

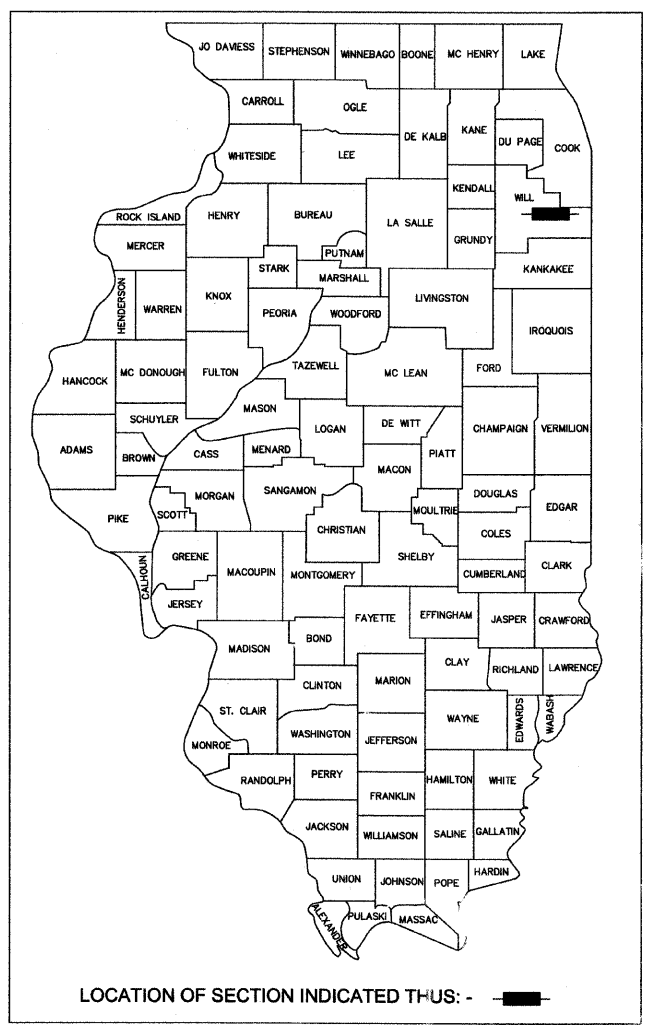
Melchor Mungoba (847)705-4408
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	1
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 63316	* EXCHANGE STREET	** 09-00044-01-TL		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
 FEDERAL AID HIGHWAY

FAU 1638 EXCHANGE STREET
 AT INDEPENDENCE BLVD
 SURFACE TRANSPORTATION URBAN
 INTERSECTION IMPROVEMENT
 PROJECT: M-9003 (427)
 SECTION: 09-00044-01-TL
 JOB NO: C-91-858-09
 VILLAGE OF CRETE
 WILL COUNTY

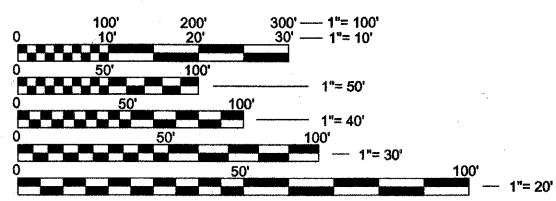


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STANDARDS

280001-05	TEMPORARY EROSION CONTROL SYSTEMS
424001-05	CURB RAMPS FOR SIDEWALKS
542301-02	PRECAST REINFORCED CONCRETE FLARED END SECTION
602001-01	CATCH BASIN TYPE A
602301-02	INLET TYPE A
604016-02	FRAME AND GRATE TYPE 4
604036-02	GRATE TYPE 8
604061-02	FRAME AND GRATE TYPE 12
604091-02	FRAME AND GRATE TYPE 24
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606006-02	OUTLETS FOR CONC. CURB AND GUTTER TYPE B-6.24 (B-15.60)
630001-08	STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
701001-02	OFF-RD OPERATIONS, 2L, 2W, 15' MIN FROM PAVEMENT EDGE
701006-03	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-05	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-03	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701701-06	URBAN LANE CLOSURE, MULTI LANE INTERSECTION
701801-04	LANE CLOSURE, MULTI LANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNT DETAILS
720006-02	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
720021-02	SIGN PANELS - EXTRUDED ALUMINUM TYPE
729001-01	APPLICATION OF TYPES A & B POSTS
805001-01	ELECTRIC SERVICE INSTALLATION DETAILS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS & PHASE SEQUENCE
878001-08	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNT DETAILS - POST & BRACKET MOUNT
886001-01	DETECTOR LOOP INSTALLATION
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

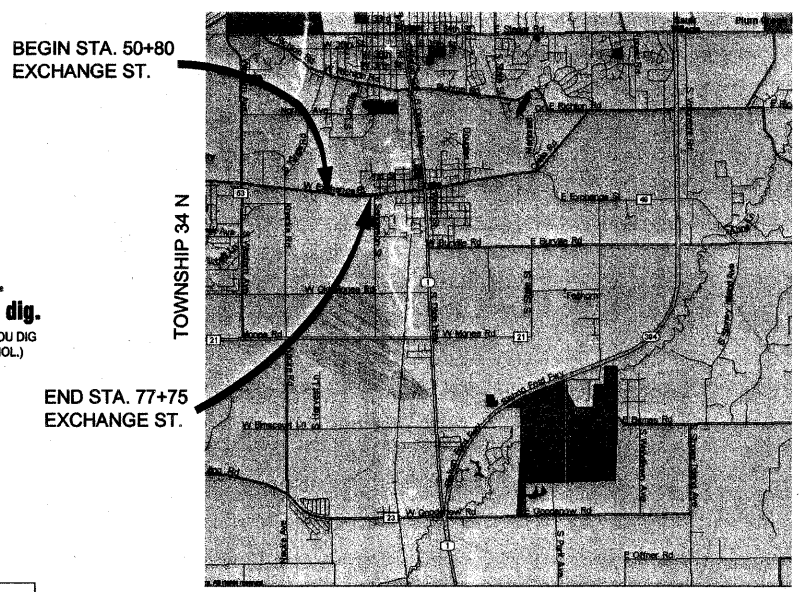


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

BENCHMARK
 WILL COUNTY CONTROL MONUMENT,
 STATION NAME 1518:
 NGS 3-D MARKER CONSISTING OF 9/16"
 DIA. STAINLESS STEEL ROD INSIDE
 GREASE FILLED 1" DIA PVC, DRIVEN
 TO A REFUSAL DEPTH OF 8 FEET
 ENCLOSED IN SAND AND 6" PVC PIPE
 WITH ALUMINUM ACCESS COVER.
 ELEV=751.009

LOCAL BENCHMARK
 STA. 52+78.7, 39.4' RT.
 5/8" IRON ROD
 ELEV = 722.11

CONTRACT NO. 63316



LOCATION MAP
 NOT TO SCALE

GROSS LENGTH = 2,695 FT. = 0.510 MILE
 NET LENGTH = 2,695 FT. = 0.510 MILE

EXCHANGE STREET COLLECTOR
 ADT = 7,980 (2010)
 DESIGN SPEED = 40 MPH
 SPEED LIMIT = 35 MPH

REVISIONS			
NO.	NAME	SHEETS	DATE
1	PER IDOT	ALL SHEETS	8-13-09
2	PER IDOT	ALL SHEETS	10-29-09

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

MC BRIDE ENGINEERING, INC.
 CIVIL ENGINEERS & SURVEYORS
 ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803
 CORPORATION
 3649 W. 183rd Street Suite 124
 Hazel Crest, IL 60429-2409
 708-799-1350
 ARLINGTON HEIGHTS DIVISION
 320 S. Belmont Avenue
 Arlington Heights, IL 60005-2038
 847-394-4810
 MEI PROJECT: 04119.806 SCALE: NONE

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION DIVISION OF
 HIGHWAYS

APPROVED 11-02-09
Michael...
 LOCAL AGENCY POSITION

PASSED NOVEMBER 03, 2009
C. H. ...
 DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
 BASED ON LIMITED
 REVIEW
NOVEMBER 3, 2009
Diana M. O'Keefe
 DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

VILLAGE OF CRETE
 EXCHANGE STREET IMPROVEMENTS
 CRETE, WILL COUNTY, ILLINOIS

COVER SHEET

DATE: 7-3-09
 DRAWN BY: PG/ADM
 CHECKED BY: LGB

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	2
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE TYPE	
				I000-2A	Y031-1F
				ROADWAY	TRAFFIC SIGNALS
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	96	96	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	58	58	
* 20200100	EARTH EXCAVATION	CU YD	9,410	9,410	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	CU YD	50	50	
* 20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	50	50	
20800150	TRENCH BACKFILL	CU YD	20	20	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	150	150	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	15,700	15,700	
25000100	SEEDING, CLASS 1	ACRE	0.12	0.12	
25000210	SEEDING, CLASS 2A	ACRE	3.25	3.25	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	300	300	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	300	300	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	300	300	
25100630	EROSION CONTROL BLANKET	SQ YD	15,700	15,700	
* 28000255	TEMPORARY EROSION CONTROL SEEDING	ACRE	3.25	3.25	
* 28000305	TEMPORARY DITCH CHECKS	FOOT	2,600	2,600	
* 28000400	PERIMETER EROSION BARRIER	FOOT	5,900	5,900	
28000500	INLET AND PIPE PROTECTION	EACH	10	10	
28100105	STONE RIPRAP, CLASS A3	SQ YD	140	140	
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	1,567	1,567	
31101810	SUB-BASE GRANULAR MATERIAL, TYPE B 12"	SQ YD	5,616	5,616	
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	600	600	
35102200	AGGREGATE BASE COURSE, TYPE B 10"	SQ YD	1,515	1,515	
35102400	AGGREGATE BASE COURSE, TYPE B 12"	SQ YD	192	192	
35501320	HOT-MIX ASPHALT BASE COURSE, 9"	SQ YD	498	498	
35600712	HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	SQ YD	5,260	5,260	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	100	100	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	760	760	
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	300	300	
40600895	CONSTRUCTING TEST STRIP	EACH	1	1	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	80	80	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	1,032	1,032	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	1,337	1,337	
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	157	157	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	10,391	10,391	
42400800	DETECTABLE WARNINGS	SQ FT	120	120	
* 44000198	HOT-MIX ASPHALT SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	1,900	1,900	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,150	1,150	
44000600	SIDEWALK REMOVAL	SQ FT	500	500	
* 44300900	STRIP REFLECTIVE CRACK CONTROL TREATMENT SYSTEM A	FOOT	4,500	4,500	
* 48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	2,200	2,200	
50105220	PIPE CULVERT REMOVAL	FOOT	153	153	
* 50900810	PEDESTRIAN RAIL (SPECIAL)	FOOT	435	435	
54200643	PIPE CULVERTS, TYPE 1, CORRUGATED STEEL OR ALUMINUM CULVERT PIPE 18"	FOOT	5	5	
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1	
550A0940	STORM SEWERS, CLASS A, TYPE 4 12"	FOOT	477	477	
55100500	STORM SEWER REMOVAL 12"	FOOT	8	8	
55100900	STORM SEWER REMOVAL 18"	FOOT	6	6	
* 56107200	REMOVE AND RELOCATE WATER MAIN 8"	FOOT	500	500	
56400400	FIRE HYDRANTS TO BE RELOCATED	EACH	3	3	
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	3	3	
60201205	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 12 FRAME AND GRATE	EACH	2	2	
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3	
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	2	2	
60404950	FRAMES AND GRATES, TYPE 24	EACH	1	1	
60500050	REMOVING CATCH BASINS	EACH	2	2	
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	3	3	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	834	834	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1,796	1,796	
60609200	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.12	FOOT	644	644	
63200310	GUARDRAIL REMOVAL	FOOT	650	650	
* 63300725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	450	450	
67100100	MOBILIZATION	L SUM	1	1	

* SPECIAL PROVISION
** SPECIALTY ITEM

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

MC BRIDE ENGINEERING, INC.
 CIVIL ENGINEERS & SURVEYORS
 ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803
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 Hazel Crest, IL 60429-2409
 708-799-1350
 ARLINGTON HEIGHTS DIVISION
 320 S. Belmont Avenue
 Arlington Heights, IL 60005-2038
 847-394-4810

MEI PROJECT: 04119.806 SCALE: NONE

VILLAGE OF CRETE
 EXCHANGE STREET IMPROVEMENTS
 CRETE, WILL COUNTY, ILLINOIS

SUMMARY OF QUANTITIES

DATE: 7-3-09

DRAWN BY: PG/ADM
 CHECKED BY: LGB

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	3
STA.		TO STA.		
FED. ROAD DIST. NO. -		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE TYPE		
				I000-2A	Y031-1F	
				ROADWAY	TRAFFIC SIGNALS	
*	70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1	
	70300320	PAVEMENT MARKING TAPE, TYPE 1 4"	FOOT	3,000	3,000	
	72000200	SIGN PANEL, TYPE 2	SQ FT	45		45
**	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	360	360	
**	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,350	1,350	
**	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	950	950	
**	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1,100	1,100	
**	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	120	120	
**	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	145	145	
**	81000600	CONDUIT IN TRENCH 2" DIA., GALVANIZED STEEL	FOOT	531		531
**	81000700	CONDUIT IN TRENCH 2 1/2" DIA., GALVANIZED STEEL	FOOT	66		66
**	81000800	CONDUIT IN TRENCH 3" DIA., GALVANIZED STEEL	FOOT	164		164
**	81018500	CONDUIT PUSHED 2" DIA., GALVANIZED STEEL	FOOT	25		25
**	81018900	CONDUIT PUSHED 4" DIA., GALVANIZED STEEL	FOOT	167		167
**	81400100	HANDHOLE	EACH	6		6
**	81400200	HEAVY-DUTY HANDHOLE	EACH	4		4
**	81400300	DOUBLE HANDHOLE	EACH	1		1
**	85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1		1
**	87301215	ELECTRIC CABLE IN CONDUIT SIGNAL NO. 14 2C	FOOT	1,133		1,133
**	87301225	ELECTRIC CABLE IN CONDUIT SIGNAL NO. 14 3C	FOOT	1,316		1,316
**	87301245	ELECTRIC CABLE IN CONDUIT SIGNAL NO. 14 5C	FOOT	1,273		1,273
**	87301255	ELECTRIC CABLE IN CONDUIT SIGNAL NO. 14 7C	FOOT	717		717
**	87301305	ELECTRIC CABLE IN CONDUIT, LEAD IN, NO. 14 1 PAIR	FOOT	1,546		1,546
**	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2C	FOOT	21		21
**	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	EACH	4		4
**	87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT	EACH	2		2
**	87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT	EACH	1		1
**	87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT	EACH	1		1
**	87800100	CONCRETE FOUNDATION TYPE A	FOOT	16		16
**	87800215	CONCRETE FOUNDATION TYPE D	EACH	1		4
**	87800400	CONCRETE FOUNDATION TYPE E 30" DIAMETER	FOOT	60		60
**	88030020	SIGNAL HEAD, LED, 1-FACE, 3 SECTION MAST ARM MOUNTED	EACH	4		4
**	88030100	SIGNAL HEAD, LED, 1-FACE, 5 SECTION BRACKET MOUNTED	EACH	4		4
**	88030110	SIGNAL HEAD, LED, 1-FACE, 5 SECTION MAST ARM MOUNTED	EACH	4		4
**	88102710	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE BRACKET MOUNTED	EACH	8		8
**	88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8		8
**	88500100	INDUCTIVE LOOP DETECTOR	EACH	8		8
**	88600100	DETECTOR LOOP, TYPE 1	FOOT	627		627
**	88700200	LIGHT DETECTOR	EACH	2		2
**	88700300	LIGHT DETECTOR AMPLIFIER	EACH	1		1
**	88800100	PEDESTRIAN PUSH BUTTON	EACH	8		8
*	Z0022800	FENCE REMOVAL	FOOT	615	615	
*	Z0062000	SAWCUTTING	FOOT	4,500	4,500	
Δ	Z0076600	TRAINEES	FOOT	500	500	
*	XX003412	REMOVAL AND REINSTALLATION OF EXISTING TRAFFIC BARRIER TERMINAL, SPECIAL	EACH	2	2	
*	XX006066	SIGN TO BE RELOCATED	EACH	30	30	
*	X0322011	LIGHT POLE REMOVE AND RE-ERECT	EACH	1	1	
*	X0322033	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	240	240	
**	X0323153	ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C (GREEN)	FOOT	1,509		1,509
**	X0323370	TRAFFIC SIGNAL BATTERY BACKUP	EACH	1		1
**	X8050015	SERVICE INSTALLATION, POLE MOUNTED	EACH	1		1
**	X8730250	ELECTRIC CABLE IN CONDUIT, NO. 20 3/C TWISTED, SHIELDED	FOOT	1,519		1,519
*	XX008240	SUB-BASE GRANULAR MATERIAL, TYPE B 4 3/4"	SQ YD	200	200	
*	XX008241	RELOCATE 18" METAL END SECTION	EACH	1	1	

Δ 4080

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* SPECIAL PROVISION
** SPECIALTY ITEM

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

MC BRIDE ENGINEERING, INC.
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 ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803
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 Hazel Crest, IL 60429-2409
 708-799-1350

ARLINGTON HEIGHTS DIVISION
 320 S. Belmont Avenue
 Arlington Heights, IL 60005-2038
 847-394-4810

MEI PROJECT: 04119.B06 SCALE: NONE

**VILLAGE OF CRETE
EXCHANGE STREET IMPROVEMENTS**
 CRETE, WILL COUNTY, ILLINOIS

SUMMARY OF QUANTITIES

DRAWN BY: PG/ADM
CHECKED BY: LGB

DATE: 7-3-09

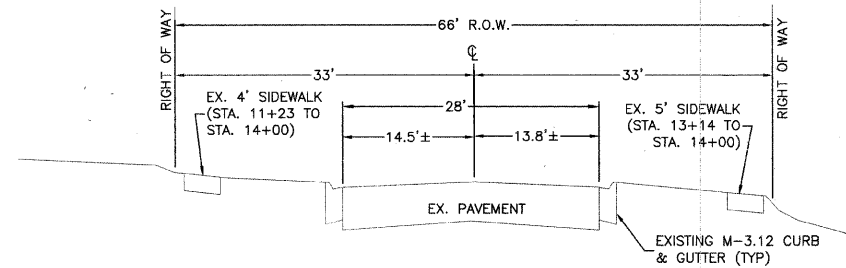
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1638*	**	WILL	38	4
STA. TO STA.				
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63316		* EXCHANGE STREET	** 09-00044-01-TL	

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE		AIR VOIDS @ Ndes
PAVEMENT RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N-50 (IL 9.5mm); 1 1/2"		4% @ 50 GYR
LEVELING BINDER (MACHINE METHOD), N-50 (IL 9.5mm); 3/4"		4% @ 50 GYR
PAVEMENT WIDENING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N-50 (IL 9.5mm); 1 1/2"		4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N-50; 2 1/2"		4% @ 50 GYR
HMA BASE COURSE WIDENING (HMA BINDER IL-19mm); 9"		4% @ 50 GYR
FLEXIBLE PAVEMENT		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N-50 (IL 9.5mm); 1 1/2"		4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N-50, 2 1/2"		4% @ 50 GYR
DRIVEWAYS - MINIMUM USE ACCESS		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N-50 (IL 9.5mm); 2 1/2"		4% @ 50 GYR
DRIVEWAYS = MAJOR ACCESS		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N-50 (IL 9.5mm); 1 1/2"		4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N-50, 2 1/2"		4% @ 50 GYR

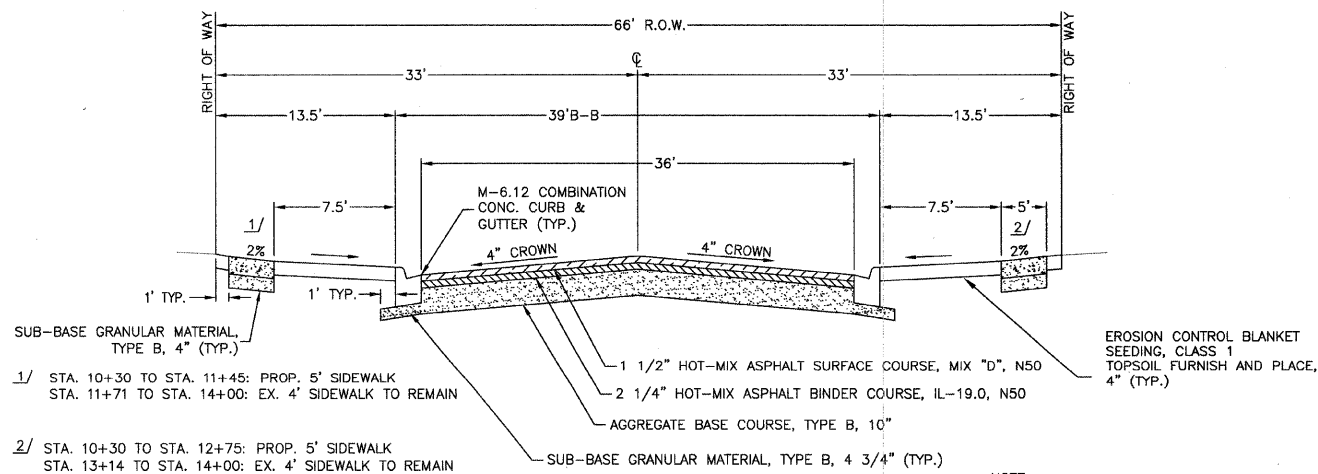
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBA PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS OTHERWISE MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.



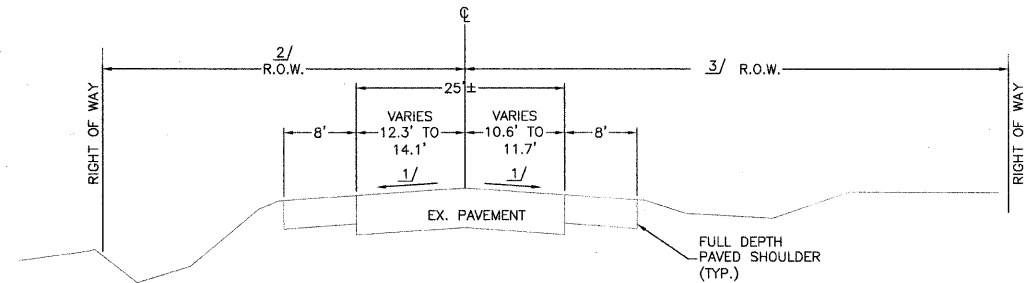
**EXISTING TYPICAL PAVEMENT SECTION
INDEPENDENCE BOULEVARD
STA. 10+25 TO STA. 14+00
N.T.S.**



**PROPOSED TYPICAL PAVEMENT SECTION
INDEPENDENCE BOULEVARD
STA. 10+25 TO STA. 14+00
N.T.S.**

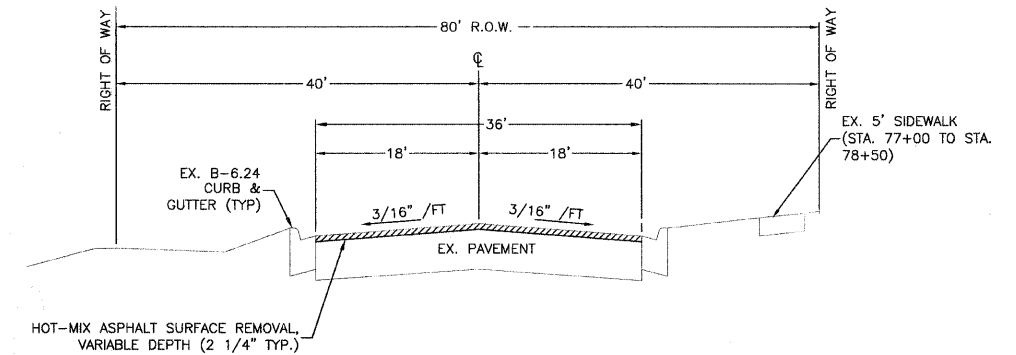
NOTE:
HOT-MIX ASPHALT SURFACE SHALL BE KEPT 1/4" ABOVE THE GUTTER FLAG AT ALL PAVEMENT EDGES.

EXISTING	PROPOSED



- 1/ STA. 62+25 TO STA. 73+00: PAVEMENT CROSS SLOPES VARY IN SUPERELEVATION AREA (SEE PLANS)
- 2/ STA. 50+80 TO STA. 66+09: 60'
STA. 66+09 TO STA. 73+00: 40'
- 3/ STA. 50+80 TO STA. 71+41: 60'
STA. 71+41 TO STA. 73+00: 40'

**EXISTING TYPICAL PAVEMENT SECTION
EXCHANGE STREET
STA. 50+80 TO STA. 73+00
N.T.S.**



**EXISTING TYPICAL PAVEMENT SECTION
EXCHANGE STREET
STA. 73+00 TO STA. 77+25
N.T.S.**

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

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ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803
CORPORATE: 3649 W. 183rd Street Suite 124, Hazel Crest, IL 60429-2409, 708-799-1350
ARLINGTON HEIGHTS DIVISION: 320 S. Belmont Avenue, Arlington Heights, IL 60005-2038, 847-394-4810

MEI PROJECT: 04119.806 SCALE: NONE

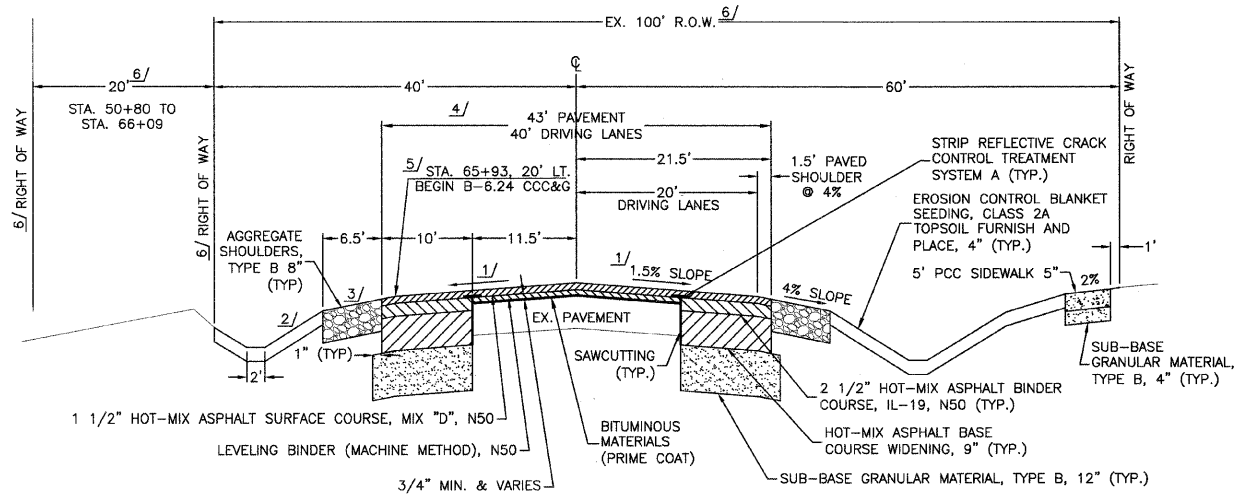
VILLAGE OF CRETE
EXCHANGE STREET IMPROVEMENTS
CRETE, WILL COUNTY, ILLINOIS

TYPICAL SECTIONS

DATE: 7-3-09

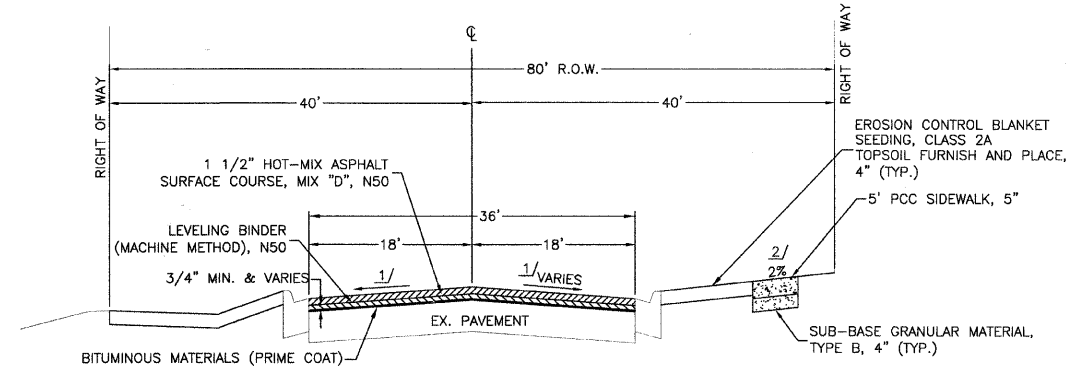
DRAWN BY: PG/ADM
CHECKED BY: LGB

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	5
STA.		TO STA.		
FED. ROAD DIST. NO. -		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		



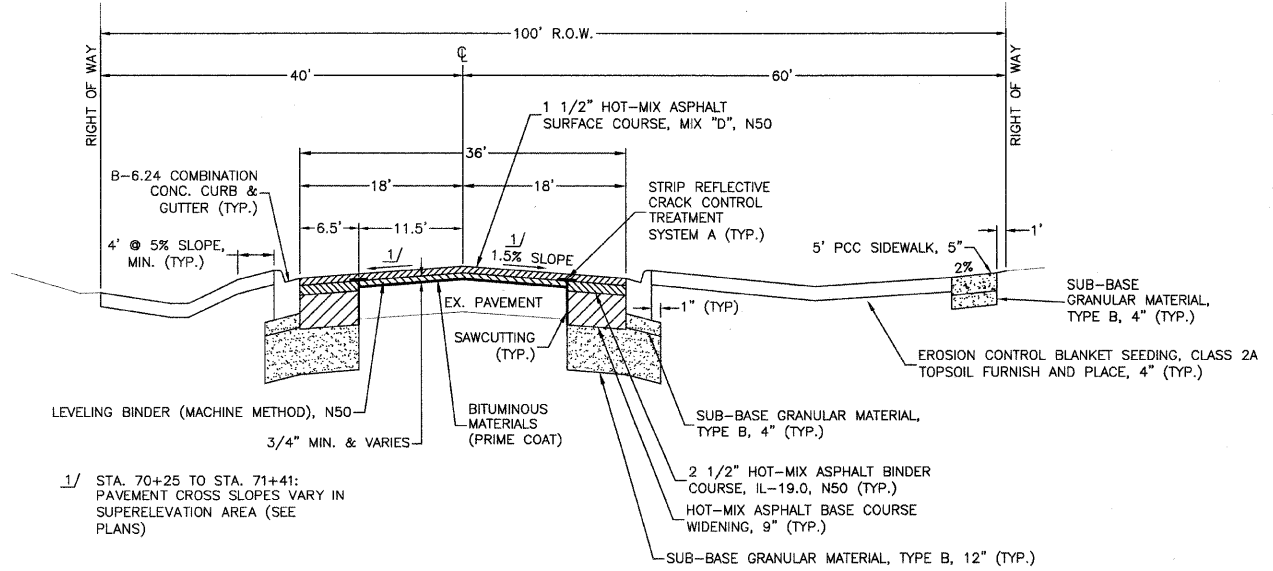
- 1/ STA. 62+25 TO STA. 65+25 AND STA. 70+25 TO STA. 73+25: PAVEMENT CROSS SLOPES VARY IN SUPERELEVATION AREA (SEE PLANS)
- 2/ STA. 50+80 TO STA. 58+50: 3:1 MIN. DITCH SLOPE
- 3/ STA. 50+80 TO STA. 54+00: SHOULDER VARIES 0' TO 6.5'
- 4/ STA. 50+80 TO STA. 54+00: PAVEMENT VARIES 40' TO 43' DRIVING LANE VARIES 24' TO 40'
- STA. 69+25 TO STA. 70+00: PAVEMENT VARIES 43' TO 36' DRIVING LANE VARIES 40' TO 36'
- 5/ STA. 65+93, LT TO STA. 70+00, LT: B-6.24 CURB & GUTTER, SEE SECTION FOR STA. 70+00 TO STA. 73+00, LOCATION VARIES 20' LT TO 18' LT
- 6/ STA. 50+80 TO STA. 66+09: 120'
STA. 66+09 TO STA. 70+00: 100'

PROPOSED TYPICAL PAVEMENT SECTION
EXCHANGE STREET
STA. 50+80 TO STA. 70+00
N.T.S.



- 1/ STA. 71+41 TO STA. 73+25: PAVEMENT CROSS SLOPES VARY IN SUPERELEVATION AREA (SEE PLANS)
- 2/ STA. 71+41 TO STA. 72+40: PROP. SIDEWALK
STA. 72+40 TO STA. 77+25: EX. SIDEWALK TO REMAIN

PROPOSED TYPICAL PAVEMENT SECTION
EXCHANGE STREET
STA. 71+41 TO STA. 77+25
N.T.S.



- 1/ STA. 70+25 TO STA. 71+41: PAVEMENT CROSS SLOPES VARY IN SUPERELEVATION AREA (SEE PLANS)

PROPOSED TYPICAL PAVEMENT SECTION
EXCHANGE STREET
STA. 70+00 TO STA. 71+41
N.T.S.

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

McBRIDE ENGINEERING, INC.
CIVIL ENGINEERS & SURVEYORS
ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803

CORPORATE: 3649 W. 183rd Street Suite 124
Hazel Crest, IL 60429-2409
708-799-1350

ARLINGTON HEIGHTS DIVISION: 320 S. Belmont Avenue
Arlington Heights, IL 60005-2038
847-394-4810

MEI PROJECT: 04119.806 SCALE: NONE

VILLAGE OF CRETE
EXCHANGE STREET IMPROVEMENTS
CRETE, WILL COUNTY, ILLINOIS

TYPICAL SECTIONS

DATE: 7-3-09

DRAWN BY: PG/ADM
CHECKED BY: LGB

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	6
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		

ENTRANCE SUMMARY									
LOCATION	PROP. WIDTH	* TYPE	SUB-BASE GRANULAR MATERIAL TYPE B, 12"	HOT-MIX ASPHALT BASE COURSE, 9"	AGG. BASE CSE, TY B, 4"	AGG. BASE CSE, TY B, 12"	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	PCC DWY PVMT, 6"
	FEET		SQ. YD.	SQ. YD.	SQ. YD.	SQ. YD.	TON	TON	
EXCHANGE STREET									
RT. STA. 54+23	24	C.E.	207	207			30	22	
LT. STA. 66+20	16	C.E.				64		9	
LT. STA. 67+00	16	C.E.				64		9	
LT. STA. 68+34	16	C.E.				64		9	
RT. STA. 71+75	24	C.E.	291	291			42	27	
INDEPENDENCE BLVD.									
RT. STA. 11+57	27.5	PRIV.			47				47
RT. STA. 11+60	24	PRIV.			40				40
RT. STA. 12+96	35.5	PRIV.			70				70
TOTAL			498	498	157	192	72	76	157

* C.E. = COMMERCIAL ENTRANCE

CURB SUMMARY			
LOCATION	PROPOSED B-6.24	PROPOSED B-6.12	PROPOSED M-6.12
	L.F.	L.F.	
EXCHANGE STREET			
LT. STA. 65+69 TO LT. STA. 71+61	623		
RT. STA. 65+79 TO RT. STA. 71+54	193		
LT. STA. 71+09 TO LT. STA. 72+99	141		
RT. STA. 71+93 TO RT. STA. 77+75	607		
INDEPENDENCE BLVD.			
LT. STA. 10+76 TO LT. STA. 14+00			324
RT. STA. 10+80 TO RT. STA. 14+00			320
ENTRANCES			
RT. STA. 54+23	107		
RT. STA. 76+94	125	102	
LT. STA. 11+57		33	
RT. STA. 11+60		30	
RT. STA. 12+96		25	
TOTAL	1,796	834	644

EARTHWORK SUMMARY				
LOCATION	CUT	FILL	FILL X C.F.*	EXCESS EXCAVATION
	C.F.	C.F.	C.F.	C.F.
EXCHANGE STREET				
STA. 50+80 TO STA. 65+50	7,485	2,065	2,581	4,904
STA. 65+50 TO STA. 73+00	1,350	850	1,063	287
INDEPENDENCE BLVD.				
STA. 10+50 TO STA. 14+00	575	56	70	505
TOTAL	9,410	2,971	3,714	5,696

* C.F. = COMPACTION FACTOR 1.25

SIDEWALK SUMMARY		
LOCATION	PROPOSED PCC SIDEWALK, 5"	SIDEWALK REMOVAL
	SQ. FT.	SQ. FT.
EXCHANGE STREET		
RT. STA. 52+74 TO RT. STA. 65+50	5,630	
RT. STA. 65+50 TO RT. STA. 71+40	3,160	
RT. STA. 72+02 TO RT. STA. 72+40	240	240
INDEPENDENCE BLVD.		
RT. STA. 10+18 TO RT. STA. 12+75	644	260
LT. STA. 10+18 TO LT. STA. 11+43	717	
TOTAL	10,391	500

TREE REMOVAL			
STATION	OFFSET	INCH DIAMETER	
		6" - 15"	> 15"
55+42	41' LT.	14"	
55+49	44' LT.	14"	
55+82	41' LT.	14"	
64+27	41' LT.		24"
67+04	39' LT.	8"	
67+16	41' LT.	8"	
68+08	40' LT.		24"
68+83	38' LT.		24"
70+08	45' LT.		24"
TOTAL		58"	96"

STORM SEWER SCHEDULE								
LOCATION	STRUCTURE TYPE	STORM SEWER (LIN. FT.)	STORM SEWER (LIN. FT.)	CATCH BASIN, TYPE A (EACH) 4' DIA.		MANHOLE, TYPE A (EACH) 4' DIA.	INLET, TYPE A (EACH) 2' DIA.	FLARED END SECTION (EACH)
		CLASS A, TYPE IV	WATER MAIN REQUIREMENTS	T8 GR	T12 FOL	T1 FCL	T24 FOL	12"
31' LT. STA. 66+65	CB			1				
31' LT. STA. 66+65 TO 28' LT. STA. 68+00		129						
28' LT. STA. 68+00	CB			1				
28' LT. STA. 68+00 TO 28' LT. STA. 69+50		145						
20' LT. STA. 69+50	INL						1	
20' LT. STA. 69+50 TO 28' LT. STA. 69+50		3						
28' LT. STA. 69+50 TO 29' LT. STA. 70+95		138						
36' RT. STA. 69+58	CB			1				
36' RT. STA. 70+70	MH					1		
36' RT. STA. 70+70 TO 33' RT. STA. 71+00			26					
36' RT. STA. 69+58 TO 36' RT. STA. 70+70		110						
18' RT. STA. 71+00	INL						1	
18' RT. STA. 71+00 TO 33' RT. STA. 71+00		12						
33' RT. STA. 71+00	MH					1		
33' RT. STA. 71+00 TO 24' RT. STA. 73+18			214					
19' RT. STA. 11+83	CB			1				
19' RT. STA. 11+83 TO 14' RT. STA. 11+83		5						
19' LT. STA. 11+85	CB			1				
19' LT. STA. 11+85 TO 15' LT. STA. 11+85		4						
20.5' RT. STA. 13+50	INL							
20.5' RT. STA. 13+50 TO 23' RT. STA. 13+50		41						
23' RT. STA. 13+50	MH					1		
38' RT. STA. 60+67	FES							1
TOTAL:		477	240	3	2	3	2	1

PAVING SUMMARY									
LOCATION	SUB-BASE GRANULAR MATERIAL, TYPE B 12"	AGGREGATE BASE COURSE, TYPE B 10"	HOT-MIX ASPHALT BASE COURSE, 9"	HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	BITUMINOUS MATERIALS (PRIME COAT)	LEVELING BINDER (MACHINE METHOD) N50	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH
	SQ. YD.	SQ. YD.	SQ. YD.	SQ. YD.	GAL.	TON	TON	TON	SQ. YD.
STA. 50+80 TO STA. 65+50	3,202			3,133	376	200	450	680	
STA. 65+50 TO STA. 73+00	1,916			2,127	194	100	310	286	
STA. 73+00 TO STA. 77+75					190			164	1,900
INDEPENDENCE BLVD.									
		1,515				200	131		
ENTRANCES									
	498		498			72	76		
TOTAL	5,616	1,515	498	5,260	760	300	1,032	1,337	1,900

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

McBRIDE ENGINEERING, INC.
 CIVIL ENGINEERS & SURVEYORS
 ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803

CORPORATE
 3649 W. 183rd Street Suite 124
 Hazel Crest, IL 60429-2409
 708-799-1350

ARLINGTON HEIGHTS DIVISION
 320 S. Belmont Avenue
 Arlington Heights, IL 60005-2038
 847-394-4810

MEI PROJECT: 04119.806 SCALE: NONE

VILLAGE OF CRETE
 EXCHANGE STREET IMPROVEMENTS
 CRETE, WILL COUNTY, ILLINOIS

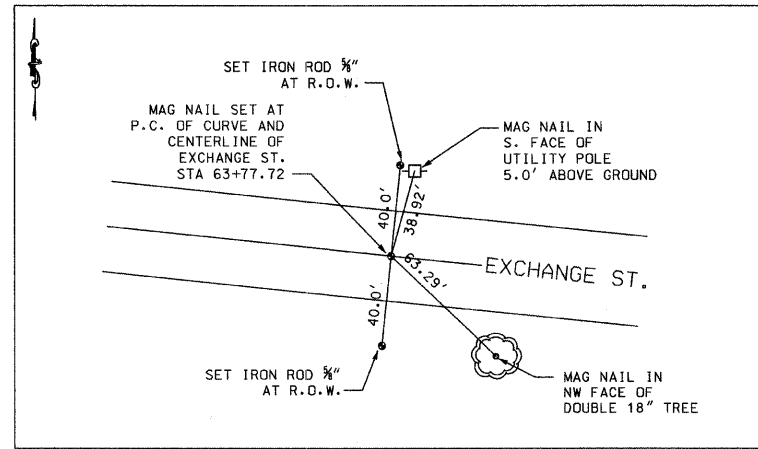
SCHEDULES

DATE: 7-3-09

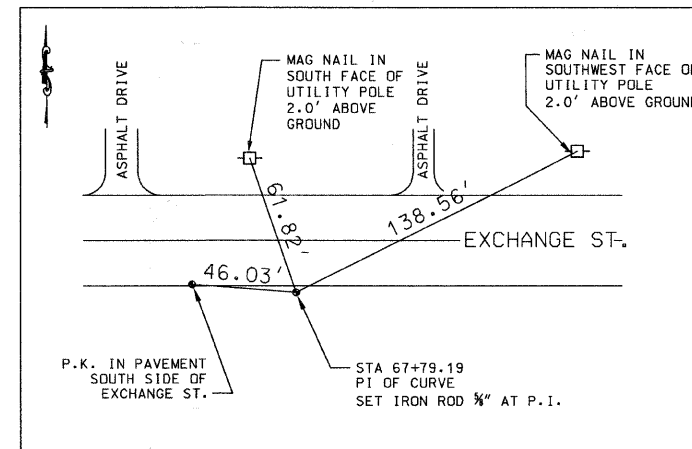
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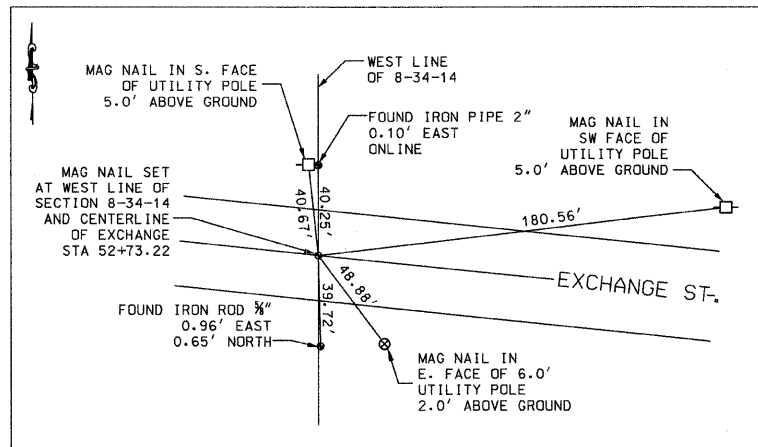
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	7
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		



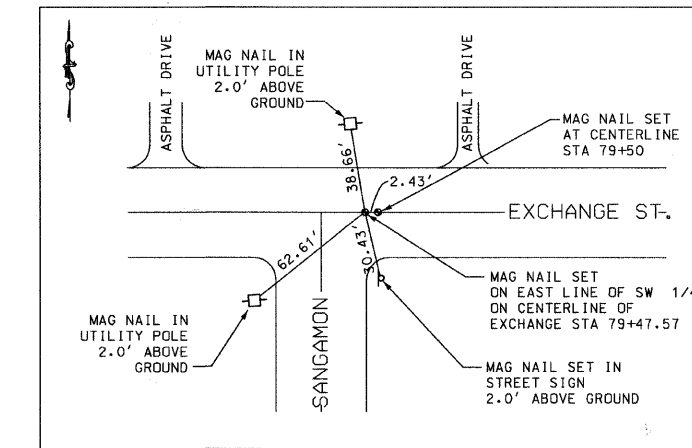
STA 63+77.72
NOT TO SCALE



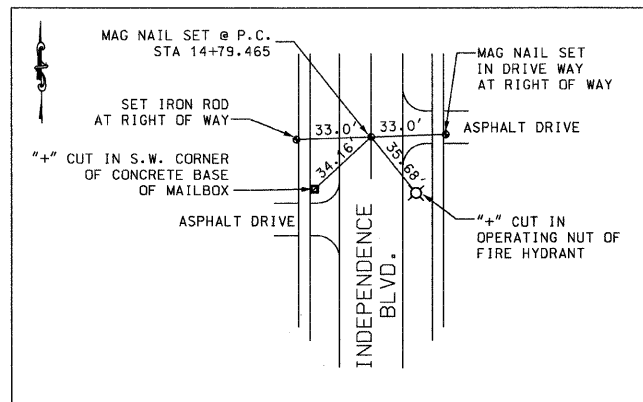
STA 67+79.19
NOT TO SCALE



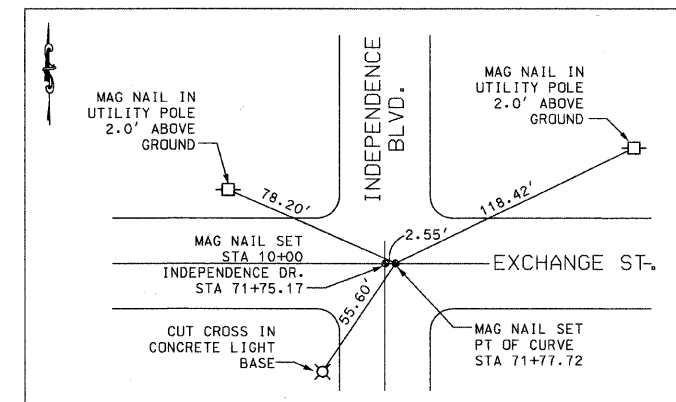
STA 52+73.22
NOT TO SCALE



STA 79+47.57
NOT TO SCALE



STA 14+79.465
NOT TO SCALE



STA 71+75.17 & STA 71+77.72
NOT TO SCALE

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

M^CBRIDE ENGINEERING, INC.
 CIVIL ENGINEERS & SURVEYORS
 ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803

CORPORATE:
 3649 W. 183rd Street Suite 124
 Hazel Crest, IL 60429-2409
 708-799-1350

ARLINGTON HEIGHTS DIVISION
 320 S. Belmont Avenue
 Arlington Heights, IL 60005-2038
 847-394-4810

MEI PROJECT: 04119.806 SCALE: NONE

VILLAGE OF CRETE
 EXCHANGE STREET IMPROVEMENTS
 CRETE, WILL COUNTY, ILLINOIS

REFERENCE TIES

DATE: 7-3-09

DRAWN BY: PG/ADM
 CHECKED BY: LGB

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	8
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		

GENERAL NOTES

1. THE WORK UNDER THIS CONTRACT SHALL CONFORM TO "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," ADOPTED ON JANUARY 1, 2007, THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," AND THE "MANUAL OF TEST PROCEDURES OF MATERIALS" IN EFFECT ON THE DATE OF INVITATION OF BIDS, AND THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS INDICATED ON THE CHECK SHEET WHICH MAY APPLY TO AND GOVERN THE CONSTRUCTION OF SECTION 09-00044-01-TL, AND IN CASE OF CONFLICT WITH ANY PART, OR PARTS, OF SAID SPECIFICATIONS, THE SAID SPECIAL PROVISIONS SHALL TAKE PRECEDENCE AND GOVERN.
2. DATUM USED FOR SURVEY IS U.S.G.S.
3. ACCESS TO ENTRANCES SHALL BE MAINTAINED BY THE USE OF TEMPORARY SURFACE AGGREGATE IN ACCORDANCE WITH ARTICLE 107.09 OF THE STANDARD SPECIFICATIONS. HOWEVER, THE COST OF FURNISHING, PLACING AND REMOVING THE TEMPORARY SURFACE AGGREGATE WILL BE PAID FOR AT THE CONTRACT PRICE PER TON FOR AGGREGATE SURFACE COURSE TYPE B AND NO OTHER COMPENSATION WILL BE ALLOWED. AN ESTIMATED QUANTITY OF 100 TONS OF AGGREGATE SURFACE COURSE, TYPE B HAS BEEN INCLUDED IN THE PLANS FOR ACCESS PURPOSES.
4. THE THICKNESS OF BITUMINOUS MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATION FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
5. EXCEPT AS NOTED IN THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
6. ALL EXCAVATION UNDER PAVEMENT, SIDEWALK AND CURB & GUTTER SHALL BE BACKFILLED AND COMPACTED WITH MATERIAL MEETING THE REQUIREMENTS OF SECTION 208. SEPARATE PAYMENT FOR TRENCH BACKFILL SHALL BE MADE ONLY WHEN SPECIFIED IN THE PLANS.
7. TEMPORARY MARKING TAPE SHALL BE USED FOR ALL TEMPORARY PAVEMENT MARKING ON FINAL SURFACE.
8. THE CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE.
9. FOR NEW CONSTRUCTION, PLACE SIDEWALK RAMPS (STD 424001) AT ALL LOCATIONS WHERE PROPOSED SIDEWALK ABUTS CURB AT STREET ENTRANCES.
10. THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION SHALL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR SHALL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO COMPENSATION WILL BE ALLOWED.
11. ABANDONED UNDERGROUND UTILITY ITEMS WHICH CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
12. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS, OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 1-800-892-0123. A MINIMUM OF FORTY-EIGHT (48) HOURS ADVANCE NOTICE IS REQUIRED.
14. POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES) SHALL BE PROVIDED FOR USE AT LOCATIONS WHERE SOILS TEND TO BE UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE DEPARTMENT'S GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSUITABLE SOILS SHOULD BE TESTED WITH A DYNAMIC OR STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 202.03 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH PGES OR EMBANKMENT AS DETERMINED BY THE GEOTECHNICAL ENGINEER. IF UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN ASSUMED IN CALCULATION PLAN QUANTITIES:		
GRANULAR MATERIALS	2.05	TONS/CU YD
BITUMINOUS MATERIALS PRIME COAT	0.10	GAL/SQ YD
AGGREGATE PRIME COAT	0.002	TONS/SQ YD
BITUMINOUS CONCRETE BINDER COURSE	112	LBS/SQ YD/INCH
BITUMINOUS CONCRETE SURFACE COURSE	112	LBS/SQ YD/INCH
NITROGEN FERTILIZER NUTRIENT	80	LBS/ACRE
PHOSPHORUS FERTILIZER NUTRIENT	160	LBS/ACRE
POTASSIUM FERTILIZER NUTRIENT	80	LBS/ACRE
TEMPORARY PAVEMENT MARKING	10	FT/100 FT OF APPLICATION

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

McBRIDE ENGINEERING, INC.
 CIVIL ENGINEERS & SURVEYORS
 ILLINOIS PROFESSIONAL DESIGN FIRM #04-000803

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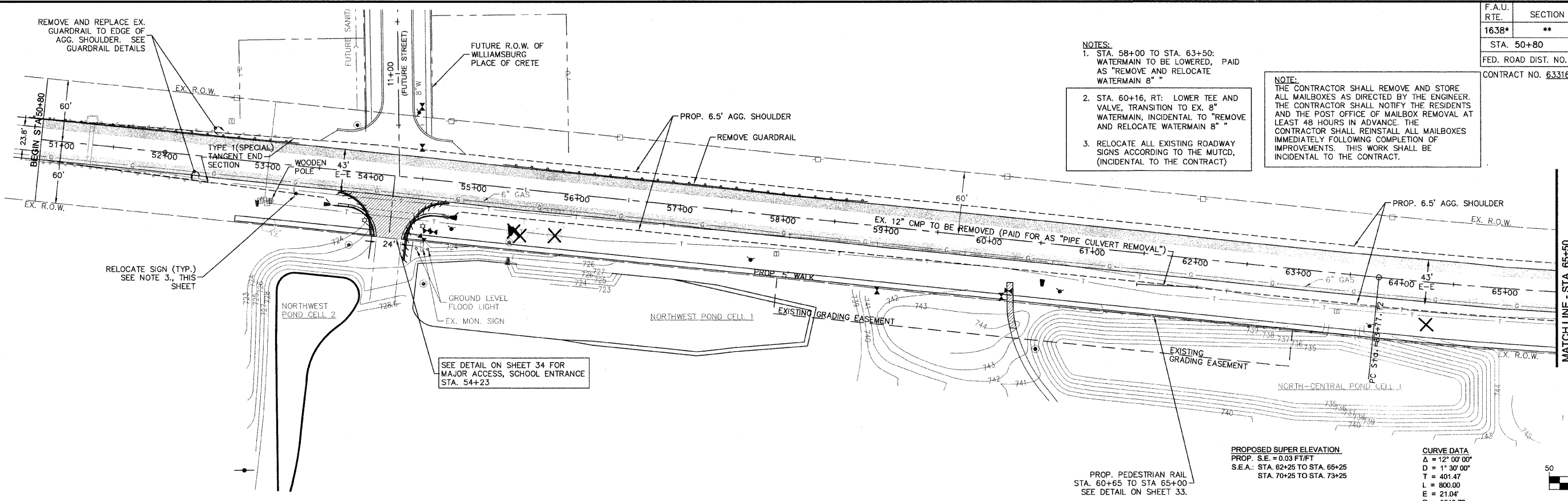
MEI PROJECT: 04119.806 SCALE: NONE

VILLAGE OF CRETE
 EXCHANGE STREET IMPROVEMENTS
 CRETE, WILL COUNTY, ILLINOIS

GENERAL NOTES

DATE: 7-3-09 DRAWN BY: PG/ADM
 CHECKED BY: LGB

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	9
STA. 50+80		TO STA. 65+50		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		



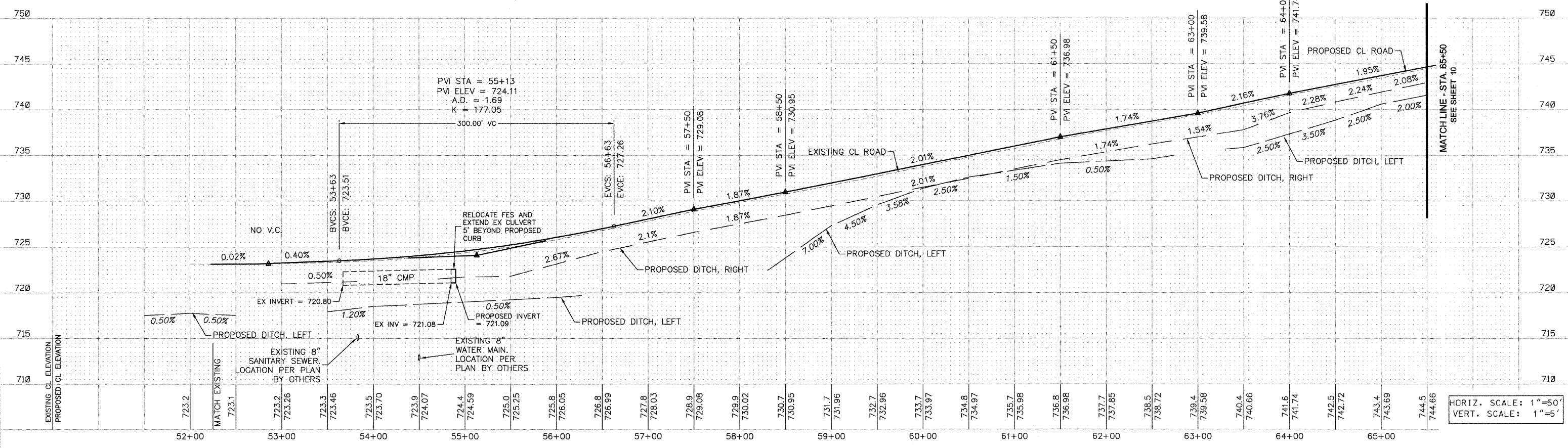
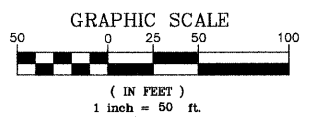
- NOTES:**
- STA. 58+00 TO STA. 63+50: WATERMAIN TO BE LOWERED, PAID AS "REMOVE AND RELOCATE WATERMAIN 8\"
 - STA. 60+16, RT: LOWER TEE AND VALVE, TRANSITION TO EX. 8\" WATERMAIN, INCIDENTAL TO "REMOVE AND RELOCATE WATERMAIN 8\"
 - RELOCATE ALL EXISTING ROADWAY SIGNS ACCORDING TO THE MUTCD, (INCIDENTAL TO THE CONTRACT)

NOTE:
THE CONTRACTOR SHALL REMOVE AND STORE ALL MAILBOXES AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE RESIDENTS AND THE POST OFFICE OF MAILBOX REMOVAL AT LEAST 48 HOURS IN ADVANCE. THE CONTRACTOR SHALL REINSTALL ALL MAILBOXES IMMEDIATELY FOLLOWING COMPLETION OF IMPROVEMENTS. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.

NOTE:
EXISTING UTILITY DATA SHOWN IS PER CURRENT ATLAS DOCUMENTATION. FIELD VERIFICATION IS REQUIRED TO DETERMINE EXTENT OF RELOCATION

PROPOSED SUPER ELEVATION
PROP. S.E. = 0.03 FT/FT
S.E.A.: STA. 62+25 TO STA. 66+25
STA. 70+25 TO STA. 73+25

CURVE DATA
Δ = 12° 00' 00"
D = 1° 30' 00"
T = 401.47
L = 800.00
E = 21.04'
R = 3819.72



REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

McBRIDE ENGINEERING, INC.
CIVIL ENGINEERS & SURVEYORS
ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803

CORPORATE: 3649 W. 183rd Street Suite 124
Hazel Crest, IL 60429-2409
708-799-1330

ARLINGTON HEIGHTS DIVISION: 320 S. Belmont Avenue
Arlington Heights, IL 60005-2038
847-394-4810

MEI PROJECT: 04119.806 SCALE: 1"=50'

VILLAGE OF CRETE
EXCHANGE STREET IMPROVEMENTS
CRETE, WILL COUNTY, ILLINOIS

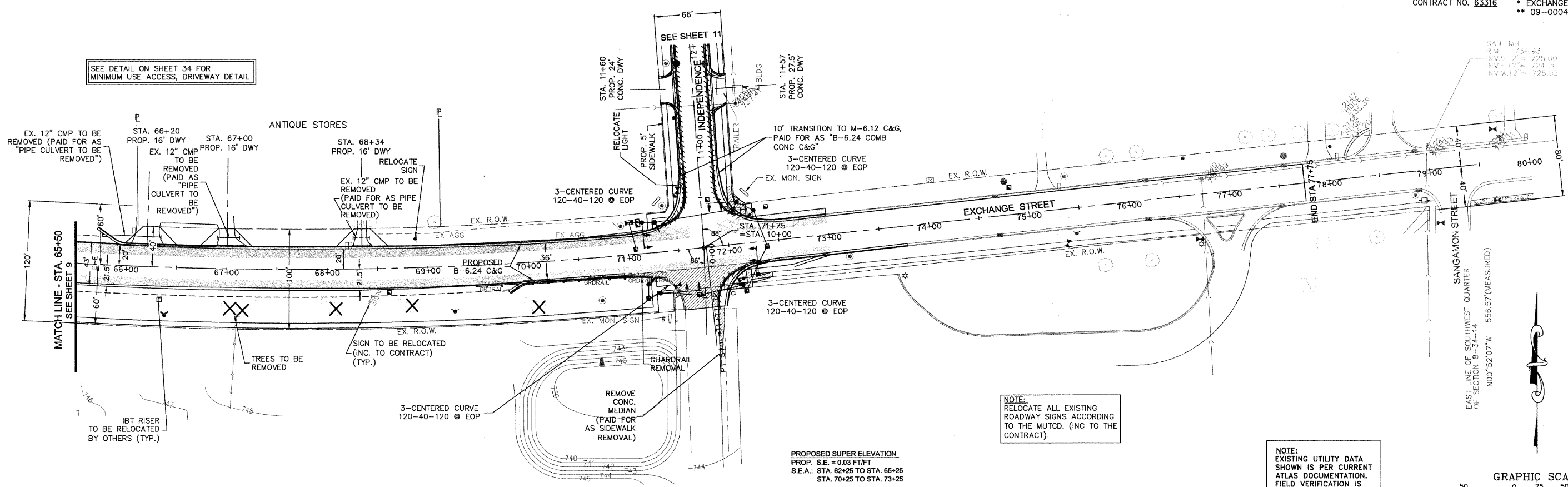
PLAN & PROFILE - EXCHANGE STREET

DATE: 7-3-09

DRAWN BY: PG/ADM
CHECKED BY: LGB

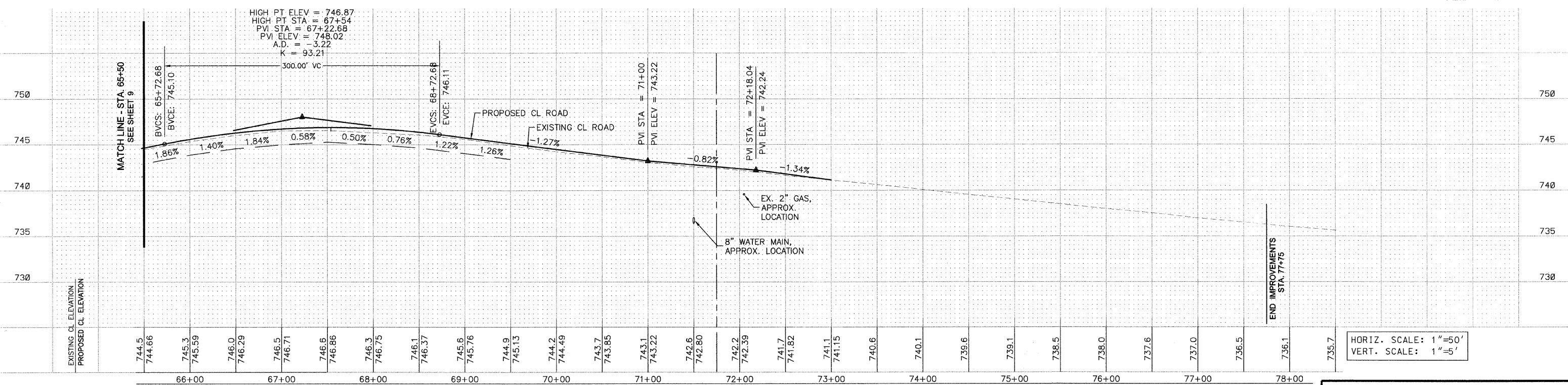
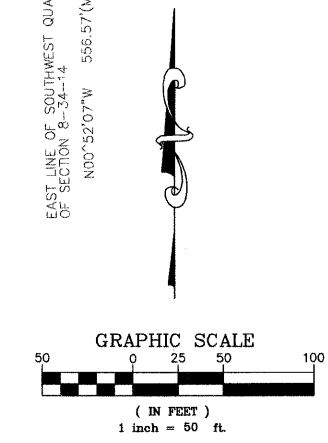
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	10
STA. 65+50		TO STA. 77+75		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		



NOTE:
RELOCATE ALL EXISTING
ROADWAY SIGNS ACCORDING
TO THE MUTCD. (INC TO THE
CONTRACT)

NOTE:
EXISTING UTILITY DATA
SHOWN IS PER CURRENT
ATLAS DOCUMENTATION.
FIELD VERIFICATION IS
REQUIRED TO DETERMINE
EXTENT OF RELOCATION



HORIZ. SCALE: 1"=50'
VERT. SCALE: 1"=5'

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

MCBRIDE ENGINEERING, INC.
 CIVIL ENGINEERS & SURVEYORS
 ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803

CORPORATE: 3649 W. 183rd Street Suite 124, Hazel Crest, IL 60429-2409, 708-799-1350
 ARLINGTON HEIGHTS DIVISION: 320 S. Belmont Avenue, Arlington Heights, IL 60005-2038, 847-394-4810

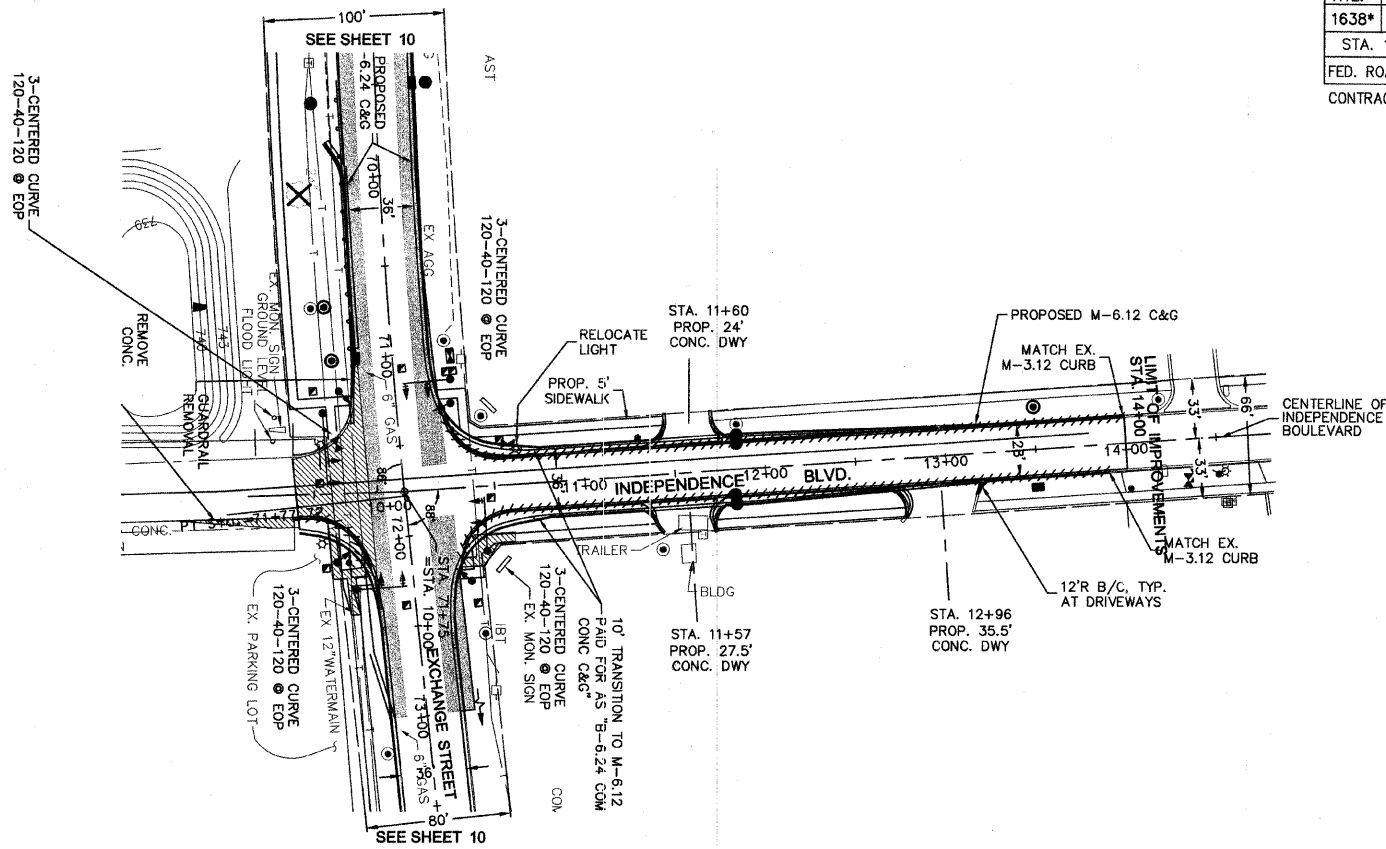
VILLAGE OF CRETE
 EXCHANGE STREET IMPROVEMENTS
 CRETE, WILL COUNTY, ILLINOIS

PLAN & PROFILE - EXCHANGE STREET

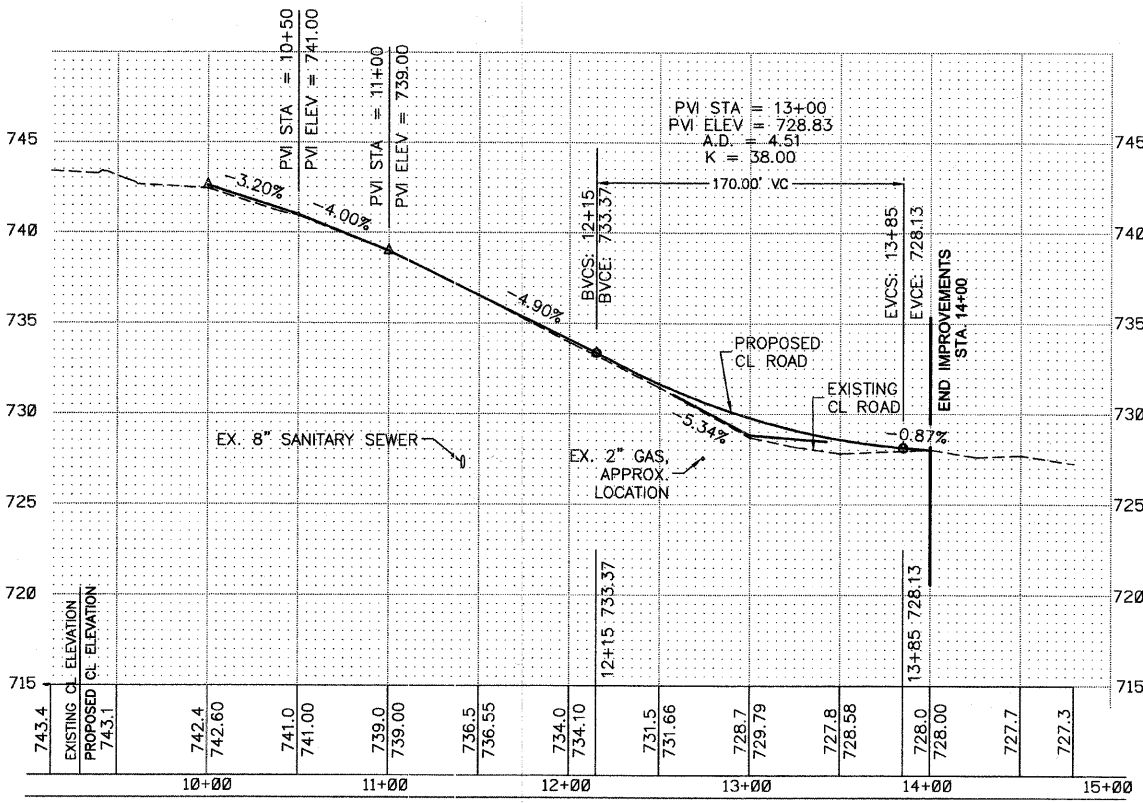
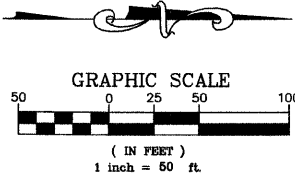
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	11
STA. 10+00		TO STA. 14+00		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		



NOTE:
EXISTING UTILITY DATA
SHOWN IS PER CURRENT
ATLAS DOCUMENTATION.
FIELD VERIFICATION IS
REQUIRED TO DETERMINE
EXTENT OF RELOCATION



HORIZ. SCALE: 1"=50'
VERT. SCALE: 1"=5'

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

MC BRIDE ENGINEERING, INC.
CIVIL ENGINEERS & SURVEYORS
ILLINOIS PROFESSIONAL DESIGN FIRM #04-000803
CORPORATE: 3469 W. 183rd Street, Suite 124, Hazel Crest, IL 60429-2409, 708-799-1350
ARLINGTON HEIGHTS DIVISION: 330 S. Belmont Avenue, Arlington Heights, IL 60005-2038, 847-394-4810

VILLAGE OF CRETE
EXCHANGE STREET IMPROVEMENTS
CRETE, WILL COUNTY, ILLINOIS
PLAN & PROFILE - INDEPENDENCE BLVD.

DRAWN BY: PG/ADM
CHECKED BY: LGB

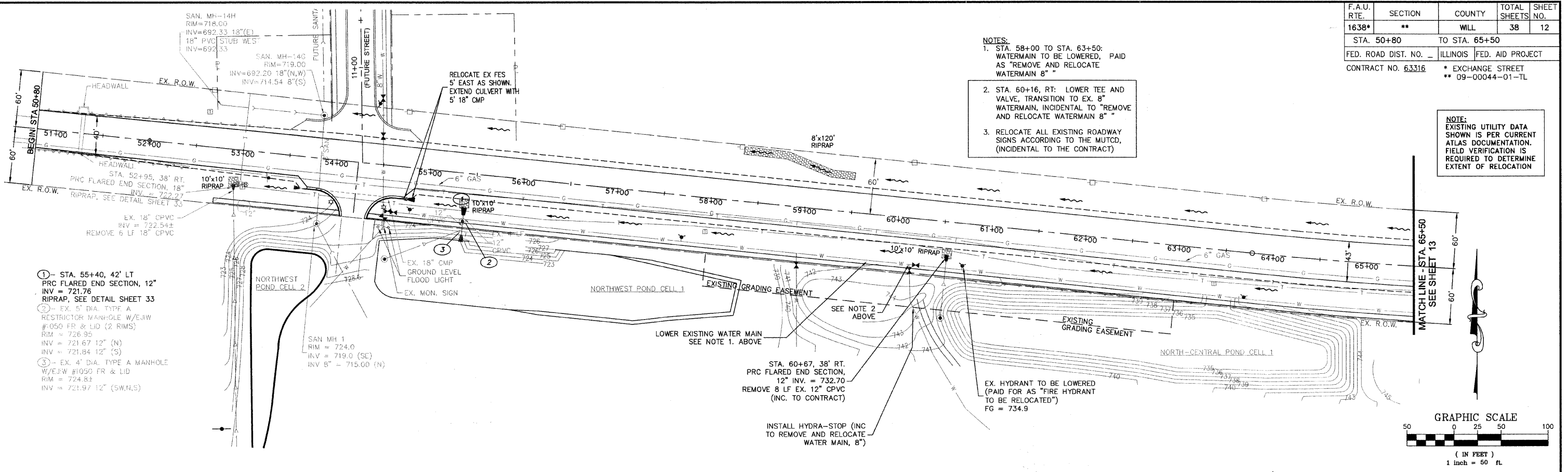
DATE: 7-3-09

MEI PROJECT: 04119.806 SCALE: 1"=50'

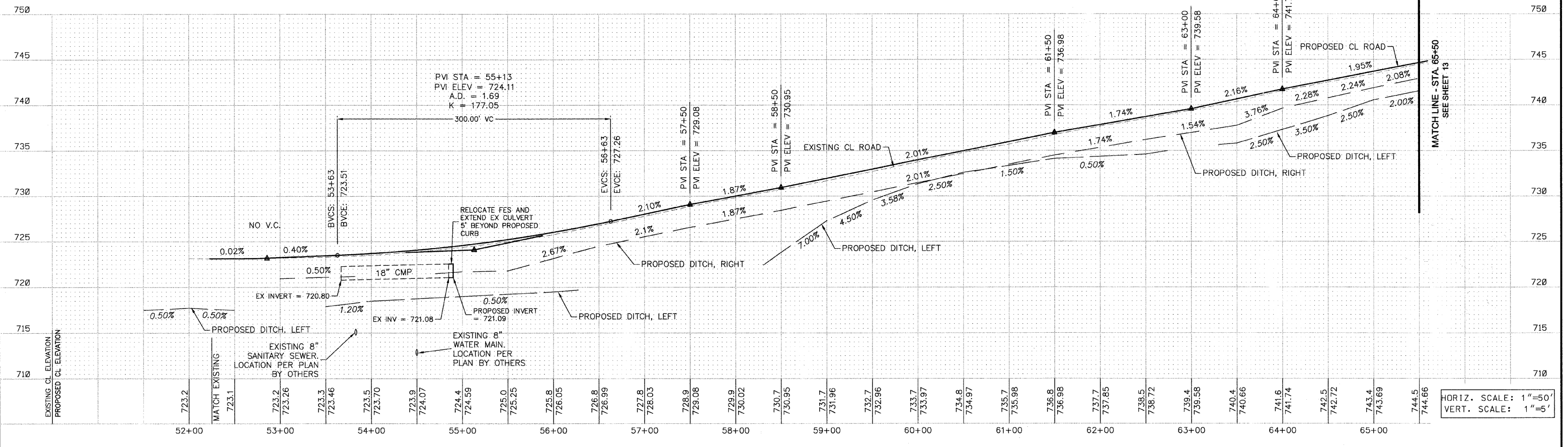
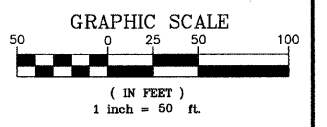
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	12
STA. 50+80		TO STA. 65+50		
FED. ROAD DIST. NO. -		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		

- NOTES:**
- STA. 58+00 TO STA. 63+50: WATERMAIN TO BE LOWERED, PAID AS "REMOVE AND RELOCATE WATERMAIN 8"
 - STA. 60+16, RT: LOWER TEE AND VALVE, TRANSITION TO EX. 8" WATERMAIN, INCIDENTAL TO "REMOVE AND RELOCATE WATERMAIN 8"
 - RELOCATE ALL EXISTING ROADWAY SIGNS ACCORDING TO THE MUTCD, (INCIDENTAL TO THE CONTRACT)

NOTE:
EXISTING UTILITY DATA SHOWN IS PER CURRENT ATLAS DOCUMENTATION. FIELD VERIFICATION IS REQUIRED TO DETERMINE EXTENT OF RELOCATION



- STA. 55+40, 42' LT. PRC FLARED END SECTION, 12" INV = 721.76 RIPRAP, SEE DETAIL SHEET 33
- EX. 5" DIA. TYPE A RESTRICTOR MANHOLE W/E&W #050 FR & LID (2 RIMS) RIM = 726.95 INV = 721.67 12" (N) INV = 721.84 12" (S)
- EX. 4" DIA. TYPE A MANHOLE W/E&W #1050 FR & LID RIM = 724.84 INV = 721.97 12" (S.W.N.S)



HORIZ. SCALE: 1"=50'
VERT. SCALE: 1"=5'

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REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

M^CBRIDE ENGINEERING, INC.
CIVIL ENGINEERS & SURVEYORS
ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803

CORPORATE: 3645 W. 183rd Street Suite 124 Hazel Crest, IL 60429-2409 708-799-1350

ARLINGTON HEIGHTS DIVISION: 320 S. Belmont Avenue Arlington Heights, IL 60005-2038 847-394-4810

MEI PROJECT: 04119.806 SCALE: 1"=50'

VILLAGE OF CRETE
EXCHANGE STREET IMPROVEMENTS
CRETE, WILL COUNTY, ILLINOIS

UTILITY PLAN - EXCHANGE STREET

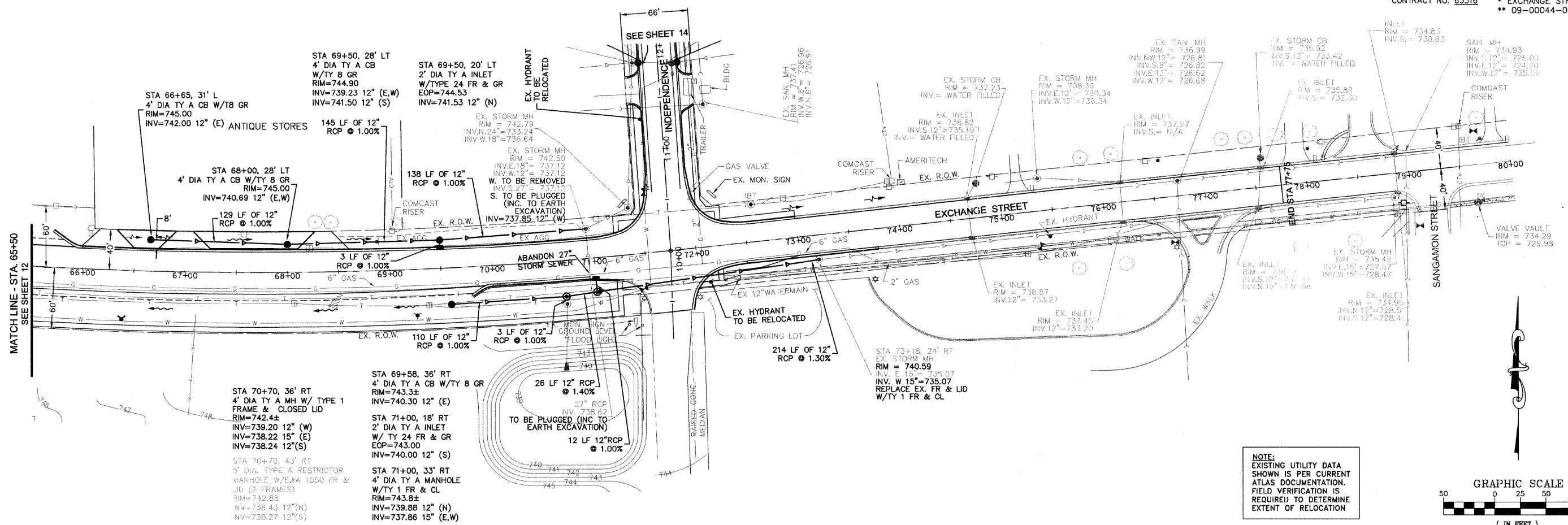
DATE: 7-3-09

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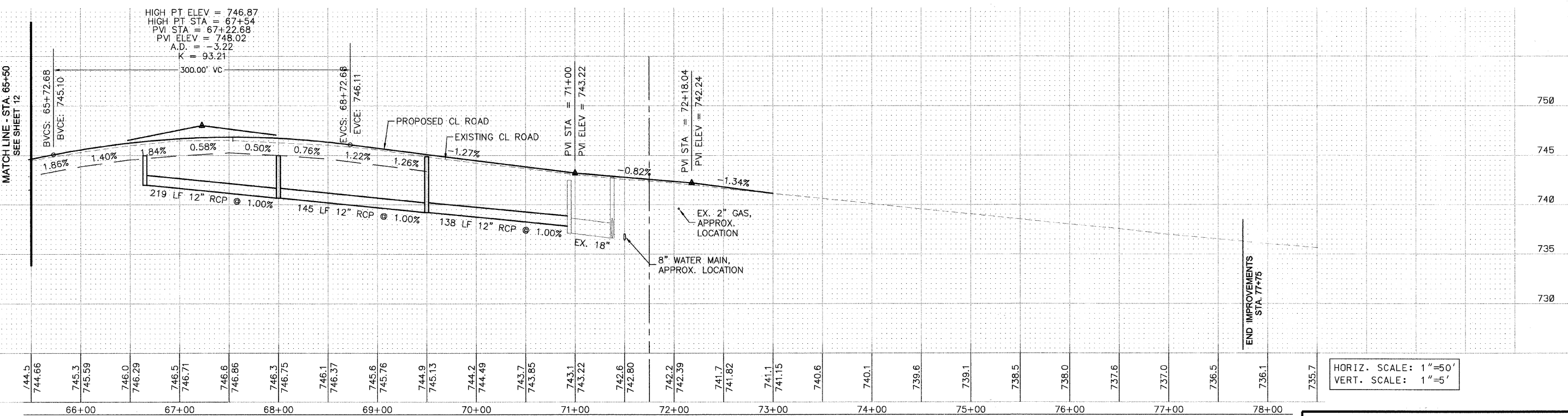
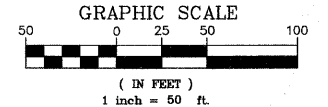
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	13

STA. 65+50 TO STA. 77+75
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

CONTRACT NO. 63316 * EXCHANGE STREET
 ** 09-00044-01-TL



NOTE:
 EXISTING UTILITY DATA SHOWN IS PER CURRENT ATLAS DOCUMENTATION. FIELD VERIFICATION IS REQUIRED TO DETERMINE EXTENT OF RELOCATION



HORIZ. SCALE: 1"=50'
 VERT. SCALE: 1"=5'

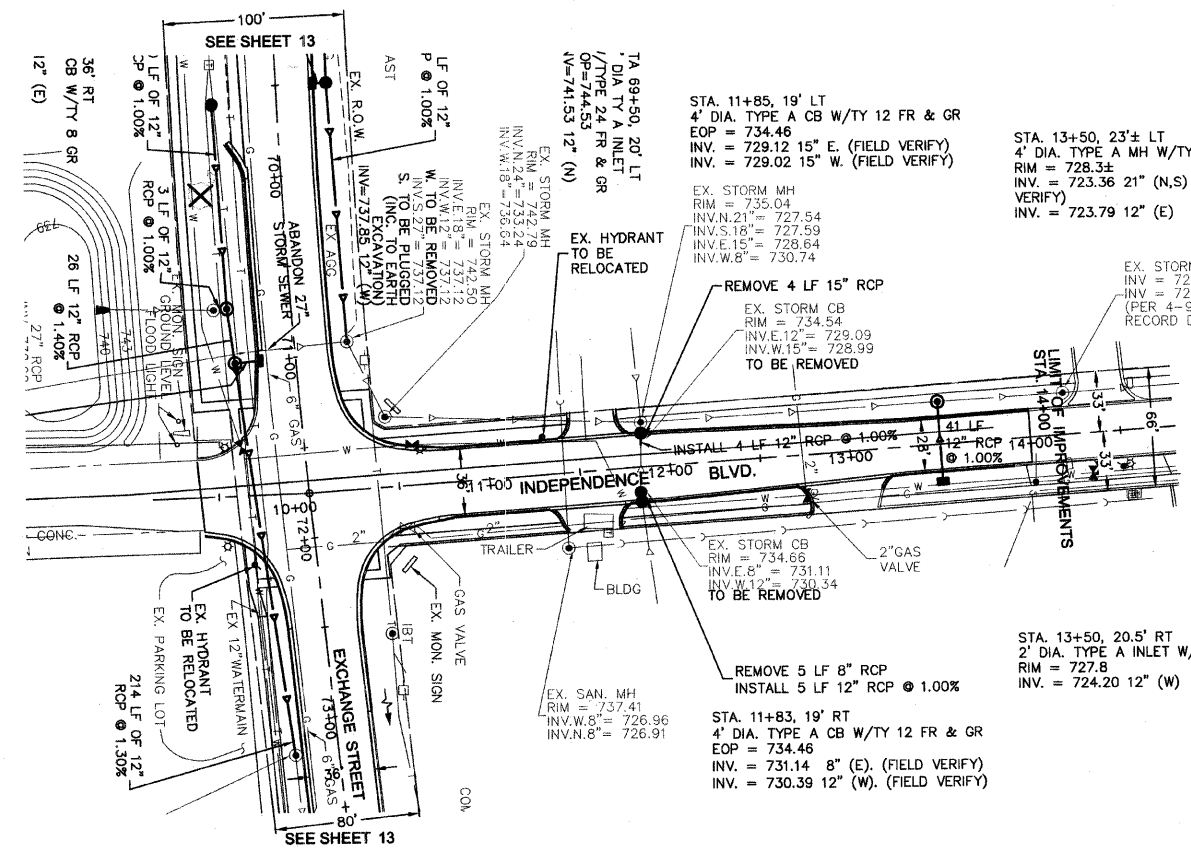
REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

McBRIDE ENGINEERING, INC.
 CIVIL ENGINEERS & SURVEYORS
 ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803
 CORPORATE: 3649 W. 183rd Street Suite 124, Hazel Crest, IL 60429-2409, 708-799-1390
 ARLINGTON HEIGHTS DIVISION: 320 S. Belmont Avenue, Arlington Heights, IL 60005-2038, 847-394-4810

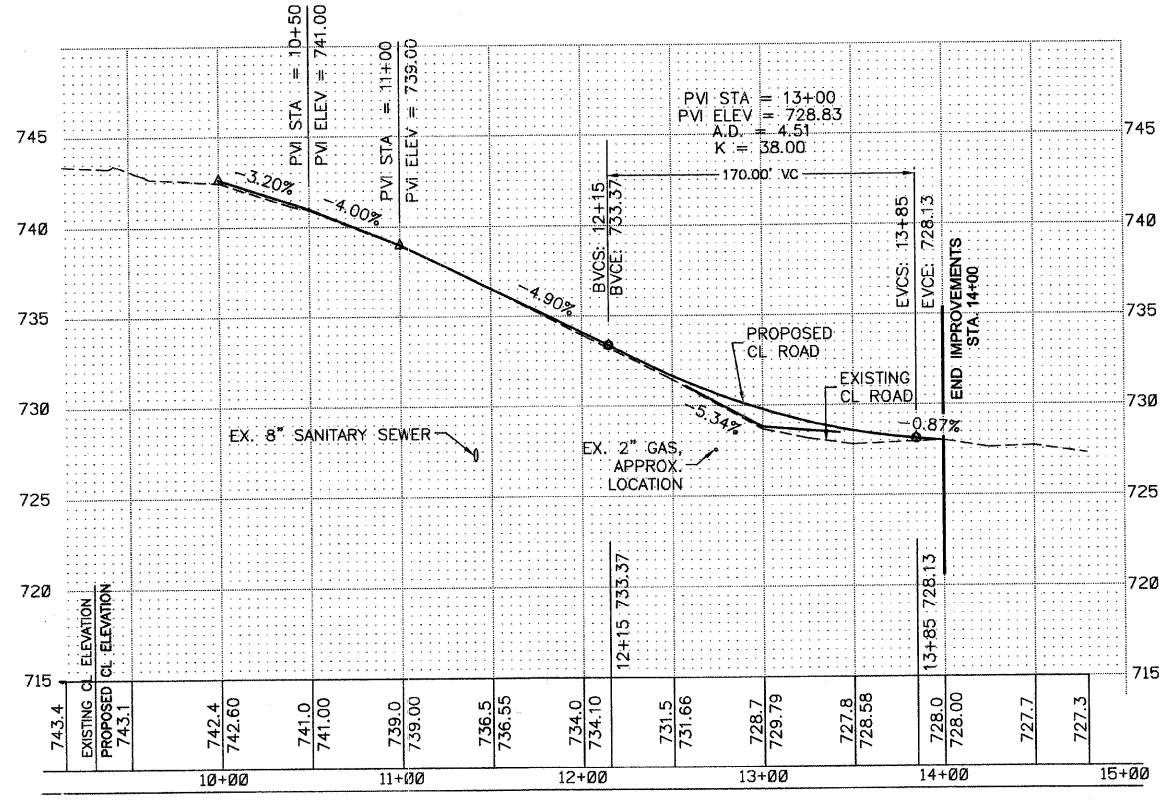
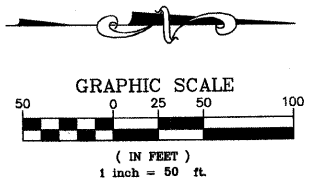
VILLAGE OF CRETE
 EXCHANGE STREET IMPROVEMENTS
 CRETE, WILL COUNTY, ILLINOIS
 UTILITY PLAN - EXCHANGE STREET
 MEI PROJECT: 04119.806 SCALE: 1"=50' DATE: 7-3-09
 DRAWN BY: PG/ADM
 CHECKED BY: LGB

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	14
STA. 10+00		TO STA. 14+00		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		



NOTE:
EXISTING UTILITY DATA SHOWN IS PER CURRENT ATLAS DOCUMENTATION. FIELD VERIFICATION IS REQUIRED TO DETERMINE EXTENT OF RELOCATION



HORIZ. SCALE: 1"=50'
VERT. SCALE: 1"=5'

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

MC BRIDE ENGINEERING, INC.
CIVIL ENGINEERS & SURVEYORS
ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803

CORPORATE: 3649 W. 183rd Street Suite 124, Hazel Crest, IL 60429-2409, 815-799-1350
ARLINGTON HEIGHTS DIVISION: 320 S. Belmont Avenue, Arlington Heights, IL 60005-2038, 847-394-4810

MEI PROJECT: 04119.806 SCALE: 1"=50'

VILLAGE OF CRETE
EXCHANGE STREET IMPROVEMENTS
CRETE, WILL COUNTY, ILLINOIS

UTILITY PLAN - INDEPENDENCE BLVD.

DATE: 7-3-09
DRAWN BY: PG/ADM
CHECKED BY: LGB

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	15
STA.		TO STA.		
FED. ROAD DIST. NO. -		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		

LIMIT OF IMPROVEMENTS
STA. 14+00

NOTE: WITHIN INDEPENDENCE BLVD. R.O.W. ALL DISTURBED GROUND SHALL BE SEEDED WITH CLASS 1 LAWN MIXTURE, ON 4" THICK TOPSOIL BED, FERTILIZER, AND EROSION CONTROL BLANKET, TO THE SATISFACTION OF THE VILLAGE OF CRETE.

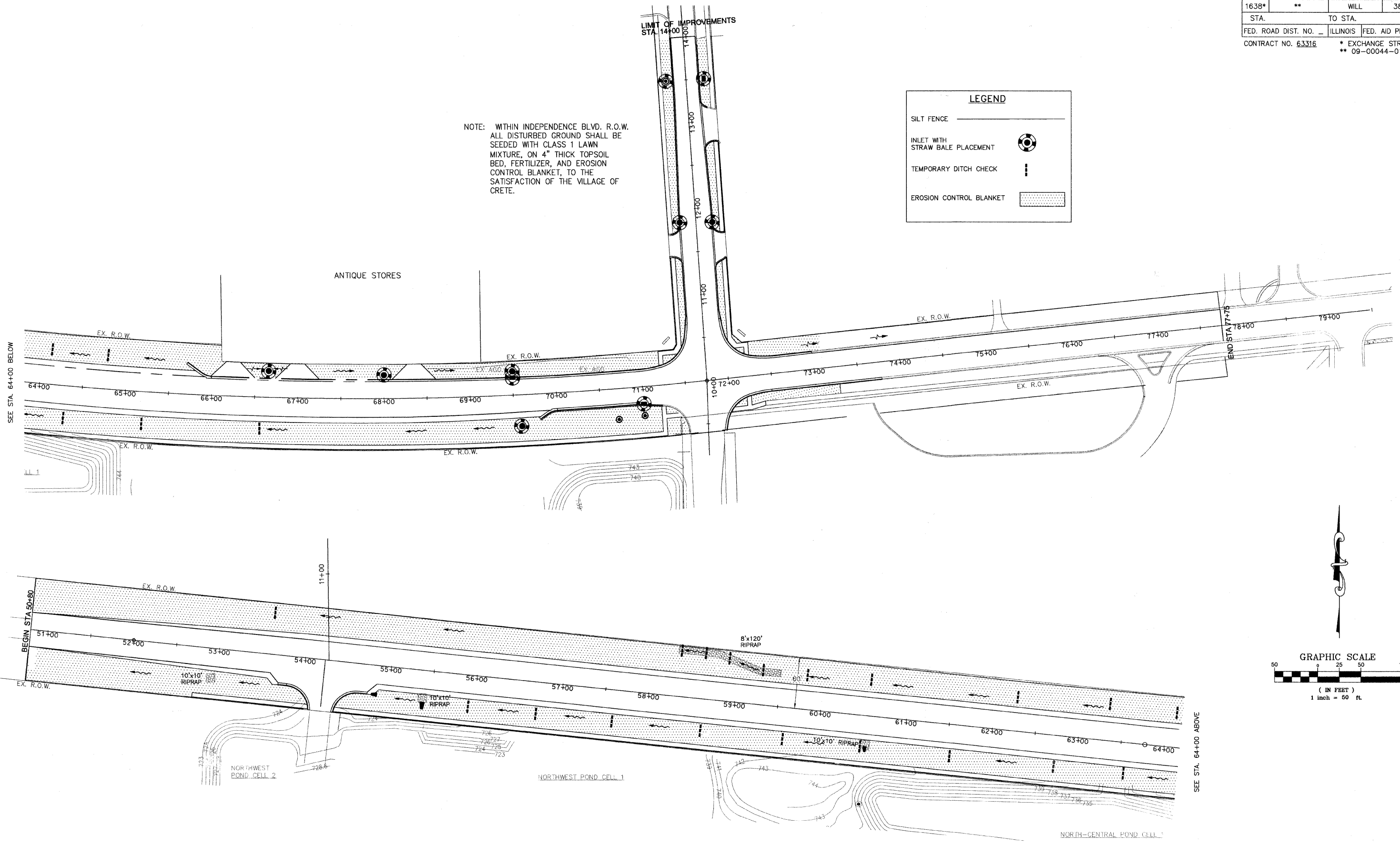
LEGEND

SILT FENCE _____

INLET WITH STRAW BALE PLACEMENT

TEMPORARY DITCH CHECK

EROSION CONTROL BLANKET



SEE STA. 64+00 BELOW

SEE STA. 64+00 ABOVE

GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

MC BRIDE ENGINEERING, INC.
 CIVIL ENGINEERS & SURVEYORS
 ILLINOIS PROFESSIONAL DESIGN FIRM #164-000803
 CORPORATE: 3649 W. 183rd Street Suite 124, Hazel Crest, IL 60429-2409, 708-799-1350
 ARLINGTON HEIGHTS DIVISION: 320 S. Belmont Avenue, Arlington Heights, IL 60005-2038, 847-394-4810

VILLAGE OF CRETE
 EXCHANGE STREET IMPROVEMENTS
 CRETE, WILL COUNTY, ILLINOIS

SOIL EROSION AND SEDIMENT CONTROL PLAN

DATE: 7-3-09

DRAWN BY: PG/ADM
 CHECKED BY: LGB

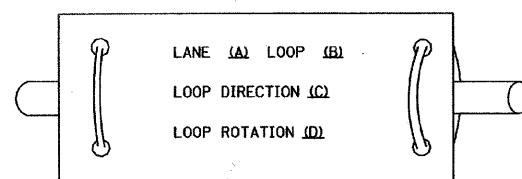
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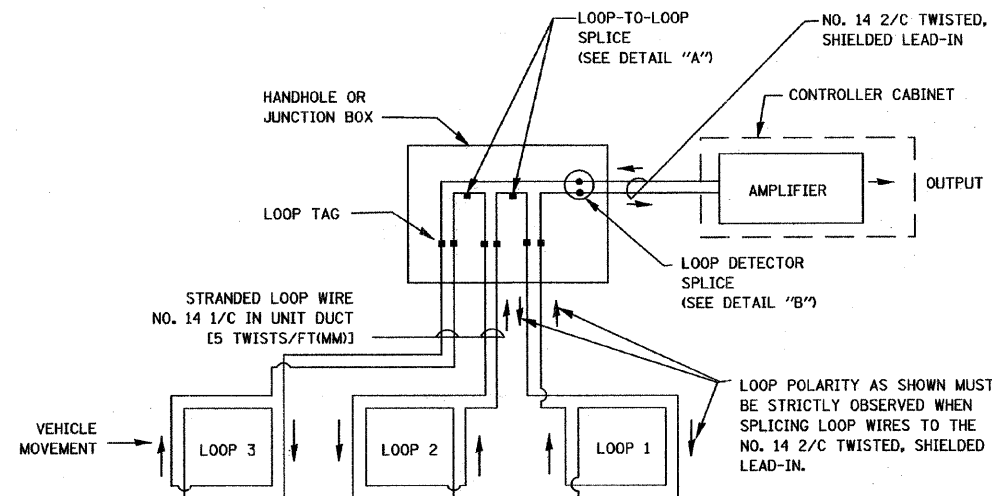
LOOP DETECTOR NOTES

- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVESHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- PERFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PERFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

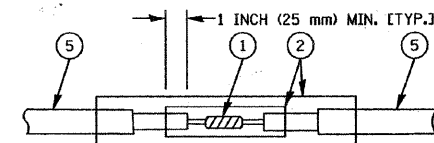


- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

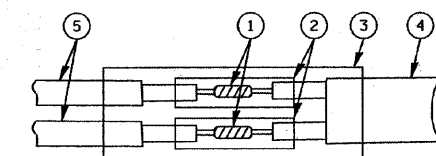


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

ROBERT E. HAMILTON
CONSULTING ENGINEERS P.C.
3230 EXECUTIVE DRIVE
JOLIET, ILLINOIS 60431
PHONE: 815-730-3444
FAX: 815-730-6703

REH PROJECT: 06902 SCALE: NTS

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

M^CBRIDE ENGINEERING, INC.
CIVIL ENGINEERS & SURVEYORS
ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803
CORPORATE: 3249 W. 183rd Street Suite 124
Harold Crest, IL 60429-2409
708-799-1350
ARLINGTON HEIGHTS DIVISION: 320 S. Belmont Avenue
Arlington Heights, IL 60005-2038
847-394-4810

MEI PROJECT: 04119.806 SCALE: NONE

VILLAGE OF CRETE
EXCHANGE STREET IMPROVEMENTS
CRETE, WILL COUNTY, ILLINOIS
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

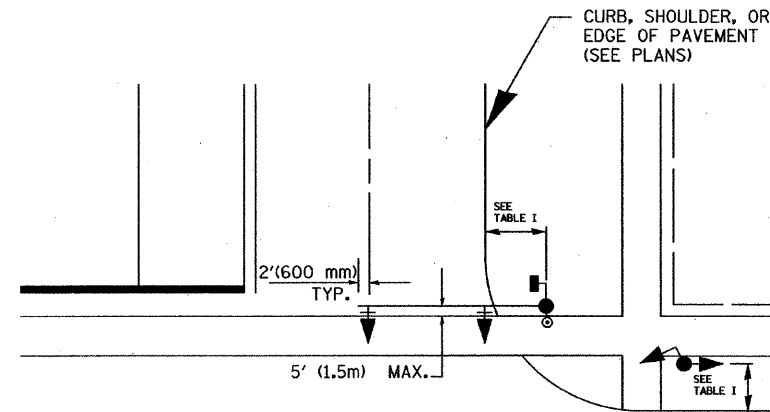
DATE: 7-3-09

DRAWN BY: PG/ADM
CHECKED BY: LCB

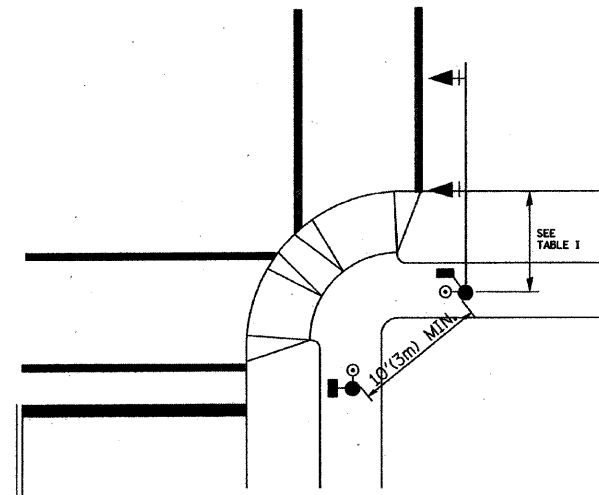
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	17
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-0044-01-TL		

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

NOTES:

1. AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION, EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.

AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.

PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:

- A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
- B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
- C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
- E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK

2. PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.

3. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.

4. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

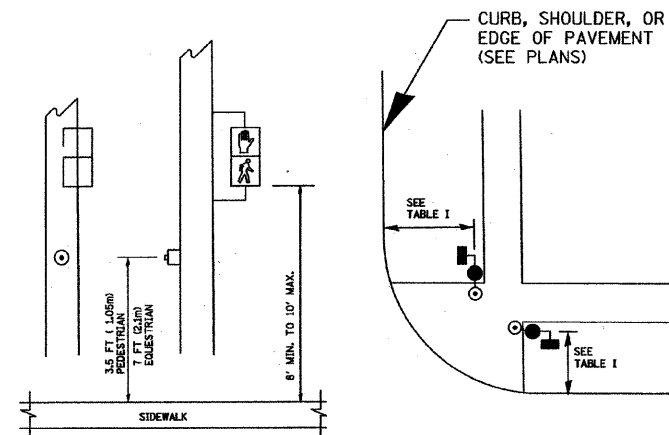


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

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3230 EXECUTIVE DRIVE
JOLIET, ILLINOIS 60431
PHONE: 815-730-3444
FAX: 815-730-6703

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

M^CBRIDE ENGINEERING, INC.
CIVIL ENGINEERS & SURVEYORS
ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803
CORPORATE: 3649 W. 183rd Street Suite 124
Hazel Crest, IL 60429-2409
708-799-1350
ARLINGTON HEIGHTS DIVISION: 320 S. Belmont Avenue
Arlington Heights, IL 60005-2038
847-394-4810

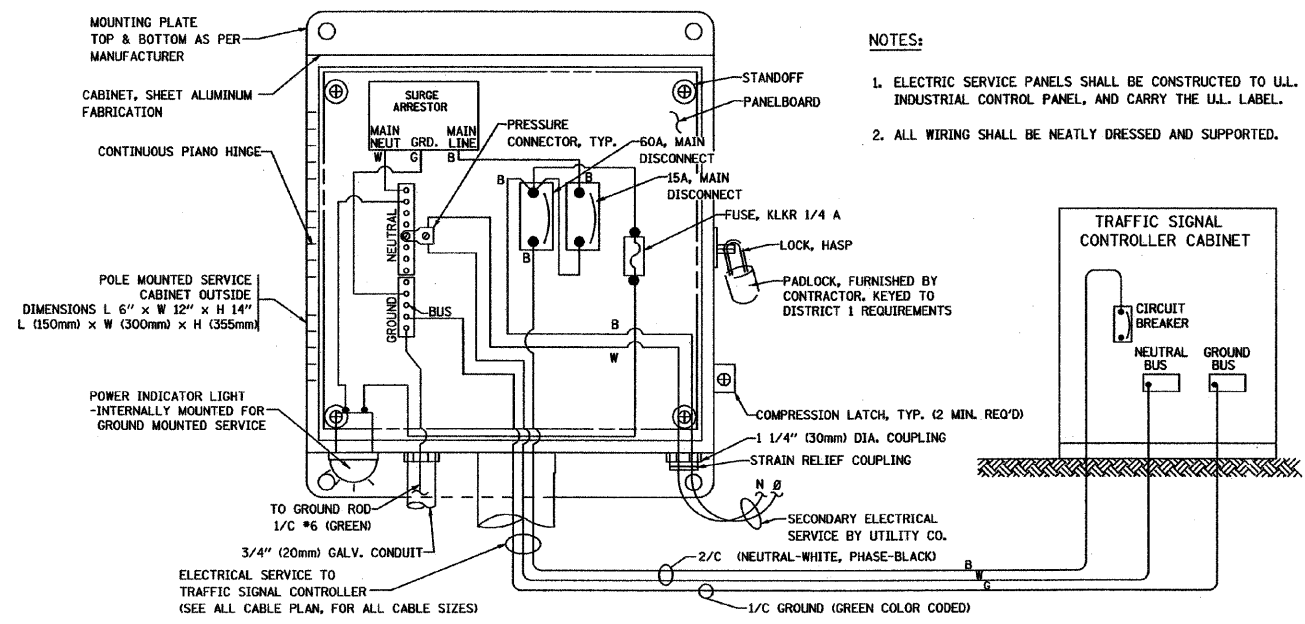
VILLAGE OF CRETE
EXCHANGE STREET IMPROVEMENTS
CRETE, WILL COUNTY, ILLINOIS
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

REH PROJECT: 06902 SCALE: NTS

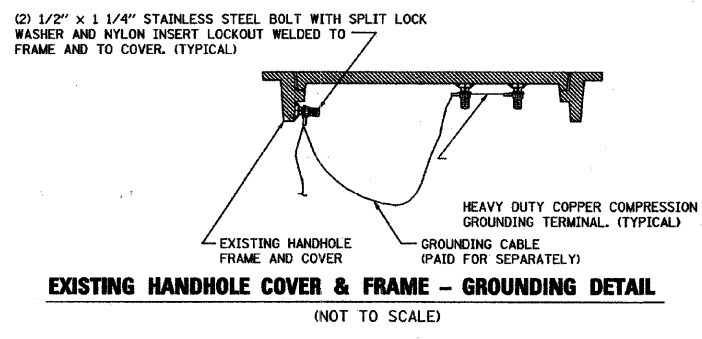
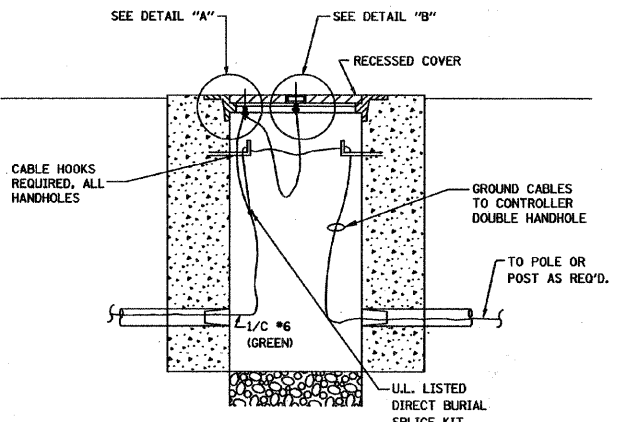
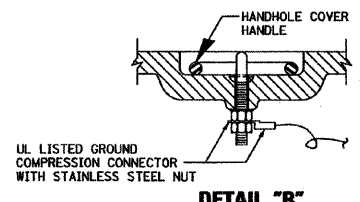
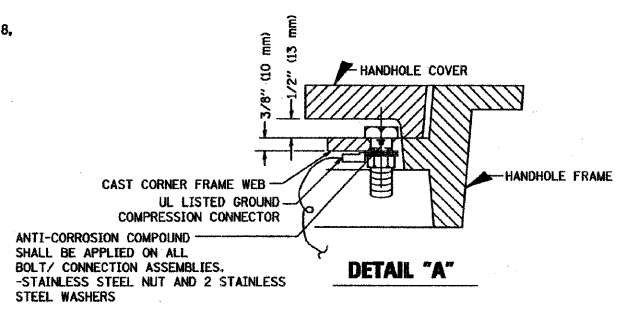
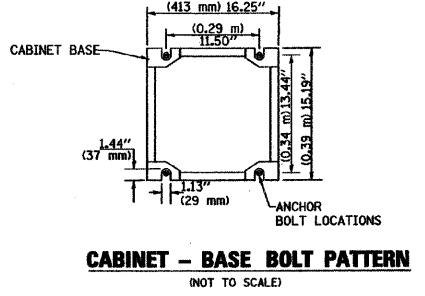
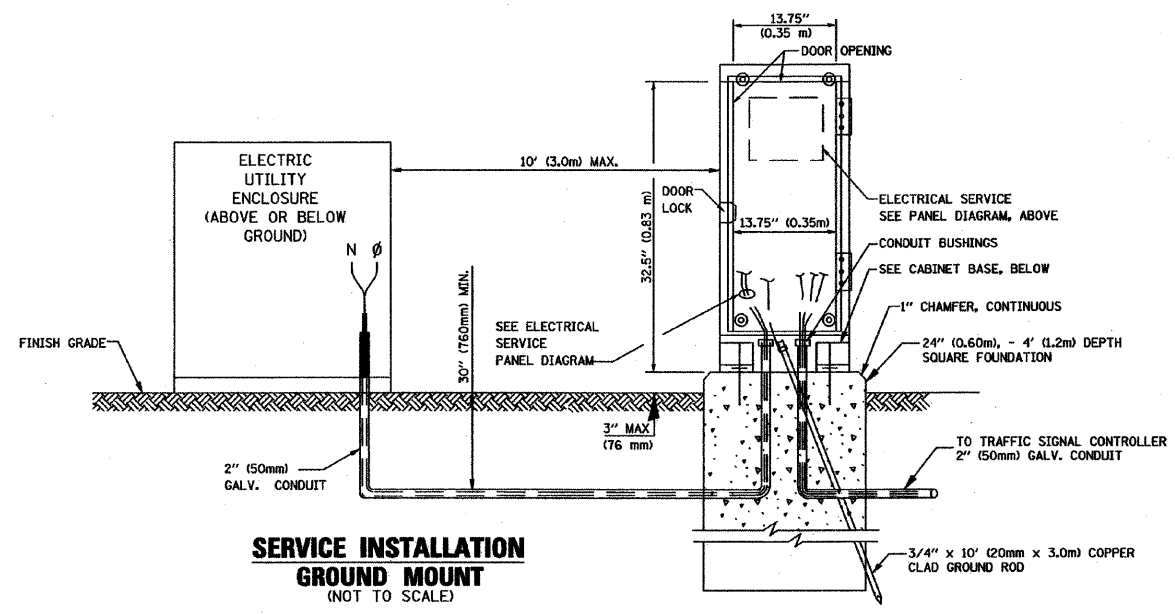
MEI PROJECT: 04119.806 SCALE: NONE

DATE: 7-3-09

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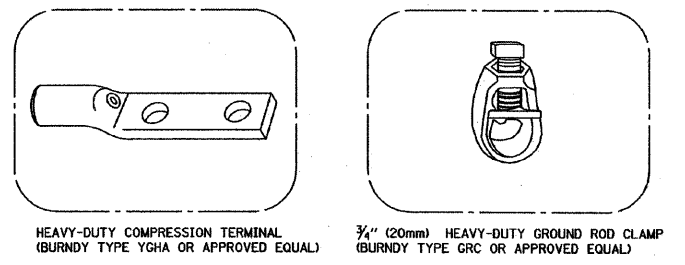
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



NOTES:

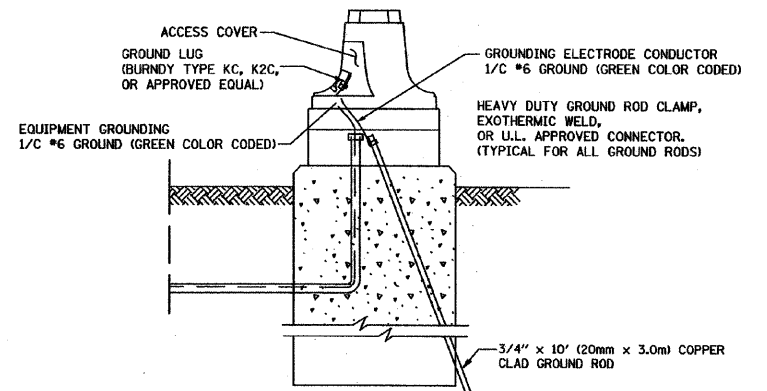
GROUNDING SYSTEM

- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPEO OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



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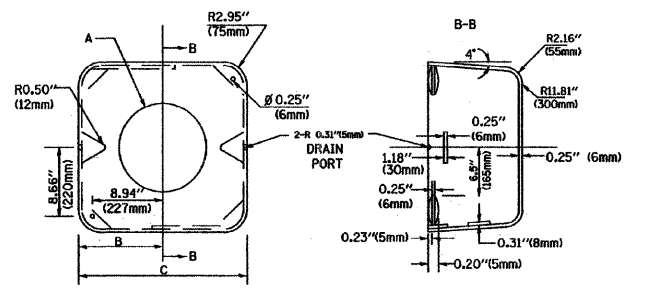
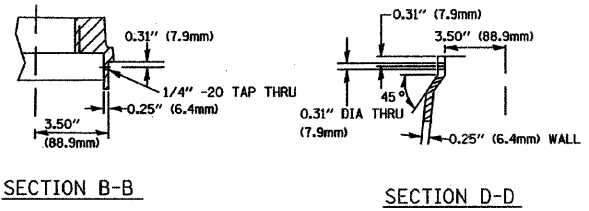
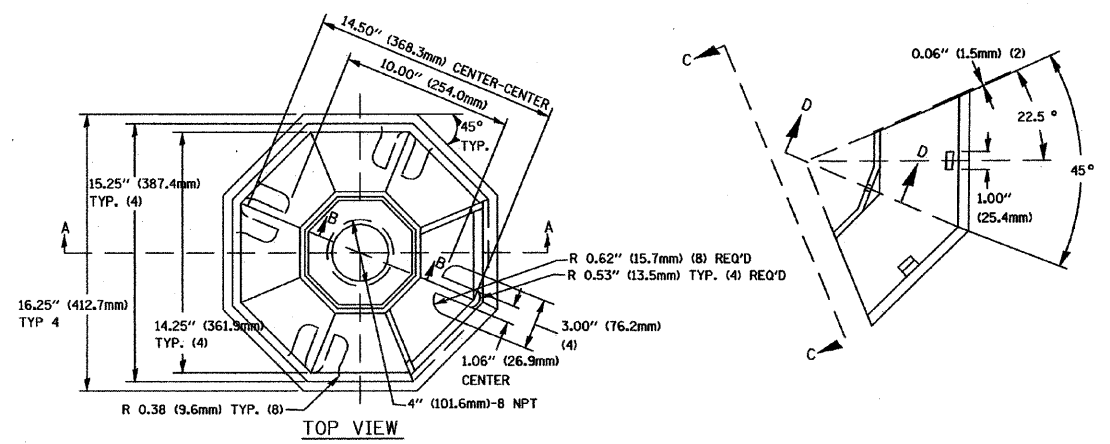
REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

M^CBRIDE ENGINEERING, INC.
 CIVIL ENGINEERS & SURVEYORS
 ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803
 CORPORATION
 3449 W. 183rd Street Suite 124
 Hazel Crest, IL 60429-2409
 708-799-1350
 ARLINGTON HEIGHTS DIVISION
 320 S. Belmont Avenue
 Arlington Heights, IL 60005-2038
 847-394-4810

VILLAGE OF CRETE
 EXCHANGE STREET IMPROVEMENTS
 CRETE, WILL COUNTY, ILLINOIS
STANDARD TRAFFIC SIGNAL DESIGN DETAILS
 DATE: 7-3-09
 DRAWN BY: PG/ADM
 CHECKED BY: LGB

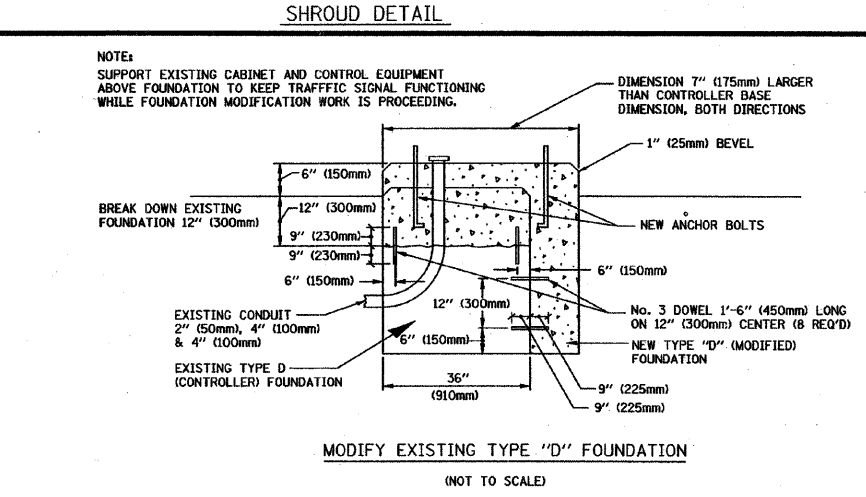
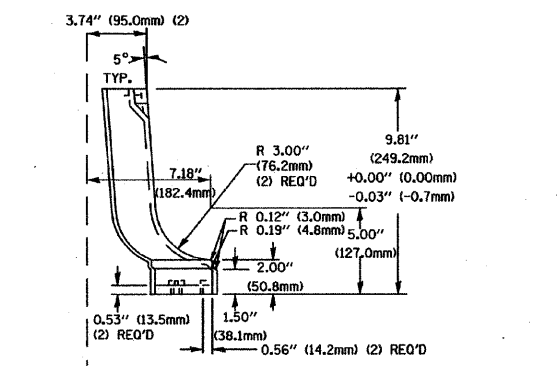
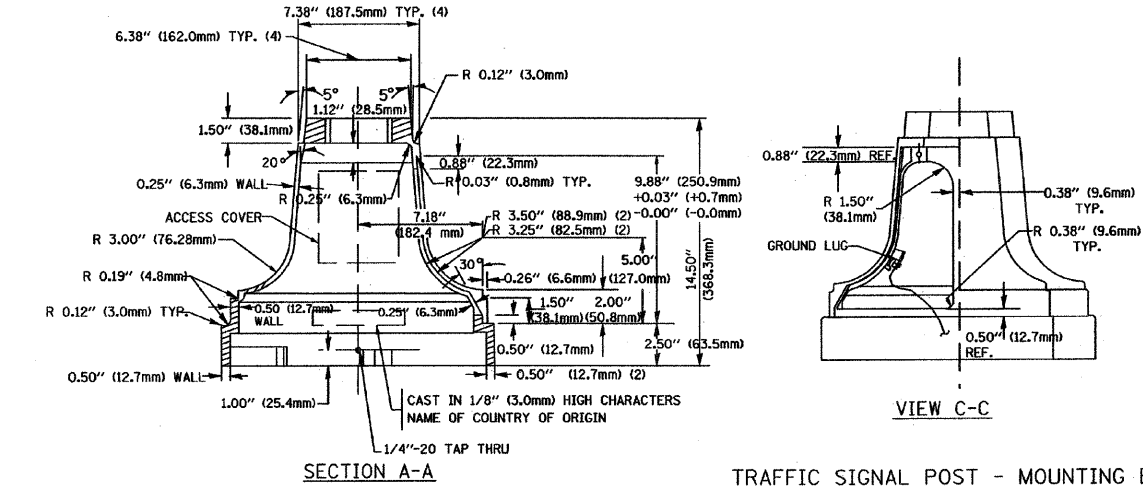
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F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	19
STA.		TO STA.		
FED. ROAD DIST. NO. -		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		



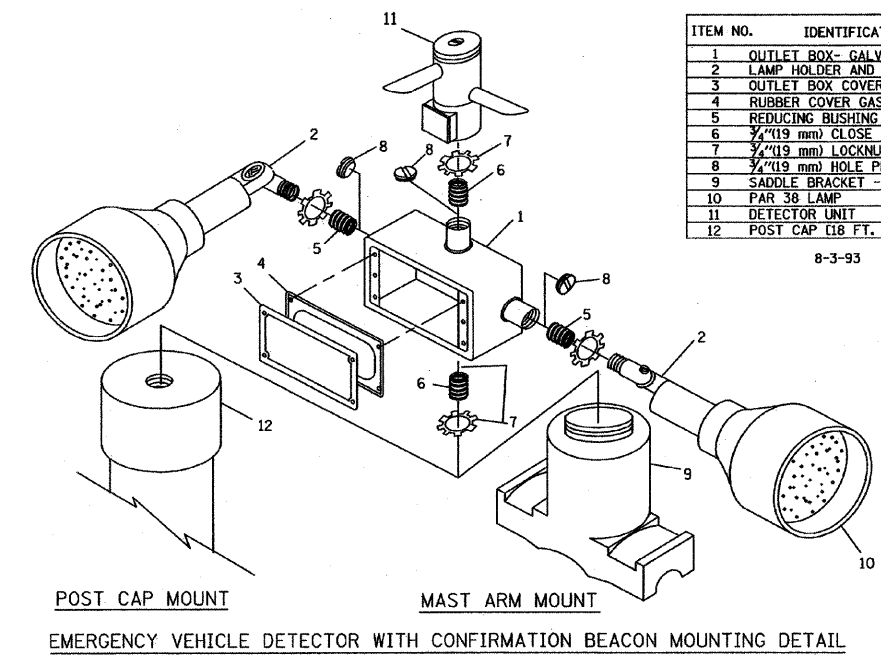
TYPE	A	B	C	HEIGHT	WEIGHT
I	10.125\"	9.5\"	19\"	12\"	24kg
II	11.125\"	10.75\"	21.5\"	12\"	26kg

MATERIALS:
 - ASTM A48 CLASS 30 GREY IRON
 - ASTM A123 HOT DIPPED GALVANIZED



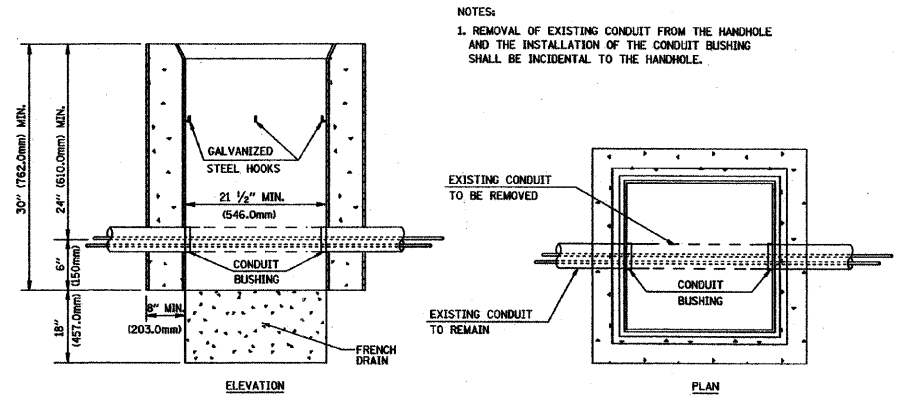
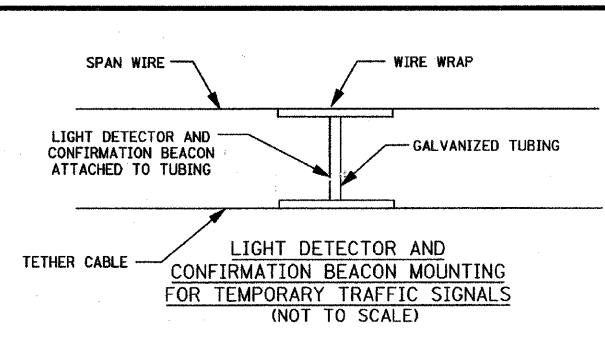
NOTE:
 SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.

TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



ITEM NO.	IDENTIFICATION
1	OUTLET BOX - GALV. 21 CU. IN. (0.000344 CU. M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4\"
7	3/4\"
8	3/4\"
9	SADDLE BRACKET - GALV.
10	PAR 38 LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:
 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
 2. ITEM #1- 0Z/GEDNEY FSX-1-50 OR EQUIVALENT
 ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
 ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
 3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4\"



NOTES:
 1. REMOVAL OF EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHING SHALL BE INCIDENTAL TO THE HANDHOLE.

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NO.	REVISIONS	DATE
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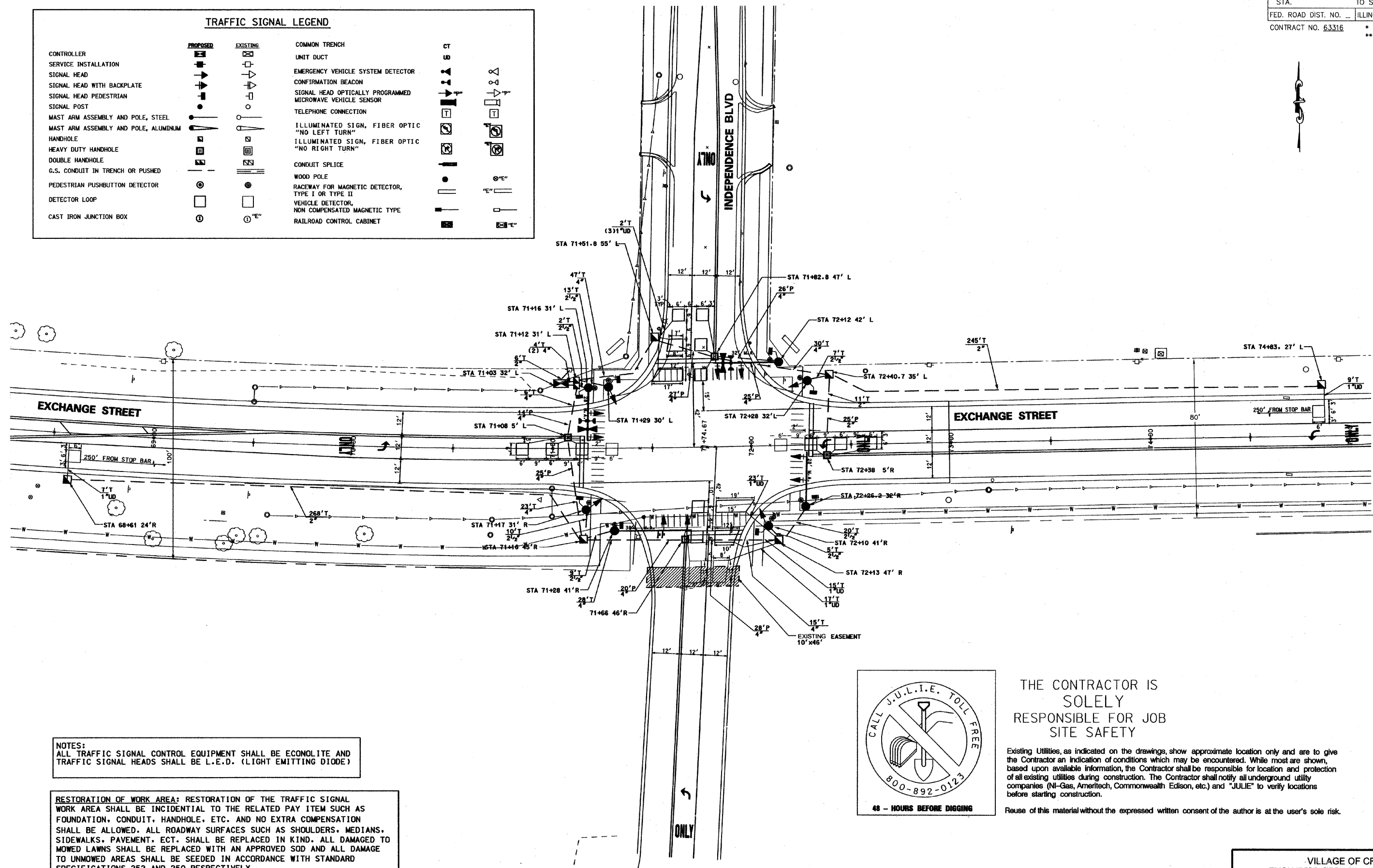
MEC BRIDE ENGINEERING, INC.
 CIVIL ENGINEERS & SURVEYORS
 ILLINOIS PROFESSIONAL DESIGN FIRM #194-000803
 CORPORATE: 3645 W. 183rd Street Suite 124
 Hazel Crest, IL 60429-2409
 708-799-1350
 ARLINGTON HEIGHTS DIVISION: 320 S. Belmont Avenue
 Arlington Heights, IL 60005-2038
 847-394-4810

VILLAGE OF CRETE
 EXCHANGE STREET IMPROVEMENTS
 CRETE, WILL COUNTY, ILLINOIS
 STANDARD TRAFFIC SIGNAL
 DESIGN DETAILS
 DATE: 7-3-09
 DRAWN BY: PG/ADM
 CHECKED BY: LGB

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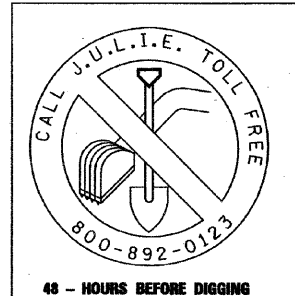
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		

TRAFFIC SIGNAL LEGEND			
	PROPOSED	EXISTING	COMMON TRENCH
CONTROLLER			UNIT DUCT
SERVICE INSTALLATION			EMERGENCY VEHICLE SYSTEM DETECTOR
SIGNAL HEAD			CONFIRMATION BEACON
SIGNAL HEAD WITH BACKPLATE			SIGNAL HEAD OPTICALLY PROGRAMMED
SIGNAL HEAD PEDESTRIAN			MICROWAVE VEHICLE SENSOR
SIGNAL POST			TELEPHONE CONNECTION
MAST ARM ASSEMBLY AND POLE, STEEL			ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
MAST ARM ASSEMBLY AND POLE, ALUMINUM			ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
HANDHOLE			CONDUIT SPLICE
HEAVY DUTY HANDHOLE			WOOD POLE
DOUBLE HANDHOLE			RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II
G.S. CONDUIT IN TRENCH OR PUSHED			VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE
PEDESTRIAN PUSHBUTTON DETECTOR			RAILROAD CONTROL CABINET
DETECTOR LOOP			
CAST IRON JUNCTION BOX			



NOTES:
ALL TRAFFIC SIGNAL CONTROL EQUIPMENT SHALL BE ECONOLITE AND TRAFFIC SIGNAL HEADS SHALL BE L.E.D. (LIGHT EMITTING DIODE)

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC. AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ECT. SHALL BE REPLACED IN KIND. ALL DAMAGED TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED AREAS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY

Existing Utilities, as indicated on the drawings, show approximate location only and are to give the Contractor an indication of conditions which may be encountered. While most are shown, based upon available information, the Contractor shall be responsible for location and protection of all existing utilities during construction. The Contractor shall notify all underground utility companies (NI-Gas, Ameritech, Commonwealth Edison, etc.) and "JULIE" to verify locations before starting construction.

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3230 EXECUTIVE DRIVE
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McBRIDE ENGINEERING, INC.
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Hazel Crest, IL 60429-2409
708-799-1350
ARLINGTON HEIGHTS DIVISION: 320 S. Belmont Avenue
Arlington Heights, IL 60005-2038
847-394-4810

VILLAGE OF CRETE
EXCHANGE STREET IMPROVEMENTS
CRETE, WILL COUNTY, ILLINOIS
TRAFFIC SIGNAL INSTALLATION PLAN

REH PROJECT: 06902 SCALE: NTS

MEI PROJECT: 04119.806 SCALE: NONE

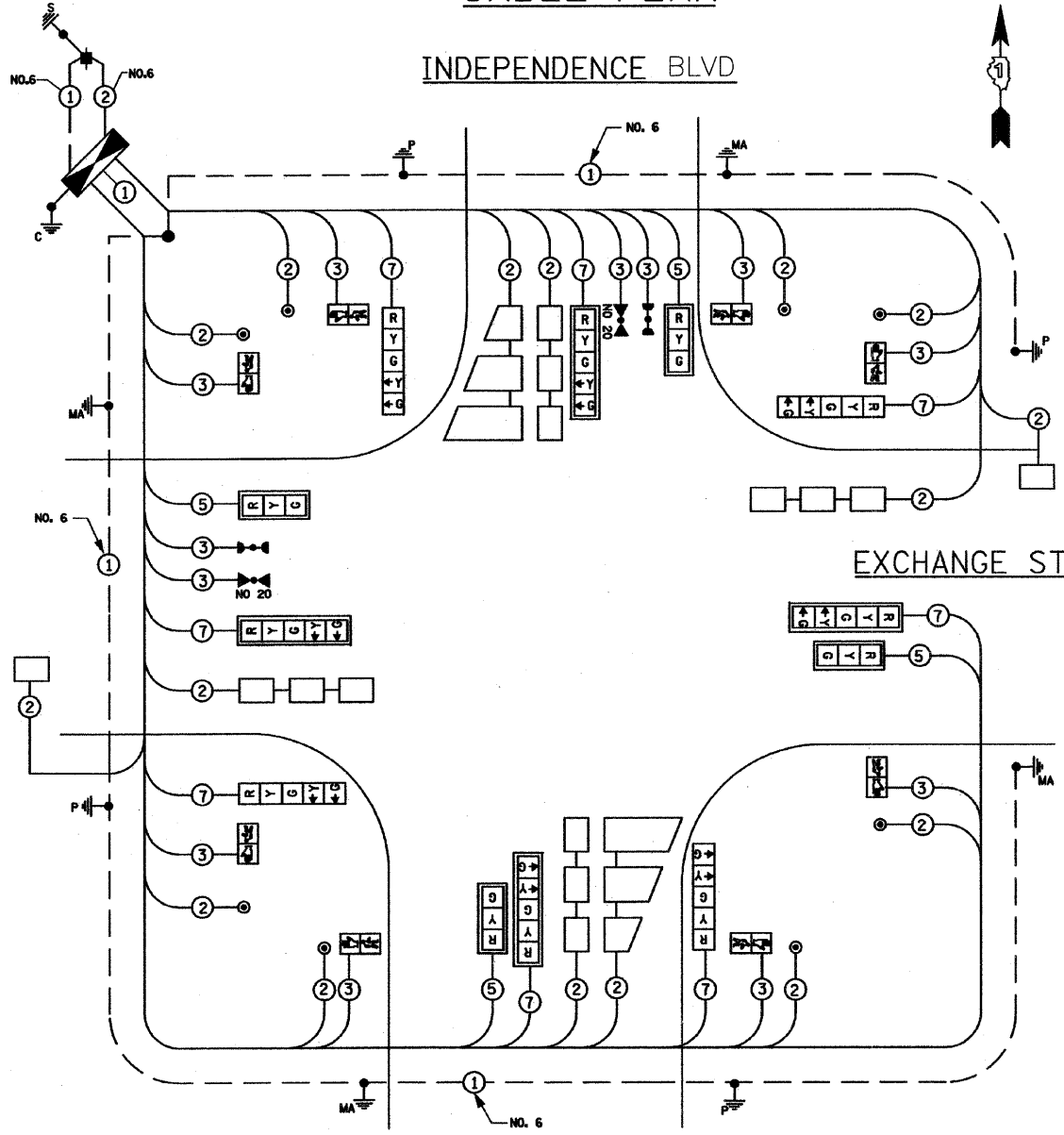
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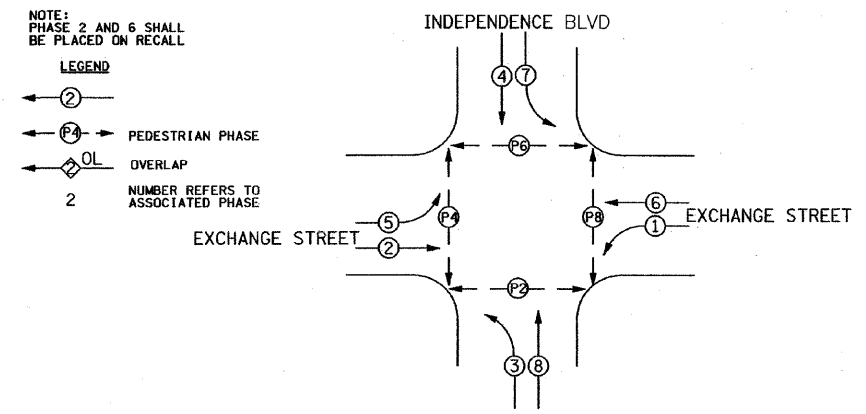
CABLE PLAN LEGEND

- | | | | | | | | | | | | |
|-----------------------------------|------------------------------------|---------------------------------------|---------------------------------------|----------------------------------|----------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------|
| | | | | | | | | | | | |
| 8" (200mm) TRAFFIC SIGNAL SECTION | 12" (300mm) TRAFFIC SIGNAL SECTION | 12" (300mm) PEDESTRIAN SIGNAL SECTION | 12" (300mm) PEDESTRIAN SIGNAL SECTION | RAILROAD CONTROL CABINET | ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN" | ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN" | GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (HD), OR CONTROLLER (C). | GROUND ROD AT POST (P), OR MAST ARM POLE (MA). | GROUND ROD AT ELECTRIC SERVICE INSTALLATION | GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN) | FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F TO BE SHIELDED. |
| | | | | | | | | | | | |
| CONTROLLER CABINET | SERVICE INSTALLATION | TELEPHONE CONNECTION | MAGNETIC DETECTOR | EMERGENCY VEHICLE LIGHT DETECTOR | CONFIRMATION BEACON | PUSHBUTTON DETECTOR | VEHICLE DETECTOR, INDUCTION LOOP | DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. | MICROWAVE VEHICLE SENSOR | | |

CABLE PLAN



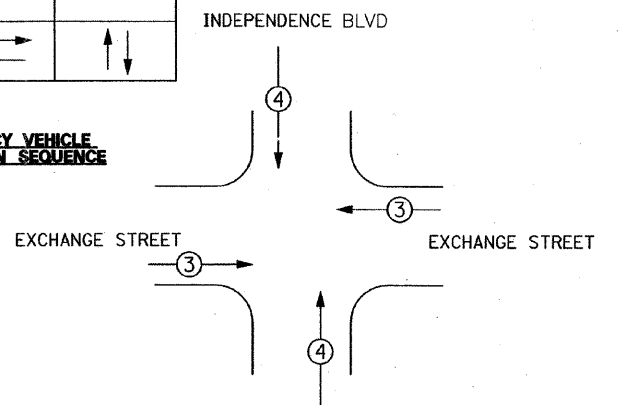
CONTROLLER SEQUENCE PHASE DESIGNATION DIAGRAM



Pay Item	Unit	Quantity
Traffic Control and Protection, Special	Lump Sum	1
Sign Panel, Type 2	Square Foot	45
Conduit in Trench 2" Dia., Galvanized Steel	Foot	531
Conduit in Trench 2 1/2" Dia., Galvanized Steel	Foot	66
Conduit in Trench 4" Dia., Galvanized Steel	Foot	164
Conduit Pushed 2" Dia., Galvanized Steel	Foot	25
Conduit Pushed 4" Dia., Galvanized Steel	Foot	167
Handhole	Each	8
Heavy-Duty Handhole	Each	4
Double Handhole	Each	1
Full-Actuated Controller and Type IV Cabinet (Special)	Each	1
Electric Cable in Conduit Signal No. 14 2C	Foot	1133
Electric Cable in Conduit Signal No. 14 3C	Foot	1310
Electric Cable in Conduit Signal No. 14 5C	Foot	1273
Electric Cable in Conduit Signal No. 14 7C	Foot	717
Electric Cable in Conduit, Service No. 14 1P	Foot	1546
Electric Cable in Conduit, Service No. 8 2C	Foot	21
Traffic Signal Post, Galvanized Steel 18 Ft.	Each	4
Steel Mast Arm Assembly and Pole, 28 Ft.	Each	2
Steel Mast Arm Assembly and Pole, 32 Ft.	Each	1
Steel Mast Arm Assembly and Pole, 38 Ft.	Each	1
Concrete Foundation Type A	Foot	10
Concrete Foundation Type D	Foot	4
Concrete Foundation Type E 30" Diameter	Foot	60
Traffic Signal Backplate, Louvered, Aluminum	Each	8
Inductive Loop Detector	Each	8
Loop Detector, Type I	Foot	627
Light Detector	Each	2
Light Detector Amplifier	Each	1
Pedestrian Push Buttons	Each	8
Electric Cable in Conduit, Grounding No. 6 1C (Green)	Lineal Foot	1500
Traffic Signal Battery Back Up	Each	1
Service Installation, Pole Mounted	Each	1
Signal Head, L.E.D., 1-Face, 3 Section Mast Arm Mounted	Each	4
Signal Head, L.E.D., 1-Face, 5 Section Bracket Mounted	Each	4
Signal Head, L.E.D., 1-Face, 5 Section Mast Arm Mounted	Each	4
Pedestrian Signal Head, L.E.D. 1 Face Bracket Mounted	Each	8
Electric Cable in Conduit, No. 20 3/C Twisted, Shielded	Lineal Foot	1519

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

EMERGENCY VEHICLE PREEMPTION SEQUENCE



NOTE:
EQUIPMENT GROUND CONDUCTOR (GREEN COLOR CODED) SPLICE TO FRAME AND COVER IS REQUIRED FOR ALL HANDHOLES OR DOUBLE HANDHOLES THAT CARRY SIGNAL CABLES AND SERVICE CABLES.

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. LAMPS	WATTAGE (INCAND.)	WATTAGE (LED)	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	135	17	0.50	102.00
(YELLOW)	12	135	25	0.25	75.00
(GREEN)	12	135	15	0.25	45.00
ARROW	16	135	12	0.10	19.20
PED. SIGNAL	8	90	25	1.00	200.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN				0.05	
FLASHER				0.50	
ENERGY COSTS TO:					TOTAL = 541.20

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'4L-2"
E - M. ARM POLE	10 (3.0)	SIGNAL POST	2 (0.6)	BRACKET MOUNTED	6m+L-0.6m
24" (750mm)	15 (4.6)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
		FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

ENERGY SUPPLY CONTACT: Mr. Jim Werner
PHONE: 708 235-2694
COMPANY: COM. ED.

COLBY ZEMAITIS, P.E. ; ROBERT E. HAMILTON CONSULTING ENGINEERS, P.C. ; 815-730-3444

ROBERT E. HAMILTON CONSULTING ENGINEERS P.C.
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REVISIONS		
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MCBRIDE ENGINEERING, INC.
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VILLAGE OF CRETE
EXCHANGE STREET IMPROVEMENTS
CRETE, WILL COUNTY, ILLINOIS
TRAFFIC SIGNAL CABLE PLAN & CONTROLLER SEQUENCE DIAGRAMS

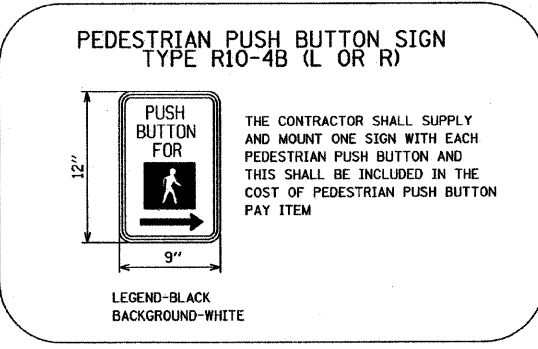
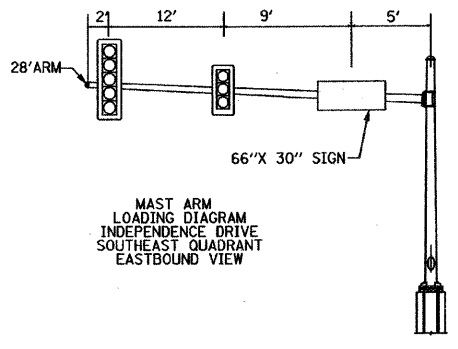
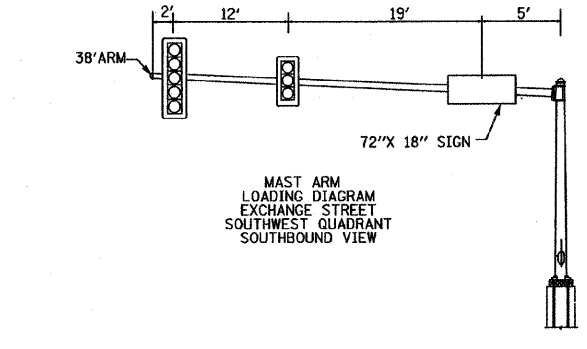
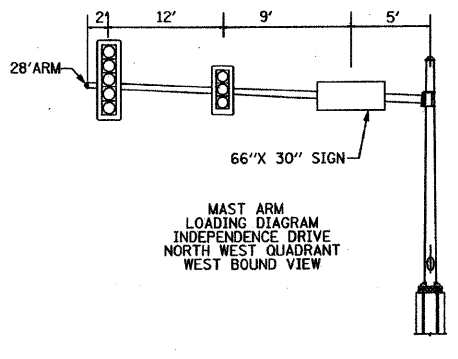
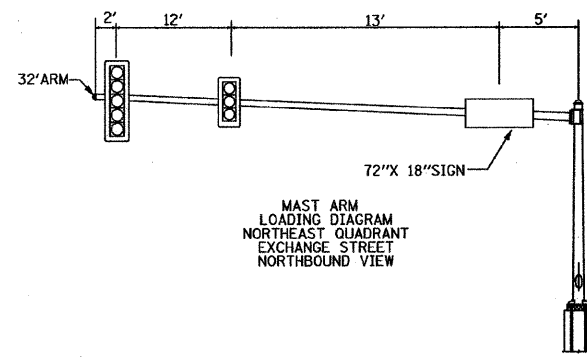
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MEI PROJECT: 04119.806 SCALE: NONE

DRAWN BY: PG/ADM
CHECKED BY: LGB
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	22
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		



GENERAL NOTES FOR TRAFFIC CONTROL SIGNALS

1. THE WILL COUNTY DEPARTMENT OF HIGHWAYS SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNIT. CONTACT JEFF RONALDSON, PERMIT ENGINEER, OR BRUCE GOULD, ASSISTANT COUNTY ENGINEER AT (815) 727-8476 PRIOR TO BEGINNING WORK AND PUTTING THE TRAFFIC SIGNALS IN OPERATION.
2. ALL TRAFFIC SIGNAL HEADS SHALL BE 12-INCH POLYCARBONATE.
3. TRAFFIC SIGNAL HEADS SHALL BE PROPERLY COVERED PRIOR TO INTERSECTION TURN-ON OR AS DIRECTED BY THE ENGINEER. THIS COST SHALL BE INCLUDED WITH THE COST OF THE ASSOCIATED SIGNAL PAY ITEMS.
4. 1/4" DIAMETER CONTINUOUS RODENT RESISTANT NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER. THIS COST SHALL BE INCLUDED WITH THE COST OF CONDUIT PAY ITEMS.
5. ALL MAST ARM MOUNTED SIGNAL HEADS ON AN INDIVIDUAL MAST ARM SHALL BE MOUNTED SO THAT THE RED INDICATIONS ARE LEVEL WITH EACH OTHER.
6. THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.
7. ALL THREADS OF BOLTS USED IN ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR LEAD PLATE, PRIOR TO ASSEMBLY.
8. ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED WITH SEED TO THE SATISFACTION OF THE ENGINEER.
9. ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED. CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.
10. ALL NEW TRAFFIC AND PEDESTRIAN SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL SPLICES IN JUNCTION BOXES
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNAL AND STREET LIGHTING. REMOTE MONITORING CAPABILITIES NEED TO BE INSTALLED INCLUDING PHONE SERVICE, CONDUIT, AND ALL NECESSARY EQUIPMENT FOR TWO-WAY COMMUNICATION WITHIN THE TRAFFIC SIGNAL CONTROL EQUIPMENT. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO BEGINNING WORK TO OBTAIN THE UTILITY COMPANY REQUIREMENTS FOR THE SERVICE INSTALLATION.
12. DOUBLE BREAKAWAY FUSED FUSE HOLDERS AND SURGE ARRESTERS ARE TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR IN THE BASE OF THE COMBINATION MAST ARMS AS INCIDENTAL TO THE PAY ITEM.
13. THE CONTROLLER SHALL BE TS1 AND TS2 COMPATIBLE.
14. ALL GROUNDING MATERIALS FOR TRAFFIC SIGNAL CONCRETE FOUNDATIONS SHALL REFER TO SECTION 807 IN THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2002.
15. THE YELLOW AND GREEN LED ARROW SECTIONS SHALL HAVE THREE ROWS OF LEDS LIEU OF TWO ROWS.
16. ALL DETECTOR LOOPS SHALL CONSIST OF THE NUMBER OF TURNS REQUIRED AND SHALL BE INSTALLED IN STRICT CONFORMITY WITH THE LOOP DETECTOR AMPLIFIER MANUFACTURE'S RECOMMENDATIONS.
17. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR LOCATION OF UTILITES CALL J.U.L.I.E. 1-800-892-0123.
18. ALL SIGNAL AND PEDESTRIAN HEADS SHALL BE LIGHT EMITTING DIODE (LED) BASED ON ADVANCED INDIUM-BASED LED TECHNOLOGY BY THE DIALIGHT COMPANY (MAXIMUM 18 LED'S / 12" HEAD) OR APPROVED EQUAL INCLUDING POLYCARBONATE BACKPLATES WITH DEEP BACK FLANGE.
19. THE EXACT LOCATION OF THE DETECTOR LOOPS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
20. THE PROPOSED TRAFFIC SIGNAL CONTROL CABINET SHALL BE FURNISHED WITH A MANUAL CONTROL SWITCH AND MANUAL CORD WITHIN THE POLICE DOOR COMPARTMENT AS WELL AS A PHONE MODEM INSIDE THE CABINET AS INCIDENTAL TO THE CONTROLLER PAY ITEM. THE FULL ACTUATED CONTROLLER SHALL BE ECONOLITE.
21. THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLY REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNAL IS TURNED ON AS INCIDENTAL TO THE CONTROLLER PAY ITEM. HE/SHE SHALL BE CAPABLE OF MAKING CERTAIN THAT THE CONTROL EQUIPMENT IS WORKING TO THE SATISFACTION OF THE ENGINEER.
22. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT GREATER THAN 30" MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
23. THE CONTROLLER CABINET SHALL BE PLACED SO A TECHNICIAN CAN SEE THE INTERSECTION OVER THE TOP OF THE CABINET WHILE WATCHING THE COMPONENTS IN THE CABINET.
24. THE CONTRACTOR SHALL PROVIDE A SELF-ADHERED PHASE DIAGRAM ON THE INSIDE OF THE CONTROLLER CABINET DOOR.
25. THE DIMENSIONS AND LOCATIONS OF UTILITY FACILITIES AS SHOWN ON THE PLANS ARE AN ESTIMATE FOR DESIGN PURPOSES ONLY AND ARE NOT INTENDED FOR USE AS FIELD LOCATIONS FOR CONSTRUCTION.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY ARE NOT SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER OR OWNER.
27. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THIS PROJECT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR FAILURE TO VERIFY EXISTING CONDITIONS OR DIMENSIONS.
28. THE CONTRACTOR AT HIS OWN EXPENSE SHALL BE REQUIRED TO RELOCATE ALL ROAD SIGNS WHICH INTERFERE WITH HIS CONSTRUCTION OPERATIONS AND TO TEMPORARILY RESET SUCH SIGNS DURING HIS CONSTRUCTION OPERATIONS. ALL WORK INVOLVING SIGNS SHALL BE COVERED BY THE FOLLOWING REQUIREMENTS:
 - A. SIGNS SHALL NOT BE REMOVED UNTIL PROGRESS OF WORK NECESSITATES REMOVAL.
 - B. EVERY SIGN REMOVED MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORK-MANLIKE MANNER VISIBLE TO TRAFFIC ON THE ROADWAY. ALL SUCH SIGNS SHALL BE MAINTAINED STRAIGHT AND NEAT LOOKING FOR THE DURATION OF THE TEMPORARY SETTING.
 - C. ALL SIGNS MUST BE RE-ERECTED IN THEIR PERMANENT LOCATIONS AS DESIGNATED BY THE ENGINEER AS THE SIGNAL WORK IS COMPLETED.
 - D. ANY SIGNS OR POSTS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT HIS OWN EXPENSE.
29. A BATTERY BACK-UP SYSTEM, NOVUS XT 1000P UNIT OR APPROVED EQUAL, CAPABLE OF THREE (3) HOURS MINIMUM BATTERY LIFE TO PROVIDE ONE (1) HOUR OF FULL FUNCTIONING SIGNALS AND TWO (2) HOURS OF FLASHING RED SHALL BE INSTALLED IN THE CONTROLLER CABINET (TYPE IV CABINET WITH AN EXTERNAL BATTERY ENCLOSURE).
30. THE CONTROLLER CABINET SHALL BE EQUIPPED WITH A 9600 BAND, AUTO DIAL / AUTO ANSWER, MODEM. IT SHALL BE A U.S. ROBOTICS 33.6K BAND RATE OR APPROVED EQUAL.

COLBY ZEMAITIS, P.E. ; ROBERT E. HAMILTON CONSULTING ENGINEERS, P.C. ; 815-730-3444

ROBERT E. HAMILTON
CONSULTING ENGINEERS P.C.
3230 EXECUTIVE DRIVE
JOLIET, ILLINOIS 60431
PHONE: 815-730-3444
FAX: 815-730-6703

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

McBRIDE ENGINEERING, INC.
CIVIL ENGINEERS & SURVEYORS
ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803

CORPORATE: 3645 W. 183rd Street Suite 124
Hazel Crest, IL 60429-2409
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Arlington Heights, IL 60005-2038
847-394-4810

VILLAGE OF CRETE
EXCHANGE STREET IMPROVEMENTS
CRETE, WILL COUNTY, ILLINOIS

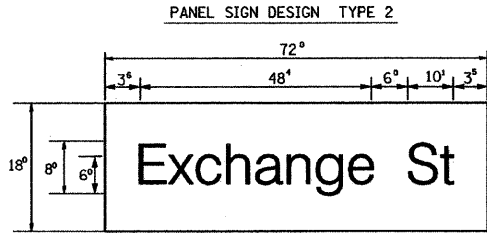
MAST ARM & SIGNAL POST
LOADING DIAGRAMS & GENERAL NOTES

DATE: 7-3-09

DRAWN BY: PG/ADM
CHECKED BY: LGB

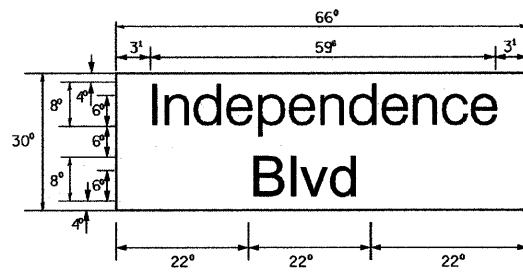
REH PROJECT: 06902 SCALE: NTS

MEI PROJECT: 04119.806 SCALE: NONE



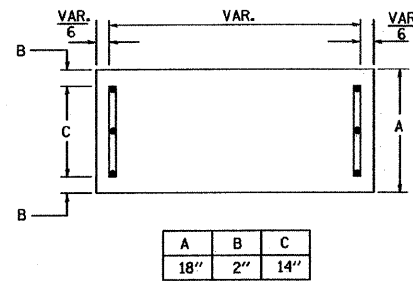
9.00 Sq. Ft. each
2 Required
Design Series D

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

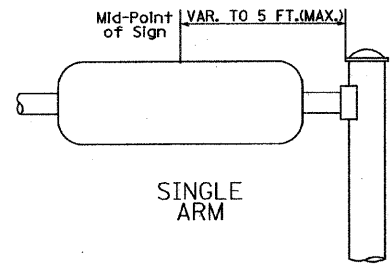


13.75 Sq. Ft. each
2 Required
Design Series C

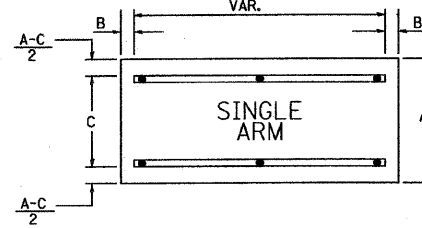
SUPPORTING CHANNELS



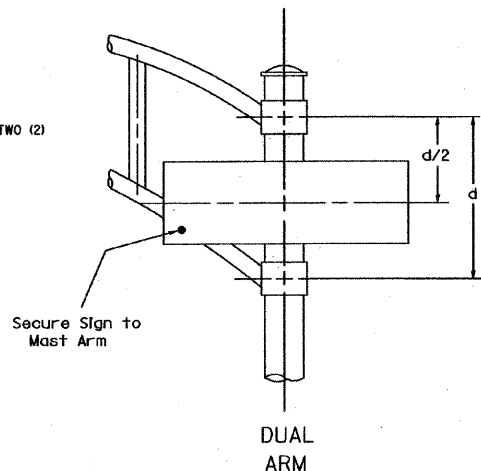
A	B	C
18"	2"	14"



SUPPORTING CHANNELS



A	B	C
18"	2"	12"
30"	2"	22"



SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM
Shall be used. See Note #5.

Upper Case To Lower Case
Spacing Chart 8-6 Inch Series "C & D"

EXAMPLE, 2³ DENOTES $\frac{3"}{8}$

FIRST LETTER		SECOND LETTER															
		a c d e		b h i k l		f w		J		s t		v y		x		z	
		g o q	m n p r u														
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	
A W X	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ¹	1 ⁴	0 ⁶	1 ⁰	1 ¹	1 ²	1 ²	1 ⁴	
B	1 ⁴	1 ⁵	2 ⁰	2 ¹	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁶	1 ⁷	
C E G	1 ⁴	1 ⁵	2 ⁰	2 ¹	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	
D O Q R	1 ⁴	1 ⁵	2 ⁰	2 ¹	1 ⁴	1 ⁵	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	
F	0 ⁵	0 ⁶	1 ⁴	1 ⁵	0 ⁶	1 ⁰	0 ⁵	0 ⁶	0 ⁶	1 ⁰	0 ⁶	1 ⁰	0 ⁶	1 ⁰	1 ¹	1 ²	
H I M N	2 ⁰	2 ¹	2 ²	2 ⁴	2 ⁰	2 ¹	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ⁶	1 ⁷	2 ⁰	2 ¹	2 ⁰	2 ¹	
J U	2 ⁰	2 ¹	2 ⁰	2 ¹	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁶	1 ⁷	2 ⁰	2 ¹	
K L	1 ¹	1 ²	1 ⁶	1 ⁷	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴	
P	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁴	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴	1 ²	1 ⁴	
S	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴	
T	1 ¹	1 ²	1 ⁶	1 ⁷	0 ⁶	1 ⁰	0 ⁶	1 ⁰	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴	
V	0 ⁶	1 ⁰	1 ⁴	1 ⁵	1 ¹	1 ²	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴	
Y	0 ⁵	0 ⁶	1 ⁴	1 ⁵	0 ⁶	1 ⁰	0 ⁵	0 ⁶	0 ⁵	0 ⁷	0 ⁵	0 ⁶	0 ⁶	1 ⁰	1 ¹	1 ²	
Z	1 ⁶	1 ⁷	2 ²	2 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁶	1 ⁷	2 ⁰	2 ¹	

UPPER AND LOWER CASE
LETTER WIDTHS

L E T T E R S	6 INCH UPPER CASE LETTERS				L E T T E R S	6 INCH LOWER CASE LETTERS			
	SERIES		SERIES			SERIES		SERIES	
	C	D	C	D		C	D	C	D
A	3 ⁶	5 ⁰	5 ⁰	6 ⁵	a	3 ⁵	4 ²		
B	3 ²	4 ⁰	4 ³	5 ³	b	3 ⁵	4 ²		
C	3 ²	4 ⁰	4 ³	5 ³	c	3 ⁵	4 ¹		
D	3 ²	4 ⁰	4 ³	5 ³	d	3 ⁵	4 ²		
E	3 ⁰	3 ⁵	4 ⁰	4 ⁷	e	3 ⁵	4 ²		
F	3 ⁰	3 ⁵	4 ⁰	4 ⁷	f	2 ³	2 ⁶		
G	3 ²	4 ⁰	4 ³	5 ³	g	3 ⁵	4 ²		
H	3 ²	4 ⁰	4 ³	5 ³	h	3 ⁵	4 ²		
I	0 ⁷	0 ⁷	1 ¹	1 ²	i	1 ¹	1 ¹		
J	3 ⁰	3 ⁶	4 ⁰	5 ⁰	j	2 ⁰	2 ²		
K	3 ²	4 ¹	4 ³	5 ⁴	k	3 ⁵	4 ²		
L	3 ⁰	3 ⁵	4 ⁰	4 ⁷	l	1 ¹	1 ¹		
M	3 ⁷	4 ⁵	5 ¹	6 ¹	m	6 ⁰	7 ⁰		
N	3 ²	4 ⁰	4 ³	5 ³	n	3 ⁵	4 ²		
O	3 ⁴	4 ²	4 ⁵	5 ⁵	o	3 ⁶	4 ³		
P	3 ²	4 ⁰	4 ³	5 ³	p	3 ⁵	4 ²		
Q	3 ⁴	4 ²	4 ⁵	5 ⁵	q	3 ⁵	4 ²		
R	3 ²	4 ⁰	4 ³	5 ³	r	2 ⁶	3 ²		
S	3 ²	4 ⁰	4 ³	5 ³	s	3 ⁶	4 ²		
T	3 ⁰	3 ⁵	4 ⁰	4 ⁷	t	2 ⁷	3 ²		
U	3 ²	4 ⁰	4 ³	5 ³	u	3 ⁵	4 ²		
V	3 ⁵	4 ⁴	4 ⁷	6 ⁰	v	4 ²	4 ⁷		
W	4 ⁴	5 ²	6 ⁰	7 ⁰	w	5 ⁵	6 ⁴		
X	3 ⁴	4 ⁰	4 ⁵	5 ³	x	4 ⁴	5 ¹		
Y	3 ⁶	5 ⁰	5 ⁰	6 ⁶	y	4 ⁶	5 ³		
Z	3 ²	4 ⁰	4 ³	5 ³	z	3 ⁶	4 ³		

N U M B E R	6 INCH SERIES		8 INCH SERIES	
	C	D	C	D
	1	1 ²	1 ⁴	1 ⁵
2	3 ²	4 ⁰	4 ³	5 ³
3	3 ²	4 ⁰	4 ³	5 ³
4	3 ⁵	4 ³	4 ⁷	5 ⁷
5	3 ²	4 ⁰	4 ³	5 ³
6	3 ²	4 ⁰	4 ³	5 ³
7	3 ²	4 ⁰	4 ³	5 ³
8	3 ²	4 ⁰	4 ³	5 ³
9	3 ²	4 ⁰	4 ³	5 ³
0	3 ⁴	4 ²	4 ⁵	5 ⁵

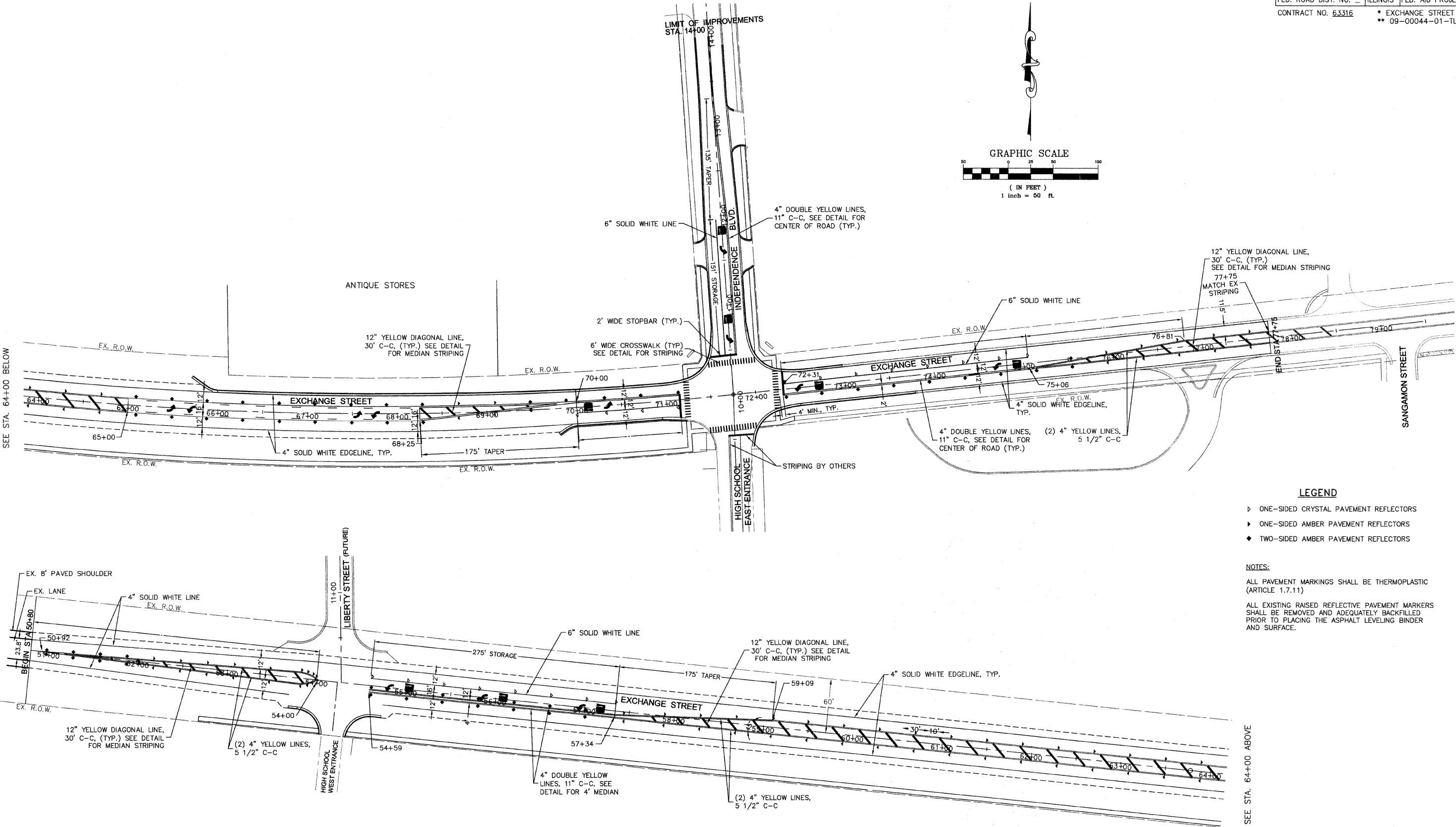
Lower Case To Lower Case
Spacing Chart 6 Inch Series "C & D"

FIRST LETTER		SECOND LETTER															
		a c d e		b h i k l		f w		J		s t		v y		x		z	
		g o q	m n p r u														
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	
a d h g i j	1 ⁶	1 ⁷	2 ²	2 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁶	1 ⁷	
l m n q u																	
b f k o p s	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴	1 ²	1 ⁴	
c e	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴	
r	0 ⁶	1 ⁰	1 ²	1 ⁴	0 ⁶	1 ⁰	0 ³	0 ³	0 ⁵	0 ⁶	0 ⁵	0 ⁶	0 ⁶	1 ⁰	0 ⁶	1 ⁰	
t z	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴	
v y	1 ¹	1 ²	1 ⁴	1 ⁵	1 ¹	1 ²	0 ⁵	0 ⁶	0 ⁶	1 ⁰	0 ⁶	1 ⁰	1 ¹	1 ²	1 ¹	1 ²	
w	1 ¹	1 ²	1 ⁴	1 ⁵	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴	
x	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴	

Number To Number
Spacing Chart 8 Inch Series "C & D"

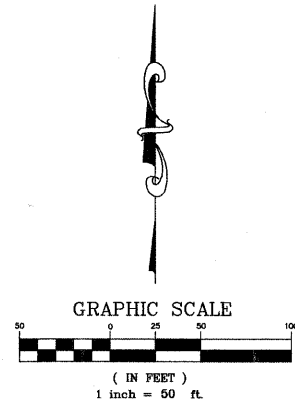
FIRST NUMBER		SECOND NUMBER																			
		0		1		2		3		4		5		6		7		8		9	
		C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	
0 9	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁴	
1	2 ⁰	2 ¹	2 ⁰	2 ¹	2 ⁰	2 ¹	1 ⁶	1 ⁷	1 ⁴	1 ⁵	2 ⁰	2 ¹	2 ⁰	2 ¹	1 ⁴	1 ⁵	2 ⁰	2 ¹	2 ⁰	2 ¹	
2 3 4	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵	1 ⁴	1 ⁵	
5	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	
6	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵	1 ⁴	1 ⁵	
7	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴																

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	24
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63316		* EXCHANGE STREET	** 09-00044-01-TL	



SEE STA. 64+00 BELOW

SEE STA. 64+00 ABOVE

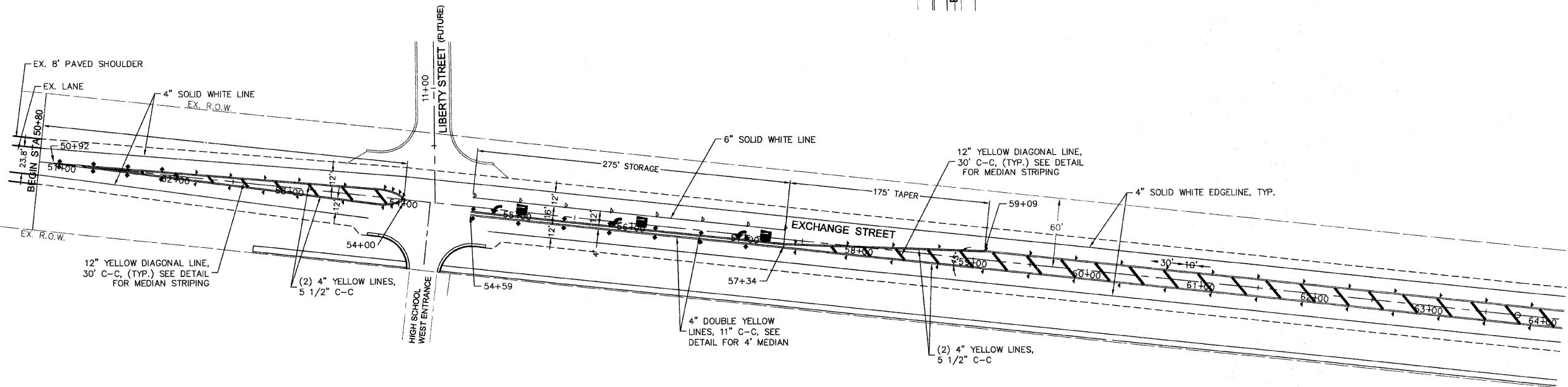


- LEGEND**
- ▷ ONE-SIDED CRYSTAL PAVEMENT REFLECTORS
 - ▷ ONE-SIDED AMBER PAVEMENT REFLECTORS
 - ◆ TWO-SIDED AMBER PAVEMENT REFLECTORS

NOTES:

ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (ARTICLE 1.7.11)

ALL EXISTING RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE REMOVED AND ADEQUATELY BACKFILLED PRIOR TO PLACING THE ASPHALT LEVELING BINDER AND SURFACE.



REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

McBRIDE ENGINEERING, INC.
 CIVIL ENGINEERS & SURVEYORS
 ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803

CORPORATE: 3645 W. 183rd Street Suite 124
 Hazel Crest, IL 60429-2409
 708-799-1350

ARLINGTON HEIGHTS DIVISION
 320 S. Belmont Avenue
 Arlington Heights, IL 60005-2038
 847-394-4810

MEI PROJECT: 04119.806 SCALE: 1"=50'

VILLAGE OF CRETE
 EXCHANGE STREET IMPROVEMENTS
 CRETE, WILL COUNTY, ILLINOIS

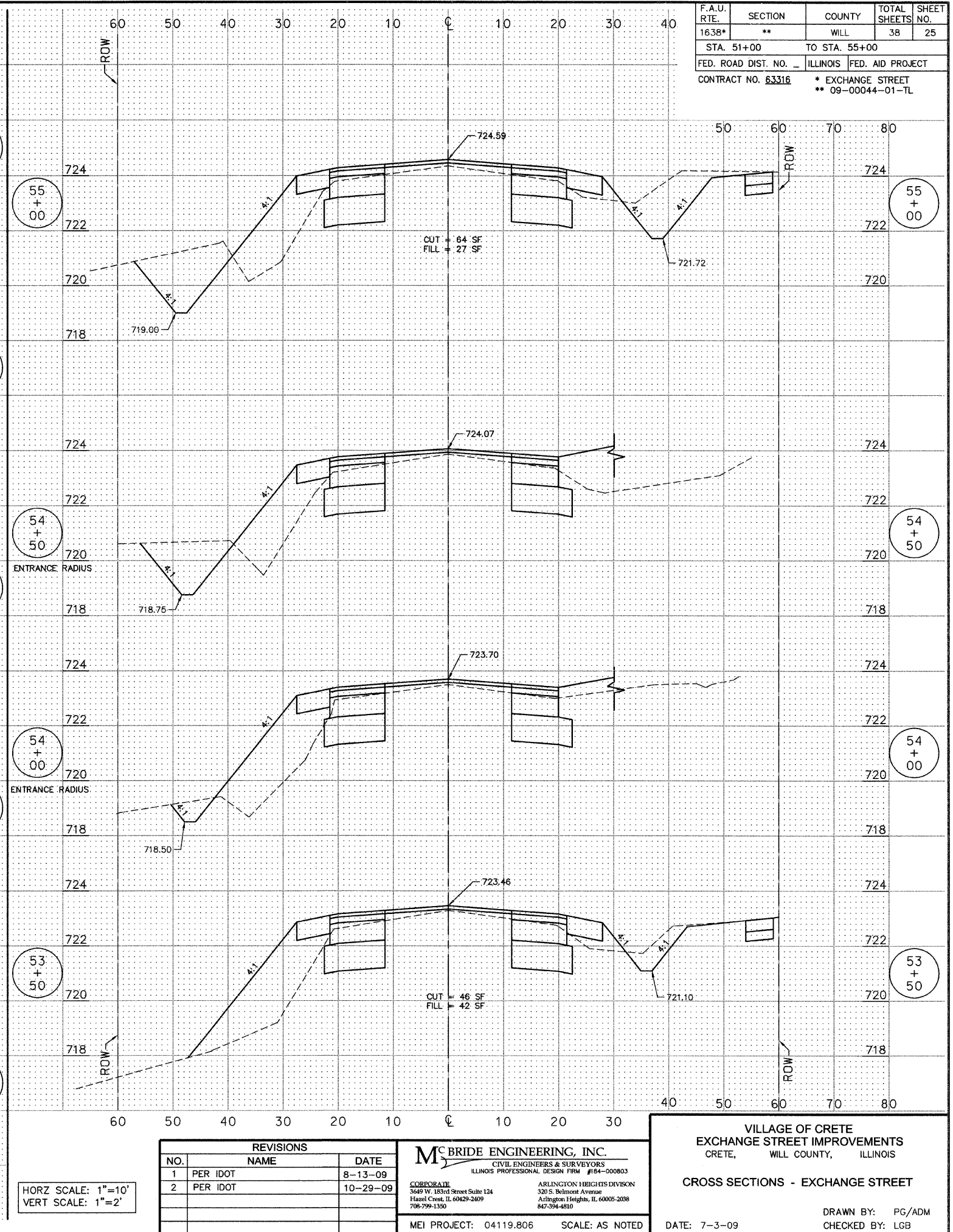
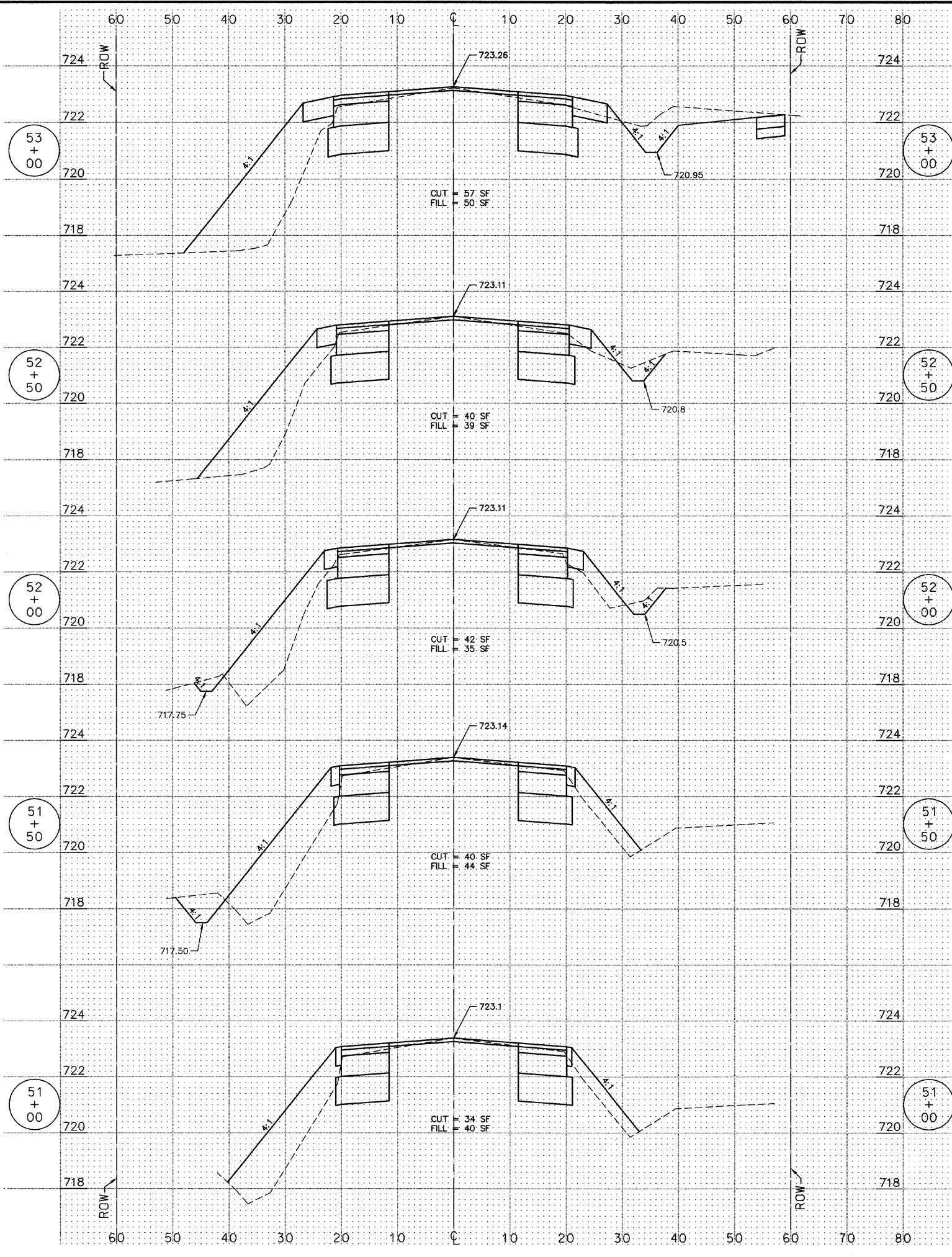
PAVEMENT MARKING

DATE: 7-3-09

DRAWN BY: PG/ADM
 CHECKED BY: LGB

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	25
STA. 51+00		TO STA. 55+00		
FED. ROAD DIST. NO. _		ILLINOIS		FED. AID PROJECT
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		



M:\2004\04119.4.dwg\04119.806_CROSS_SECTIONS.dwg 10/29/2009 11:42:31 AM CDT

HORZ SCALE: 1"=10'
VERT SCALE: 1"=2'

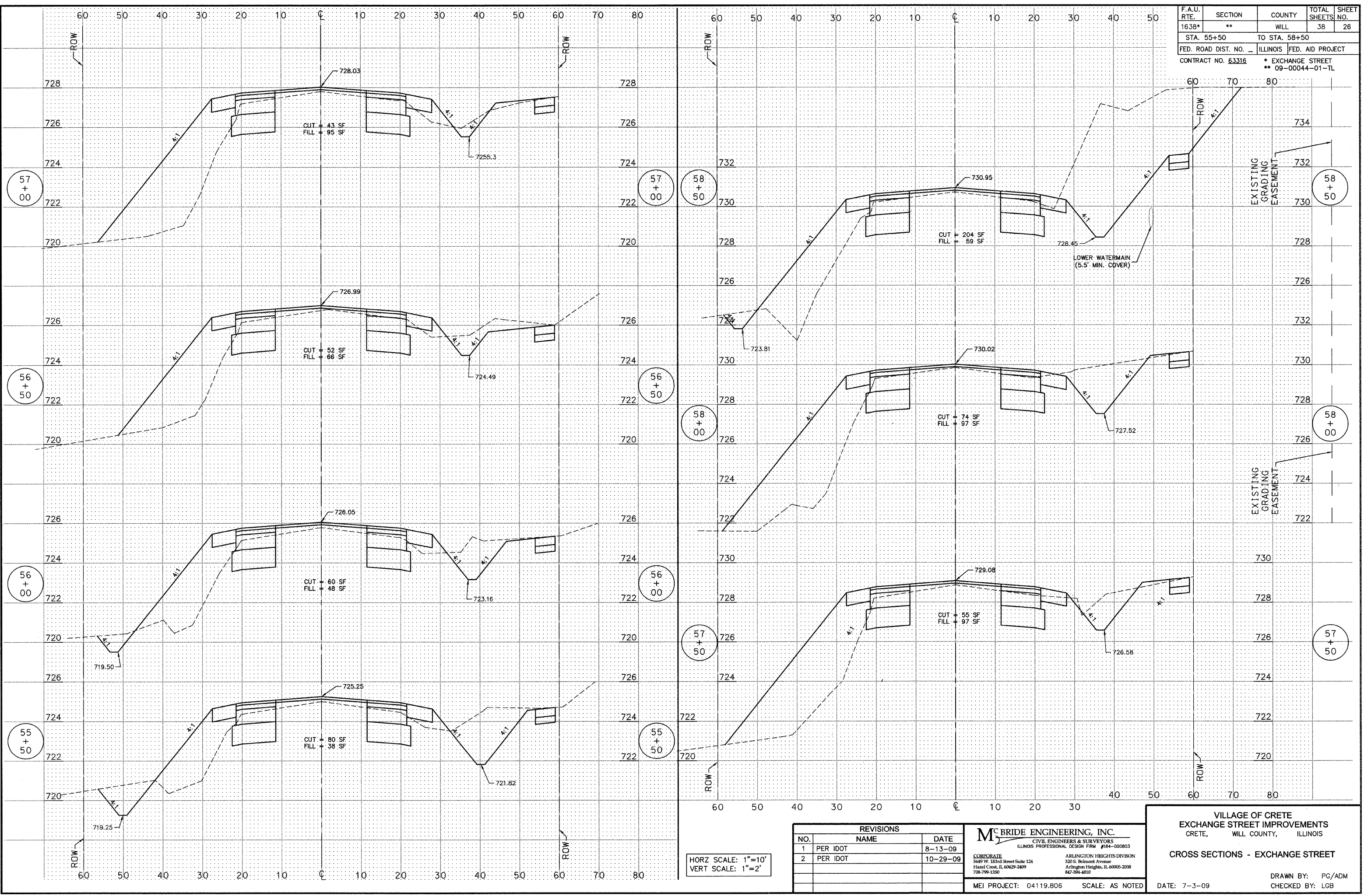
REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

MC BRIDE ENGINEERING, INC.
 CIVIL ENGINEERS & SURVEYORS
 ILLINOIS PROFESSIONAL DESIGN FIRM #04-000803
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 Hazel Crest, IL 60429-2409
 708-799-1350
 ARLINGTON HEIGHTS DIVISION
 320 S. Belmont Avenue
 Arlington Heights, IL 60005-2038
 847-394-4810
 MEI PROJECT: 04119.806 SCALE: AS NOTED

VILLAGE OF CRETE
 EXCHANGE STREET IMPROVEMENTS
 CRETE, WILL COUNTY, ILLINOIS
 CROSS SECTIONS - EXCHANGE STREET
 DATE: 7-3-09
 DRAWN BY: PG/ADM
 CHECKED BY: LGB

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	26
STA. 55+50		TO STA. 58+50		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		



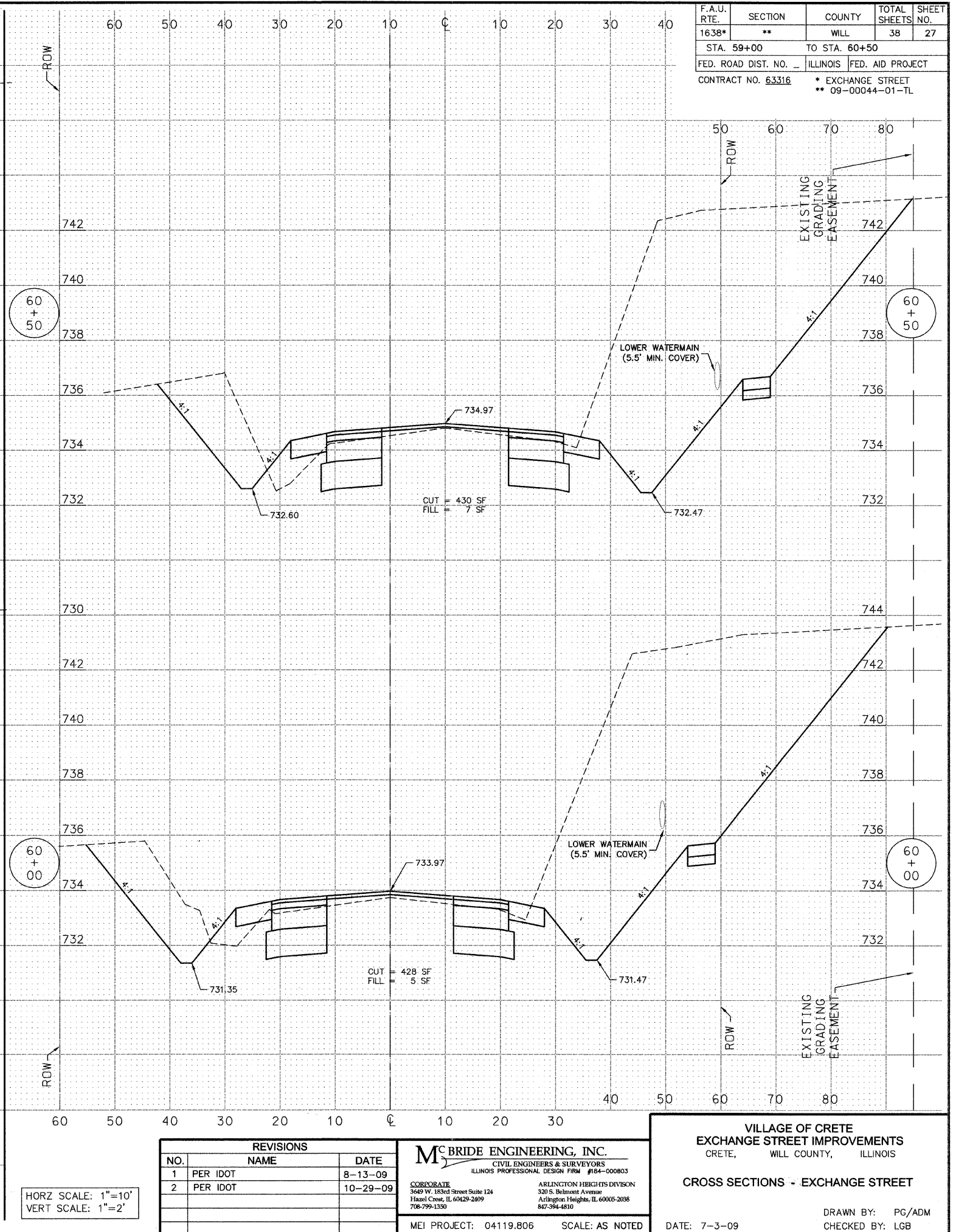
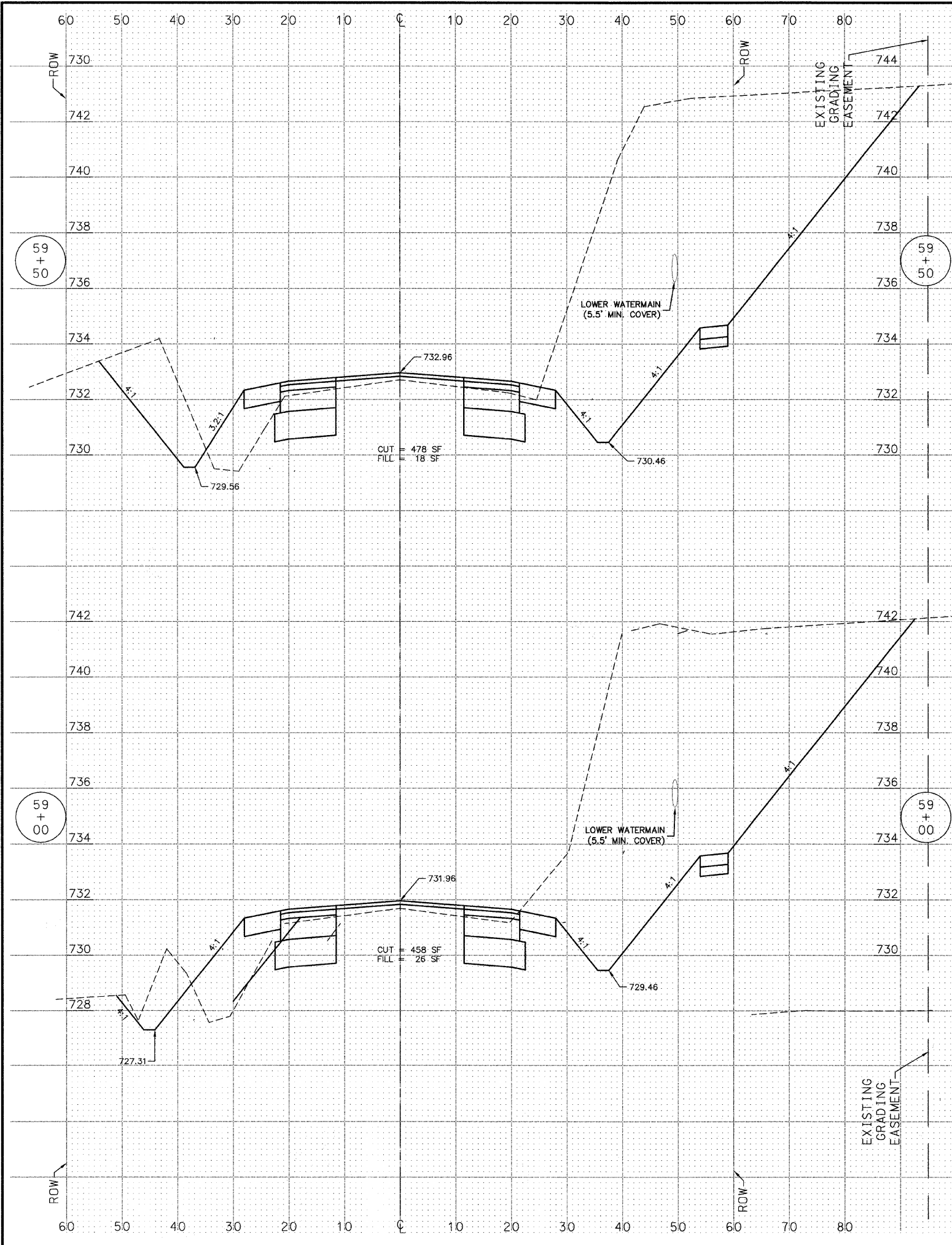
HORZ SCALE: 1"=10'
VERT SCALE: 1"=2'

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

MC BRIDE ENGINEERING, INC.
 CIVIL ENGINEERS & SURVEYORS
 ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803
 CORPORATE: 3649 W. 183rd Street Suite 124
 Hazel Crest, IL 60429-2409
 708-999-1350
 ARLINGTON HEIGHTS DIVISION
 320 S. Belmont Avenue
 Arlington Heights, IL 60005-2038
 847-394-4810
 MEI PROJECT: 04119.806 SCALE: AS NOTED

VILLAGE OF CRETE
 EXCHANGE STREET IMPROVEMENTS
 CRETE, WILL COUNTY, ILLINOIS
 CROSS SECTIONS - EXCHANGE STREET
 DATE: 7-3-09
 DRAWN BY: PG/ADM
 CHECKED BY: LGB

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	27
STA. 59+00		TO STA. 60+50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		



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HORZ SCALE: 1"=10'
VERT SCALE: 1"=2'

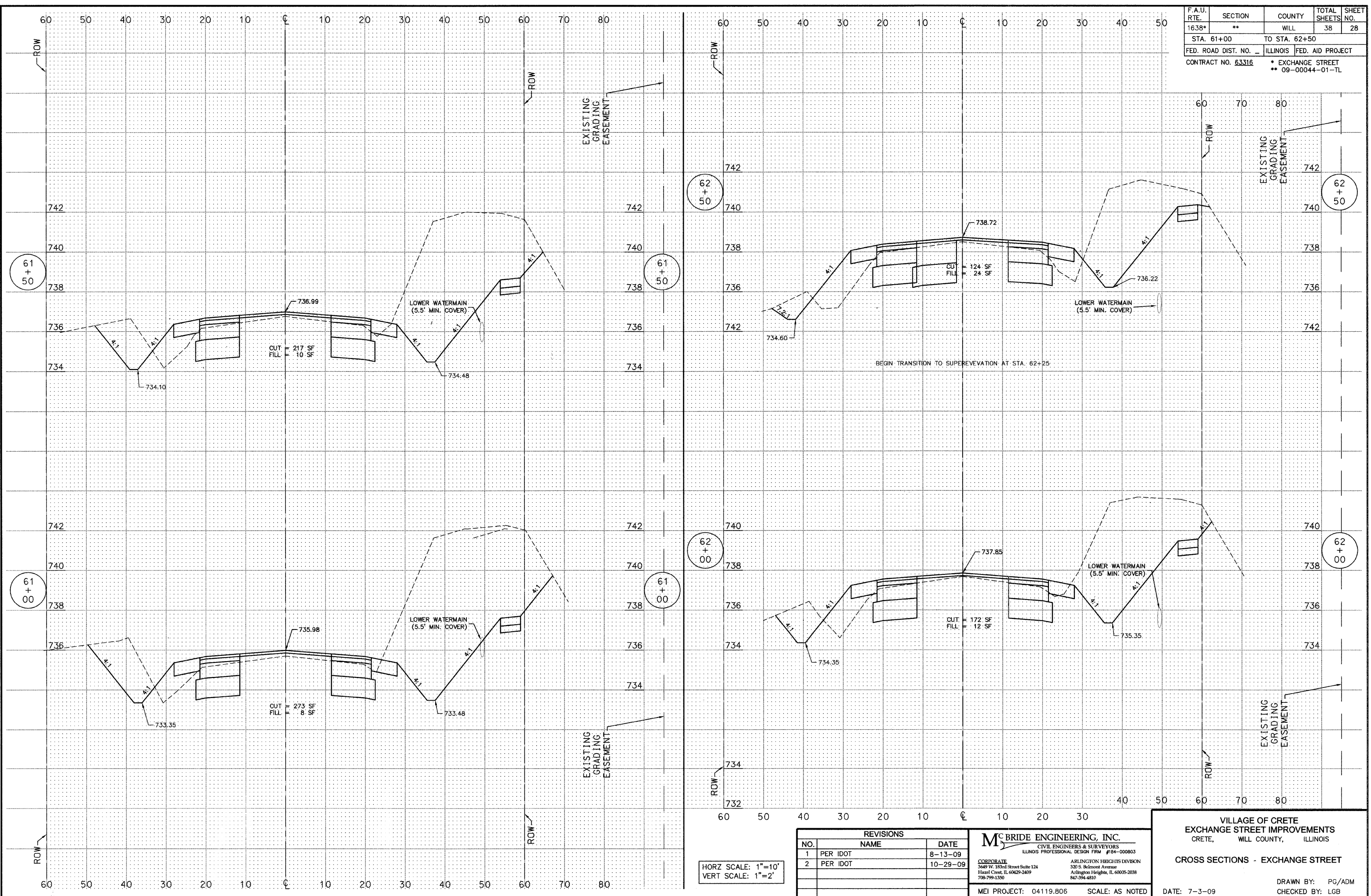
REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

MC BRIDE ENGINEERING, INC.
 CIVIL ENGINEERS & SURVEYORS
 ILLINOIS PROFESSIONAL DESIGN FIRM #164-000803
 CORPORATE: 3409 W. 183rd Street Suite 124
 Hazel Crest, IL 60429-2409
 708-799-1330
 ARLINGTON HEIGHTS DIVISION
 320 S. Belmont Avenue
 Arlington Heights, IL 60005-2008
 847-394-4810

VILLAGE OF CRETE
 EXCHANGE STREET IMPROVEMENTS
 CRETE, WILL COUNTY, ILLINOIS
 CROSS SECTIONS - EXCHANGE STREET
 DATE: 7-3-09
 DRAWN BY: PG/ADM
 CHECKED BY: LGB

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	28
STA. 61+00		TO STA. 62+50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		



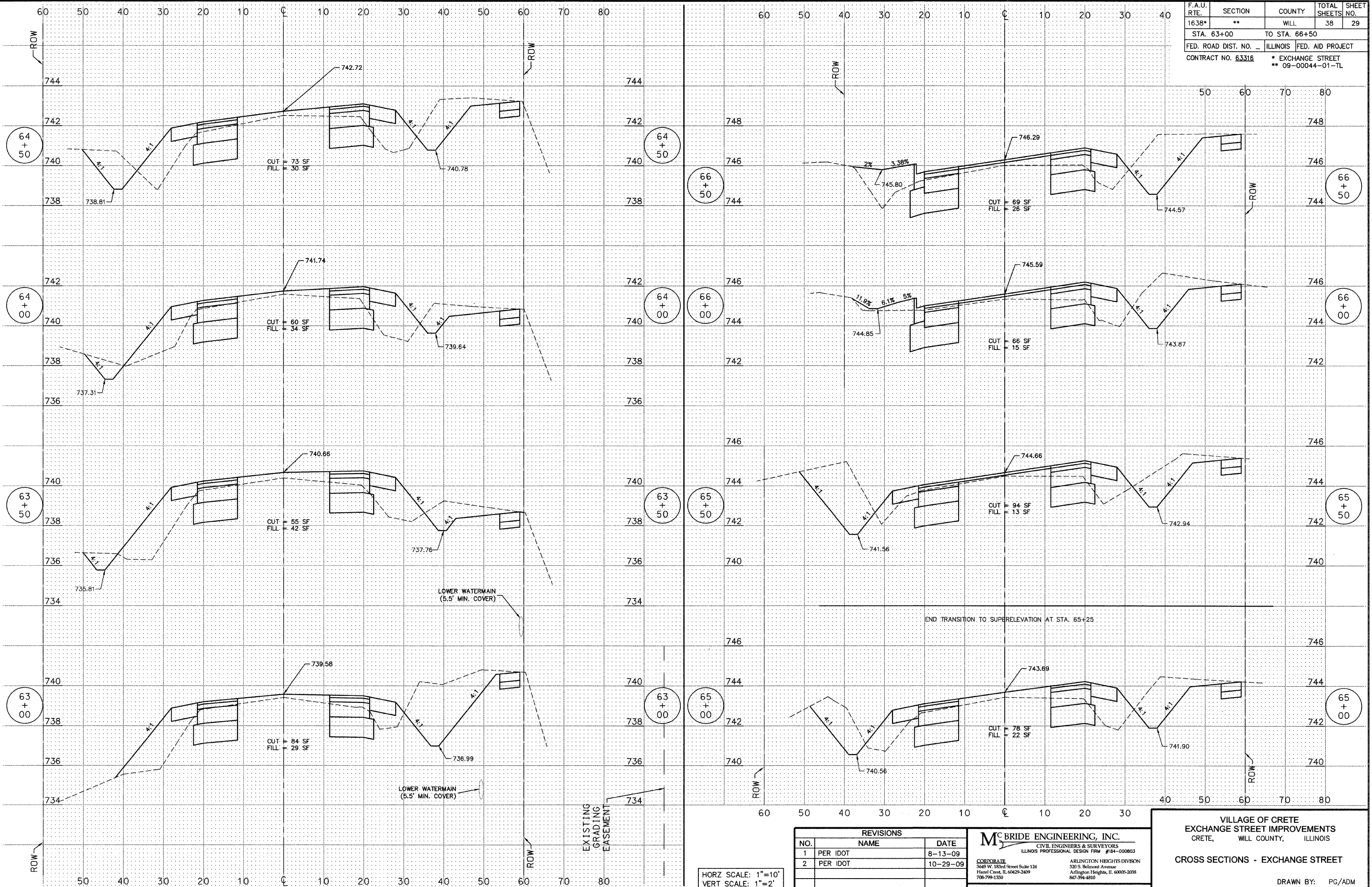
HORIZ SCALE: 1"=10'
VERT SCALE: 1"=2'

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

MC BRIDE ENGINEERING, INC.
 CIVIL ENGINEERS & SURVEYORS
 ILLINOIS PROFESSIONAL DESIGN FIRM #054-000803
 CORORATE: 3649 W. 183rd Street Suite 124
 Hazel Crest, IL 60429-2409
 708-799-1350
 ARLINGTON HEIGHTS DIVISION
 320 S. Belmont Avenue
 Arlington Heights, IL 60005-2038
 847-394-4810
 MEI PROJECT: 04119.806 SCALE: AS NOTED

VILLAGE OF CRETE
 EXCHANGE STREET IMPROVEMENTS
 CRETE, WILL COUNTY, ILLINOIS
 CROSS SECTIONS - EXCHANGE STREET
 DATE: 7-3-09
 DRAWN BY: PG/ADM
 CHECKED BY: LGB

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	29
STA. 63+00		TO STA. 66+50		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		



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HORZ SCALE: 1"=10'
VERT SCALE: 1"=2'

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

MC BRIDE ENGINEERING, INC.
 CIVIL ENGINEERS & SURVEYORS
 ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803

CORPORATE: 3469 W. 183rd Street Suite 124, Hazel Crest, IL 60429-2409, 708-799-1350
 ARLINGTON HEIGHTS DIVISION: 320 S. Belmont Avenue, Arlington Heights, IL 60005-2038, 847-394-4810

MEI PROJECT: 04119.806 SCALE: AS NOTED

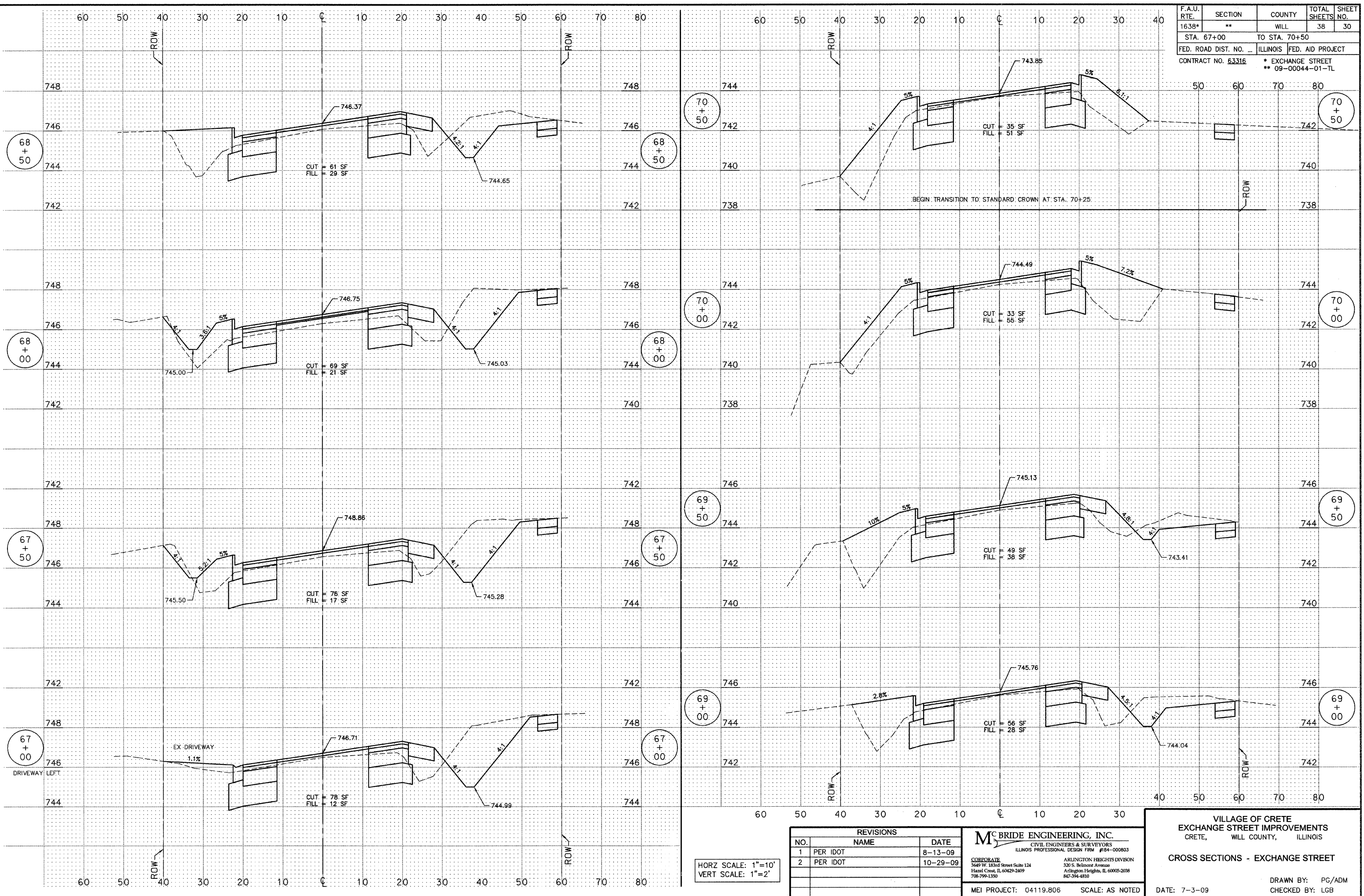
VILLAGE OF CRETE
 EXCHANGE STREET IMPROVEMENTS
 CRETE, WILL COUNTY, ILLINOIS

CROSS SECTIONS - EXCHANGE STREET

DATE: 7-3-09

DRAWN BY: PG/ADM
 CHECKED BY: LGB

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	30
STA. 67+00		TO STA. 70+50		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		



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HORZ SCALE: 1"=10'
VERT SCALE: 1"=2'

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

McBRIDE ENGINEERING, INC.
 CIVIL ENGINEERS & SURVEYORS
 ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803

CORPORATE
 3649 W. 183rd Street Suite 124
 Hazel Crest, IL 60429-2409
 708-799-1350

ARLINGTON HEIGHTS DIVISION
 320 S. Belmont Avenue
 Arlington Heights, IL 60005-2038
 847-394-4810

MEI PROJECT: 04119.806 SCALE: AS NOTED

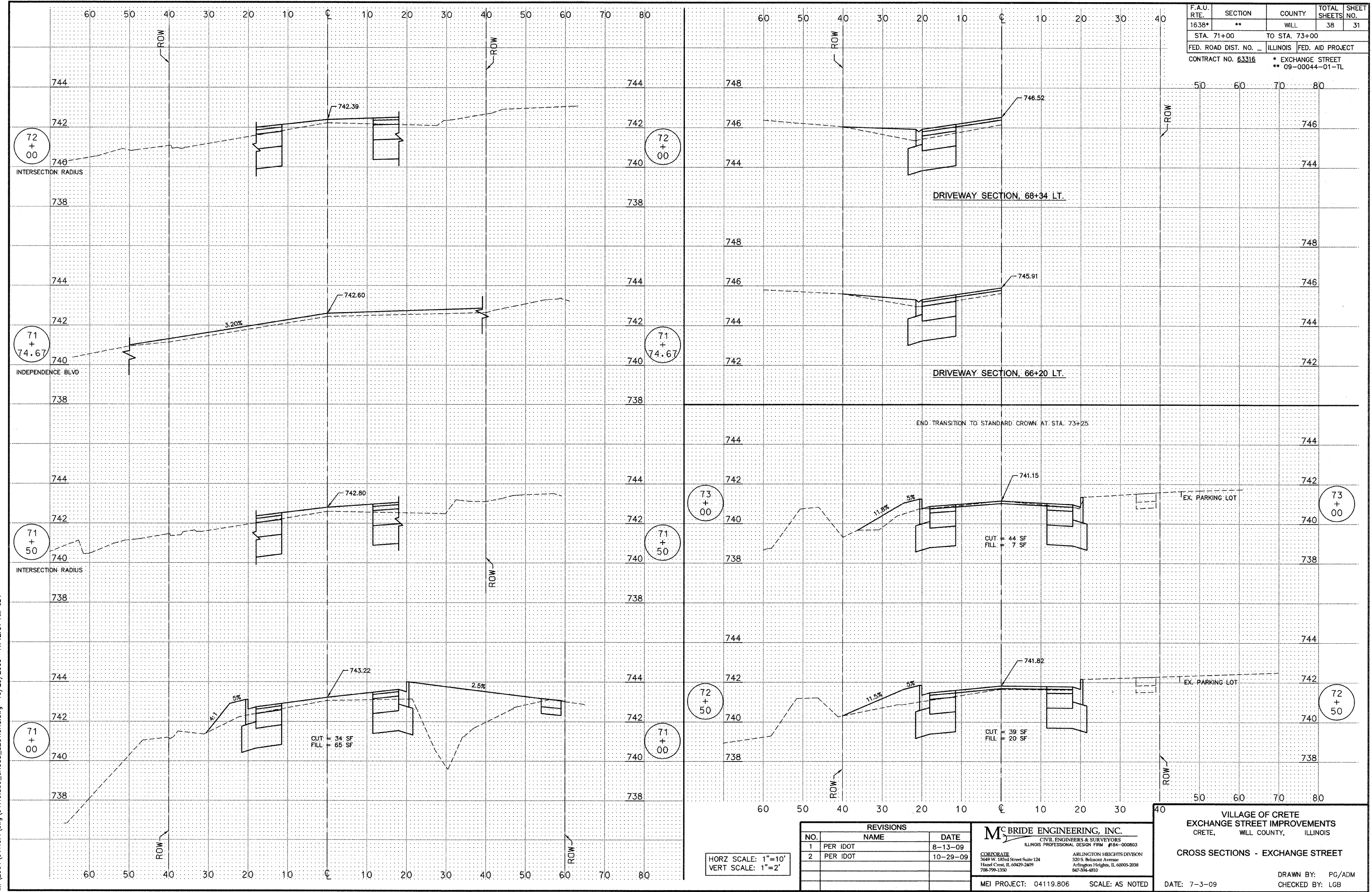
VILLAGE OF CRETE
 EXCHANGE STREET IMPROVEMENTS
 CRETE, WILL COUNTY, ILLINOIS

CROSS SECTIONS - EXCHANGE STREET

DATE: 7-3-09

DRAWN BY: PG/ADM
 CHECKED BY: LGB

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	31
STA. 71+00		TO STA. 73+00		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		



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HORZ SCALE: 1"=10'
VERT SCALE: 1"=2'

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

MCBRIDE ENGINEERING, INC.
 CIVIL ENGINEERS & SURVEYORS
 ILLINOIS PROFESSIONAL DESIGN FIRM #164-000803

CORPORATE
 3640 W. 138th Street Suite 124
 Hazel Crest, IL 60429-2409
 708-799-1330

ARLINGTON HEIGHTS DIVISION
 320 S. Belmont Avenue
 Arlington Heights, IL 60005-2038
 847-394-4810

MEI PROJECT: 04119.806 SCALE: AS NOTED

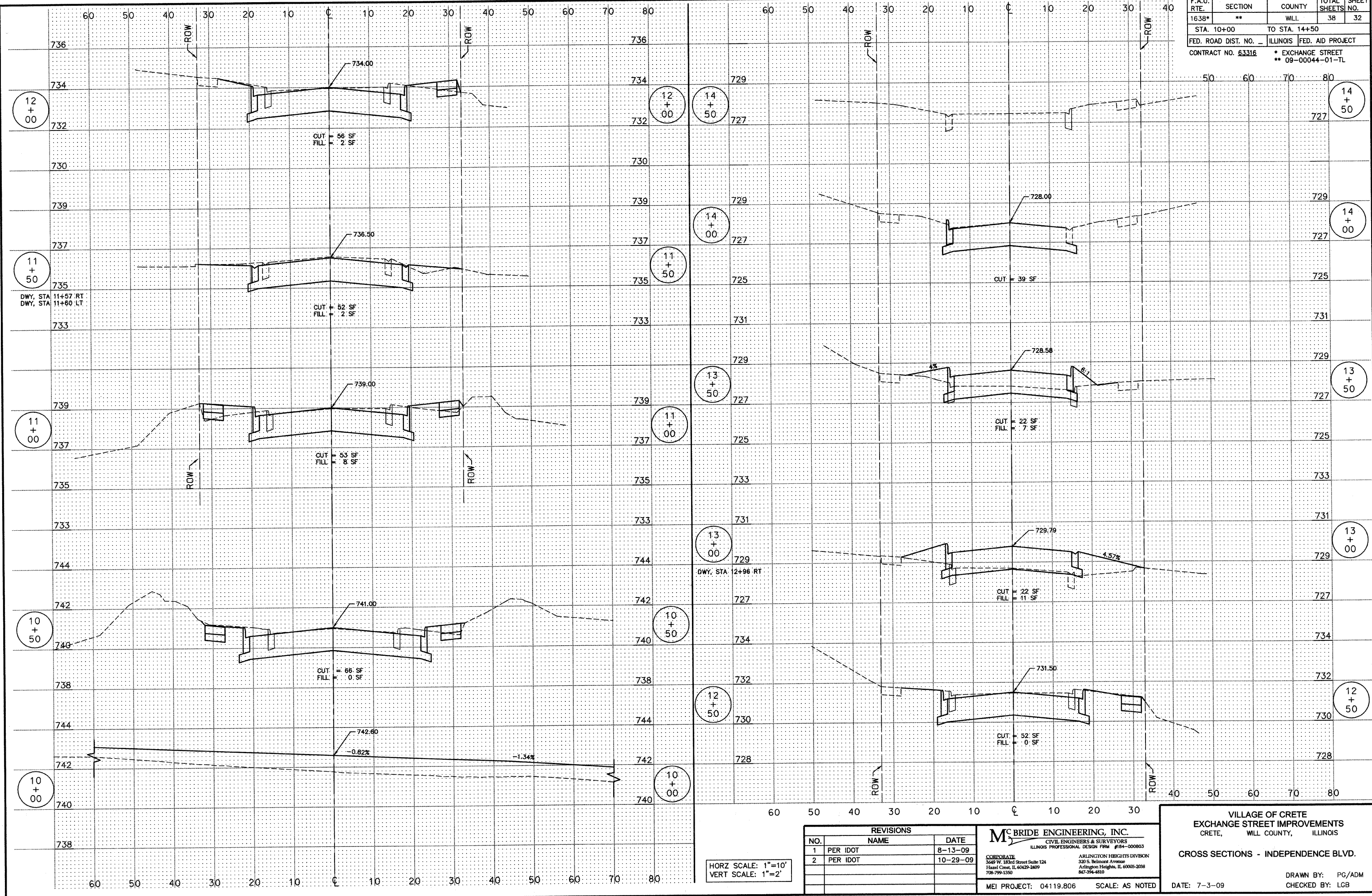
VILLAGE OF CRETE
 EXCHANGE STREET IMPROVEMENTS
 CRETE, WILL COUNTY, ILLINOIS

CROSS SECTIONS - EXCHANGE STREET

DATE: 7-3-09

DRAWN BY: PG/ADM
 CHECKED BY: LGB

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
1638*	**	WILL	38	32
STA. 10+00		TO STA. 14+50		
FED. ROAD DIST. NO. -		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-0044-01-TL		



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HORZ SCALE: 1"=10'
VERT SCALE: 1"=2'

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

McBRIDE ENGINEERING, INC.
 CIVIL ENGINEERS & SURVEYORS
 ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803

CORPORATE:
 3649 W. 183rd Street Suite 124
 Hazel Crest, IL 60429-2409
 708-799-1350

ARLINGTON HEIGHTS DIVISION:
 320 S. Belmont Avenue
 Arlington Heights, IL 60005-2038
 847-394-4810

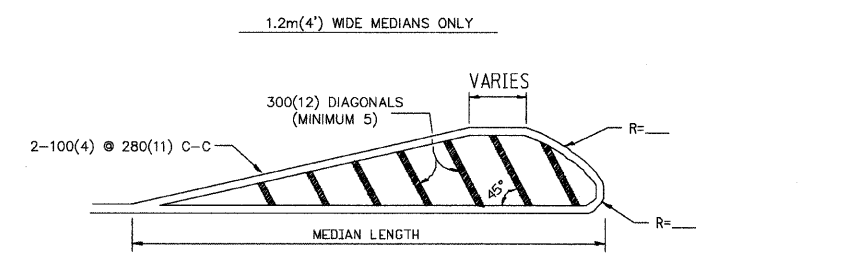
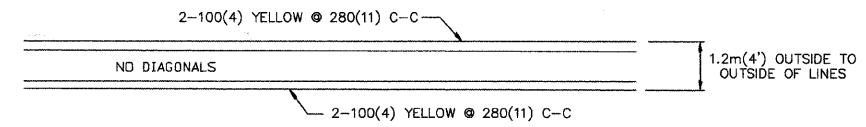
MEI PROJECT: 04119.806 SCALE: AS NOTED

VILLAGE OF CRETE
 EXCHANGE STREET IMPROVEMENTS
 CRETE, WILL COUNTY, ILLINOIS

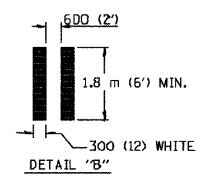
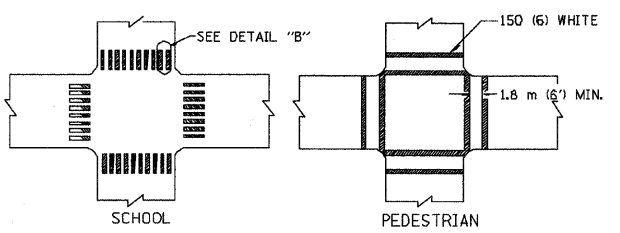
CROSS SECTIONS - INDEPENDENCE BLVD.

DATE: 7-3-09

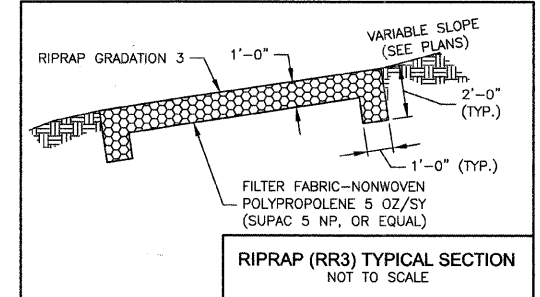
DRAWN BY: PG/ADM
 CHECKED BY: LGB



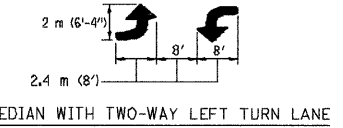
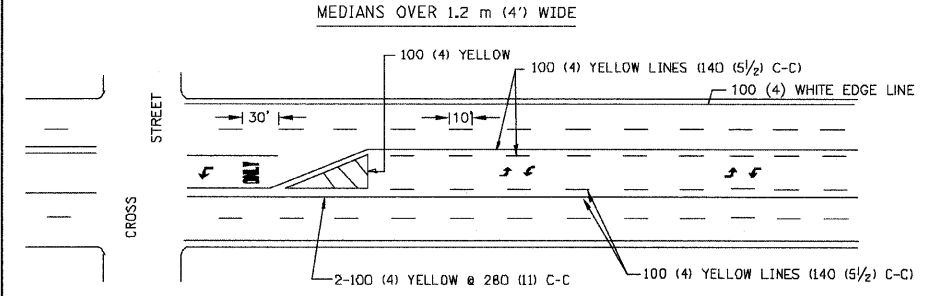
DIAGONAL LINE SPACING: 15 m (50') C-C (LESS THAN 50 km/h (30 MPH))
 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH))
 45 m (150') C-C (MORE THAN 70 km/h (45 MPH))



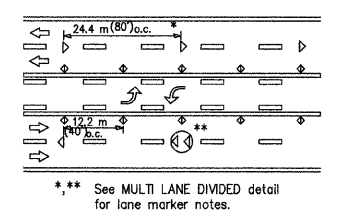
TYPICAL CROSSWALK MARKING



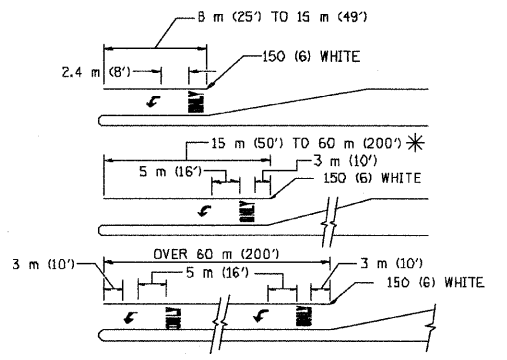
TEMPORARY SEEDING SPECIES, RATES AND DATES			
SPECIES	Lbs per Lbs/AC	1000 sq. ft.	SEEDING DATES
DATS	90 Lbs.	2 Lbs.	EARLY SPRING - JULY 1
CEREAL RYE	90 Lbs.	2 Lbs.	EARLY SPRING - SEPT. 30
WHEAT	90 Lbs.	2 Lbs.	EARLY SPRING - SEPT. 30
PERENNIAL RYEGRASS	25 Lbs.	6 Lbs.	EARLY SPRING - SEPT. 30



TYPICAL PAINTED MEDIAN MARKING



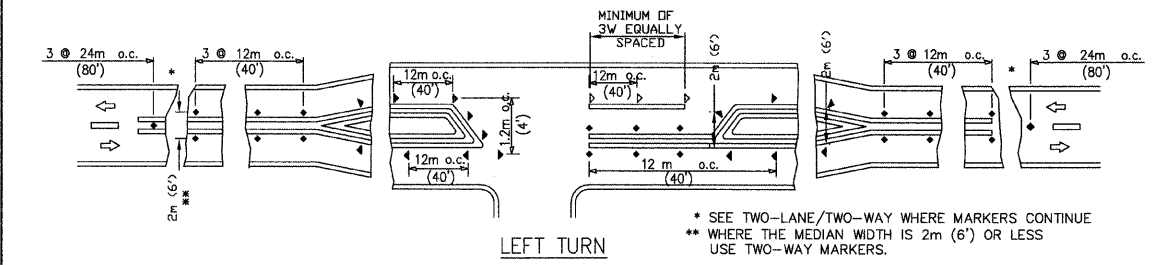
TWO-WAY LEFT TURN



* TURN LANES IN EXCESS OF 120 m (400') 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

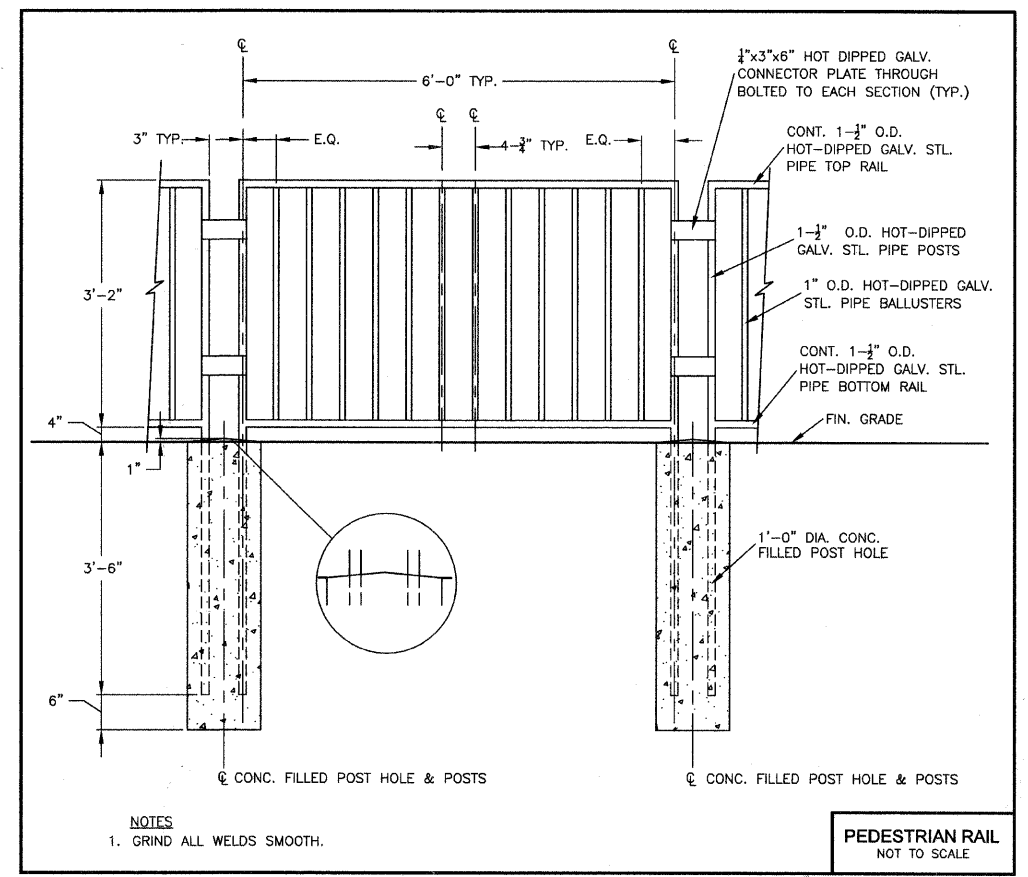
TYPICAL TURN LANE MARKING



LEFT TURN

- SYMBOLS
- Yellow stripe
 - White stripe
 - One-way amber marker
 - One-way crystal marker
 - Two-way amber marker

DISTRICT ONE
 TYPICAL PAVEMENT MARKINGS
 NOT TO SCALE



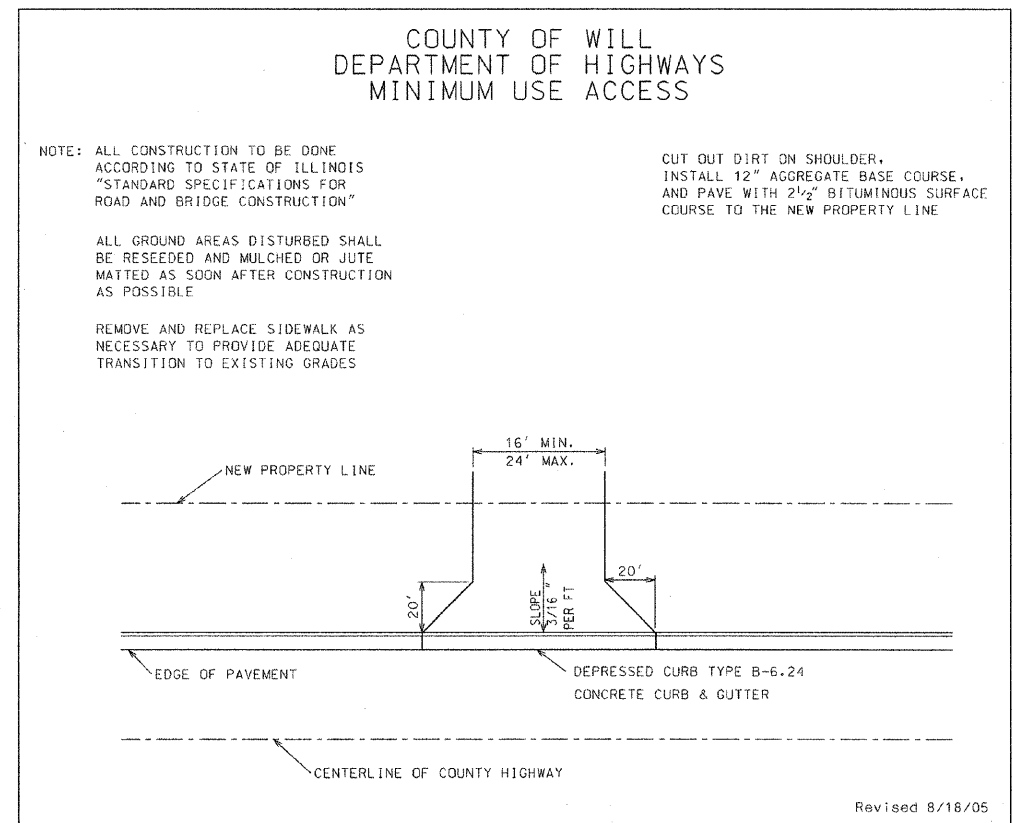
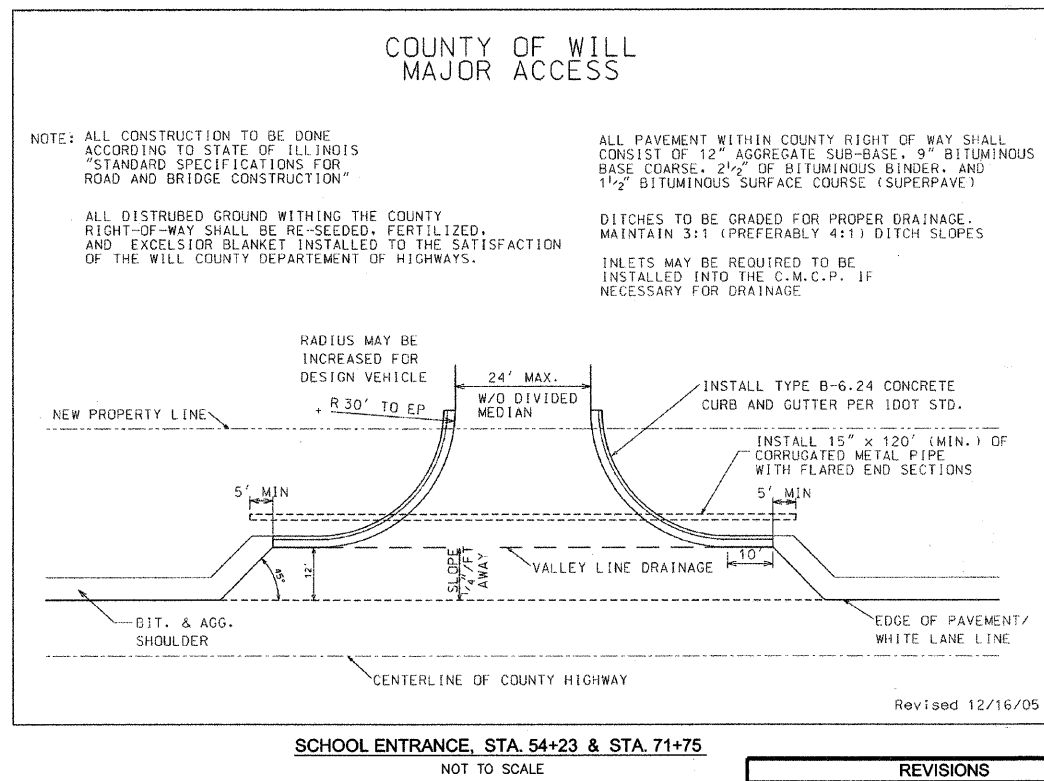
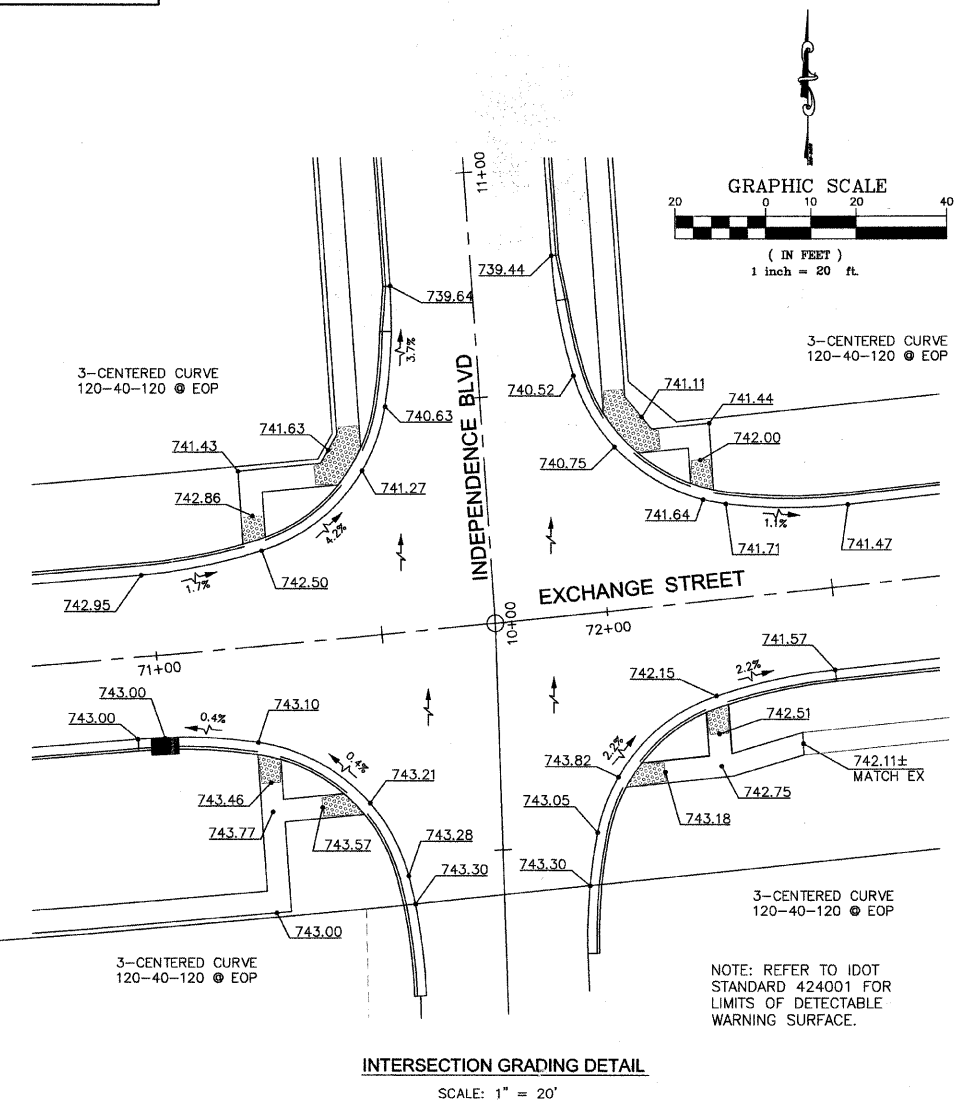
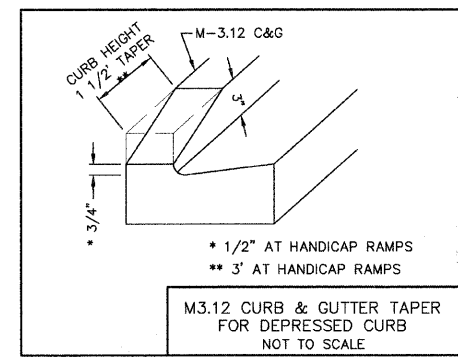
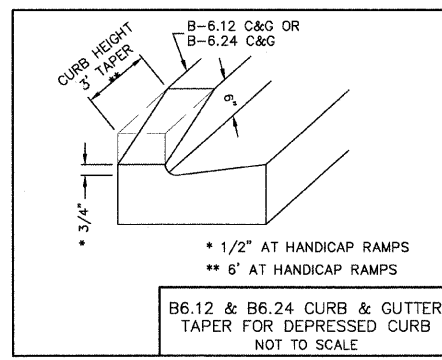
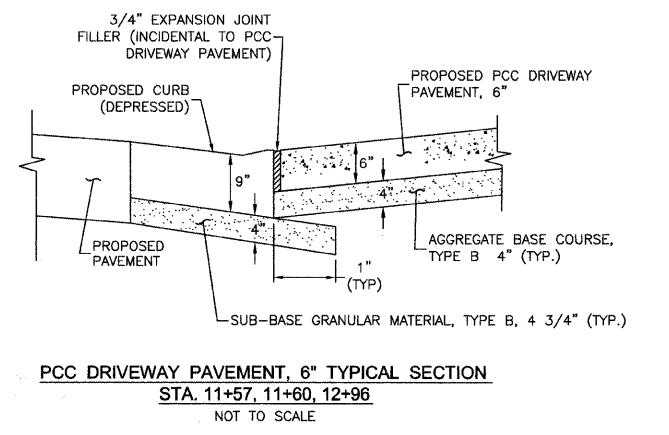
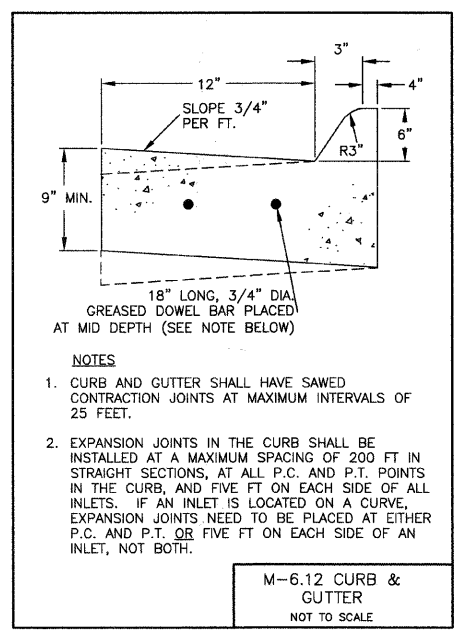
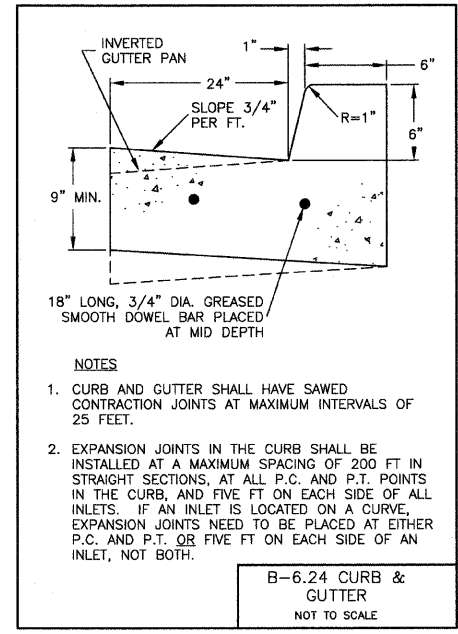
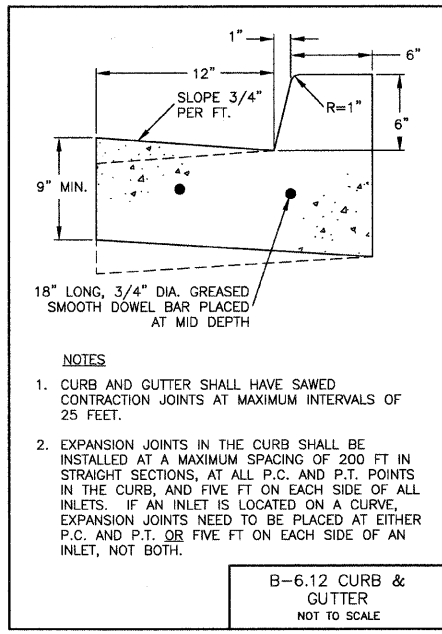
PEDESTRIAN RAIL
 NOT TO SCALE

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

M^C BRIDE ENGINEERING, INC.
 CIVIL ENGINEERS & SURVEYORS
 ILLINOIS PROFESSIONAL DESIGN FIRM #194-000803
 COBOROATE
 3648 W. 183rd Street Suite 124
 Hazel Crest, IL 60429-2409
 708-799-1350
 ARLINGTON HEIGHTS DIVISION
 320 S. Belmont Avenue
 Arlington Heights, IL 60005-2038
 847-394-4810
 MEI PROJECT: 04119.806 SCALE: NONE

VILLAGE OF CRETE
 EXCHANGE STREET IMPROVEMENTS
 CRETE, WILL COUNTY, ILLINOIS
 CONSTRUCTION DETAILS
 DATE: 7-3-09
 DRAWN BY: PG/ADM
 CHECKED BY: LGB

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	34
STA.		TO STA.		
FED. ROAD DIST. NO. -		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		



REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

MC BRIDE ENGINEERING, INC.
CIVIL ENGINEERS & SURVEYORS
ILLINOIS PROFESSIONAL DESIGN FIRM #04-000803
3649 W. IRVING STREET SUITE 124
ARLINGTON HEIGHTS DIVISION
ARLINGTON HEIGHTS, IL 60005-2038
708-799-1350 847-394-4810

MEI PROJECT: 04119.806 SCALE: NONE

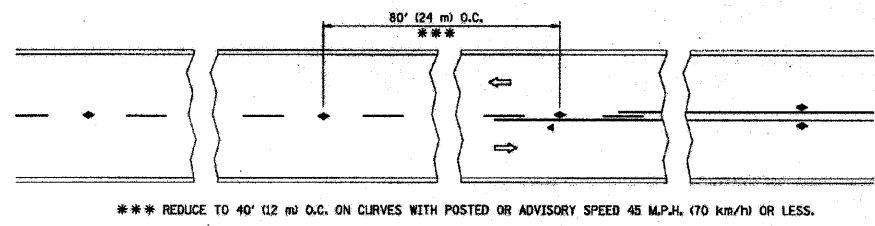
VILLAGE OF CRETE
EXCHANGE STREET IMPROVEMENTS
CRETE, WILL COUNTY, ILLINOIS

CONSTRUCTION DETAILS,
ENTRANCES & GRADING DETAIL

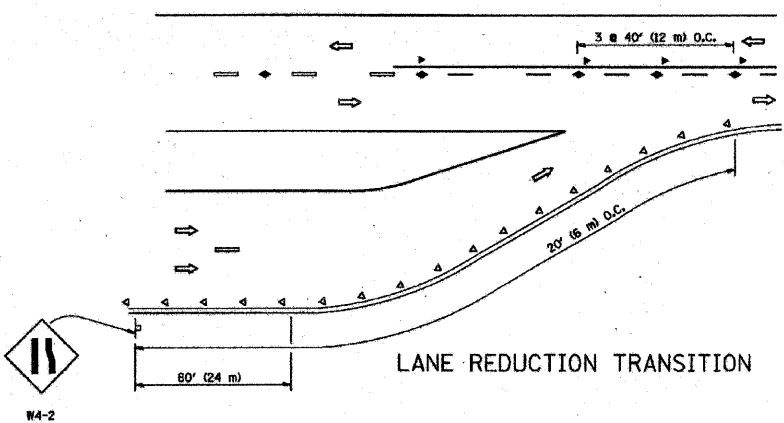
DATE: 7-3-09
DRAWN BY: PG/ADM
CHECKED BY: LGB

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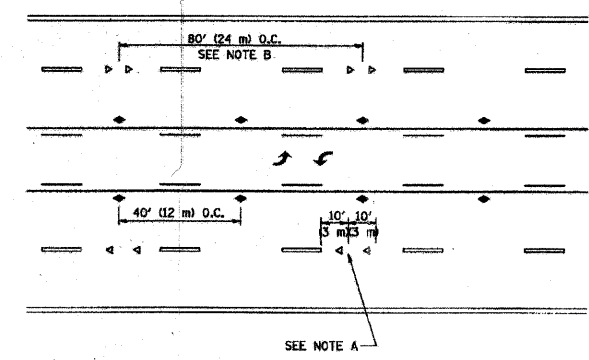
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	35
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		



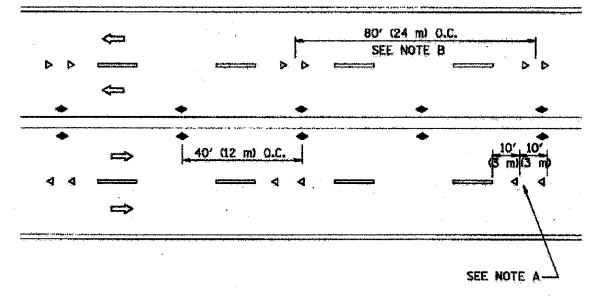
TWO-LANE/TWO-WAY



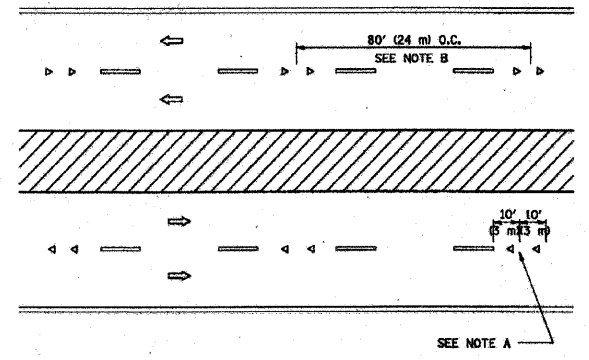
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

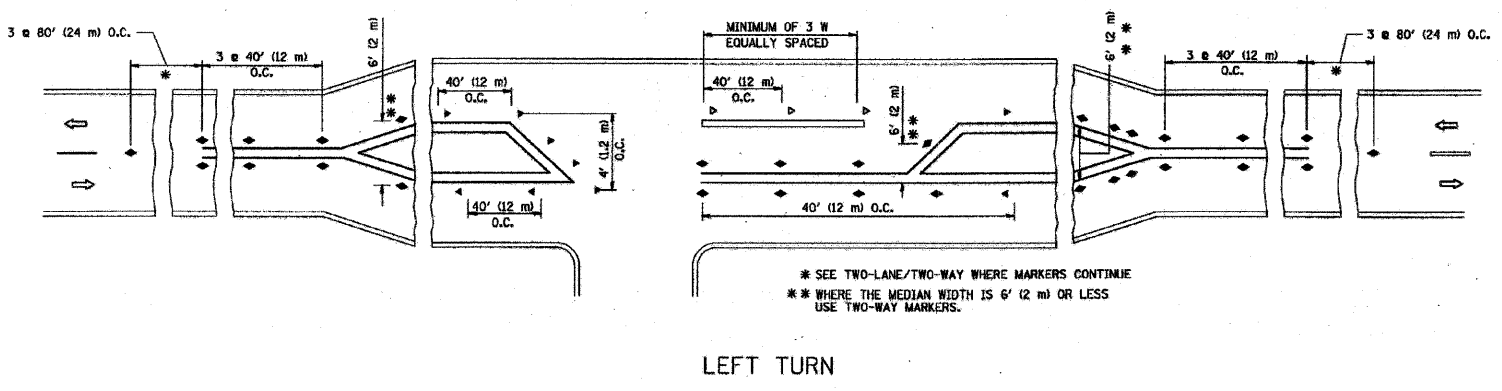
- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

LANE MARKER NOTES

- USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- 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

- DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
- 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

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

FILE NAME =	USER NAME = drvakosgn	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
c:\pwwork\spasid\drvakosgn\0180315\to	Ldgn	DRAWN -	REVISED - T. RAMMACHER 03-12-99
	PLOT SCALE = 60:200 / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 9/9/2009	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-FLW RESISTANT)						
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		CONTRACT NO.	
			TC-11		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

MC BRIDE ENGINEERING, INC.
CIVIL ENGINEERS & SURVEYORS
ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803

3649 W. 183rd Street Suite 124
Hazel Crest, IL 60429-3409
708-799-1350

ARLINGTON HEIGHTS DIVISION
320 S. Belmont Avenue
Arlington Heights, IL 60005-2038
847-394-4810

MEI PROJECT: 04119.806 SCALE: NONE

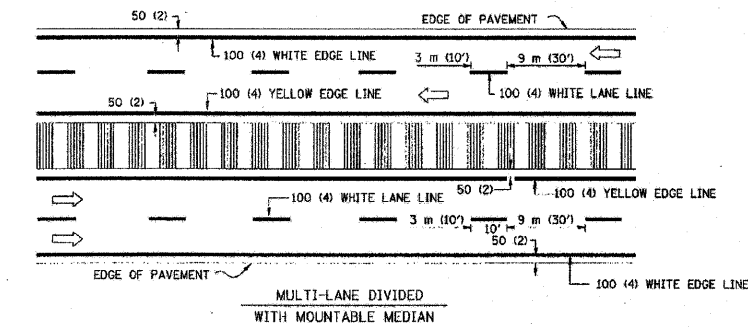
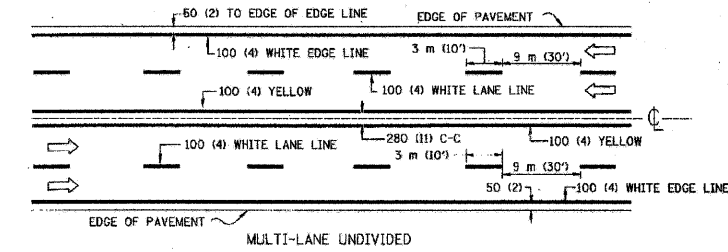
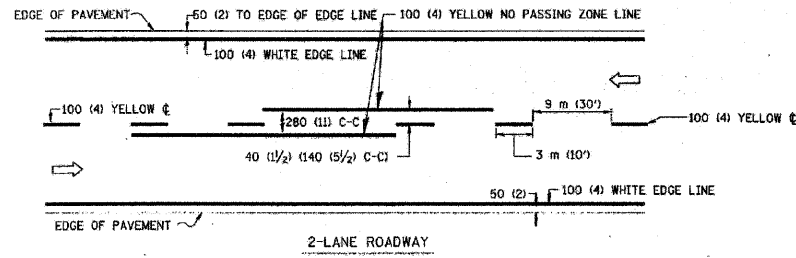
VILLAGE OF CRETE
EXCHANGE STREET IMPROVEMENTS
CRETE, WILL COUNTY, ILLINOIS

CONSTRUCTION DETAILS

DRAWN BY: PG/ADM
CHECKED BY: LGB

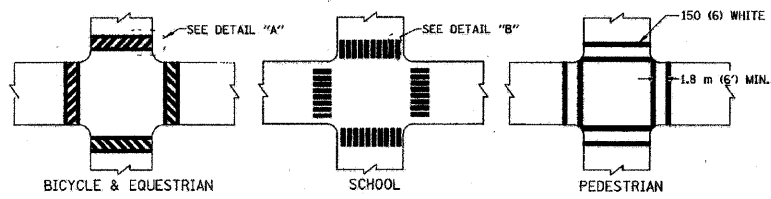
DATE: 7-3-09

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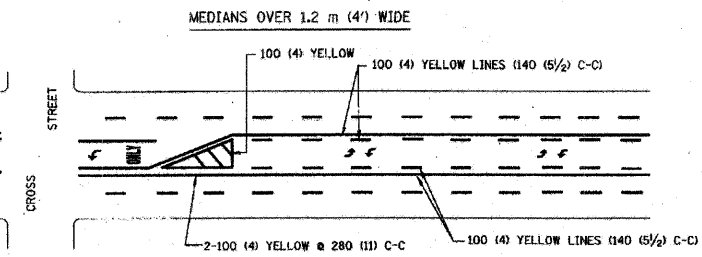
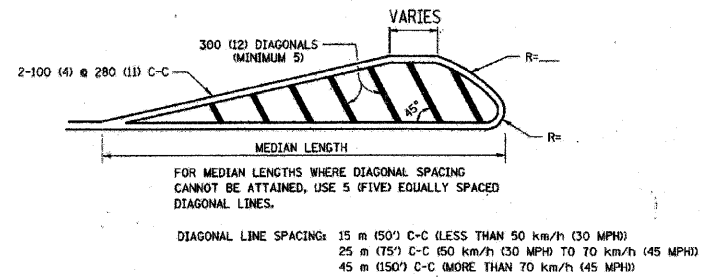
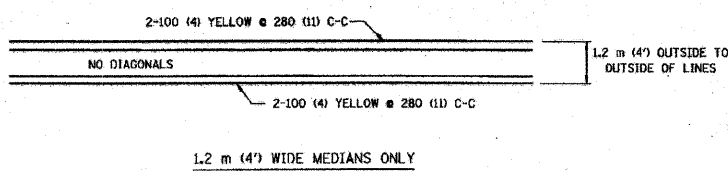
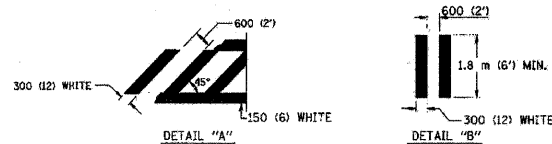


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

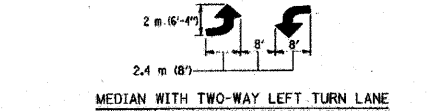
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

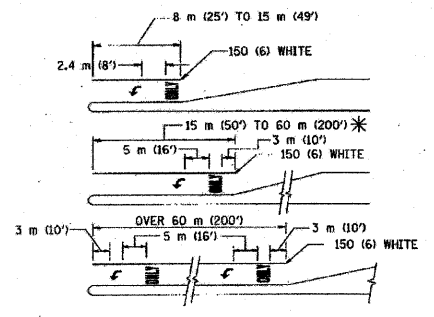


TYPICAL PAINTED MEDIAN MARKING



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL LEFT (OR RIGHT) TURN LANE

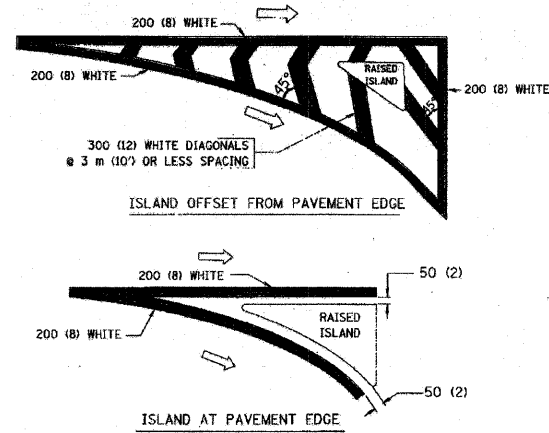


FULL SIZE LETTERS 2.4 m (8') AND ARROWS SHALL BE USED. AREA = 1.5 m² (15.6 SQ. FT.) AREA = 1.9 m² (20.8 SQ. FT.)

* TURN LANES IN EXCESS OF 120 m (400') 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	100 (4)	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4) 2 @ 100 (4)	SOLID SOLID	YELLOW YELLOW	140 (5/2) C-C FROM SKIP-DASH CENTERLINE 280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10') LINE WITH 9 m (30') SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (2') LINE WITH 1.8 m (6') SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW. EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 100 (4) EACH DIRECTION 2.4 m (8') LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	3 m (10') LINE WITH 9 m (30') SPACE FOR SKIP-DASH. 140 (5/2) 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 @ 150 (6) 300 (12) @ 45° 300 (12) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART 600 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (4') IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS @ 45° NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 4.5 m (15') C-C (LESS THAN 50 km/h (30 MPH)) 6 m (20') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 9 m (30') C-C (OVER 70 km/h (45 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES; "RR" 15 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=0.33m ² (3.6 SQ. FT.) EACH "X"=5.0 m ² (54.0 SQ. FT.)
SHOULDER DIAGONALS	300 (12) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150') C-C (OVER 70 km/h (45 MPH))

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

REVISIONS		
NO.	NAME	DATE
1	EVERS	03-19-90
2	T. RAMMACHER	10-27-94
3	ALEX HOUSEH	10-09-96
4	ALEX HOUSEH	10-17-96
5	T. RAMMACHER	01-06-00

SCALE: NONE
DATE: 10/18/2002
DRAWN BY: CADD
CHECKED BY: TC-13
REVISION DATE: 01/06/00

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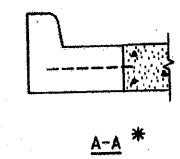
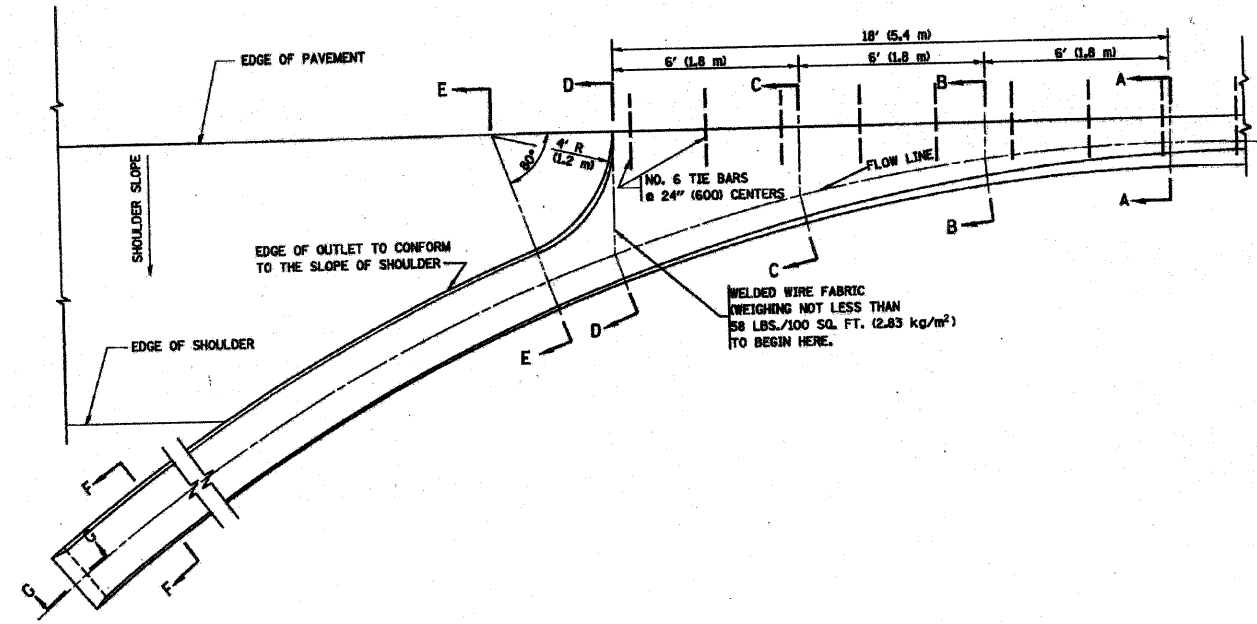
DATE-TIME
DOW-SPEC
V-TGJS

REVISIONS		
NO.	NAME	DATE
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2	PER IDOT	10-29-09

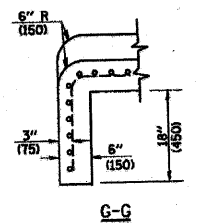
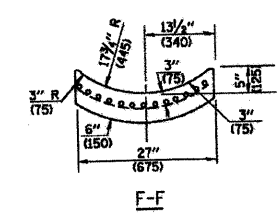
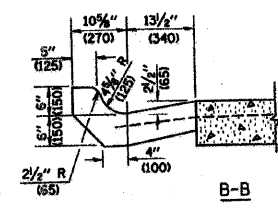
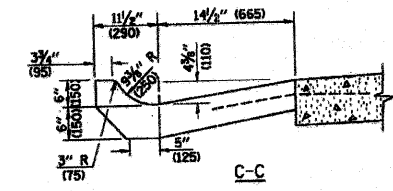
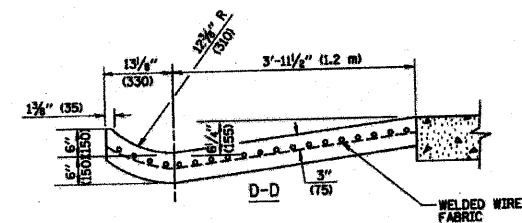
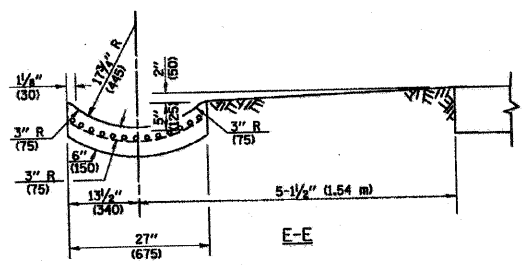
M^C BRIDE ENGINEERING, INC.
CIVIL ENGINEERS & SURVEYORS
ILLINOIS PROFESSIONAL DESIGN FIRM #194-000803
CORPORATE: 3649 W. 183rd Street Suite 124
Hanzen Crest, IL 60429-2409
708-799-1350
ARLINGTON HEIGHTS DIVISION: 320 S. Belmont Avenue
Arlington Heights, IL 60005-2038
847-394-4810
MEI PROJECT: 04119.806 SCALE: NONE

VILLAGE OF CRETE
EXCHANGE STREET IMPROVEMENTS
CRETE, WILL COUNTY, ILLINOIS
CONSTRUCTION DETAILS
DRAWN BY: PG/ADM
CHECKED BY: LGB
DATE: 7-3-09

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	37
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 63316	* EXCHANGE STREET		** 09-00044-01-TL	



* DIMENSIONS OF THE CURB & GUTTER AT SECTION A-A ARE SHOWN ON STATE STANDARD 60600L FOR DETAILS OF OUTLET FOR CONCRETE CURB & GUTTER, TYPE B-6.24 (B-15.60) SEE STATE STANDARD 606006.



GENERAL NOTES

GUTTER OUTLET SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 42000L.

TIE BARS SHALL BE NO. 20 (NO.6) AT 24" (600) CENTERS UNLESS OTHERWISE SHOWN.

IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE FROM SECTION A-A TO D-D EXCEEDS 2%, THIS DISTANCE SHALL BE INCREASED 6' (1.8 m) FOR EACH 1% INCREASE IN GRADE.

QUANTITIES

FOR SECTION A-A TO E-E AND CURTAIN WALL =
 1.25 CU. YDS. (0.96 m³) CLASS SI CONCRETE (OUTLET) FOR 9" (225) PAV'T.
 1.27 CU. YDS. (0.96 m³) CLASS SI CONCRETE (OUTLET) FOR 10" (250) PAV'T.
 FOR SECTION F-F =
 0.045 CU. YDS. (0.03 m³) CLASS SI CONCRETE PER FT. (M).

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

FILE NAME = W:\data\22x34\bd83.dgn	USER NAME = gajlanobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 09-09-94
		DRAWN -	REVISED - R. SHAH 10-25-94
		CHECKED -	REVISED - E. GOMEZ 12-21-00
		DATE - 08-04-86	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.	
F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	BD80-01 (BD-03)				
CONTRACT NO.			FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT		

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
2	PER IDOT	10-29-09

McBRIDE ENGINEERING, INC.
 CIVIL ENGINEERS & SURVEYORS
 ILLINOIS PROFESSIONAL DESIGN FIRM #184-000803

CORPORATE: 3649 W. 183rd Street Suite 124
 Hazel Crest, IL 60429-2409
 708-799-1380

ARLINGTON HEIGHTS DIVISION: 320 S. Belmont Avenue
 Arlington Heights, IL 60005-2038
 847-394-4810

MEI PROJECT: 04119.806 SCALE: NONE

VILLAGE OF CRETE
 EXCHANGE STREET IMPROVEMENTS
 CRETE, WILL COUNTY, ILLINOIS

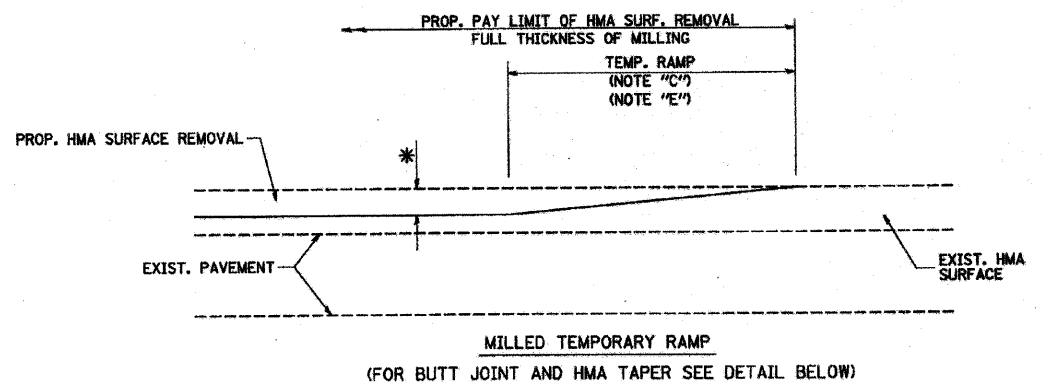
CONSTRUCTION DETAILS

DATE: 7-3-09

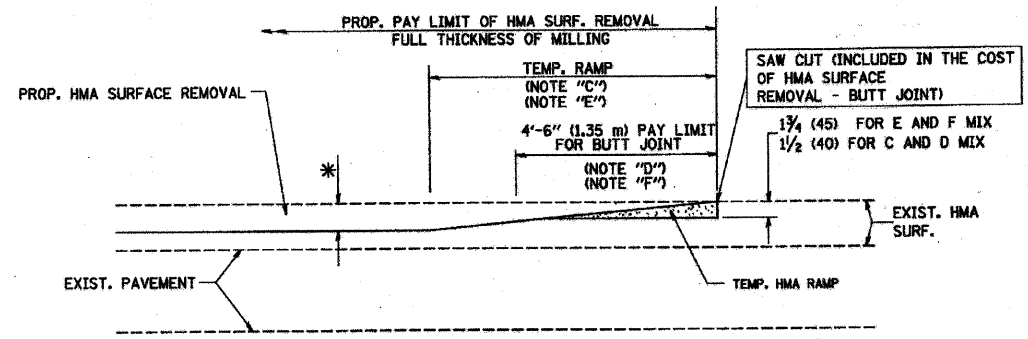
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1638*	**	WILL	38	38
STA.		TO STA.		
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63316		* EXCHANGE STREET ** 09-00044-01-TL		

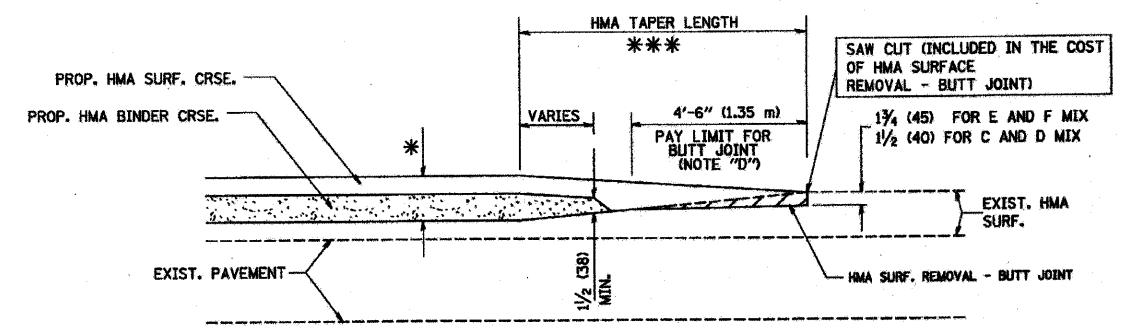


OPTION 1

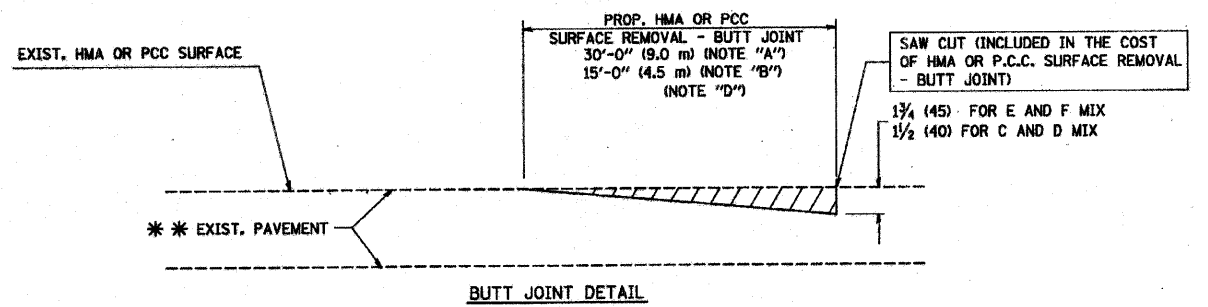


HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

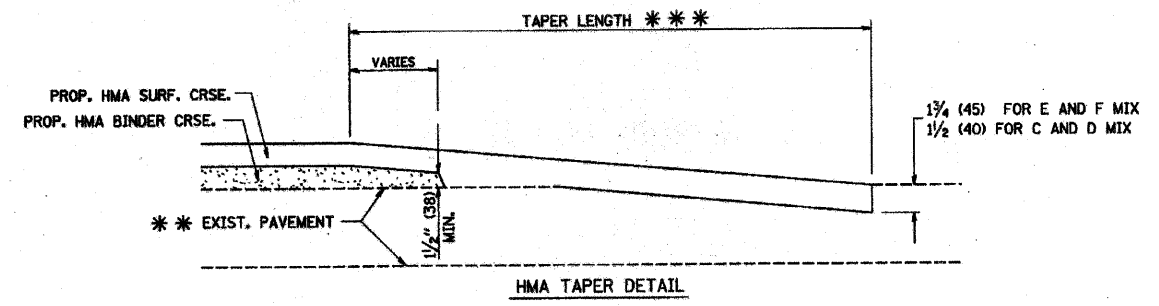
OPTION 2
TYPICAL TEMPORARY RAMP



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.

FILE NAME =	USER NAME = geglsmobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
W:\ashtel\22-04\bd32.dgn		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 58.8888' / DL	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2006	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BD400-05	BD32	CONTRACT NO.
		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

REVISIONS		
NO.	NAME	DATE
1	PER IDOT	8-13-09
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ARLINGTON HEIGHTS DIVISION
320 S. Belmont Avenue
Arlington Heights, IL 60005-2088
847-394-4810

MEI PROJECT: 04119.806 SCALE: NONE

VILLAGE OF CRETE
EXCHANGE STREET IMPROVEMENTS
CRETE, WILL COUNTY, ILLINOIS

CONSTRUCTION DETAILS

DRAWN BY: PG/ADM
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