

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	09-00067-00-BT	COOK	15	1
FED. ROAD DIST. NO. 1		ILLINOIS	CONTRACT NO. 63434	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

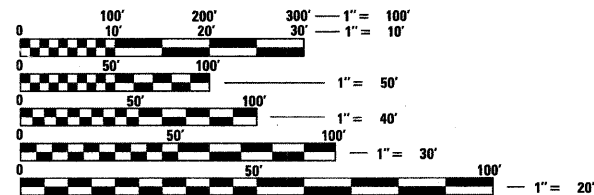
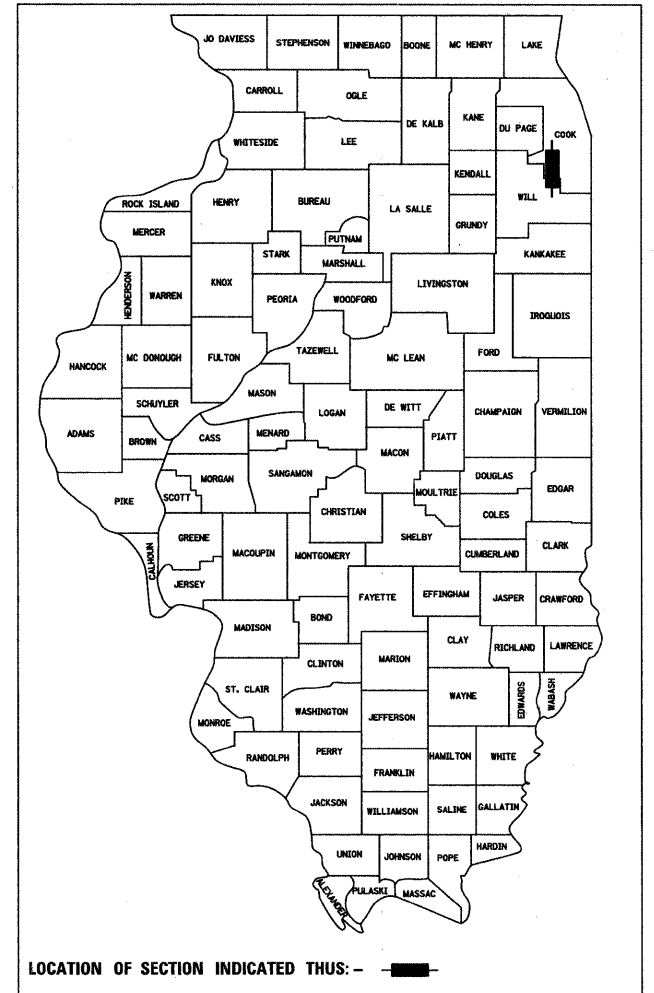
**FAU 2696 (104TH AVENUE)
167TH STREET TO 163RD PLACE
SECTION 09-00067-00-BT
PROJECT ARA-9003(390)
BICYCLE PATH CONSTRUCTION
VILLAGE OF ORLAND PARK
COOK COUNTY
C-91-776-09**

INDEX OF SHEETS

SHEET NO.	SHEET NAME
1	COVER PAGE
2	GENERAL NOTES, HIGHWAY STANDARDS AND SUMMARY OF QUANTITIES
3	TYPICAL SECTIONS
4-5	PLAN AND PROFILE
6	SEGMENTAL CONCRETE BLOCK WALL
7	SOIL BORING LOGS
8-15	CROSS SECTIONS

TRAFFIC DATA:
DESIGN SPEED 20 M.P.H.
PROJECTED PEAK HOUR VOLUME (2010): 75 PEDESTRIANS/BICYCLES

**PROJECT LOCATION MAP
R. 12 E.T. 36 N.**

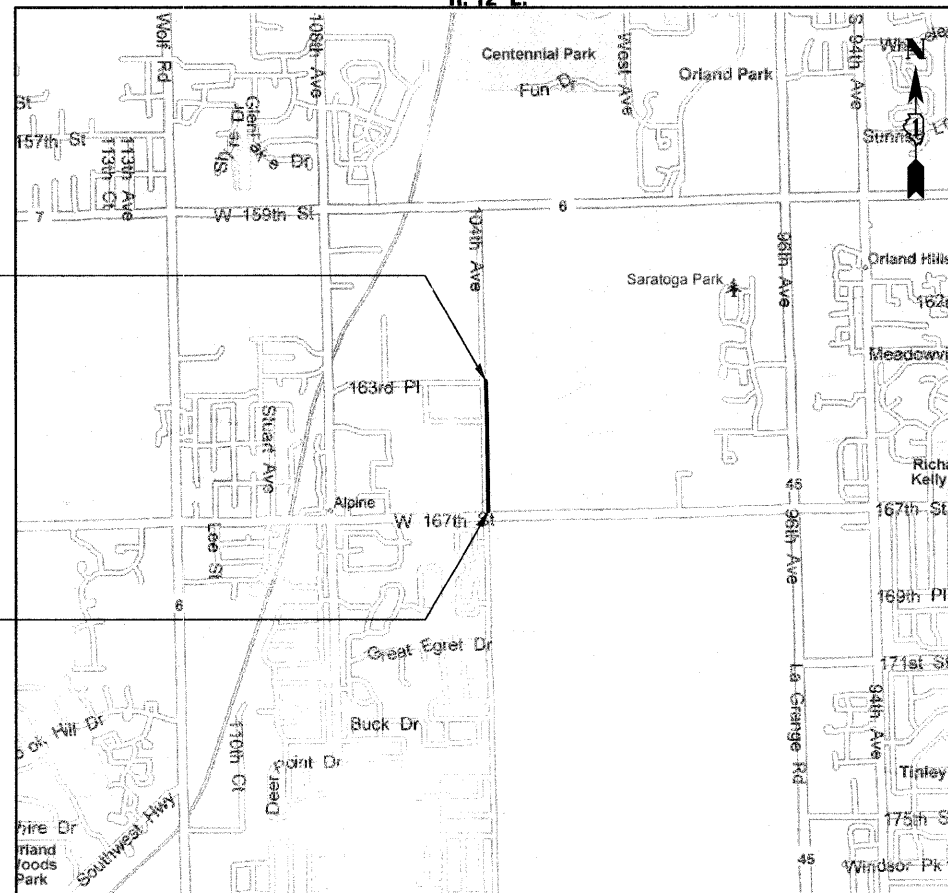


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

END IMPROVEMENT
STA 223+07 BICYCLE PATH

BEGIN IMPROVEMENT
STA 201+05 BICYCLE PATH



TOTAL LENGTH = 2202 FT. = 0.417 MILE

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

Approved: *[Signature]*
Village of Orland Park, Village Manager

Passed: *DECEMBER 3, 2009*
[Signature]
District 1 Engineer of Local Roads & Streets

Releasing for Bid Based on Limited Review: *DECEMBER 8, 2009*
[Signature]
Deputy Director of Highways, Region 1 Engineer



Alan R. Swanson

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

CONTRACT NO. 63434

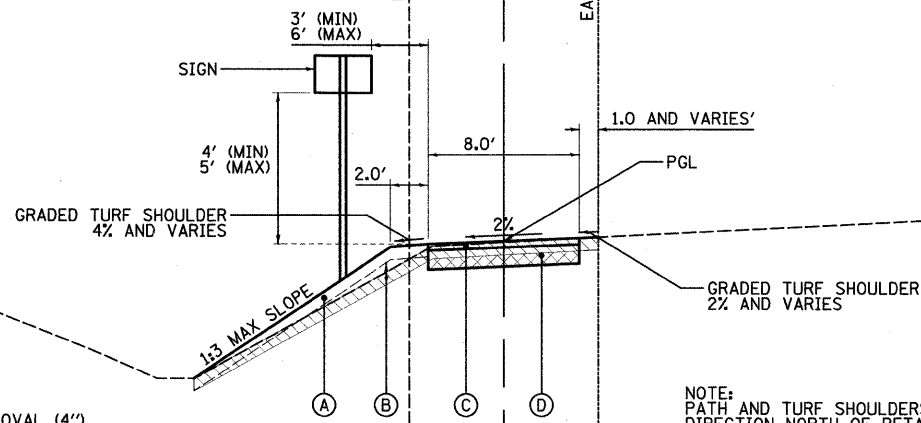
FIELD ENGINEER: MELCHOR MANGOBA

104TH AVENUE

BICYCLE PATH

50.0'

10.0'



LEGEND

- = TOPSOIL EXCAVATION/UNSUITABLE REMOVAL (4")
- = EARTH EXCAVATION
- = TOPSOIL PLACEMENT (4")
- = EMBANKMENT
- = HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (2")
- = AGGREGATE BASE COURSE, TYPE B 6"
- = CONCRETE GUTTER, TYPE B

NOTE:
PATH AND TURF SHOULDERS SLOPE IN OPPOSITE
DIRECTION NORTH OF RETAINING WALL.

TYPICAL SECTION

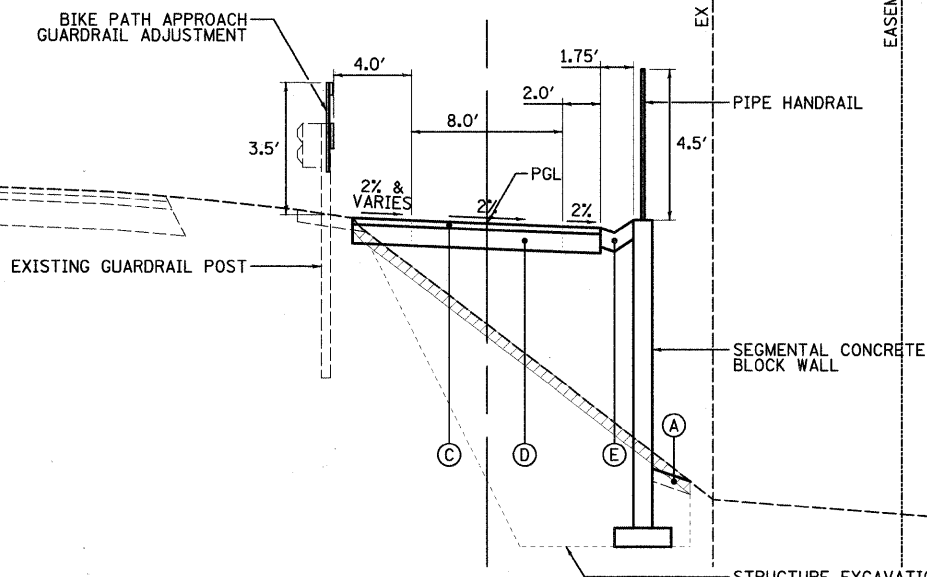
BICYCLE PATH IN EASEMENT OR AT-GRADE

104TH AVENUE

BICYCLE PATH

50.0'

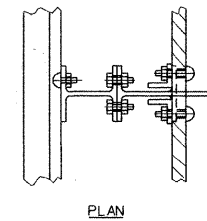
10.0'



TYPICAL SECTION

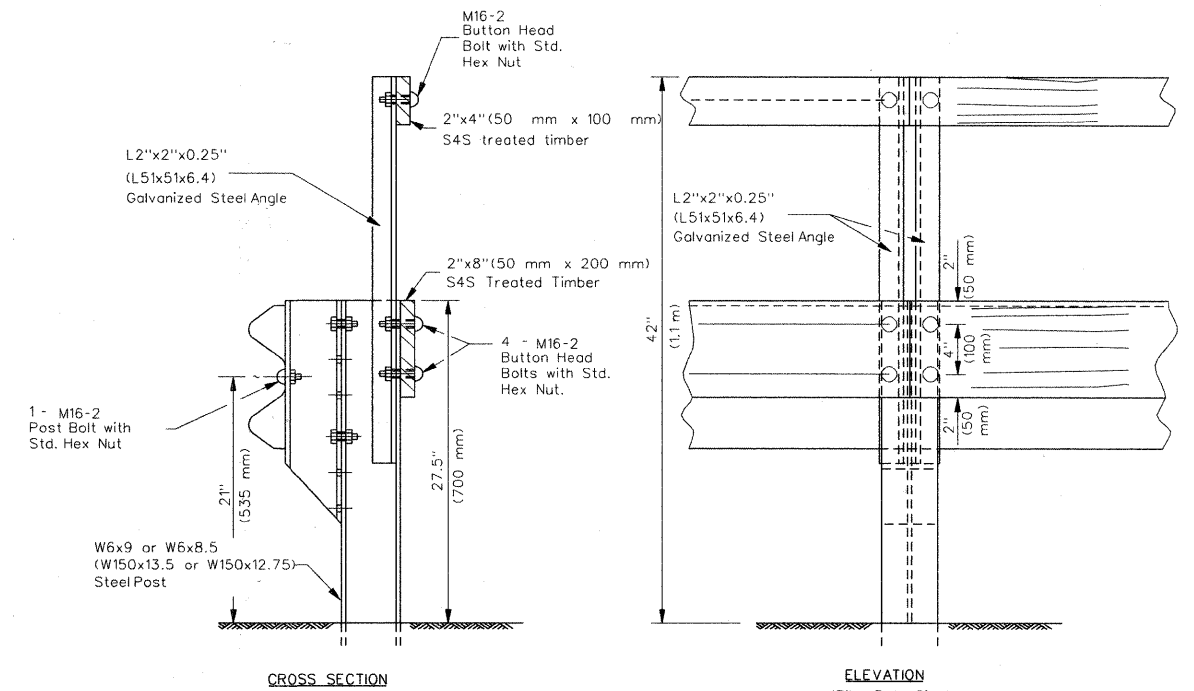
BICYCLE PATH ADJACENT TO ROADWAY
WITH RETAINING WALL

STRUCTURE EXCAVATION AND
REINFORCED FILL (SEE SHEET
NO. 6 FOR DETAILS)



PLAN

NOTE:
STEEL ANGLES AND RAILS SHALL BE INSTALLED AND
FASTENED AT EVERY GUARDRAIL POST



CROSS SECTION

ELEVATION
(Bike Path Side)

**BIKE PATH APPROACH
GUARDRAIL ADJUSTMENT DETAILS**

FILE NAME =	USER NAME = MTomasze
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PLOT SCALE = 1:5	
PLOT DATE = 11/30/2009	

DESIGNED -	REVISD -
DRAWN -	REVISD -
CHECKED -	REVISD -
DATE - 12/01/09	REVISD -

DESIGNED -	REVISD -
DRAWN -	REVISD -
CHECKED -	REVISD -
DATE - 12/01/09	REVISD -

DESIGNED -	REVISD -
DRAWN -	REVISD -
CHECKED -	REVISD -
DATE - 12/01/09	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**104TH AVENUE BICYCLE PATH
TYPICAL SECTIONS**

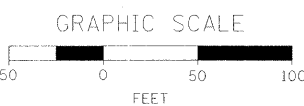
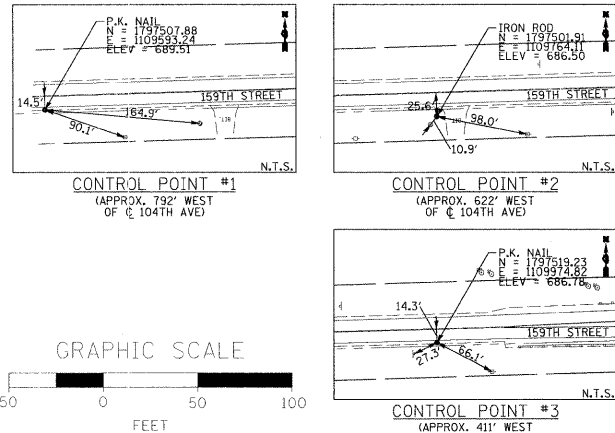
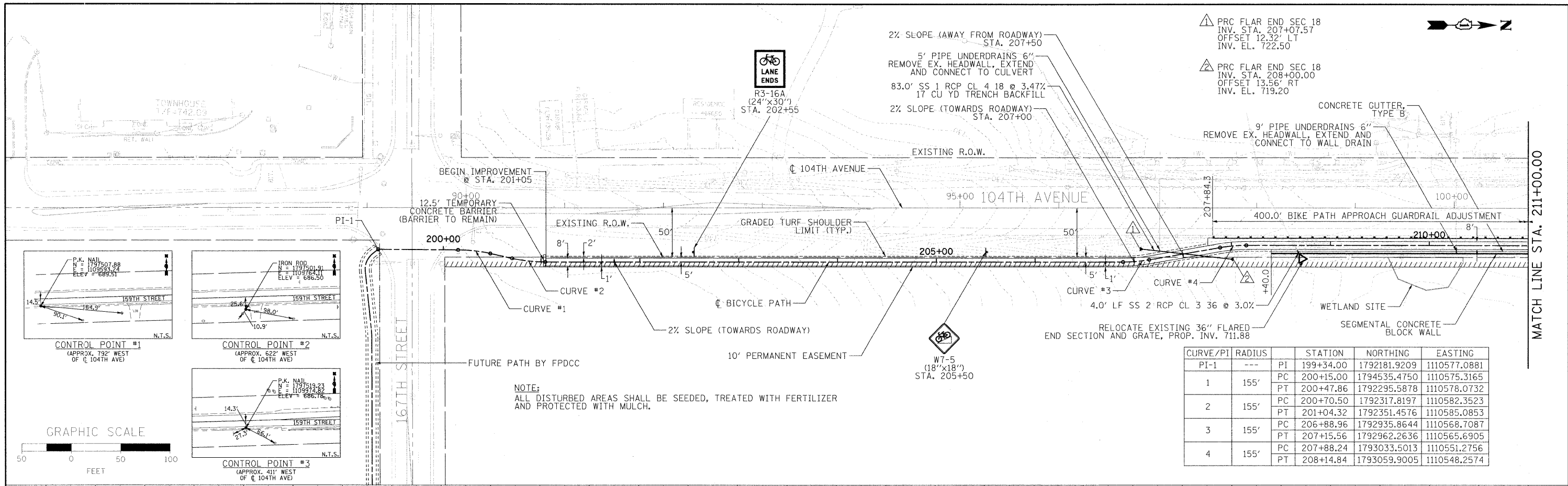
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	09-00067-00-BT	COOK	15	3
CONTRACT NO. 63434				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLotted		
	NOTE BOOK		
	NO.		

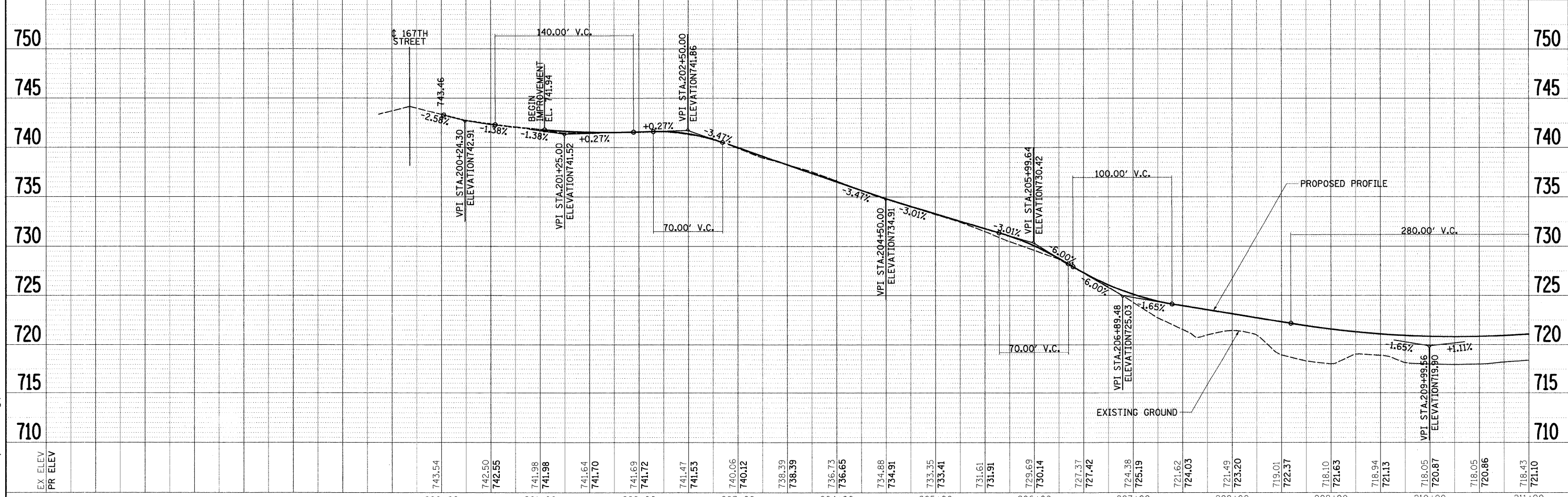
PROFILE	SURVEYED	BY	DATE
	Plotted		
	NOTE BOOK		
	NO.		

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



CURVE/PI	RADIUS	STATION	NORTHING	EASTING
PI-1	---	PI 199+34.00	1792181.9209	1110577.0881
1	155'	PC 200+15.00	1794535.4750	1110575.3165
		PT 200+47.86	1792295.5878	1110578.0732
2	155'	PC 200+70.50	1792317.8197	1110582.3523
		PT 201+04.32	1792351.4576	1110585.0853
3	155'	PC 206+88.96	1792935.8644	1110568.7087
		PT 207+15.56	1792962.2636	1110565.6905
4	155'	PC 207+88.24	1793033.5013	1110551.2756
		PT 208+14.84	1793059.9005	1110548.2574

NOTE:
ALL DISTURBED AREAS SHALL BE SEEDED, TREATED WITH FERTILIZER AND PROTECTED WITH MULCH.

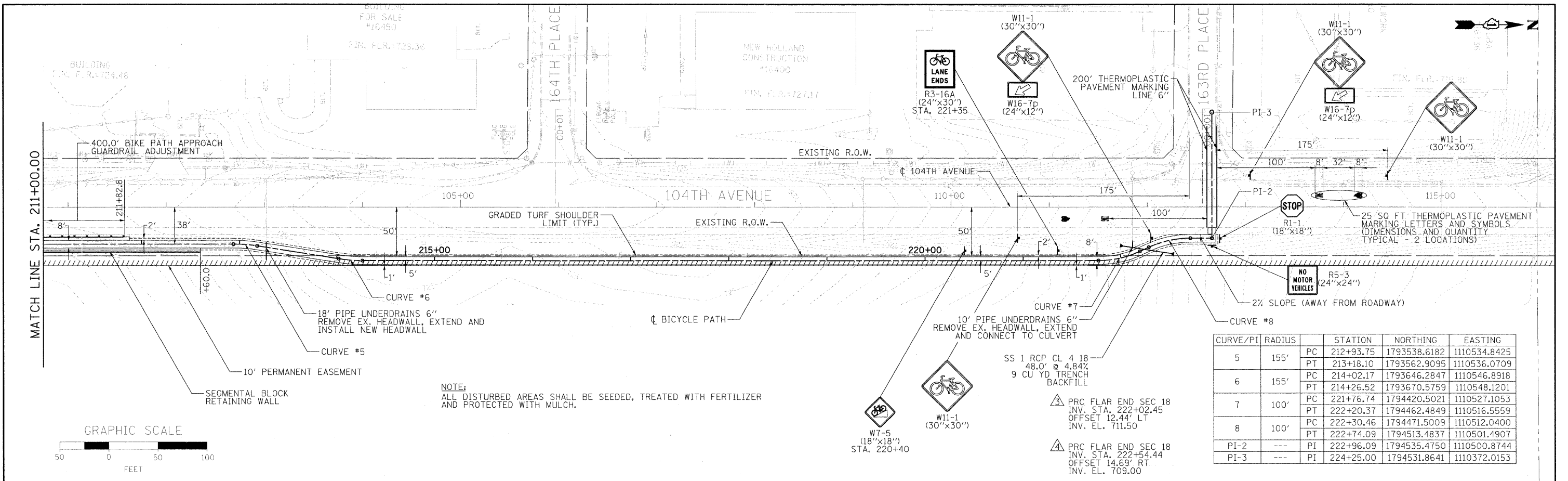


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PL01 SCALE = 1:500	CHECKED - RY	DATE = 12/01/09	REVISED -			SCALE: 1" = 50'	SHEET NO. 1 OF 2 SHEETS	STA. TO STA.	CONTRACT NO. 63434			
PL01 DATE = 12/1/2009	DATE = 12/01/09	REVISED -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	ALLOTTED	
	NO. _____	
	NO. _____	

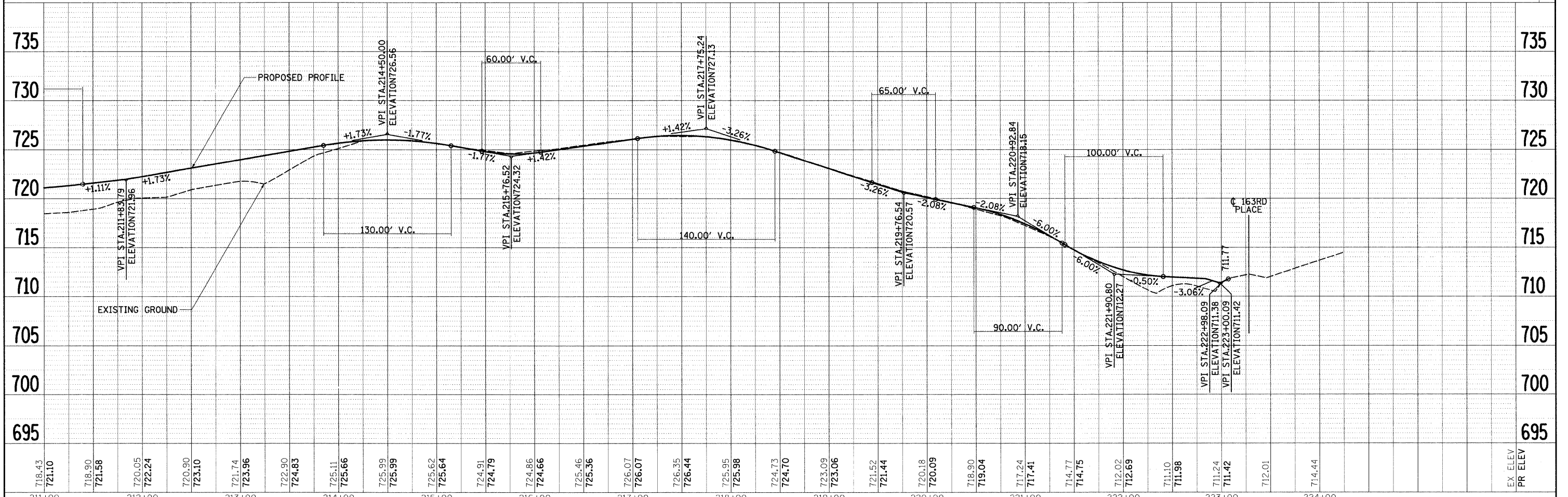
PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NO. _____	
	NO. _____	

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



NOTE:
ALL DISTURBED AREAS SHALL BE SEEDED, TREATED WITH FERTILIZER AND PROTECTED WITH MULCH.

CURVE/PI	RADIUS	STATION	NORTHING	EASTING
5	155'	PC 212+93.75	1793538.6182	1110534.8425
		PT 213+18.10	1793562.9095	1110536.0709
6	155'	PC 214+02.17	1793646.2847	1110546.8918
		PT 214+26.52	1793670.5759	1110548.1201
7	100'	PC 221+76.74	1794420.5021	1110527.1053
		PT 222+20.37	1794462.4849	1110516.5559
8	100'	PC 222+30.46	1794471.5009	1110512.0400
		PT 222+74.09	1794513.4837	1110501.4907
PI-2	---	PI 222+96.09	1794535.4750	1110500.8744
PI-3	---	PI 224+25.00	1794531.8641	1110372.0153



718.43 721.10	718.90 721.58	720.05 722.24	720.90 723.10	721.74 723.96	722.90 724.83	725.11 725.66	725.99 725.99	725.62 725.64	724.91 724.79	724.86 724.66	725.46 725.36	726.07 726.07	726.35 726.44	725.95 725.98	724.73 724.70	723.09 723.06	721.52 721.44	720.18 720.09	718.90 719.04	717.24 717.41	714.77 714.75	712.02 712.69	711.10 711.98	711.24 711.42	712.01	714.44	EX ELEV PR ELEV	
211+00	212+00	213+00	214+00	215+00	216+00	217+00	218+00	219+00	220+00	221+00	222+00	223+00	224+00															

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

104TH AVENUE BICYCLE PATH
PLAN AND PROFILE

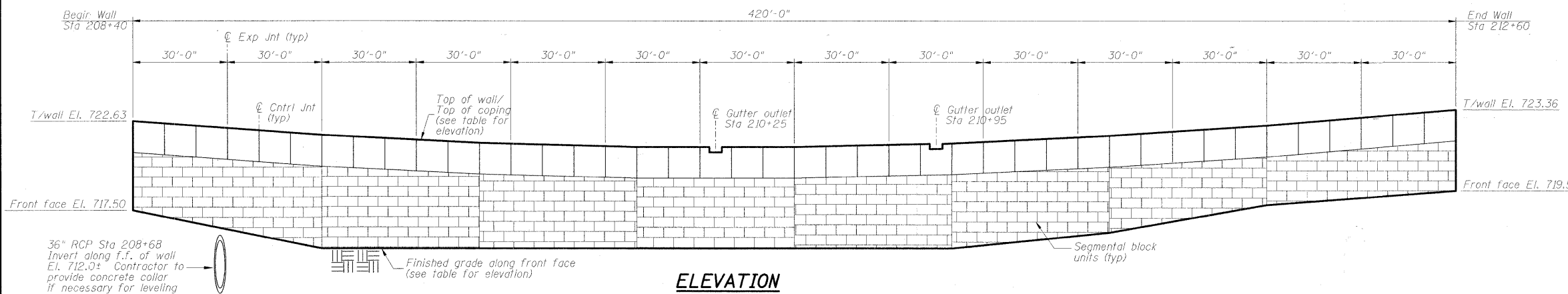
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PLOT SCALE = 1:50	PLOT DATE = 12/9/2009	CHECKED - RY	DATE - 12/01/09	SCALE: 1" = 50'	SHEET NO. 2 OF 2 SHEETS	STA. TO STA.	CONTRACT NO. 63434	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

WALL ELEVATIONS

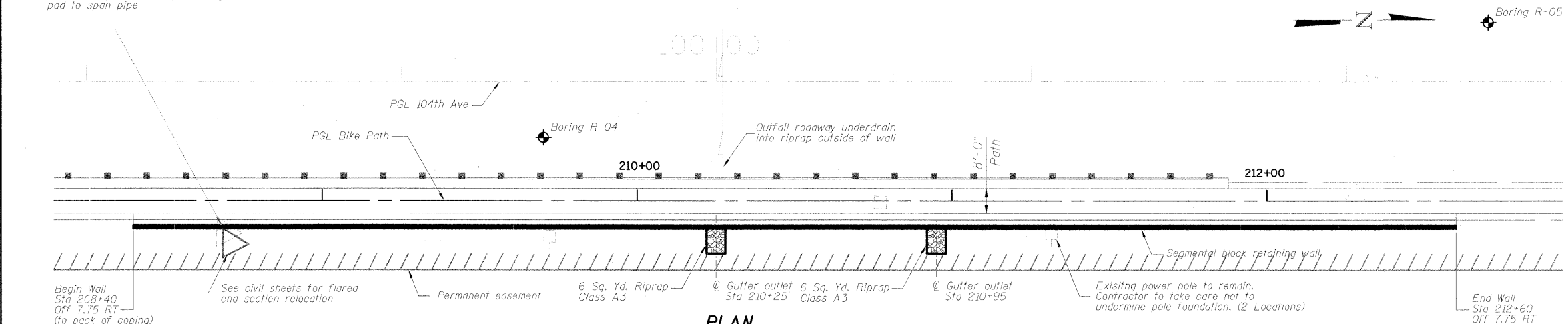
Station	Top of wall El.	Grade along f.f. wall
208+40	722.63	717.50
208+50	722.46	716.00
209+00	721.72	714.50
209+50	721.22	714.50
210+00	720.96	714.50
210+50	720.95	714.50
211+00	721.19	714.50
211+50	721.67	715.50
212+00	722.33	716.75
212+50	723.19	718.00
212+60	723.36	719.50

BILL OF MATERIAL

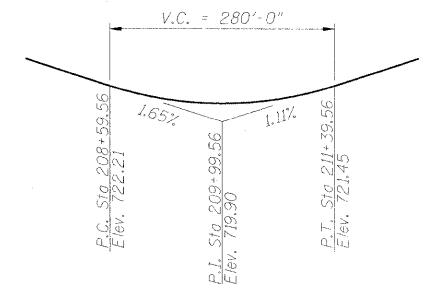
Pay Item	Unit	Quantity
Stone Riprap, Class A3	Sq. Yd.	12
Filter Fabric	Sq. Yd.	12
Structure Excavation	Cu. Yd.	760
Pipe Handrail	Foot	420
Concrete Gutter, Type B	Foot	420
Segmental Concrete Block Wall	Sq. Ft.	3,050



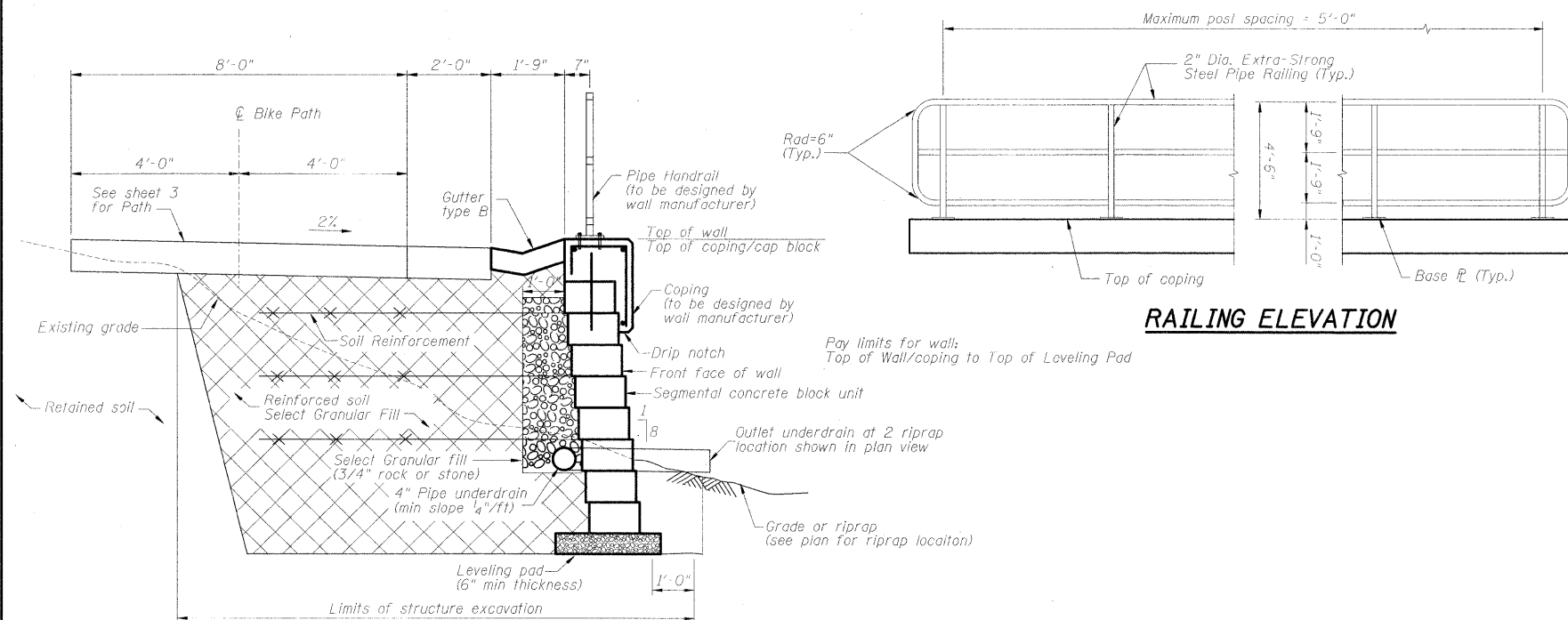
ELEVATION



PLAN

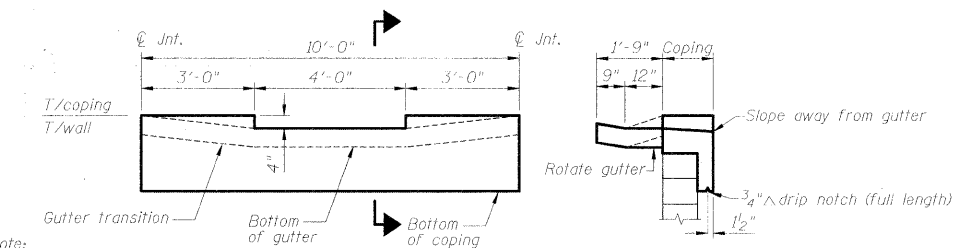


PROFILE GRADE



RAILING ELEVATION

TYPICAL WALL SECTION



GUTTER OUTLET

SECTION THRU OUTLET

NOTES:

- All concrete shall have a minimum compressive strength of 3,500 psi.
- All exposed concrete edges shall have a 3/4" x 3/4" chamfer.
- All reinforcement shall be epoxy coated and conform to the requirements of AASTHO M31, M42 or M53 Grade 60 deformed bars.
- Clear cover on all reinforcement shall be 2"
- All backfill material shall be compacted to at least 95% of Standard Proctor density.
- All construction joints shall be bonded.
- Wall shall be designed to accommodate a surcharge of 240 psf.
- Railing shall be designed per AASTHO Bicycle Rail Loading of 50 pounds per foot.
- All posts, rails, splices, and plates shall be galvanized according to AASTHO M111.
- Depth of leveling pad to be determined by manufacturer. For quantity purposes the top of leveling pad is assumed to be 1' below grade along front face of wall.
- Cost of coping and any necessary reinforcement, including design, is included in the cost of "Segmental Concrete Block Wall."
- Cost of any necessary concrete collar and reinforcement is included in the cost of "Segmental Concrete Block Wall."
- Cost of Pipe underdrain and outlet pipe is included in the cost of "Segmental Concrete Block Wall."

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

FILE NAME = H:\0901\94\09\CADD Sheets\rvw01.dgn	USER NAME = jehrbart	DESIGNED - JCE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	104TH AVENUE BICYCLE PATH SEGMENTAL CONCRETE BLOCK WALL	F.A.U. R.T.E. = 2696	SECTION = 09-00067-00-BT	COUNTY = COOK	TOTAL SHEETS = 15	SHEET NO. = 6	
PLOT SCALE = 1:20	CHECKED - GEK	REVISIONS	SCALE:			SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			
PLOT DATE = 11/30/2009	DATE = 12/01/09	REVISIONS									
CONTRACT NO. 63434											

W Wang Engineering, INC.
 Consulting Geotechnical and Environmental Engineers
 wangeng3@wangeng.com
 1145 Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

BORING LOG R-04
 WEI Job No.: 201-22-01
 Client: **McDonough Associates, Inc.**
 Project: **104th Avenue Reconstruction**
 Location: **Orland Park, Cook County, IL**

Datum: NGVD
 Elevation: 721.14 ft
 North: 9945.00 ft
 East: 17.80 ft
 Station: 99+45
 Offset: 17.8' RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	N Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
720.1	12-inch thick, black CLAY LOAM														
	-TOPSOIL-														
	Soft to medium stiff, black and dark gray CLAY														
	-FILL-														
		1		1	4	0.70	23								
		2		2	3										
		3		3	3										
		4		4	3										
		5		5	3										
		2		2	2	0.25	19								
		3		3	3										
		4		4	3										
		5		5	4										
		2		2	2	0.50	26								
		3		3	3										
		4		4	4										
		5		5	5										
713.6	Hard, brown CLAY														
		4		4	2	4.70	21								
		5		5	8										
		10		10	11										
		2		2	2	4.80	19								
		3		3	3										
		5		5	5										
		10		10	10										
710.1	Boring terminated at 11.00 ft														

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	01-31-2005	Complete Drilling	01-31-2005	While Drilling	☑	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV	At Completion of Drilling	☑	DRY	
Driller	K & A	Logger	B. Panozzo	Time After Drilling	NA		
Checked by	MLS			Depth to Water	☑	NA	
Drilling Method	3.25 IDA HSA; Boring backfilled upon completion			The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual			

W Wang Engineering, INC.
 Consulting Geotechnical and Environmental Engineers
 wangeng3@wangeng.com
 1145 Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

BORING LOG R-05
 WEI Job No.: 201-22-01
 Client: **McDonough Associates, Inc.**
 Project: **104th Avenue Reconstruction**
 Location: **Orland Park, Cook County, IL**

Datum: NGVD
 Elevation: 723.12 ft
 North: 10245.00 ft
 East: -18.90 ft
 Station: 102+45
 Offset: 18.9' LT

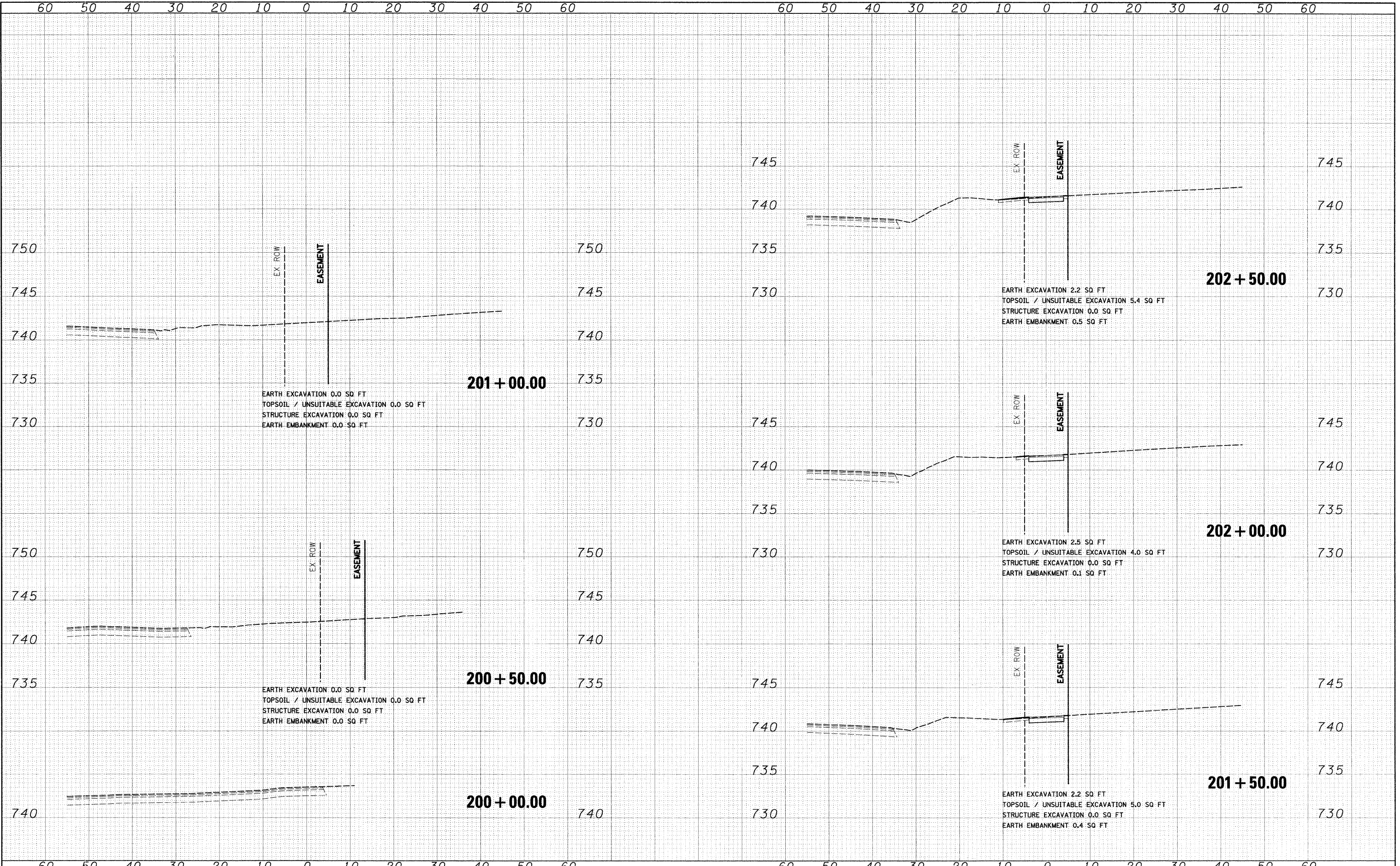
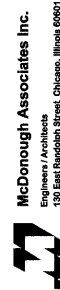
Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	N Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
722.84	12-inch thick, black CLAY LOAM														
	-TOPSOIL-														
	Hard, brown CLAY														
	-FILL-														
720.9	Hard, brown CLAY														
		1		1	4	4.50	13								
		5		5	7										
		11		11	11										
		2		2	10	4.50	19								
		12		12	12										
		15		15	15										
		5		5	15	4.50	20								
		20		20	20										
		25		25	25										
		32		32	32										
715.6	Medium dense, brown SANDY LOAM														
715.1	Hard, brown CLAY														
		4		4	5	4.50	17								
		10		10	10										
		14		14	14										
		19		19	19										
		10		10	8	NP	13								
		15		15	15										
712.6	Medium dense, brown SANDY LOAM														
712.1	Boring terminated at 11.00 ft														

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	01-28-2005	Complete Drilling	01-28-2005	While Drilling	☑	DRY	
Drilling Contractor	Patrick Drilling	Drill Rig	CME 75 ATV	At Completion of Drilling	☑	DRY	
Driller	K & A	Logger	K. Jacob	Time After Drilling	NA		
Checked by	MLS			Depth to Water	☑	NA	
Drilling Method	3.25 IDA HSA; Boring backfilled upon completion			The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual			

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

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

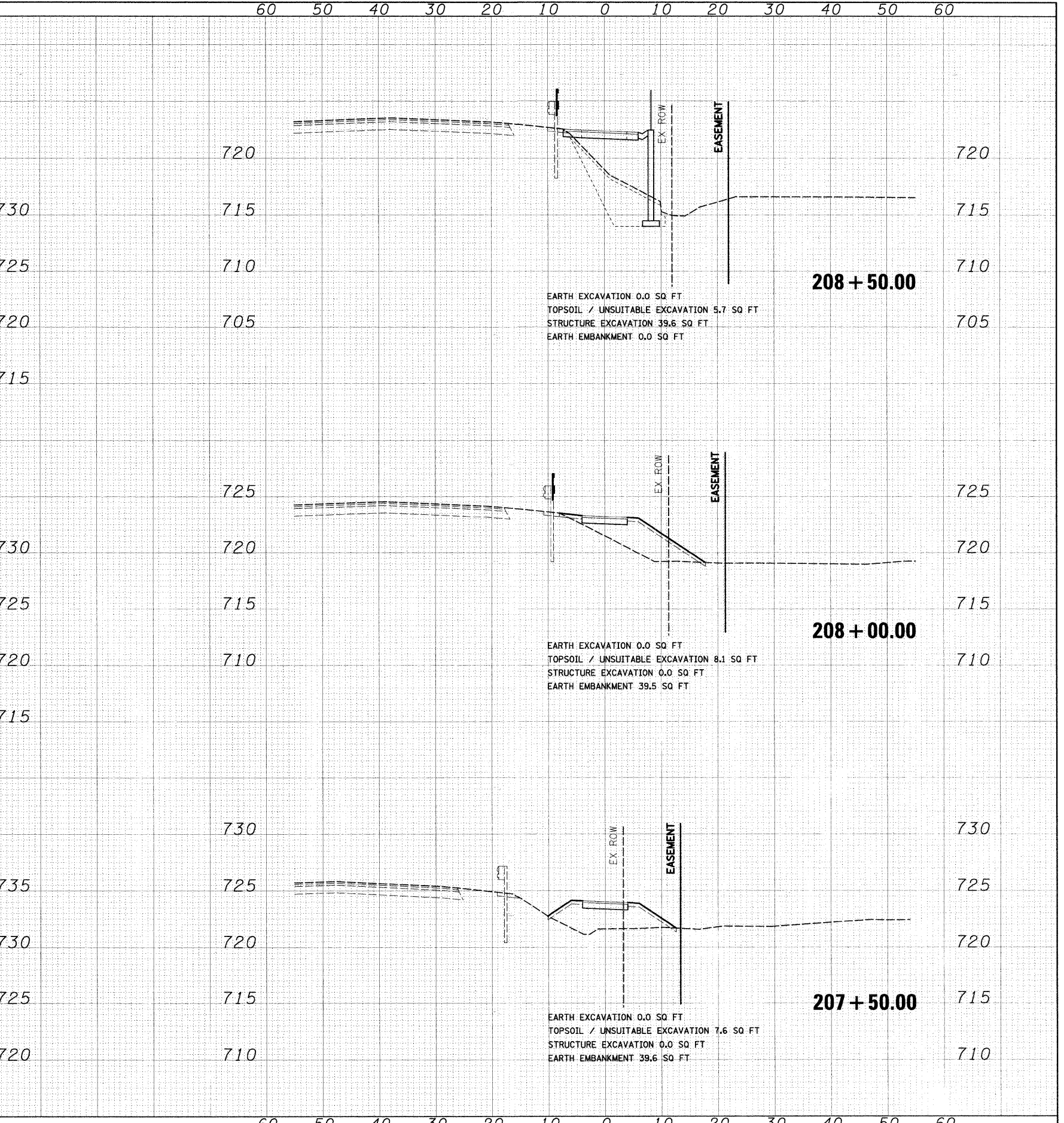
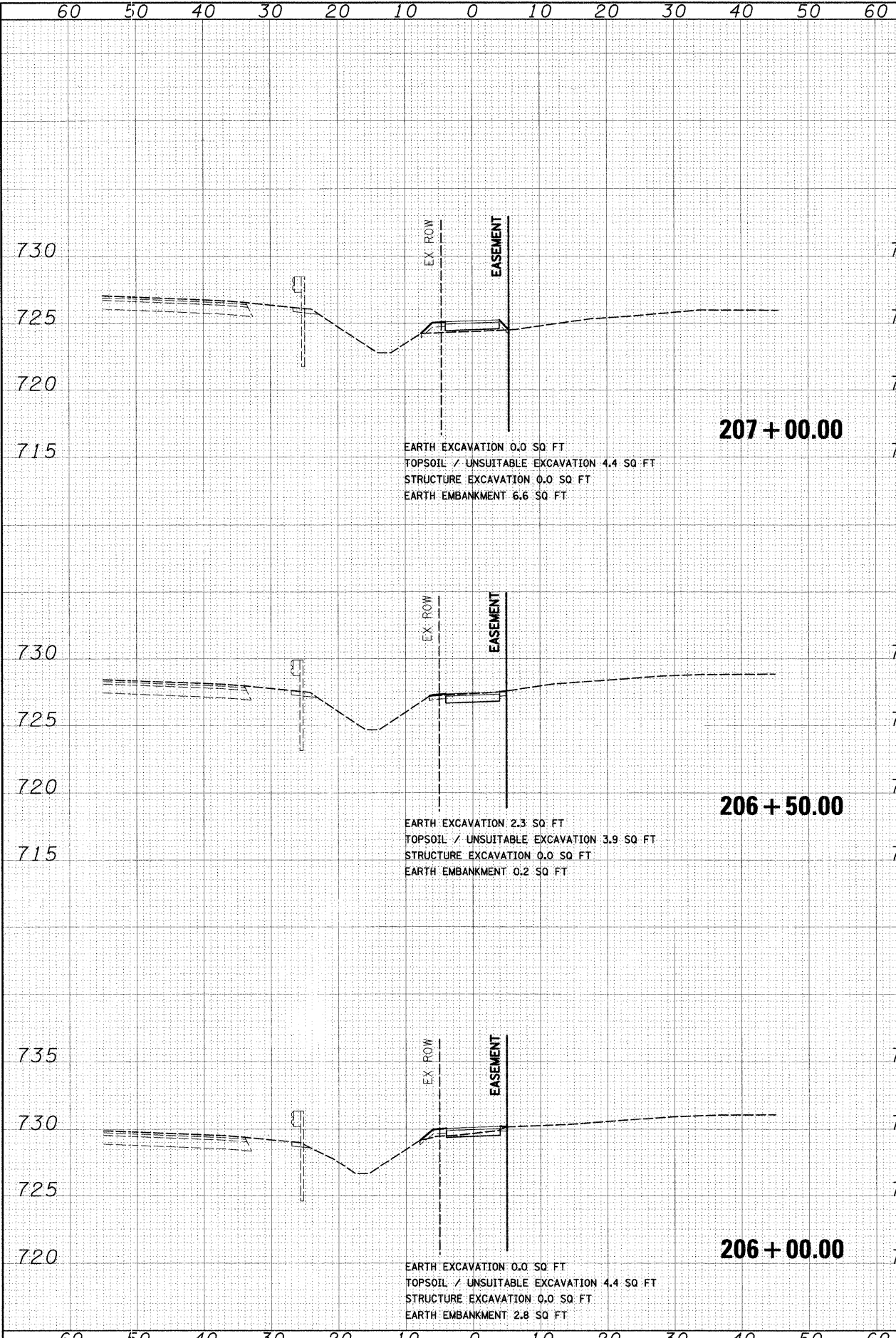
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BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED



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PLOT SCALE = 1:10	CHECKED - RY	DATE - 12/01/09	REVISED -			CONTRACT NO. 63434 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
PLOT DATE = 11/30/2009	DATE - 12/01/09	REVISED -	REVISED -								

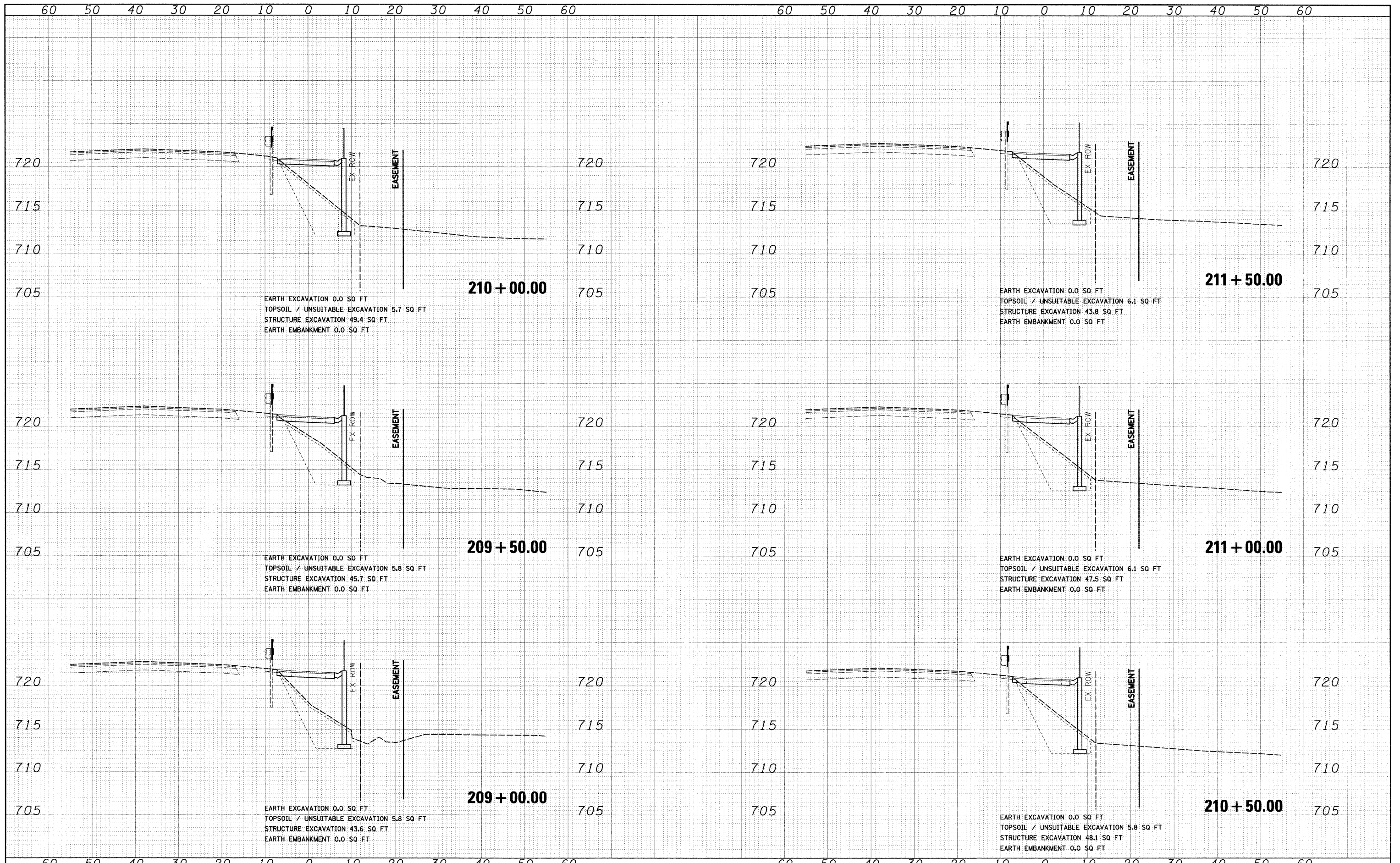
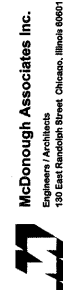
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DESIGNED - MJT
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DATE - 12/01/09
REVISED -
REVISED -
REVISED -
REVISED -

DATE
BY
DESIGNED - MJT
DRAWN - MJT
CHECKED - RY
DATE - 12/01/09
REVISED -
REVISED -
REVISED -
REVISED -



DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
FILE NAME	
USER NAME	
DESIGNED	
DRAWN	
CHECKED	
DATE	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
FILE NAME	
USER NAME	
DESIGNED	
DRAWN	
CHECKED	
DATE	



EARTH EXCAVATION 0.0 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 5.7 SQ FT
 STRUCTURE EXCAVATION 49.4 SQ FT
 EARTH EMBANKMENT 0.0 SQ FT

EARTH EXCAVATION 0.0 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 6.1 SQ FT
 STRUCTURE EXCAVATION 43.8 SQ FT
 EARTH EMBANKMENT 0.0 SQ FT

EARTH EXCAVATION 0.0 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 5.8 SQ FT
 STRUCTURE EXCAVATION 45.7 SQ FT
 EARTH EMBANKMENT 0.0 SQ FT

EARTH EXCAVATION 0.0 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 6.1 SQ FT
 STRUCTURE EXCAVATION 47.5 SQ FT
 EARTH EMBANKMENT 0.0 SQ FT

EARTH EXCAVATION 0.0 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 5.8 SQ FT
 STRUCTURE EXCAVATION 43.6 SQ FT
 EARTH EMBANKMENT 0.0 SQ FT

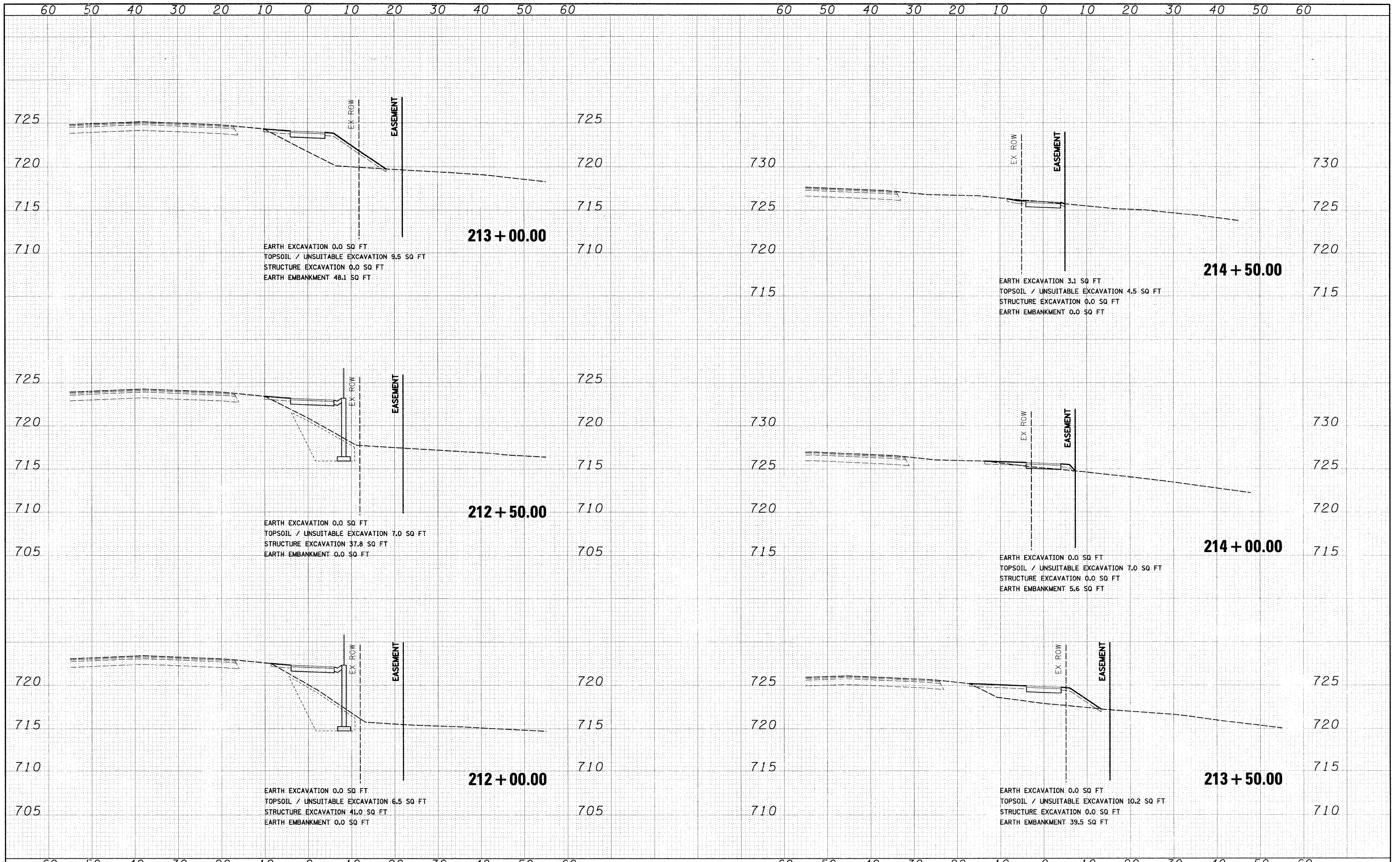
EARTH EXCAVATION 0.0 SQ FT
 TOPSOIL / UNSUITABLE EXCAVATION 5.8 SQ FT
 STRUCTURE EXCAVATION 48.1 SQ FT
 EARTH EMBANKMENT 0.0 SQ FT

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PLOT SCALE = 1:10	PLOT DATE = 11/30/2009	DRAWN - MJT	REVISED -			SCALE: 1"=10'H; 1"=5'V SHEET NO. 4 OF 8 SHEETS	STA. 209+00.00 TO STA. 211+50.00	CONTRACT NO. 63434		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	
		CHECKED - RY	REVISED -								
		DATE - 12/01/09	REVISED -								

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
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FILE NAME	
USER NAME	
PLOT SCALE	
PLOT DATE	

DATE	
BY	
DESIGNED	
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DATE	
FILE NAME	
USER NAME	
PLOT SCALE	
PLOT DATE	

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 180 East Randolph Street Chicago, Illinois 60601

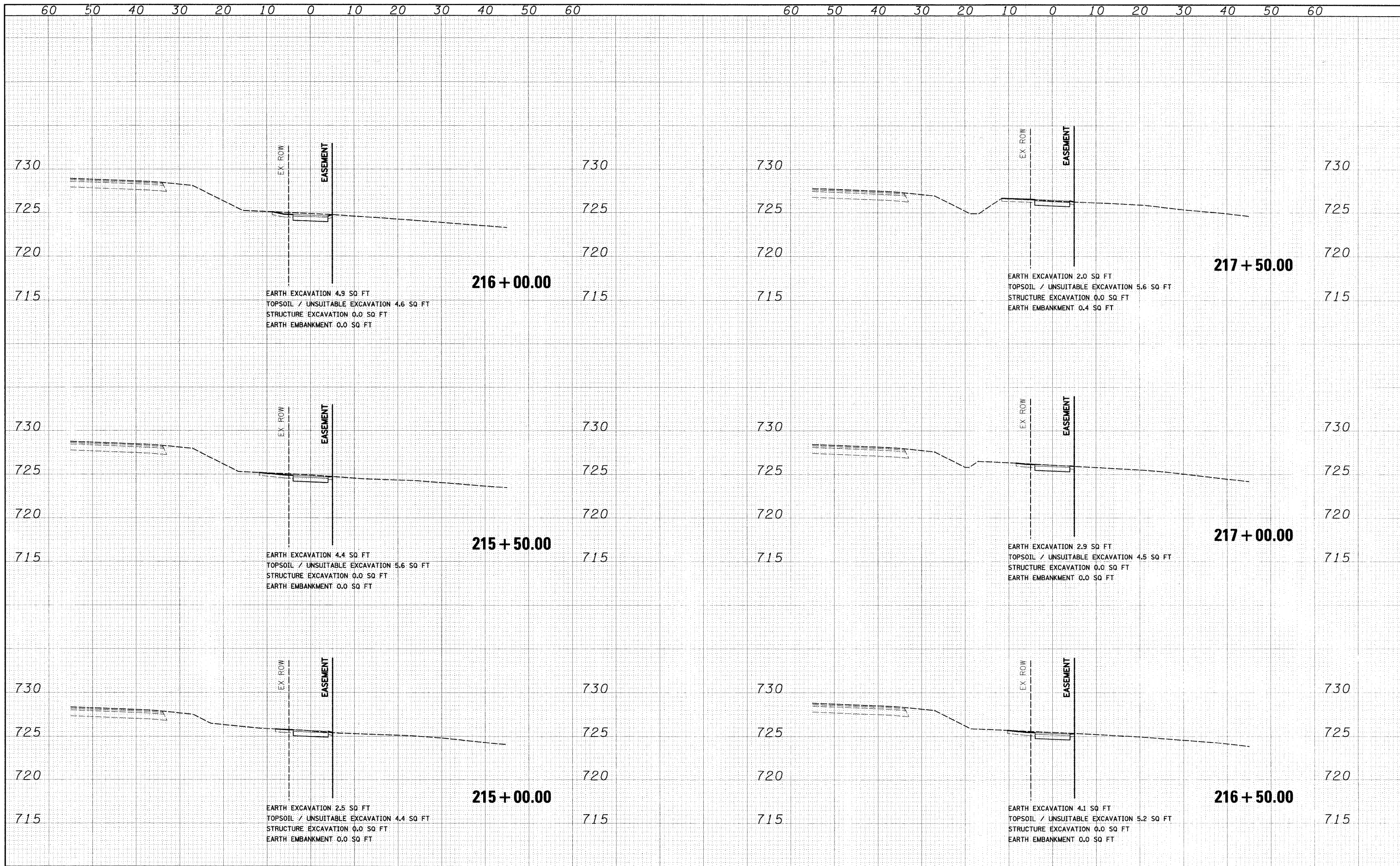


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PLOT SCALE = 1:10	PLOT DATE = 11/30/2009	DRAWN - MJT	REVISED -			SCALE: 1"=10'H; 1"=5'V SHEET NO. 5 OF 8 SHEETS	STA. 212+00.00 TO STA. 214+50.00	CONTRACT NO. 63434		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	
		CHECKED - RY	REVISED -								
		DATE - 12/01/09	REVISED -								

DATE	
BY	
DESIGNED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
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TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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 100 East Randolph Street Chicago, Illinois 60601

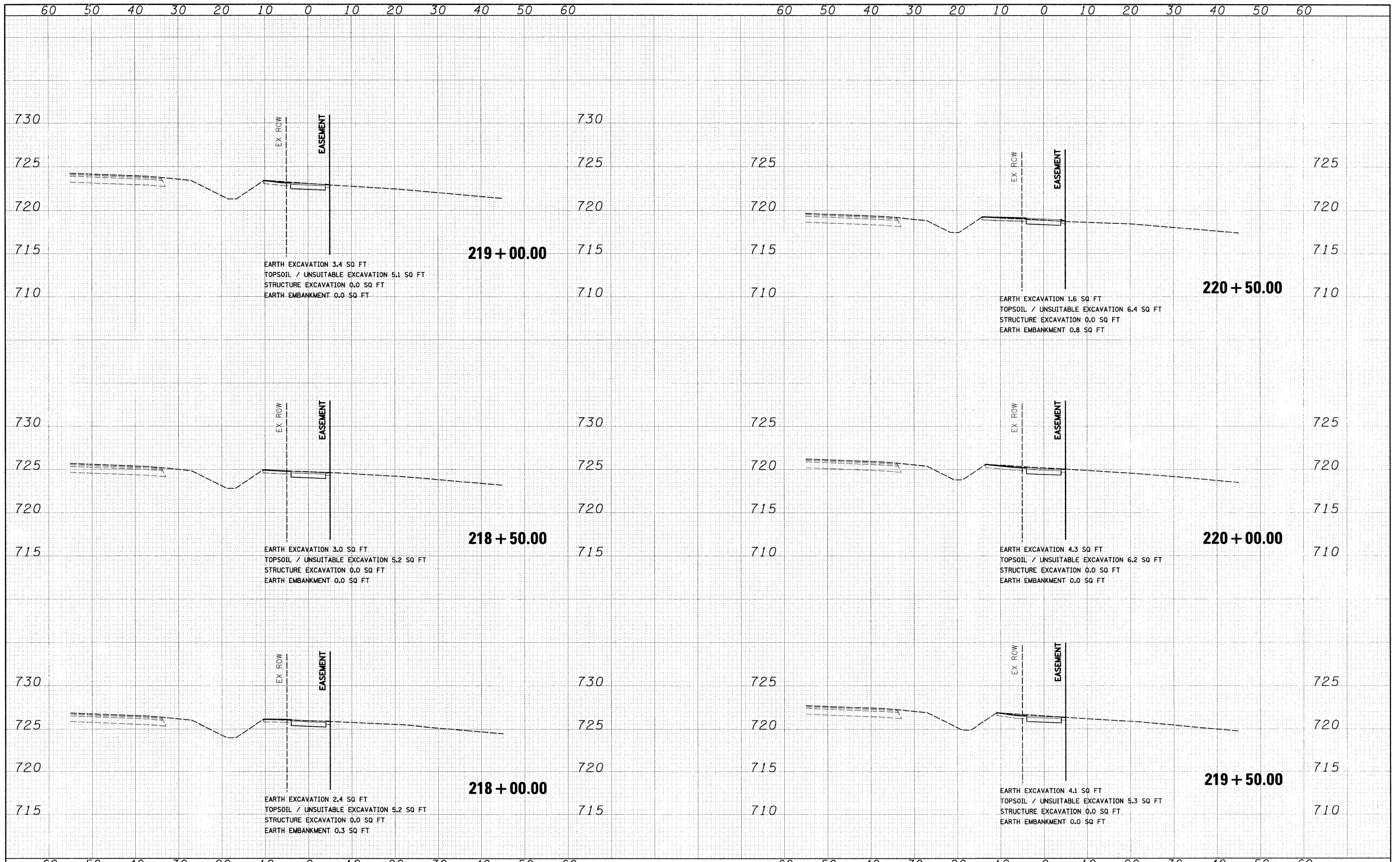


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H:\Dgn\10400_Sheets\10400.dgn	PLOT SCALE = 1:100	DRAWN - MJT	REVISED -			2696	09-00067-00-BT	COOK	15	13	
PLOT DATE = 11/30/2009	DATE = 12/01/09	CHECKED - RY	REVISED -			CONTRACT NO. 63434					
		DATE = 12/01/09	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

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PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
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TEMPLATE	
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ORIGINAL SURVEY	
NOTE BOOK	
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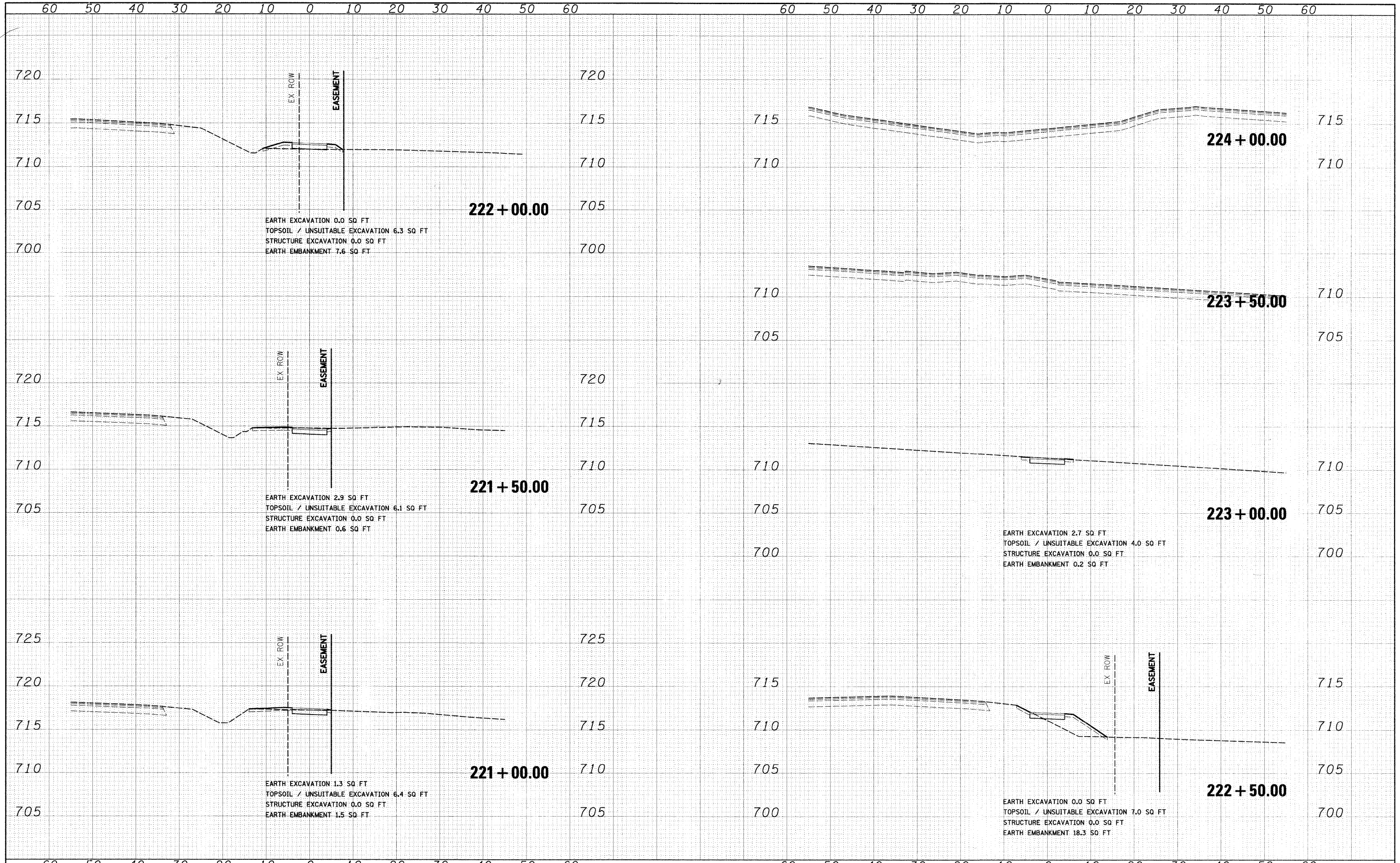
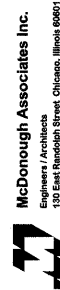
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FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	104TH AVENUE BICYCLE PATH CROSS SECTIONS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
h:\n\cadd\Sheets\104th\104th.dwg	MTomazo	DRAWN -	REVISED -			2696	09-00067-00-BT	COOK	15	14	
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		DATE -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

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SURVEY	
NOTE BOOK	
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FILE NAME - I:\Dgn\CADD Sheets\ss001.dgn	USER NAME - MTomasza	DESIGNED - MJT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	104TH AVENUE BICYCLE PATH CROSS SECTIONS SCALE: 1"=10'H; 1"=5'V SHEET NO. 8 OF 8 SHEETS STA. 221+00.00 TO STA. 224+00.00	F.A.U. RTE. 2696	SECTION 09-0067-00-BT	COUNTY COOK	TOTAL SHEETS 15	SHEET NO. 15
PLOT SCALE - 1:10	PLOT DATE - 11/30/2009	DRAWN - MJT	REVISED -			CONTRACT NO. 63434				
CHECKED - RY	DATE - 12/01/09	REVISIONS								