

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
FEDERAL AID HIGHWAY
RAND AVENUE TRUCK PARKING LANE

F.A.U. ROUTE 8974 / RAND AVENUE
 SECTION 10-00030-00-WR
 FEDERAL PROJECT NO. M-5011(317)
 VILLAGE OF HARTFORD
 MADISON COUNTY
 JOB C-98-365-10

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	MADISON	9	1
FEDERAL AID PROJECT			
*10-00030-00-WR			
CONTRACT NO. 97471			

FOR UTILITY LOCATION PURPOSES, THIS PROJECT IS LOCATED IN SECTION 33, TOWNSHIP 5 NORTH, RANGE 9 WEST OF THE 3RD PRINCIPAL MERIDIAN.

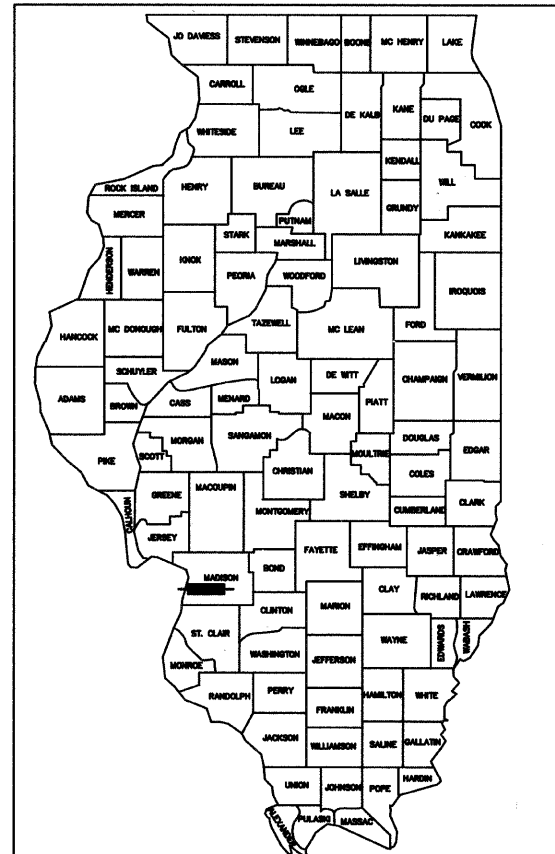
ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. (800) 892-0123 OR FOR NON-MEMBERS, UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

VILLAGE OF HARTFORD 140 W. HAWTHORNE HARTFORD, IL 62048 (618) 254-5211	AMEREN ILLINOIS 700 OAKWOOD AVENUE ALTON, IL 62002 (800) 325-7002
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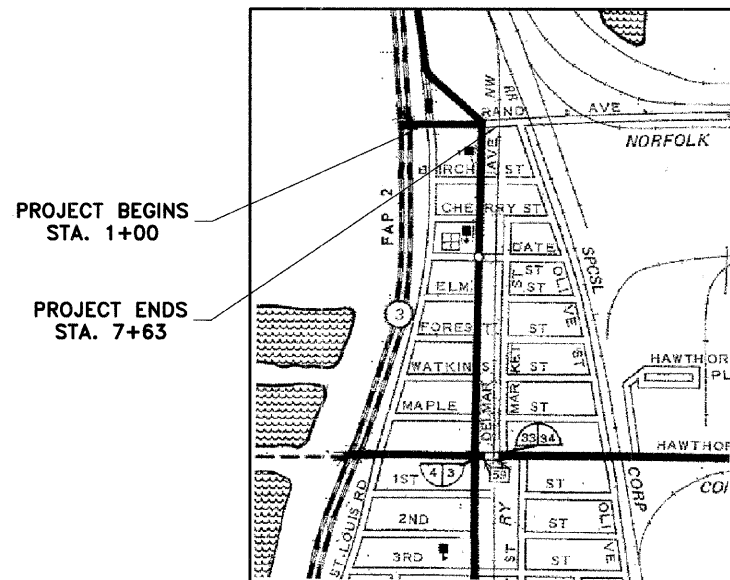
AT&T 203 GOETHE COLLINSVILLE, IL 62234 (618) 346-6400	CHARTER COMMUNICATIONS P.O. BOX 1020 210 WEST DIVISION STREET MARYVILLE, IL 62062 (618) 345-2205
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INDEX TO SHEETS

1. COVER SHEET, INDEX TO SHEETS
2. SUMMARY OF QUANTITIES, GENERAL NOTES, LEGEND & CONTROL POINTS, HIGHWAY STANDARDS
3. EXISTING TYPICAL SECTIONS
4. PROPOSED TYPICAL SECTIONS
5. PLAN AND PROFILE
- 6.-7. DETAILS OF CONSTRUCTION
- 8.-9. CROSS SECTIONS



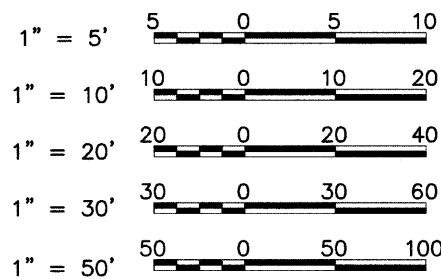
LOCATION OF SECTION INDICATED THUS:—



LOCATION MAP

NOT TO SCALE

SCALES



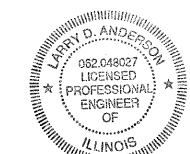
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS THE ABOVE SCALES MAY BE USED.

2010 ADT = 1,820
 7% TRUCKS
 FUNCTIONAL CLASSIFICATION: URBAN COLLECTOR

TOTAL NET LENGTH OF PROJECT = 663.00 FEET = 0.126 MILES

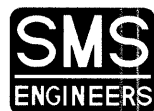
ILLINOIS DEPARTMENT OF TRANSPORTATION	
Approved	<u>6/3/2011</u> <i>James V. Spann</i> Village of Hartford, Mayor
Passed	<u>6/6/11</u> <i>[Signature]</i> District #8 Engineer of Local Roads & Streets
Releasing for Bid Based on Limited Review	<u>6/6/11</u> <i>[Signature]</i> Deputy Director of Highways, Region #5 Engineer

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



Larry D. Anderson

DATE SIGNED 6/02/11
 EXPIRATION DATE 11/30/11



Sheppard, Morgan & Schwaab, Inc.
 CONSULTING ENGINEERS AND LAND SURVEYORS

215 Market Street, P.O. Box E, Alton, IL 62002 618/462-9755 E-mail: mail@smseengineers.com
 10 Central Industrial Drive, Suite 3, Granite City, IL 62040 618/877-8700 E-mail: mail@smseengineers.com
 DESIGN FIRM # 184-000992

GENERAL NOTES

- THIS PROJECT SHALL BE CONSTRUCTED ACCORDING TO THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007 AND THE SPECIAL PROVISIONS OF THE PROJECT CONTRACT.
- EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM OFFICE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE.
- ALL ELEVATIONS REFER TO NATIONAL GEODETIC SURVEY (N.G.S.) DATUM.
- CONSTRUCTION ON OLD ST. LOUIS ROAD WILL BE DONE AT THE SAME TIME AS WORK ON THIS CONTRACT. THE CONTRACTOR SHALL SCHEDULE HIS/HER WORK ACCORDING TO ARTICLE 105.03.
- PROPOSED ELEVATIONS SHOWN ON THE PLANS AS ± ARE APPROXIMATE. EXACT ELEVATIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. IF APPLICABLE, ELEVATIONS SHALL BE DETERMINED PRIOR TO FABRICATION OF THE DRAINAGE STRUCTURES.
- FOR SIMPLICITY, STORM SEWER LENGTHS SHOWN ON THE PLANS ARE FROM CENTER TO CENTER OF STRUCTURES. ACTUAL PIPE REQUIRED WILL BE LESS. MEASUREMENT FOR PAYMENT PURPOSES SHALL BE ACCORDING TO ARTICLE 550.09 OF THE STANDARD SPECIFICATIONS.
- PLAN QUANTITIES FOR HOT-MIX ASPHALT ITEMS WERE CALCULATED BASED ON USING 112 LBS. / SQ. YD. / IN.
- PLAN QUANTITIES FOR BITUMINOUS MATERIALS (PRIME COAT) WERE BASED ON USING 0.10 GAL. / SQ. YD. FOR CONCRETE, H.M.A. AND OIL & CHIP SURFACES. SIDE STREETS WITH AGGREGATE BASES SHALL BE PRIMED USING 0.25 GAL./SQ. YD.
- PLAN QUANTITIES FOR AGGREGATE (PRIME COAT) WERE BASED ON USING 3 LBS. / SQ. YD. FOR CONCRETE, H.M.A. AND OIL & CHIP. SIDE STREETS WITH AGGREGATE BASES SHALL BE PRIMED AT 5 LBS./SQ. YD.
- IF ASH TREES ARE REMOVED ON THE PROJECT, THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH MEASURES SPECIFIED BY THE ILLINOIS DEPARTMENT OF AGRICULTURE (IDOA) TO PREVENT THE SPREAD OF THE EMERALD ASH BORER. THE IDOA INFORMATION FOR ASH TREE REMOVAL CAN BE FOUND ON THE IDOA WEBSITE AT WWW.AGR.STATE.IL.US/EAB.
- THE C/L SHOWN ON THE PLANS FOR RAND AVENUE WAS BASED ON SPLITTING THE EXISTING PAVEMENT FROM FACE OF CURB TO FACE OF CURB.
- ALL PROPOSED STORM SEWERS SHALL BE REINFORCED CONCRETE CULVERT PIPE.

SUMMARY OF QUANTITIES

CODE NO.	CONSTRUCTION TYPE CODE	ITEM	ROADWAY	
			80% FED/20% LOCAL	TOTAL QUANTITY
UNIT	UNIT	UNIT	000	000
20100110		TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	10
20200100		EARTH EXCAVATION	CU YD	309
20800150		TRENCH BACKFILL	CU YD	20
25000115		SEEDING, CLASS 1B	ACRE	0.1
25000350		SEEDING, CLASS 7	ACRE	0.1
25000400		NITROGEN FERTILIZER NUTRIENT	POUND	9
25000500		PHOSPHORUS FERTILIZER NUTRIENT	POUND	9
25000600		POTASSIUM FERTILIZER NUTRIENT	POUND	9
25000700		AGRICULTURAL GROUND LIMESTONE	TON	0.2
25100105		MULCH, METHOD 1	ACRE	0.1
25100115		MULCH, METHOD 2	ACRE	0.1
28000250		TEMPORARY EROSION CONTROL SEEDING	POUND	10
28000400		PERMETER EROSION BARRIER	FOOT	113
28000500		INLET AND PIPE PROTECTION	EACH	2
35100700		AGGREGATE BASE COURSE, TYPE A 8"	SQ YD	575
35800200		AGGREGATE BASE REPAIR	TON	20
40600100		BITUMINOUS MATERIALS (PRIME COAT)	GALLON	298
40600300		AGGREGATE (PRIME COAT)	TON	4.5
40600400		MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	1
40600635		LEVELING BINDER (MACHINE METHOD), N70	TON	27
40600985		PORTLAND CEMENT CONCRETE SURFACE REMOVAL-BUTT JOINT	SQ YD	66
40600990		TEMPORARY RAMP	SQ YD	95
40603315		HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	333
42300400		PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	31
42400100		PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	746
42400800		DETECTABLE WARNINGS	SQ FT	74
44000100		PAVEMENT REMOVAL	SQ YD	88
44000157		HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	941
44000200		DRIVEWAY PAVEMENT REMOVAL	SQ YD	47
44000400		GUTTER REMOVAL	FOOT	359
44000500		COMBINATION CURB AND GUTTER REMOVAL	FOOT	497
44000600		SIDEWALK REMOVAL	SQ FT	631
44201325		CLASS C PATCHES, TYPE I, 8 INCH	SQ YD	13
44201329		CLASS C PATCHES, TYPE II, 8 INCH	SQ YD	18
44201335		CLASS C PATCHES, TYPE IV, 8 INCH	SQ YD	32
44201349		CLASS C PATCHES, TYPE I, 10 INCH	SQ YD	2
44201353		CLASS C PATCHES, TYPE II, 10 INCH	SQ YD	17
44300200		STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	340
48102100		AGGREGATE WEDGE SHOULDER, TYPE B	TON	4
550A0050		STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	136
60213400		MANHOLES, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1
60235700		INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	2
60237000		INLETS, TYPE A, TYPE 15 FRAME AND LID	EACH	2
60255500		MANHOLES TO BE ADJUSTED	EACH	2
60260100		INLETS TO BE ADJUSTED	EACH	1
60260400		INLETS TO BE ADJUSTED WITH NEW TYPE I FRAME, CLOSED LID	EACH	2
60266500		VALVE BOXES TO BE ADJUSTED	EACH	1
60500060		REMOVING INLETS	EACH	1
60603800		COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6, 12	FOOT	152
60604400		COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6, 18	FOOT	590
60604800		COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6, 18 (SPECIAL)	FOOT	25
67100100		MOBILIZATION	L SUM	1
70300100		SHORT-TERM PAVEMENT MARKING	FOOT	107
70300220		TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1,400
70300260		TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	132
70300280		TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	88
70301000		WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	18
72000100		SIGN PANEL-TYPE 1	SQ FT	34
72000200		SIGN PANEL-TYPE 2	SQ FT	21
72400710		RELOCATE SIGN PANEL - TYPE 1	SQ FT	5
72800100		TELESCOPING STEEL SIGN SUPPORT	FOOT	125
78000200		THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,400
78000600		THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	132
78000650		THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	95
LR420029		PORTLAND CEMENT CONCRETE PAVEMENT 8" (SPECIAL)	SQ YD	462
X4401198		HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1,412
X7010216		TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1

* SPECIALTY ITEM

GENERAL LEGEND

	CENTERLINE OF PROPOSED IMPROVEMENT		EXISTING INLET
	EXISTING RIGHT-OF-WAY LINE		EXISTING PIPE CULVERT
	PROPOSED RIGHT-OF-WAY LINE		EXISTING SANITARY SEWER
	TEMPORARY CONSTRUCTION EASEMENT		EXISTING STORM SEWER
	PROPERTY LINE		EXISTING WATER LINE
	SECTION LINE		EXISTING GAS LINE
	1/2 SECTION LINE		EXISTING TELEPHONE LINE
	IRON PIPE FOUND		EXISTING FIBER OPTIC CABLE
	IRON PIPE SET		EXISTING ELECTRIC CABLE
	MONUMENT FOUND		EXISTING PIPE LINE
	PROPOSED R.O.W. MONUMENT		SIDEWALK TO BE REMOVED
	FENCE		18" TREE
	EDGE OF EXISTING FEATURES		SOIL BORING LOCATION
	CONSTRUCTION LIMITS		PROPOSED DITCH
	EXISTING DITCH		PROPOSED MANHOLE
	UTILITY POLE		PROPOSED INLET
	UTILITY POLE W/ DOWN GUY		PROPOSED STORM SEWER
	LIGHT POLE		PROPOSED INLET / PIPE PROTECTION
	GAS METER		PROPOSED PERIMETER EROSION BARRIER
	WATER METER		EXISTING SPOT ELEVATION
	FIRE HYDRANT		PROPOSED SPOT ELEVATION
	WATER OR GAS VALVE		PROPOSED DEPRESSED CURB
	TELEPHONE PEDESTAL		PROPOSED DETECTABLE WARNING
	EXISTING SIGN		
	PROPOSED SIGN		
	MAIL BOX		
	EXISTING MANHOLE		
	CONTROL POINT		

COMMITMENTS

NONE

ABBREVIATIONS

- T.C. - TOP OF CURB
- E.P. - EDGE OF PAVEMENT
- F.L. - FLOW LINE
- F. & G. - FRAME AND GRATE
- O.L. - OPEN LID
- C.L. - CLOSED LID
- SSI - STORM SEWER TYPE 1
- T.B. - TRENCH BACKFILL
- C - EARTH EXCAVATION QUANTITY SHOWN ON CROSS SECTIONS
- F - EMBANKMENT QUANTITY SHOWN ON CROSS SECTIONS

HIGHWAY STANDARDS

280001-05	606001-04
420001-07	701201-04
424001-05	701301-04
442201-03	701501-06
602301-03	701901-01
602401-03	720001-01
602701-02	720006-02
604001-03	728001-01
604006-04	731001-01
604066-02	780001-02

MIX DESIGNS

MIXTURE USE	SURFACE
AC/PG	PG 64-22
RAP% (MAX.)	10%
DESIGN AIR VOIDS	4.0% NDES=70
MIX COMPOSITION	---
FRICTION AGG.	MIX C
MIXTURE USE	LEVELING BINDER
AC/PG	PG 64-22
RAP% (MAX.)	10%
DESIGN AIR VOIDS	4.0% NDES=70
MIX COMPOSITION	IL-4.75
FRICTION AGG.	MIX C

SURVEY CONTROL POINTS

CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP #5000	791,675.9850	2,316,975.1120	431.70	REBAR w/ SMS CAP
CP #5001	791,719.6920	2,316,335.9070	430.00	REBAR w/ SMS CAP

SITE BENCHMARK

B.M. #	NORTHING	EASTING	ELEVATION	DESCRIPTION
B.M. #3	791,672.4650	2,316,331.5580	431.35	COTTON SPINDLE IN POWER POLE

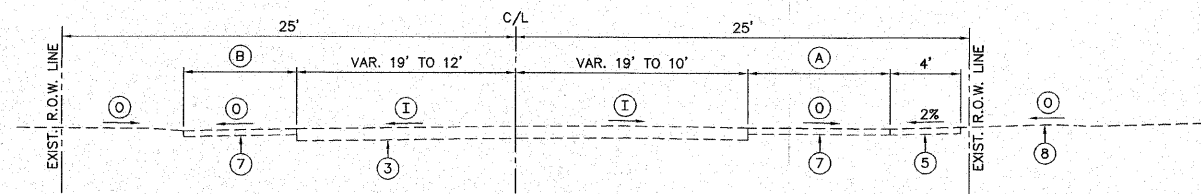
REVISIONS

SMS ENGINEERS
 Sheppard, Morgan & Schwaab, Inc.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 215 Market Street, P.O. Box E, Alton, IL 62002 618462-2755 E-mail: mail@smsengineers.com
 10 Central Industrial Drive, Granite City, IL 62040 61877-4700 E-mail: mail@smsengineers.com
 DESIGN FIRM # 184-000992

VILLAGE OF HARTFORD
 F.A.U. 8974 (RAND AVENUE)
 SECTION 10-00030-00-WR
 GENERAL NOTES, LEGEND & CONTROL POINTS

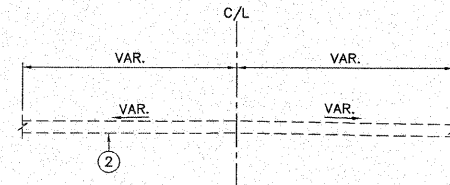
DWG. NO. 1147HARTFORD (447888.0)
 GENERAL NOTES, DWG
 REF. BK. 1500 PG. 21-22
 JOB NO. 447888
 DSN. BY: LDA
 DWN. BY: LDA
 CHK. BY: LDA
 DATE: JUNE, 2011

SCALE: NOT TO SCALE

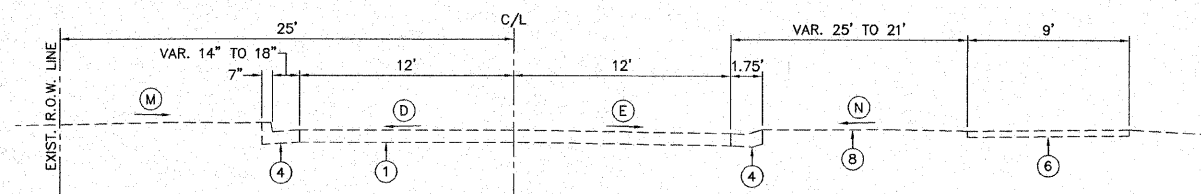


- (A) VARIES 10' TO 4'
- (B) VARIES 0' TO 10'
- (I) VARIES 1.50% TO 2.30%
- (O) VARIES 0.00% TO 4.00%

EXISTING TYPICAL SECTION
RAND AVENUE
STA. 6+91 TO STA. 7+63

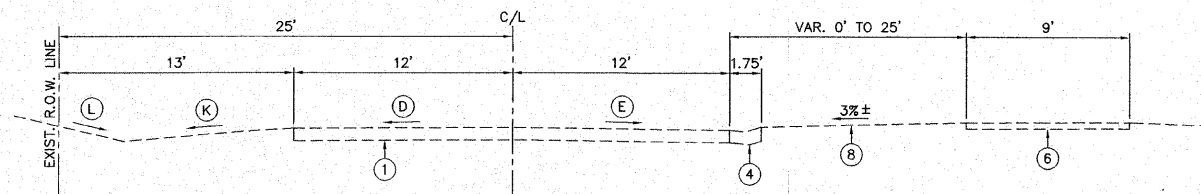


EXISTING TYPICAL SECTION
RAND AVENUE
STA. 6+15 TO STA. 6+91



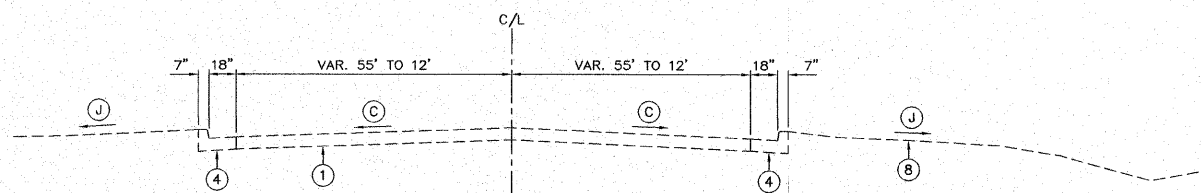
- (D) VARIES FROM 0.30% TO 0.50%
- (E) VARIES FROM 1.15% TO 1.30%
- (M) VARIES 0.00% TO 2.50%
- (N) VARIES 1.00% TO 3.00%

EXISTING TYPICAL SECTION
RAND AVENUE
STA. 4+40 TO STA. 6+15



- (D) VARIES FROM 0.30% TO 0.50%
- (E) VARIES FROM 1.15% TO 1.30%
- (K) VARIES 0.00% TO 10.00%
- (L) VARIES 10.00% TO 20.00%

EXISTING TYPICAL SECTION
RAND AVENUE
STA. 2+56 TO STA. 4+40



- (C) VARIES FROM 1.50% TO 4.50%
- (J) VARIES FROM 2.00% TO 25.00%

EXISTING TYPICAL SECTION
RAND AVENUE
STA. 1+00 TO STA. 2+56

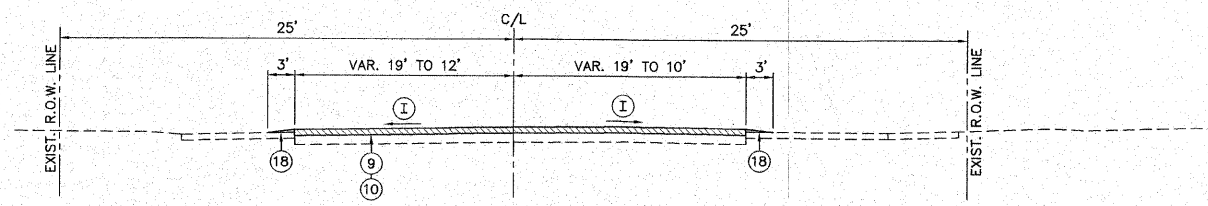
- (1) EXIST. H.M.A. RESURFACED PAVEMENT, 10"
- (2) EXIST. CONC. PAVEMENT, 8"
- (3) EXIST. OIL & CHIP SURF. ON AN AGG. BASE, VAR. DEPTH
- (4) EXIST. COMB. CONC. CURB AND GUTTER
- (5) EXIST. CONC. SIDEWALK, 4"
- (6) EXIST. H.M.A. BIKE/PEDESTRIAN TRAIL
- (7) EXIST. AGG. SHOULDER, VAR. DEPTH
- (8) EXIST. GROUNDLINE
- (9) PROP. H.M.A. SURF. REMOVAL, 2"
- (10) PROP. H.M.A. SURF. CSE., MIX "C", N70, 2"
- (11) PROP. GUTTER REMOVAL
- (12) PROP. P.C.C. PAVEMENT 8", SPECIAL
- (13) PROP. AGG. BASE CSE., TY. A 8"
- (14) PROP. COMB. CONC. CURB & GUTTER, TYPE B-6.18
- (15) PROP. CLASS C PATCHES, 8"
- (16) PROP. LEVEL. BIND. (M.M.), N70, VAR. DEPTH

REVISIONS

SMS ENGINEERS
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215 Market Street, P.O. Box E, Allen, IL 60002, 618462-9755 E-mail: mail@smsengineers.com
11 Central Industrial Drive, Suite 3, Genaia City, IL 62330 61877-9700 E-mail: mail@smsengineers.com
DESIGN FIRM # 184-000992

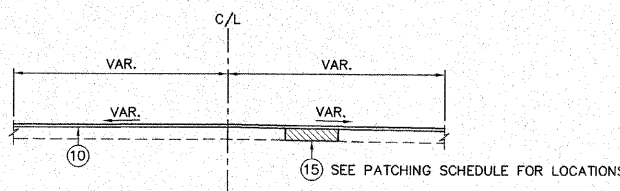
VILLAGE OF HARTFORD
F.A.U. 8974 (RAND AVENUE)
SECTION 10-00030-00-WR
EXISTING TYPICAL SECTIONS

DWG. NO.	LP\HARTFORD (447888.0)\
TYPICAL SECTIONS.DWG	
REF. BK.	1500 PG. 21-22
JOB NO.	447888
DSN. BY:	LDA
DWN. BY:	CAD
CHK. BY:	LDA
DATE:	JUNE, 2011
SCALE:	NOT TO SCALE
SHEET	3 OF 9

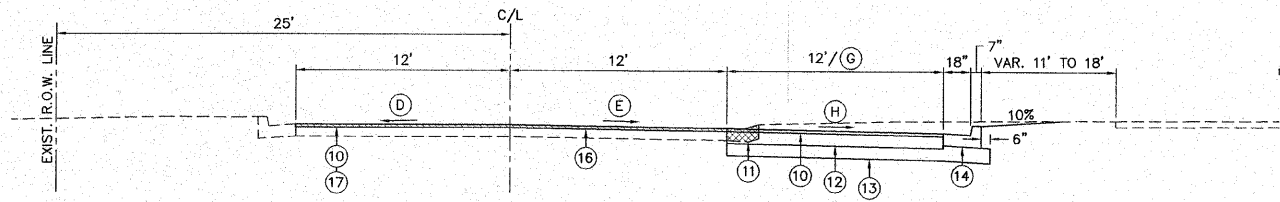


**PROPOSED TYPICAL SECTION
RAND AVENUE
STA. 6+91 TO STA. 7+63**

NOTE: INCREASE DEPTH OF H.M.A. SURF. C.S.E. TO MAINTAIN MAX. SLOPE OF 2.00%

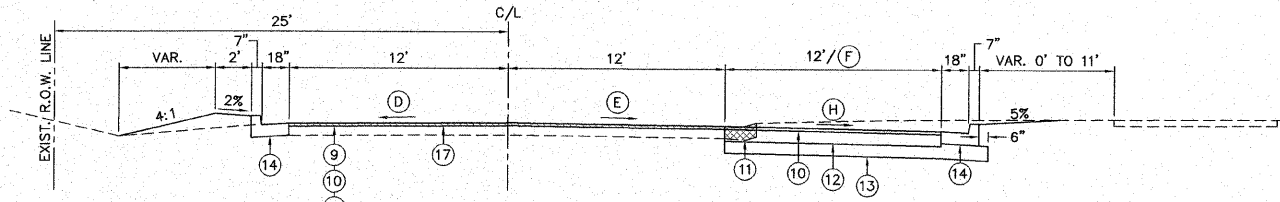


**PROPOSED TYPICAL SECTION
RAND AVENUE
STA. 6+15 TO STA. 6+91**



**PROPOSED TYPICAL SECTION
RAND AVENUE
STA. 4+40 TO STA. 6+15**

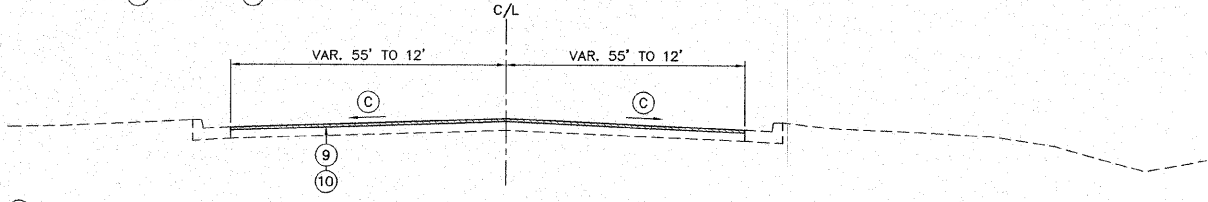
D VARIES FROM 1.50% TO 2.00%
E 2.00%
G WIDTH VARIES FROM 12' AT STA. 5+70 TO 0' AT STA. 6+15
CONSTRUCT 1' STUB AT STA. 6+05
H VARIES 2% TO 2.5%



**PROPOSED TYPICAL SECTION
RAND AVENUE
STA. 2+56 TO STA. 4+40**

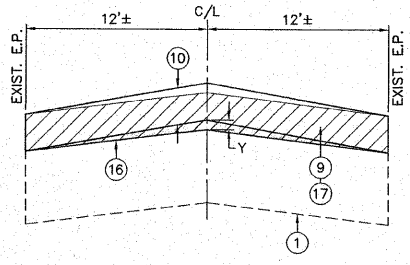
D VARIES FROM 1.5% TO 2.00%
E VARIES FROM 1.5% TO 2.00%
F WIDTH VARIES FROM 0' AT STA. 2+56 TO 12' AT STA. 3+02
CONSTRUCT 1' STUB AT STA. 2+65
H VARIES 2% TO 2.5%

NOTE: STA. 3+00 (9) ENDS AND (17) BEGINS



**PROPOSED TYPICAL SECTION
RAND AVENUE
STA. 1+00 TO STA. 2+56**

C VARIES FROM 1.50% TO 4.50%



LEVELING BINDER DEPTHS

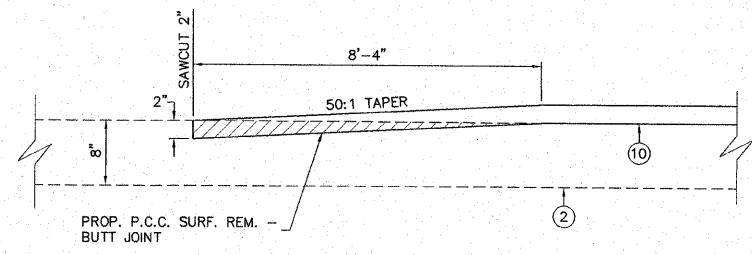
N.T.S.
TO BE USED: STA. 2+50 TO STA. 6+05

STA.	LT. E.P. (FT.)	C/L (FT.)	RT. E.P. (FT.)
2+50	0.00	0.00	0.00
2+75	0.00	0.00	0.00
3+00	0.00	0.00	0.00
3+25	0.00	0.00	0.00
3+50	0.00	0.02	0.00
3+75	0.00	0.05	0.00
4+00	0.00	0.04	0.00
4+25	0.00	0.04	0.06
4+50	0.00	0.03	0.12
4+75	0.00	0.06	0.06
5+00	0.00	0.08	0.00
5+25	0.00	0.05	0.00
5+50	0.00	0.03	0.00
5+75	0.00	0.00	0.00
6+00	0.00	0.00	0.00
6+05	0.00	0.00	0.00

H.M.A. SURF. REM., VAR. DEPTH
REMOVAL DEPTHS

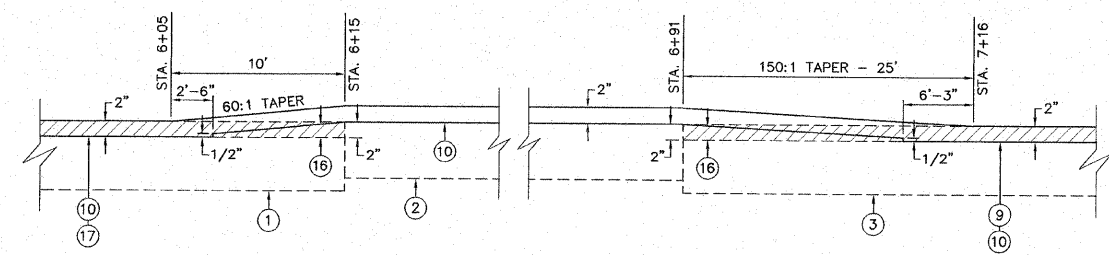
STA.	LT. (FT.)	C/L (FT.)	RT. (FT.)
2+50	0.17	0.17	0.17
2+75	0.27	0.17	0.26
3+00	0.18	0.17	0.20
3+25	0.17	0.04	0.13
3+50	0.14	0.00	0.09
3+75	0.04	0.00	0.02
4+00	0.04	0.00	0.00
4+25	0.02	0.00	0.00
4+50	0.09	0.00	0.00
4+75	0.04	0.00	0.00
5+00	0.10	0.00	0.00
5+25	0.17	0.00	0.00
5+50	0.17	0.00	0.05
5+75	0.12	0.04	0.00
6+00	0.17	0.11	0.14
6+05	0.17	0.11	0.14

- 1 EXIST. H.M.A. RESURFACED PAVEMENT, 10"
- 2 EXIST. CONC. PAVEMENT, 8"
- 3 EXIST. OIL & CHIP SURF. ON AN AGG. BASE, VAR. DEPTH
- 4 EXIST. COMB. CONC. CURB AND GUTTER
- 5 EXIST. CONC. SIDEWALK, 4"
- 6 EXIST. H.M.A. BIKE/PEDESTRIAN TRAIL
- 7 EXIST. AGG. SHOULDER, VAR. DEPTH
- 8 EXIST. GROUNDLINE
- 9 PROP. H.M.A. SURF. REMOVAL, 2"
- 10 PROP. H.M.A. SURF. C.S.E., MIX "C", N70, 2"
- 11 PROP. GUTTER REMOVAL
- 12 PROP. P.C.C. PAVEMENT 8", SPECIAL
- 13 PROP. AGG. BASE C.S.E., TY. A 8"
- 14 PROP. COMB. CONC. CURB & GUTTER, TYPE B-6.18
- 15 PROP. CLASS C PATCHES, 8"
- 16 PROP. LEVEL. BIND. (M.M.), N70, VAR. DEPTH
- 17 PROP. H.M.A. SURF. REMOVAL, VAR. DEPTH
- 18 PROP. AGG. WEDGE SHLD., TY. B



BUTT - JOINT DETAIL

N.T.S.
TO BE USED: NORTH DELMAR AVE.
SOUTH DELMAR AVE.



RESURFACING TRANSITION DETAIL

N.T.S.
TO BE USED: STA. 6+05 TO STA. 6+15 RAND AVENUE
STA. 6+91 TO STA. 7+16 RAND AVENUE

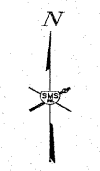
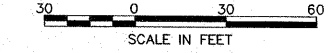
REVISIONS

SMS ENGINEERS
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210 Market Street, P.O. Box E, Albany, IL 62002, 618462-9755, E-mail: mail@smsengineers.com
10 Central Industrial Drive, Suite 3, Geneva, IL 60136, 61867-7400, E-mail: mail@smsengineers.com
DESIGN FIRM # 184-000992

VILLAGE OF HARTFORD
F.A.U. 8974 (RAND AVENUE)
SECTION 10-00030-00-WR
PROPOSED TYPICAL SECTIONS

DWG. NO. LP\HARTFORD\447888\0\TYPICAL SECTIONS.DWG
REF. BK. 1500 PG. 21-22
JOB NO. 447888
DSN. BY: LDA
DWN. BY: CAD
CHK. BY: LDA
DATE: JUNE, 2011

SCALE: NOT TO SCALE
SHEET 4 OF 9



DRAINAGE STRUCTURES

- ① 15.45' LT., STA. 3+30 INLETS, TY. A, TY. 15 F. & L. T.C. = 430.24 12" S.W. F.L. = 426.32
- ② 2.32' LT., STA. 3+00 MH, TY. A, 4" DIA., TY. 1 F., C.L. TOP OF IJD = 429.97 12" N.E. F.L. = 426.00 12" S.F.L. = 426.00 12" E.F.L. = 422.21 12" W.F.L. = 422.21
- ③ 25.04' RT., STA. 3+00 INLETS, TY. A, TY. 3 F. & G. T.C. = 429.87 12" N.F.L. = 426.27

STORM SEWERS

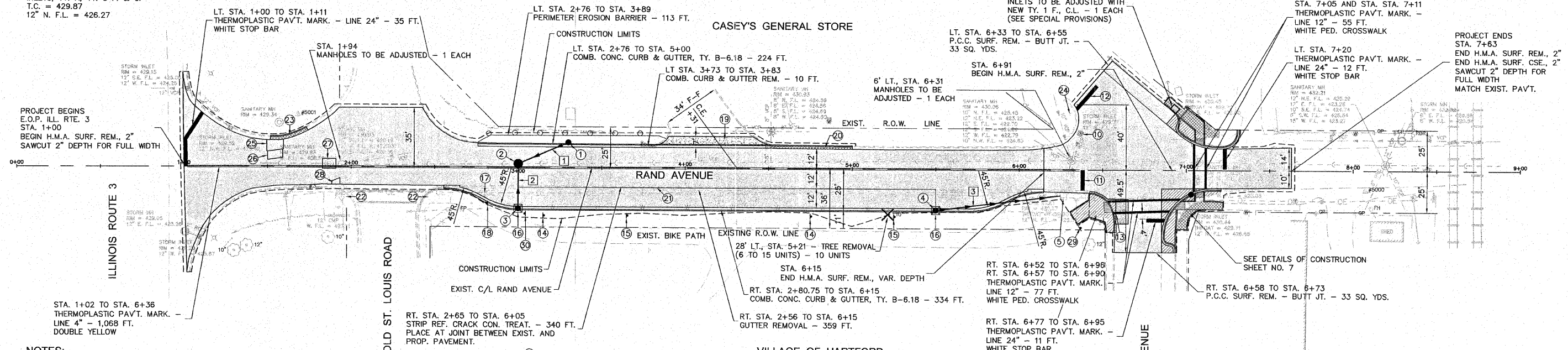
- ④ 25.04' RT., STA. 5+50 INLETS, TY. A, TY. 3 F. & G. T.C. = 430.14 12" E.F.L. = 426.94
- ⑤ 15.7' RT., STA. 6+26.5 EXIST. INLET 12" N.F.L. = 426.55 12" W.F.L. = 426.55 INLETS TO BE ADJUSTED WITH NEW TY. 1 F., C.L. - 1 EACH REMOVE EXIST. STEEL PLATE FROM TOP OF INLET

- ① ① TO ② S.S., CL. A, TY. 1 12" - 32 FT. ① 1.00% TRENCH BACK FILL 7.6 CU. YDS.
- ② ② TO ③ S.S., CL. A, TY. 1 12" - 27 FT. ① 1.00% TRENCH BACK FILL 4.9 CU. YDS.
- ③ ④ TO ⑤ S.S., CL. A, TY. 1 12" - 77 FT. ① 0.50% TRENCH BACK FILL 3.0 CU. YDS.

- ⑩ 22' LT., STA. 6+37 EXISTING GRATE INLET INLETS TO BE ADJUSTED - 1 EACH
- ⑪ STA. 6+37 THERMOPLASTIC PAVT. MARK. - LINE 24" - 12 FT. WHITE STOP BAR
- ⑫ STA. 6+35 TO STA. 6+47 THERMOPLASTIC PAVT. MARK. - LINE 24" - 18 FT. WHITE STOP BAR

- ⑬ 27' RT., STA. 6+58 VALVE BOXES TO BE ADJUSTED - 1 EACH
- ⑭ 29' RT., STA. 3+15 AND 29' RT., STA. 4+75 SIGN PANEL TY. 2, 42"x36" - 10.5 SQ. FT. EACH SIGN, TOTAL = 21 SQ. FT. TEL. STEEL SIGN SUP. - 16 FT. EACH SIGN, TOTAL = 32 FT.
- ⑮ 29' RT., STA. 3+65 AND 29' RT., STA. 5+25 SIGN PANEL TY. 1, 36"x36" - 9 SQ. FT. EACH SIGN, TOTAL = 18 SQ. FT. TEL. STEEL SIGN SUP. - 15.5 FT. EACH SIGN, TOTAL = 31 FT.

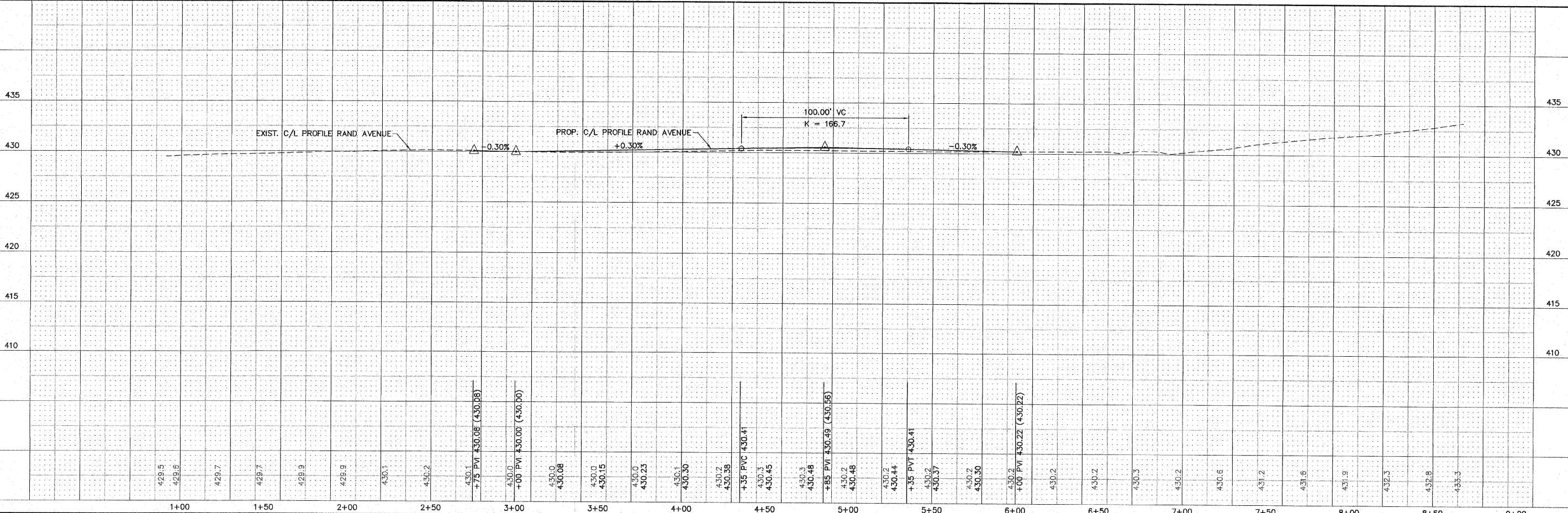
- ⑯ 25.04' RT., STA. 3+00 AND 25.04' RT., STA. 5+50 INLET AND PIPE PROTECTION - 1 EACH, TOTAL = 2 EACH
- ⑰ 17' RT., STA. 2+80 EXIST. "STOP" SIGN AND "STOP AT ROADWAY" SIGN ON A 4"x6" TREATED POST. REMOVE SIGNS AND POST. RELOCATE SIGNS TO ⑱ RELOCATE SIGN PANEL - TYPE 1 - 2.25 SQ. FT. EACH SIGN, TOTAL = 4.5 SQ. FT. COST OF REMOVAL OF THE POST IS INCLUDED IN THE COST OF RELOCATING THE SIGN PANELS.



NOTES:

- 1. FOR TRANSITION OF RESURFACING EXIST. P.C.C. PAVT. STA. 6+15 TO STA. 6+91, SEE SHEET 6.
- 2. FOR LIMITS OF COMB. CONC. CURB & GUTTER, TY. B-6.18 (SPECIAL) AND TRANSITION SEE SHEET 6.
- 3. END H.M.A. SURF. REM., 2" AT STA. 2+50± AND BEGIN H.M.A. SURF. REM., VAR. DEPTH.
- 4. FOR PATCHES AT THE INTERSECTION OF RAND AVE. AND DELMAR AVE. SEE SHEET NO. 6.

- ⑱ 22' RT., STA. 2+81 TEL. STEEL SIGN SUP. - 15.5 FT. ATTACH RELOCATED SIGNS FROM ⑰
- ⑲ LT. STA. 3+83 TO STA. 4+52 DRIVE. PAVT. REM. - 47 SQ. YDS. P.C.C. DRIVE. PAVT., 8 INCH - 31 SQ. YDS.
- ⑳ LT. STA. 4+48 TO STA. 5+00 COMB. CURB & GUTTER REM. - 52 FT.
- ㉑ 12' RT. STA. 3+00 TO STA. 5+50 THERMOPLASTIC PAVT. MARK. - LINE 4" - 274 FT. WHITE LINE/PARKING LANE. QUANTITY INCLUDES PERPENDICULAR LINES FROM THE EDGE OF THE THRU LANE TO THE GUTTER FLAG - RT. STA. 3+00 AND STA. 5+50.
- ㉒ EXIST. DETECTABLE WARNINGS TO BE REPLACED UNDER THE CONTRACT FOR THE OLD ALTON-ST. LOUIS ROAD PROJECT, SECTION 09-00029-00-PV
- ㉓ LT. STA. 1+83 TO STA. 1+91 COMB. CURB & GUTTER REM. - 22 FT. TY. B-6.18 - 22 FT.
- ㉔ 34' LT., STA. 6+30 REMOVE EXIST. WOOD POST REMOVE EXIST. "STOP", "ALL" AND "NO RIGHT TURN" SYMBOL SIGN TEL. STEEL SIGN SUP. - 17.75 FT. SIGN PANEL TY. 1, 24"x24", "NO RIGHT TURN" SYMBOL, R3-1 - 4 SQ. FT. COST TO REMOVE POST AND SIGNS AND REATTACH EXIST. SIGNS TO POST SHALL BE INCLUDED IN THE COST OF THE TEL. STEEL SIGN SUP.
- ㉕ CL. C PATCH, TY. II, 10", 7.2 SQ. YDS.
- ㉖ CL. C PATCH, TY. II, 10", 5 SQ. YDS.
- ㉗ CL. C PATCH, TY. II, 10", 5 SQ. YDS.
- ㉘ CL. C PATCH, TY. I, 10", 1.7 SQ. YDS.
- ㉙ 35' RT., STA. 6+37 SIGN PANEL TY. 1, "BIKERS DISMOUNT AND WALK ACROSS INTERSECTION", BLACK LTRS ON YELLOW, 18"x18" - 2.25 SQ. FT. SIGN PANEL TY. 1, D-11, "BIKE ROUTE", 24"x18" - 3 SQ. FT. SIGN PANEL TY. 1, M4-6, "END", 12"x6" - 0.5 SQ. FT. TEL. STEEL SIGN SUP. - 14.5 FT.
- ㉚ 28' RT., STA. 3+04 SIGN PANEL TY. 1, "BIKERS DISMOUNT AND WALK ACROSS INTERSECTION", BLACK LTRS ON YELLOW, 18"x18" - 2.25 SQ. FT. SIGN PANEL TY. 1, D-11, "BIKE ROUTE", 24"x18" - 3 SQ. FT. SIGN PANEL TY. 1, M4-6, "END", 12"x6" - 0.5 SQ. FT. TEL. STEEL SIGN SUP. - 14.5 FT.

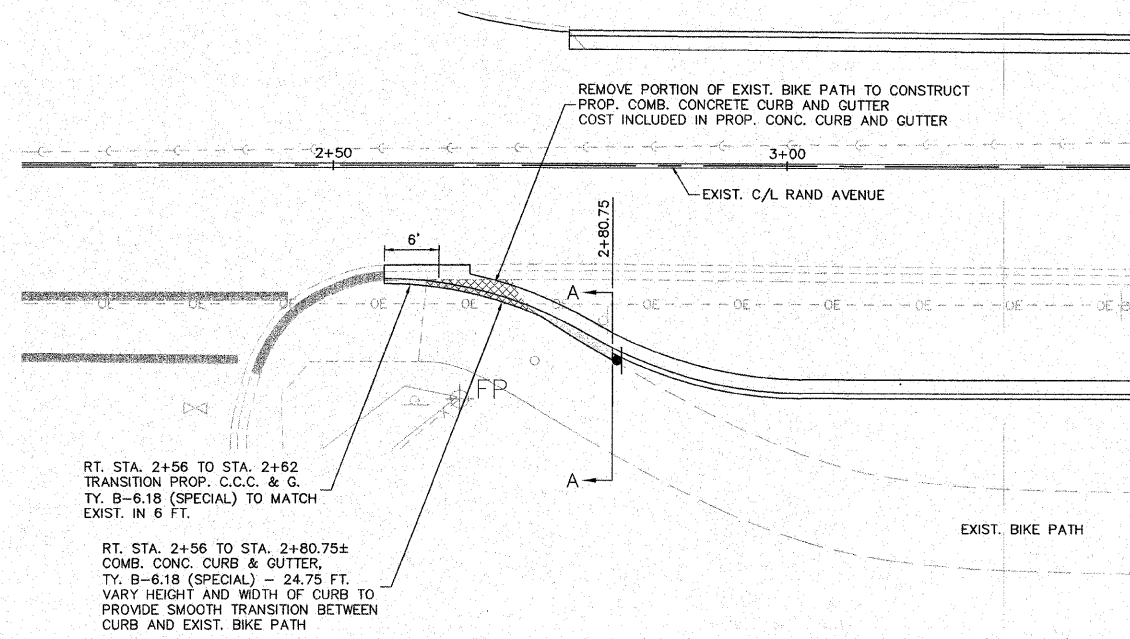


REVISIONS

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 210 Market Street, P.O. Box E, Alton, IL 62802 618-462-9755 E-mail: mail@smsengineers.com
 10 Cameron Industrial Drive, Suite 3, Granite City, IL 62040 618-977-5100 E-mail: mail@smsengineers.com
 DESIGN FIRM # 184-000992

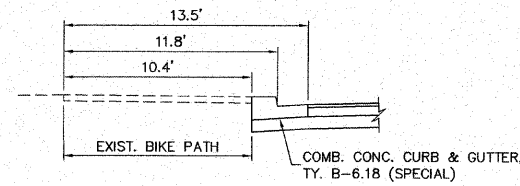
VILLAGE OF HARTFORD
 F.A.U. 8974 (RAND AVENUE)
 SECTION 10-00030-00-WR
 PLAN / PROFILE

DWG. NO. 10A/HARTFORD (447888.0)
 RAND AVE P-P DWG
 REF. BK. 1500 PG. 21-22
 JOB NO. 447888
 DSN. BY: LDA
 DWN. BY: CAD
 CHK. BY: LDA
 DATE: JUNE, 2011
 SCALE: 1" = 30' H.
 1" = 5' V.
 SHEET 5 OF 9



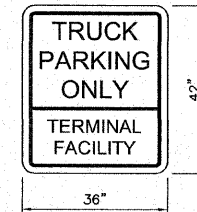
COMBINATION CONCRETE CURB AND GUTTER, TY. B-6.18 (SPECIAL) DETAIL

SCALE: 1" = 10'

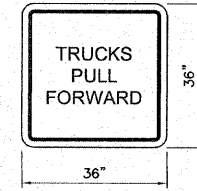


SECTION A-A

SCALE: 1" = 5'



TO BE USED:
29' RT. STA. 3+15
29' RT. STA. 4+75

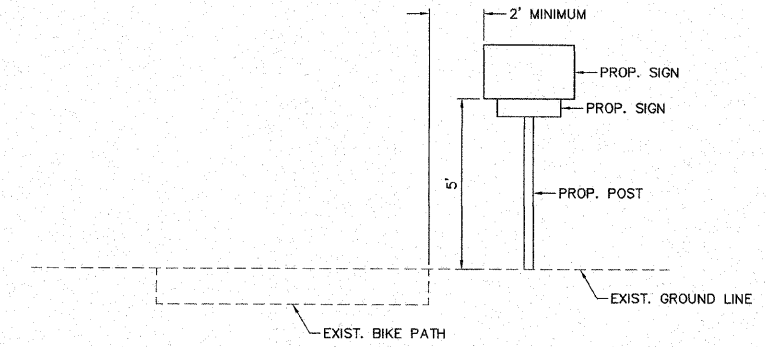


TO BE USED:
29' RT. STA. 3+65
29' RT. STA. 5+25

SIGN DETAIL

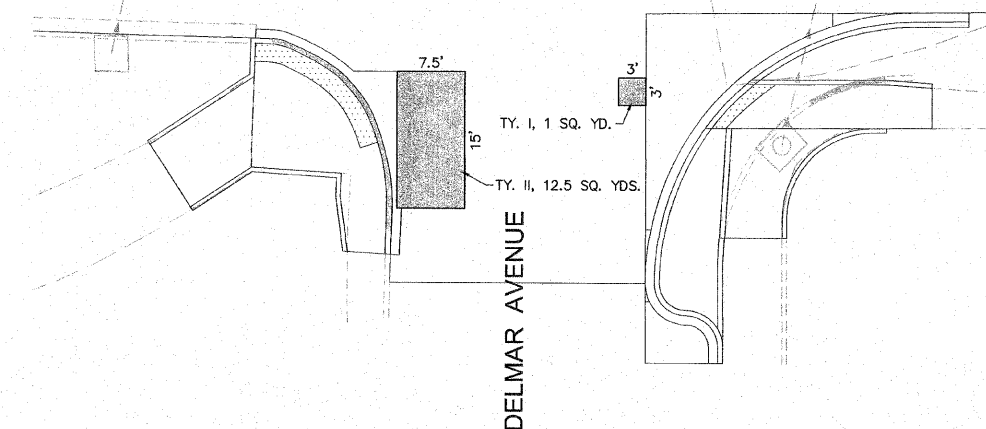
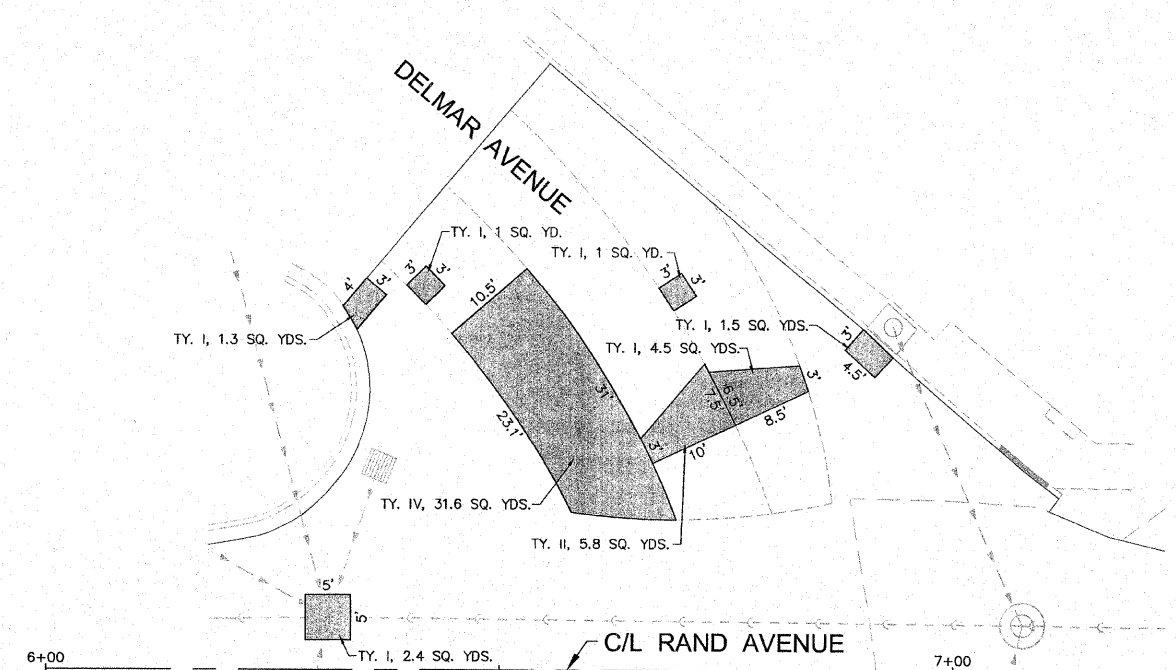
NOT TO SCALE

NOTE: ALL SIGNS SHALL BE BLACK LETTER ON A WHITE BACKGROUND WITH A BLACK BORDER



BIKE PATH SIGN PLACEMENT DETAIL

NOT TO SCALE



NOTE: ALL PATCHES AT THE INTERSECTION SHALL BE CLASS C PATCHES, 8 INCH, OF THE TYPE (TY.) AND AREA SHOWN.

INTERSECTION / PATCHING DETAIL

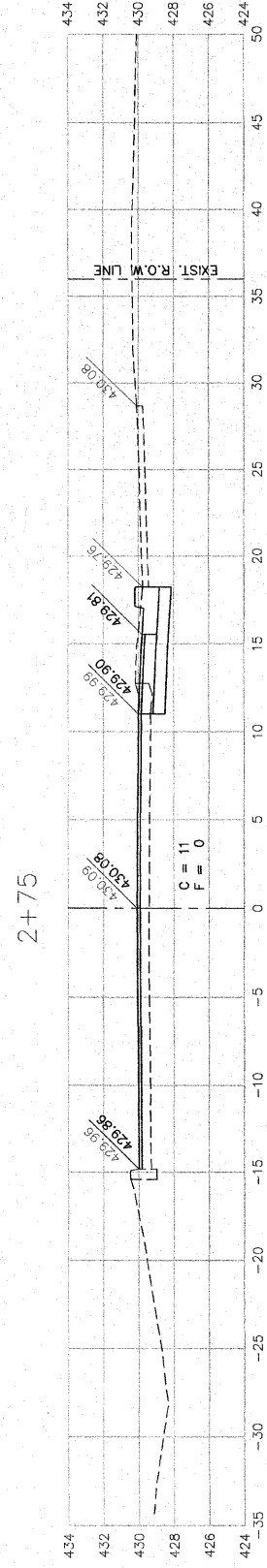
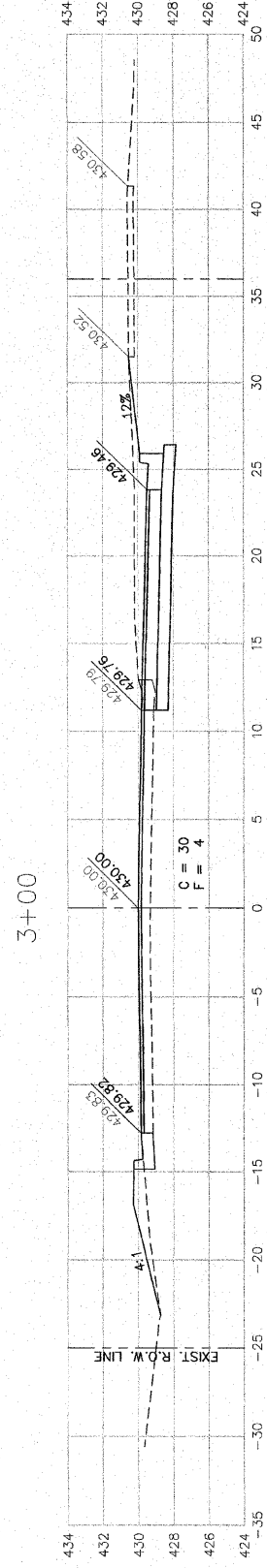
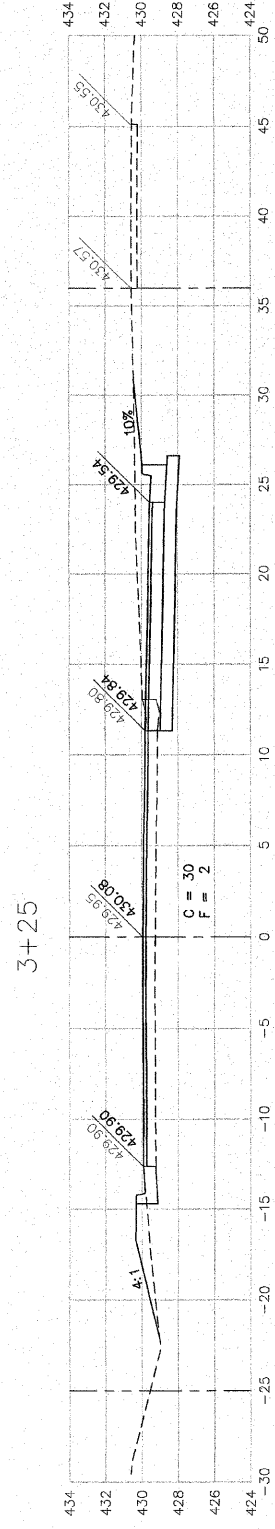
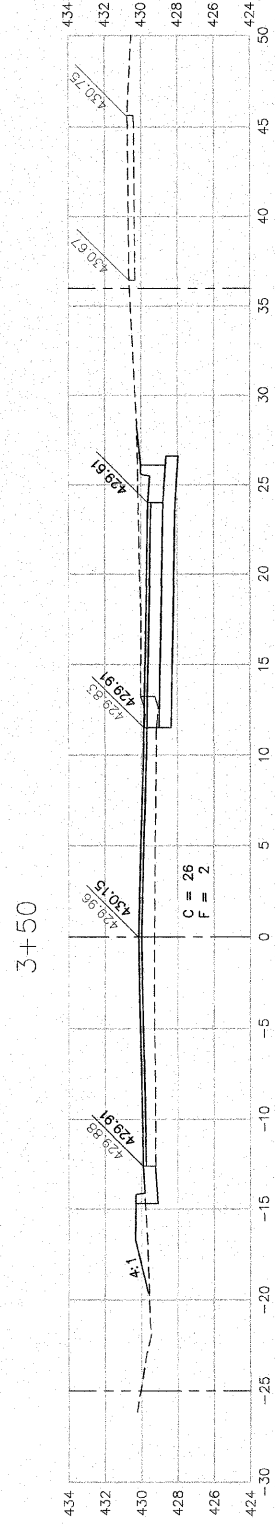
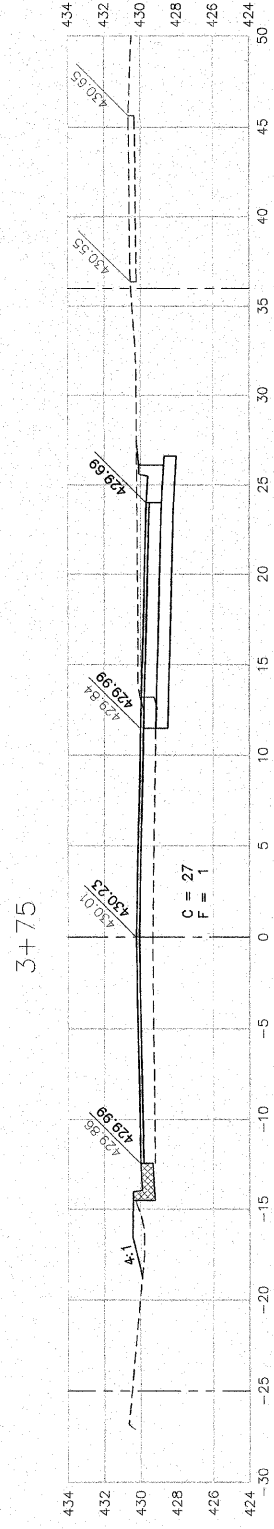
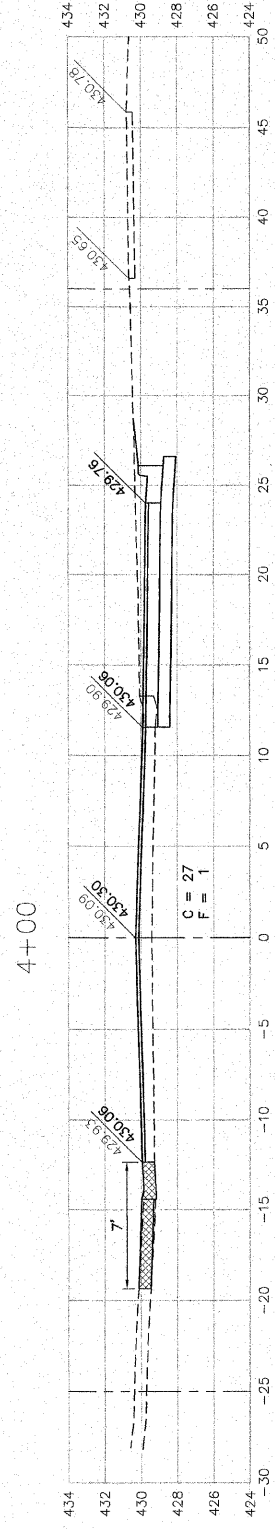
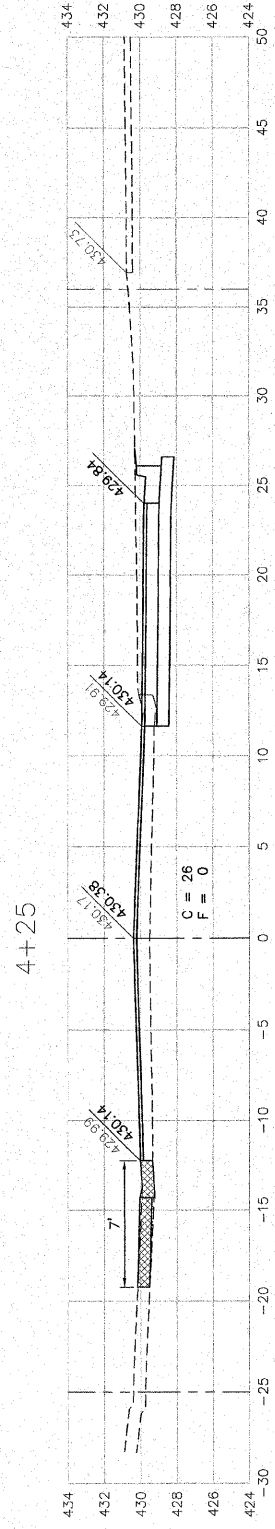
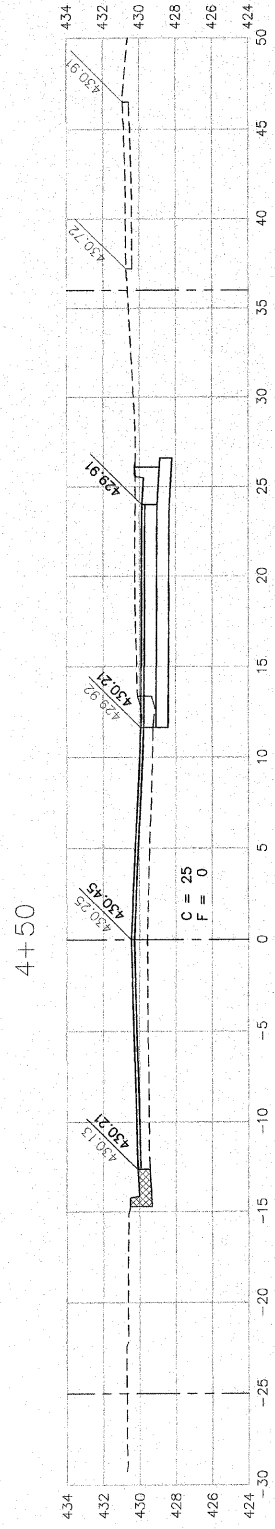
SCALE: 1" = 10'

REVISIONS

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410 Central Business Drive, Suite 3, Granite City, IL 62040 618/977-0100 E-mail: msm@smsengr.com
DESIGN FIRM # 184-000992

VILLAGE OF HARTFORD
F.A.U. 8974 (RAND AVENUE)
SECTION 10-00030-00-WR
DETAILS OF CONSTRUCTION

DWG. NO.
LP\HARTFORD (447888.0)
DETAILS.DWG
REF. BK. 1500 PG. 21-22
JOB NO. 447888
DSN. BY: LDA
DWN. BY: CAD
CHK. BY: LDA
DATE: JUNE, 2011
SCALE: AS SHOWN
SHEET 6 OF 9



EARTHWORK BEGINS STA. 2+56
C = 0
F = 0

VILLAGE OF HARTFORD
F.A.U. 8974 (RAND AVENUE)
SECTION 10-00030-00-WR
CROSS SECTIONS

DWG. NO.	LP\HARTFORD (447888,0)\
CROSS SECTIONS.DWG	
REF. BR.	1500 PG. 21-22
JOB NO.	447888
DSN. BY:	LDA
DWN. BY:	CAD
CHK. BY:	LDA
DATE:	JUNE, 2011
SCALE:	1" = 5' H. 1" = 5' V.
SHEET	8 OF 9

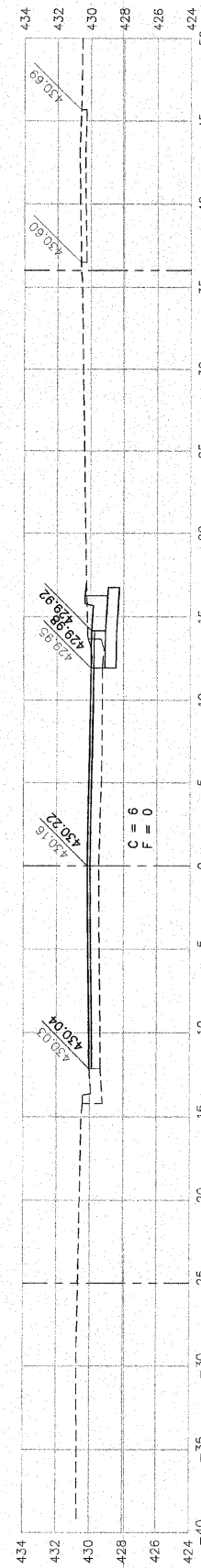
SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
215 Market Street, P.O. Box 5, Alton, IL 62002 618/469-9165 E-mail: msm@smsengineers.com
10 Central National Drive, Suite 5, Granite City, IL 62040 618/877-9900 E-mail: msm@smsengineers.com
DESIGN FIRM # 184-000992

REVISIONS

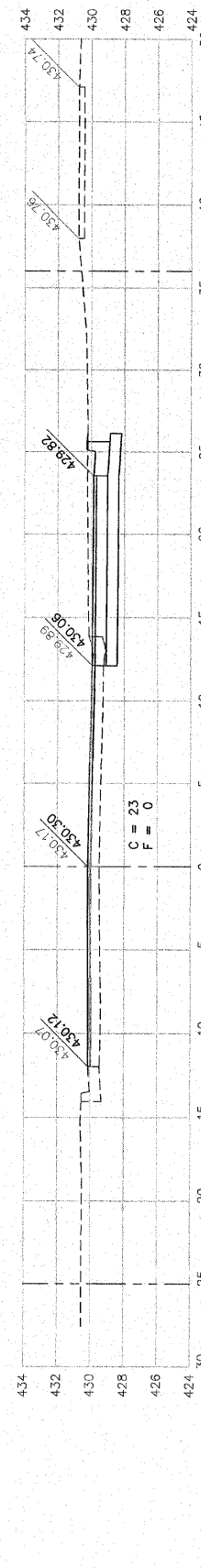
S:\land projects\HARTFORD_VILLAGE OF (447888,0) RAND AVENUE\cross sections.dwg, 02/20/11, 7:53:32 AM, jman, 15

EARTHWORK ENDS STA. 6+15
C = 0
F = 0

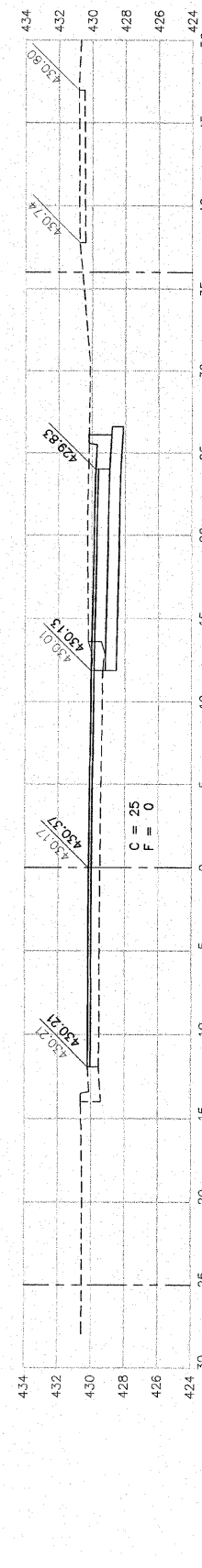
6+00



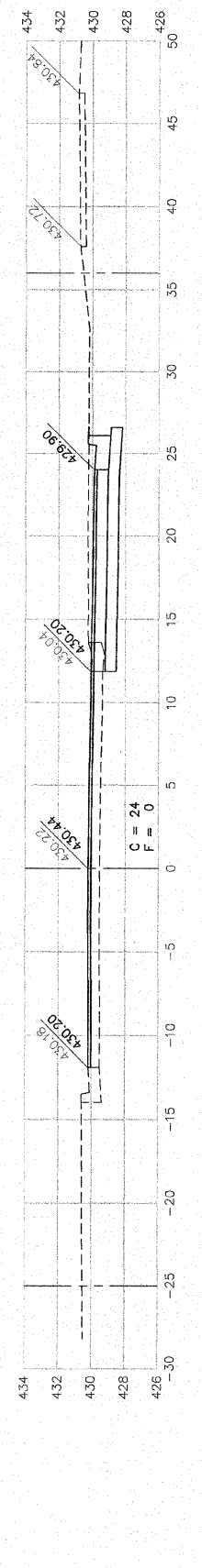
5+75



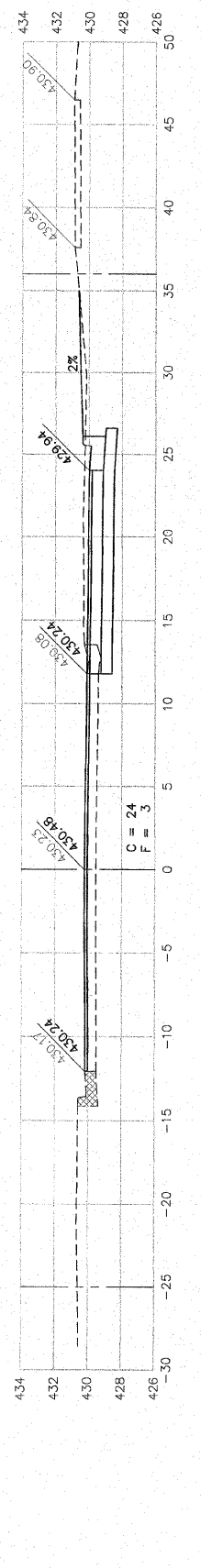
5+50



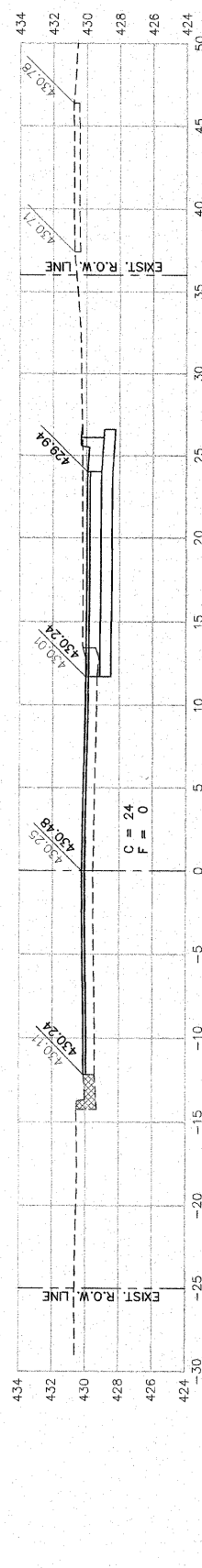
5+25



5+00



4+75



VILLAGE OF HARTFORD
F.A.U. 8974 (RAND AVENUE)
SECTION 10-00030-00-WR
CROSS SECTIONS

DWG. NO. LP\HARTFORD\447888\0\CROSS SECTIONS.DWG
REF. BK. 1500 PG. 21-22
JOB NO. 447888
DSN. BY: LDA
DWN. BY: CAD
CHK. BY: LDA
DATE: JUNE, 2011
SCALE: 1" = 5' H.
1" = 5' V.
SHEET 9 OF 9

REVISIONS

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DESIGN FIRM # 184-008992