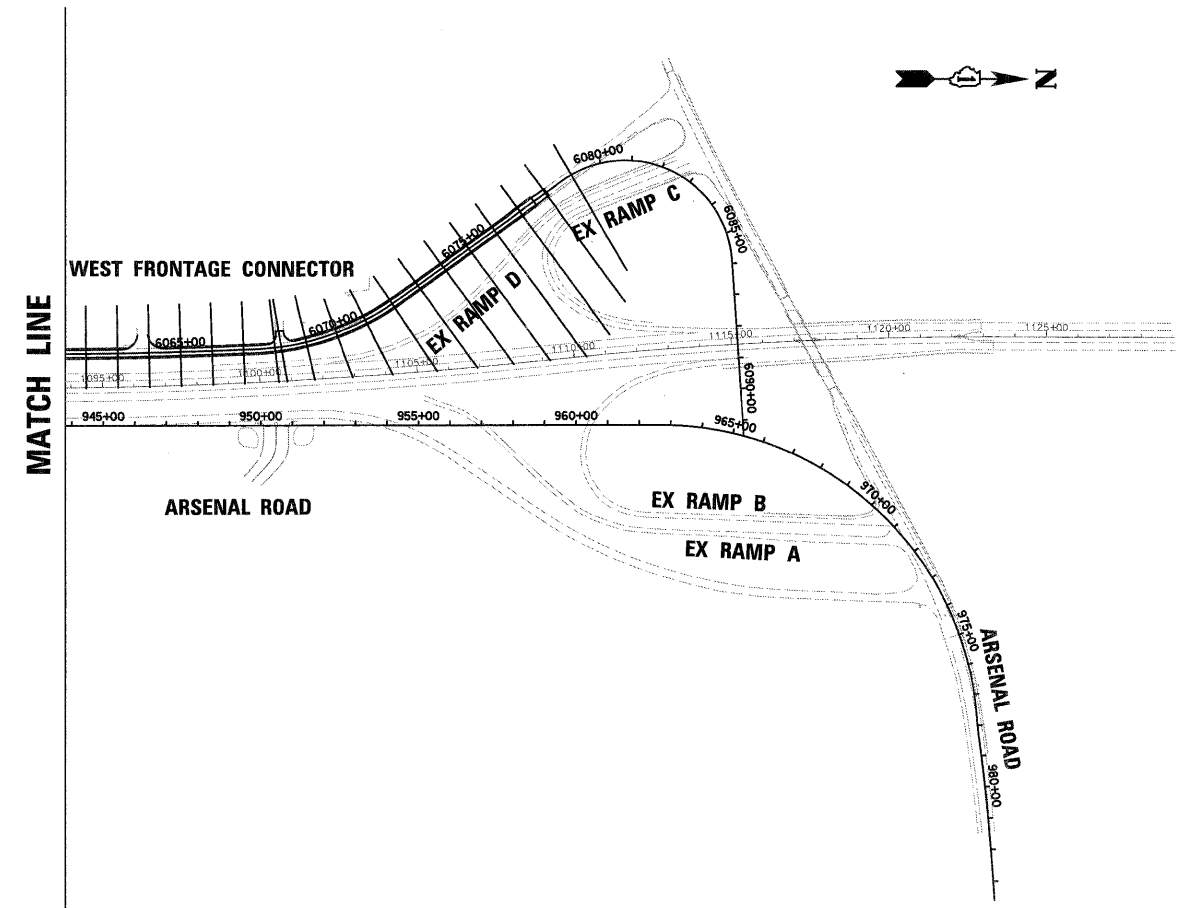
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	356
TC-26			CONTRACT NO. 60C31	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL



NOTE:
 RAMP B ROADWAY GRADING SHOWN FROM XS-89 TO XS-108.
 RAMP B POND GRADING SHOWN FROM XS-109 TO XS-124.



FILE NAME = D:\60C31-SHT-XSSH100.dgn	USER NAME = TKIue1	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE - 12/18/09	REVISED -

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

CROSS SECTION KEY MAP			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 357
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

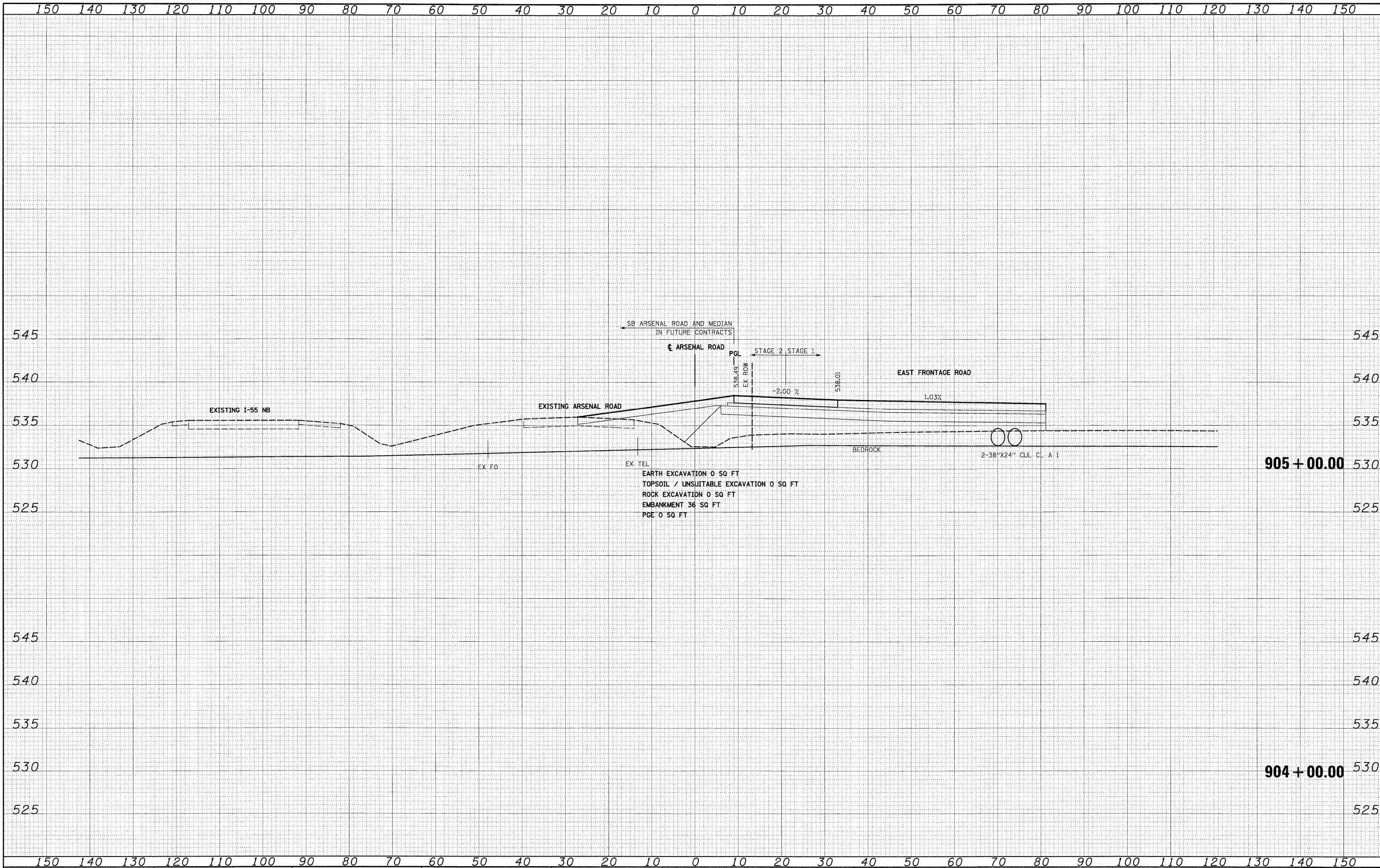
MATCH LINE

FINAL

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

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

McDonough Associates Inc.
 Engineers/Architects
 100 East Randolph Street, Chicago, Illinois 60601



FILE NAME = D:\60C31-SHT-XSSH11.dgn
 USER NAME = TKluerg1

DESIGNED - TRK
 DRAWN - TRK
 CHECKED - DLT
 PLOT DATE = 12/11/2009

REVISIED -
 REVISIED -
 REVISIED -
 REVISIED -

DATE = 12/18/09

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STAGE 1 ARSENAL ROAD CROSS SECTIONS
 SCALE: 1"=10'H; 1"=5'V SHEET NO. 1 OF 2 SHEETS STA. 904+00.00 TO STA. 905+00.00

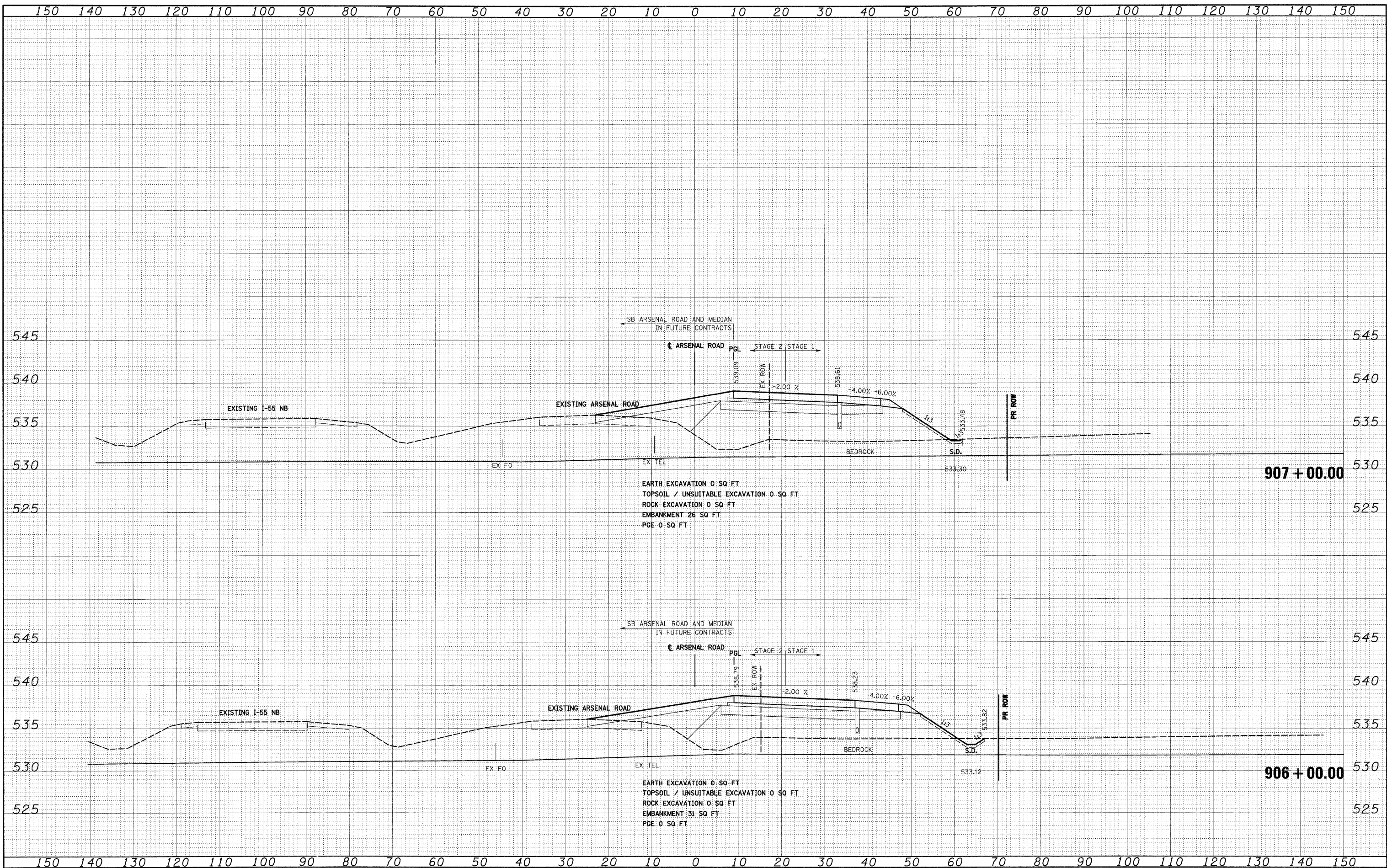
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	358
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL

FINAL SURVEY	DATE
SURVEYED	BY
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NOTE BOOK	
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CHECKED	
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ORIGINAL SURVEY	DATE
SURVEYED	BY
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NOTE BOOK	
AREAS	
CHECKED	
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 730 East Randolph Street, Chicago, Illinois 60601



FILE NAME = D:\60C31-SHT-X55HT11.dgn
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 DESIGNED - TRK
 DRAWN - TRK
 CHECKED - DLT
 DATE - 12/18/09

REVISIED -
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 REVISIED -
 REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STAGE 1 ARSENAL ROAD CROSS SECTIONS

SCALE: 1"=10'H; 1"=5'V SHEET NO. 2 OF 2 SHEETS STA. 906+00.00 TO STA. 907+00.00

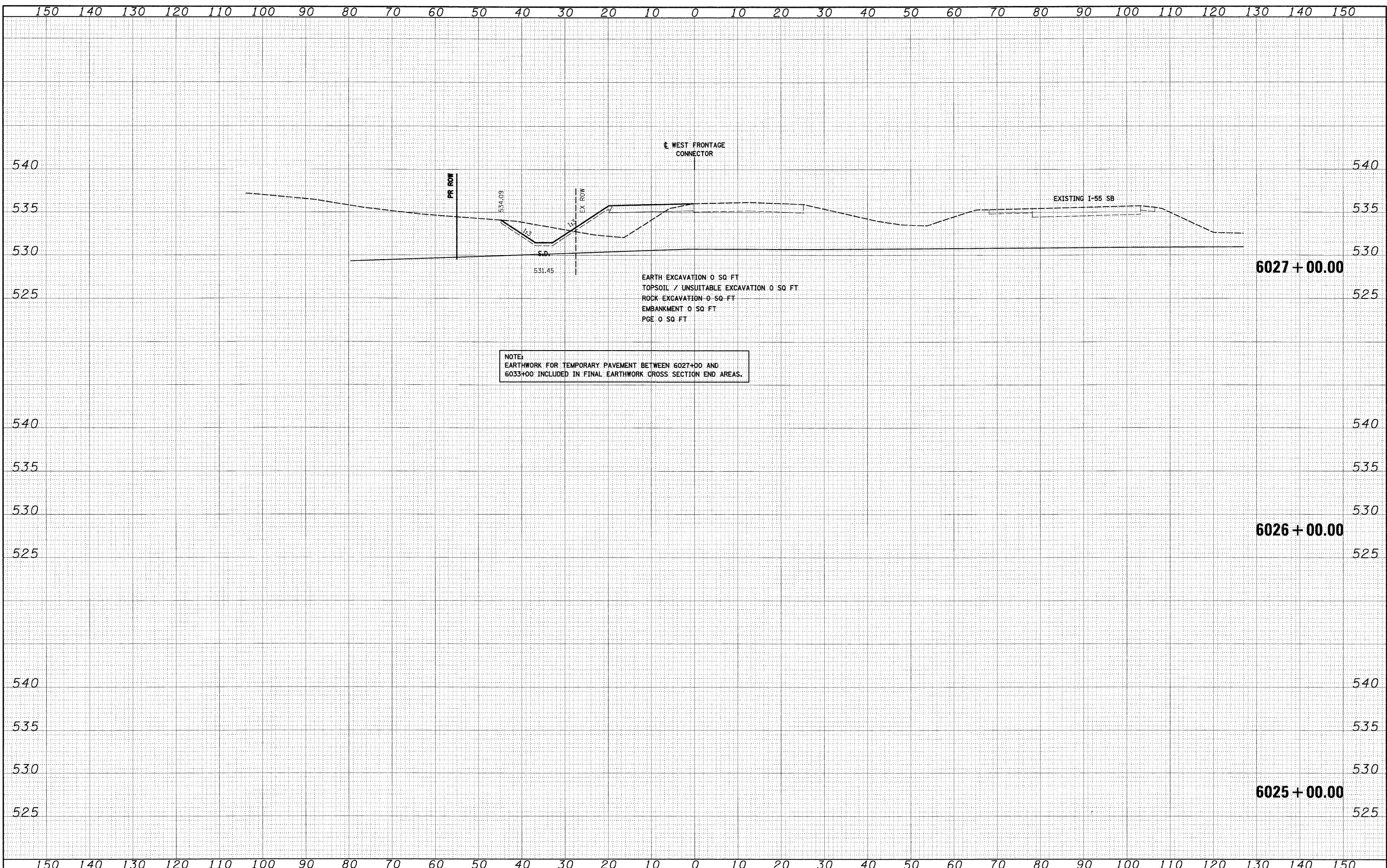
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	359
CONTRACT NO. 60C31				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

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

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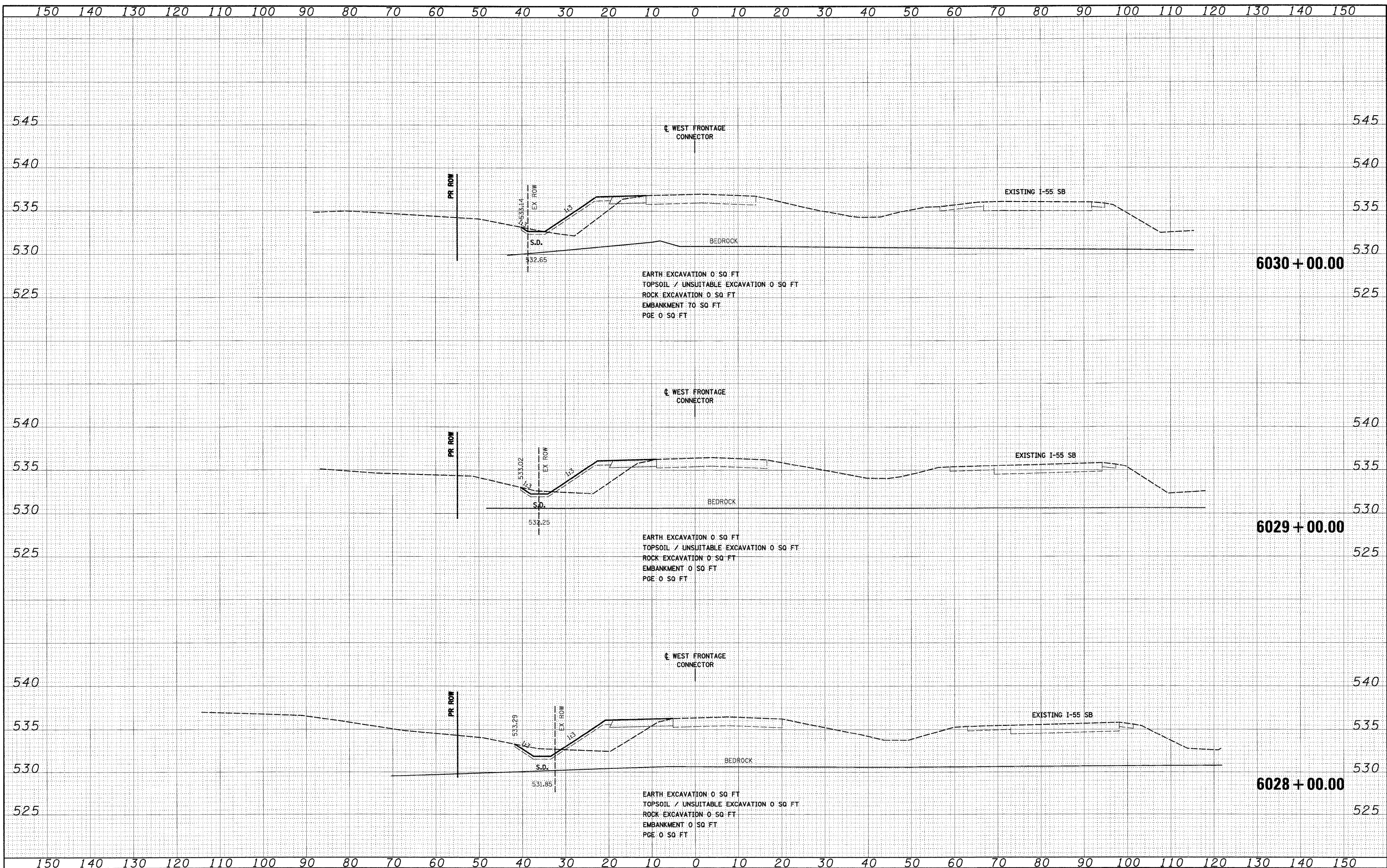
NOTE:
 EARTHWORK FOR TEMPORARY PAVEMENT BETWEEN 6027+00 AND 6033+00 INCLUDED IN FINAL EARTHWORK CROSS SECTION END AREAS.

FILE NAME = 0:\60C31-SHT-XSHT12.dgn	USER NAME = TKluegel	DESIGNED - TRK	REVISOR	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 1 WEST FRONTAGE ROAD CONNECTOR	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 360
PLOT SCALE = 1:10	CHECKED - DLT	REVISOR	SCALE: 1"=10'H; 1"=5'V. SHEET NO. 1 OF 5 SHEETS			STA. 6025+00.00 TO STA. 6027+00.00	CONTRACT NO. 60C31			
PLOT DATE = 12/15/2009	DATE - 12/18/09	REVISOR	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

FINAL

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

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SURVEYED	
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NOTE BOOK	
AREAS CHECKED	
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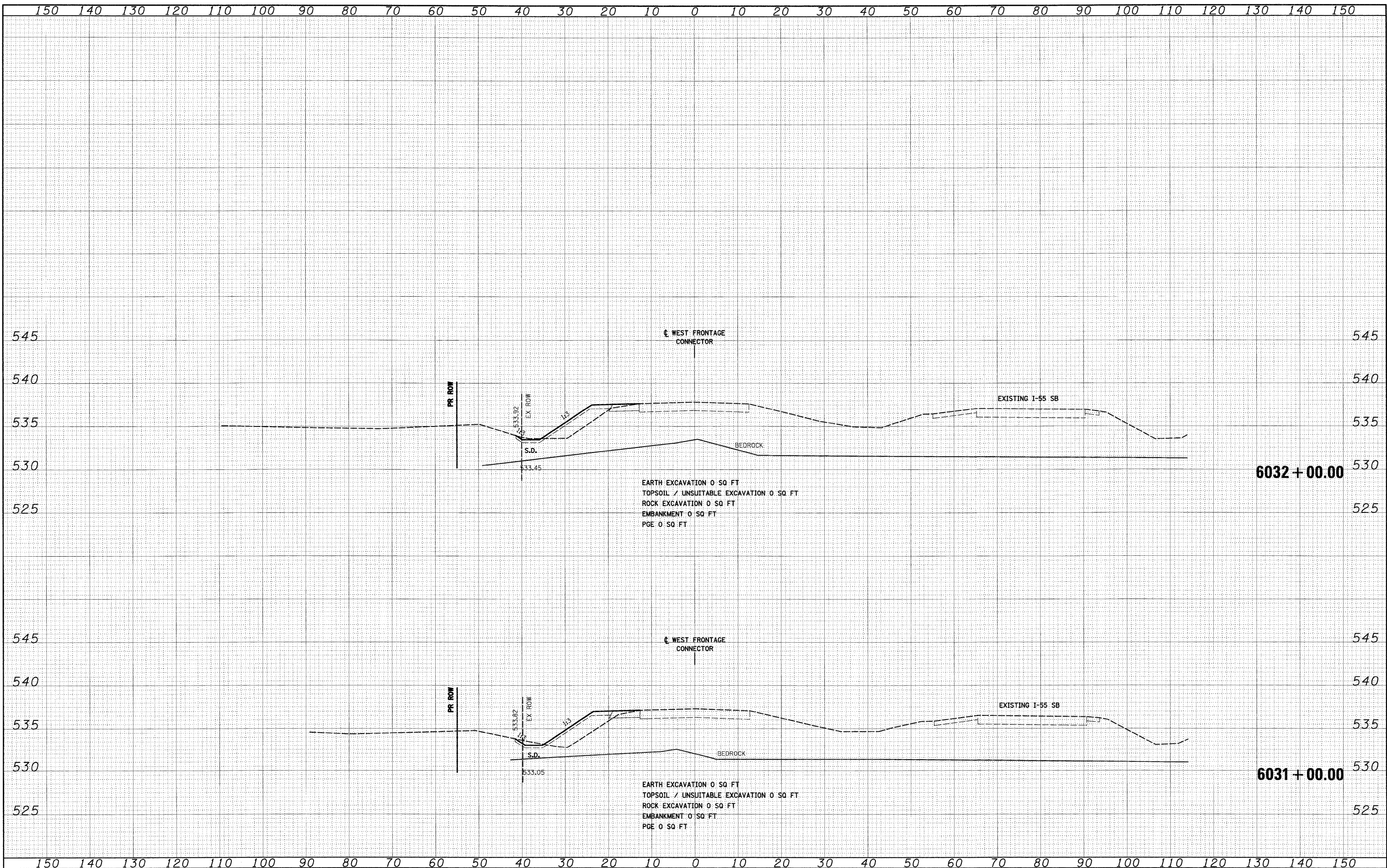
FILE NAME = D:\60C31-SHT-XSSHT12.dgn	USER NAME = TKluagel	DESIGNED - TRK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 1 WEST FRONTAGE ROAD CONNECTOR	F.A.I. R.T.E. = 55	SECTION = (99-1&2)AC-3	COUNTY = WILL	TOTAL SHEETS = 524	SHEET NO. = 361
PLOT SCALE = 1/4"=1'	CHECKED - DLT	REVISED -	SCALE: 1"=10'H; 1/2"=5' V			SHEET NO. 2 OF 5 SHEETS	STA. 6028+00.00 TO STA. 6030+00.00	FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT	CONTRACT NO. 60C31
PLOT DATE = 12/15/2009	DATE - 12/18/09	REVISED -								

FINAL

FINAL SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
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AREAS CHECKED		
NO.		

OPTIONAL SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS		
AREAS CHECKED		
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 Engineers / Architects
 139 East Randolph Street, Chicago, Illinois 60601



FILE NAME = D:\60C31-SH-XSHT12.dgn

USER NAME = TKluigel
 PLOT SCALE = 1/4"=1'-0"
 PLOT DATE = 12/15/2009

DESIGNED - TRK
 DRAWN - TRK
 CHECKED - DLT
 DATE - 12/18/09

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STAGE 1 WEST FRONTAGE ROAD CONNECTOR

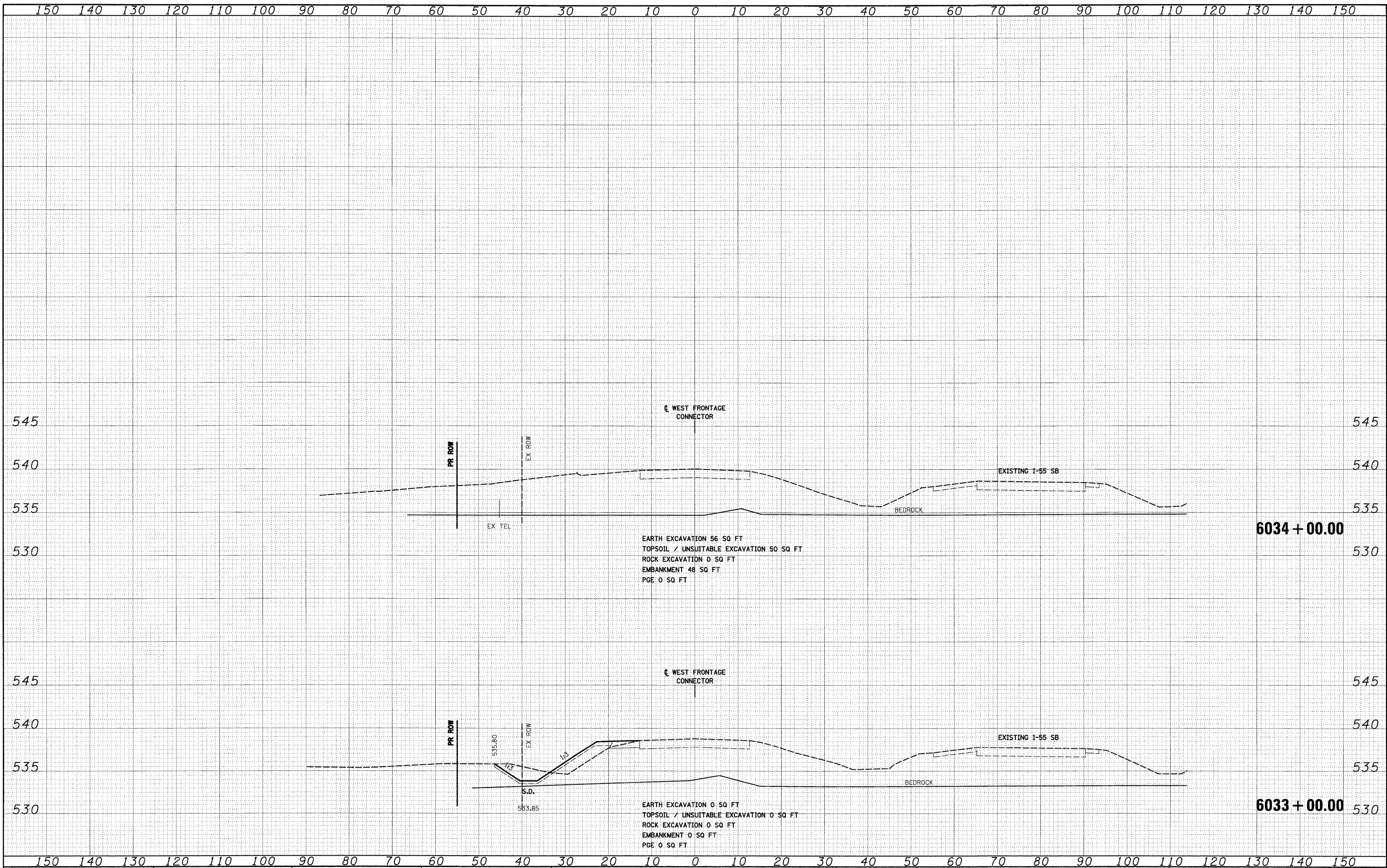
SCALE: 1"=10'H; 1"=5'V SHEET NO. 3 OF 5 SHEETS STA. 6031+00.00 TO STA. 6032+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	362
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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 Engineers & Architects
 100 East Randolph Street, Chicago, Illinois 60601



FILE NAME = D:\60C31-SHT-X55HT12.dgn

USER NAME = TKluerg1	DESIGNED - TRK	REVISED -
PLT SCALE = 1:10	DRAWN - TRK	REVISED -
PLT DATE = 12/15/2009	CHECKED - DLT	REVISED -
	DATE - 12/18/09	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STAGE 1 WEST FRONTAGE ROAD CONNECTOR

SCALE: 1"=10'H; 1"=5'V SHEET NO. 4 OF 5 SHEETS STA. 6033+00.00 TO STA. 6034+53.77

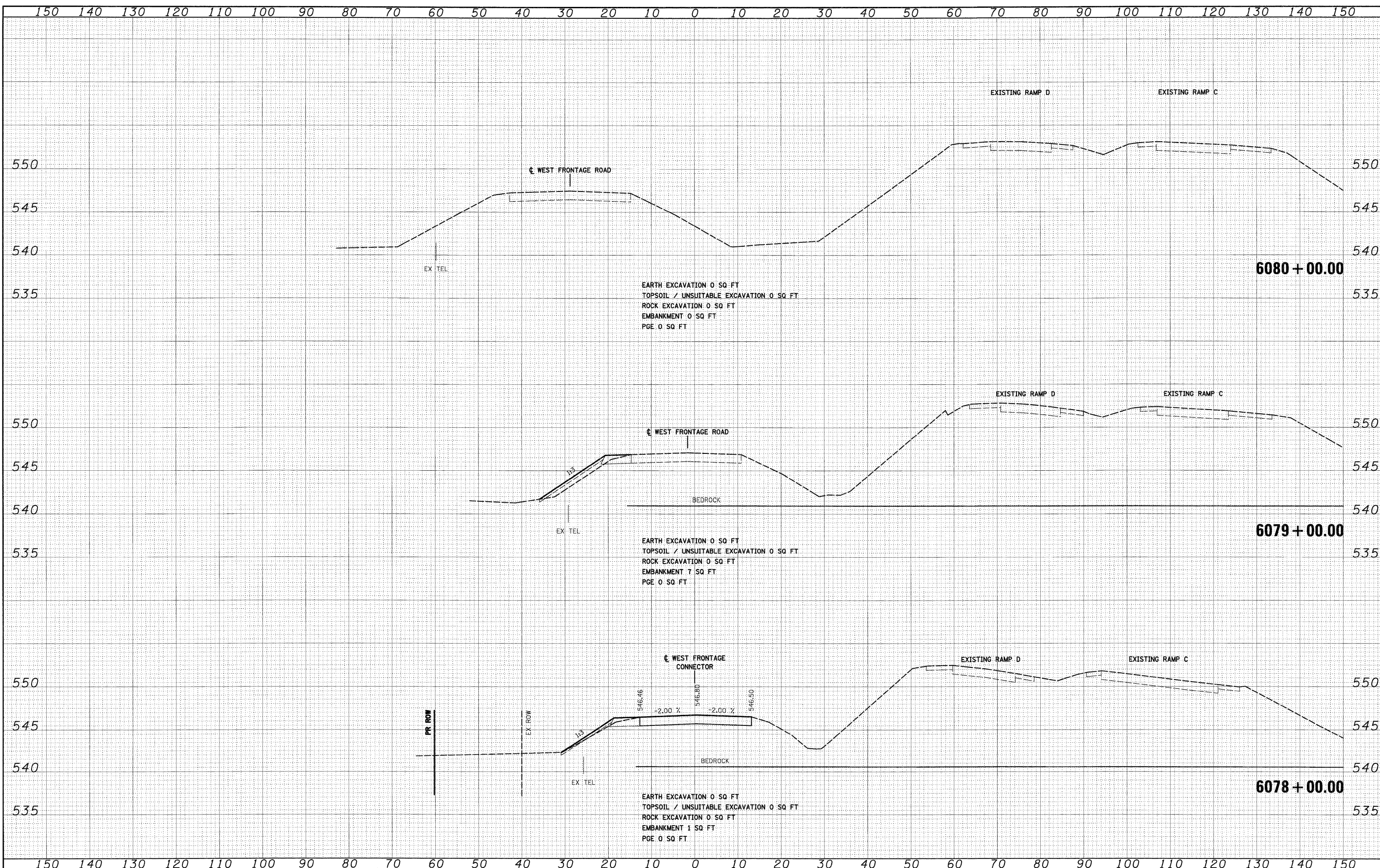
F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 363
CONTRACT NO. 60C31			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

FINAL

FINAL SURVEY	DATE
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NOTE BOOK	
AREAS CHECKED	
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ORIGINAL SURVEY	DATE
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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 Engineers Architects
 700 East Randolph Street, Chicago, Illinois 60601



FILE NAME = 01:60C31-SHT-XSSHT12.dgn
 USER NAME = TKluugel

DESIGNED - TRK
 DRAWN - TRK
 CHECKED - DLT
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REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

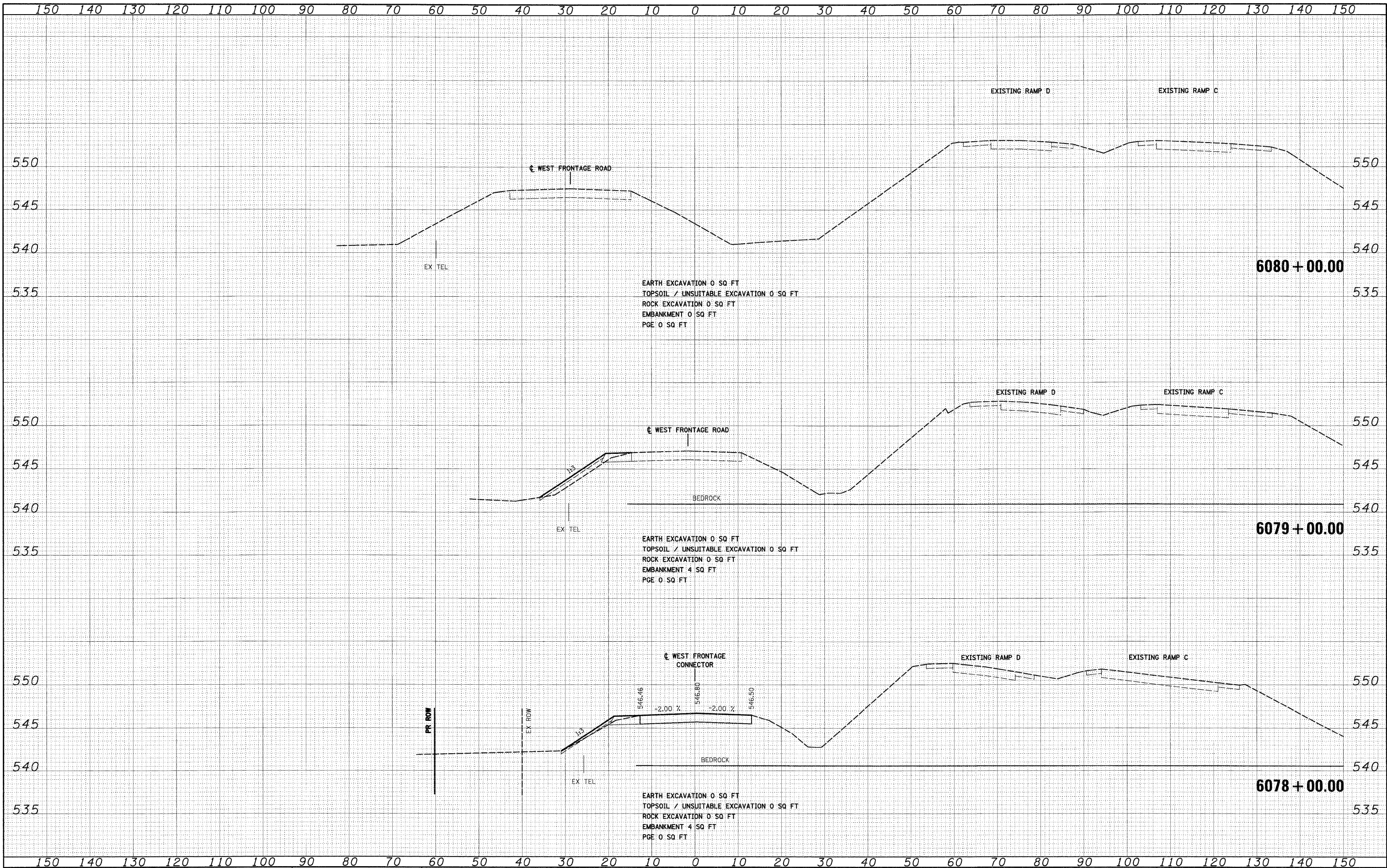
STAGE 1 WEST FRONTAGE ROAD CONNECTOR
 SCALE: 1"=10'H; 1"=5'V SHEET NO. 5 OF 5 SHEETS STA. 6077+00.00 TO STA. 6079+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	364
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
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NOTE BOOK	
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DATE	
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SURVEYED	
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NOTE BOOK	
AREAS CHECKED	
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 Engineers/Architects
 100 East Randolph Street, Chicago, Illinois 60601



EARTH EXCAVATION 0 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 0 SQ FT
 ROCK EXCAVATION 0 SQ FT
 EMBANKMENT 0 SQ FT
 PGE 0 SQ FT

EARTH EXCAVATION 0 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 0 SQ FT
 ROCK EXCAVATION 0 SQ FT
 EMBANKMENT 4 SQ FT
 PGE 0 SQ FT

EARTH EXCAVATION 0 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 0 SQ FT
 ROCK EXCAVATION 0 SQ FT
 EMBANKMENT 4 SQ FT
 PGE 0 SQ FT

FILE NAME = 0160C31-SHT-XSSH22.dgn

USER NAME = TKLuegel
 PLOT SCALE = 1/12
 PLOT DATE = 12/11/2009

DESIGNED - TRK
 DRAWN - TRK
 CHECKED - DLT
 DATE - 12/18/09

REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STAGE 2 WEST FRONTAGE ROAD CONNECTOR

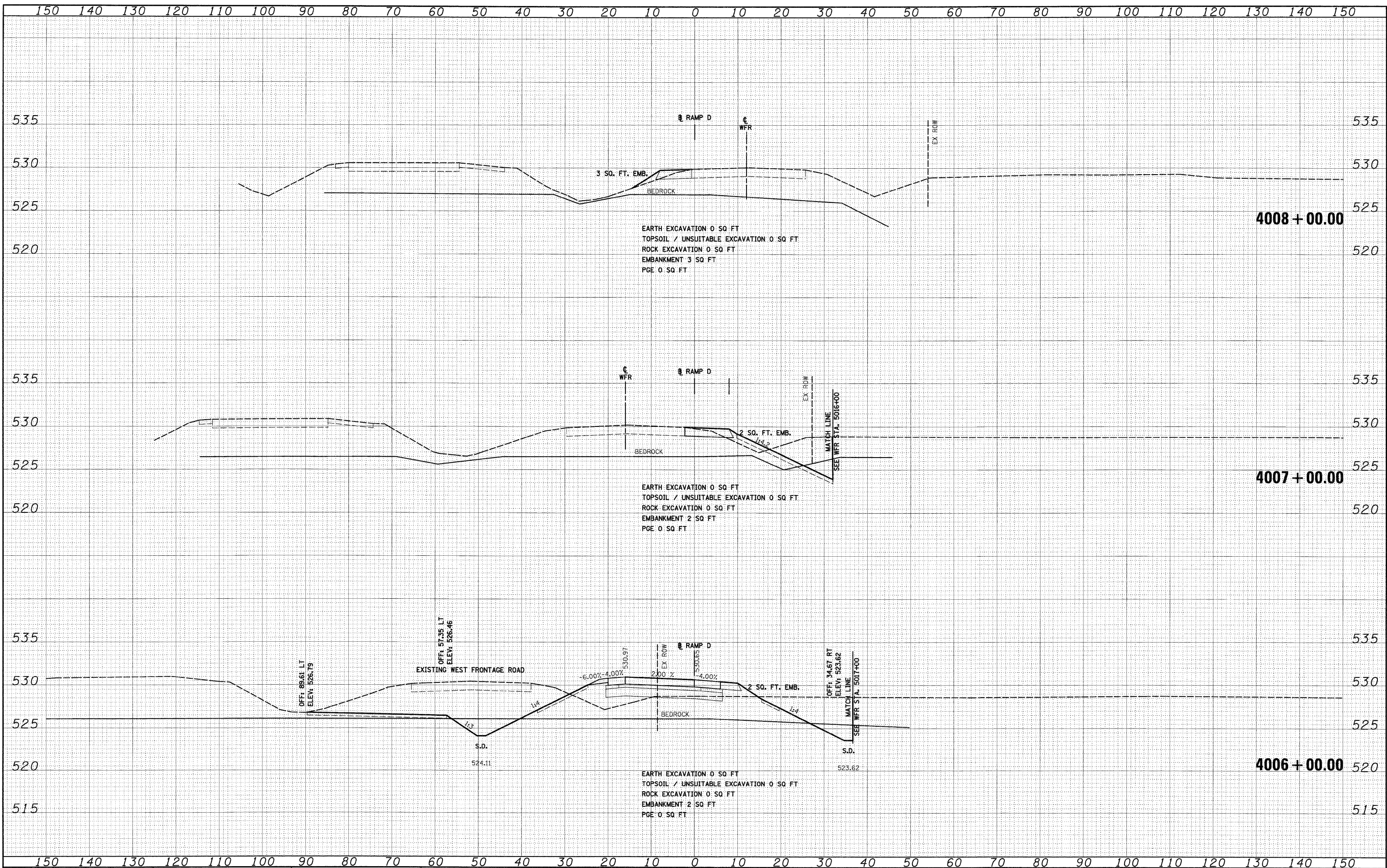
SCALE: 1"=10'H; 1"=5'V SHEET NO. 1 OF 1 SHEETS STA. 6077+00.00 TO STA. 6079+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	365
CONTRACT NO. 60C31			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

FINAL

DATE	
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NOTE BOOK	
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NOTE BOOK	
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FILE NAME = D:\62\31-SH1-XSH117.dgn
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DESIGNED	-	TRK	REVISED	-
DRAWN	-	TRK	REVISED	-
CHECKED	-	DLT	REVISED	-
DATE	-	12/18/09	REVISED	-

PLLOT SCALE	=	1:10
PLLOT DATE	=	12/11/2009

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 1 RAMP D CROSS SECTIONS

SCALE: 1"=10'H; 1"=5'V SHEET NO. 1 OF 2 SHEETS STA. 4006+00.00 TO STA. 4008+00.00

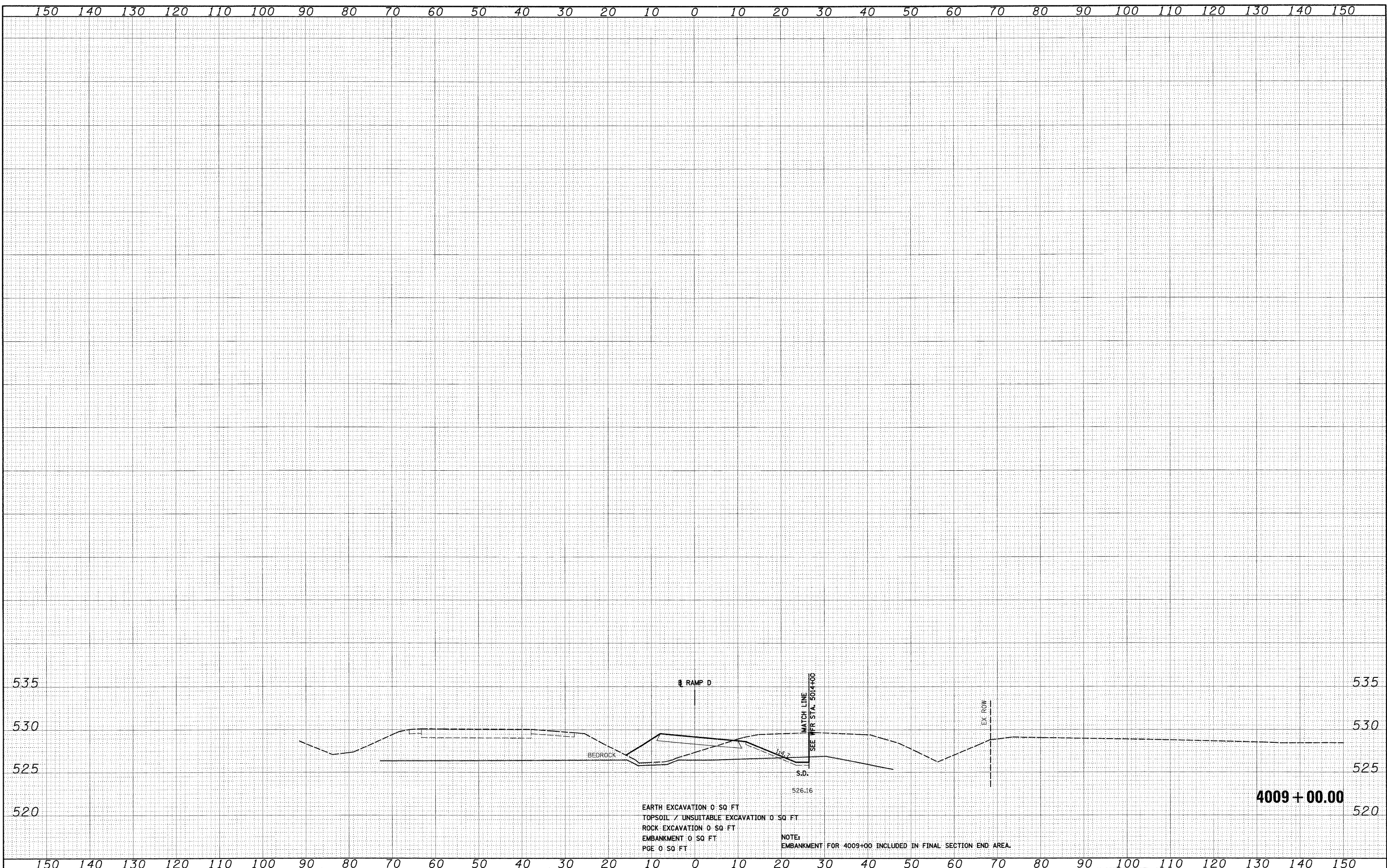
F.A.1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	366
CONTRACT NO. 60C31				

FINAL

FINAL SURVEY	BY	DATE
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NOTE BOOK		
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ORIGINAL SURVEY	BY	DATE
SURVEYED		
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NOTE BOOK		
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EARTH EXCAVATION 0 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 0 SQ FT
 ROCK EXCAVATION 0 SQ FT
 EMBANKMENT 0 SQ FT
 PGE 0 SQ FT

NOTE:
 EMBANKMENT FOR 4009+00 INCLUDED IN FINAL SECTION END AREA.

FILE NAME = D:\60C31-SHT-XSSHT17.dgn

USER NAME = TKluegel
 PLOT SCALE = 1:10
 PLOT DATE = 12/11/2009

DESIGNED - TRK
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

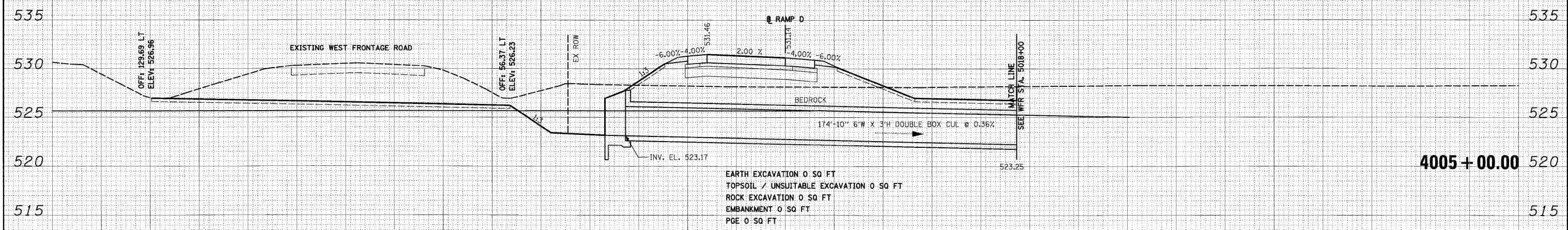
STAGE 1 RAMP D CROSS SECTIONS

SCALE: 1"=10'H; 1"=5'V SHEET NO. 2 OF 2 SHEETS STA. 4009+00.00 TO STA. 4009+00.00

F.A.1 RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 367
CONTRACT NO. 60C31			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

FINAL

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



4005 + 00.00

FINAL SURVEY	BY	DATE
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NOTE BOOK		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS CHECKED		

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 190 East Randolph Street, Chicago, Illinois 60601

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

FILE NAME =	D:\60C31-SHT-X5SHT27.dgn
USER NAME =	Tklu@eaj
DESIGNED -	TRK
DRAWN -	TRK
CHECKED -	DLT
DATE -	12/18/09

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1A RAMP D CROSS SECTIONS

SCALE: 1"=10'H; 1"=5'V SHEET NO. 1 OF 3 SHEETS STA. 4004+00.00 TO STA. 4005+00.00

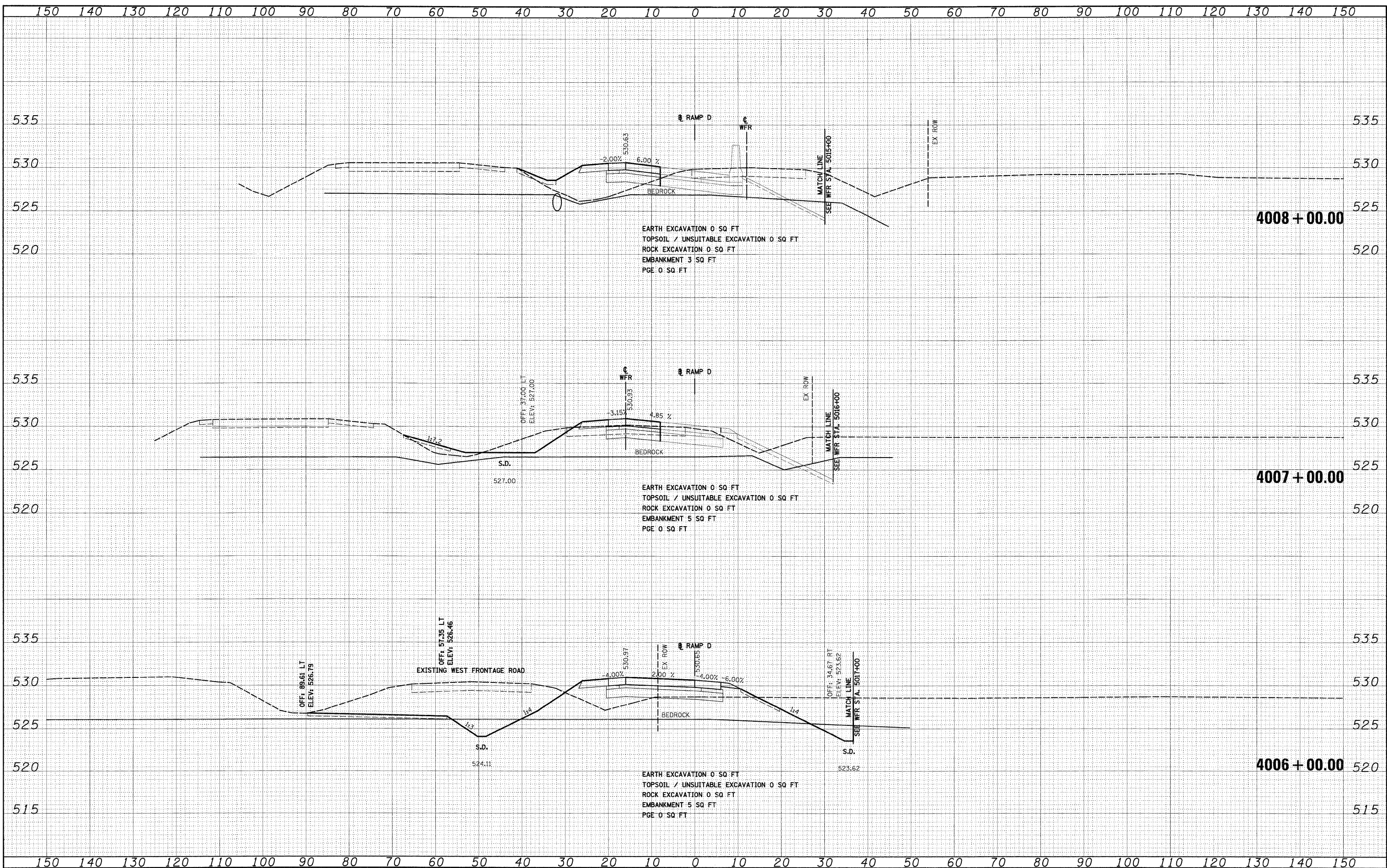
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	368
CONTRACT NO. 60C31				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

FINAL

DATE	
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FINAL SURVEY	
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NOTE BOOK	
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DATE	
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ORIGINAL SURVEY	
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NOTE BOOK	
AREAS CHECKED	
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	DATE - 12/18/09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 1A RAMP D CROSS SECTIONS

SCALE: 1"=10'H; 1"=5'V SHEET NO. 2 OF 3 SHEETS STA. 4006+00.00 TO STA. 4008+00.00

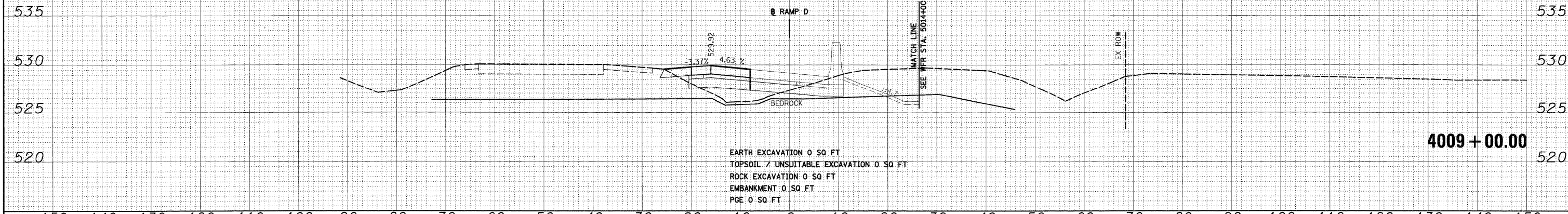
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	369
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL

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

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

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



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 100 East Randolph Street Chicago, Illinois 60601

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CHECKED -	DLT
DATE -	12/18/09
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PLLOT SCALE =	1:10
PLLOT DATE =	12/15/2009

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STAGE 1A RAMP D CROSS SECTIONS

SCALE: 1"=10'H; 1"=5'V SHEET NO. 3 OF 3 SHEETS STA. 4009+00.00 TO STA. 4009+00.00

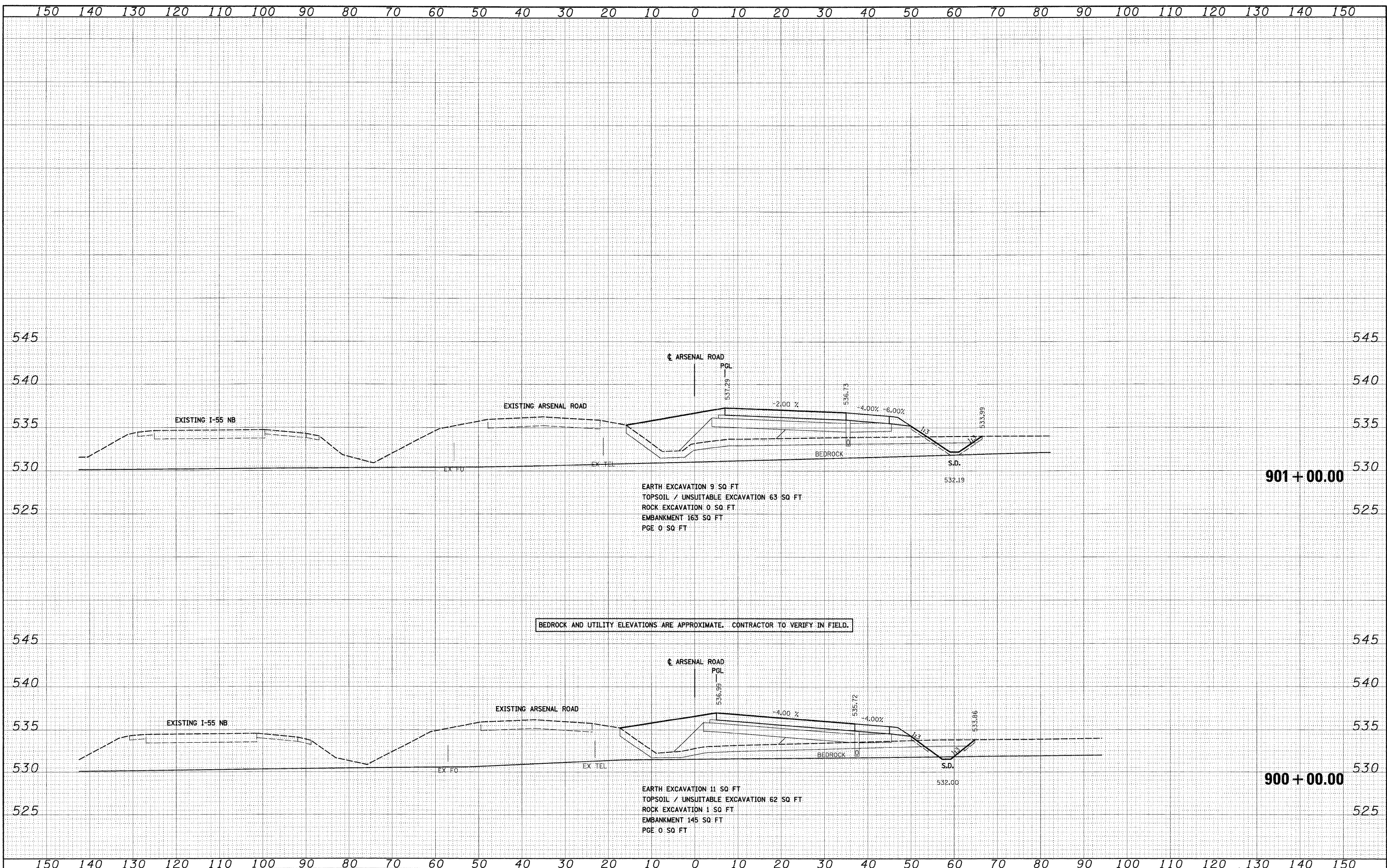
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	370
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL

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

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 Engineers / Architects
 100 East Randolph Street, Chicago, Illinois 60601



EARTH EXCAVATION 9 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 63 SQ FT
 ROCK EXCAVATION 0 SQ FT
 EMBANKMENT 163 SQ FT
 PGE 0 SQ FT

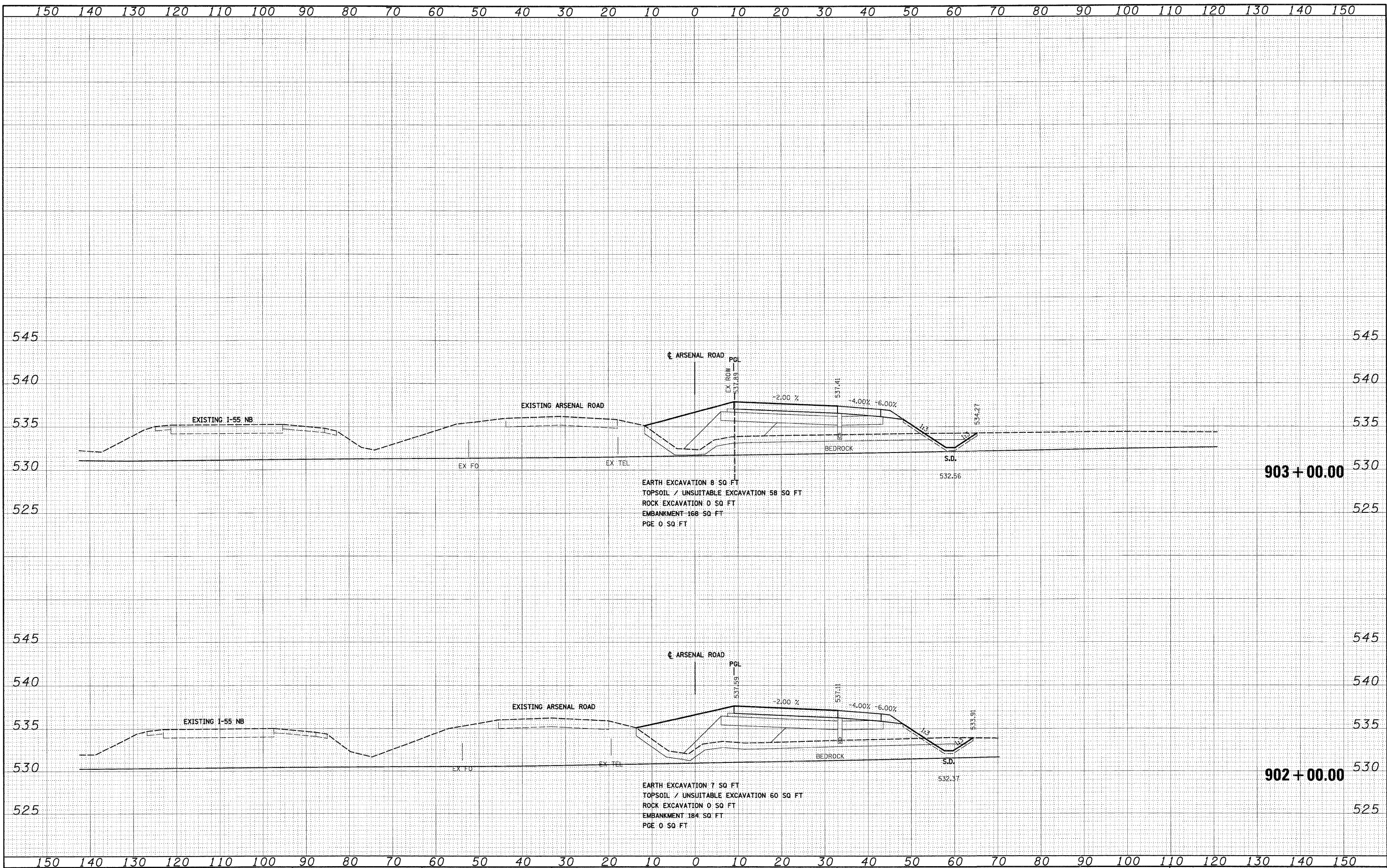
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 TOPSOIL / UNSUITABLE EXCAVATION 62 SQ FT
 ROCK EXCAVATION 1 SQ FT
 EMBANKMENT 145 SQ FT
 PGE 0 SQ FT

BEDROCK AND UTILITY ELEVATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY IN FIELD.

FILE NAME = D:\60C31-SHT-XSSHT01.dgn	USER NAME = TKluuge1	DESIGNED - TRK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARSENAL ROAD CROSS SECTIONS	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 371
PLOT SCALE = 1/18	CHECKED - DLT	REVISED -	SCALE: 1"=10'H; 1"=5'V SHEET NO. 1 OF 11 SHEETS STA. 900+00.00 TO STA. 901+00.00			FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT			
PLOT DATE = 12/15/2009	DATE - 12/18/09	REVISED -	CONTRACT NO. 60C31							

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



EARTH EXCAVATION 8 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 58 SQ FT
 ROCK EXCAVATION 0 SQ FT
 EMBANKMENT 168 SQ FT
 PGE 0 SQ FT

EARTH EXCAVATION 7 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 60 SQ FT
 ROCK EXCAVATION 0 SQ FT
 EMBANKMENT 184 SQ FT
 PGE 0 SQ FT

FILE NAME = D:\60C31-SHT-XSSH201.dgn

USER NAME = TKluogel
 DESIGNED - TRK
 DRAWN - TRK
 CHECKED - DLT
 DATE - 12/18/09

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARSENAL ROAD CROSS SECTIONS

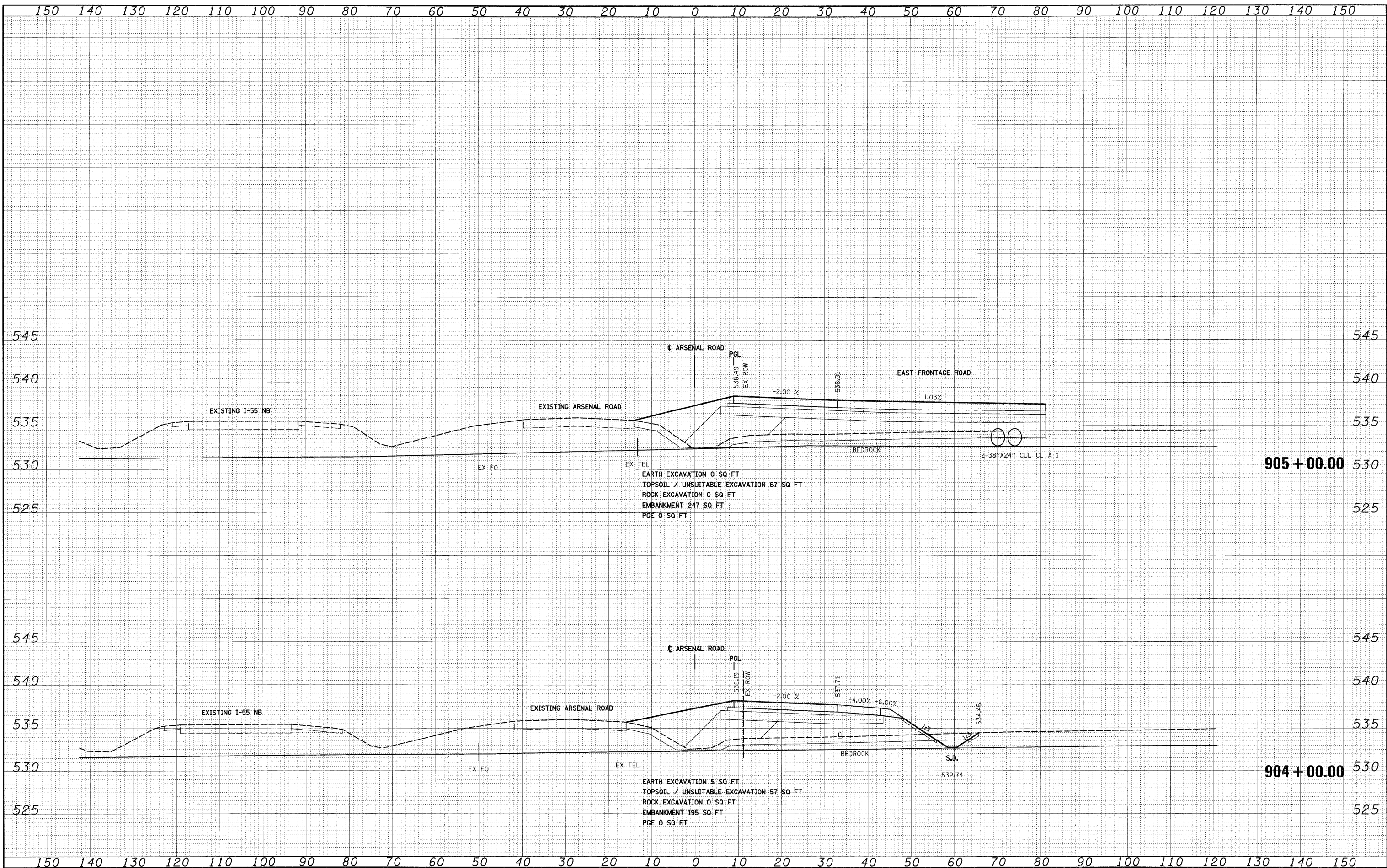
SCALE: 1"=10'H; 1"=5'V SHEET NO. 2 OF 11 SHEETS STA. 902+00.00 TO STA. 903+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	372
CONTRACT NO. 60C31			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

BY	DATE
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NOTE BOOK	
AREAS CHECKED	

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SURVEYED	
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NOTE BOOK	
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McDonough Associates Inc.
 Engineers/Architects
 138 East Randolph Street, Chicago, Illinois 60601



FILE NAME = 0160C31-SHT-XSSHT01.dgn
 USER NAME = TKluengel

DESIGNED -	TRK	REVISED -	
DRAWN -	TRK	REVISED -	
CHECKED -	DLT	REVISED -	
DATE -	12/18/09	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

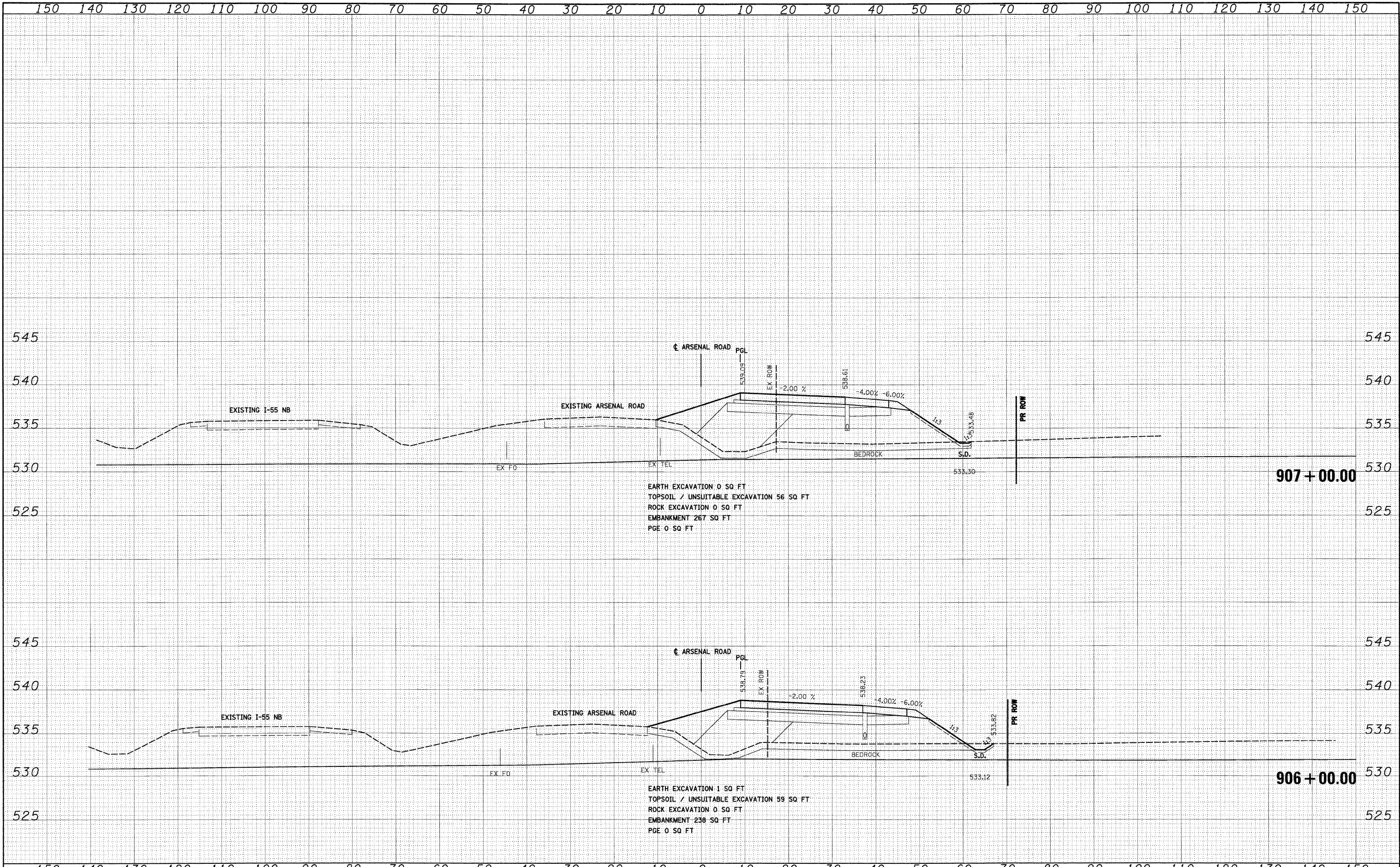
ARSENAL ROAD CROSS SECTIONS
 SCALE: 1"=10'H; 1"=5'V SHEET NO. 3 OF 11 SHEETS STA. 904+00.00 TO STA. 905+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	373
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL

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ORIGINAL SURVEY	
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NOTE BOOK	
AREAS CHECKED	
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EARTH EXCAVATION 0 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 56 SQ FT
 ROCK EXCAVATION 0 SQ FT
 EMBANKMENT 267 SQ FT
 PGE 0 SQ FT

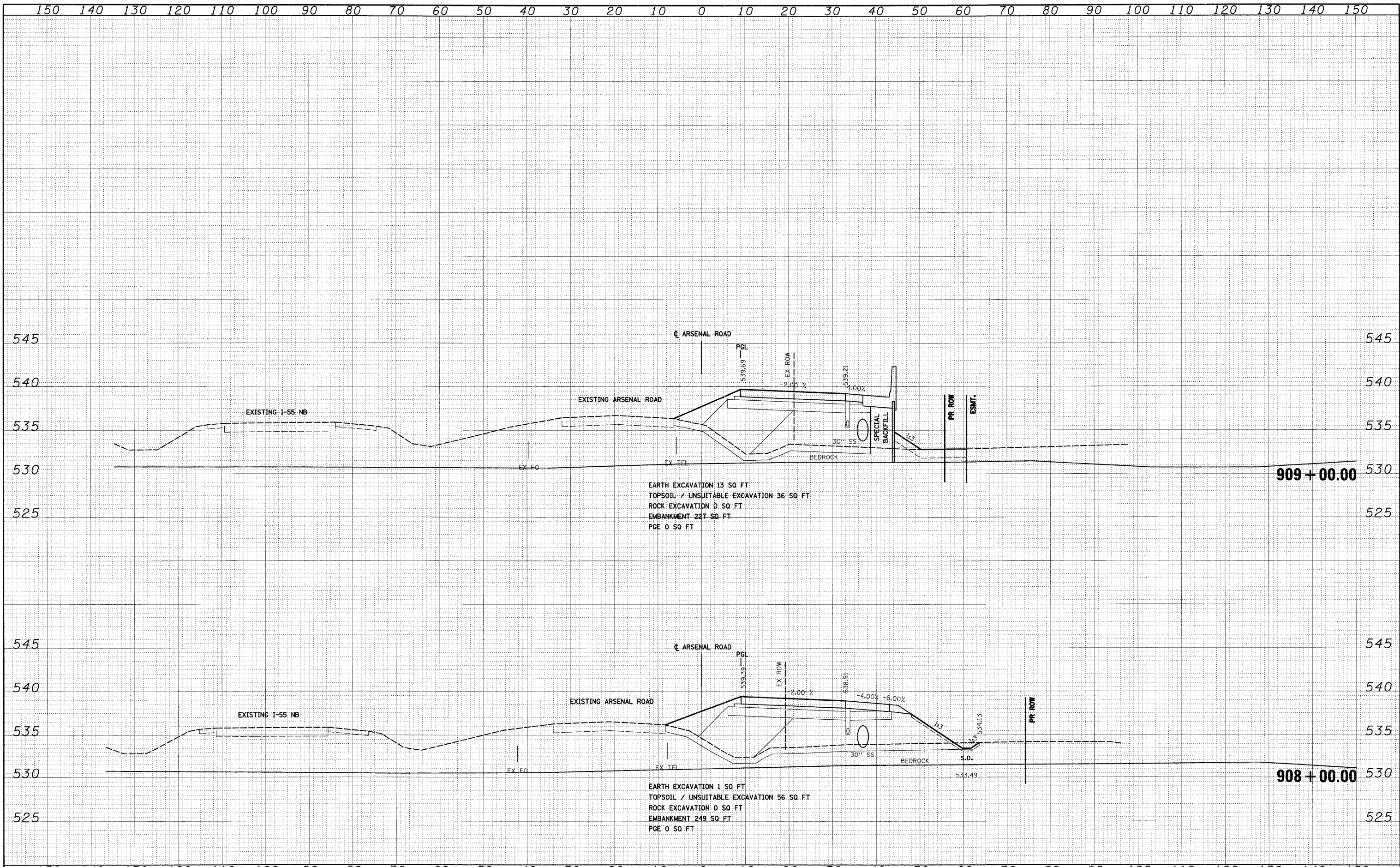
EARTH EXCAVATION 1 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 99 SQ FT
 ROCK EXCAVATION 0 SQ FT
 EMBANKMENT 238 SQ FT
 PGE 0 SQ FT

FILE NAME = D:\60C31-SHT-XSSH01.dgn	USER NAME = TKLuegel	DESIGNED - TRK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARSENAL ROAD CROSS SECTIONS	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 374	
PLOT SCALE = 1:10	DRAWN - TRK	REVISED -	SCALE: 1"=10'H; 1"=5'V			SHEET NO. 4 OF 11 SHEETS	STA. 906+00.00 TO STA. 907+00.00	CONTRACT NO. 60C31		FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT
PLOT DATE = 12/15/2009	CHECKED - DLT	REVISED -									
	DATE - 12/18/09	REVISED -									

FINAL

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



EARTH EXCAVATION 13 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 36 SQ FT
 ROCK EXCAVATION 0 SQ FT
 EMBANKMENT 227 SQ FT
 PGE 0 SQ FT

EARTH EXCAVATION 1 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 56 SQ FT
 ROCK EXCAVATION 0 SQ FT
 EMBANKMENT 249 SQ FT
 PGE 0 SQ FT

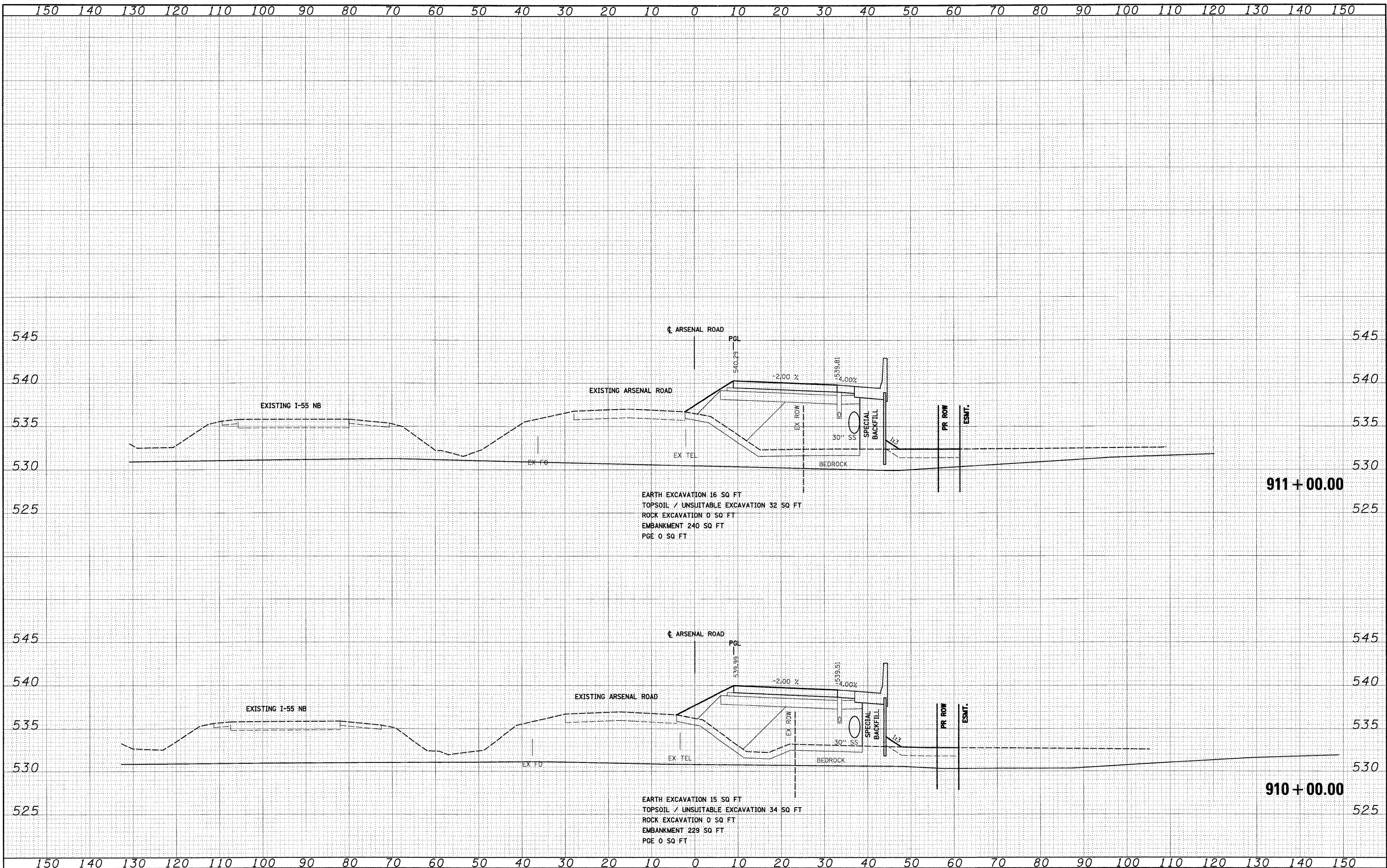
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PLOT SCALE = 1:10	CHECKED - DLT	DATE - 12/18/09	REVISED -			SCALE: 1"=10'H; 1"=5'V	SHEET NO. 5 OF 11 SHEETS	STA. 908+00.00 TO STA. 909+00.00	FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT	CONTRACT NO. 60C31
PLOT DATE = 12/15/2009	DATE - 12/18/09	REVISED -	REVISED -								

FINAL

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FILE NAME =	D:\60C31-SHT-XSSH01.dgn
USER NAME =	TKluegel
DESIGNED -	TRK
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CHECKED -	DLT
DATE -	12/18/09

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REVISIED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ARSENAL ROAD CROSS SECTIONS
 SCALE: 1"=10'H; 1"=5'V SHEET NO. 6 OF 11 SHEETS STA. 910+00.00 TO STA. 911+00.00

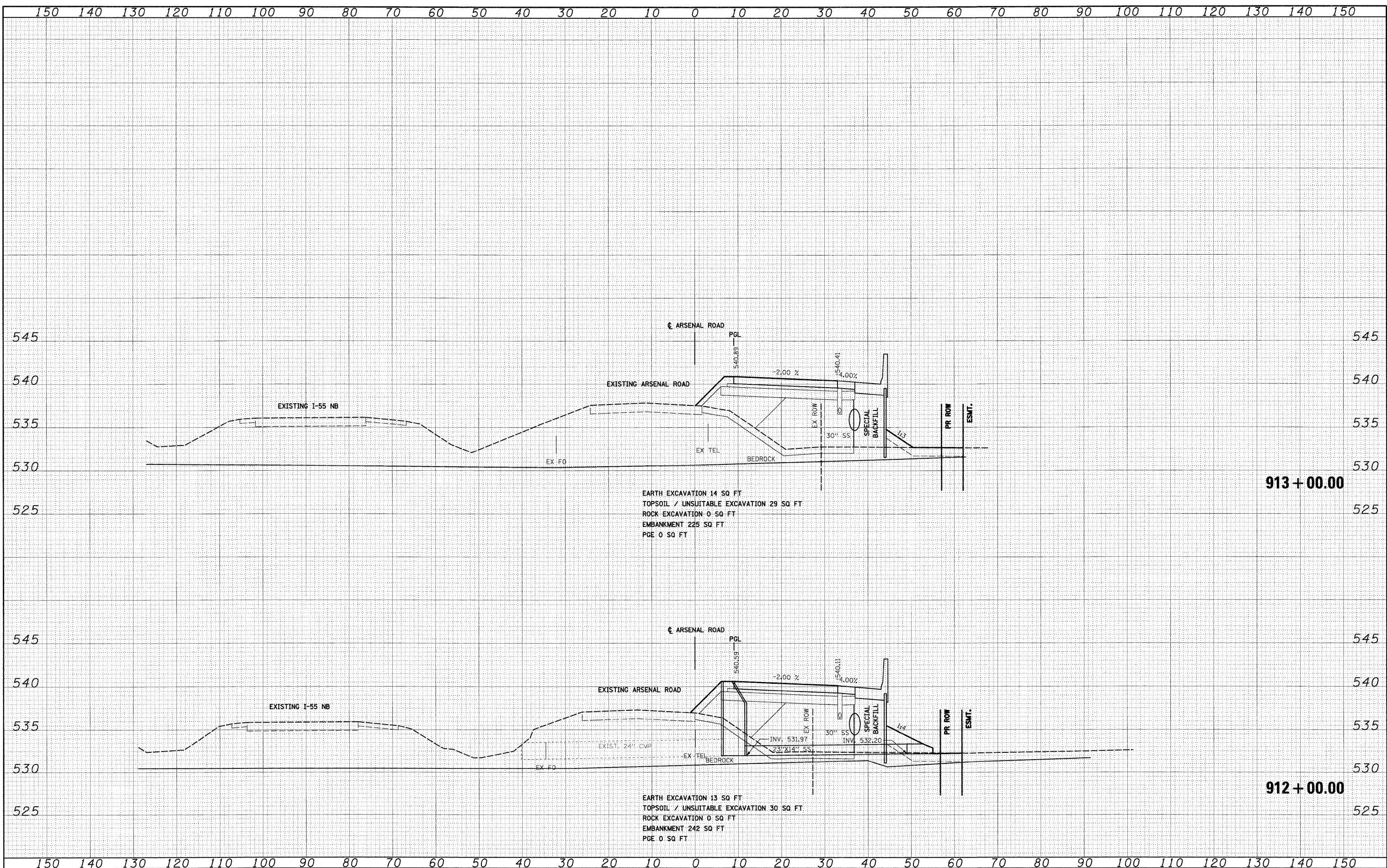
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	376
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

FINAL

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

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 Engineers/Architects
 130 East Randolph Street, Chicago, Illinois 60601



EARTH EXCAVATION 14 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 29 SQ FT
 ROCK EXCAVATION 0 SQ FT
 EMBANKMENT 225 SQ FT
 PGE 0 SQ FT

EARTH EXCAVATION 13 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 30 SQ FT
 ROCK EXCAVATION 0 SQ FT
 EMBANKMENT 242 SQ FT
 PGE 0 SQ FT

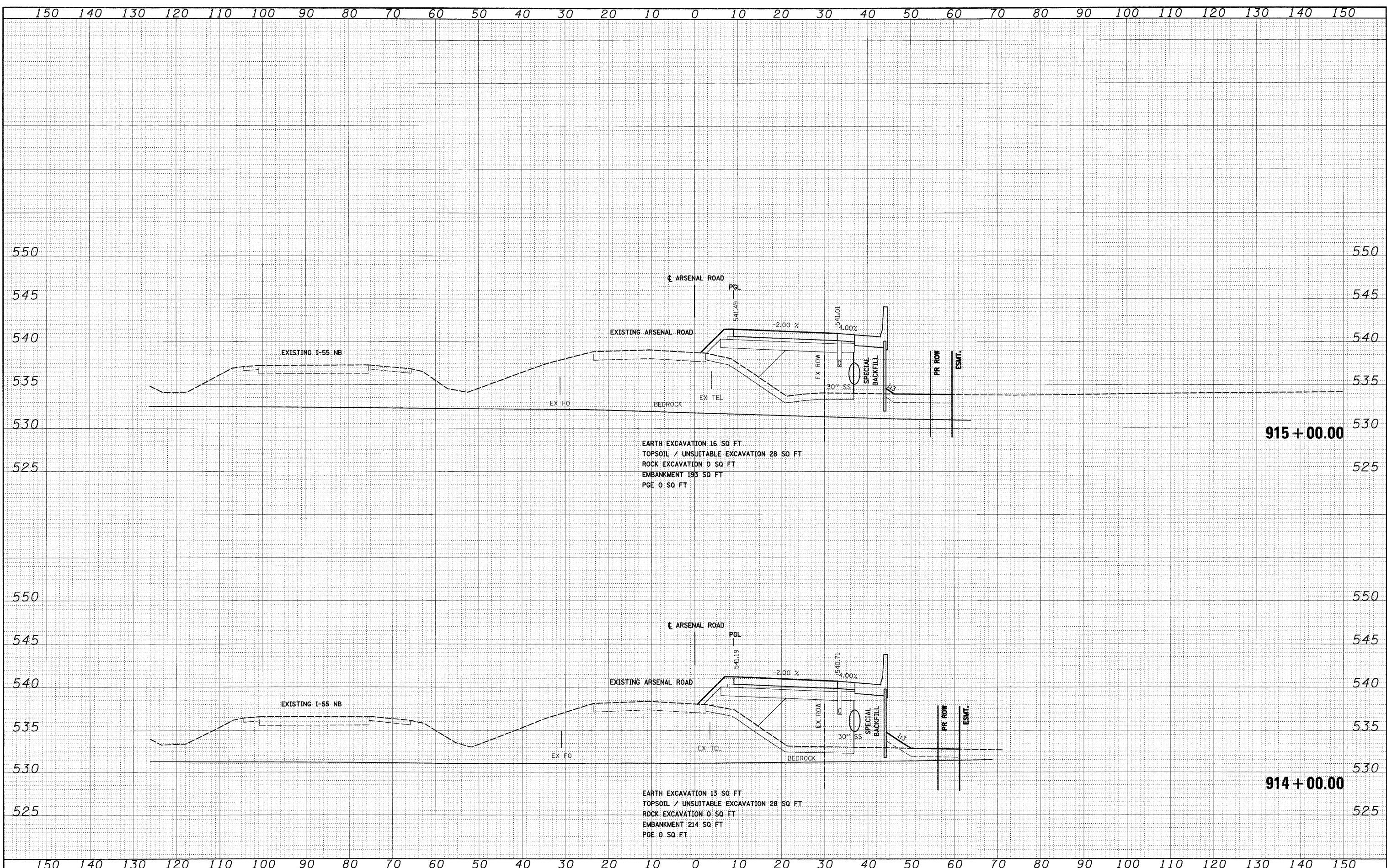
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PLOT SCALE = 1:10	PLOT DATE = 12/15/2009	CHECKED - DLT	REVISED -		SCALE: 1"=10'H; 1/4"=5'W	SHEET NO. 7 OF 11 SHEETS	STA. 912+00.00 TO STA. 913+00.00	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		CONTRACT NO. 60C31		
		DATE - 12/18/09	REVISED -									

FINAL

FINAL SURVEY	DATE
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NOTE BOOK	
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ORIGINAL SURVEY	DATE
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NOTE BOOK	
AREAS	
AREAS CHECKED	
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EARTH EXCAVATION 16 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 28 SQ FT
 ROCK EXCAVATION 0 SQ FT
 EMBANKMENT 195 SQ FT
 PGE 0 SQ FT

EARTH EXCAVATION 13 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 28 SQ FT
 ROCK EXCAVATION 0 SQ FT
 EMBANKMENT 214 SQ FT
 PGE 0 SQ FT

FILE NAME = 0160C31-SHT-XSSHT01.dgn
 USER NAME = TKluegel

DESIGNED - TRK
 DRAWN - TRK
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 DATE - 12/18/09

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ARSENAL ROAD CROSS SECTIONS

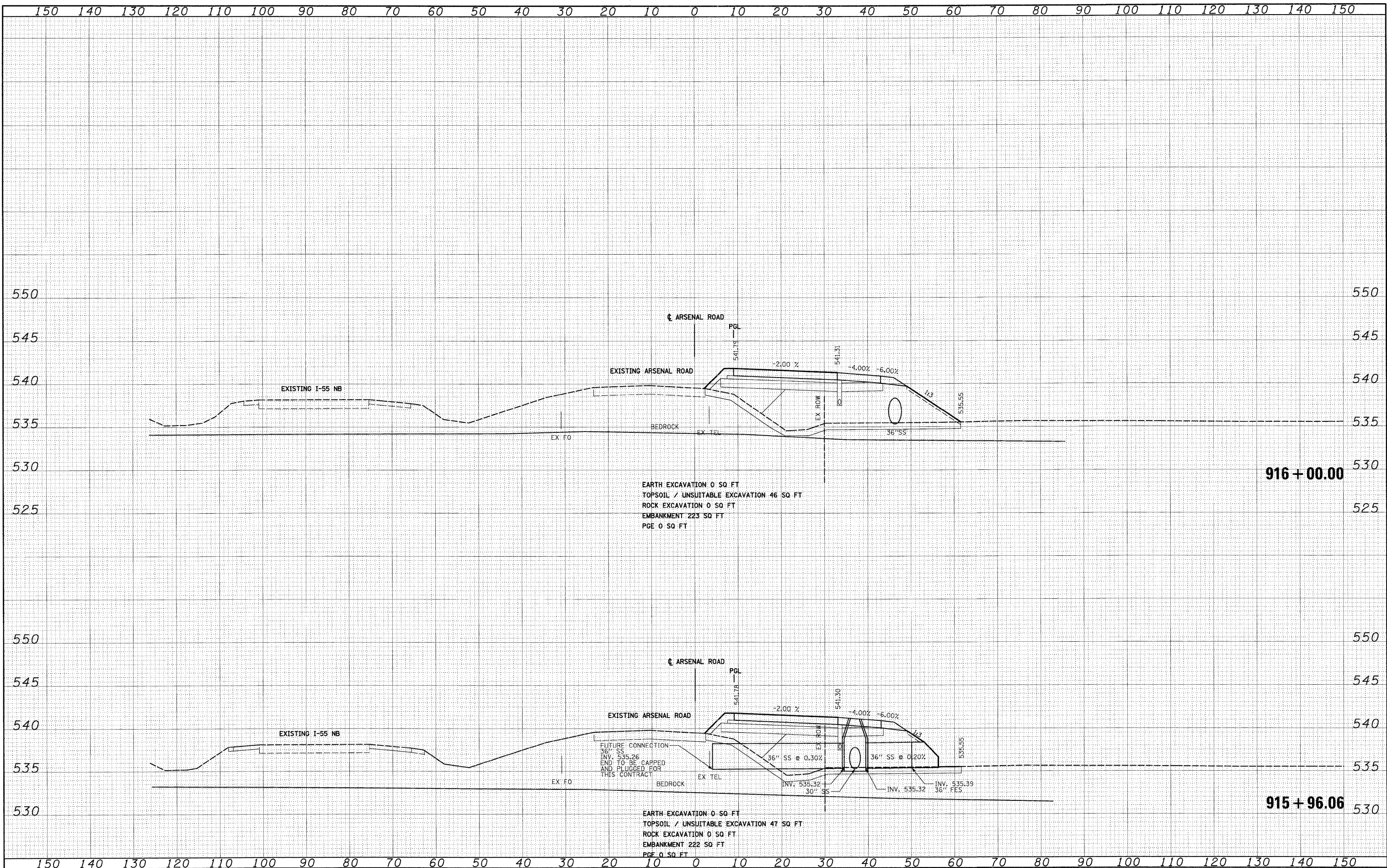
SCALE: 1"=10'H; 1"=5'V SHEET NO. 8 OF 11 SHEETS STA. 914+00.00 TO STA. 915+00.00

F.A.1	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RTE. 55	(99-1&2)AC-3	WILL	524	378
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

BY	DATE
SURVEYED	
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NOTE BOOK	
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NOTE BOOK	
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Engineers/Architects
138 East Randolph Street, Chicago, Illinois 60601



FILE NAME =	USER NAME = TKJuegel
D160C31-SHT-XSSH101.dgn	DESIGNED - TRK
	DRAWN - TRK
	CHECKED - DLT
	DATE - 12/18/09
	REVISED -
	REVISED -
	REVISED -

PLT SCALE = 1:10	DESIGNED - TRK
PLT DATE = 12/15/2009	DRAWN - TRK
	CHECKED - DLT
	DATE - 12/18/09
	REVISED -
	REVISED -
	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ARSENAL ROAD CROSS SECTIONS

SCALE: 1"=10'H 1"=5'V SHEET NO. 9 OF 11 SHEETS STA. 915+96.06 TO STA. 916+00.00

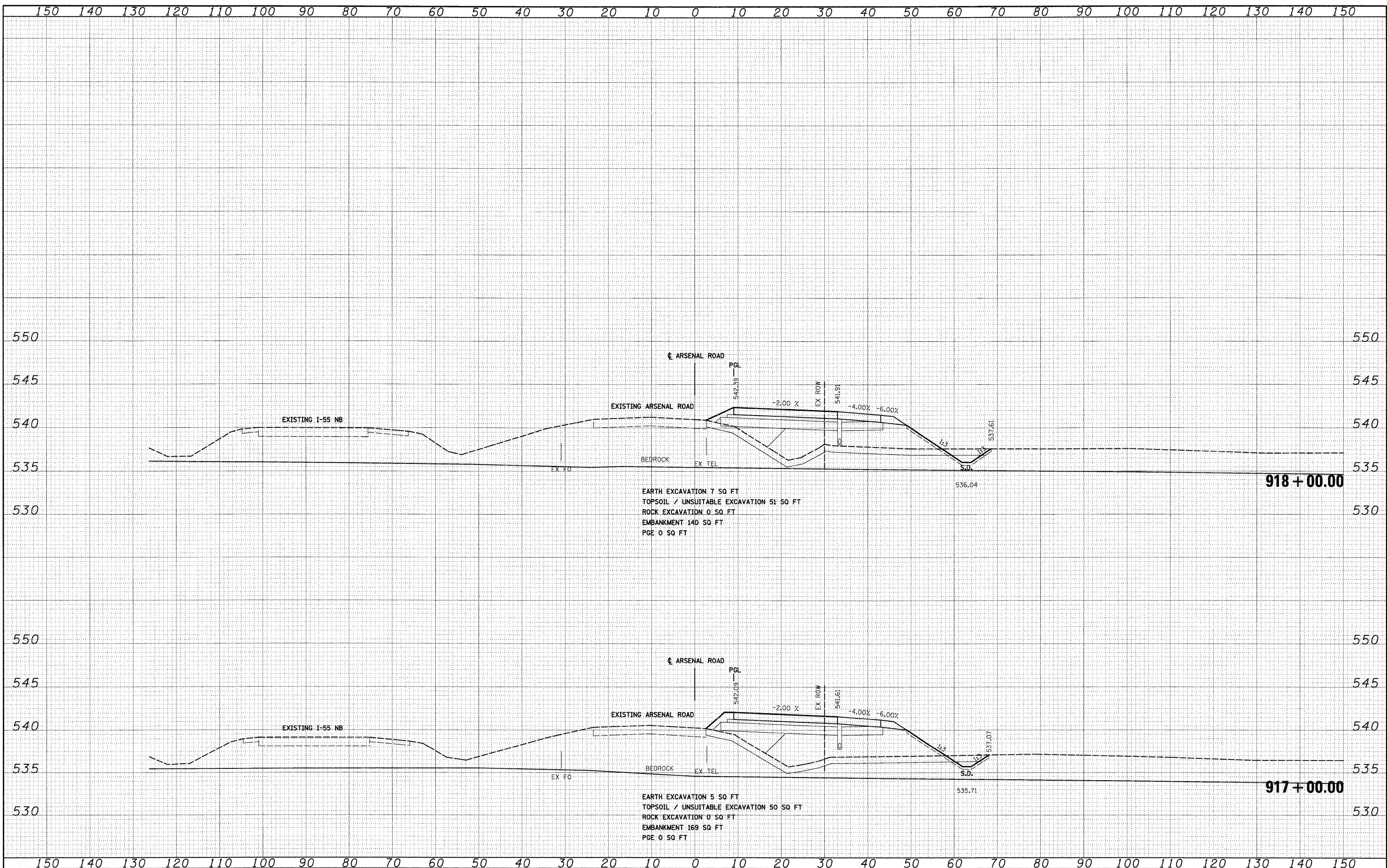
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	379
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL

FINAL SURVEY	BY	DATE
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ORIGINAL SURVEY	BY	DATE
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 139 East Madison Street, Chicago, Illinois 60601



FILE NAME = D:\60C31-SHT-XSSH1\01.dgn
 USER NAME = TKluogel

DESIGNED -	TRK	REVISED -	
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CHECKED -	DLT	REVISED -	
DATE -	12/18/09	REVISED -	

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PLLOT DATE =	12/15/2009

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ARSENAL ROAD CROSS SECTIONS

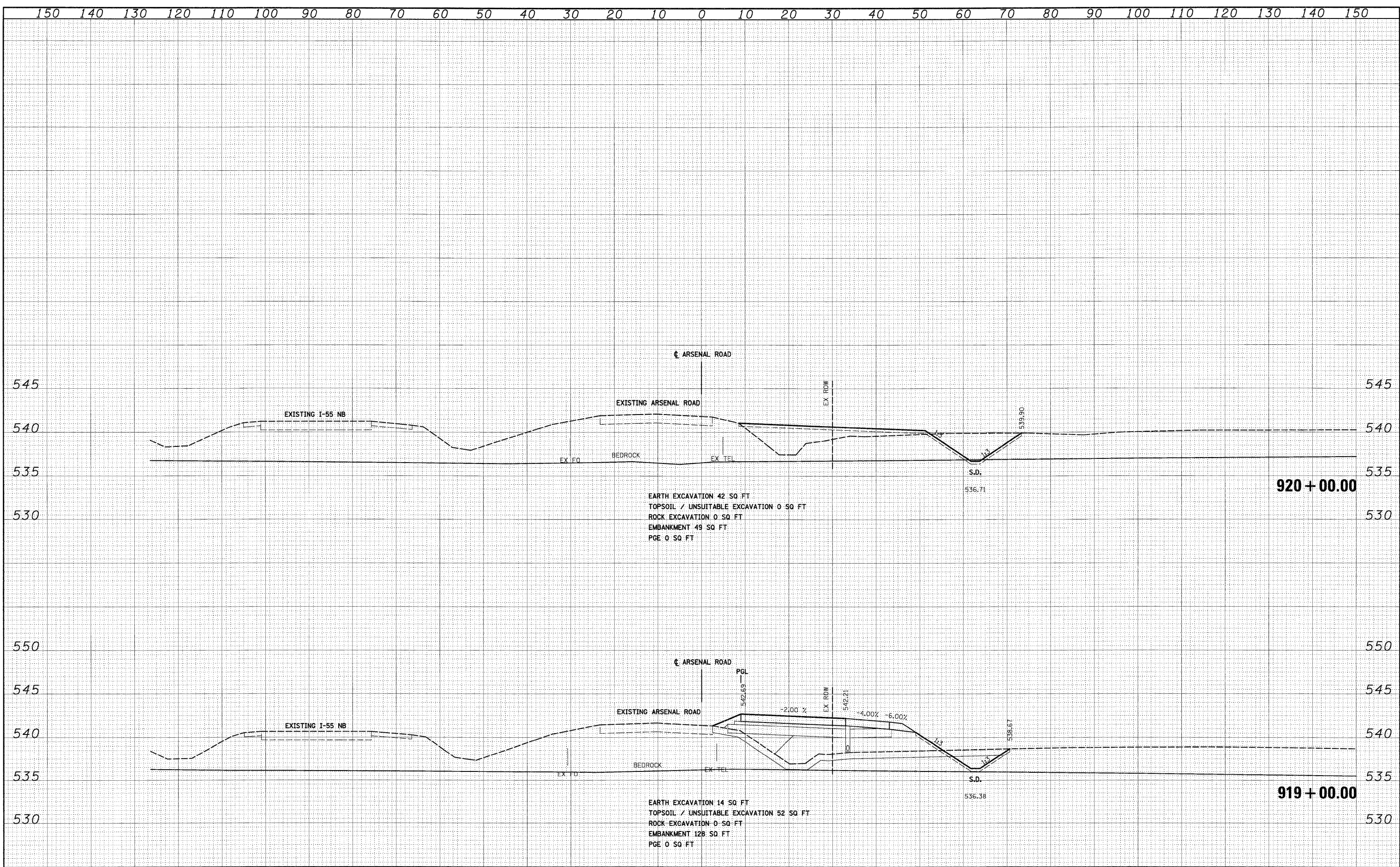
SCALE: 1"=10'H; 1"=5'V SHEET NO. 10 OF 11 SHEETS STA. 917+00.00 TO STA. 918+00.00

F.A.1	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	380
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
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NOTE BOOK		
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ORIGINAL SURVEY	BY	DATE
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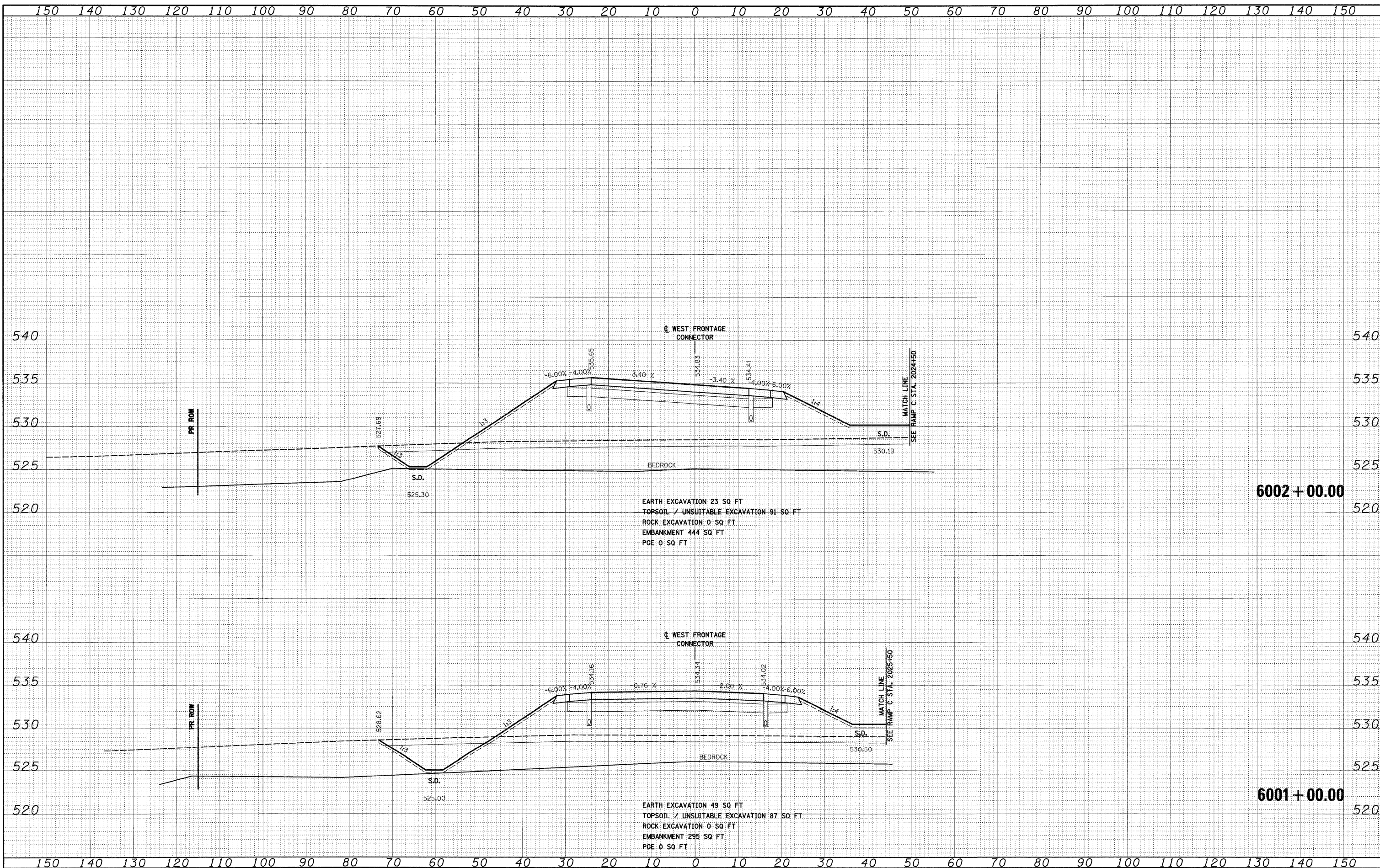
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	PLOT SCALE = 1:10	DRAWN - TRK	REVISED -		SCALE: 1"=10'H; 1"=5'V	SHEET NO. 11 OF 11 SHEETS	STA. 919+00.00 TO STA. 920+00.00	CONTRACT NO. 60C31				
	PLOT DATE = 12/15/2009	CHECKED - DLT	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
		DATE - 12/18/09	REVISED -									

FINAL

FINAL SURVEY	DATE
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NOTE BOOK	
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ORIGINAL SURVEY	DATE
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NOTE BOOK	
AREAS CHECKED	
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6002 + 00.00

EARTH EXCAVATION 23 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 91 SQ FT
 ROCK EXCAVATION 0 SQ FT
 EMBANKMENT 444 SQ FT
 PGE 0 SQ FT

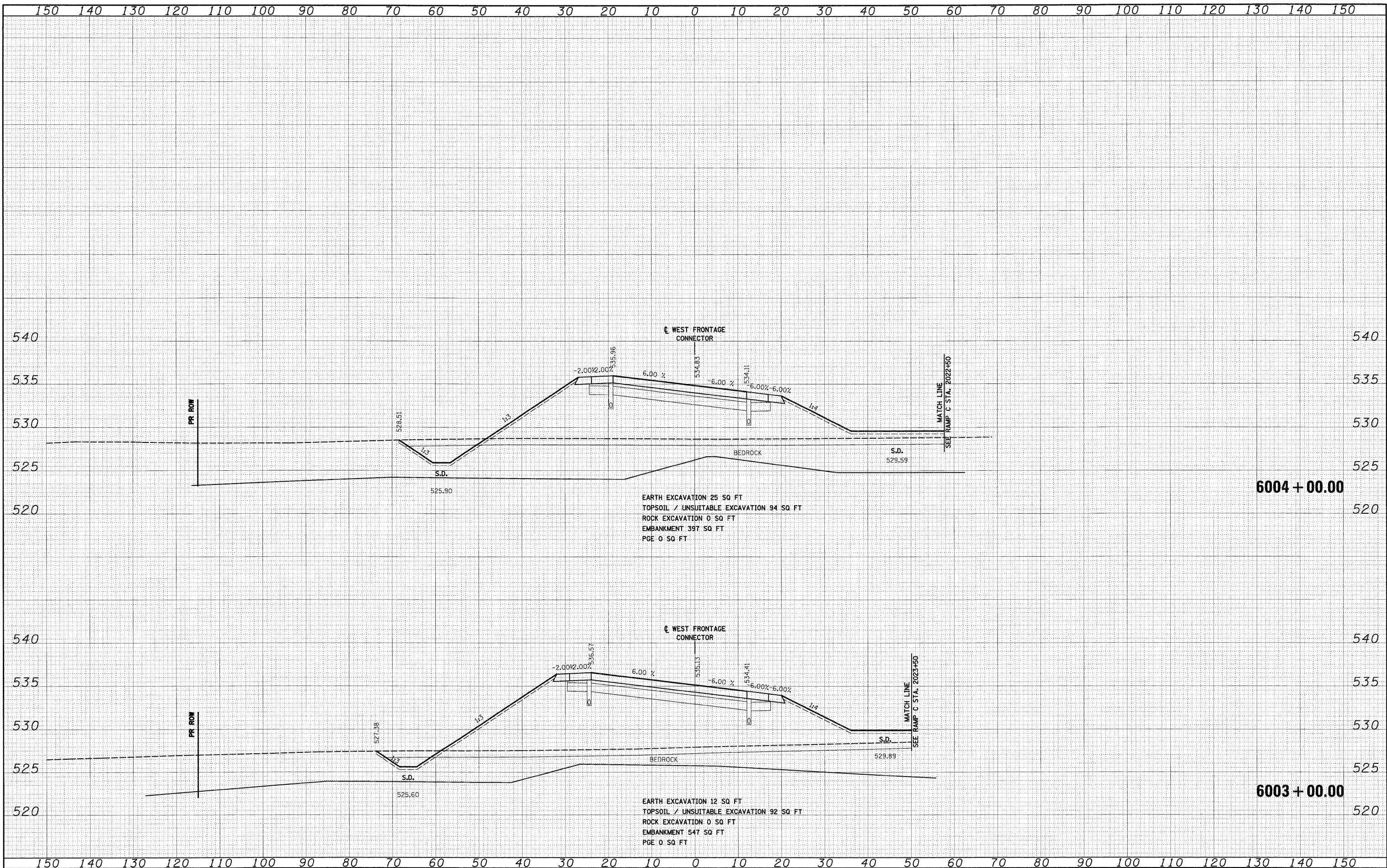
6001 + 00.00

EARTH EXCAVATION 49 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 87 SQ FT
 ROCK EXCAVATION 0 SQ FT
 EMBANKMENT 295 SQ FT
 PGE 0 SQ FT

FILE NAME = D:\60C31-SH-XSSH702.dgn	USER NAME = TKLuege1	DESIGNED - TRK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WEST FRONTAGE ROAD CONNECTOR	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 382
PLOT SCALE = 1:12	CHECKED - DLT	REVISED -	SCALE: 1"=10'H; 1"=5'V SHEET NO. 1 OF 34 SHEETS			STA. 6001+00.00 TO STA. 6002+00.00	CONTRACT NO. 60C31			
PLOT DATE = 12/15/2009	DATE - 12/18/09	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

FINAL SURVEY	BY	DATE
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ORIGINAL SURVEY	BY	DATE
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EARTH EXCAVATION 25 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 94 SQ FT
 ROCK EXCAVATION 0 SQ FT
 EMBANKMENT 397 SQ FT
 PGE 0 SQ FT

EARTH EXCAVATION 12 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 92 SQ FT
 ROCK EXCAVATION 0 SQ FT
 EMBANKMENT 547 SQ FT
 PGE 0 SQ FT

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DESIGNED -	TRK	REVISED -	
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DATE -	12/18/09	REVISED -	

PLLOT SCALE =	1:10
PLLOT DATE =	12/15/2029

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

WEST FRONTAGE ROAD CONNECTOR

SCALE: 1"=10'H; 1"=5'V SHEET NO. 2 OF 34 SHEETS STA. 6003+00.00 TO STA. 6004+00.00

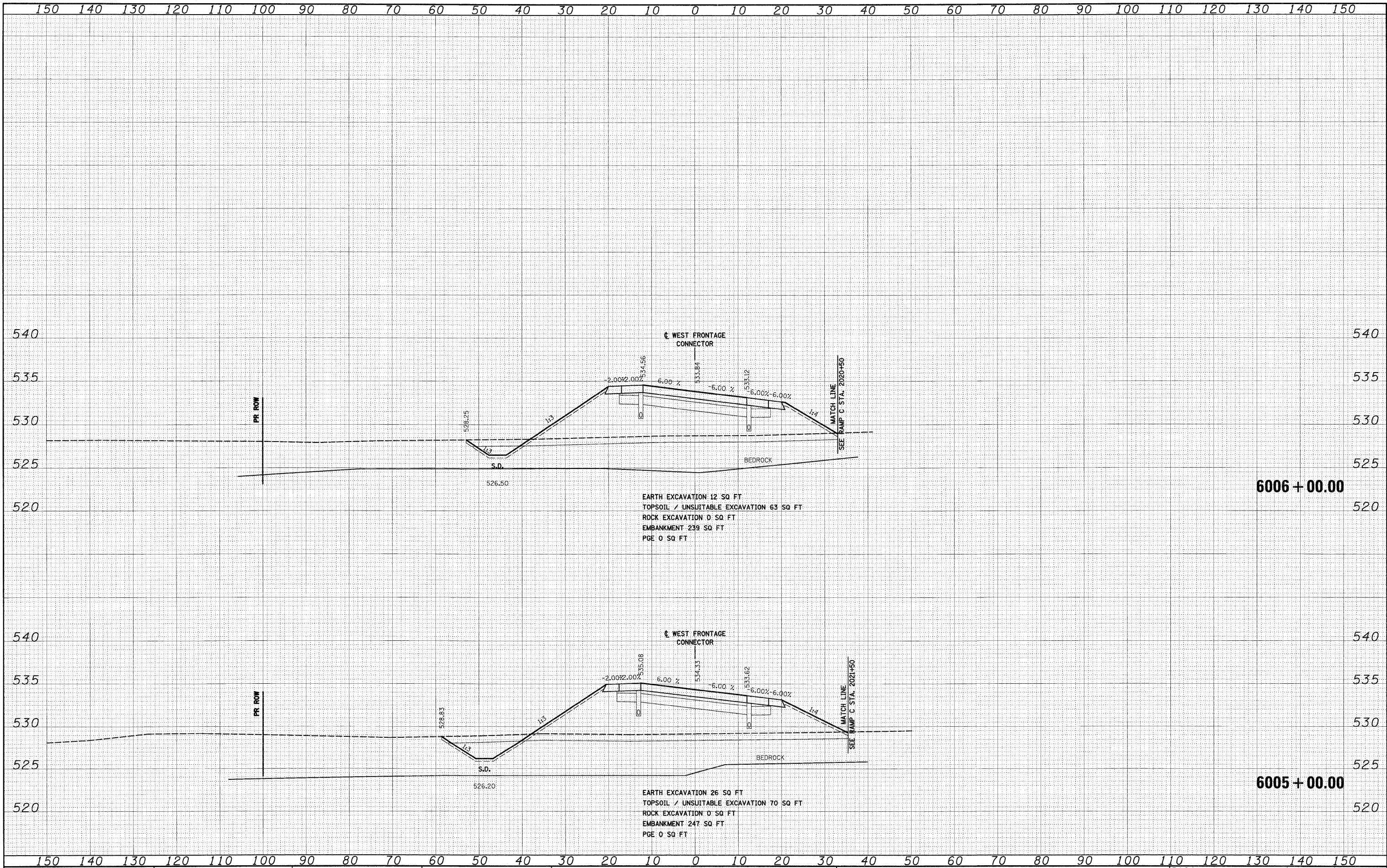
F.A.1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	383
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL

DATE	
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FINAL SURVEY	
NOTED	
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DESIGN	
CONSTRUCTION	
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DATE	
BY	
ORIGINAL SURVEY	
NOTED	
PLANNING	
DESIGN	
CONSTRUCTION	
NO.	

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 Engineers / Architects
 10 East Randolph Street Chicago, Illinois 60601



EARTH EXCAVATION 12 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 63 SQ FT
 ROCK EXCAVATION 0 SQ FT
 EMBANKMENT 239 SQ FT
 PGE 0 SQ FT

EARTH EXCAVATION 26 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 70 SQ FT
 ROCK EXCAVATION 0 SQ FT
 EMBANKMENT 247 SQ FT
 PGE 0 SQ FT

FILE NAME = D:\60C31-SHT-XSHT02.dgn

USER NAME = TKluogel
 PLOT SCALE = 1:10
 PLOT DATE = 12/15/2009

DESIGNED - TRK
 DRAWN - TRK
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

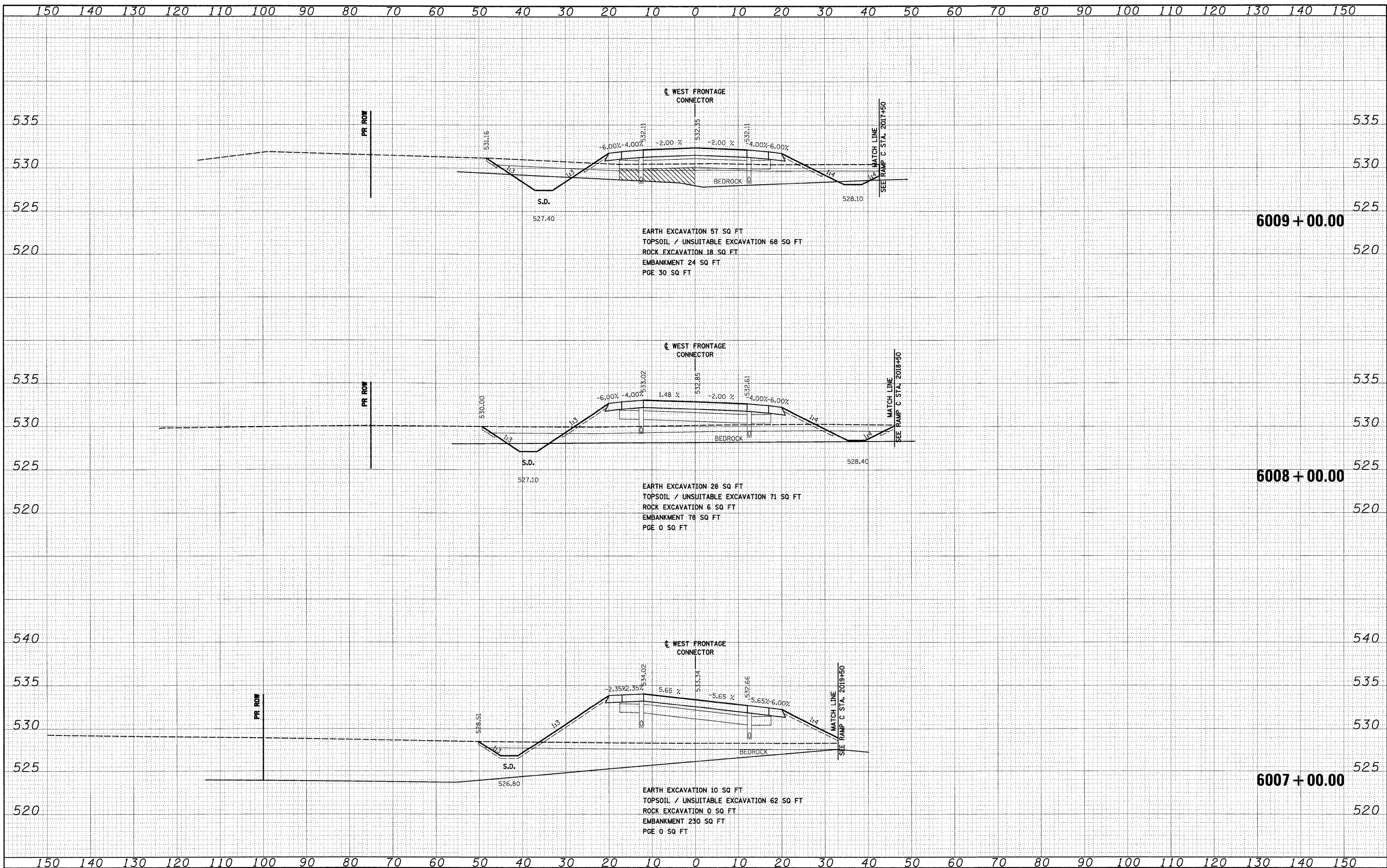
WEST FRONTAGE ROAD CONNECTOR

SCALE: 1"=10'H; 1"=5'V SHEET NO. 3 OF 34 SHEETS STA. 6005+00.00 TO STA. 6006+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	384
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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NOTE BOOK	
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NOTE BOOK	
AREAS CHECKED	
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FILE NAME = D:\60C31-SHT-XSSHT02.dgn

USER NAME = TKLuegel
 DESIGNED - TRK
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 CHECKED - DLT
 DATE - 12/18/09

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

WEST FRONTAGE ROAD CONNECTOR
 SCALE: 1"=10'H; 1"=5'V SHEET NO. 4 OF 34 SHEETS STA. 6007+00.00 TO STA. 6009+00.00

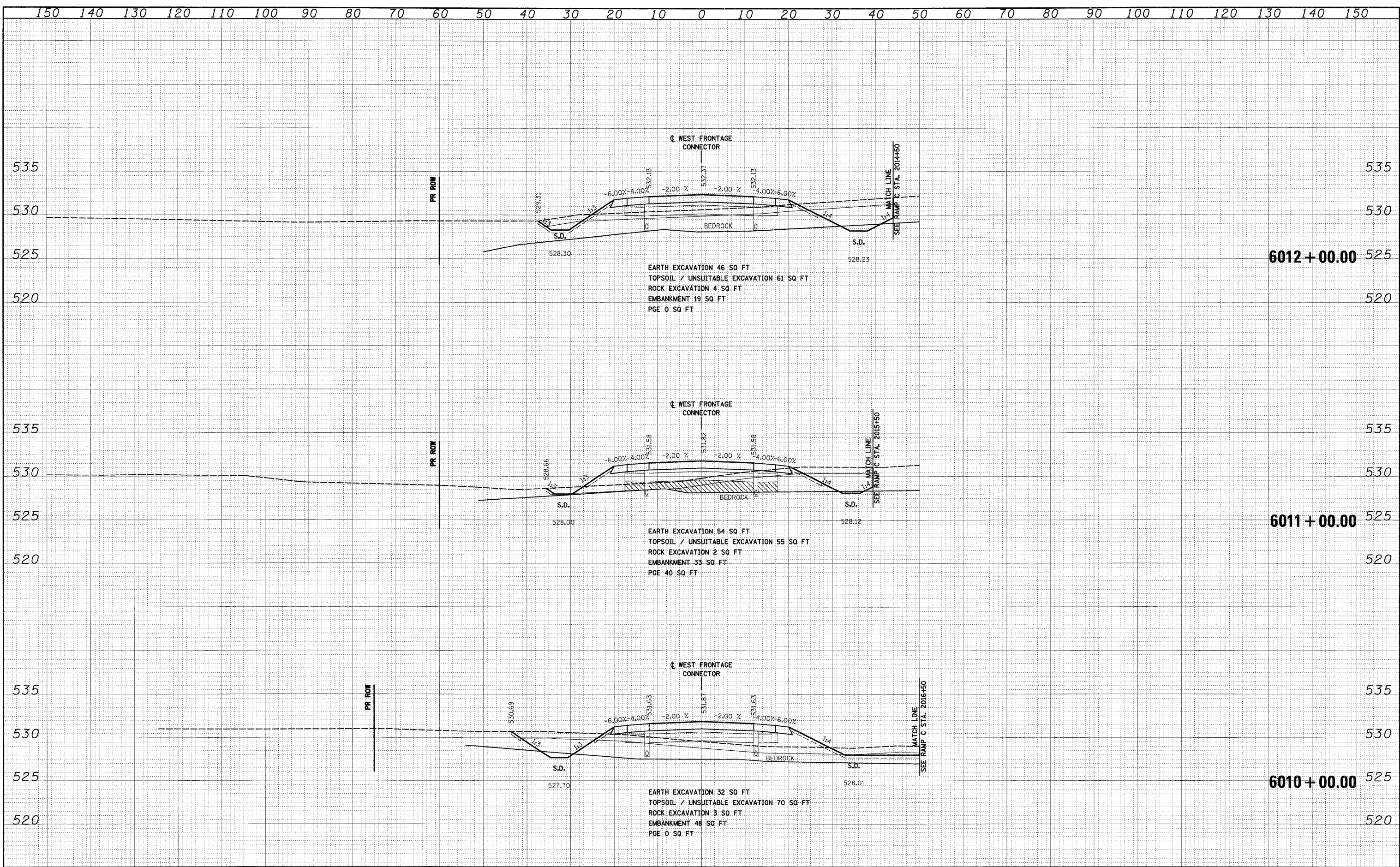
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	385
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL

DATE	
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FINAL SURVEY	
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NOTE BOOK	
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ORIGINAL SURVEY	
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AREAS CHECKED	
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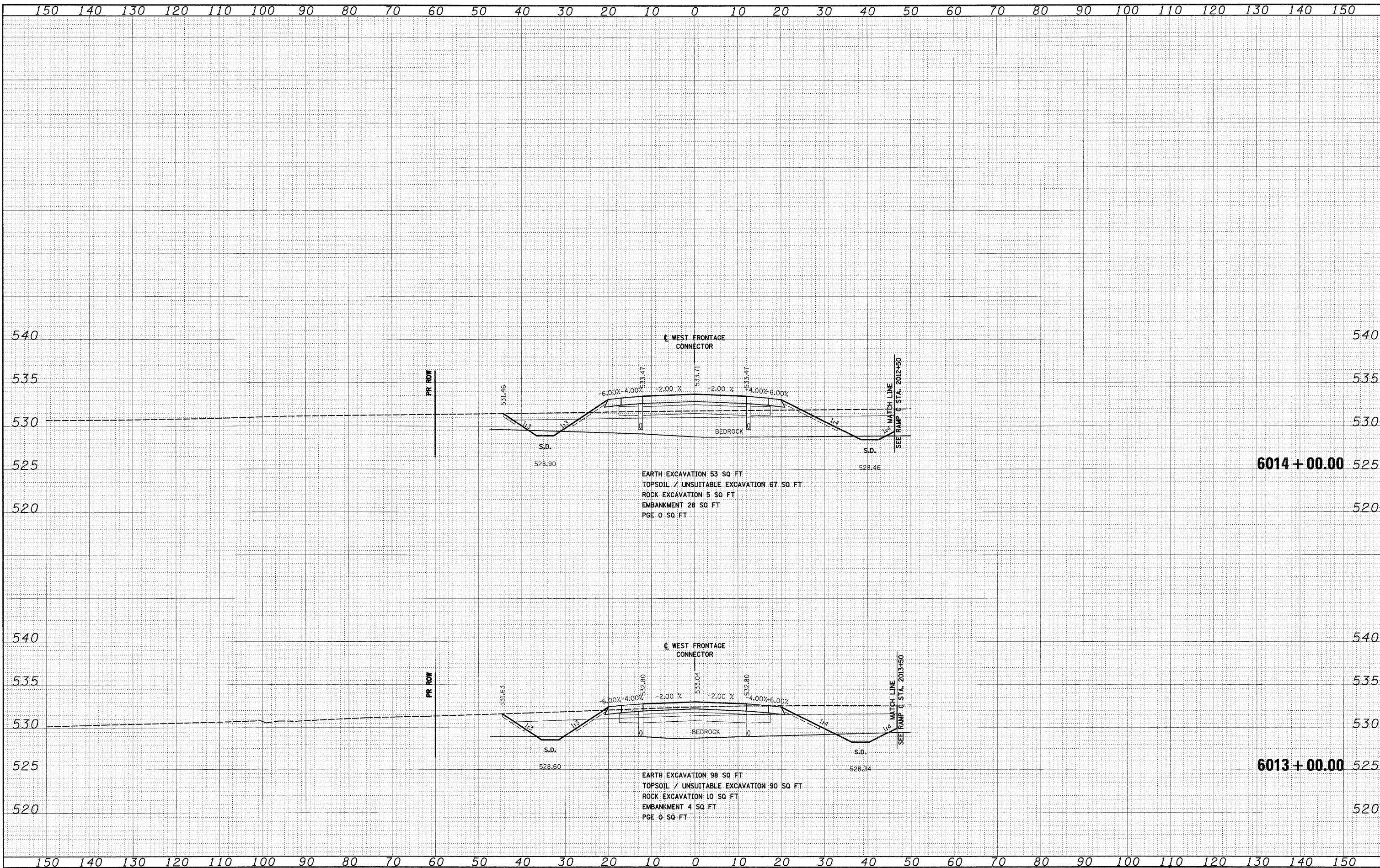
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PLOT SCALE = 1:10	CHECKED - DLT	REVISIED -	SCALE: 1"=10'H; 1"=5'V			SHEET NO. 5 OF 34 SHEETS	STA. 6010+00.00 TO STA. 6012+00.00	CONTRACT NO. 60C31		
PLOT DATE = 12/15/2009	DATE - 12/18/09	REVISIED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

FINAL

FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
AREAS	
AREAS CHECKED	
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ORIGINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
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AREAS CHECKED	
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 100 East Randolph Street, Chicago, Illinois 60601



FILE NAME = D:\60C31-SHT-XSSH102.dgn

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

WEST FRONTAGE ROAD CONNECTOR

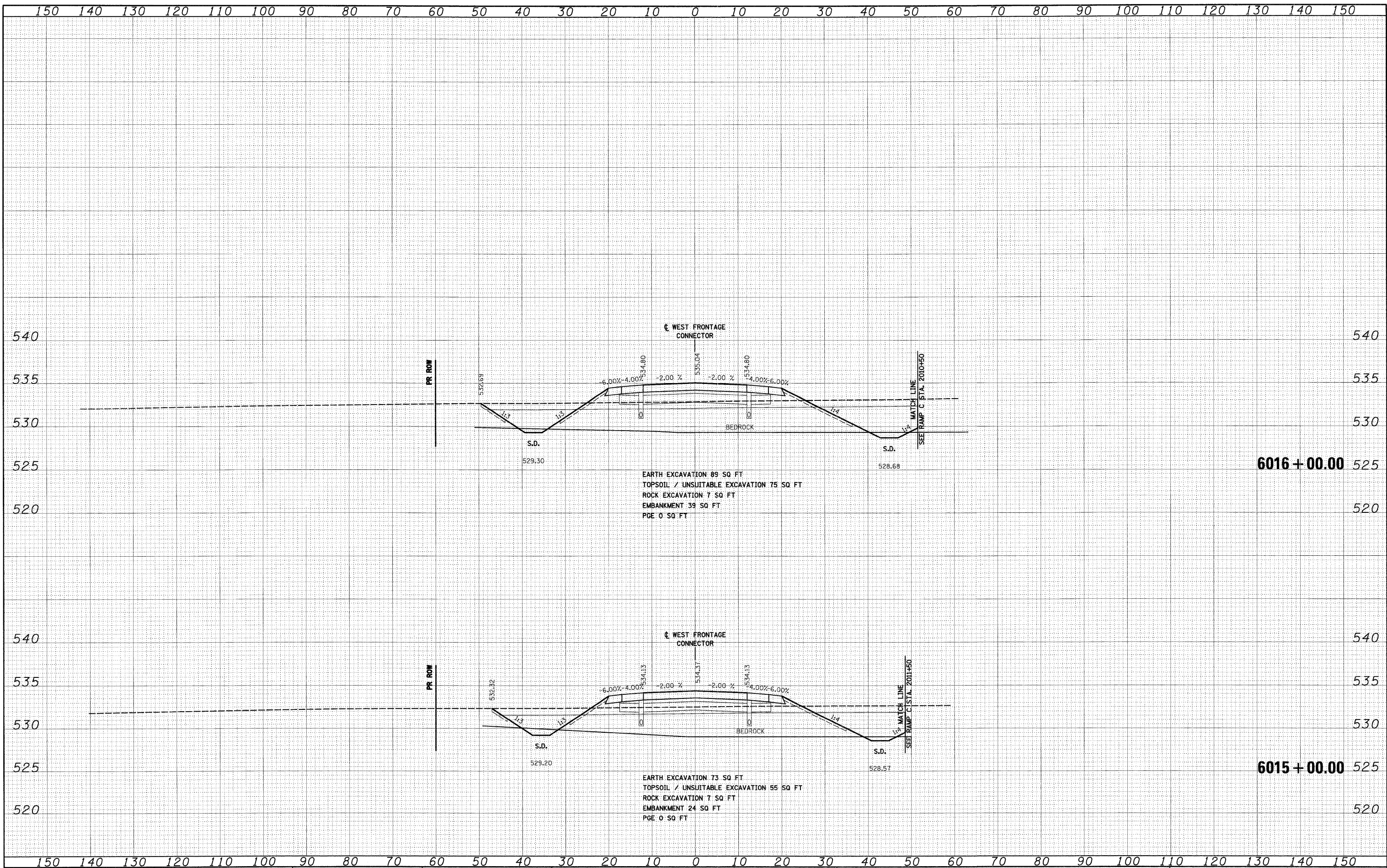
SCALE: 1"=10'H; 1"=5'V SHEET NO. 6 OF 34 SHEETS STA. 6013+00.00 TO STA. 6014+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	387
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
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NOTE BOOK		
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ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
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FILE NAME = D:\60C31-SHT-XSSH702.dgn

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DESIGNED - TRK
 DRAWN - TRK
 CHECKED - DLT
 DATE - 12/18/09

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

WEST FRONTAGE ROAD CONNECTOR

SCALE: 1"=10'H; 1"=5'V SHEET NO. 7 OF 34 SHEETS STA. 6015+00.00 TO STA. 6016+00.00

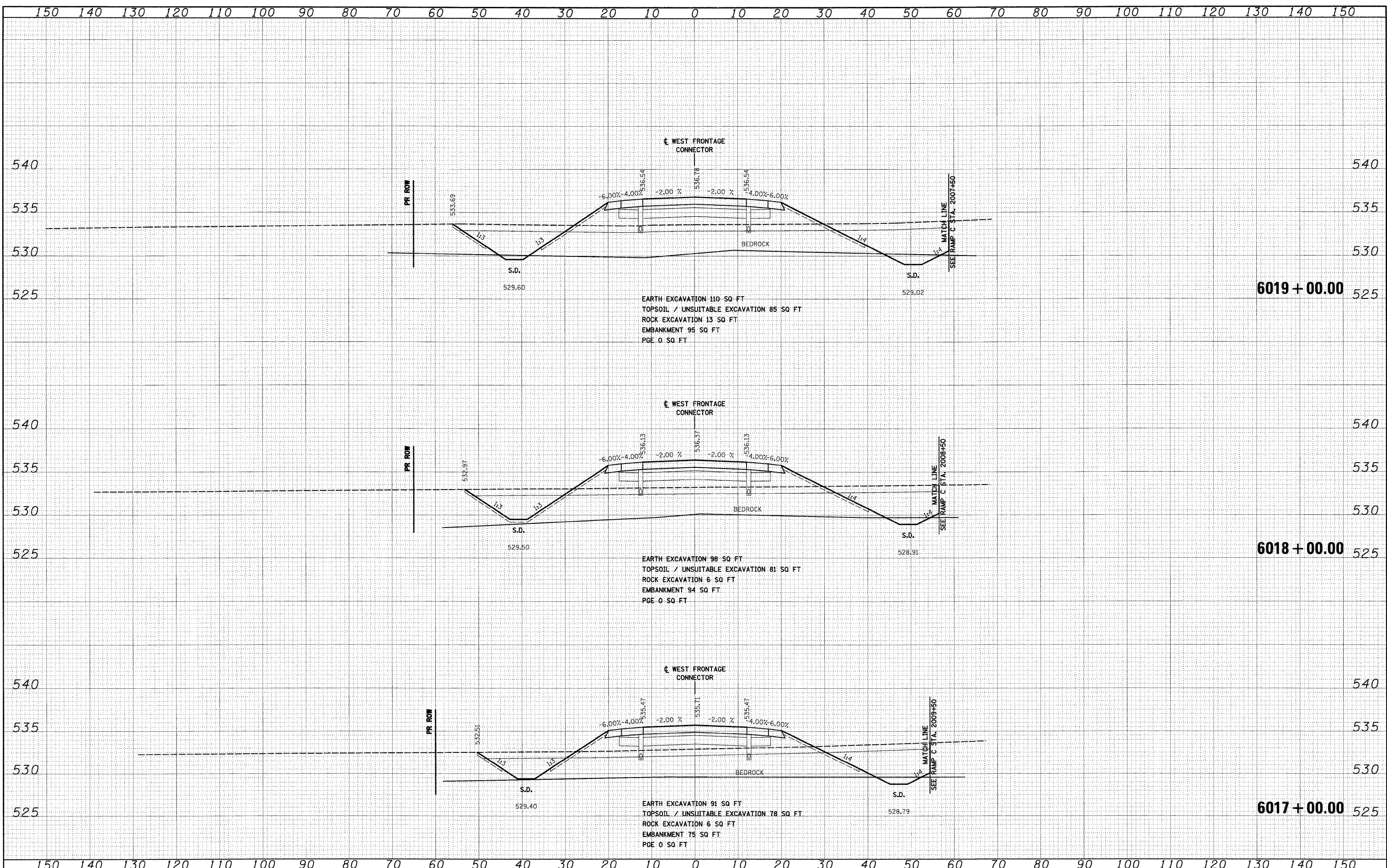
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	388
CONTRACT NO. 60C31			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

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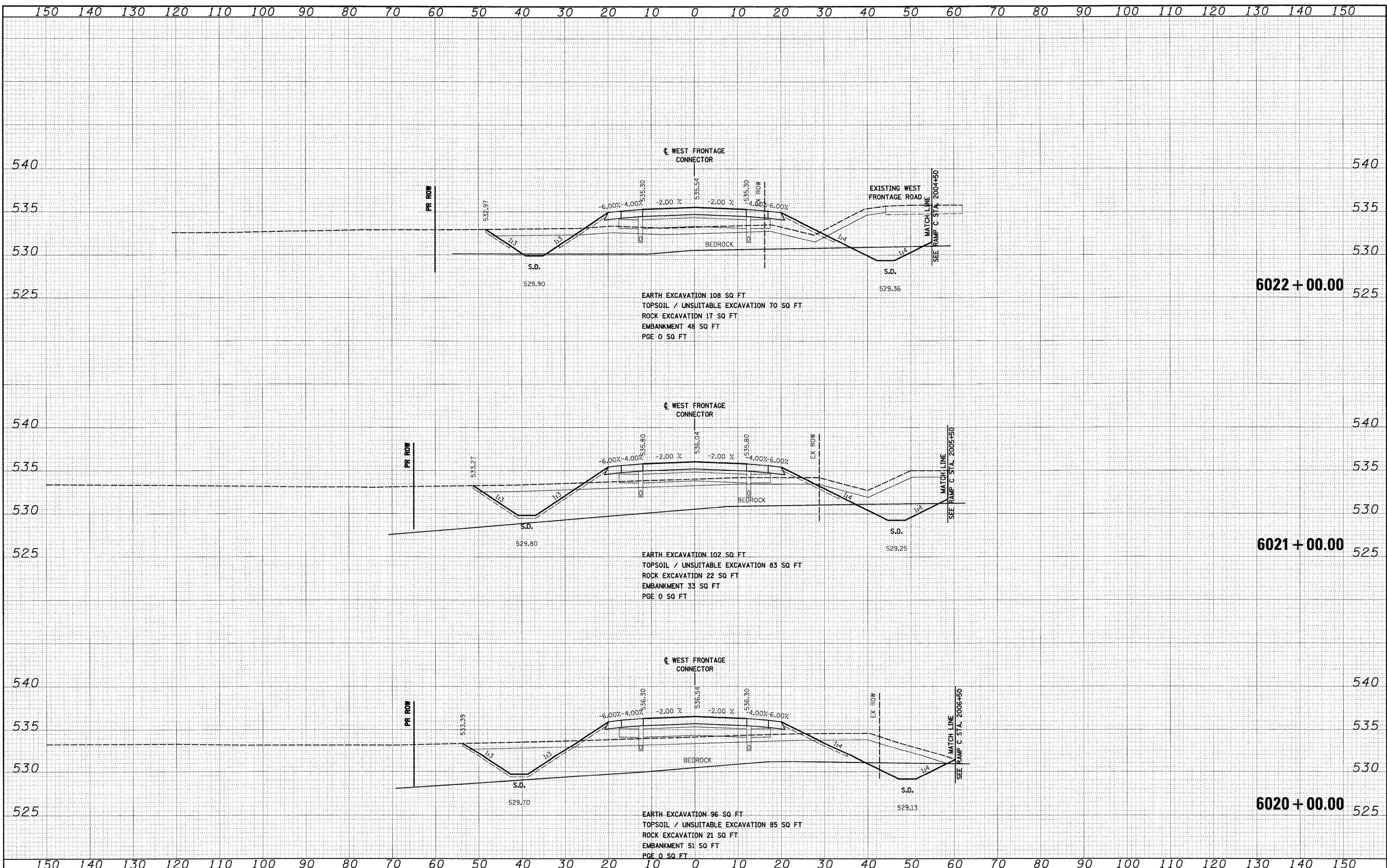
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PLLOT SCALE = 1:12	CHECKED - DLT	REVISED -	SCALE: 1"=10'H; 1"=5'V			SHEET NO. 8 OF 34 SHEETS	STA. 6017+00.00 TO STA. 6019+00.00	FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			
PLLOT DATE = 12/15/2009	DATE - 12/18/09	REVISED -									

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FILE NAME =	USER NAME = TKluegal	DESIGNED - TRK	REVISED -	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 390
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PLOT DATE = 12/15/2009		DATE - 12/18/09	REVISED -	SHEET NO. 9 OF 34 SHEETS STA. 6020+00.00 TO STA. 6022+00.00				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

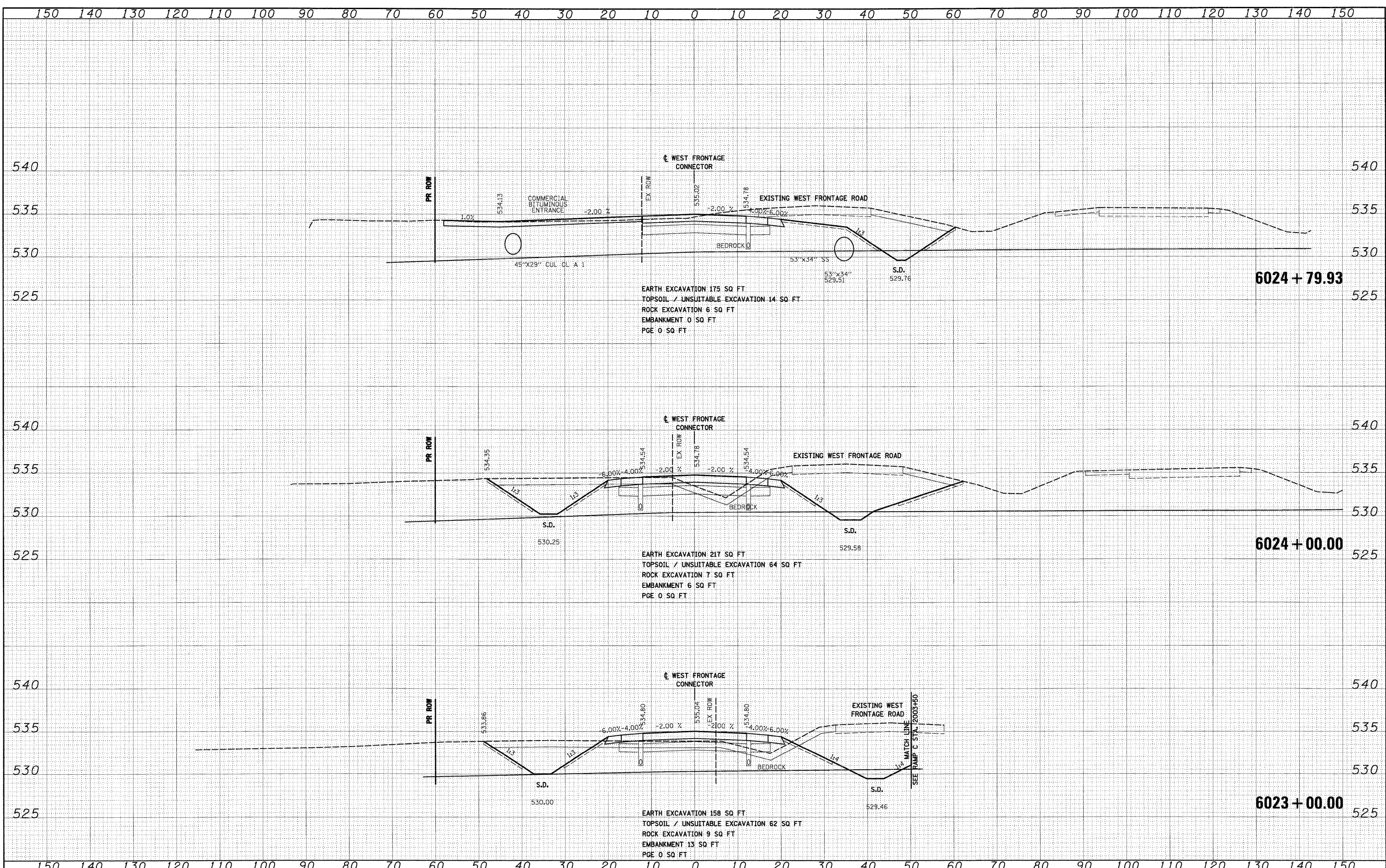
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

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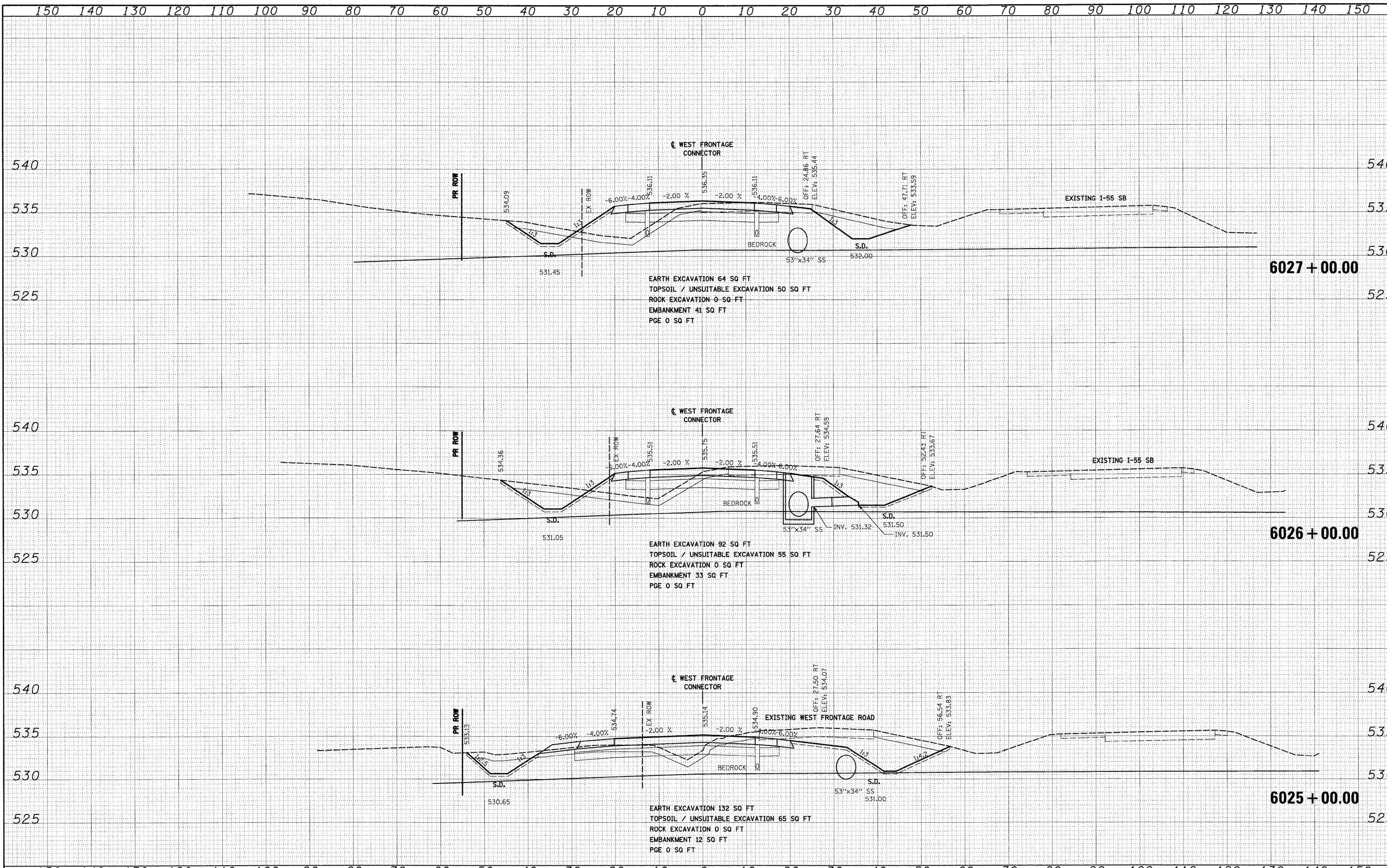
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	PLLOT SCALE = 1:10	DRAWN - TRK	REVISED -			CONTRACT NO. 60C31				
	PLLOT DATE = 12/15/2009	CHECKED - DLT	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
		DATE - 12/18/09	REVISED -							

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

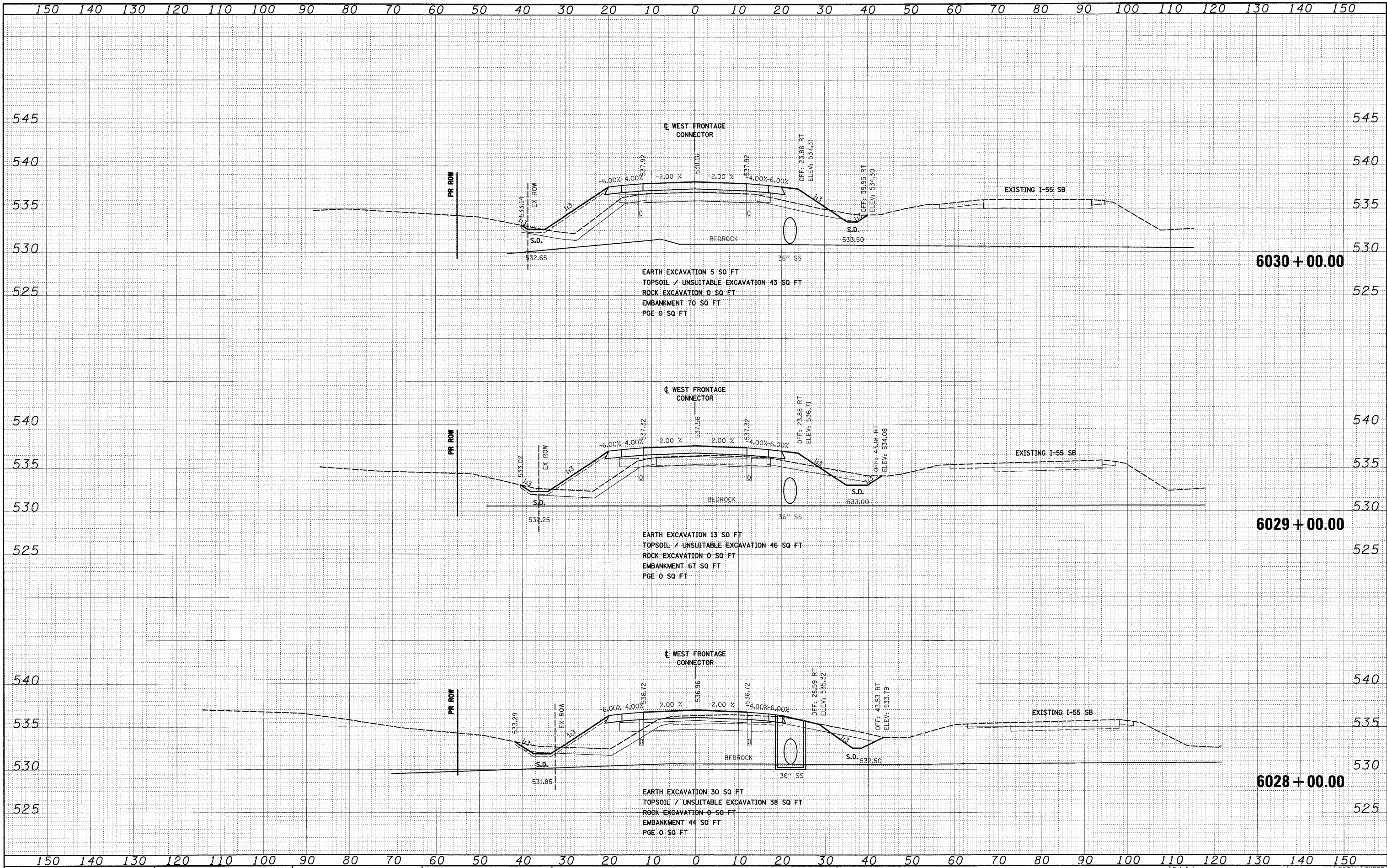
WEST FRONTAGE ROAD CONNECTOR
 SCALE: 1"=10'H; 1"=5'V SHEET NO. 11 OF 34 SHEETS STA. 6025+00.00 TO STA. 6027+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	392
CONTRACT NO. 60C31			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

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FILE NAME = D:\60C31-SHT-XSSH02.dgn
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

WEST FRONTAGE ROAD CONNECTOR

SCALE: 1"=10'H H¹"=5' V SHEET NO. 12 OF 34 SHEETS STA. 6028+00.00 TO STA. 6030+00.00

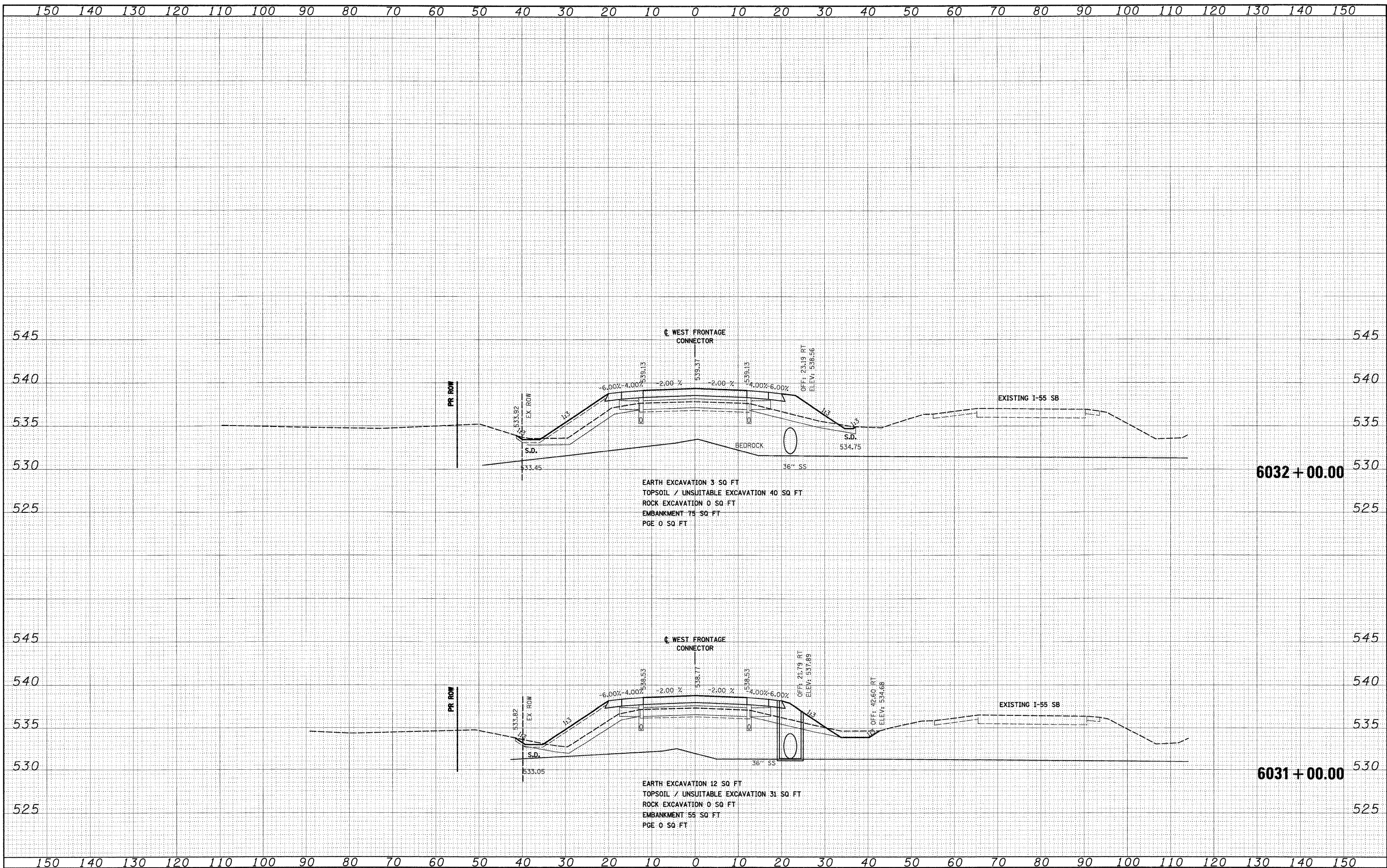
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	393
CONTRACT NO. 60C31			ILLINOIS FED. AID PROJECT	

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FILE NAME = D:\60C31-SHT-X5SHT82.dgn
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

WEST FRONTAGE ROAD CONNECTOR

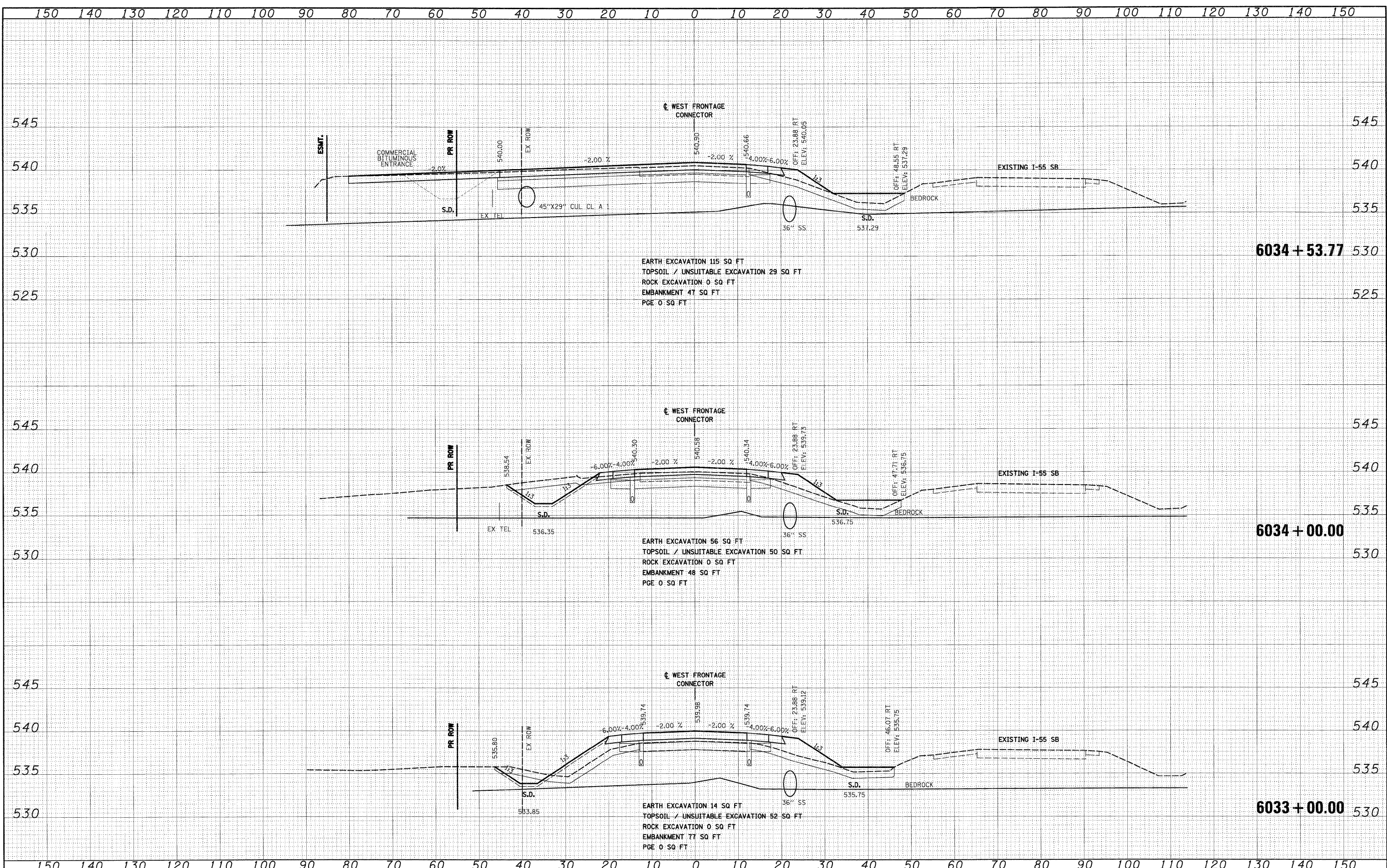
SCALE: 1"=10'H; 1"=5'V SHEET NO. 13 OF 34 SHEETS STA. 6031+00.00 TO STA. 6032+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	394
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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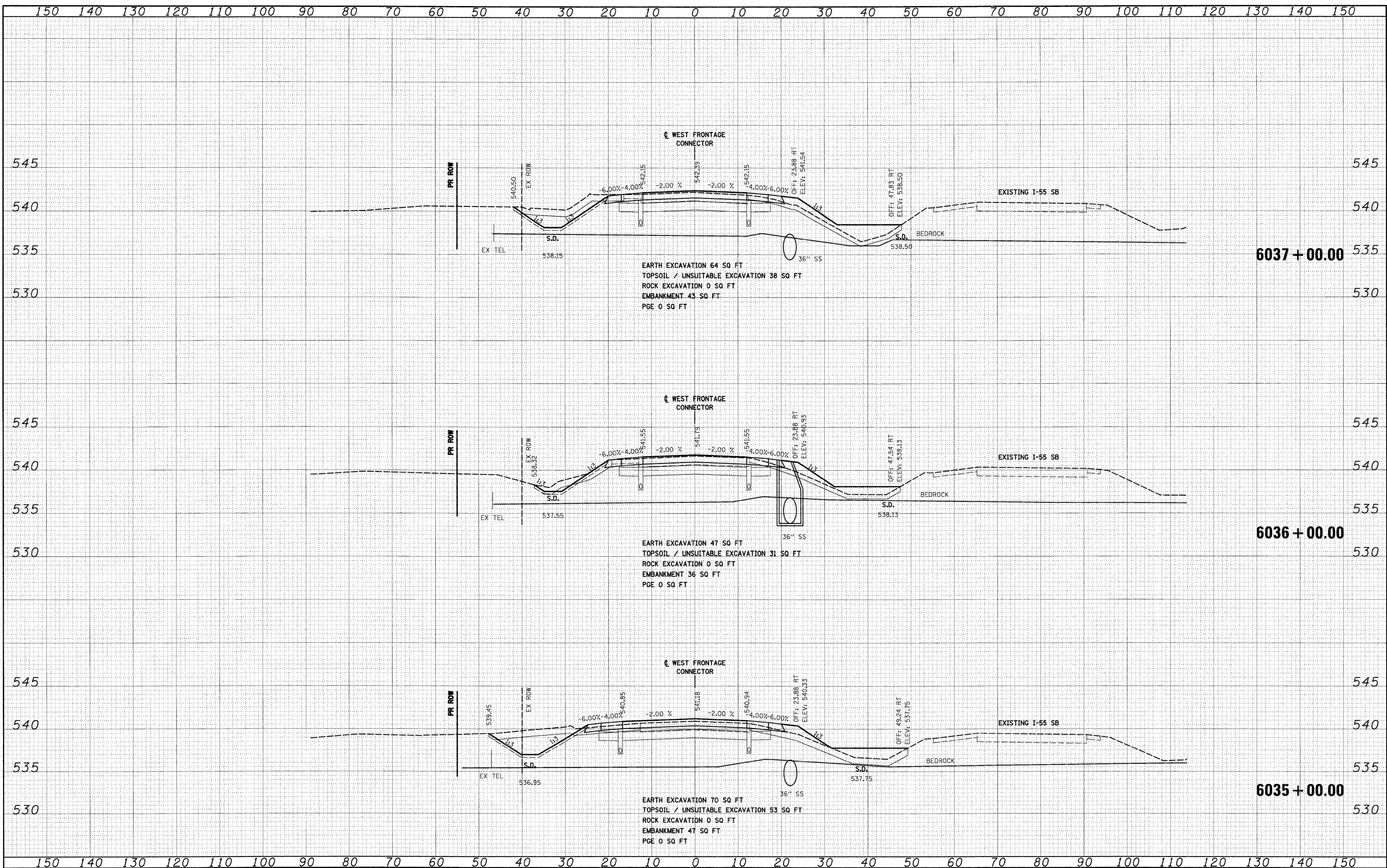


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	PLOT DATE = 12/15/2009	DATE - 12/18/09	REVISED -								

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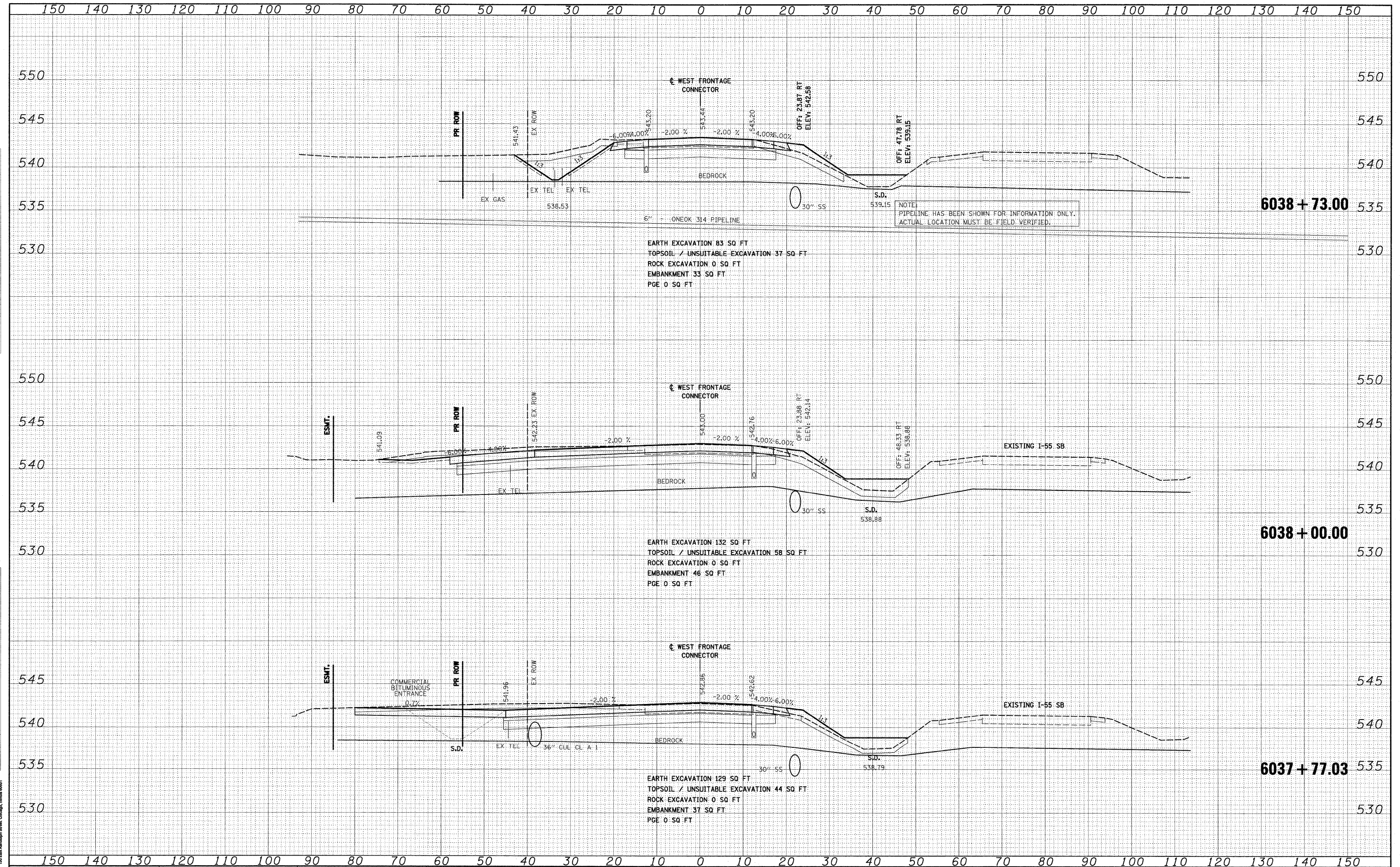
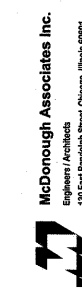
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

WEST FRONTAGE ROAD CONNECTOR
 SCALE: 1"=10'H; 1/4"=5'V SHEET NO. 15 OF 34 SHEETS STA. 6035+00.00 TO STA. 6037+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	396
CONTRACT NO. 60C31			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

WEST FRONTAGE ROAD CONNECTOR

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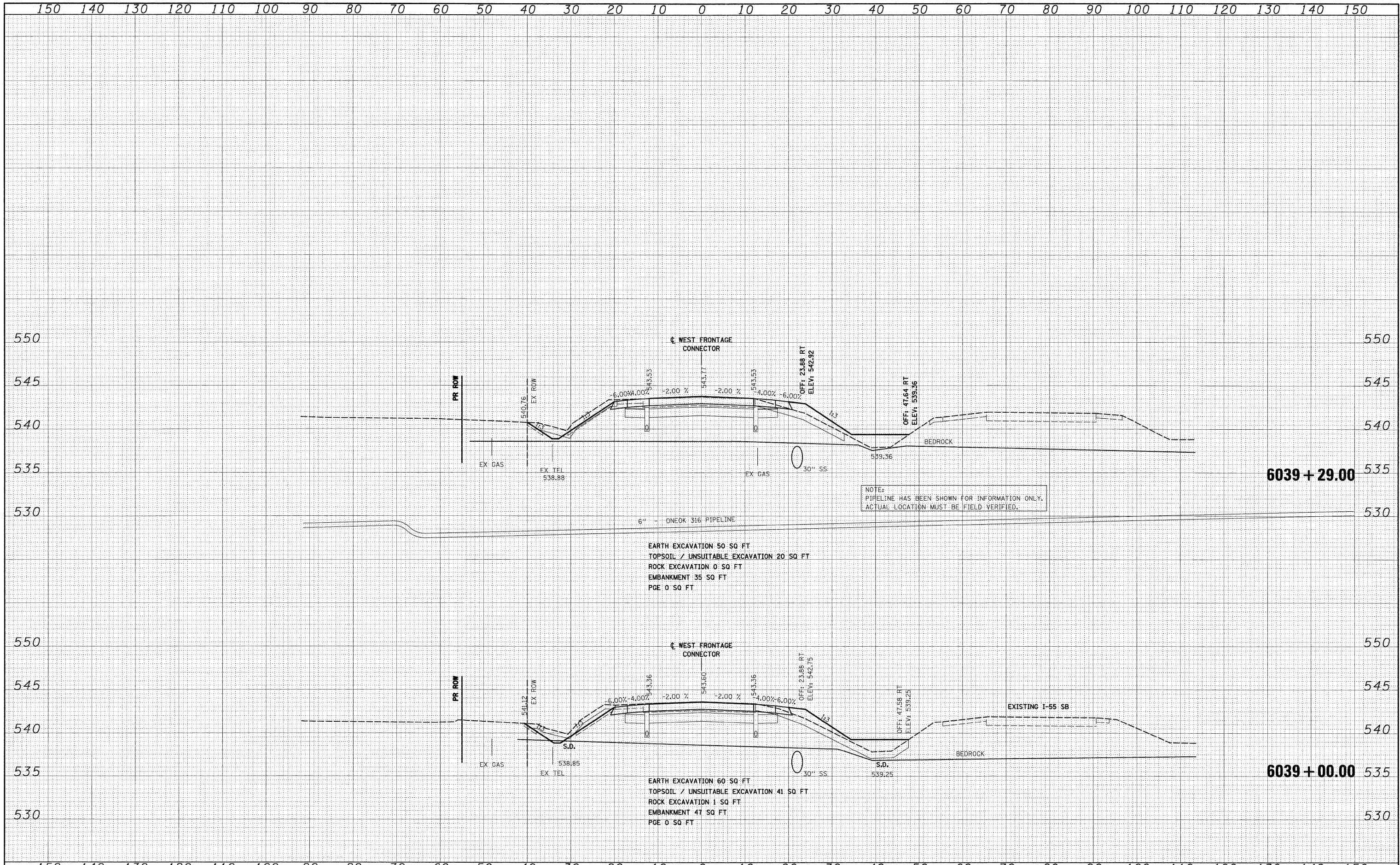
SCALE: 1"=10'H 1"=5'V
 SHEET NO. 16 OF 34 SHEETS
 STA. 6037+77.03 TO STA. 6038+73.00

F.A.I. RTE. 55
 SECTION (99-1&2)AC-3
 COUNTY WILL
 CONTRACT NO. 60C31
 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

TOTAL SHEETS 524
 SHEET NO. 397

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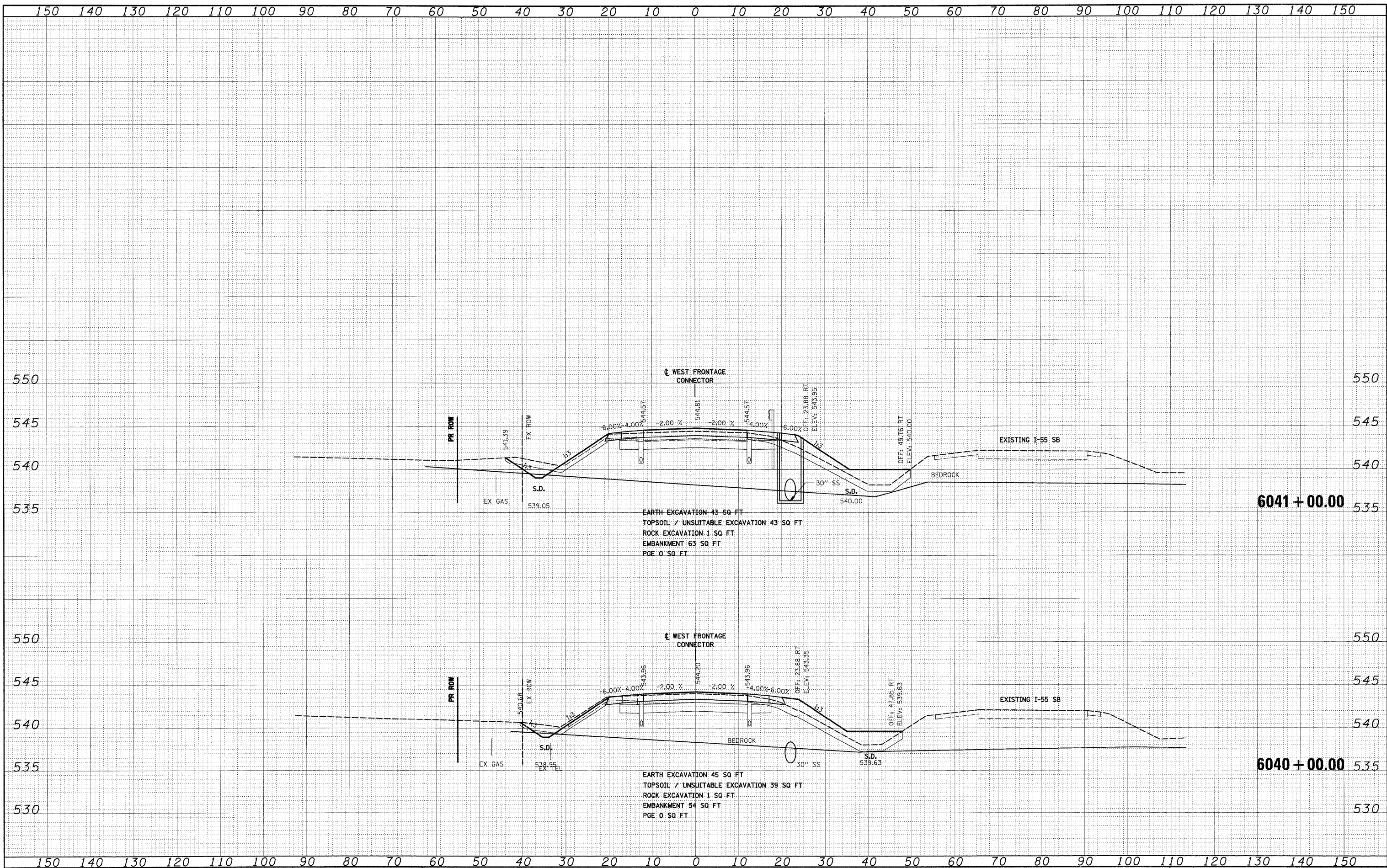


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PLOT SCALE = 1:12	CHECKED - DLT	DATE - 12/18/09	REVISED -			SCALE: 1"=10'H; 1"=5'V	SHEET NO. 17 OF 34 SHEETS	STA. 6039+00.00 TO STA. 6039+29.00	CONTRACT NO. 60C31		
PLOT DATE = 1/19/2010	DATE - 12/18/09	REVISED -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

WEST FRONTAGE ROAD CONNECTOR
 SCALE: 1"=10'H; 1"=5'V SHEET NO. 18 OF 34 SHEETS STA. 6040+00.00 TO STA. 6041+00.00

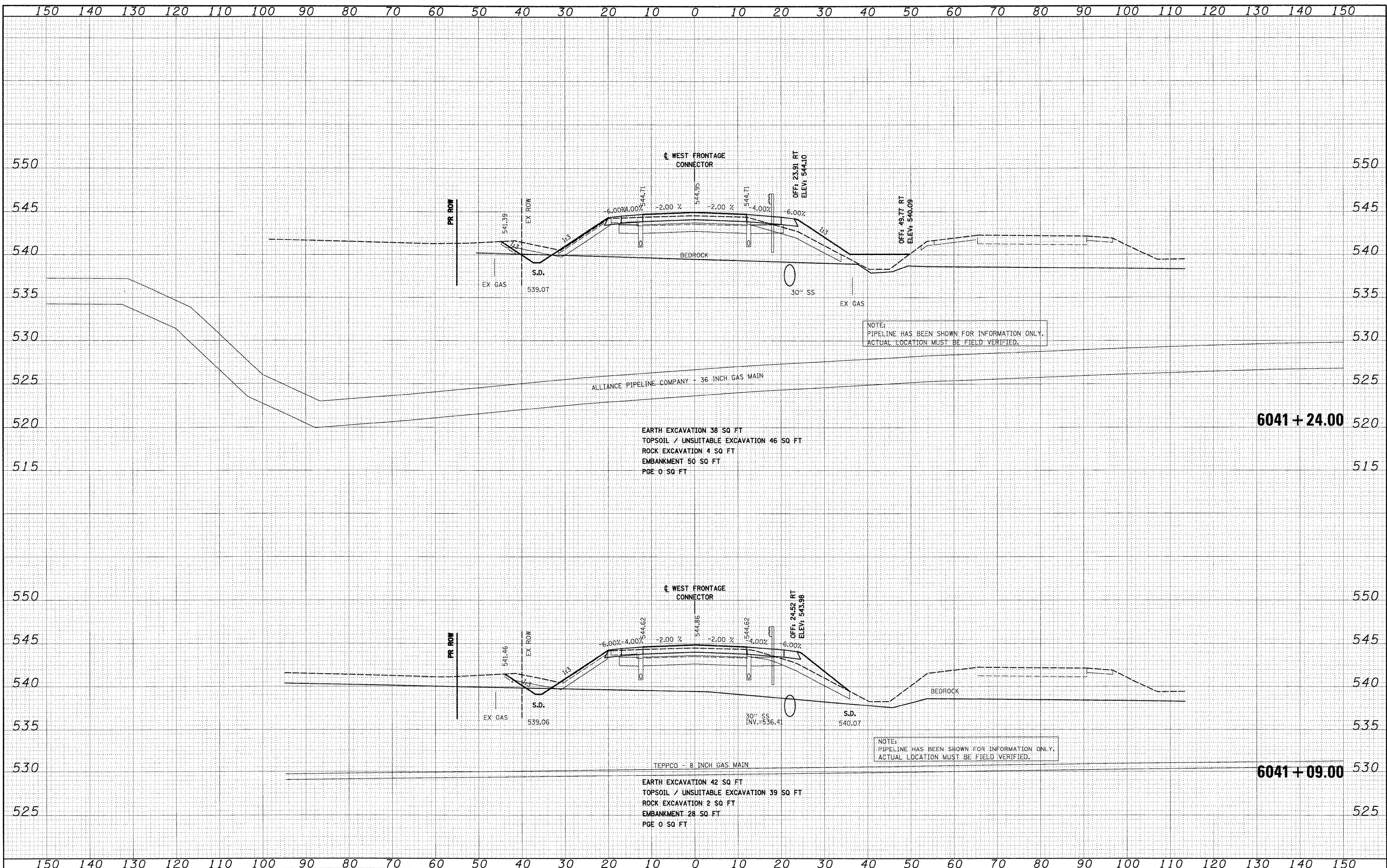
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	399
CONTRACT NO. 60C31			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

WEST FRONTAGE ROAD CONNECTOR
 SCALE: 1"=10'H; 1"=5'V SHEET NO. 19 OF 34 SHEETS STA. 6041+09.00 TO STA. 6041+24.00

F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 400
CONTRACT NO. 60C31			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	