

NOTES:
1. SEE SHEETS DU 24, DU 25, DU 29, & DU 30 FOR ADDITIONAL UTILITY INFORMATION

PROP. ∇ WASHINGTON STREET

EXIST. R.O.W.

EXIST. R.O.W.

PROP. 4" UNDERDRAIN (MODIFIED)

EXISTING JAWA EASEMENT

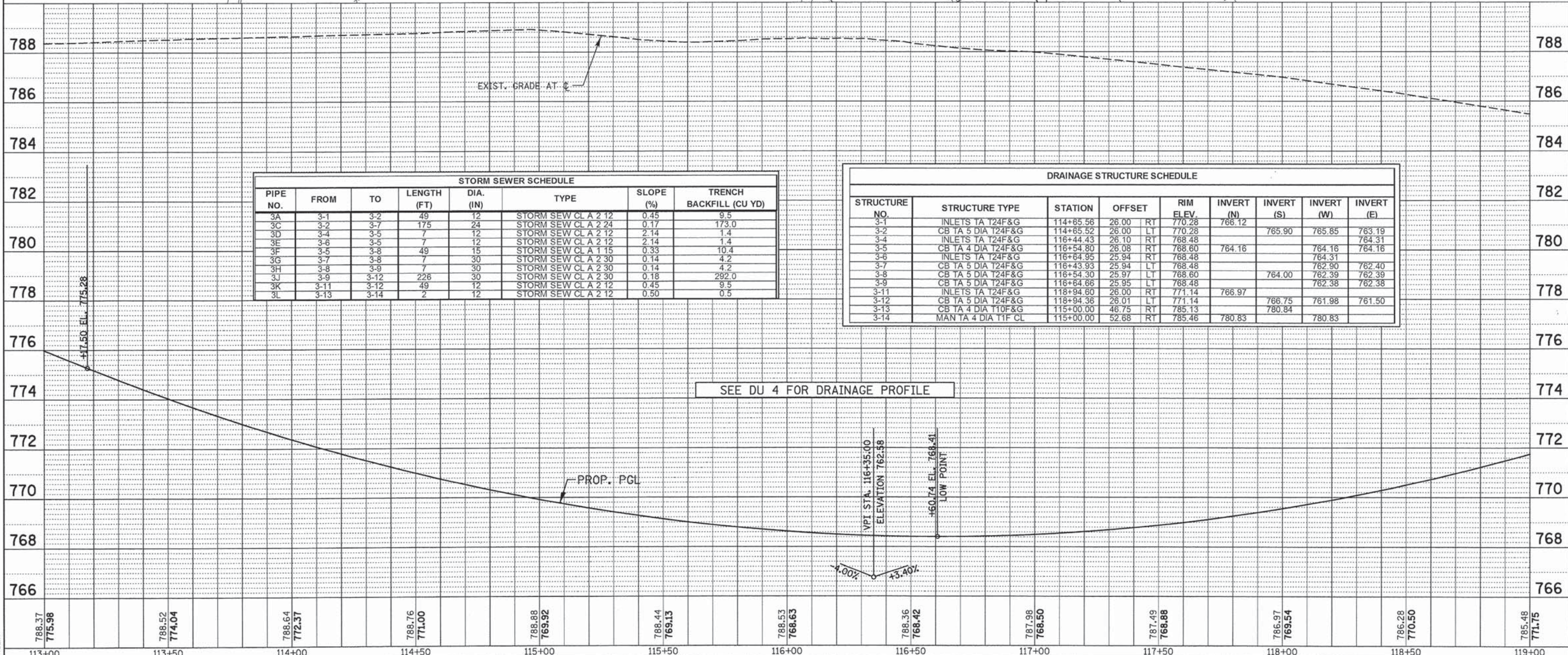
EXIST. WISCONSIN CENTRAL LIMITED RAILROAD

EXIST. R.O.W.

EXIST. R.O.W.

DATE	
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NOTE BOOK	
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PROFILE	
NOTE BOOK	
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PIPE NO.	FROM	TO	LENGTH (FT)	DIA. (IN)	TYPE	SLOPE (%)	TRENCH BACKFILL (CU YD)
3A	3-1	3-2	49	12	STORM SEW CL A 2 12	0.45	9.5
3C	3-2	3-7	175	24	STORM SEW CL A 2 24	0.17	173.0
3D	3-4	3-5	7	12	STORM SEW CL A 2 12	2.14	1.4
3E	3-6	3-5	7	12	STORM SEW CL A 2 12	2.14	1.4
3F	3-5	3-8	49	15	STORM SEW CL A 1 15	0.33	10.4
3G	3-7	3-8	7	30	STORM SEW CL A 2 30	0.14	4.2
3H	3-8	3-9	7	30	STORM SEW CL A 2 30	0.14	4.2
3J	3-9	3-12	226	30	STORM SEW CL A 2 30	0.18	292.0
3K	3-11	3-12	49	12	STORM SEW CL A 2 12	0.45	9.5
3L	3-13	3-14	2	12	STORM SEW CL A 2 12	0.50	0.5

STRUCTURE NO.	STRUCTURE TYPE	STATION	OFFSET	RIM ELEV.	INVERT (N)	INVERT (S)	INVERT (W)	INVERT (E)
3-1	INLETS TA T24F&G	114+65.56	26.00 RT	770.28	766.12			
3-2	CB TA 5 DIA T24F&G	114+65.52	26.00 LT	770.28		765.90	765.85	763.19
3-4	INLETS TA T24F&G	116+44.43	26.10 RT	768.48				764.31
3-5	CB TA 4 DIA T24F&G	116+54.80	26.08 RT	768.60	764.16		764.16	764.16
3-6	INLETS TA T24F&G	116+64.95	25.94 RT	768.48				764.31
3-7	CB TA 5 DIA T24F&G	116+43.93	25.94 LT	768.48			762.90	762.40
3-8	CB TA 5 DIA T24F&G	116+54.30	25.97 LT	768.60		764.00	762.39	762.39
3-9	CB TA 5 DIA T24F&G	116+64.66	25.95 LT	768.48			762.38	762.38
3-11	INLETS TA T24F&G	118+94.60	26.00 RT	771.14	766.97			
3-12	CB TA 5 DIA T24F&G	118+94.38	26.01 LT	771.14		766.75	761.98	761.50
3-13	CB TA 4 DIA T10F&G	115+00.00	46.75 RT	785.13	780.84			
3-14	MAN TA 4 DIA T1F CL	115+00.00	52.68 RT	785.46	780.83		780.83	

SEE DU 4 FOR DRAINAGE PROFILE

788.37 775.98	788.52 774.04	788.64 772.37	788.76 771.00	788.88 769.92	788.44 769.13	788.53 768.63	788.36 768.42	787.98 768.50	787.49 768.88	786.97 769.54	786.28 770.50	785.48 771.15
113+00	113+50	114+00	114+50	115+00	115+50	116+00	116+50	117+00	117+50	118+00	118+50	119+00

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4970 VARSITY DRIVE
LISLE, IL 60532
patrickengineering.com

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DRAWN - JWM
CHECKED - EYC
DATE - 6/30/2014

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
DRAINAGE PLAN AND PROFILE

SCALE: 1"=20' SHEET NO. DU 3 OF 37 STA. 113+00 TO STA. 119+00

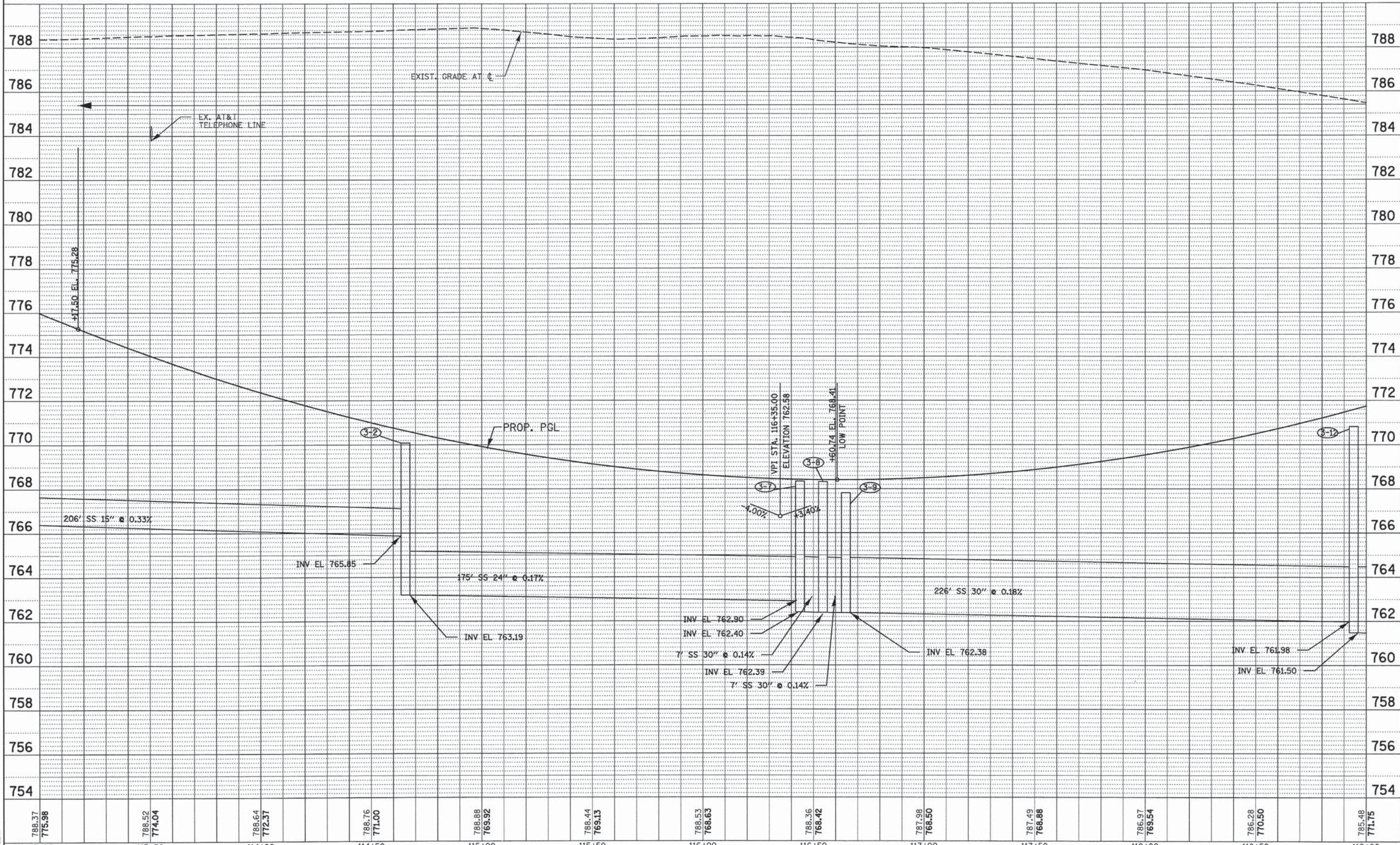
F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 101
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			61A63	

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NOTES:
1. SEE SHEET DU 24, DU 25, DU 29, & DU 30 FOR ADDITIONAL UTILITY INFORMATION

PLAN	SURVEYED	BY	DATE
	ALIGNED		
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	BY		
	NO.		

PROFILE	SURVEYED	BY	DATE
	GRADES		
	CHECKED		
	BY		
	NO.		



788.37	788.52	788.64	788.76	788.88	788.44	788.53	788.36	787.96	787.49	786.97	786.28	785.48
775.98	774.04	772.37	771.00	769.92	769.13	768.63	768.42	768.50	768.88	769.54	770.50	771.75
113+00	113+50	114+00	114+50	115+00	115+50	116+00	116+50	117+00	117+50	118+00	118+50	119+00

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DRAWN - JWM
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
DRAINAGE PROFILE

SCALE: 1"=20' SHEET NO. DU 4 OF 37 STA. 113+00 TO STA. 119+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			61A63	

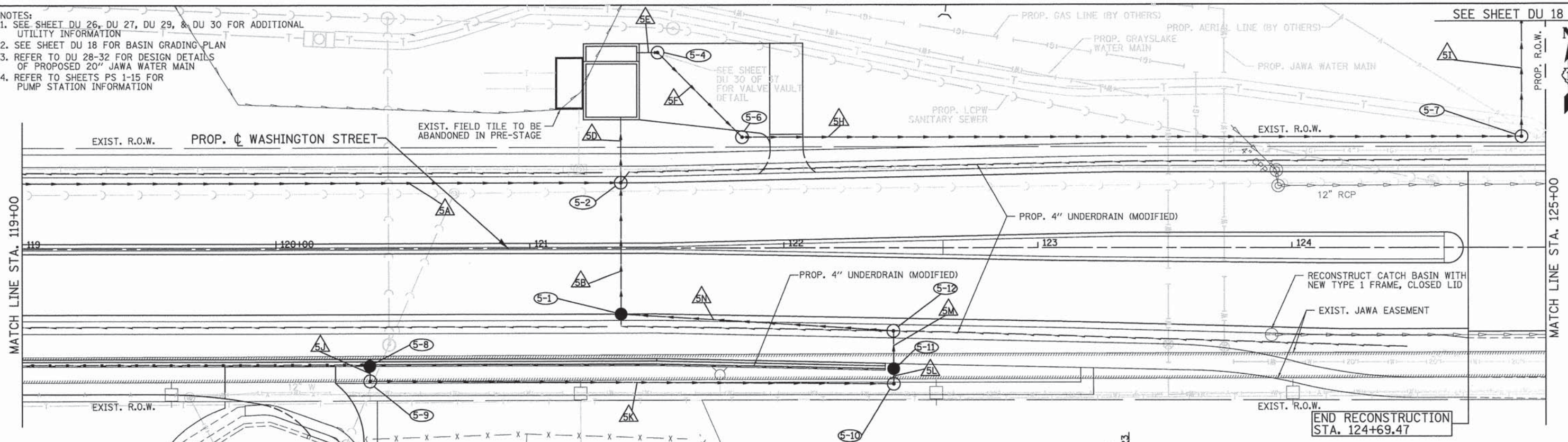
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- NOTES:
 1. SEE SHEET DU 26, DU 27, DU 29, & DU 30 FOR ADDITIONAL UTILITY INFORMATION
 2. SEE SHEET DU 18 FOR BASIN GRADING PLAN
 3. REFER TO DU 28-32 FOR DESIGN DETAILS OF PROPOSED 20" JAWA WATER MAIN
 4. REFER TO SHEETS PS 1-15 FOR PUMP STATION INFORMATION

SEE SHEET DU 18

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DATE	BY

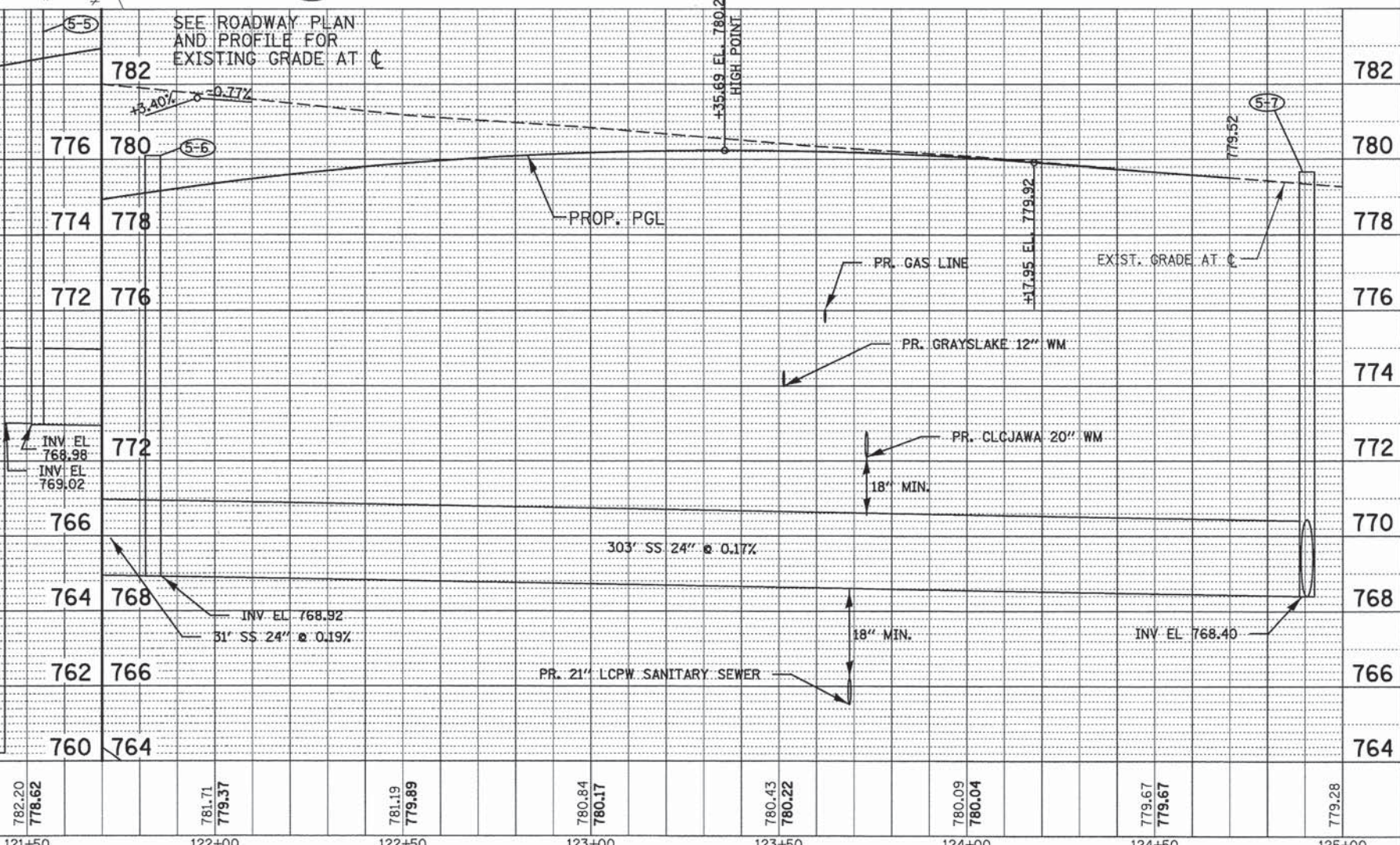
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PIPE NO.	FROM	TO	LENGTH (FT)	DIA. (IN)	TYPE	SLOPE (%)	TRENCH BACKFILL (CU YD)
5A	3-12	5-2	238	36	STORM SEW CL A 3 36	0.10	635.1
5B	5-1	5-2	48	15	STORM SEW CL A 1 15	0.33	10.2
5D	5-2	PS INLET	16	36	STORM SEW CL A 3 36	0.12	59.7
5E	PS OUTLET	5-4	5	24	STORM SEW CL A 3 24	0.20	10.4
5F	5-4	5-5	20	24	STORM SEW CL A 3 24	0.15	50.3
5G	5-5	5-6	31	24	STORM SEW CL A 3 24	0.19	69.2
5H	5-6	5-7	303	24	STORM SEW SPEC 24	0.17	558.7
5I	5-7	9-1	223	24	STORM SEW CL A 2 24	0.18	0.0
5J	5-8	5-9	2	12	STORM SEW CL A 2 12	0.50	0.0
5K	5-9	5-10	203	12	STORM SEW CL A 2 12	0.44	0.0
5L	5-10	5-11	2	12	STORM SEW CL A 2 12	21.00	0.0
5M	5-11	5-12	11	15	STORM SEW CL A 2 15	0.36	0.0
5N	5-12	5-1	104	15	STORM SEW CL A 2 15	0.32	0.0

PR. SAN. SEWER CROSSING WASHINGTON ST. AT STA. 120+44 CROSSES PR. STORM SEWER AT INV. EL. 767.18

STRUCTURE NO.	STRUCTURE TYPE	STATION	OFFSET	RIM ELEV.	INVERT (N)	INVERT (S)	INVERT (W)	INVERT (E)
5-1	CB TA 4 DIA T24F&G	121+35.88	26.00 RT	777.78	773.34			773.34
5-2	MAN TA 7 DIA T24F&G	121+35.85	25.99 LT	777.78	761.27	773.18	761.27	
PS INLET	PUMP STATION	121+35.81	45.92 LT	779.55		761.25		
PS OUTLET	PUMP STATION	121+42.11	77.38 LT	778.69			769.01	769.02
5-4	HVALVE VAULTS 5 DIA	121+50.33	77.38 LT	782.80		769.01	769.01	
5-5	MAN TA 5 DIA T11 CL	121+50.33	54.36 LT	782.80	768.98			768.98
5-6	MAN TA 5 DIA T11 CL	121+83.59	43.86 LT	779.94			768.92	768.92
5-7	MAN TA 5 DIA T11 CL	124+90.51	43.86 LT	778.43	768.40			768.40
5-8	CB TA 4 DIA T10F&G	120+36.99	46.33 RT	783.14		776.03		
5-9	MAN TA 5 DIA T11 CL	120+37.02	52.26 RT	783.18	776.02			776.02
5-10	MAN TA 5 DIA T11 CL	122+43.21	53.64 RT	782.08	775.13		775.13	
5-11	CB TA 4 DIA T8G	122+43.17	47.72 RT	780.07	774.71	775.12		
5-12	MAN TA 5 DIA T11 CL	122+43.14	32.78 RT	779.84		774.67	773.67	



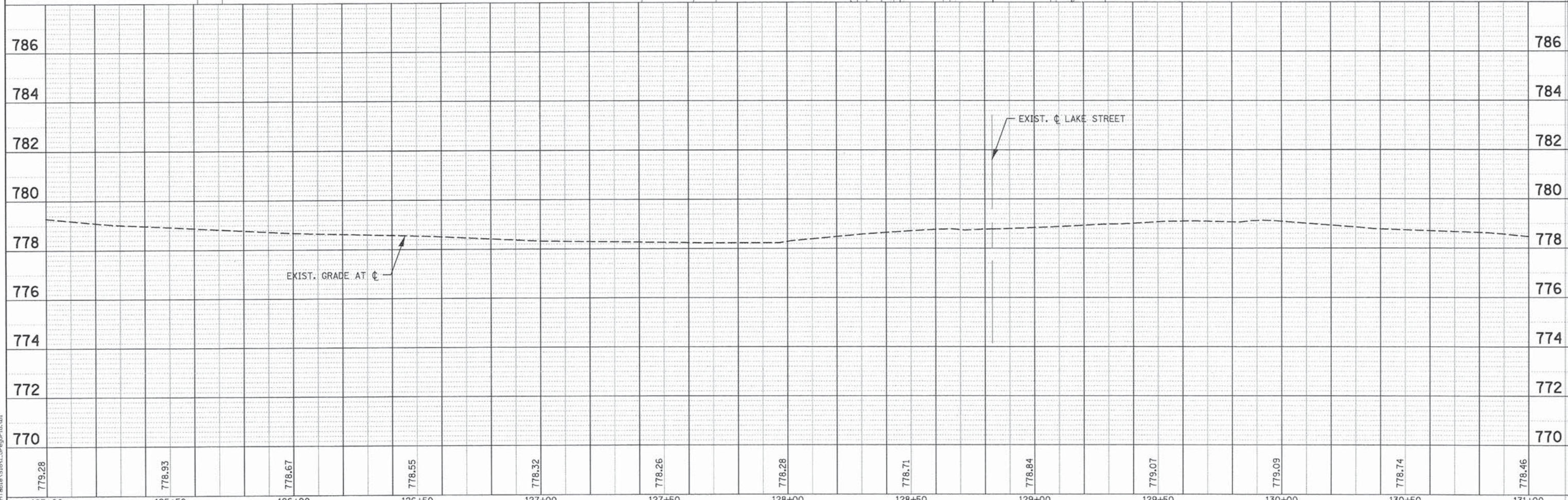
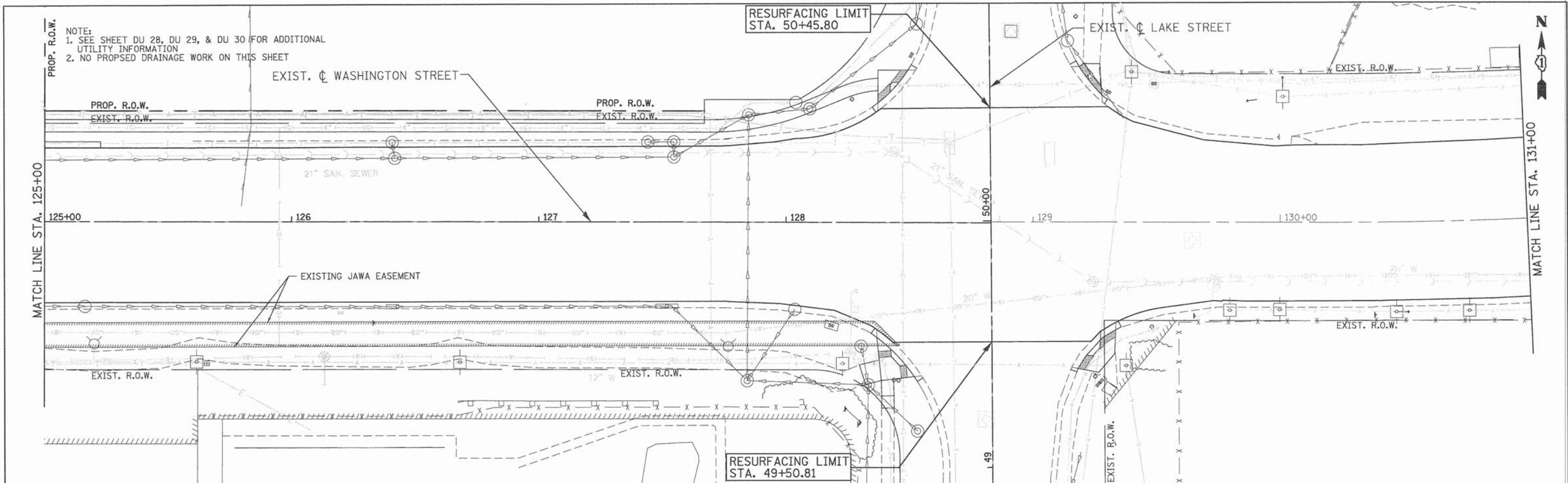
785.48	771.75	784.68	773.29	783.91	774.95	783.32	776.41	782.70	777.63	782.20	778.62	781.71	779.37	781.19	779.89	780.84	780.17	780.43	780.22	780.09	780.04	779.67	779.67	779.28
119+00	119+50	120+00	120+50	121+00	121+50	122+00	122+50	123+00	123+50	124+00	124+50	125+00												

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	SCALE: 1"=20' SHEET NO. DU 5 OF 37 STA. 119+00 TO STA. 125+00		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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PROFILE	SURVEYED	DATE
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779.28	778.93	778.67	778.55	778.32	778.26	778.28	778.71	778.84	779.07	779.09	778.74	778.46
125+00	125+50	126+00	126+50	127+00	127+50	128+00	128+50	129+00	129+50	130+00	130+50	131+00

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 Lisle, IL 60532
 patrickengineering.com

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 DATE - 6/30/2014

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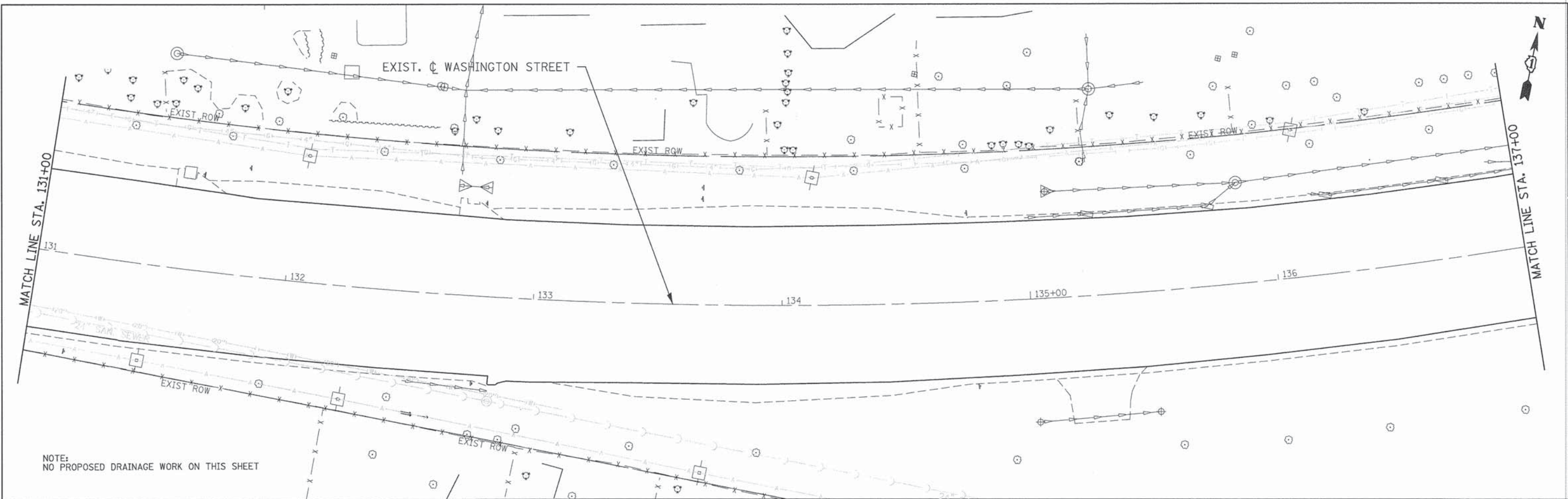
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
 DRAINAGE PLAN AND PROFILE**
 SCALE: 1"=20' SHEET NO. DU 6 OF 37 STA. 125+00 TO STA. 131+00

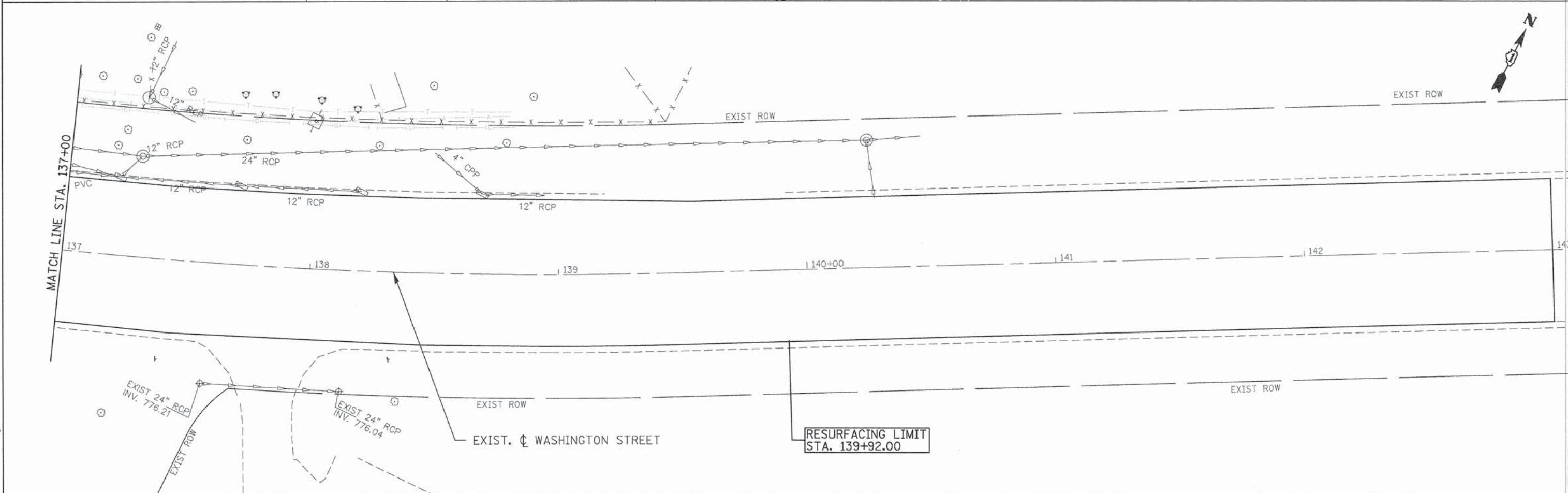
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FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			61A63	

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NOTE:
NO PROPOSED DRAINAGE WORK ON THIS SHEET



RESURFACING LIMIT
STA. 139+92.00

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4970 VARSITY DRIVE
LISLE, IL 60532
patrickengineering.com

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

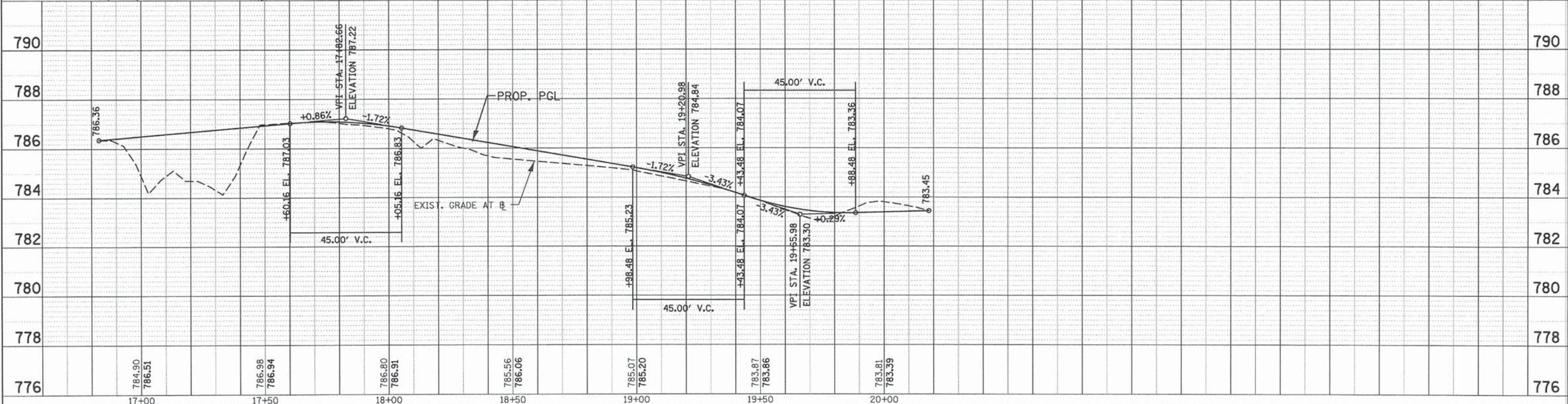
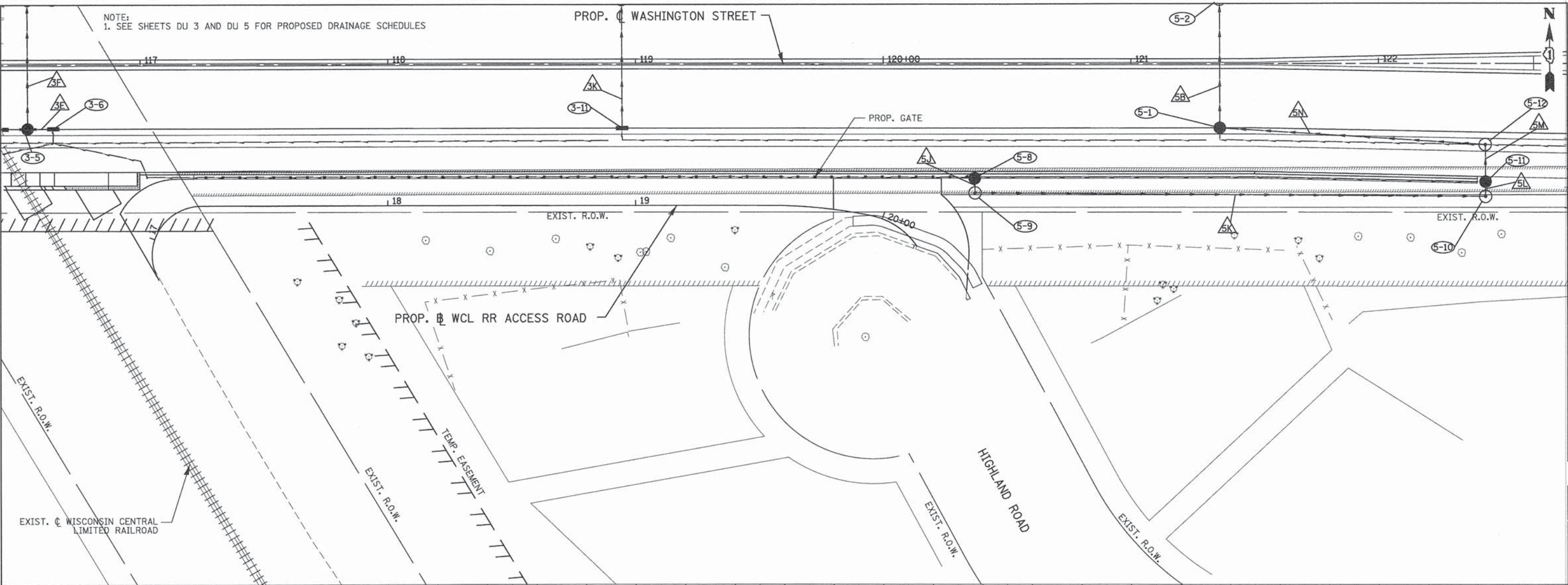
**WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
DRAINAGE PLAN**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
187	11-00121-11-BR	LAKE	496	105
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			61A63	

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NOTE:
1. SEE SHEETS DU 3 AND DU 5 FOR PROPOSED DRAINAGE SCHEDULES

PROP. WASHINGTON STREET



DATE	
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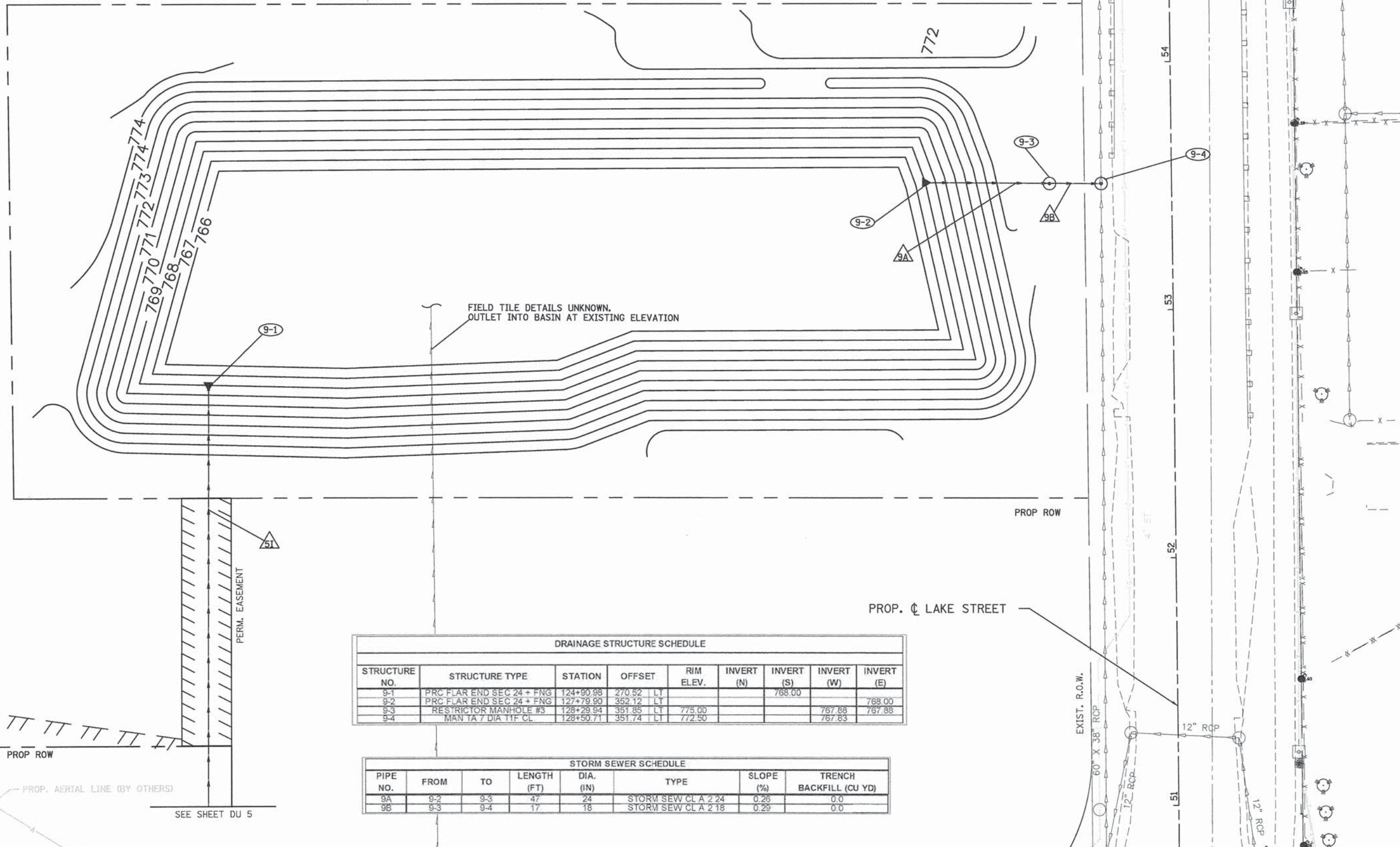
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET DRAINAGE PLAN AND PROFILE	
SCALE: 1"=20'	SHEET NO. DU 8 OF 37
STA.	TO STA.

F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 106
61A63				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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- NOTES:
 1. SEE SHEET DU 18 FOR DRAINAGE BASIN INFORMATION
 2. SEE SHEET DU 19 FOR RESTRICTOR MANHOLE DETAILS
 3. SEE SHEET DU 26, DU 27, DU 29, & DU 30 FOR ADDITIONAL UTILITY INFORMATION



DRAINAGE STRUCTURE SCHEDULE									
STRUCTURE NO.	STRUCTURE TYPE	STATION	OFFSET	RIM ELEV.	INVERT (N)	INVERT (S)	INVERT (W)	INVERT (E)	
9-1	PRC FLAR END SEC 24 + FNG	124+90.98	270.52	LT				768.00	
9-2	PRC FLAR END SEC 24 + FNG	127+79.90	352.12	LT				768.00	
9-3	RESTRICTOR MANHOLE #3	128+29.94	351.85	LT	775.00		767.88	767.88	
9-4	MAN TA 7 DIA TIF CL	128+50.71	351.74	LT	772.50		767.83		

STORM SEWER SCHEDULE							
PIPE NO.	FROM	TO	LENGTH (FT)	DIA. (IN)	TYPE	SLOPE (%)	TRENCH BACKFILL (CU YD)
9A	9-2	9-3	47	24	STORM SEW CL A 2 24	0.26	0.0
9B	9-3	9-4	17	18	STORM SEW CL A 2 18	0.29	0.0

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 4970 VARSITY DRIVE
 LISLE, IL 60532
 patrickengineering.com

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 CHECKED - EYC
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
 DRAINAGE PLAN**

SCALE: 1"=20' SHEET NO. DU 9 OF 37 STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
187	11-00121-11-BR	LAKE	496	107

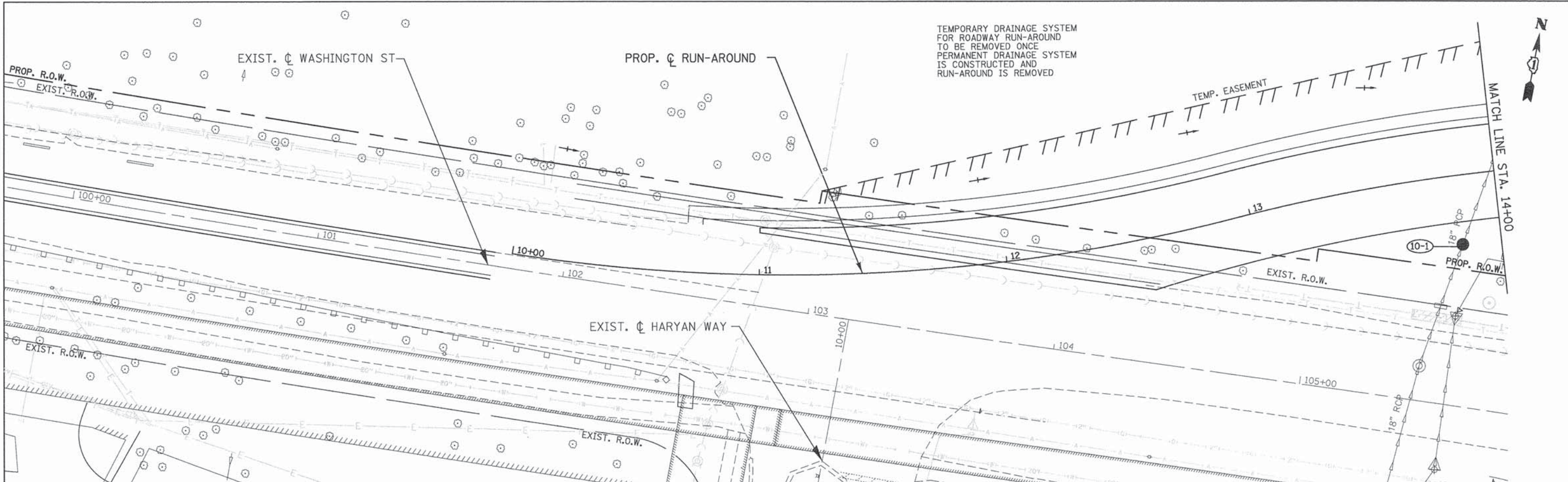
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

61A63

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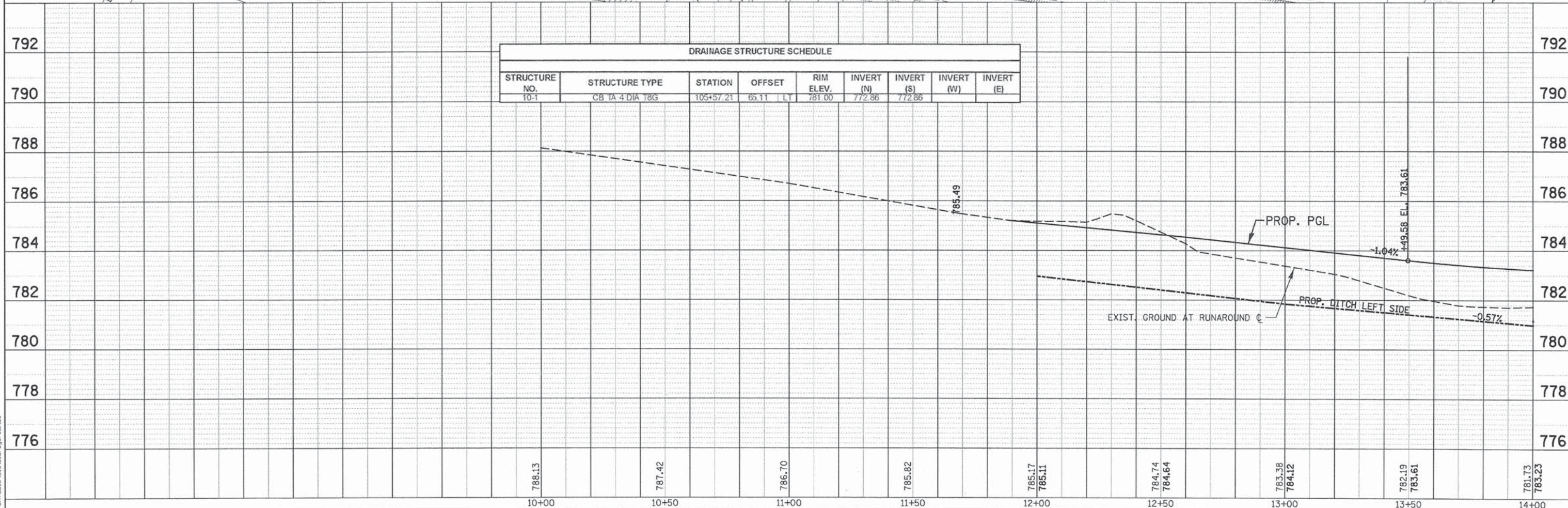
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TEMPORARY DRAINAGE SYSTEM FOR ROADWAY RUN-AROUND TO BE REMOVED ONCE PERMANENT DRAINAGE SYSTEM IS CONSTRUCTED AND RUN-AROUND IS REMOVED

DRAINAGE STRUCTURE SCHEDULE									
STRUCTURE NO.	STRUCTURE TYPE	STATION	OFFSET	RIM ELEV.	INVERT (N)	INVERT (S)	INVERT (W)	INVERT (E)	
10-1	CB 1A 4 DIA 18G	105+57.21	65.11 LT	781.00	772.86	772.86			

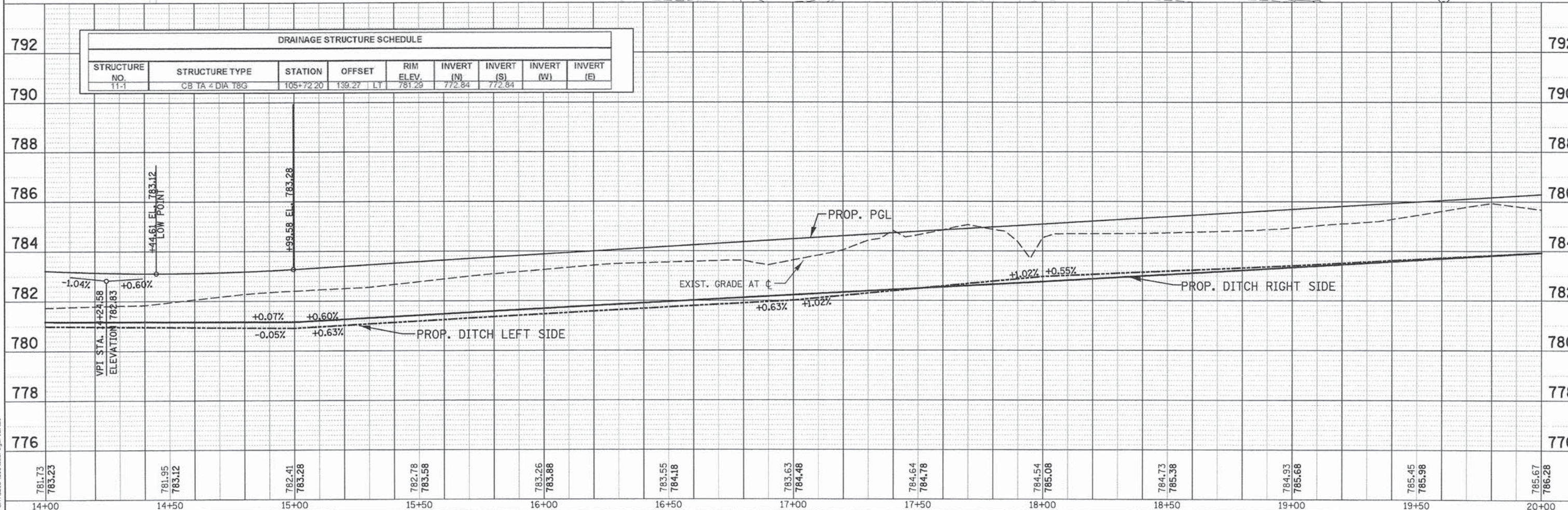
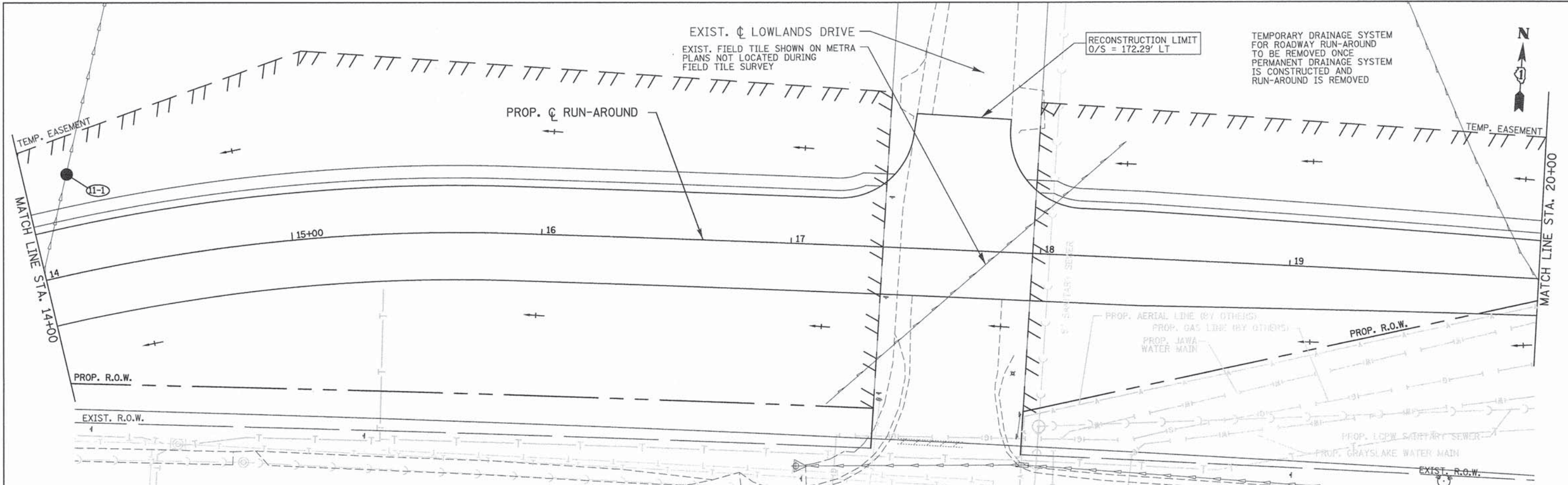


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PLAN	SURVEYED	DATE
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	NO. OF WAY CHECKED	
	NO. OF FILE NAME	

PROFILE	SURVEYED	DATE
	GRADES CHECKED	BY
	NOTE BOOK	
	NO. OF NOTING	
	STRUCTURE NOTING	
	CRIPD	



DRAINAGE STRUCTURE SCHEDULE								
STRUCTURE NO.	STRUCTURE TYPE	STATION	OFFSET	RIM ELEV.	INVERT (N)	INVERT (S)	INVERT (W)	INVERT (E)
11-1	CB TA 4 DIA 18G	105+72.20	139.27 LT	781.29	772.84	772.84		

781.73 783.23	781.95 783.12	782.41 783.28	782.78 783.58	783.26 783.88	783.55 784.18	783.63 784.48	784.64 784.78	784.54 785.08	784.73 785.38	784.93 785.66	785.45 785.98	785.67 786.28
14+00	14+50	15+00	15+50	16+00	16+50	17+00	17+50	18+00	18+50	19+00	19+50	20+00

PATRICK ENGINEERING INC.
4970 VARSITY DRIVE
LISLE, IL 60532
patrickengineering.com

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DESIGNED - JWM
DRAWN - JWM
CHECKED - EYC
DATE - 6/30/2014

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
DRAINAGE PLAN AND PROFILE RUN-AROUND
SCALE: 1"=20' SHEET NO. DU 11 OF 37 STA. 14+00 TO STA. 20+00

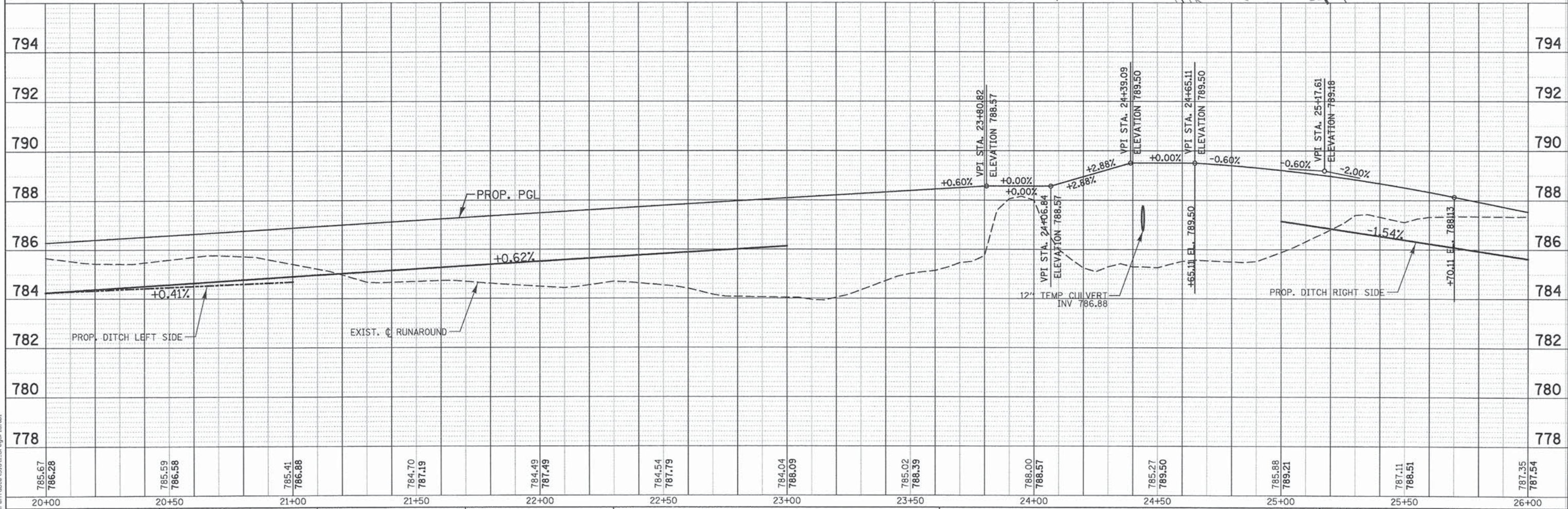
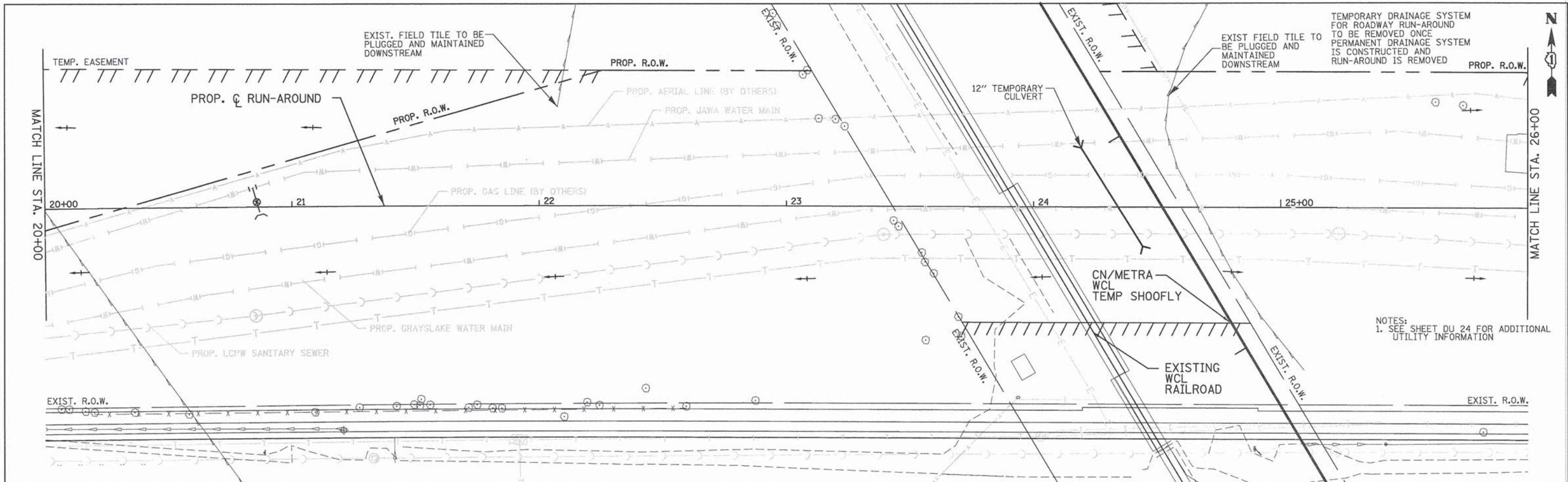
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
187	11-00121-11-BR	LAKE	496	109
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			61A63	

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REVISION	DATE	BY
DESCRIPTION		
PLANNED		
ALIGNED		
CHECKED		
NO.		

PROFILE	NO.	DATE
SCHEMATIC		
GRADES		
NOTES		
STRUCTURE		
NOTATION		
CHKD		
NO.		



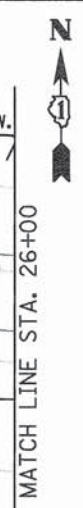
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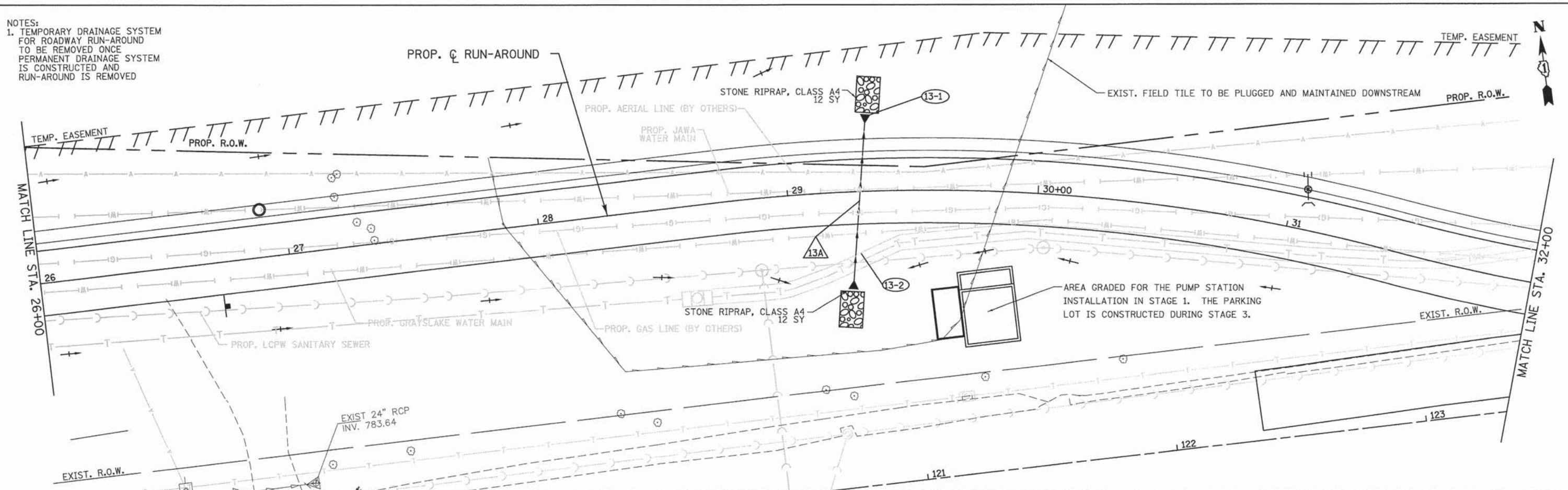
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
DRAINAGE PLAN AND PROFILE RUN-AROUND
SCALE: 1"=20' SHEET NO. DU 12 OF 37 STA. 20+00 TO STA. 26+00

F.A.U RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 110
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

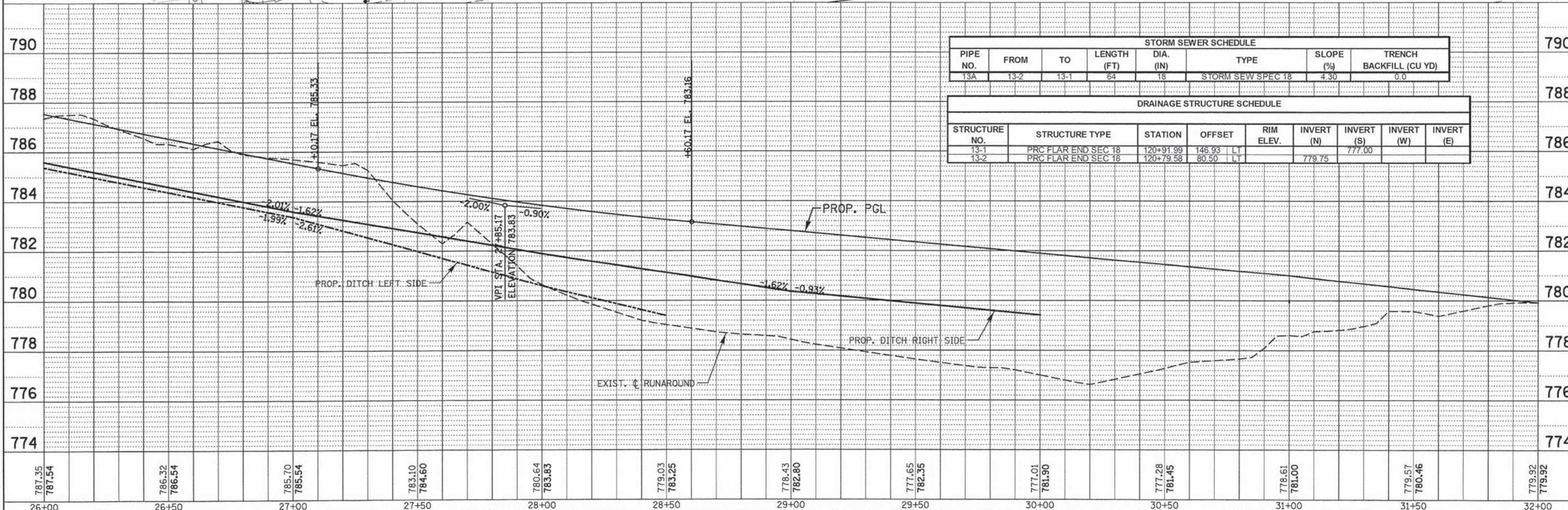


NOTES:
 1. TEMPORARY DRAINAGE SYSTEM FOR ROADWAY RUN-AROUND TO BE REMOVED ONCE PERMANENT DRAINAGE SYSTEM IS CONSTRUCTED AND RUN-AROUND IS REMOVED



REVISIONS	DATE
PLANNED	
ALIGNED	
CHECKED	
NO. _____	
PLAN	
NOTE BOOK	
NO. _____	

REVISIONS	DATE
GRADES CHECKED	
B.M. NOTED	
STRUCTURE NOTATIONS CHECKED	
NO. _____	
PROFILE	
NOTE BOOK	
NO. _____	



STORM SEWER SCHEDULE						
PIPE NO.	FROM	TO	LENGTH (FT)	DIA. (IN)	TYPE	SLOPE (%)
13A	13-2	13-1	64	18	STORM SEW SPEC 18	4.30

DRAINAGE STRUCTURE SCHEDULE								
STRUCTURE NO.	STRUCTURE TYPE	STATION	OFFSET	RIM ELEV.	INVERT (N)	INVERT (S)	INVERT (W)	INVERT (E)
13-1	PRC FLAR END SEC 18	120+91.99	146.93	LT		779.75		
13-2	PRC FLAR END SEC 18	120+79.58	80.50	LT		777.00		

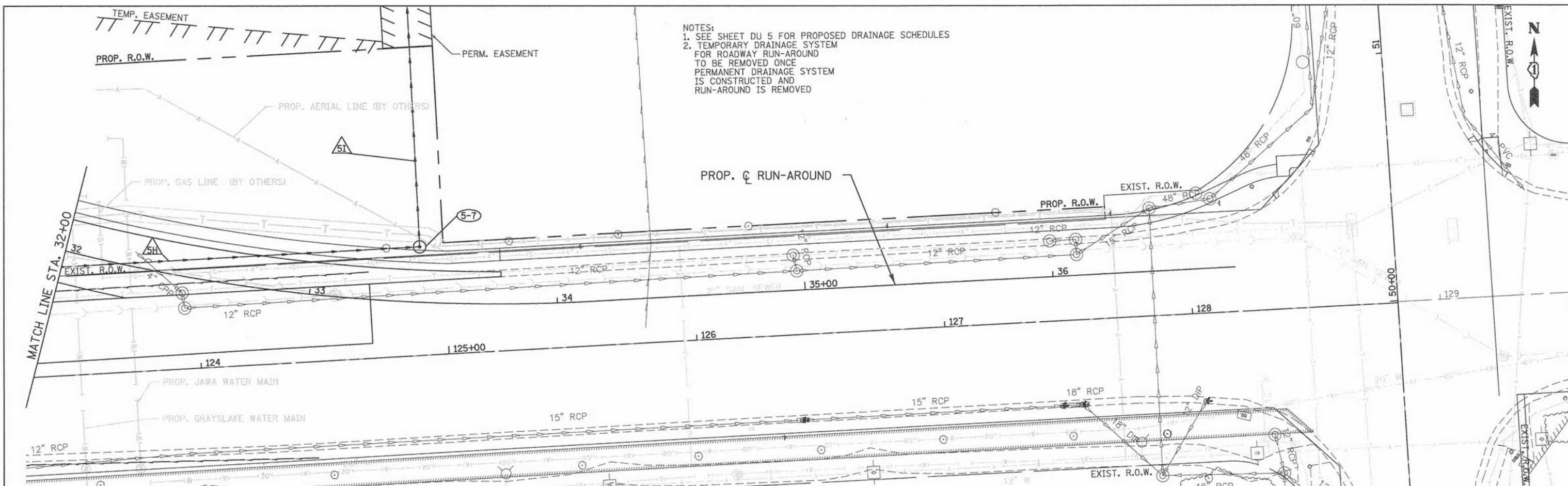
787.35	787.54	786.32	786.54	785.70	785.54	783.10	784.60	780.64	783.83	779.03	783.25	778.43	782.80	777.65	782.35	777.01	781.90	777.28	781.45	778.61	781.00	779.57	780.46	779.92	779.92
26+00	26+50	27+00	27+50	28+00	28+50	29+00	29+50	30+00	30+50	31+00	31+50	32+00													

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	SCALE: 1"=20' SHEET NO. DU 13 OF 37 STA. 26+00 TO STA. 32+00					FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	

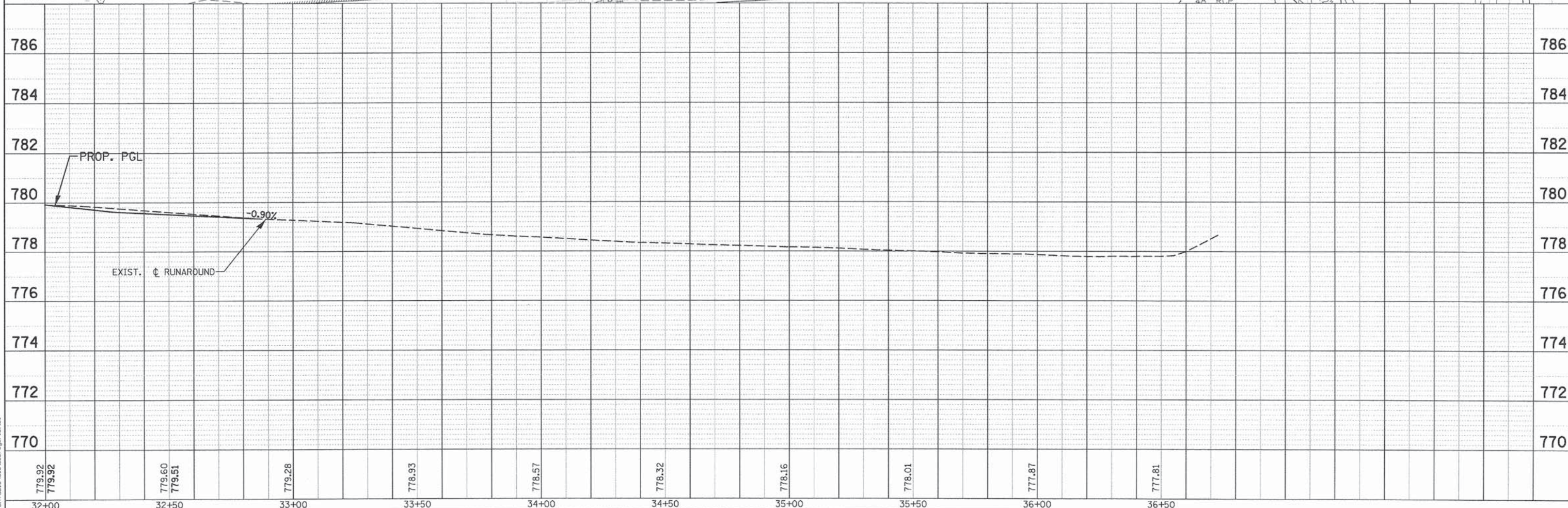
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DATE	
BY	
SURVEYED	
ALIGNED	
CHECKED	
NOTE BOOK	
NO. OF WAY CHECKED	
NO.	

DATE	
BY	
SURVEYED	
GRADES CHECKED	
NOTE BOOK	
NO. OF STRUCTURE NOTATIONS CHECKED	
NO.	



NOTES:
 1. SEE SHEET DU 5 FOR PROPOSED DRAINAGE SCHEDULES
 2. TEMPORARY DRAINAGE SYSTEM FOR ROADWAY RUN-AROUND TO BE REMOVED ONCE PERMANENT DRAINAGE SYSTEM IS CONSTRUCTED AND RUN-AROUND IS REMOVED



779.92	779.60	779.28	778.93	778.57	778.32	778.16	778.01	777.87	777.81												
32+00	32+50	33+00	33+50	34+00	34+50	35+00	35+50	36+00	36+50												
PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com										USER NAME = tkoeppen(Rdw.Lisle) PLOT CONFIG = PDF(Grey_Small.plt) PLOT SCALE = 1:48 PLOT DATE = 7/3/2014 12:24:01 AM		DESIGNED - JWM DRAWN - JWM CHECKED - EYC DATE - 6/30/2014		REVISED - REVISED - REVISED - REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET DRAINAGE PLAN AND PROFILE RUN-AROUND		F.A.U. RTE. 187 SECTION 11-00121-11-BR COUNTY LAKE TOTAL SHEETS 496 SHEET NO. 112 61A63	
SCALE: 1"=20'										SHEET NO. DU 14 OF 37		STA. 32+00 TO STA. EOP		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

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STORM SEWER SCHEDULE							
PIPE NO.	FROM	TO	LENGTH (FT)	DIA. (IN)	TYPE	SLOPE (%)	TRENCH BACKFILL (CU YD)
1A	1-1	1-2	5	21	STORM SEW CL A 2 21	0.21	5.2
1B	1-2	1-3	6	21	STORM SEW CL A 1 21	0.21	6.3
1C	1-4	1-3	6	15	STORM SEW CL A 3 15	0.33	11.7
1D	1-5	1-4	5	15	STORM SEW CL A 3 15	0.20	9.6
1E	1-6	1-7	99	24	STORM SEW SPEC 24	0.78	15.9
1F	1-10	1-5	91	24	STORM SEW CL A 2 24	0.18	197.5
1G	1-9	1-10	56	18	STORM SEW CL A 2 18	0.45	22.1
1I	2-11	1-10	374	24	STORM SEW SPEC 24	0.17	743.1
1J	1-P	1-1	62	36	STORM SEW CL A 1 36	0.10	0.0
1K	1-3	1-8	89	18	STORM SEW CL A 3 18	0.15	158.1
2A	2-2	2-11	11	15	STORM SEW CL A 2 15	0.36	11.0
2B	2-3	2-1	3	18	STORM SEW CL A 2 18	0.33	2.4
2C	2-4	2-3	53	18	STORM SEW CL A 2 18	1.00	14.2
2D	2-5	2-6	48	12	STORM SEW CL A 2 12	0.46	9.8
2F	2-6	3-2	206	15	STORM SEW CL A 2 15	0.33	238.1
2G	2-8	2-4	68	15	STORM SEW SPEC 15	2.43	47.2
2H	2-9	2-8	37	12	STORM SEW SPEC 12	0.46	12.6
2I	2-10	2-9	32	12	STORM SEW CL A 1 12	0.44	10.6
2J	2-1	2-11	16	24	STORM SEW CL A 2 24	0.19	13.5
2K	2-12	2-2	3	12	STORM SEW CL A 2 12	0.67	3.5
2L	2-13	2-12	230	12	STORM SEW CL A 2 12	0.44	0.0
2M	2-14	2-13	2	12	STORM SEW CL A 2 12	0.50	0.0
2N	3-14	2-13	238	12	STORM SEW CL A 2 12	0.44	0.0
3A	3-1	3-2	49	12	STORM SEW CL A 2 12	0.45	9.5
3C	3-2	3-7	175	24	STORM SEW CL A 2 24	0.17	173.0
3D	3-4	3-5	7	12	STORM SEW CL A 2 12	2.14	1.4
3E	3-6	3-5	7	12	STORM SEW CL A 2 12	2.14	1.4
3F	3-5	3-8	49	15	STORM SEW CL A 1 15	0.33	10.4
3G	3-7	3-8	7	30	STORM SEW CL A 2 30	0.14	4.2
3H	3-8	3-9	7	30	STORM SEW CL A 2 30	0.14	4.2
3J	3-9	3-12	226	30	STORM SEW CL A 2 30	0.18	292.0
3K	3-11	3-12	49	12	STORM SEW CL A 2 12	0.45	9.5
3L	3-13	3-14	2	12	STORM SEW CL A 2 12	0.50	0.5
5A	3-12	5-2	238	36	STORM SEW CL A 3 36	0.10	635.1
5B	5-1	5-2	48	15	STORM SEW CL A 1 15	0.33	10.2
5D	5-2	PS INLET	16	36	STORM SEW CL A 3 36	0.12	59.7
5E	PS OUTLET	5-4	5	24	STORM SEW CL A 3 24	0.20	10.4
5F	5-4	5-5	20	24	STORM SEW CL A 3 24	0.15	50.3
5G	5-5	5-6	31	24	STORM SEW CL A 3 24	0.19	69.2
5H	5-6	5-7	303	24	STORM SEW SPEC 24	0.17	558.7
5I	5-7	9-1	223	24	STORM SEW CL A 2 24	0.18	0.0
5J	5-8	5-9	2	12	STORM SEW CL A 2 12	0.50	0.0
5K	5-9	5-10	203	12	STORM SEW CL A 2 12	0.44	0.0
5L	5-10	5-11	2	12	STORM SEW CL A 2 12	0.50	0.0
5M	5-11	5-12	11	15	STORM SEW CL A 2 15	0.36	0.0
5N	5-12	5-1	104	15	STORM SEW CL A 2 15	0.32	0.0
9A	9-2	9-3	47	24	STORM SEW CL A 2 24	0.26	0.0
9B	9-3	9-4	17	18	STORM SEW CL A 2 18	0.29	0.0
13A	13-2	13-1	64	18	STORM SEW SPEC 18	4.30	0.0

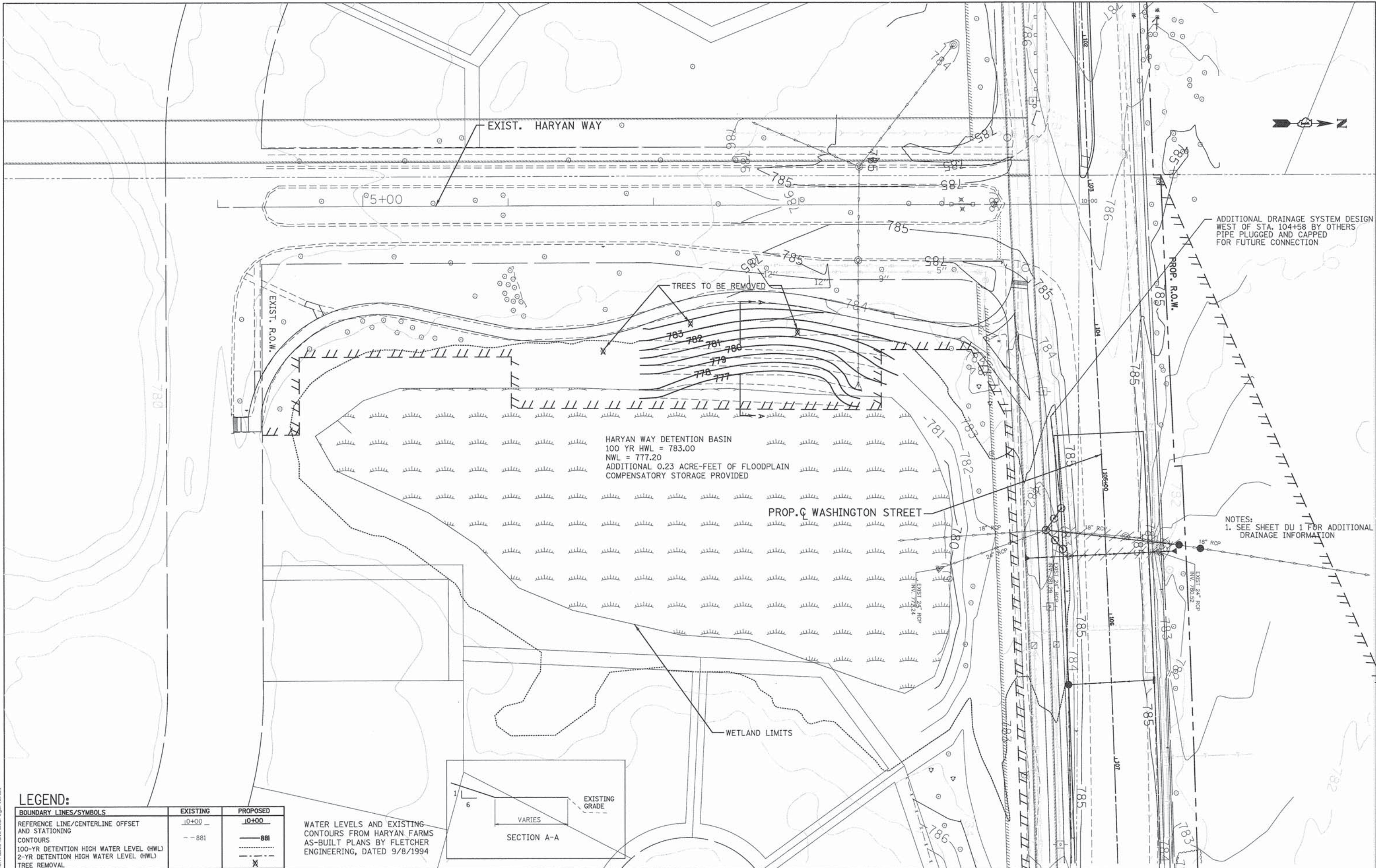
EXISTING STORM SEWER REMOVAL SCHEDULE							
	FROM		TO	LENGTH (FT)	DIA. (IN)	MATERIAL	
WASH. ST.	105+40.01	RT	105+36.73	LT	55	18	RCP
WASH. ST.	105+46.73	LT	105+51.91	LT	26	18	RCP
WASH. ST.	105+51.91	LT	105+54.13	LT	12	18	RCP
WASH. ST.	105+58.75	RT	105+58.49	LT	63	24	RCP
WASH. ST.	108+69.50	RT	108+90.87	RT	21	12	PVC
WASH. ST.	108+66.77	LT	109+57.05	LT	91	12	RCP
WASH. ST.	109+57.05	LT	111+18.05	LT	162	12	RCP
WASH. ST.	111+18.05	LT	112+79.04	LT	162	12	RCP
WASH. ST.	116+67.38	LT	117+00.23	LT	33	15	CMP
WASH. ST.	118+25.87	LT	118+57.33	LT	32	24	RCP
WASH. ST.	121+50.02	RT	123+91.98	RT	242	12	RCP

TEMPORARY STORM SEWER REMOVAL SCHEDULE							
	FROM		TO	LENGTH (FT)	DIA. (IN)	MATERIAL	
WASH. ST.	120+82.32	LT	120+91.99	LT	53	18	RCP

- NOTES: 1. CLASS A PIPE CULVERTS AND CLASS A STORM SEWERS SHALL CONSIST OF THE FOLLOWING MATERIALS:
 REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE
 2. PIPES DESIGNATED "STORM SEW SPEC" SHALL SATISFY WATER MAIN REQUIREMENTS (SEE SPECIAL PROVISIONS).
 3. COMPREHENSIVE STORM SEWER SCHEDULE INCLUDES ALL SCHEDULES SHOWN ON PLAN & PROFILE SHEETS

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	SCALE: SHEET NO. DU 16 OF 37 STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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PATRICK ENGINEERING INC.
 4970 VARSITY DRIVE
 LISLE, IL 60532
 patrickengineering.com

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 DRAWN - JWM
 CHECKED - EYC
 DATE - 6/30/2014

REVISED -
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 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
BASIN 1 GRADING PLAN
 SCALE: 1"=30' SHEET NO. DU 17 OF 37 STA. TO STA.

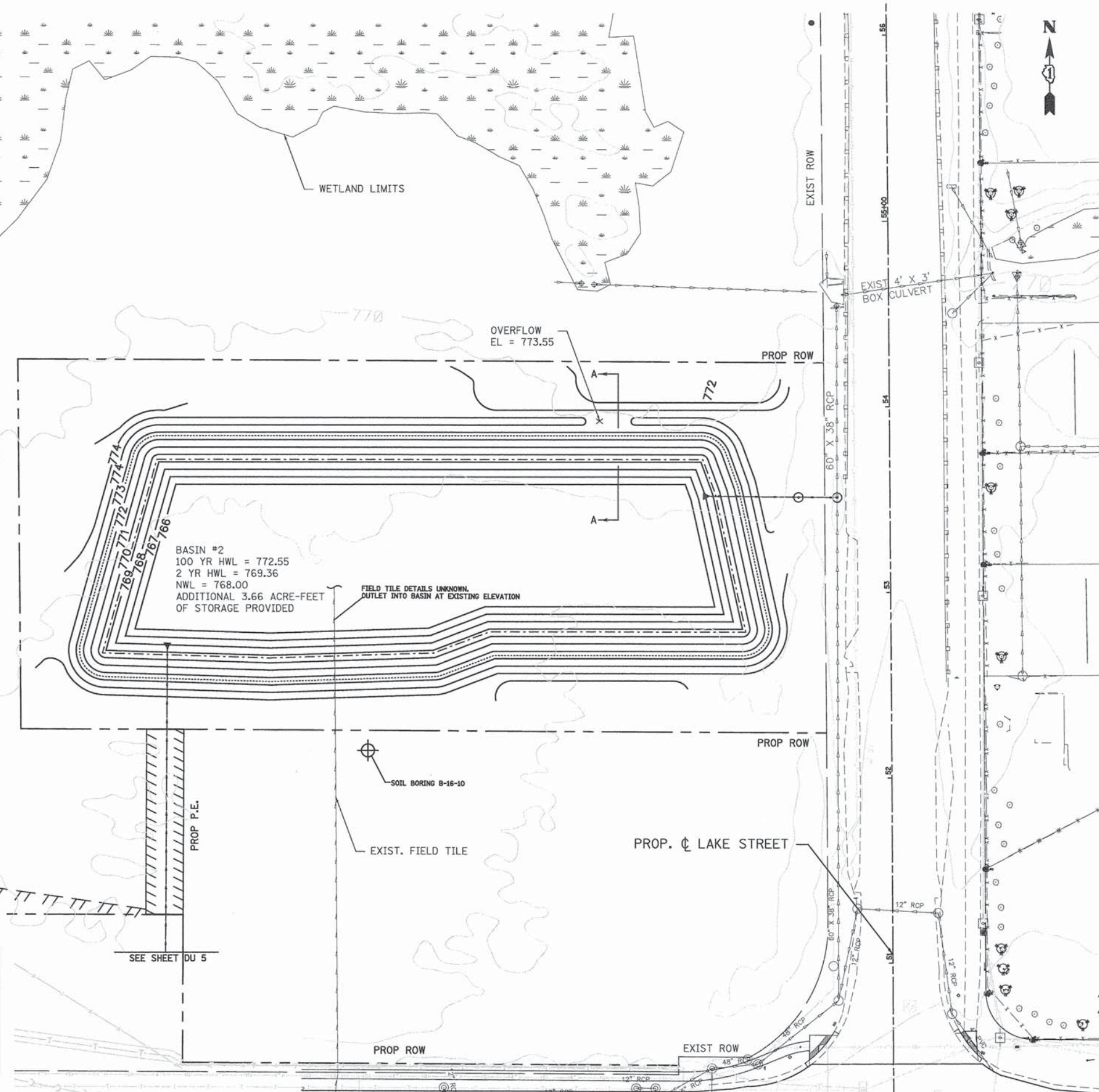
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
187	11-00121-11-BR	LAKE	496	115
61A63				

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

PATRICK ENGINEERING INC.		BORING NUMBER	B-16-10	SHEET	1 OF 1
LOGGED BY		JLJ	CLIENT	Lake County Department of Transportation	
GROUND ELEVATION		779.0	PROJECT & NO.	20806.039	
			LOCATION	Grayslake, IL Washington Street	

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(%)	BLOW COUNTS	PL	Water Content	LL	PL	LL	PL	LL	PL	LL	PL	LL	NOTES & TEST RESULTS
778.0	0.0	0.0-1.2	14" black topsoil														
777.6	1.2	1.2-3.0	Brown and gray silty clay, trace organics, trace medium sand, stiff, moist	SS-1 1.0-2.5 12R	2 3 4												
778.0	3.0	3.0-6.0	Gray fine to medium sand, with silt, loose, wet	SS-2 3.5-6.0 16R	2 2 1												
771.0	8.0	6.0-7.5		SS-3 6.0-7.5 12R	2 4 4												% Sand=75.4 % Gravel=4.7 % Silt=15.4 % Clay=4.5
771.0	8.0	7.5-10.0	Brown silty clay, with medium sand, trace fine gravel, stiff, moist	SS-1 8.5-10.0 16R	3 3 4												
768.0	11.0	10.0-12.5	Gray silty clay, with medium sand, trace fine gravel, stiff, moist	SS-3 11.0-12.5 14R	3 3 5												
768.0	13.0	12.5-15.0	Gray fine to medium sand, medium dense, moist	SS-4 13.5-15.0 16R	3 6 6												
763.0	16.0	15.0-20.0	Gray silty clay, with medium sand, stiff, moist	SS-1 18.5-20.0 16R	4 4 6												
759.0	20.0		End of Boring at 20.0'														

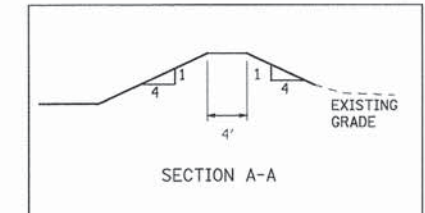
DRILLING CONTRACTOR	Groff Testing Corp.	REMARKS	Borehole backfilled with soil cuttings.	WATER LEVEL (ft.)	11.0'
DRILLING METHOD	2.25" I.D. HSA				10.0'
DRILLING EQUIPMENT	LC-60				
DRILLING STARTED	12/15/10	ENDED	12/15/10		

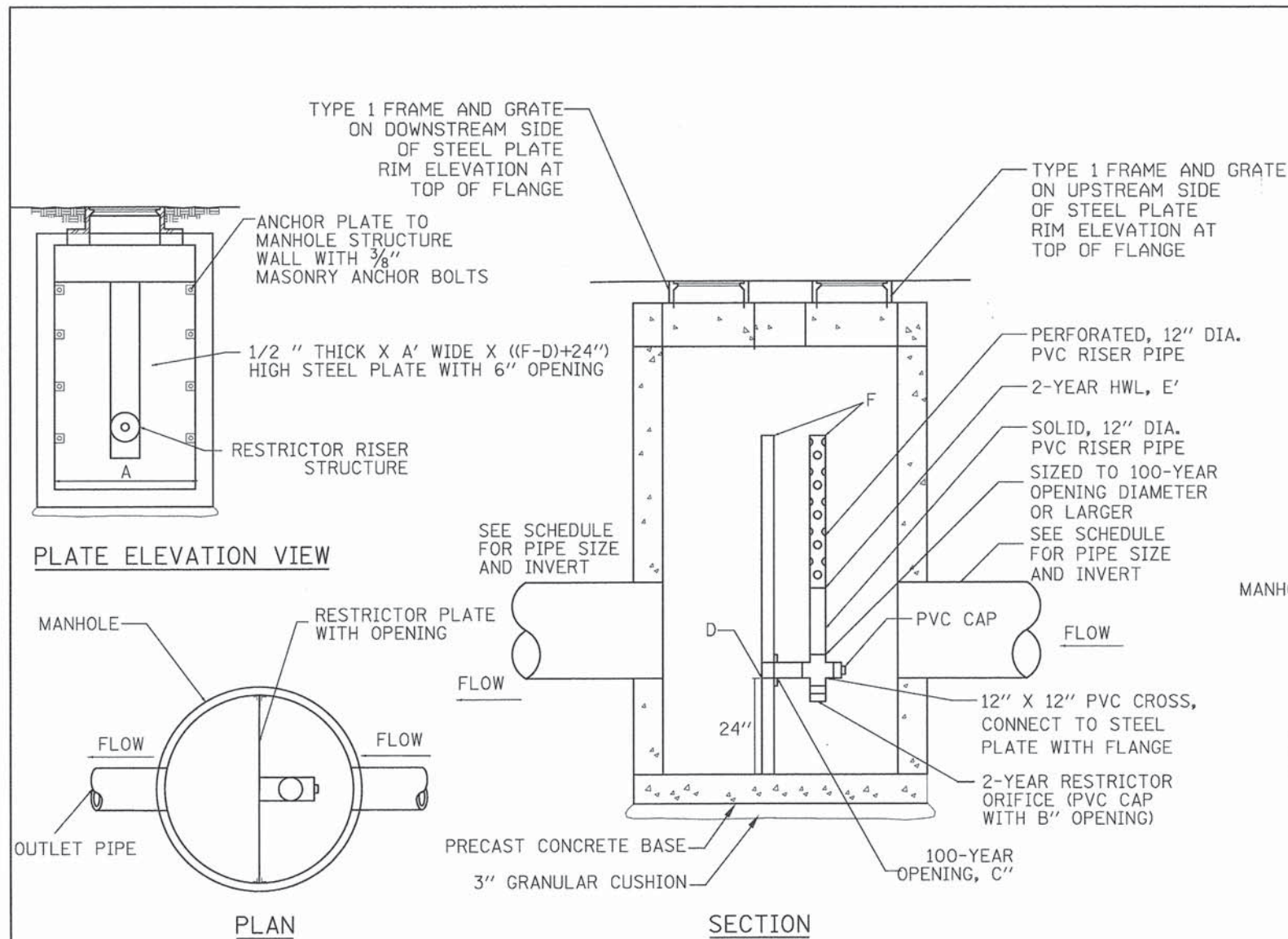


- NOTES:
- SEE SHEET DU-8 FOR DRAINAGE STRUCTURE SCHEDULE
 - SEE SPECIAL PROVISIONS FOR INFORMATION ON CLAY LINING FOR DETENTION BASIN CONSTRUCTION.

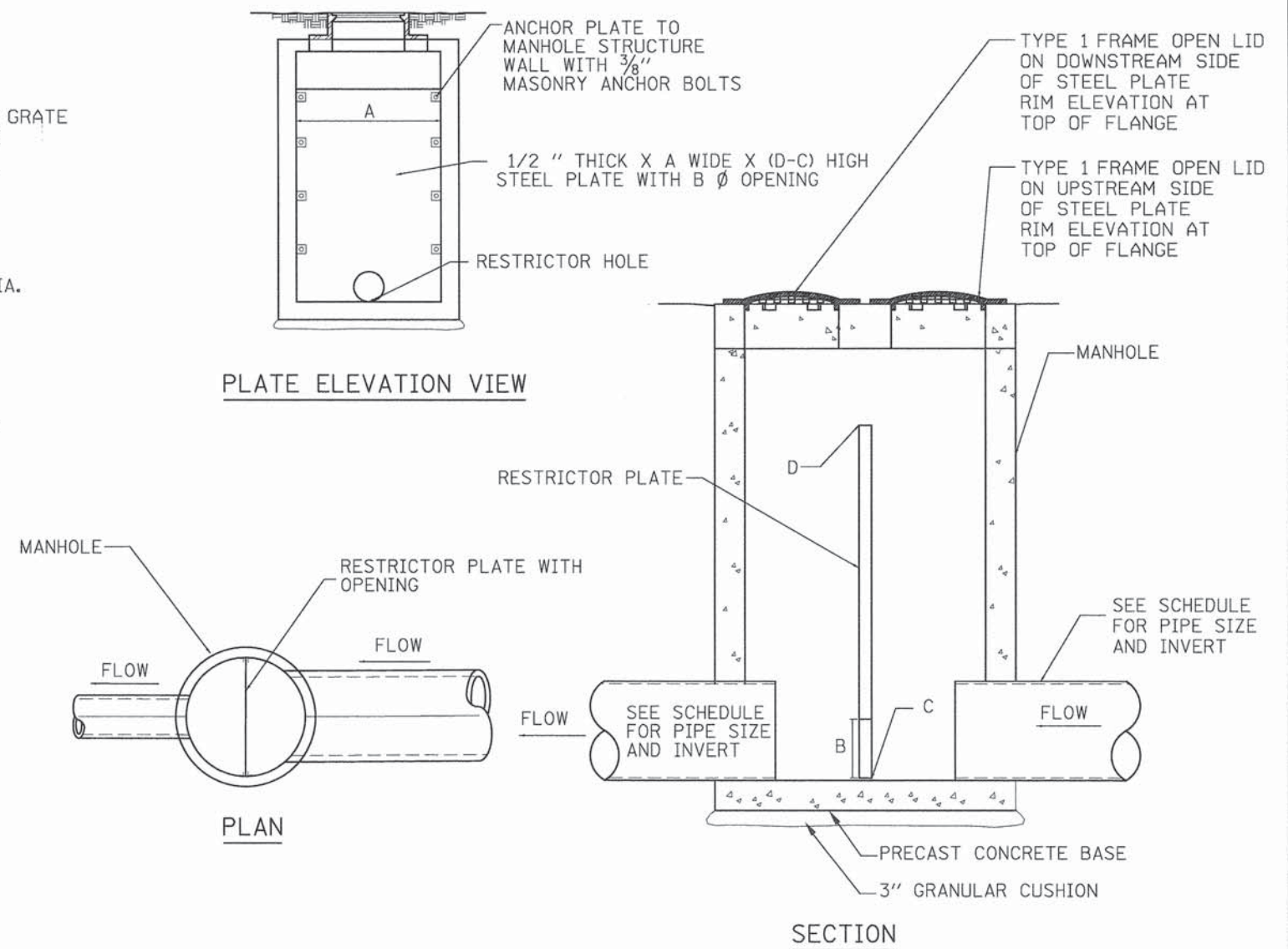
LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE OFFSET AND STATIONING	-10+00 -	-10+00 -
CONTOURS	—881	—881
100-YR DETENTION HIGH WATER LEVEL (HWL)	—	—
2-YR DETENTION HIGH WATER LEVEL (HWL)	—	—





RESTRICTOR MANHOLE STYLE A



RESTRICTOR MANHOLE STYLE B

STRUCTURE No.	RESTRICTOR No.	MANHOLES, SPECIAL, TYPE No.	STATION	OFFSET	MANHOLE WIDTH AT PLATE (FT.) A	2-YR RESTRICTOR DIAMETER (IN.) B	100-YR OPENING DIAMETER (IN.) C	INVERT OF 2-YR OPENING D	INVERT OF 100-YR OPENING D	2-YEAR HWL ELEVATION E	ELEVATION OF TOP OF PLATE / RISER OVERFLOW F	
1-1	1	2	105+25.41	29.39	RT	7	4.00	10.50	778.70	778.70	780.81	782.83
1-5	2	2	105+53.64	29.56	RT	7	4.00	6.30	777.90	777.90	778.82	782.57

STRUCTURE No.	RESTRICTOR No.	MANHOLES, SPECIAL, TYPE No.	STATION	OFFSET	MANHOLE WIDTH AT PLATE (FT.) A	RESTRICTOR DIAMETER (IN.) B	INVERT OF RESTRICTOR C	ELEVATION OF TOP OF PLATE / RISER OVERFLOW D	
9-3	3	2	128+29.94	351.85	LT	5	4.00	767.88	772.55

NOTE: PVC PIPE SHALL BE SDR 35, ASTM D-3034

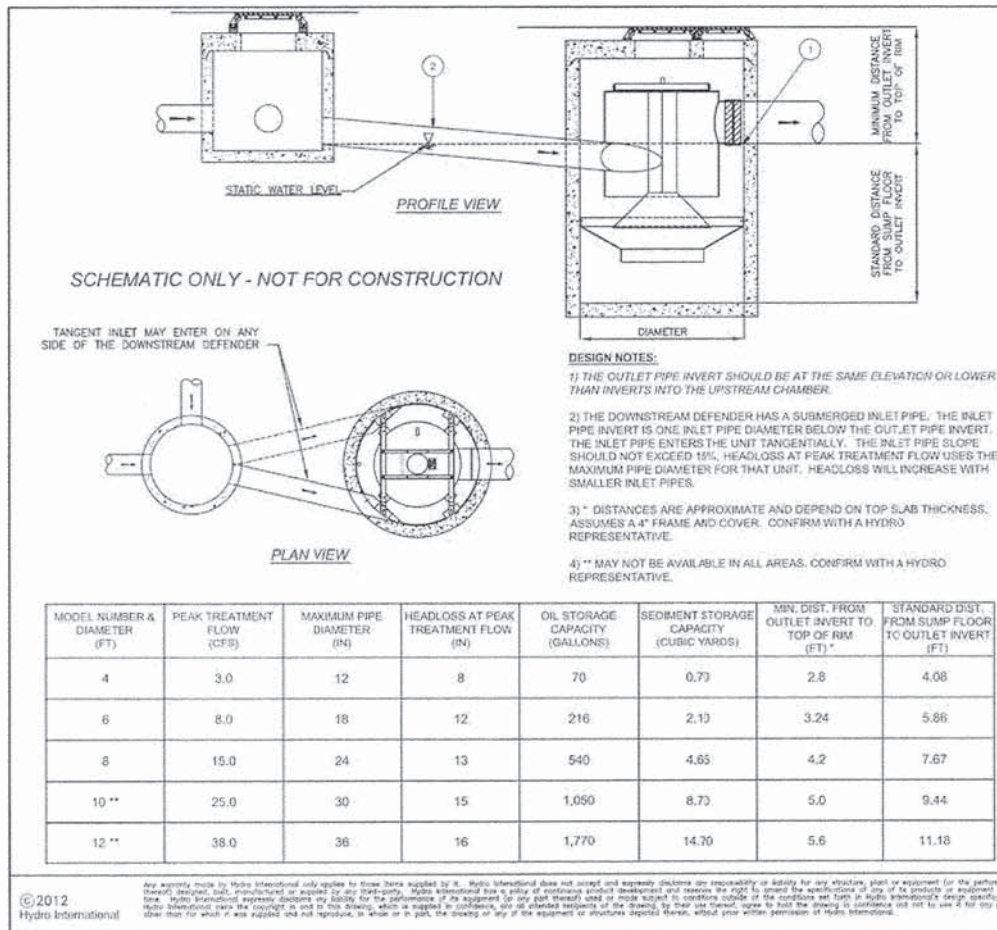
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<p>PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com</p>	USER NAME = tkoeppen@dwg.Lisle	DESIGNED - JWM	REVISED -
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	PLOT DATE = 7/3/2014 12:27:31 AM	DATE - 6/30/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
DRAINAGE DETAILS**

F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 117
SCALE: SHEET NO. DU 19 OF 37 STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT 61A63				



Notes

REVISION HISTORY

REV	BY	DATE	DESCRIPTION
1	JWM	6/7/12	MN RIM

Date 11/1/2011 Scale NTS

Drawn EMH Checked Approved

Title

DOWNSTREAM DEFENDER®

STORM DRAIN FIT

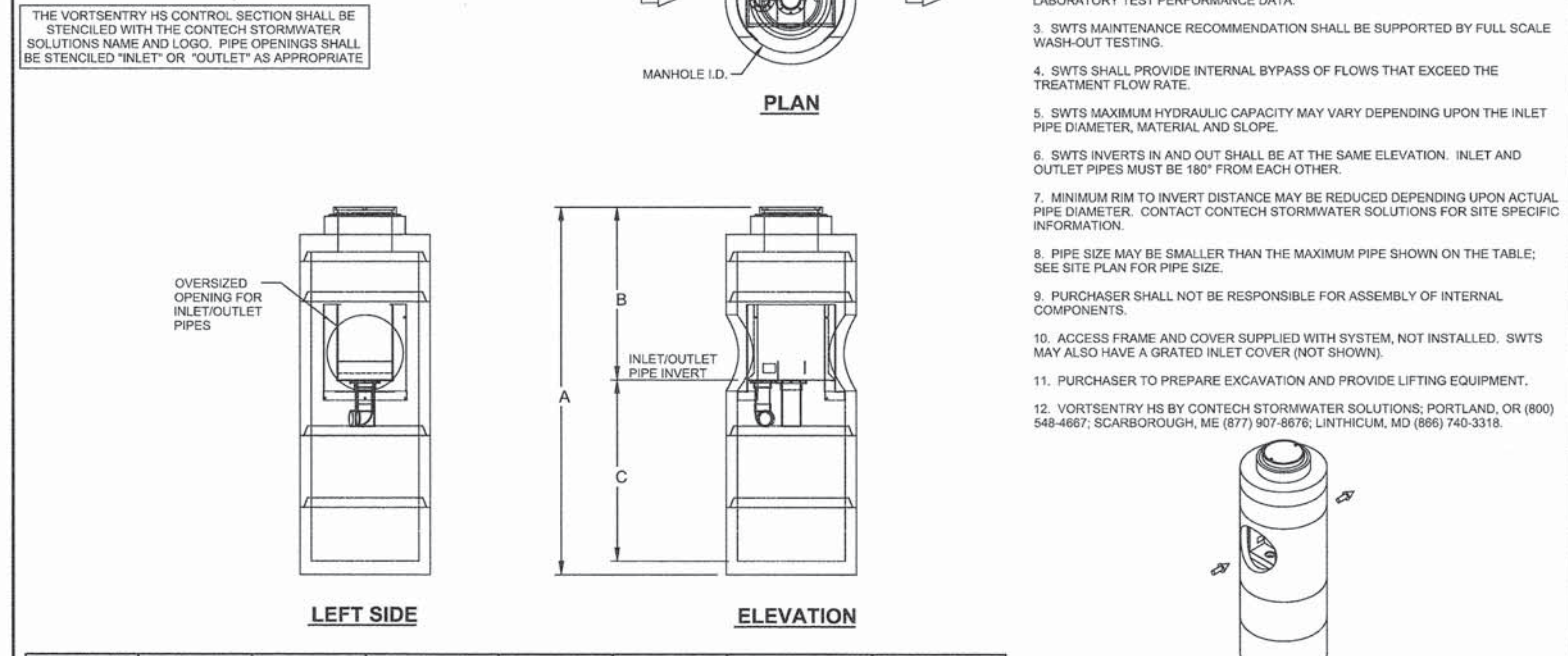
Hydro International

Stormwater Solutions
94 Hutchins Drive
Portland, Maine 04102
Tel: (207) 756-6209
Fax: (207) 756-6212
stormwaterinquiry@hydro-int.com

CAD Ref: SDFIT
Project No.
Drawing No. SDFIT Rev: 1

This CADD file is for the purpose of specifying stormwater treatment equipment to be furnished by CONTECH Stormwater Solutions and may only be transferred to other documents exactly as provided by CONTECH Stormwater Solutions. Title block information, excluding the CONTECH Stormwater Solutions logo and the VortSentry HS Stormwater Treatment System designation and patent number, may be deleted if necessary. Revisions to any part of this CADD file without prior coordination with CONTECH Stormwater Solutions shall be considered unauthorized use of proprietary information.

THE VORTSENTRY HS CONTROL SECTION SHALL BE STENCILED WITH THE CONTECH STORMWATER SOLUTIONS NAME AND LOGO. PIPE OPENINGS SHALL BE STENCILED "INLET" OR "OUTLET" AS APPROPRIATE



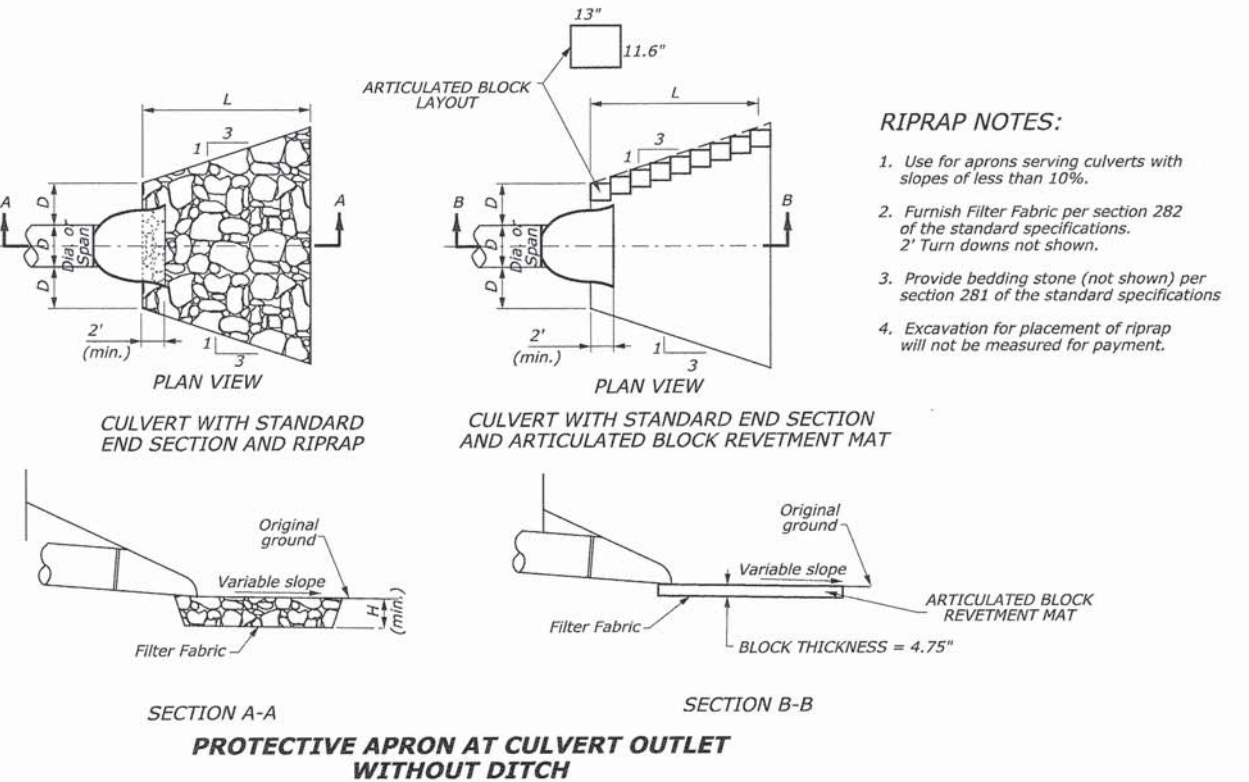
VortSentry Model	Manhole Diameter (ID)		Total Treatment Flow Rate		Typical Total Distance Rim to Outside Bottom		Typical Distance Rim to Invert		Typical Depth Below Invert (Inside)		Approximate Minimum Distance Rim to Invert (See Note 7)		Maximum Pipe Diameter (ID)	
	ft	mm	cfs	l/s	ft	m	ft	m	ft	mm	ft	m		
HS36	3	900	0.55	15.6	10.16	3.10	4.08	1.24	5.5833	1702	3.00	0.91	18	450
HS48	4	1200	1.20	34.0	13.25	4.04	6.00	1.83	6.75	2057	4.00	1.22	24	600
HS60	5	1500	2.20	62.3	16.38	4.99	6.50	1.98	9.21	2807	4.82	1.47	30	750
HS72	6	1800	3.70	104.8	16.56	5.05	6.75	2.06	9.15	2788	5.59	1.70	36	900
HS84	7	2100	5.60	158.6	18.85	5.75	7.75	2.36	10.35	3156	4.77	1.45	42	1050
HS96	8	2400	8.10	229.4	20.87	6.36	8.50	2.59	11.54	3518	6.91	2.11	48	1200

FOR INFORMATIONAL PURPOSES ONLY - NOT INTENDED FOR CONSTRUCTION

TYPICAL DETAIL WITH SIZING TABLE STORMWATER TREATMENT SYSTEM VORTSENTRY[®] HS US PATENT PENDING

CONTECH STORMWATER SOLUTIONS

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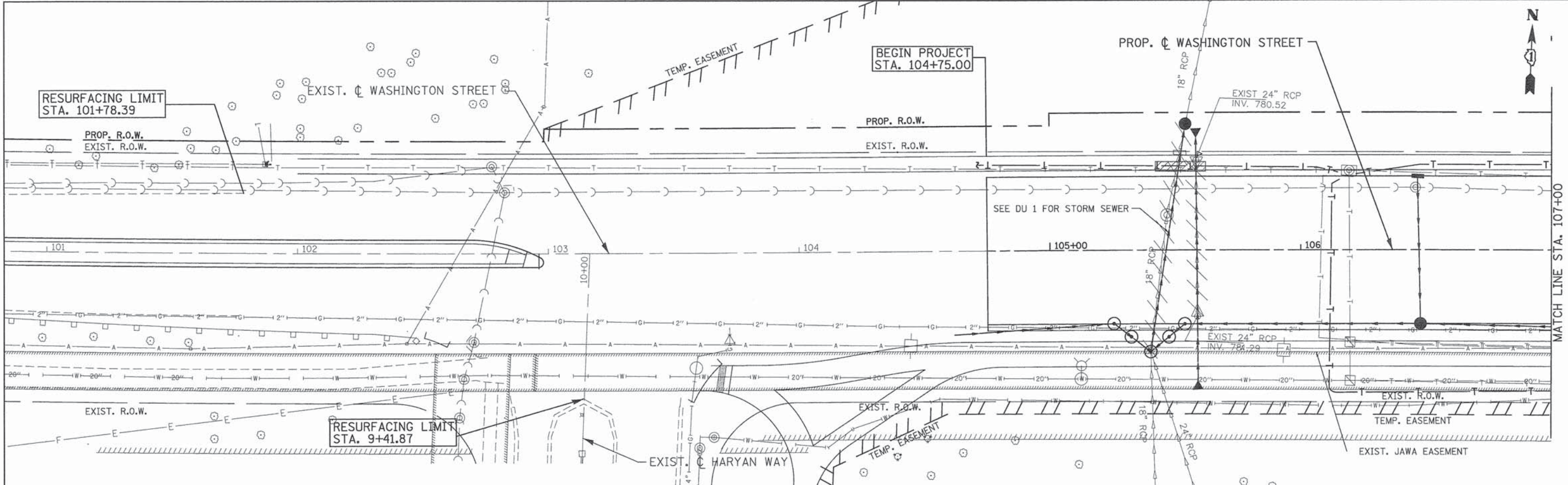


OUTLET WITHOUT DITCH PROTECTIVE APRON DIMENSIONS AND ESTIMATED QUANTITIES

	CULVERT SIZE D (inches)	RIPRAP CLASS	LENGTH OF APRON L (feet)	DEPTH OF RIPRAP APRON H (feet)	ESTIMATED RIPRAP QUANTITY (SY)	ESTIMATED GEOTEXTILE QUANTITY (SY)
WITH END SECTION	18	RR4	7	1.33	6	6
	24	RR4	9	1.33	9	9
	30	RR5	13.5	1.83	18	18
	36	RR5	16	1.83	26	26
	42	RR6	22	2.17	44	44
	48	RR6	25	2.17	57	57

PLAN SURVEYED BY DATE
 ALIGNMENT CHECKED BY
 RT. OF WAY CHECKED BY
 NOTE BOOK NO.
 ROAD FILE NAME

PROFILE SURVEYED BY DATE
 GRADES CHECKED BY
 B.M. NOTED BY
 STRUCTURE NOTATIONS CHFD

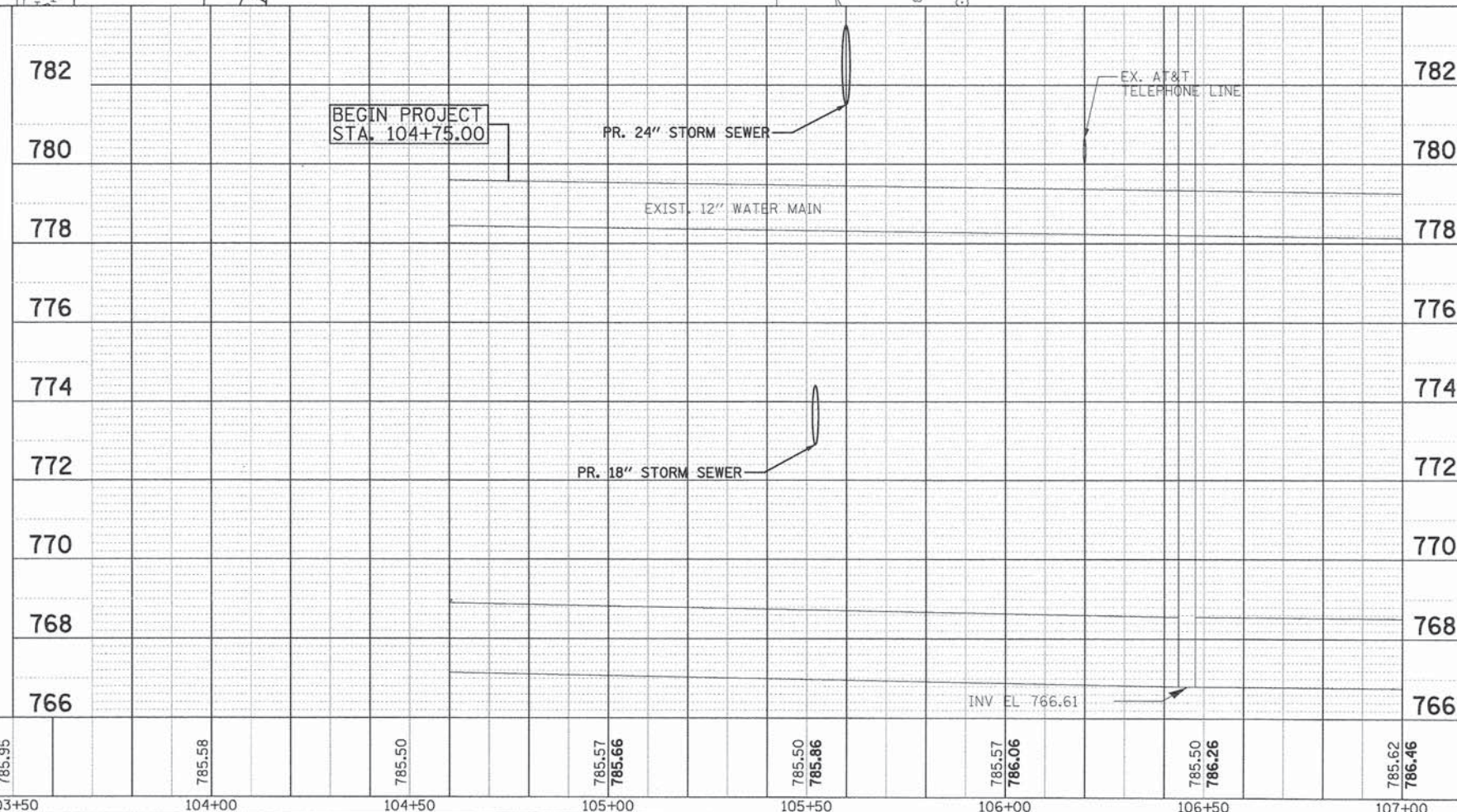


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED	BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	10+00	10+00	RIGHT OF WAY LINE	---	---
STORM SEWER	—○—	—●—	TEMPORARY EASEMENT	///	///
CATCH BASIN	○	●	PERMANENT EASEMENT	////	////
MANHOLE	○	○	GAS LINE	—(—	—(—
FLARED END SECTION	△	△	TELEPHONE LINE	—T—	—T—
OPEN LID MANHOLE/INLET	□	□	AERIAL LINE	—A—	—A—
SWALE	—+—	—+—	SANITARY SEWER	—<<—	—<<—
WETLAND	[Wetland Symbol]	[Wetland Symbol]	CABLE TELEVISION	—CTV—	—CTV—
DETENTION HIGH WATER LEVEL (HWL)	---	---	WATER MAIN	—W—	—W—
RIPRAP	[Riprap Symbol]	[Riprap Symbol]	FIBER OPTIC	—FO—	—FO—

NOTES:

- UTILITY SHEETS SHOW DESIGN FOR GRAYSLAKE SANITARY SEWER (8"), LAKE COUNTY PUBLIC WORKS SANITARY SEWER (21"), GRAYSLAKE WATER MAIN, AND JAWA WATER MAIN.
- REFER TO SHEETS DU 31 TO DU 35 FOR JAWA WATER MAIN PROFILE.
- SANITARY SEWERS AND WATER MAIN TO BE ABANDONED SHALL BE FILLED WITH FLOWABLE FILL.
- OTHER EXISTING AND PROPOSED UTILITIES ARE FOR REFERENCE ONLY AND DESIGN DETAILS ARE PROVIDED BY OTHERS.
- NO PROPOSED WATER MAIN OR SANITARY SEWER THIS SHEET.



STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION
101+00	789.16	101+50	786.51	102+00	787.86	102+50	787.21	103+00	786.56	103+50	785.95	104+00	785.58	104+50	785.50

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 4970 VARSITY DRIVE
 LISLE, IL 60532
 patrickengineering.com

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DESIGNED - JWM
 DRAWN - JWM
 CHECKED - EYC
 DATE - 6/30/2014

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

**WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
 UTILITY PLAN AND PROFILE**

SCALE: 1"=20' SHEET NO. DU 21 OF 37 STA. BOP TO STA. 107+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
187	11-00121-11-BR	LAKE	496	119
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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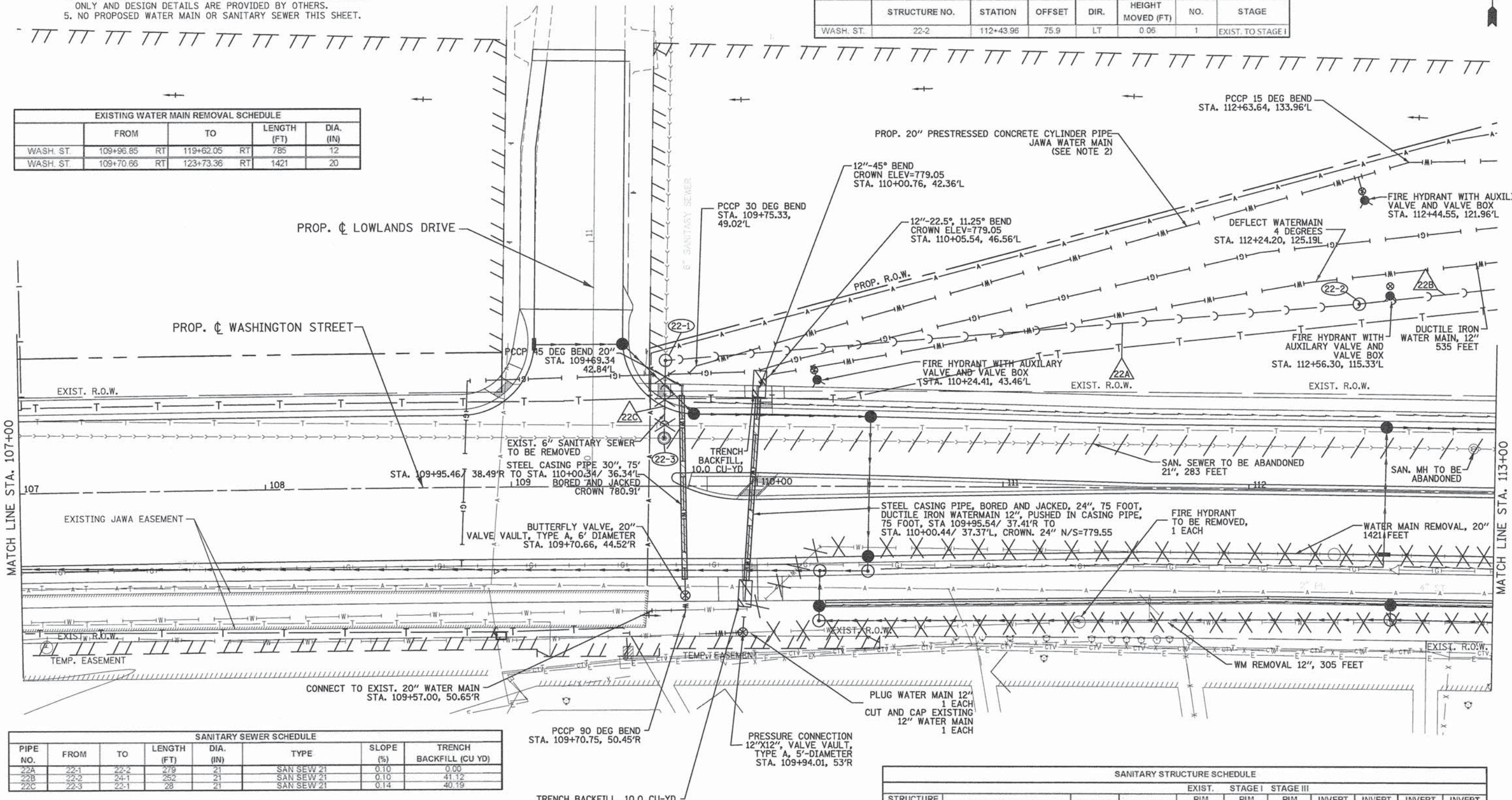
NOTES:

- UTILITY SHEETS SHOW DESIGN FOR GRAYSLAKE SANITARY SEWER (8"), LAKE COUNTY PUBLIC WORKS SANITARY SEWER (21"), GRAYSLAKE WATER MAIN, AND JAWA WATER MAIN.
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- NO PROPOSED WATER MAIN OR SANITARY SEWER THIS SHEET.

EXISTING SANITARY SEWER ABANDONMENT SCHEDULE				
	FROM	TO	LENGTH (FT)	DIA. (IN)
WASH. ST.	110+08.62 LT	112+91.21 LT	283	21
WASH. ST.	112+91.21 LT	116+79.98 LT	389	21

SAN STRUCTURE ADJUSTMENT SCHEDULE							
	STRUCTURE NO.	STATION	OFFSET	DIR.	HEIGHT MOVED (FT)	NO.	STAGE
WASH. ST.	22-2	112+43.96	75.9	LT	0.05	1	EXIST. TO STAGE I

EXISTING WATER MAIN REMOVAL SCHEDULE				
	FROM	TO	LENGTH (FT)	DIA. (IN)
WASH. ST.	109+96.85 RT	119+62.05 RT	785	12
WASH. ST.	109+70.66 RT	123+73.36 RT	1421	20



SANITARY SEWER SCHEDULE							
PIPE NO.	FROM	TO	LENGTH (FT)	DIA. (IN)	TYPE	SLOPE (%)	TRENCH BACKFILL (CU YD)
22A	22-1	22-2	279	21	SAN SEW 21	0.10	0.00
22B	22-2	24-1	252	21	SAN SEW 21	0.10	41.12
22C	22-3	22-1	28	21	SAN SEW 21	0.14	40.19

SANITARY STRUCTURE SCHEDULE										
STRUCTURE NO.	STRUCTURE TYPE	STATION	OFFSET	EXIST. STAGE I STAGE III						
				RIM ELEV.	RIM ELEV.	RIM ELEV.	INVERT (N)	INVERT (S)	INVERT (W)	INVERT (E)
22-1	SAN MH 5 DIA	110+09.14	55.06 LT	785.37	785.37	785.37	765.52	765.52	766.52	766.52
22-2	SAN MH 5 DIA	112+43.96	75.87 LT	785.62	785.58	785.62	766.29	766.29	766.29	766.29
22-3	SAN MH 5 DIA	110+08.62	18.99 LT	784.85	784.85	784.85	766.56			

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
UTILITY PLAN AND PROFILE**

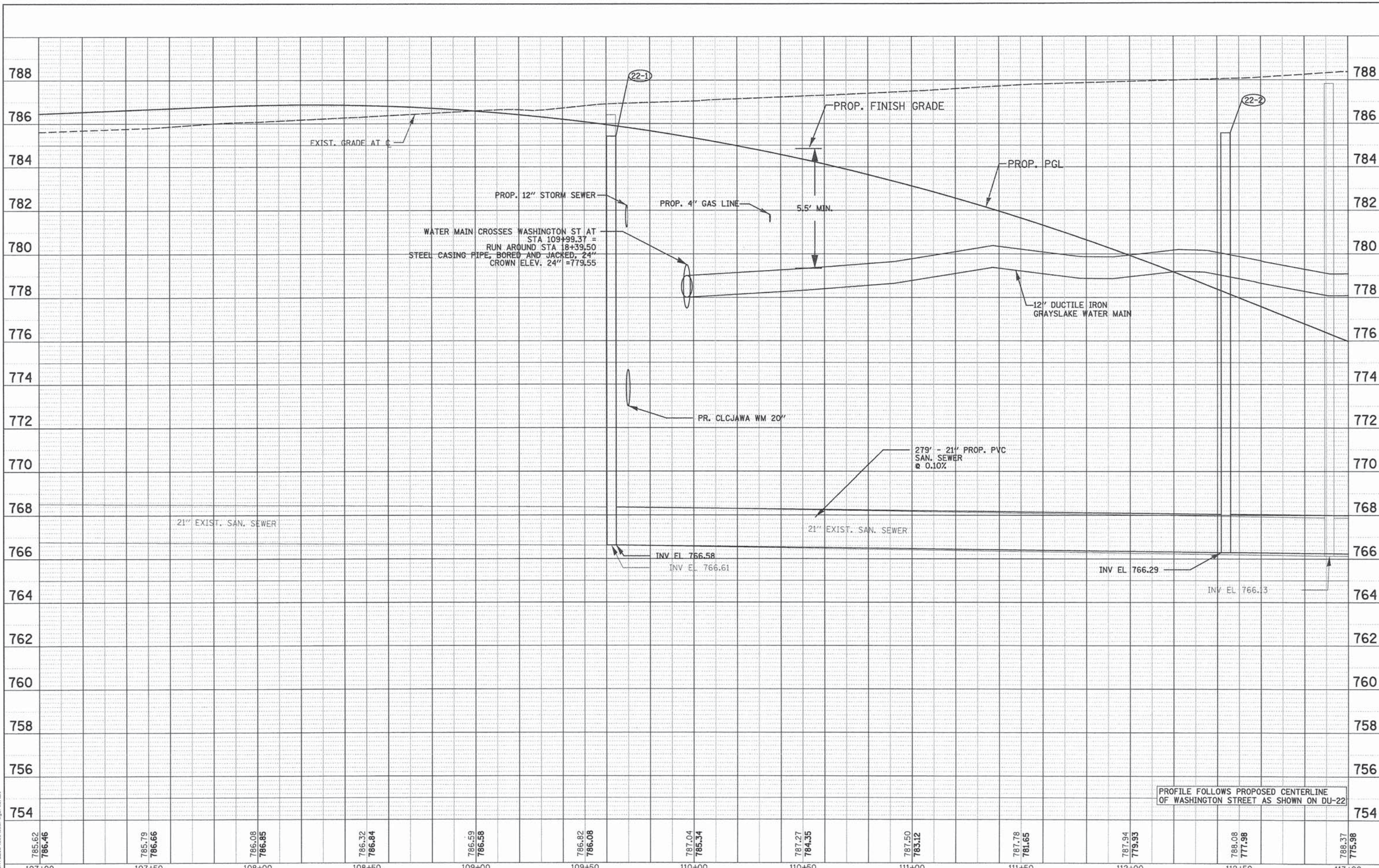
SCALE: 1"=20' SHEET NO. DU 22 OF 37 STA. 107+00 TO STA. 113+00

F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 120
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

61A63

DATE	
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DATE	
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PROFILE FOLLOWS PROPOSED CENTERLINE OF WASHINGTON STREET AS SHOWN ON DU-22

107+00	107+50	108+00	108+50	109+00	109+50	110+00	110+50	111+00	111+50	112+00	112+50	113+00																																												
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PATRICK ENGINEERING PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME = tkoeppen@adv.lisle	DESIGNED - JWM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET UTILITY PLAN AND PROFILE				F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496		SHEET NO. 121																																										
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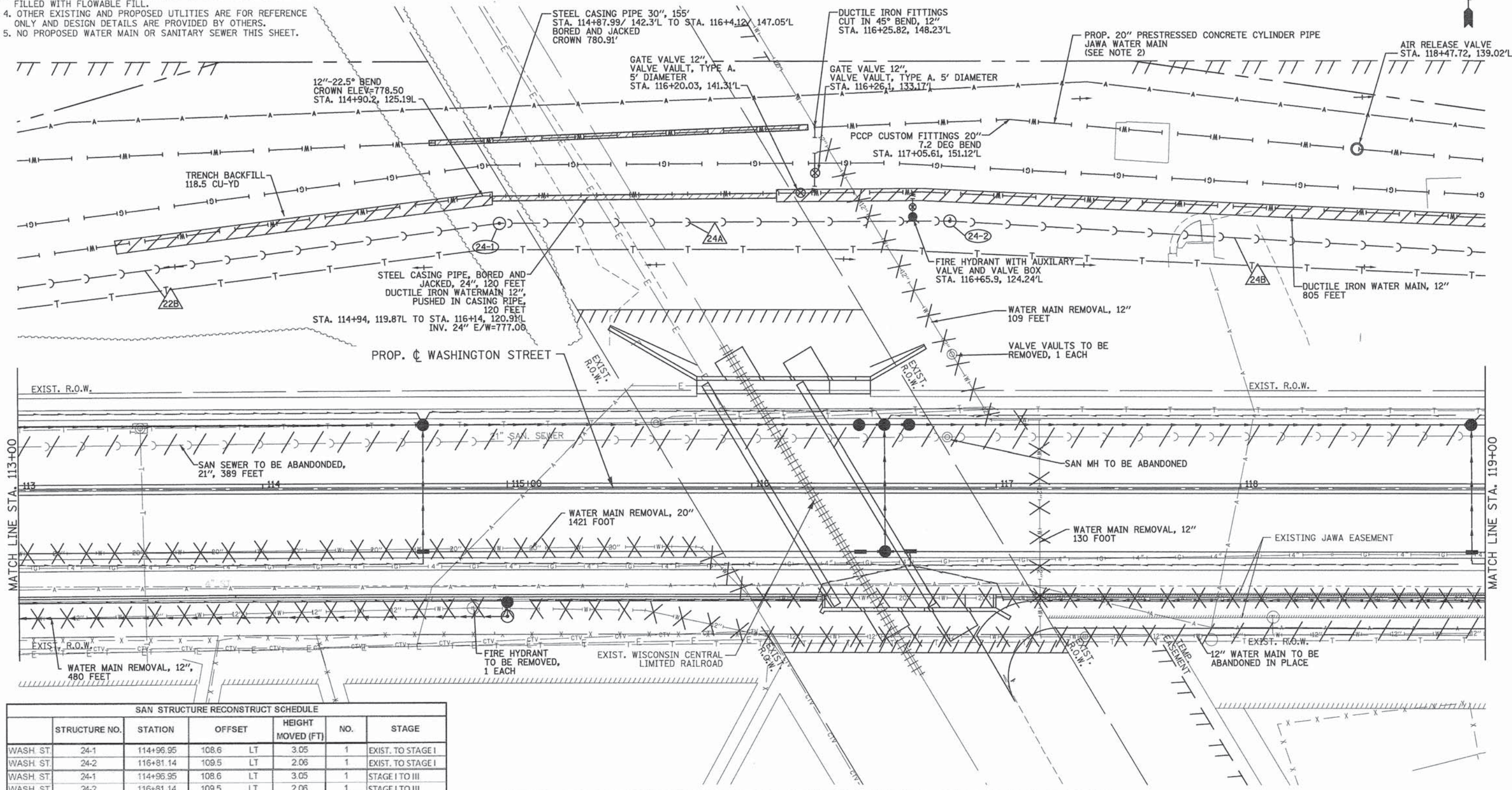
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NOTES:

- UTILITY SHEETS SHOW DESIGN FOR GRAYSLAKE SANITARY SEWER (8"), LAKE COUNTY PUBLIC WORKS SANITARY SEWER (21"), GRAYSLAKE WATER MAIN, AND JAWA WATER MAIN.
- REFER TO SHEETS DU 31 TO DU 35 FOR JAWA WATER MAIN PROFILE AND DETAILS.
- SANITARY SEWERS AND WATER MAIN TO BE ABANDONED SHALL BE FILLED WITH FLOWABLE FILL.
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- NO PROPOSED WATER MAIN OR SANITARY SEWER THIS SHEET.

EXISTING WATER MAIN ABANDONMENT SCHEDULE				
	FROM	TO	LENGTH (FT)	DIA. (IN)
WASH ST.	117+71.23 RT	119+65.93 RT	195	12

EXISTING WATER MAIN REMOVAL SCHEDULE				
	FROM	TO	LENGTH (FT)	DIA. (IN)
WASH ST.	116+31.70 LT	117+17.98 RT	130	12



SAN STRUCTURE RECONSTRUCT SCHEDULE						
	STRUCTURE NO.	STATION	OFFSET	HEIGHT MOVED (FT)	NO.	STAGE
WASH ST.	24-1	114+96.95	108.6 LT	3.05	1	EXIST. TO STAGE I
WASH ST.	24-2	116+81.14	109.5 LT	2.06	1	EXIST. TO STAGE I
WASH ST.	24-1	114+96.95	108.6 LT	3.05	1	STAGE I TO III
WASH ST.	24-2	116+81.14	109.5 LT	2.06	1	STAGE I TO III

SANITARY SEWER SCHEDULE							
PIPE NO.	FROM	TO	LENGTH (FT)	DIA. (IN)	TYPE	SLOPE (%)	TRENCH BACKFILL (CU YD)
24A	24-1	24-2	181	21	SAN SEW 21	0.10	588.77
24B	24-2	26-1	360	21	SAN SEW 21	0.10	130.14

SANITARY STRUCTURE SCHEDULE											
STRUCTURE NO.	STRUCTURE TYPE	STATION	OFFSET	EXIST.		STAGE I		STAGE III		INVERT (W)	INVERT (E)
				RIM ELEV.	INVERT (N)	RIM ELEV.	INVERT (S)	RIM ELEV.	INVERT (E)		
24-1	SAN MH 5 DIA	114+96.95	108.50 LT	784.94	787.99	787.99		786.04	786.04		
24-2	SAN MH 5 DIA	116+81.14	109.50 LT	786.64	788.70	788.70		785.85	785.85		

EXISTING SANITARY SEWER ABANDONMENT SCHEDULE				
	FROM	TO	LENGTH (FT)	DIA. (IN)
WASH ST.	116+79.98 LT	120+70.16 LT	390	21

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
UTILITY PLAN AND PROFILE**

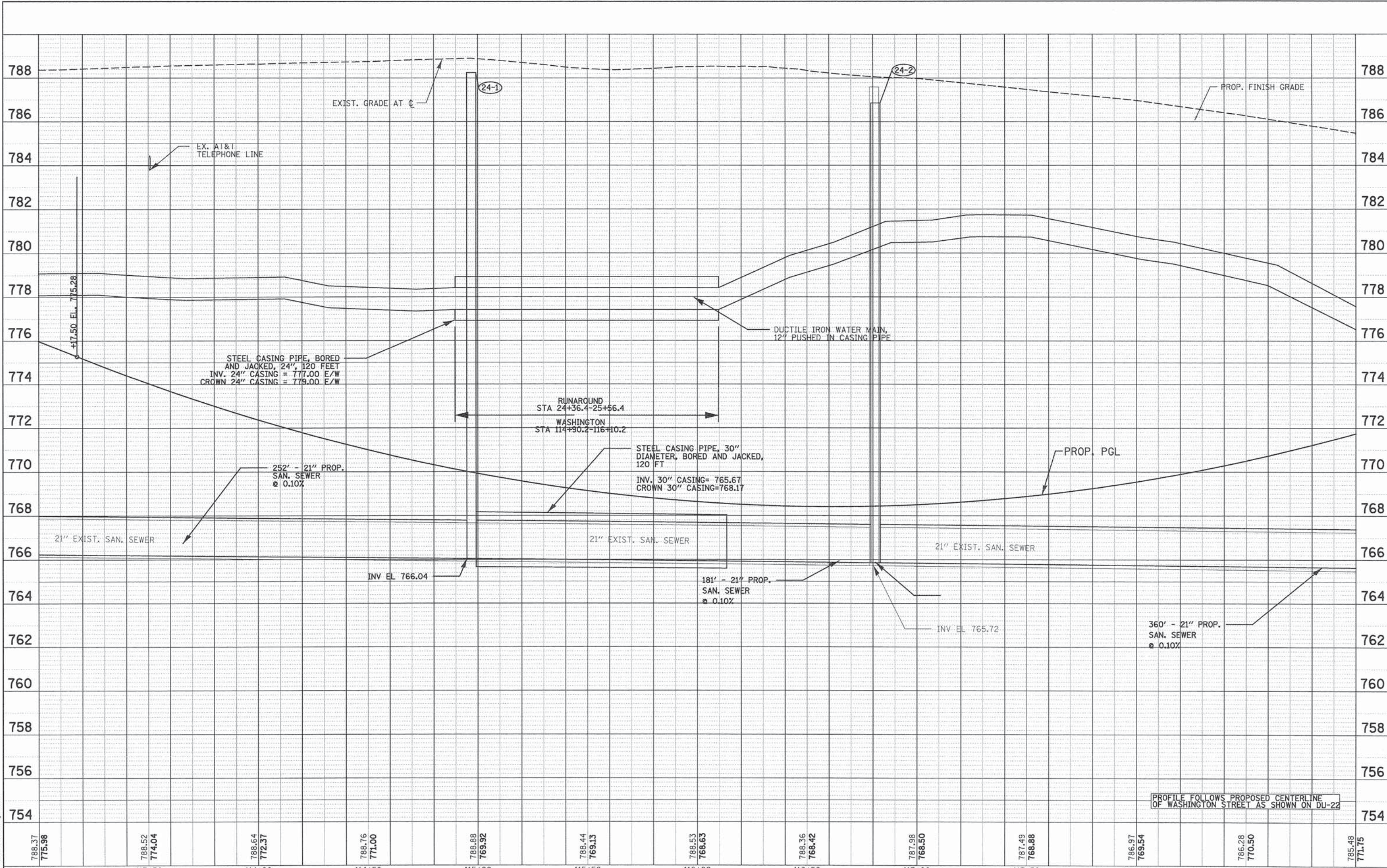
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F.A. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 122
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

61A63

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PROFILE	
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788.37	775.98	788.52	774.04	788.64	772.37	788.76	771.00	788.88	769.92	788.44	769.13	788.53	768.63	788.36	768.42	787.98	768.50	787.49	768.88	786.97	769.54	786.28	770.50	785.48	771.75
113+00	113+50	114+00	114+50	115+00	115+50	116+00	116+50	117+00	117+50	118+00	118+50	119+00													

PATRICK ENGINEERING INC.
4970 VARSITY DRIVE
LISLE, IL 60532
patrickengineering.com

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
UTILITY PLAN AND PROFILE**

SCALE: 1"=20' SHEET NO. DU 25 OF 37 STA. 113+00 TO STA. 119+00

F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 123
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			61A63	

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NOTES:

- UTILITY SHEETS SHOW DESIGN FOR GRAYSLAKE SANITARY SEWER (8"), LAKE COUNTY PUBLIC WORKS SANITARY SEWER (21"), GRAYSLAKE WATER MAIN, AND JAWA WATER MAIN.
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FROM	TO	LENGTH (FT)	DIA. (IN)
WASH. ST. 120+70.16 LT	124+55.49 LT	385	21

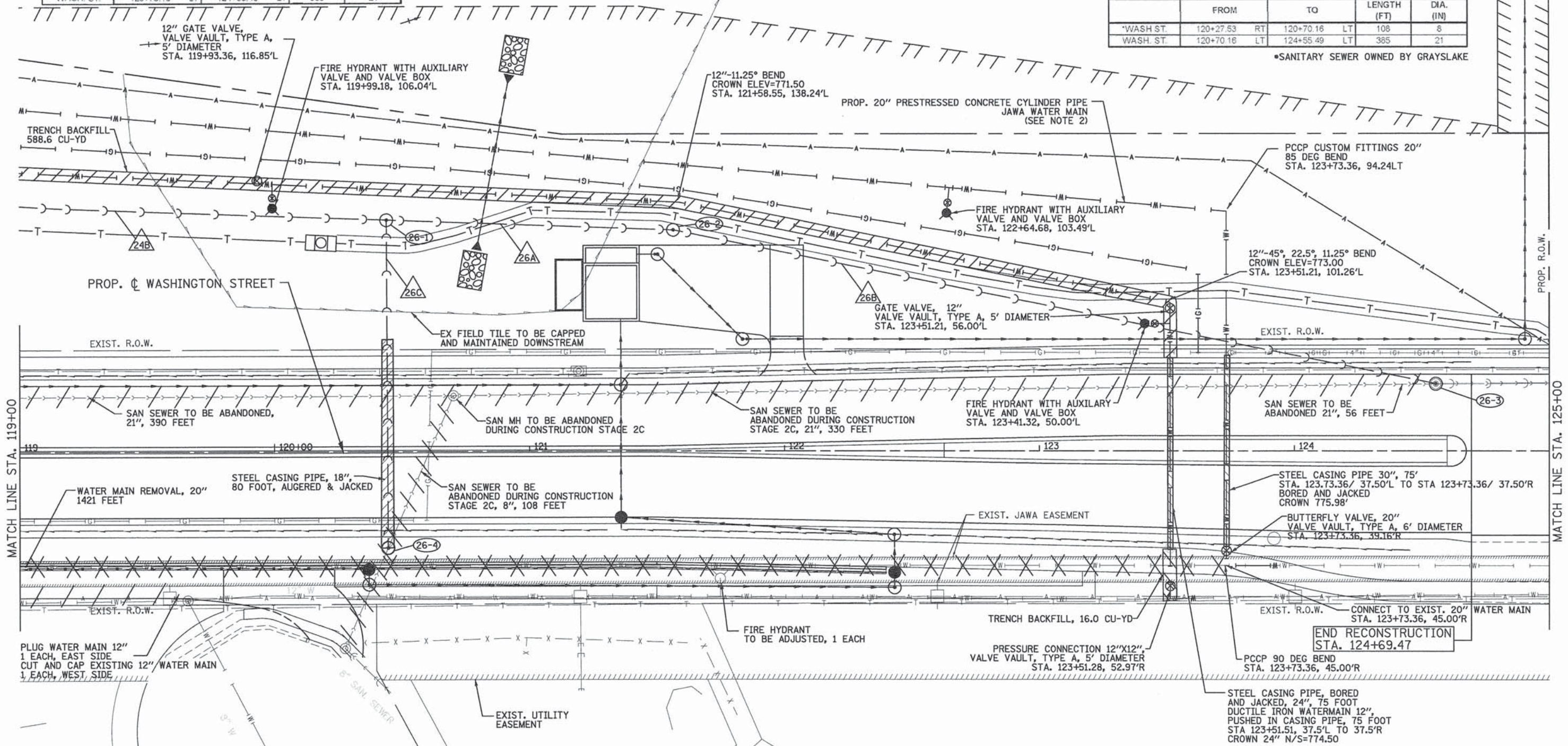
STRUCTURE NO.	STATION	OFFSET	DIR.	HEIGHT MOVED (FT)	NO.	STAGE
WASH. ST. 26-1	120+43.94	91.1	LT	1.81	1	EXIST. TO STAGE I
WASH. ST. 26-3	124+55.49	26.3	LT	0.26	1	STAGE I TO III

STRUCTURE NO.	STRUCTURE TYPE	STATION	OFFSET	EXIST.				STAGE I				STAGE III			
				RIM ELEV.	RIM ELEV.	RIM ELEV.	RIM ELEV.	INVERT (N)	INVERT (S)	INVERT (W)	INVERT (E)	INVERT (N)	INVERT (S)	INVERT (W)	INVERT (E)
26-1	SAN MH 5 DIA	120+43.94	91.07 LT	779.25	781.06	779.25		766.25	765.49	765.49					
26-2	SAN MH 5 DIA	121+56.43	85.95 LT	777.82	780.11	782.31			765.38	765.38					
26-3	SAN MH 5 DIA	124+55.49	25.27 LT	778.92	779.20	779.20			765.02	765.02					
26-4	SAN MH 4 DIA	120+44.52	37.85 RT	782.97	782.97	775.76		768.09	768.09	768.09					

*SANITARY SEWER OWNED BY GRAYSLAKE

FROM	TO	LENGTH (FT)	DIA. (IN)
*WASH. ST. 120+27.53 RT	120+70.16 LT	108	8
WASH. ST. 120+70.16 LT	124+55.49 LT	385	21

*SANITARY SEWER OWNED BY GRAYSLAKE



PIPE NO.	FROM	TO	LENGTH (FT)	DIA. (IN)	TYPE	SLOPE (%)	TRENCH BACKFILL (CU YD)
26A	26-1	26-2	109	21	SAN SEW 21	0.10	0.00
26B	26-2	26-3	302	21	SAN SEW 21	0.12	340.90
26C	26-4	26-1	125	8	SAN SEW 8	1.47	161.43

*SANITARY SEWER OWNED BY GRAYSLAKE

STRUCTURE NO.	STATION	OFFSET	HEIGHT MOVED (FT)	NO.	STAGE
WASH. ST. 26-2	121+56.43	87.0	2.49	1	EXIST. TO STAGE I
WASH. ST. 26-2	121+56.43	87.0	2.2	1	STAGE I TO III



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4970 VARSITY DRIVE
LISLE, IL 60532
patrickengineering.com

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DRAWN - JWM
CHECKED - EYC
DATE - 6/30/2014

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
UTILITY PLAN AND PROFILE

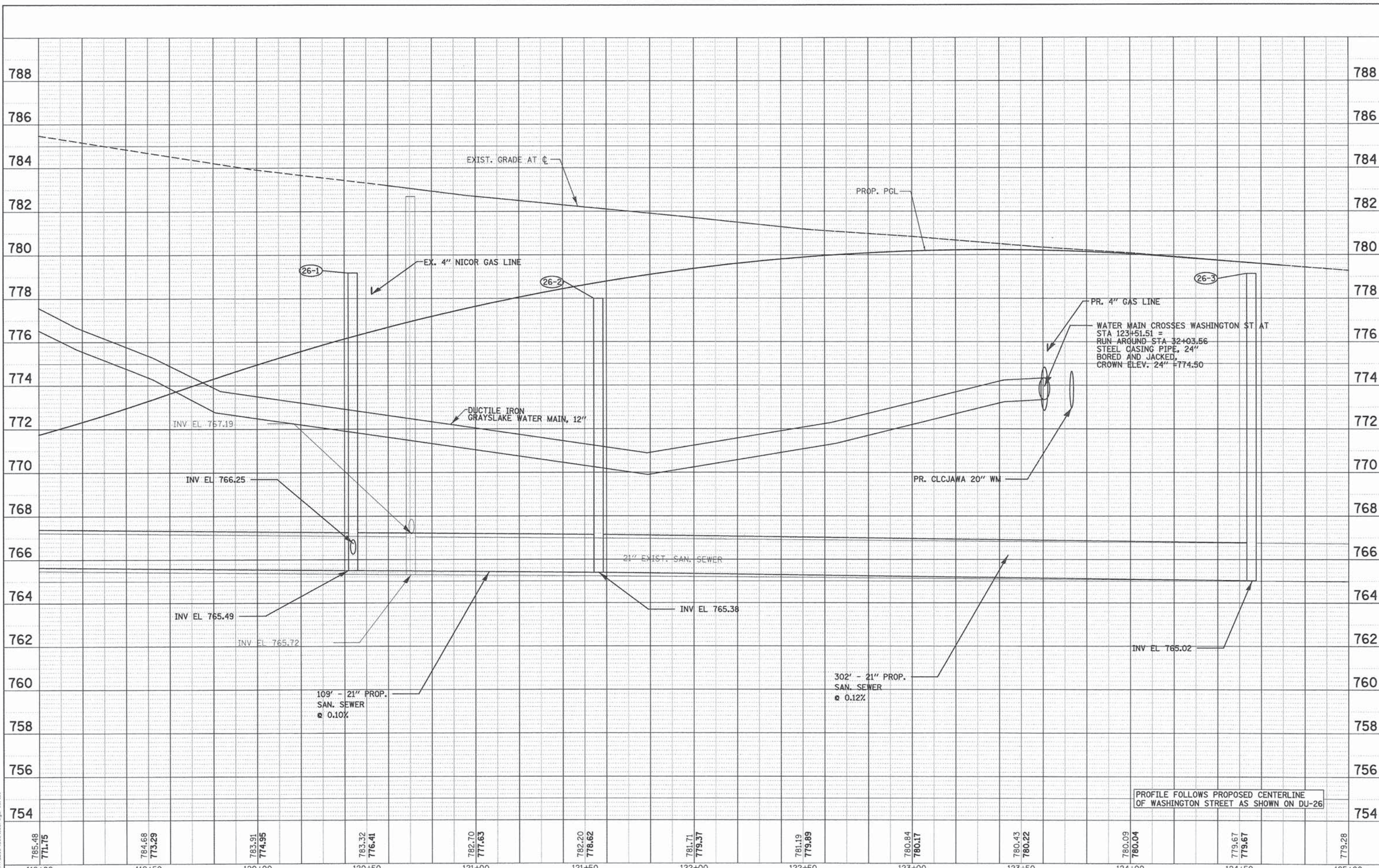
SCALE: 1"=20' SHEET NO. DU 26 OF 37 STA. 119+00 TO STA. 125+00

F.A.U. RTE. 187 SECTION 11-00121-11-BR COUNTY LAKE TOTAL SHEETS 496 SHEET NO. 124
ILLINOIS FED. AID PROJECT 61A63

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REVIEWED	
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ALIGNED	
CHECKED	
NO. OF WAY	
NO. OF FILE	
NO.	



PROFILE FOLLOWS PROPOSED CENTERLINE OF WASHINGTON STREET AS SHOWN ON DU-26

785.48 771.75	784.68 773.29	783.91 774.95	783.32 776.41	782.70 777.63	782.20 778.62	781.71 779.37	781.19 779.89	780.84 780.17	780.43 780.22	780.09 780.04	779.67 779.67	779.28
119+00	119+50	120+00	120+50	121+00	121+50	122+00	122+50	123+00	123+50	124+00	124+50	125+00

PATRICK ENGINEERING
 PATRICK ENGINEERING INC.
 4970 VARSITY DRIVE
 LUSLE, IL 60532
 patrickengineering.com

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 DRAWN - JWM
 CHECKED - EYC
 DATE - 6/30/2014

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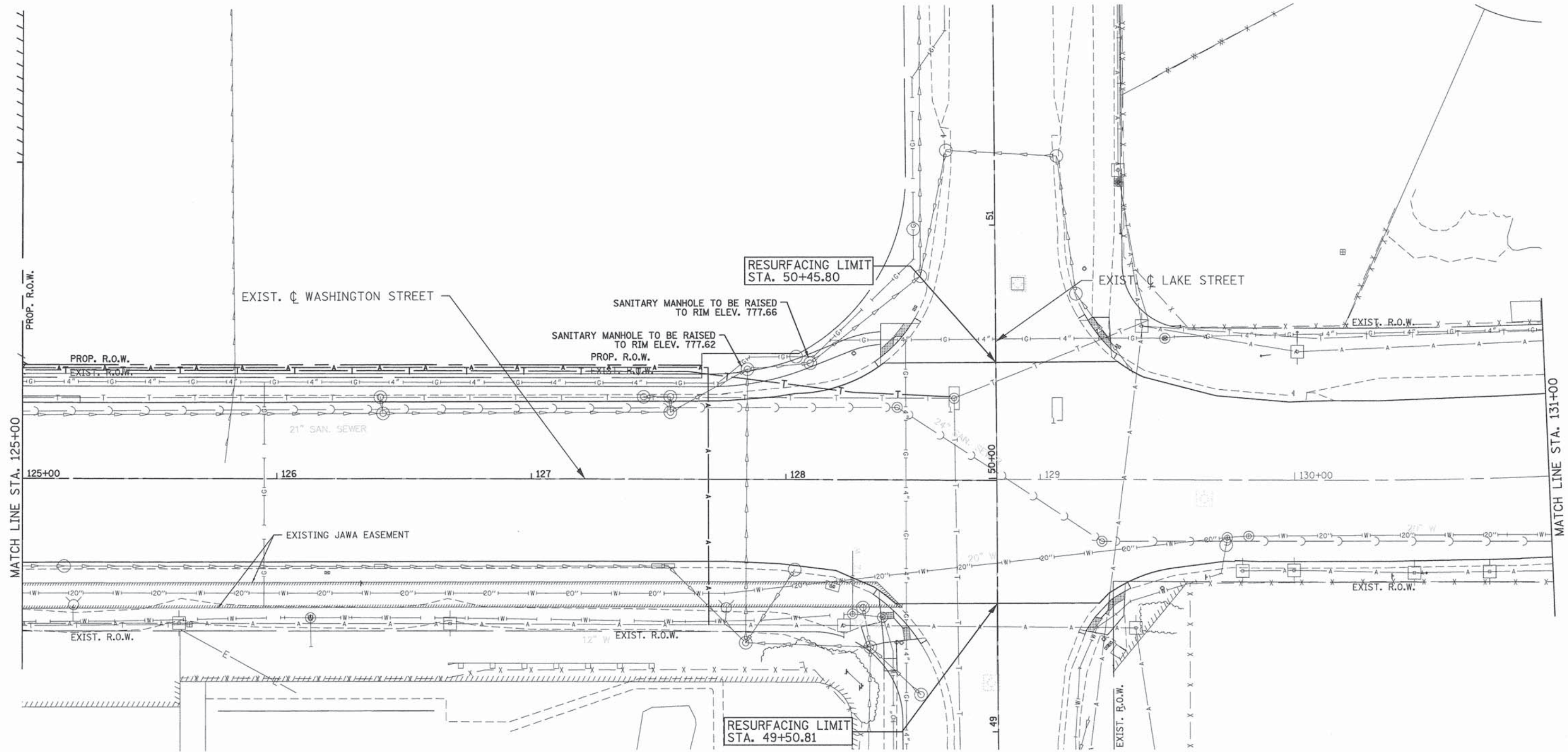
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
 UTILITY PLAN AND PROFILE**
 SCALE: 1"=20' SHEET NO. DU 27 OF 37 STA. 119+00 TO STA. 125+00

F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 125
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			61A63	

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SAN STRUCTURE ADJUSTMENT SCHEDULE							
	STRUCTURE NO.	STATION	OFFSET	DIR.	HEIGHT MOVED (FT)	NO.	STAGE
WASH. ST.	EXIST	127+84.81	43.5	LT	0.45	1	STAGE IIA TO III
WASH. ST.	EXIST	128+09.47	46.0	LT	0.42	1	STAGE IIA TO III



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET			
UTILITY PLAN AND PROFILE			
SCALE: 1"=20'	SHEET NO. DU 28 OF 37	STA. 125+00 TO STA. 131+00	

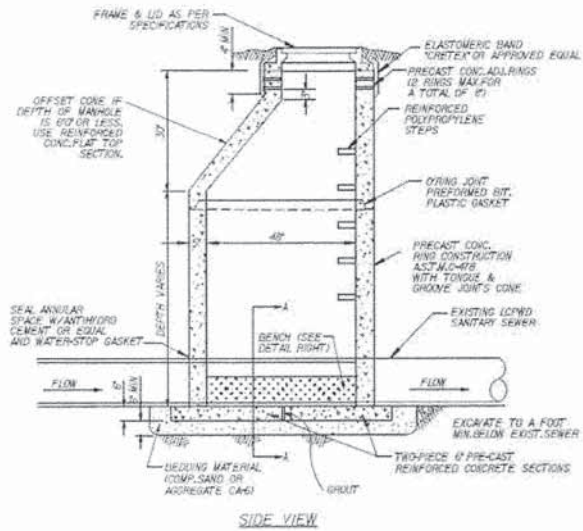
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
187	11-00121-11-BR	LAKE	496	126
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			61A63	

LAKE COUNTY PUBLIC WORKS DEPARTMENT SANITARY MANHOLE CONSTRUCTION SEQUENCING

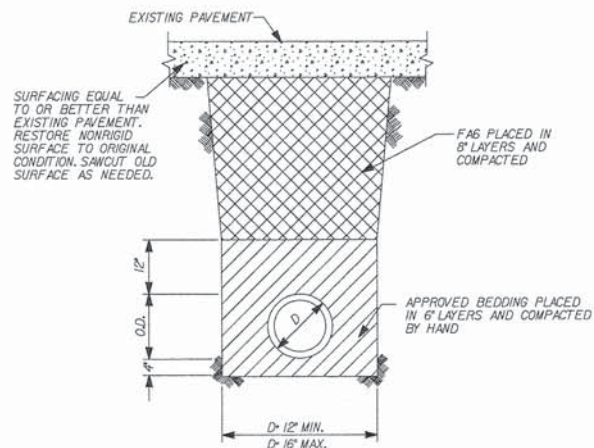
THE CONTRACTOR SHALL EXCAVATE AT LEAST 10" BELOW THE BOTTOM OF THE EXISTING SANITARY SEWER MAIN AND SET IN PLACE A 6" THICK TWO-PIECE PRE-CAST REINFORCED CONCRETE BOTTOM (SPLIT BOTTOM) ON A MINIMUM OF 4" THICK COMPACTED AGGREGATE BASE (CA-6). TWO-PIECE BOTTOM SHALL BE LEVEL AND THE SEAM ORIENTED PERPENDICULAR TO THE MAIN SEWER.

SET-IN PLACE A 48" (INSIDE DIMENSION) PRE-CAST REINFORCED CONCRETE RISER SECTION WITH SUFFICIENTLY SIZED OPENINGS CAST-IN (DOG HOUSE) TO PREVENT DIRECT CONTACT WITH THE EXISTING SEWER PIPE. THE RISER SECTION SHALL BE SET ON MASTIC STRIPS TO FORM A TIGHT SEAL BETWEEN THE RISER SECTION AND THE SPLIT BOTTOM. THE ANNULAR SPACE BETWEEN THE RISER SECTION AND THE SEWER PIPE SHALL BE FILLED WITH SOLID AND SEALED WITH NON-SHRINK CEMENT. THE REMAINING SECTIONS OF THE PROPOSED MANHOLE SHALL BE INSTALLED UPON FINISHED GRADE AS INDICATED.

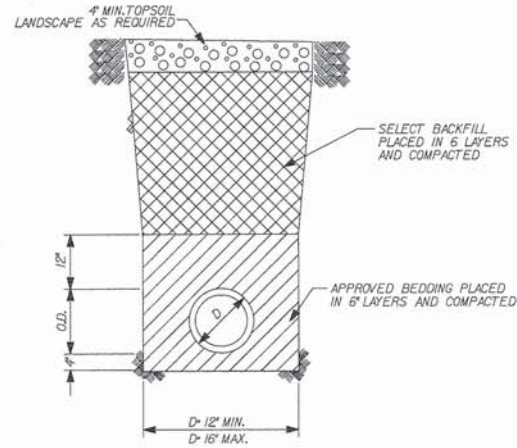
THE REMAINING SPACE AT THE INSIDE BOTTOM OF THE PROPOSED MANHOLE SHALL BE FILLED WITH CLASS "SI" CONCRETE AND BE TROWLED SMOOTH TO FORM A SLOPED BOTTOM (BENCH) AT THE CENTERLINE OF THE EXISTING SEWER PIPE. UPON ACCEPTANCE OF THE NEW SERVICE PIPE AND MANHOLE BY A LAKE COUNTY PUBLIC WORKS DEPARTMENT OFFICIAL, THE CONTRACTOR SHALL REMOVE THE TOP HALF OF THE EXISTING SEWER PIPE AND SMOOTH ALL SHARP EDGES WITH HYDRAULIC CEMENT. THE INVERT OF THE NEW PIPE SHALL BE FORMED SO AS TO DIRECT SEWAGE INTO THE FLOW OF THE MAIN SEWER.



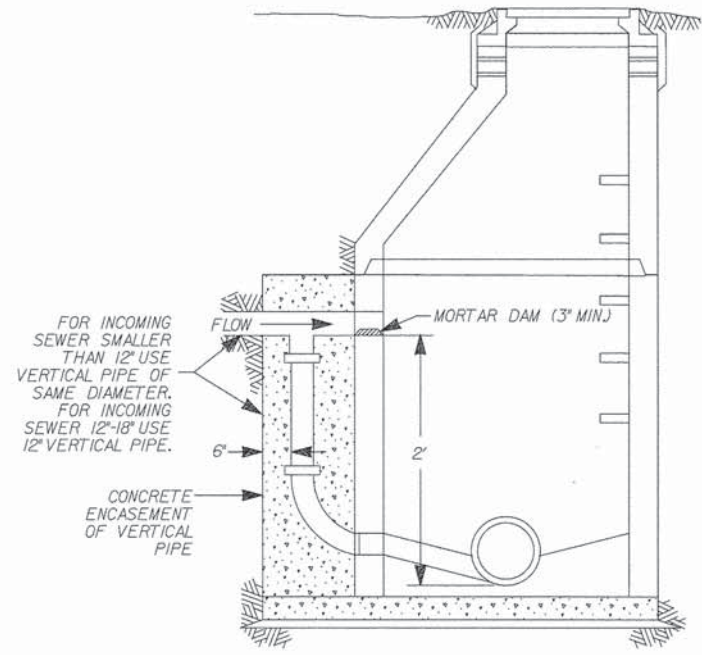
STANDARD MANHOLE CONSTRUCTION OVER EXISTING SEWER DETAIL



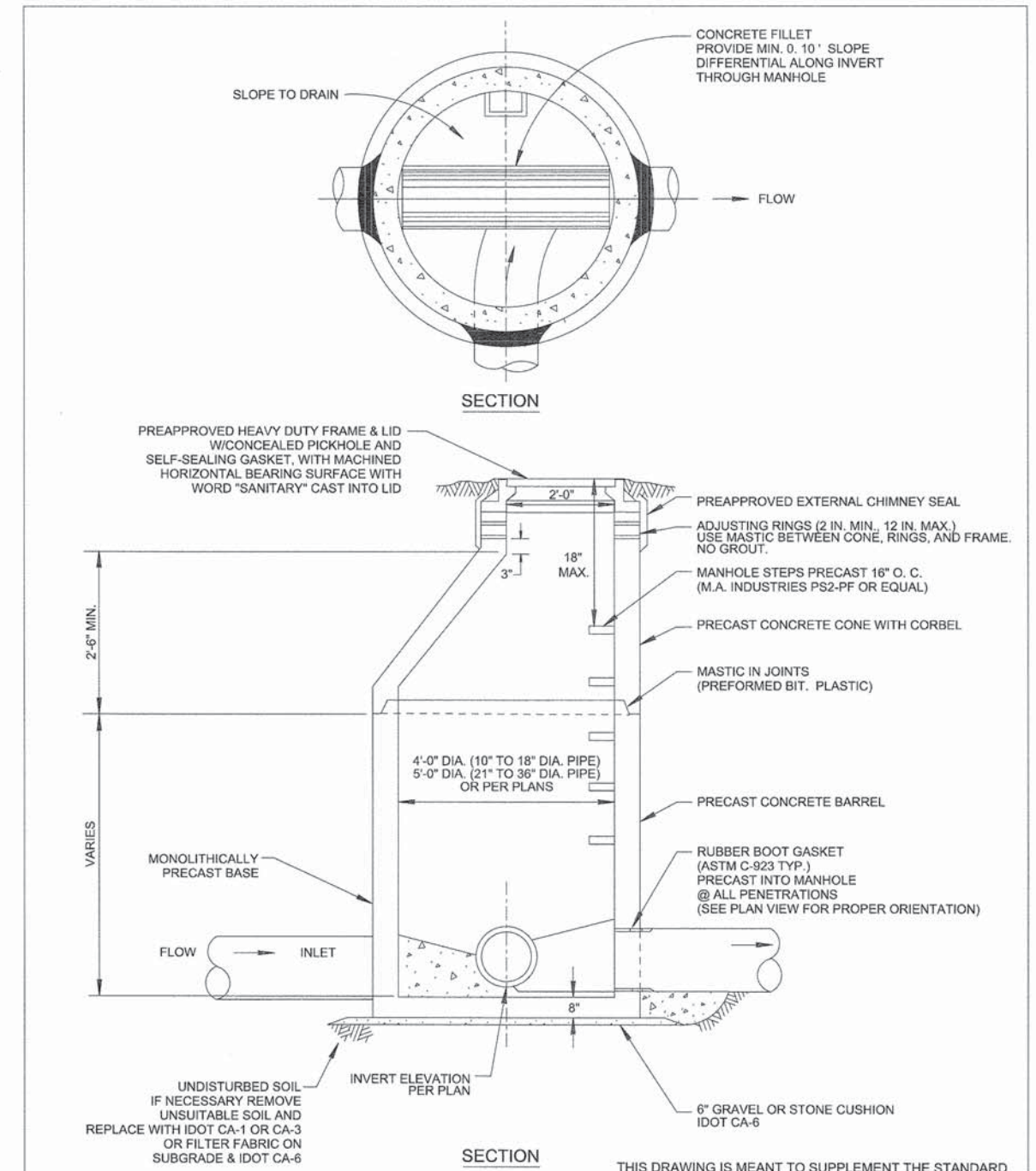
TRENCH DETAIL IN PAVED AREAS



TRENCH DETAIL IN UNPAVED AREAS



DROP MANHOLE CONNECTION DETAIL



Lake County
Department of Public Works

**STANDARD MANHOLE
DETAIL**

DATE:	DESIGNED BY:	
DRAWN BY:	CHECKED BY:	
NAME	REVISIONS	DATE

SH 1 OF 1

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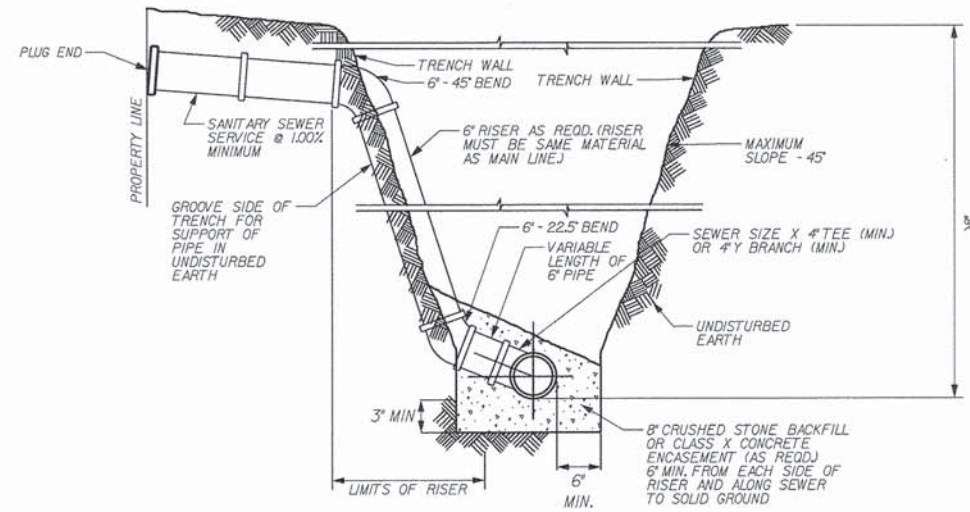
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

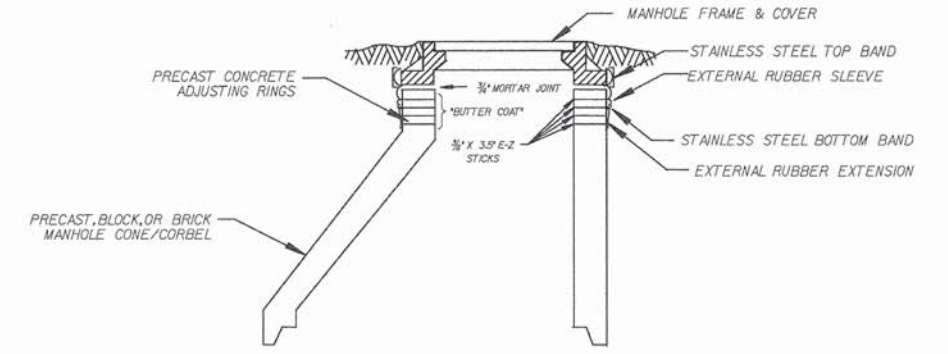
**WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
UTILITY DETAILS**

SCALE:	SHEET NO. DU 29 OF 37	STA.	TO STA.	F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 127
				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		61A63		

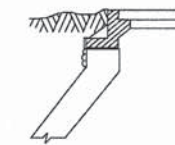


- NOTE:
- SANITARY SEWER RISERS TO BE CONSTRUCTED IN LIEU OF WYES WHERE SEWER DEPTH EXCEEDS 8'-0".
 - USE MISSION COUPLINGS TO CONNECT DISSIMILAR MATERIALS

SANITARY SEWER SERVICE RISER

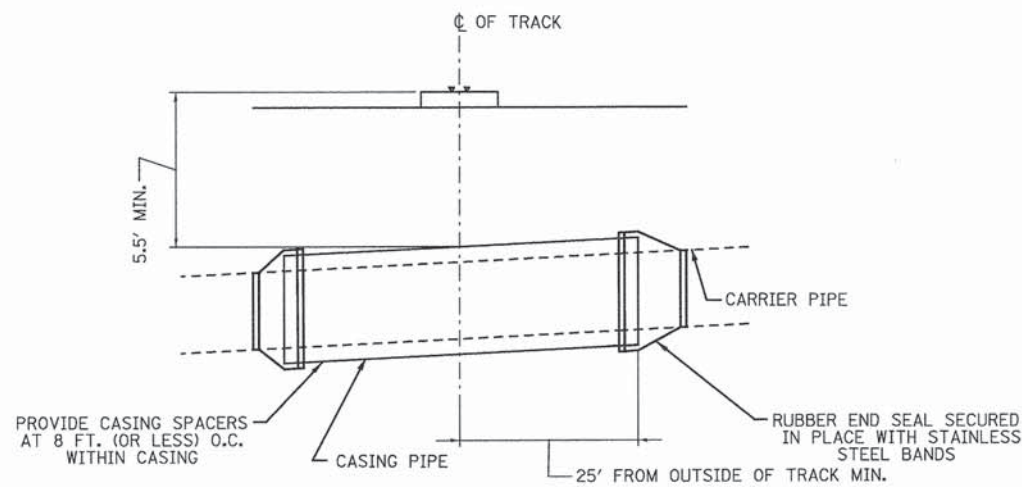


NARROW EXTERNAL RUBBER SEAL



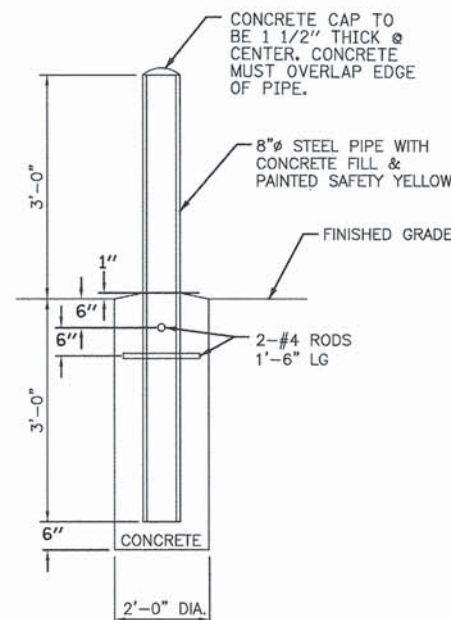
- NOTE:
- TO SPAN CHIMNEY HEIGHTS OF:
- 0 - 3' - NARROW (6") SEAL ONLY
 - OVER 3' - 6 1/2' - STANDARD (9") SEAL ONLY
 - OVER 6 1/2' - 12' - STD. SEAL & EXTENSION
 - OVER 12' - SEAL & MULT. EXTENSIONS

EXTERNAL MANHOLE CHIMNEY SEAL DETAILS

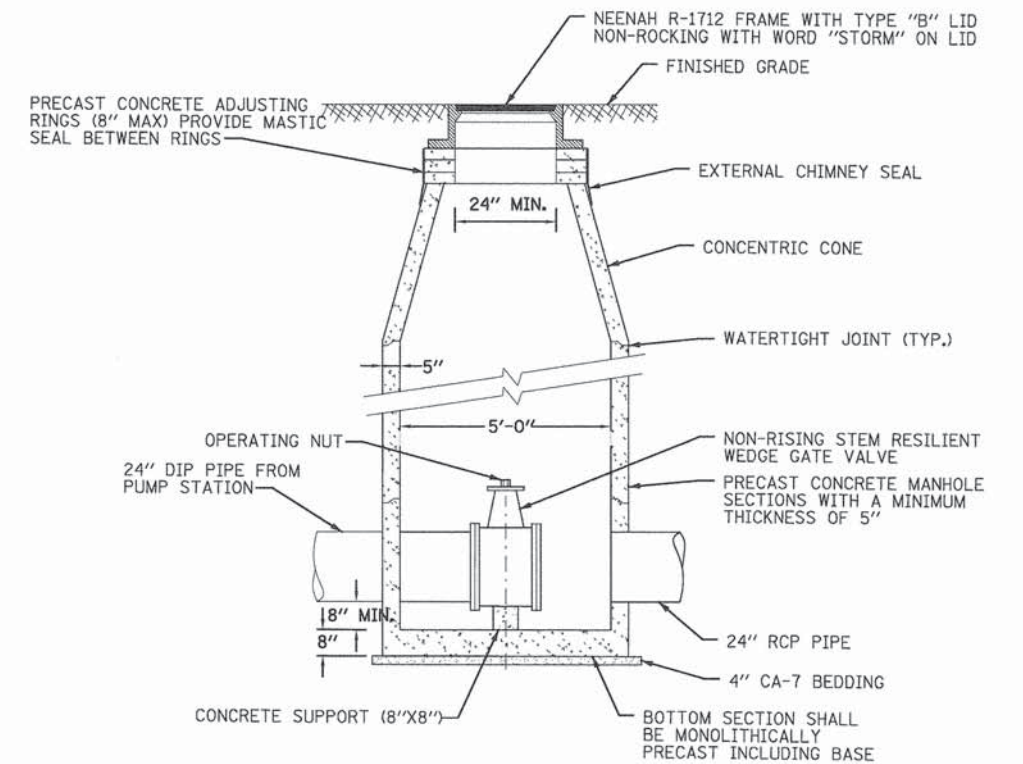


SANITARY SEWER PIPE SIZE	CASING PIPE SIZE	LENGTH OF CASING PIPE	MIN. WALL THICKNESS
21"	30"	120'	0.375"

RAILROAD SANITARY SEWER CROSSING CASING PIPE DETAIL
N.T.S.



TYPICAL GUARD POST DETAIL
N.T.S.



VALVE VAULT DETAIL
N.T.S.

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PATRICK ENGINEERING INC.
4970 VARSITY DRIVE
LISLE, IL 60532
patrickengineering.com

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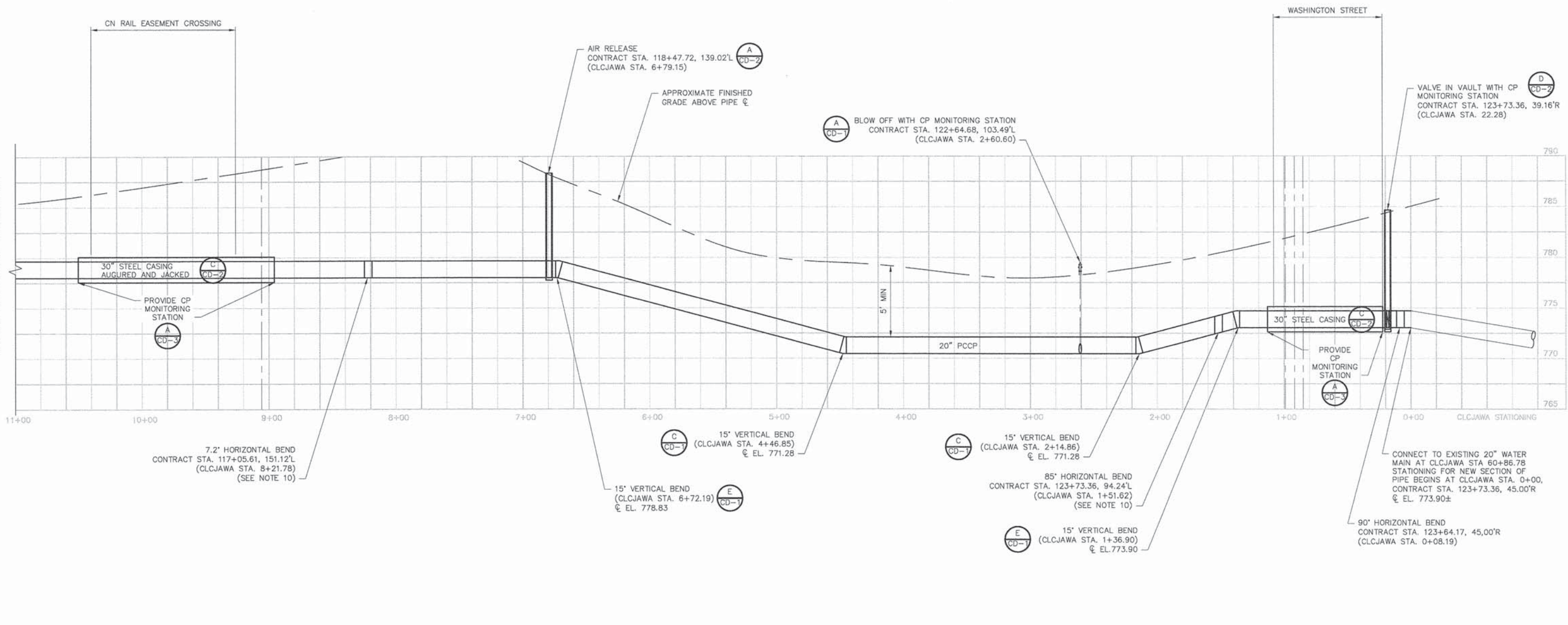
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
UTILITY DETAILS

SCALE:	SHEET NO. DU 30 OF 37	STA. TO STA.	F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 128
			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		61A63		

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SEE SHEET NO. DU 32 OF 37 STA. 11+00



STATIONING KEY:

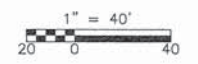
CONTRACT STATIONING PROVIDED IS BASED ON THE WASHINGTON STREET AND IS FOR CONSTRUCTION PURPOSES. THE CLCJAWA STATIONING PROVIDED IS FOR AS-BUILT PURPOSE ONLY AND ARE NOT FOR CONSTRUCTION.

DETAIL REFERENCE KEY:

CD-1 = SHEET NO. DU 33
 CD-2 = SHEET NO. DU 34
 CD-3 = SHEET NO. DU 35

SCALE:

HORIZONTAL AND VERTICAL 1" = 40'



GENERAL NOTES:

- REFER TO UTILITY PLAN AND PROFILE SHEET NO. DU 22, 24, AND 26 FOR HORIZONTAL ALIGNMENT OF THE TRANSMISSION MAIN.
- THE CLCJAWA DOES NOT GUARANTEE THE COMPLETENESS OR ACCURACY OF EXISTING UTILITIES AND STRUCTURES SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL VERIFY DIMENSIONS AND SITE CONDITIONS IN FIELD, INCLUDING HORIZONTAL AND VERTICAL LOCATION OF THE TRANSMISSION MAIN, AND SUBMIT A LAYING SCHEDULE FOR APPROVAL TO THE ENGINEER PRIOR TO COMMENCING WORK.
- CLCJAWA REQUIRES A MINIMUM 2 WEEK NOTICE PRIOR TO COMMENCING ANY WORK RELATED TO THE TRANSMISSION MAIN. ONLY CLCJAWA STAFF ARE PERMITTED TO OPERATE VALVES AND OTHER APPURTENANCES ASSOCIATED WITH THE TRANSMISSION MAIN.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT ABUTTING PROPERTY, UTILITIES, PEDESTRIANS AND VEHICULAR TRAFFIC.
- WHERE A SANITARY OR STORM SEWER MAIN, LATERAL OR BUILDING SERVICE SEWER CROSSES A WATER MAIN, MINIMUM SEPARATION MUST BE MAINTAINED PER ILLINOIS ADMINISTRATIVE CODE TITLE 35, SUBTITLE F, CHAPTER 2, SECTION 653.119 PROTECTION OF WATER MAIN AND SERVICE LINES.
- CP = CATHODIC PROTECTION. SEE SHEET NO. DU 35 FOR CP MONITORING STATION DETAILS.
- A MINIMUM OF 5' OF COVER FROM THE TOP OF PIPE SHALL BE MAINTAINED AT ALL TIMES.
- PIPE MAY BE DEFLECTED WITHIN ACCEPTABLE ANGLE DEFINED BY THE MANUFACTURER.
- PROVIDE SPARE CUSTOM FITTINGS AS SPECIFIED, COORDINATE WITH CLCJAWA DELIVERY TIME AND LOCATION AT THE TIME OF SHOW DRAWING REVIEWS.

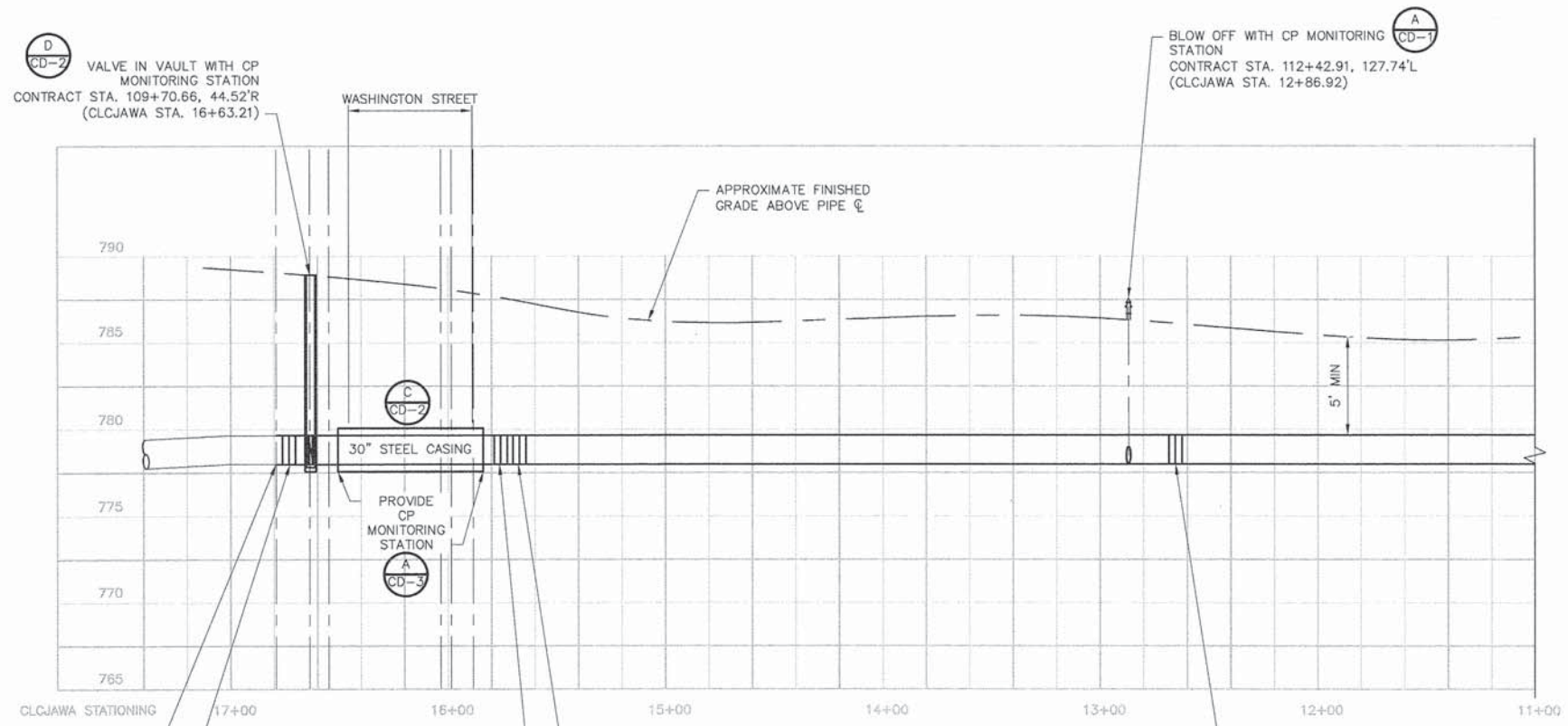


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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
 CLCJAWA 20" TRANSMISSION MAIN REALIGNMENT - PROFILE I
 SCALE: 1"=40' SHEET NO. DU 31 OF 37 STA. 109+50 TO STA. 124+50

F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 129
CONTRACT NO. 61A63				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



CONNECT TO EXISTING 20" WATER MAIN AT CLCJAWA EXISTING STA. 76+31.35. STATIONING FOR NEW SECTION OF PIPE ENDS AT CLCJAWA STA. 16+79.15, CONTRACT STA. 109+57.00, 50.65'R \pm EL. 778.83 \pm

90' HORIZONTAL BEND CONTRACT STA. 109+70.75, 50.45'R (CLCJAWA STA. 16+73.21)

30' HORIZONTAL BEND CONTRACT STA. 109+75.33, 49.02'L (CLCJAWA STA. 15+67.23)

45' HORIZONTAL BEND CONTRACT STA. 109+69.34, 42.84'L (CLCJAWA STA. 15+75.85)

15' HORIZONTAL BEND CONTRACT STA. 112+63.64, 133.96'L (CLCJAWA STA. 12+65.52)

SEE SHEET NO. 31 OF 37 STA. 11+00

STATIONING KEY:

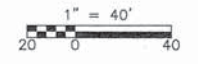
CONTRACT STATIONING PROVIDED IS BASED ON THE WASHINGTON STREET AND IS FOR CONSTRUCTION PURPOSES. THE CLCJAWA STATIONING PROVIDED IS FOR AS-BUILT PURPOSE ONLY AND ARE NOT FOR CONSTRUCTION.

DETAIL REFERENCE KEY:

- CD-1 = SHEET NO. DU 33
- CD-2 = SHEET NO. DU 34
- CD-3 = SHEET NO. DU 35

SCALE:

HORIZONTAL AND VERTICAL 1" = 40'



GENERAL NOTES:

1. REFER TO UTILITY PLAN AND PROFILE SHEET NO. DU 22, 24, AND 26 FOR HORIZONTAL ALIGNMENT OF THE TRANSMISSION MAIN.
2. THE CLCJAWA DOES NOT GUARANTEE THE COMPLETENESS OR ACCURACY OF EXISTING UTILITIES AND STRUCTURES SHOWN ON THE PLANS.
3. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND SITE CONDITIONS IN FIELD, INCLUDING HORIZONTAL AND VERTICAL LOCATION OF THE TRANSMISSION MAIN, AND SUBMIT A LAYING SCHEDULE FOR APPROVAL TO THE ENGINEER PRIOR TO COMMENCING WORK.
4. CLCJAWA REQUIRES A MINIMUM 2 WEEK NOTICE PRIOR TO COMMENCING ANY WORK RELATED TO THE TRANSMISSION MAIN. ONLY CLCJAWA STAFF ARE PERMITTED TO OPERATE VALVES AND OTHER APPURTENANCES ASSOCIATED WITH THE TRANSMISSION MAIN.
5. THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT ABUTTING PROPERTY, UTILITIES, PEDESTRIANS AND VEHICULAR TRAFFIC.
6. WHERE A SANITARY OR STORM SEWER MAIN, LATERAL OR BUILDING SERVICE SEWER CROSSES A WATER MAIN, MINIMUM SEPARATION MUST BE MAINTAINED PER ILLINOIS ADMINISTRATIVE CODE TITLE 35, SUBTITLE F, CHAPTER 2, SECTION 653.119 PROTECTION OF WATER MAIN AND SERVICE LINES.
7. CP = CATHODIC PROTECTION. SEE SHEET NO. DU 35 FOR CP MONITORING STATION DETAILS.
8. A MINIMUM OF 5' OF COVER FROM THE TOP OF PIPE SHALL BE MAINTAINED AT ALL TIMES.
9. PIPE MAY BE DEFLECTED WITHIN ACCEPTABLE ANGLE DEFINED BY THE MANUFACTURER.
10. PROVIDE SPARE CUSTOM FITTINGS AS SPECIFIED. COORDINATE WITH CLCJAWA DELIVERY TIME AND LOCATION AT THE TIME OF SHOW DRAWING REVIEWS.



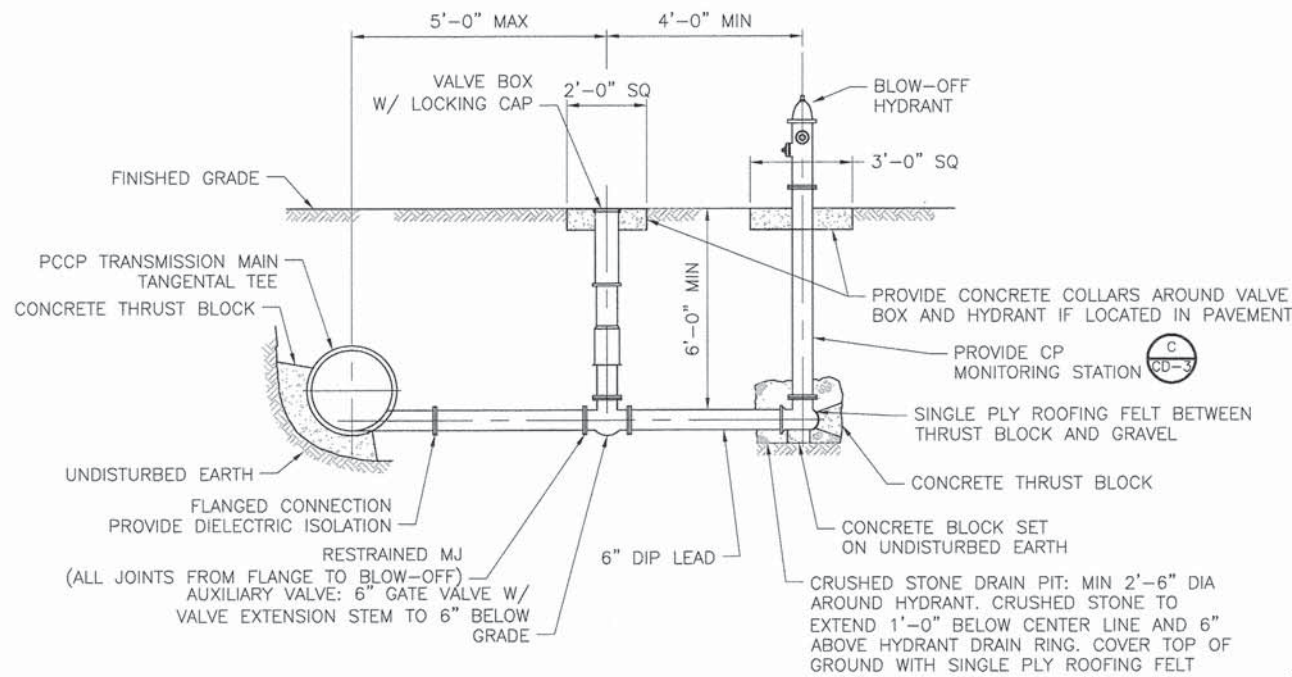
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

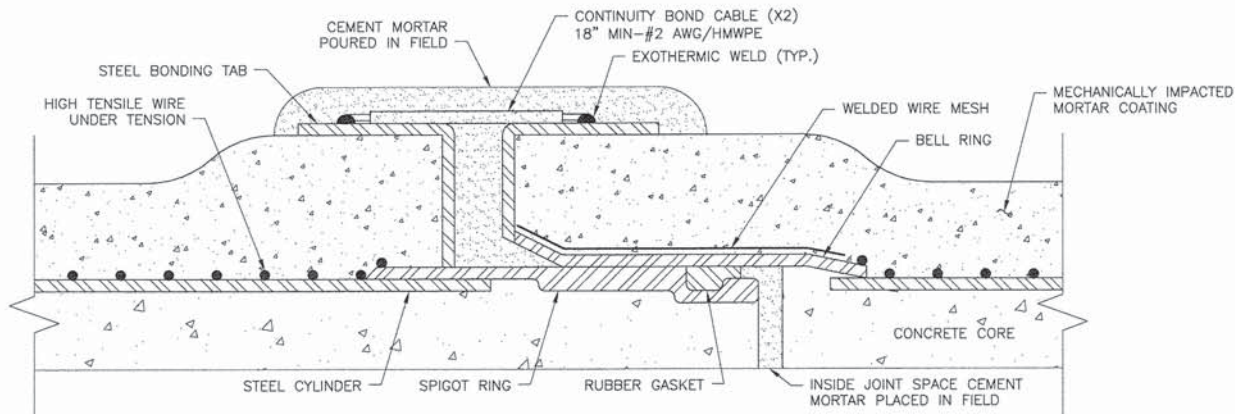
WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
CLCJAWA 20" TRANSMISSION MAIN REALIGNMENT - PROFILE II

SCALE: 1"=40' SHEET NO. DU 32 OF 37 STA. 109+50 TO STA. 124+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
187	11-00121-11-BR	LAKE	496	130
CONTRACT NO. 61A63				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

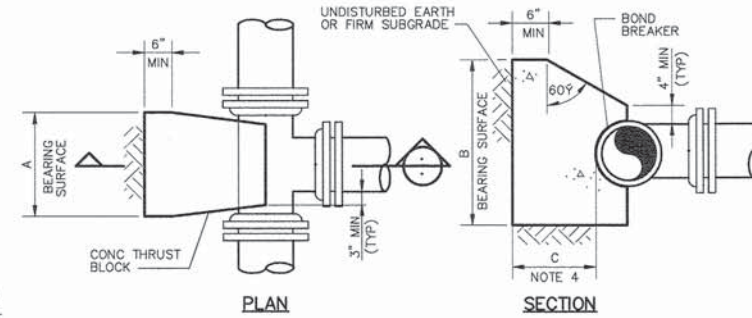


BLOW-OFF: PCCP TRANSMISSION MAIN
DETAIL A
 N.T.S.



NOTE: COAT EXOTHERMIC WELDS AND EXPOSED AREAS OF STEEL BONDING TABS WITH COAL TAR COMPOUND.

CONTINUITY BOND FOR PCCP JOINTS
DETAIL D
 N.T.S.



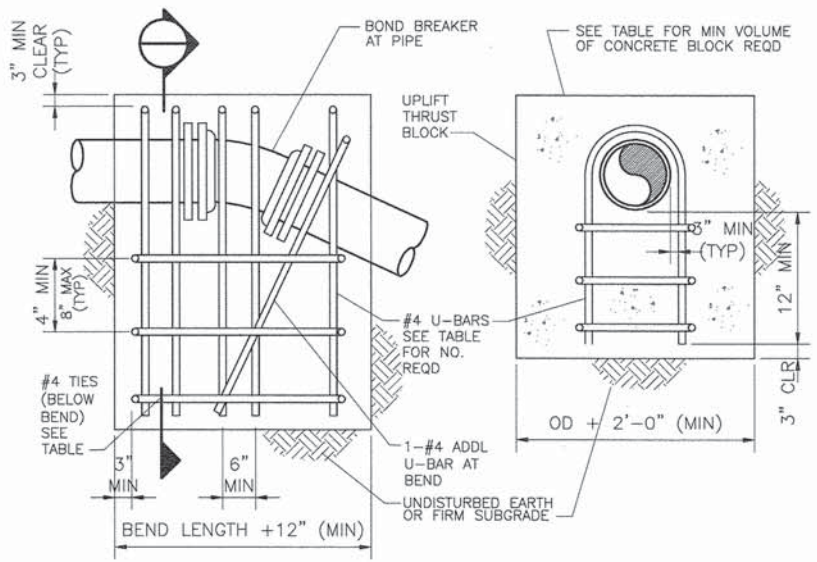
NOMINAL PIPE SIZE (IN)	MAXIMUM PIPE OD (IN)	REQUIRED BEARING AREA (SQ FT)
6	21.60	41
20	6.90	4

NOTES:
 1. MAXIMUM TEST PRESSURE = 1.5x150 PSI
 2. MINIMUM ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF
 3. BEARING AREA = A x B
 4. C SHALL BE GREATER THAN A/2 AND B/2.

THRUST BLOCKS FOR TEES
DETAIL B
 N.T.S.

GENERAL THRUST BLOCKS NOTES:

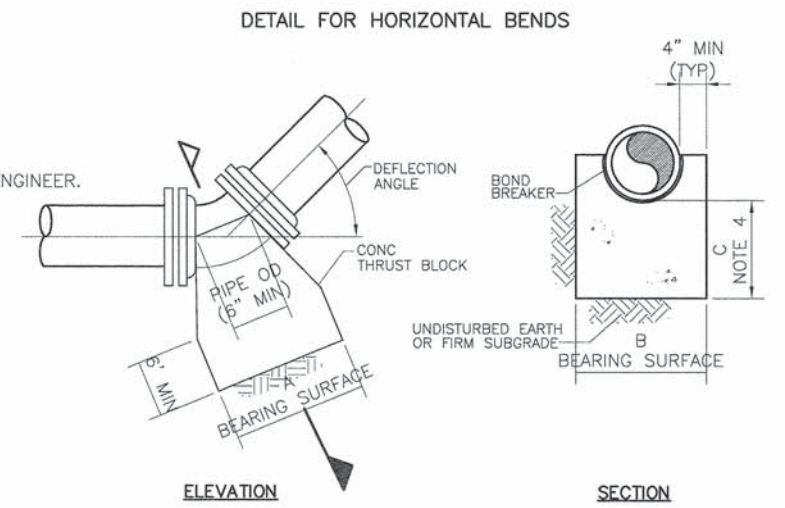
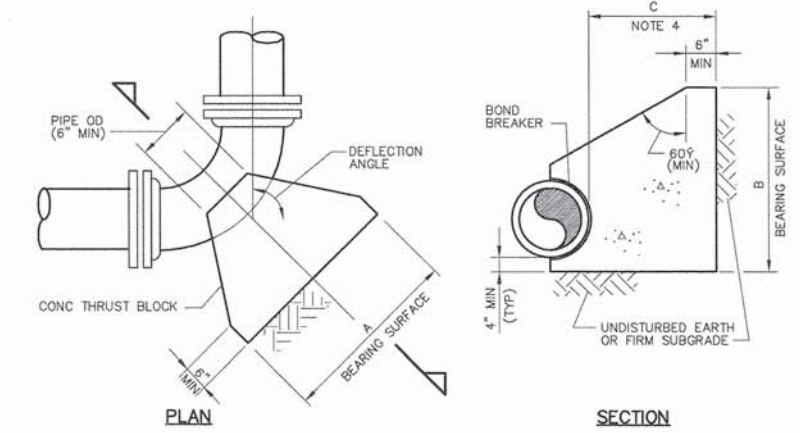
1. USE THRUST BLOCKS AS CALLED OUT IN THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.
2. THRUST BLOCKS DO NOT REPLACE THE USE OF RESTRAINED JOINT PIPE.



PIPE SIZE (IN.)	PIPE O.D. (IN.)	REQUIRED BEARING AREA (SQ FT)						#4 TIES REQD
		60 DEG	45 DEG	30 DEG	22.5 DEG	11.25 DEG		
6	6.90	2	2	2	1.0	2	1.0	2
18	19.50	7	15	6	12	4	9	3

NOTES:
 1. "REINF" = NO. OF #4-U-BARS REQUIRED.
 2. "CONCRETE" = VOLUME OF CONCRETE BLOCK REQUIRED, CU YD.
 3. MAXIMUM TEST PRESSURE = 1.5x150 PSI.
 4. MINIMUM GRADE 40 REBAR.

THRUST BLOCK FOR UPPER VERTICAL BENDS WITH REINFORCING BARS
DETAIL E
 N.T.S.



NOMINAL PIPE SIZE (INCHES)	MAXIMUM PIPE OD (INCHES)	REQUIRED BEARING AREA (SQ FT)					
		90 DEG	60 DEG	45 DEG	30 DEG	22.50 DEG	11.25 DEG
6	21.60	58	41	32	21	16	8
20	6.90	6	4	3	2.2	1.6	0.8

THRUST BLOCKS FOR HORIZONTAL BENDS AND LOWER VERTICAL BENDS
 NOTES:
 1. MAXIMUM TEST PRESSURE = 1.5 x 150 PSI
 2. MINIMUM ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF
 3. BEARING AREA = A x B
 4. C SHALL BE GREATER THAN A/2 AND B/2.

THRUST BLOCKS FOR HORIZONTAL BENDS AND LOWER VERTICAL BENDS
DETAIL C
 N.T.S.

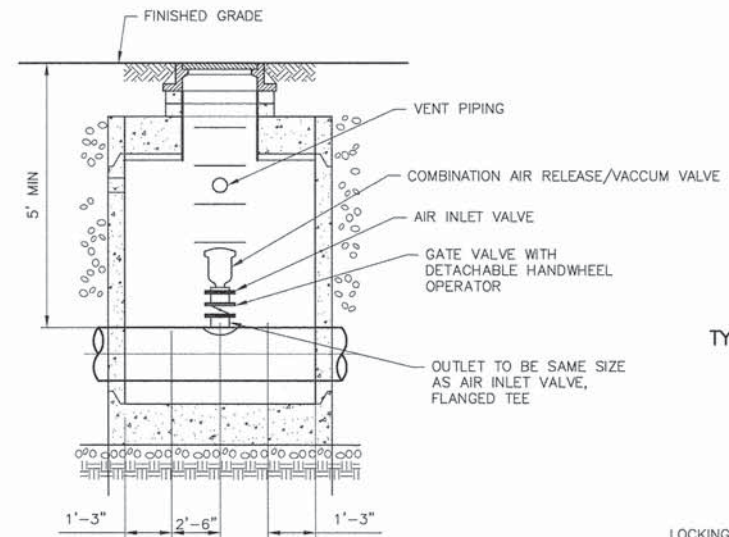
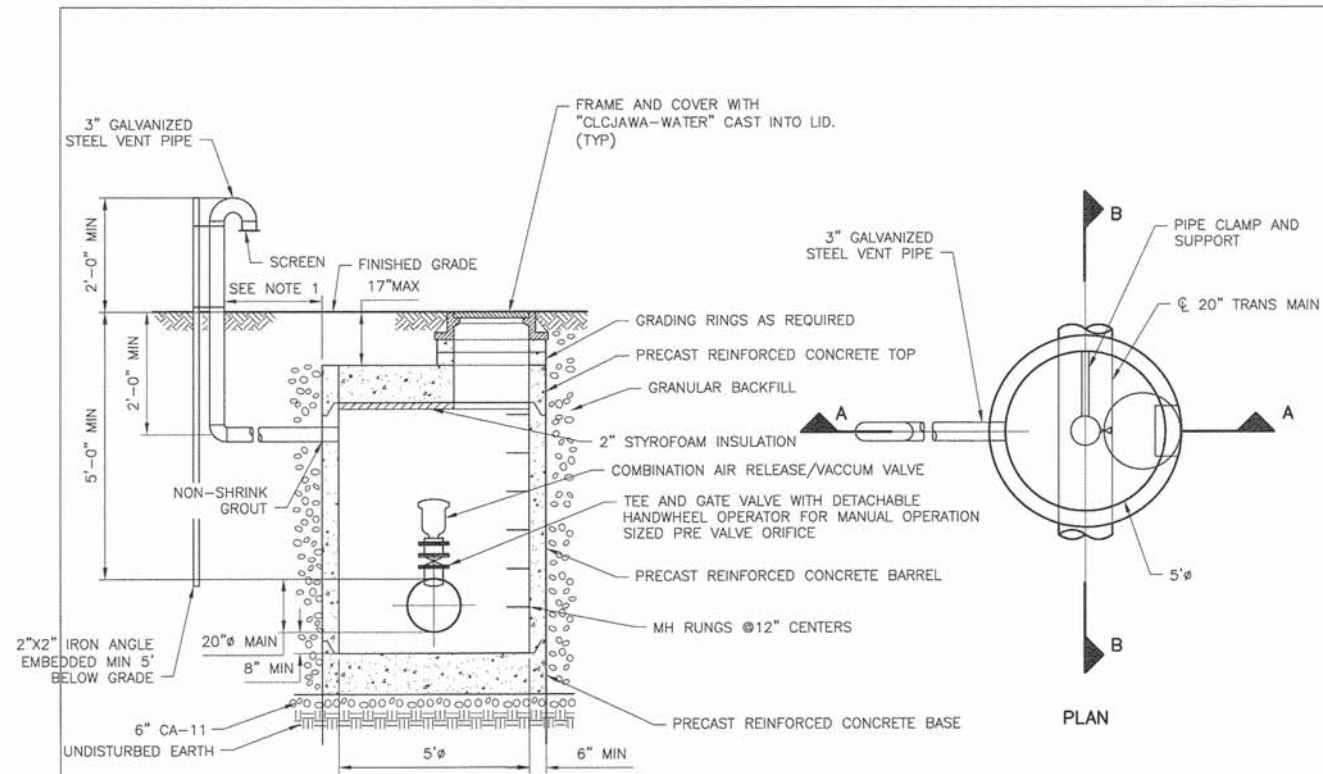


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PLOT SCALE = N/A	CHECKED -- AA	REVISED --
PLOT DATE = 6-29-2014	DATE -- 6-30-2014	REVISED --

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
 CLCJAWA 20" TRANSMISSION MAIN REALIGNMENT - DETAILS I
 SCALE: NTS SHEET NO. DU 33 OF 37 STA. 109+50 TO STA. 124+50

F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 131
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		



TYPICAL BEDDING - CLCJAWA WATER MAIN ONLY

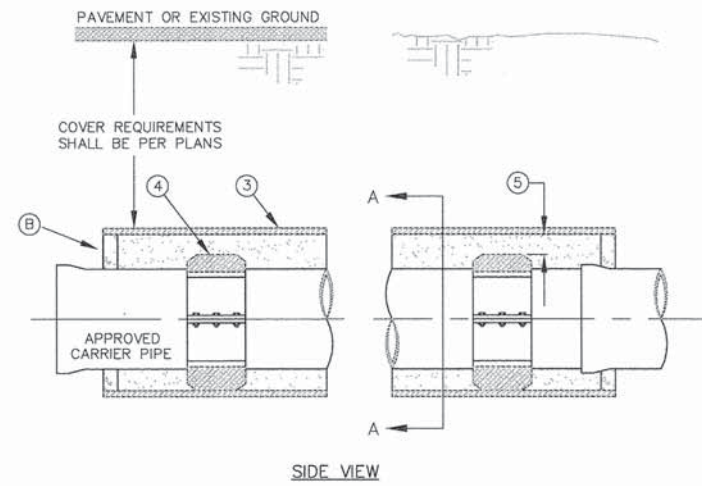
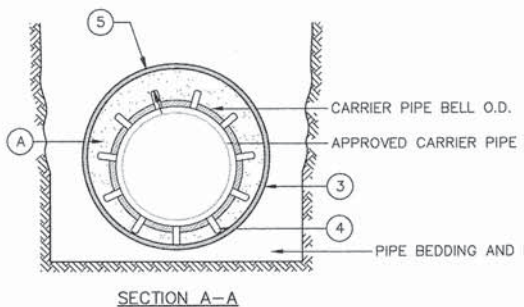
DETAIL B
N.T.S.

NOTES:
1. THE CONTRACTOR SHALL SCRAP TOP 18" OF SOIL AND STOCKPILE FOR USE DURING BACKFILL OPERATIONS AS TOPSOIL.

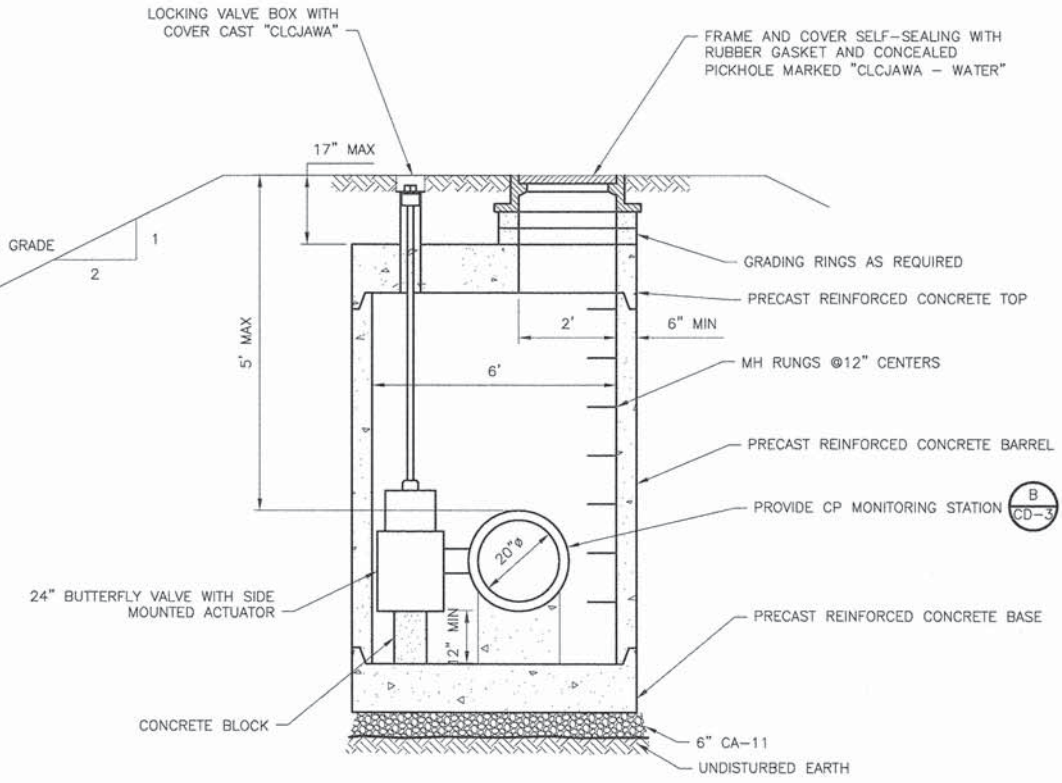
AIR RELEASE NOTES:
1. DISTANCE AS SPECIFIED BY ENGINEER.
2. SLOPE VENT BACK TO THE AIR RELEASE VALVE VAULT WITH A MINIMUM SLOPE OF 1/8" PER FOOT.

AIR RELEASE/AIR INLET VALVE VAULT FOR 20" PIPE

DETAIL A
N.T.S.



SIDE VIEW



VALVE IN VAULT
DETAIL D
N.T.S.

GENERAL NOTES:
1. INSULATED SPACERS SHALL BE USED TO PROVIDE CORROSION PROTECTION FOR DUCTILE IRON PIPE.
2. TUNNEL SKIDS SHALL BE USED FOR PCCP TO MATCH EXISTING PIPE.
3. STEEL CASING MINIMUM YIELD 36,000 PSI, SIZE AND LENGTH AS SHOWN IN PLAN AND SPECIFIED.
4. CASING INSULATORS. SPACING AND LOCATION PER MANUFACTURER'S RECOMMENDATIONS. INSULATORS SHALL FIT SNUG OVER THE CARRIER PIPE.
5. POSITION CARRIER PIPE APPROXIMATELY IN CENTER OF CASING. MINIMUM SPACING BETWEEN INSULATOR AND CASING PIPE SHALL BE 1", MAXIMUM SPACING SHALL BE 2".

CONSTRUCTION NOTES:
A. ANNULAR SPACE SHALL BE FILLED WITH SAND AS SPECIFIED.
B. ENDS SHALL BE SEALED WITH GROUT.

CARRIER PIPE INSTALLATION WITH CASING INSULATORS

DETAIL C
N.T.S.

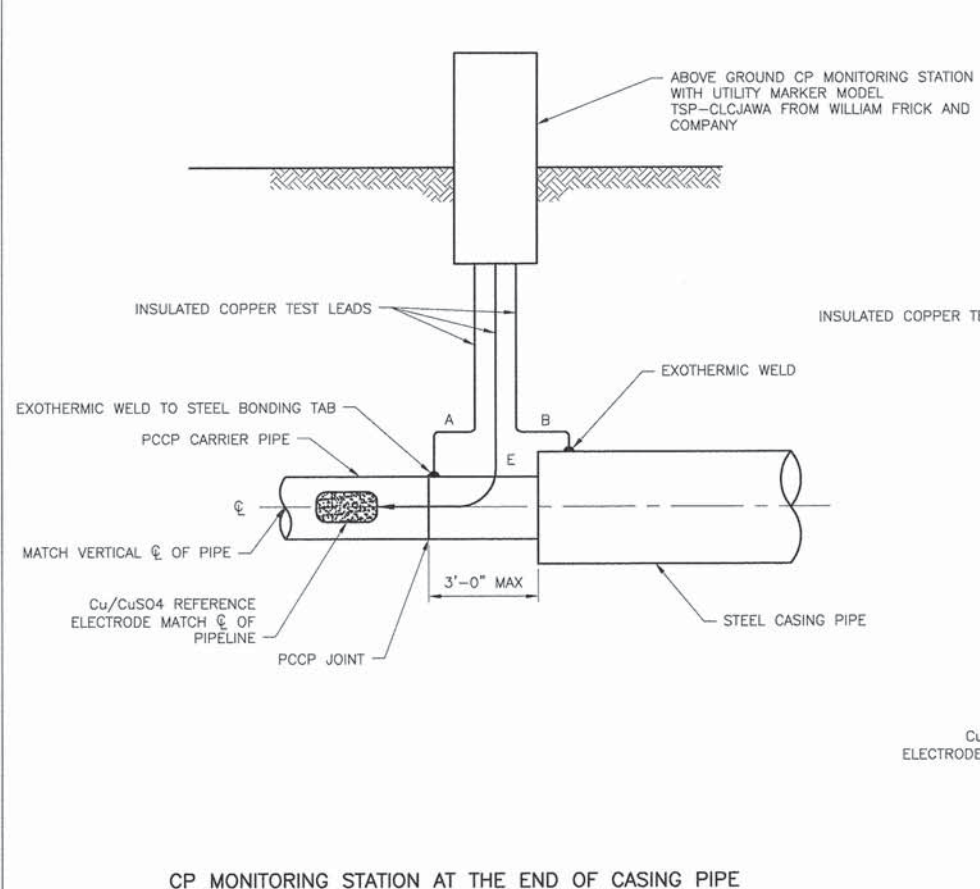


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

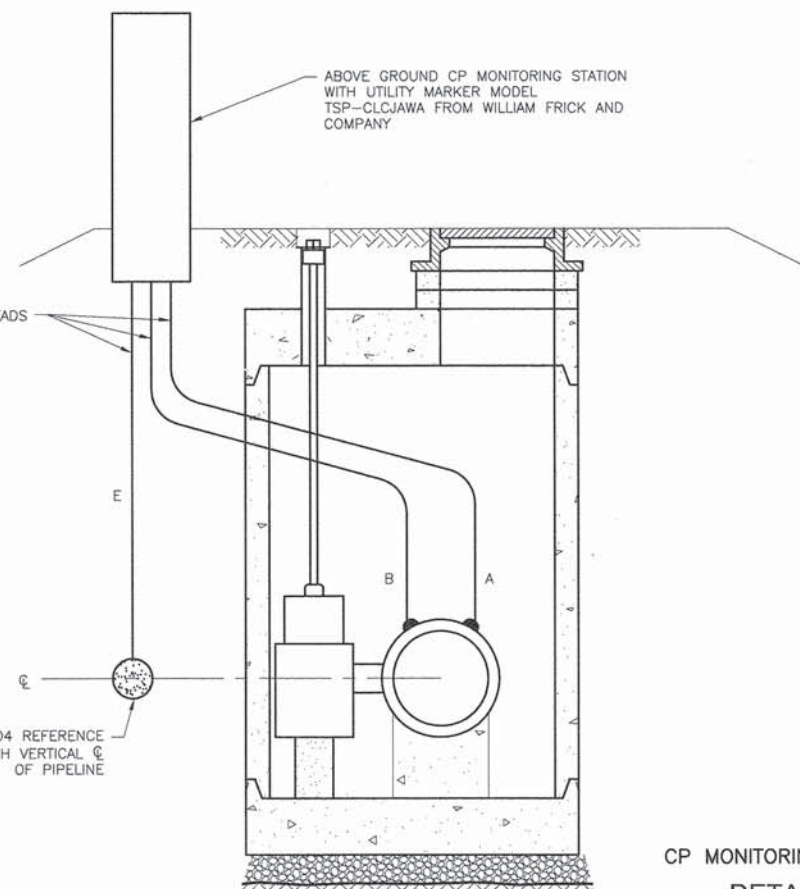
WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
CLCJAWA 20" TRANSMISSION MAIN REALIGNMENT - DETAILS II

F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 132
SCALE: NTS		SHEET NO. DU 34 OF 37	STA. 109+50 TO STA. 124+50	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



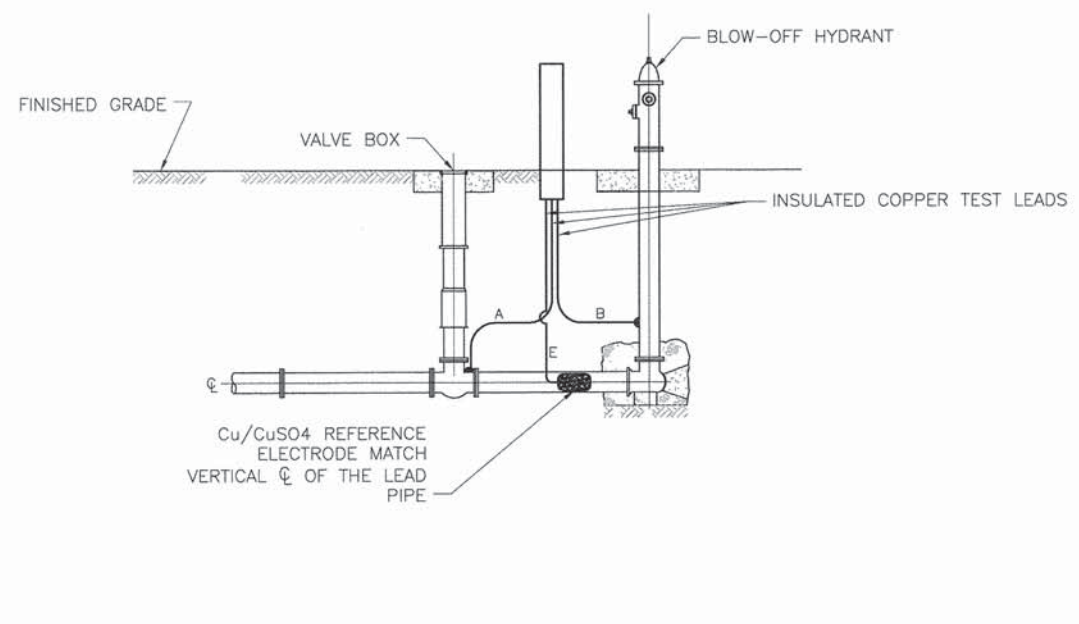
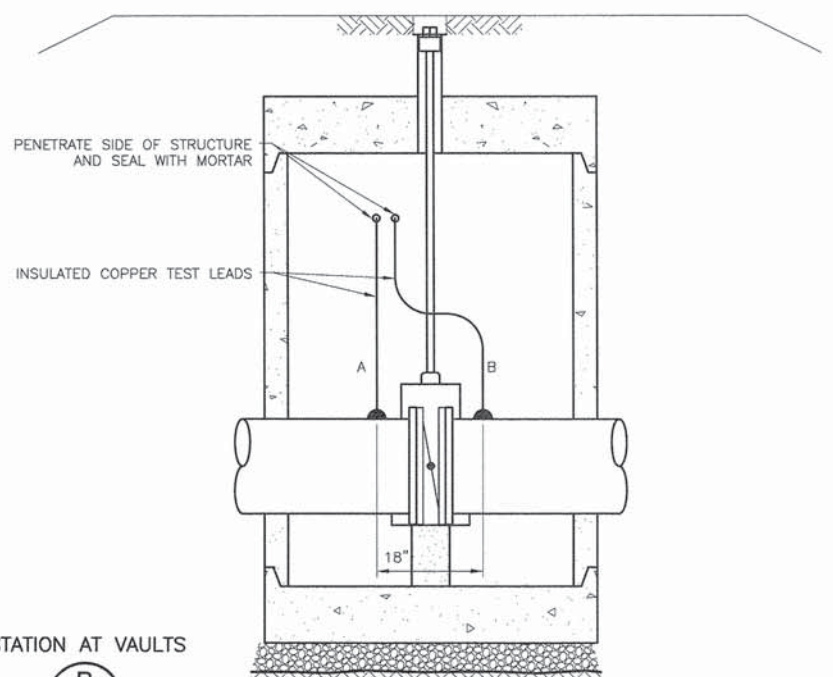
CP MONITORING STATION AT THE END OF CASING PIPE

DETAIL A
N.T.S.



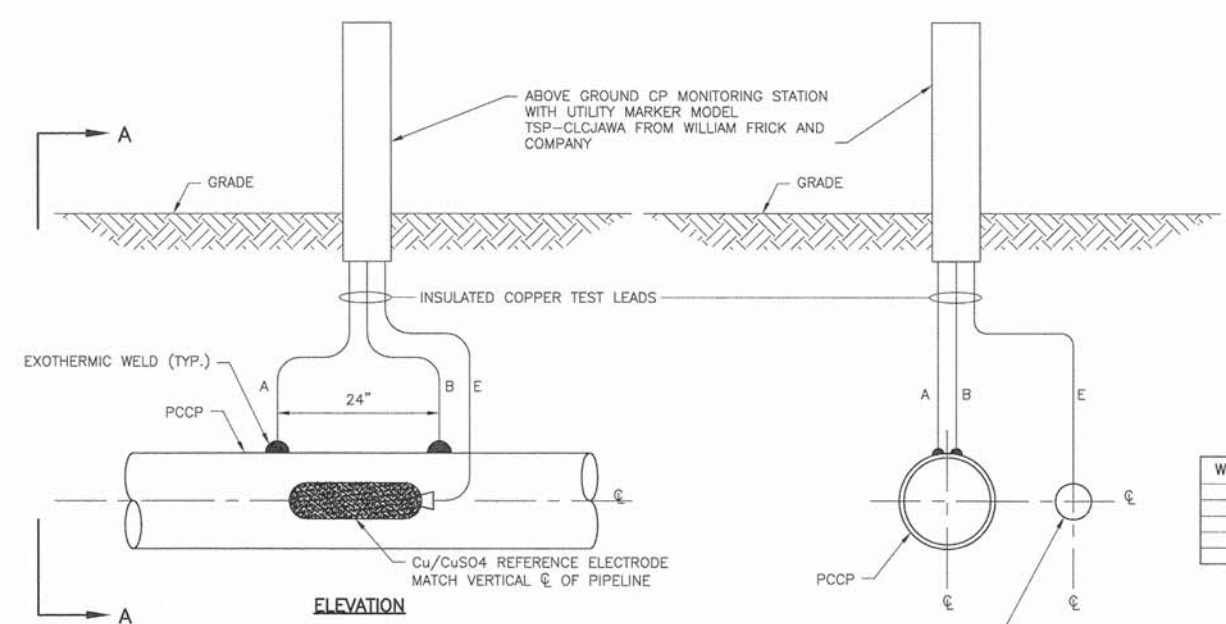
CP MONITORING STATION AT VAULTS

DETAIL B
N.T.S.



CP MONITORING STATION AT BLOW-OFF HYDRANT

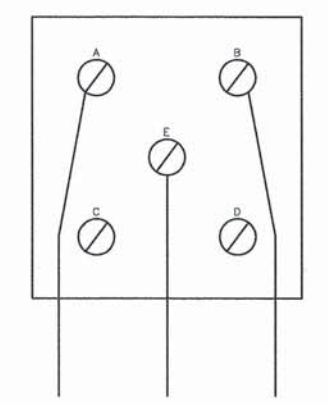
DETAIL D
N.T.S.



ELEVATION

SECTION A-A

FOR BURIED PIPE
DETAIL D
N.T.S.



TWO WIRE TEST STATION

WIRE TAG	GAUGE (AWG)	INSULATION	COLOR	CONNECTION
A	NO.12	THWN	BLUE	PIPE
B	NO. 12	THWN	BLUE	PIPE
C	NOT USED	-	-	-
D	NOT USED	-	-	-
E	NO. 14	BLACK	BLACK	REF. ELECTRODE

FOR ALL TEST STATIONS
DETAIL E
N.T.S.

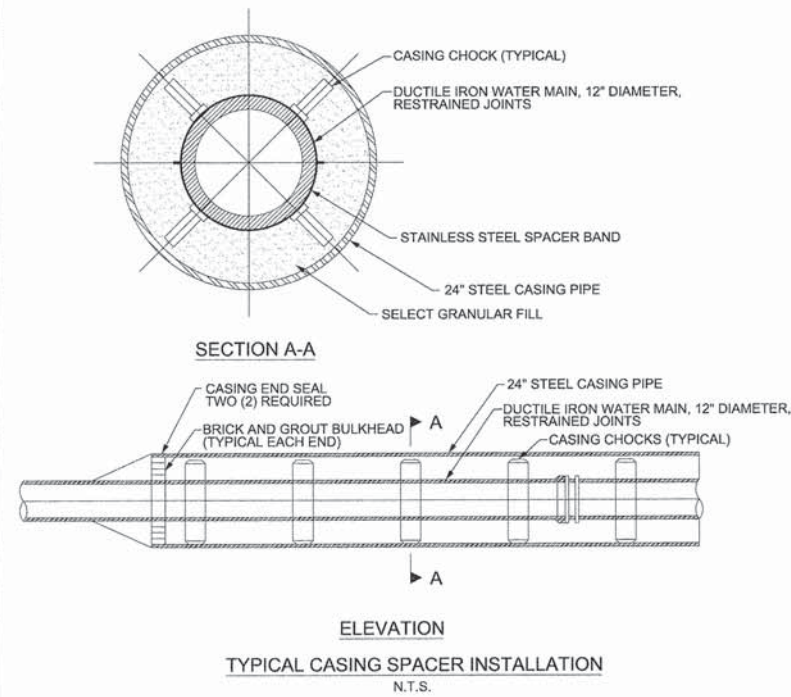


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
CLCJAWA 20" TRANSMISSION MAIN REALIGNMENT - DETAILS III
SCALE: N.T.S. SHEET NO. DU 35 OF 37 STA. 109+50 TO STA. 124+50

F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 133
CONTRACT NO. 61A63				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



STEEL CASING PIPE SHALL MEET THE REQUIREMENTS OF ASTM A139 (ANSI B36.10); MINIMUM YIELD STRENGTH OF 35,000 P.S.I., 0.375" MINIMUM WALL THICKNESS.

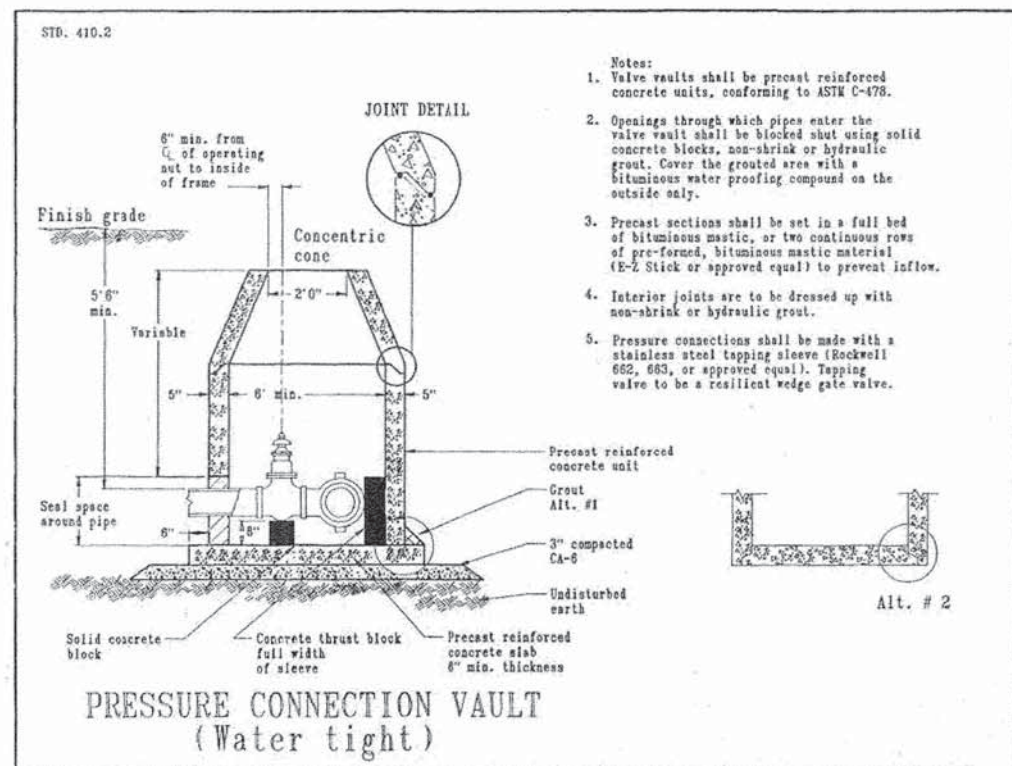
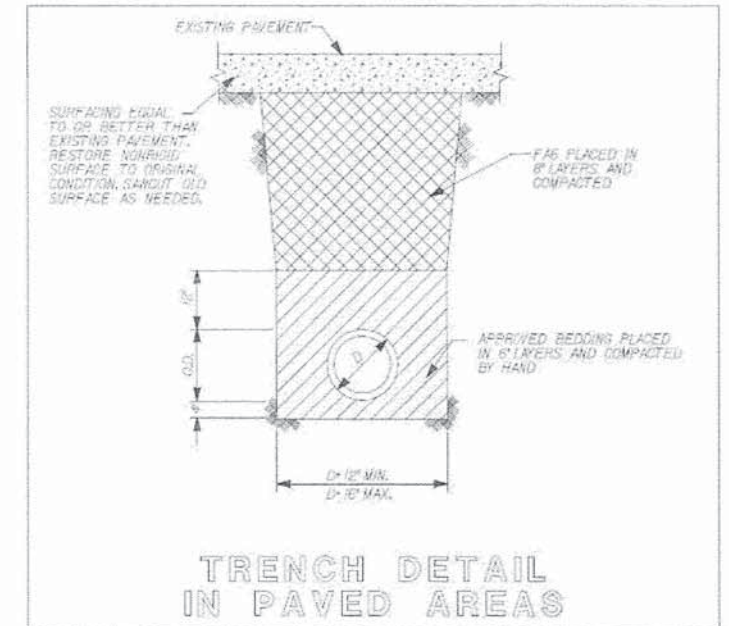
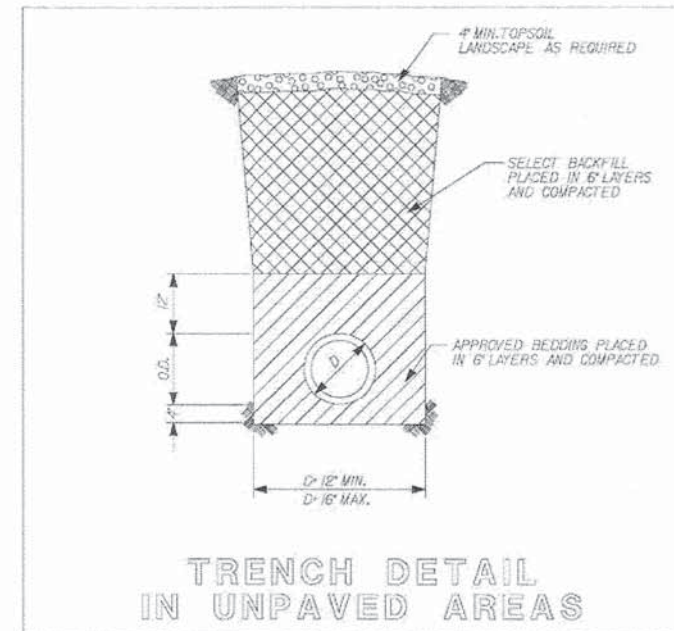
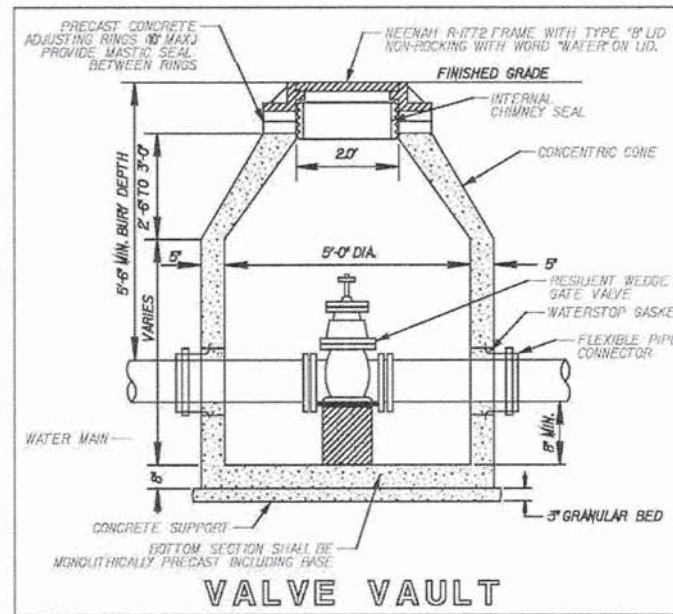
CASING PIPE SHALL BE WELDED IN ACCORDANCE WITH THE REQUIREMENTS OF AMERICAN WELDING SOCIETY (AWS) STANDARD D1.1.

CASING PIPE SHALL BE BITUMINOUS COATED INSIDE AND OUTSIDE IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO M190.

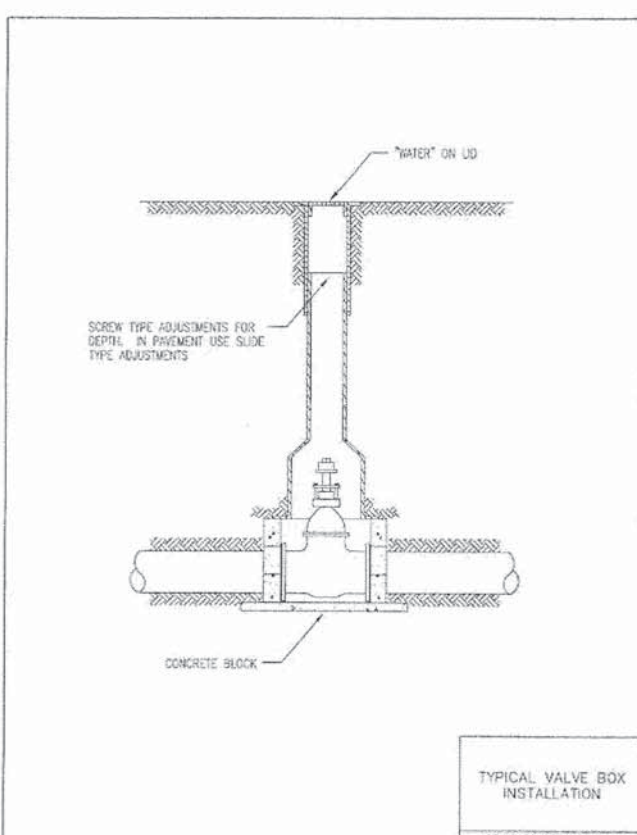
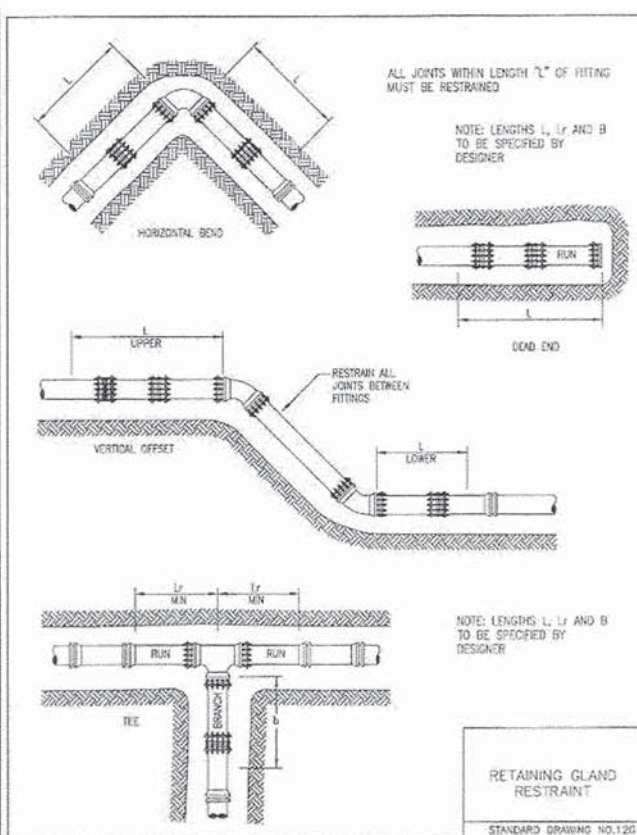
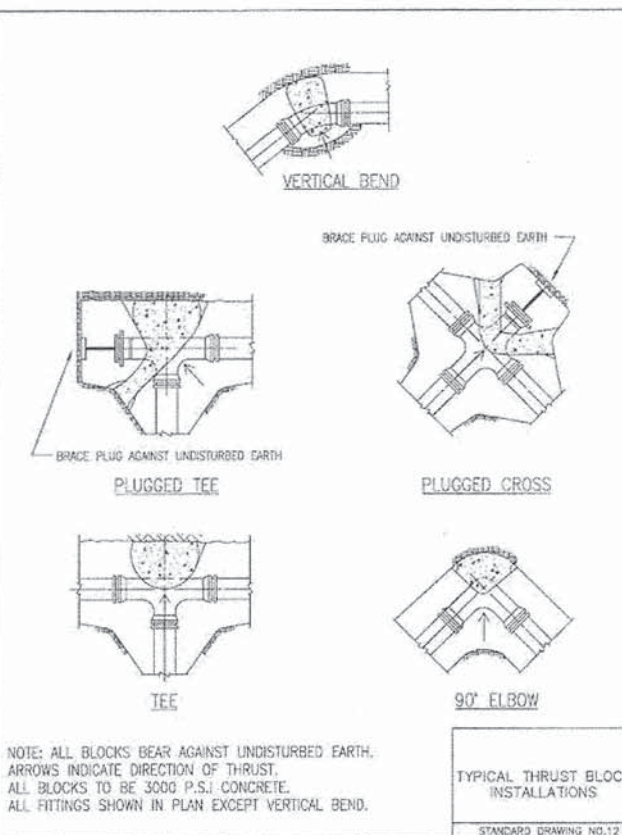
CASING CHOCKS SHALL BE STAINLESS STEEL, RESTRAINED CHOCKS AS MANUFACTURED BY CASCADE WATERWORKS MANUFACTURING CO., OR POWER SEAL PIPELINE PRODUCTS CORP.

CASING END SEALS SHALL BE SYNTHETIC RUBBER WITH TWO (2) STAINLESS STEEL BANDS AS MANUFACTURED BY CASCADE WATERWORKS MANUFACTURING CO. OR PIPELINE SEAL AND INSULATOR INC. END SEALS SHALL BE BONDED TO CASING PIPE AND DUCTILE IRON PIPE WATER MAIN WITH A BONDING CEMENT SUPPLIED BY THE END SEAL MANUFACTURER.

CARRIER PIPE SHALL BE RESTRAINED W/MEGA LUG RETAINERS.



- Notes:
1. Valve vaults shall be precast reinforced concrete units, conforming to ASTM C-478.
 2. Openings through which pipes enter the valve vault shall be blocked shut using solid concrete blocks, non-shrink or hydraulic grout. Cover the grouted area with a bituminous water proofing compound on the outside only.
 3. Precast sections shall be set in a full bed of bituminous mastic, or two continuous rows of pre-formed, bituminous mastic material (E-Z Stick or approved equal) to prevent inflow.
 4. Interior joints are to be dressed up with non-shrink or hydraulic grout.
 5. Pressure connections shall be made with a stainless steel tapping sleeve (Rockwell 662, 663, or approved equal). Tapping valve to be a resilient wedge gate valve.



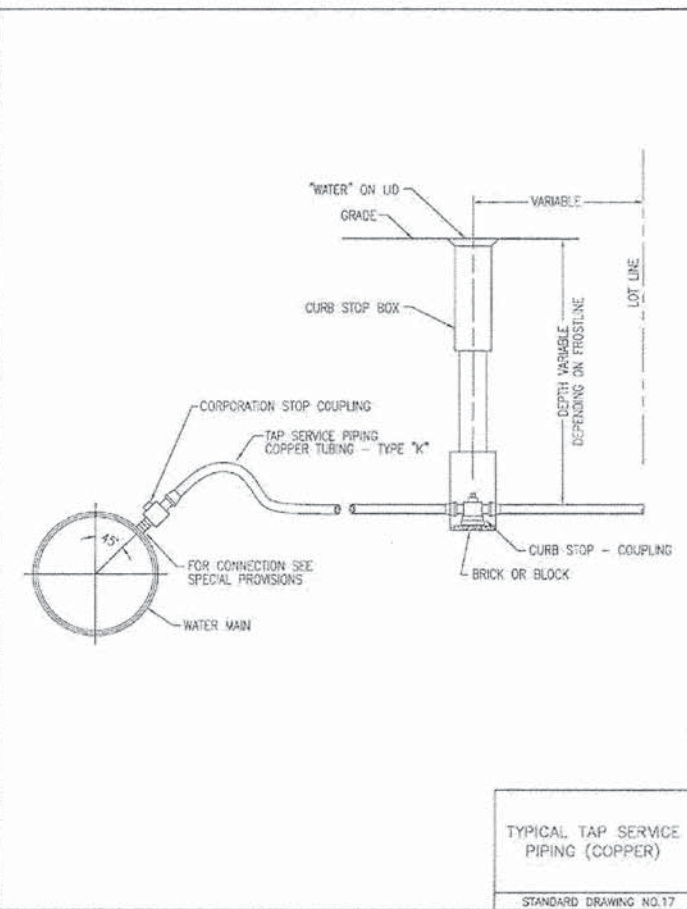
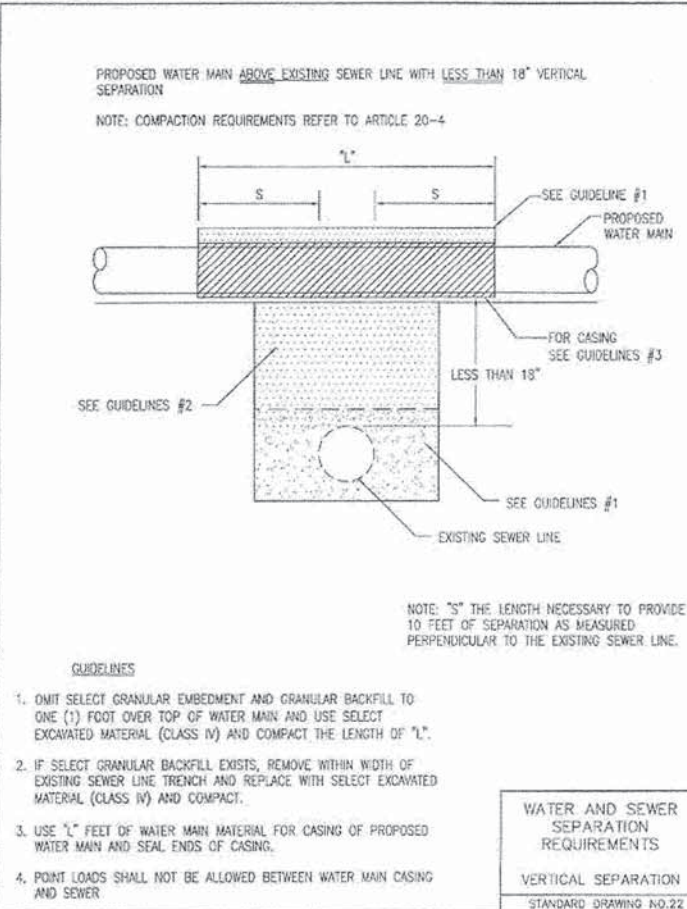
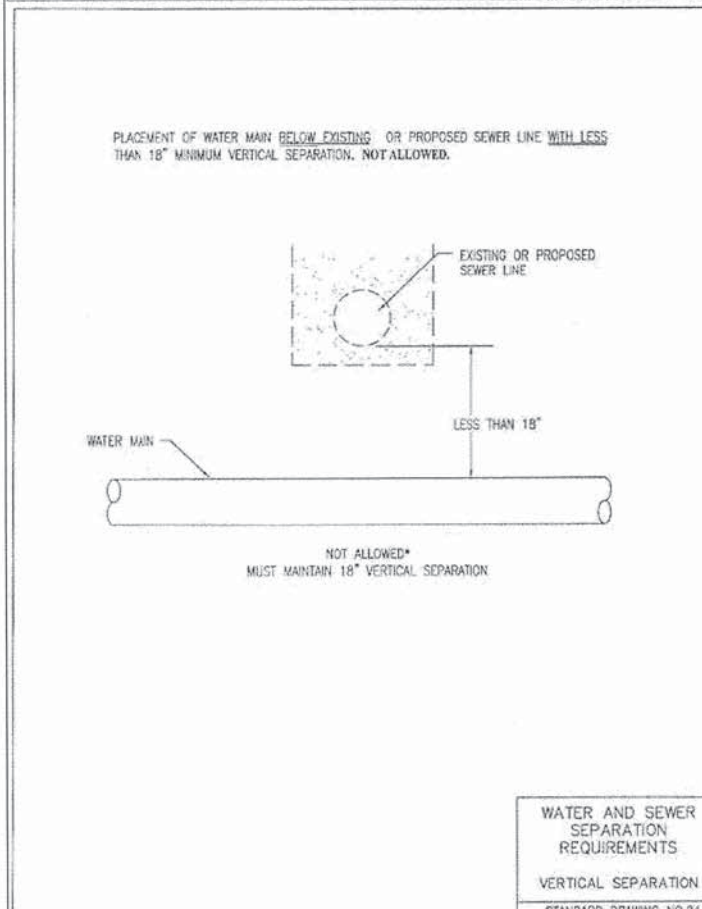
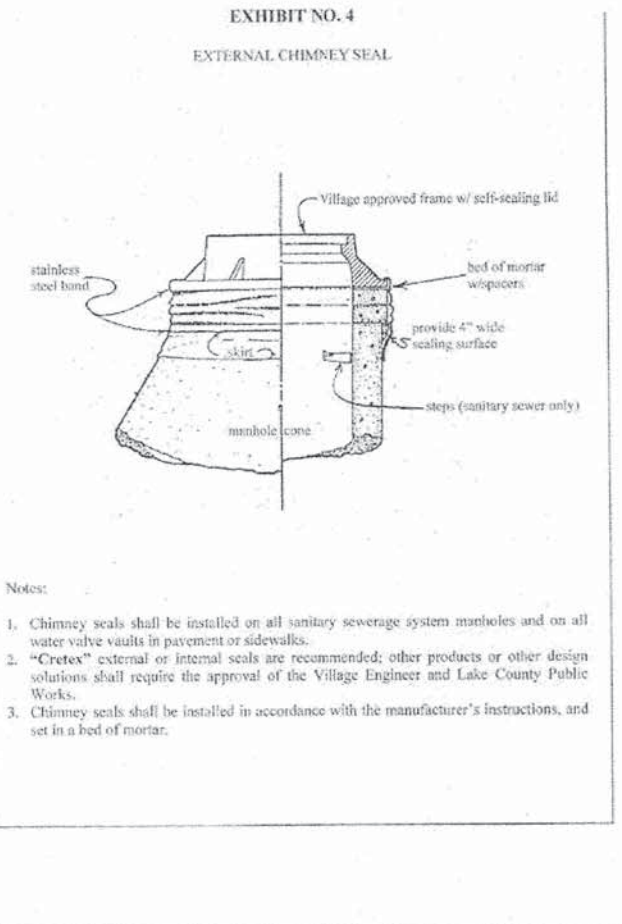
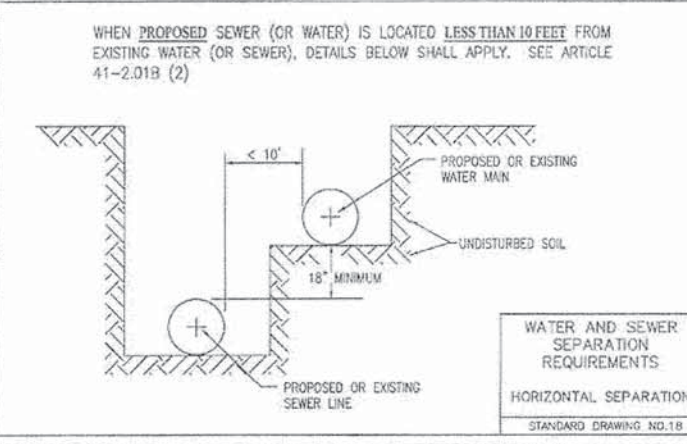
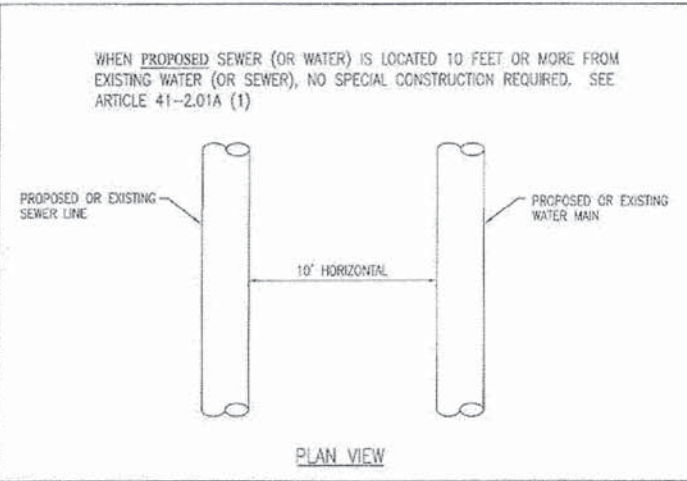
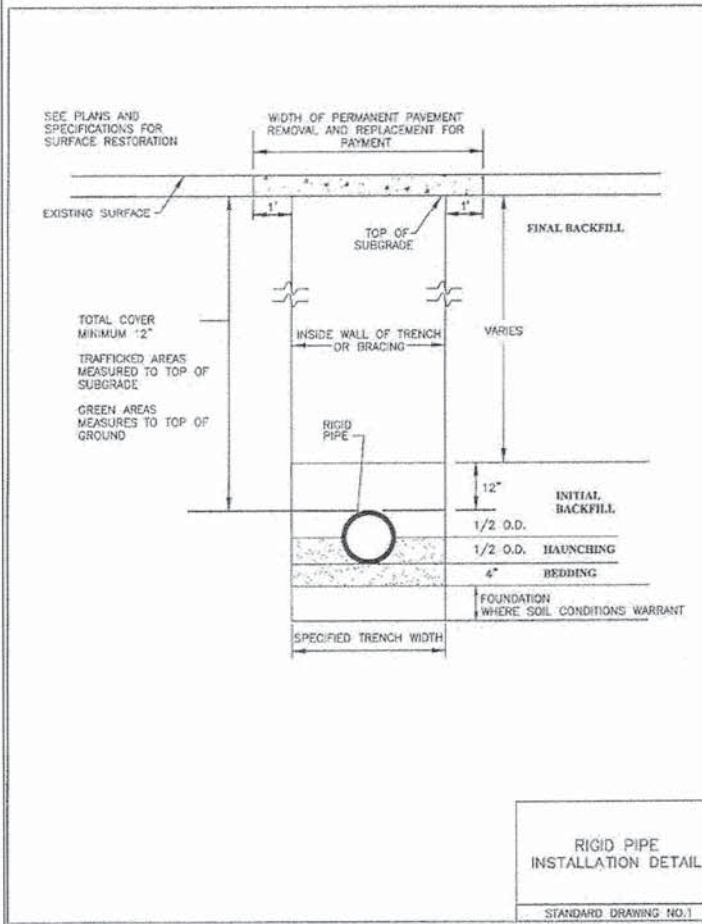
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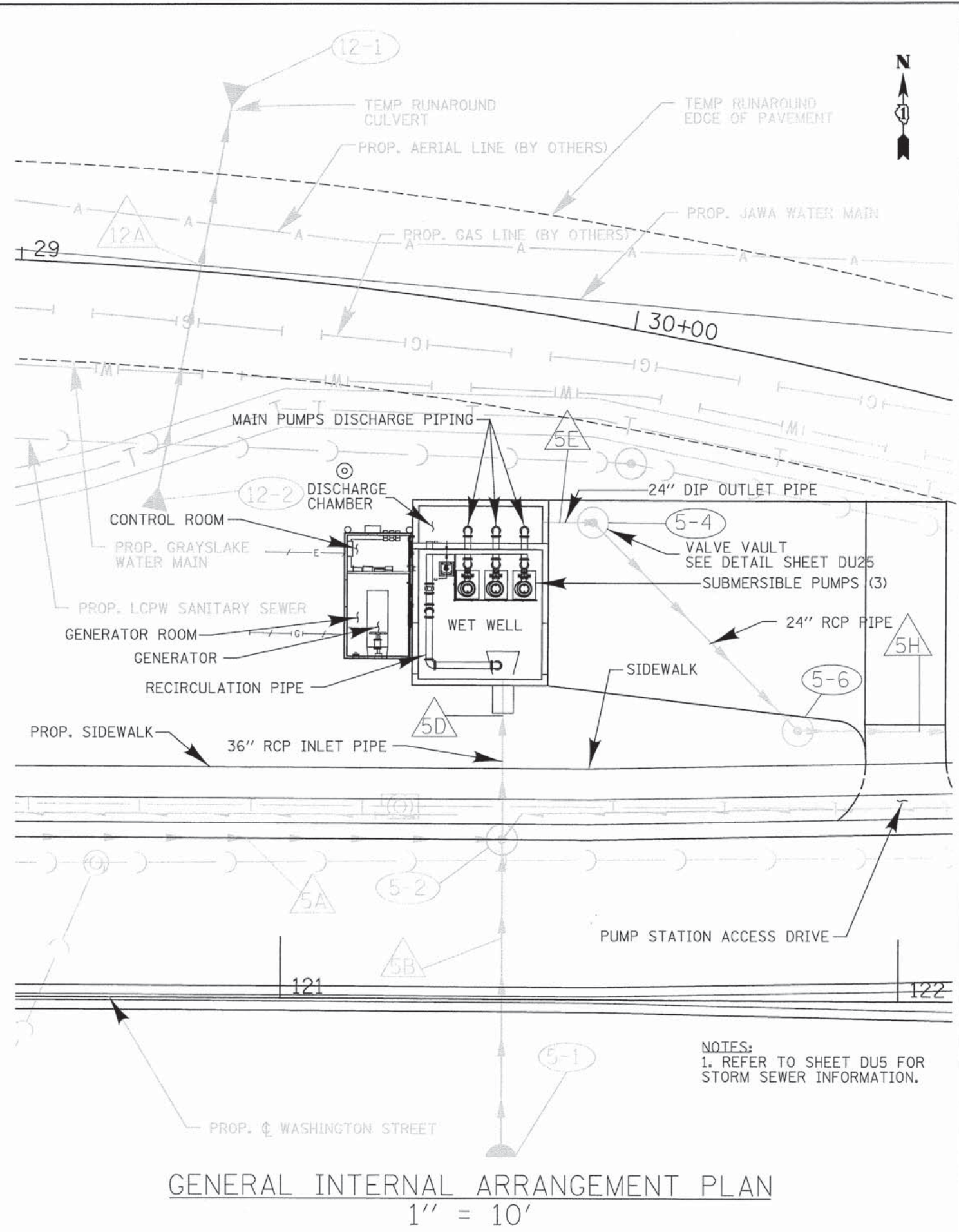
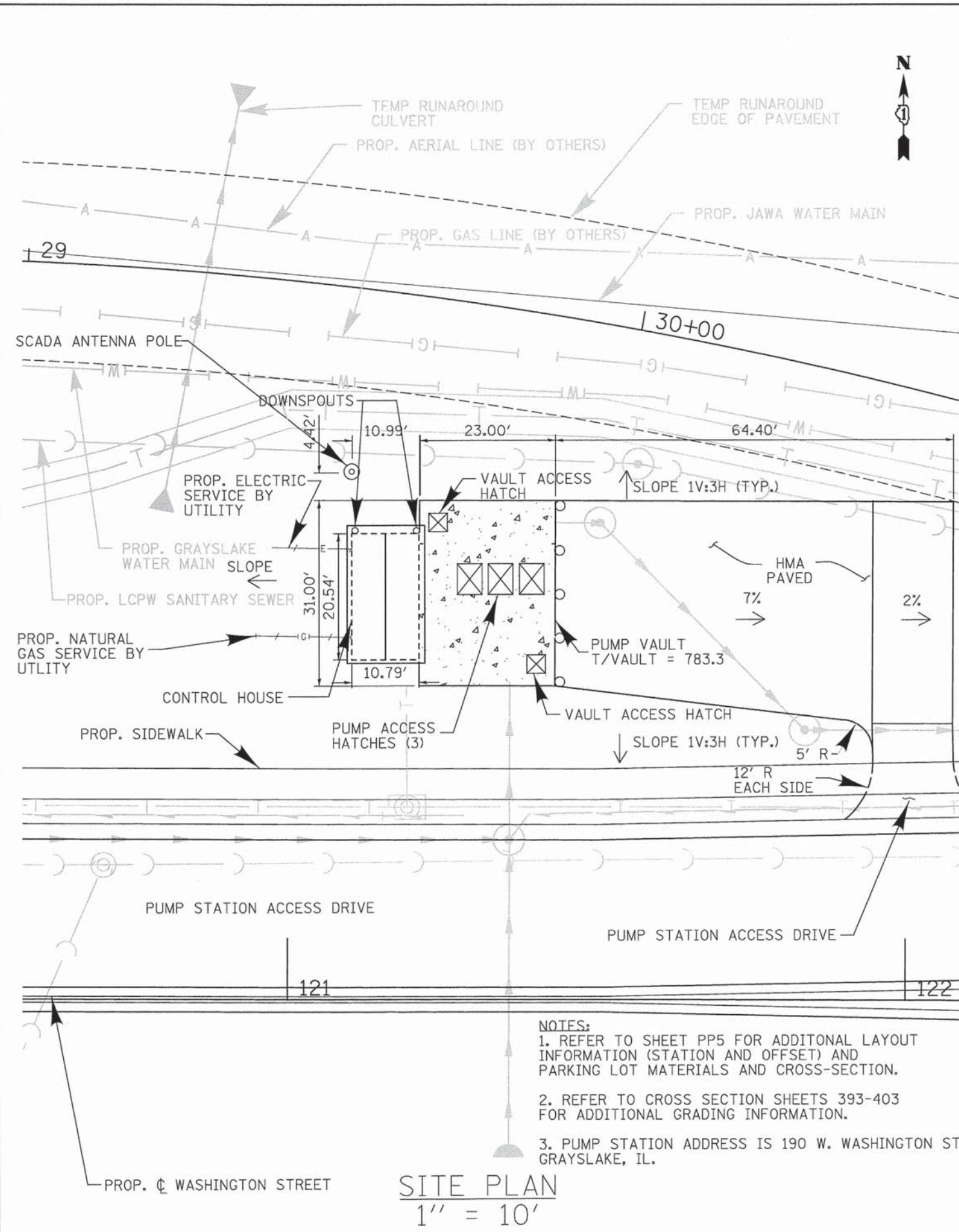
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
WATER MAIN DETAILS

SCALE: N.T.S. SHEET NO. DU 33 OF 34

F.A.U. R.T.E. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 134
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				





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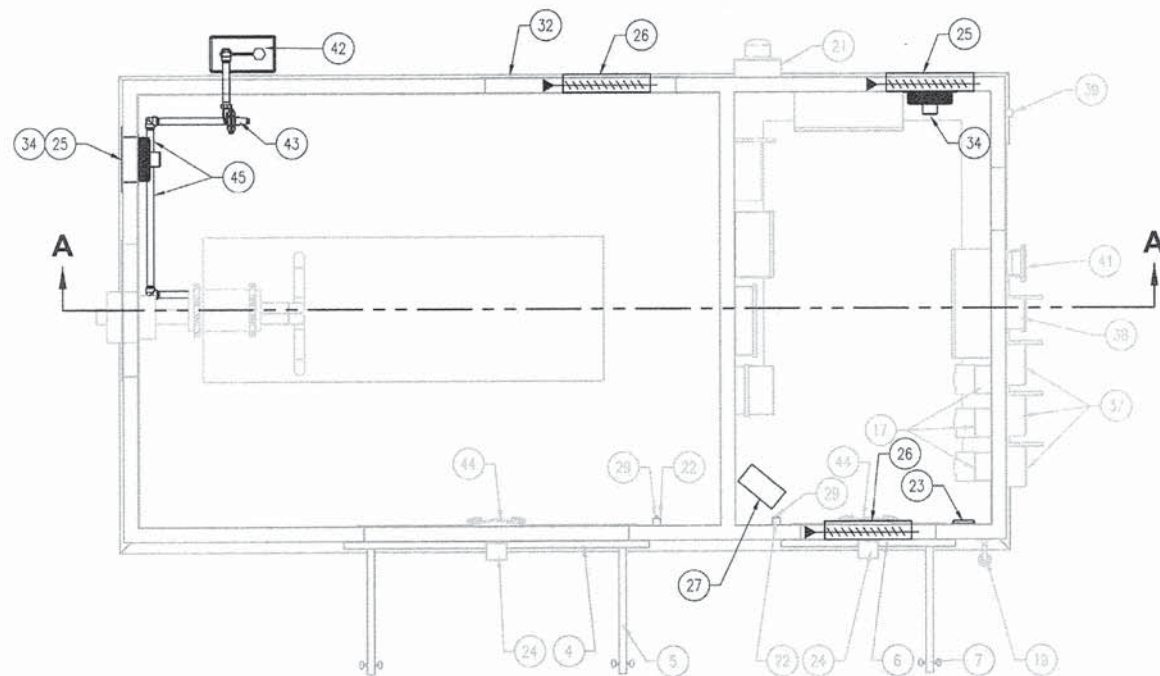
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STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

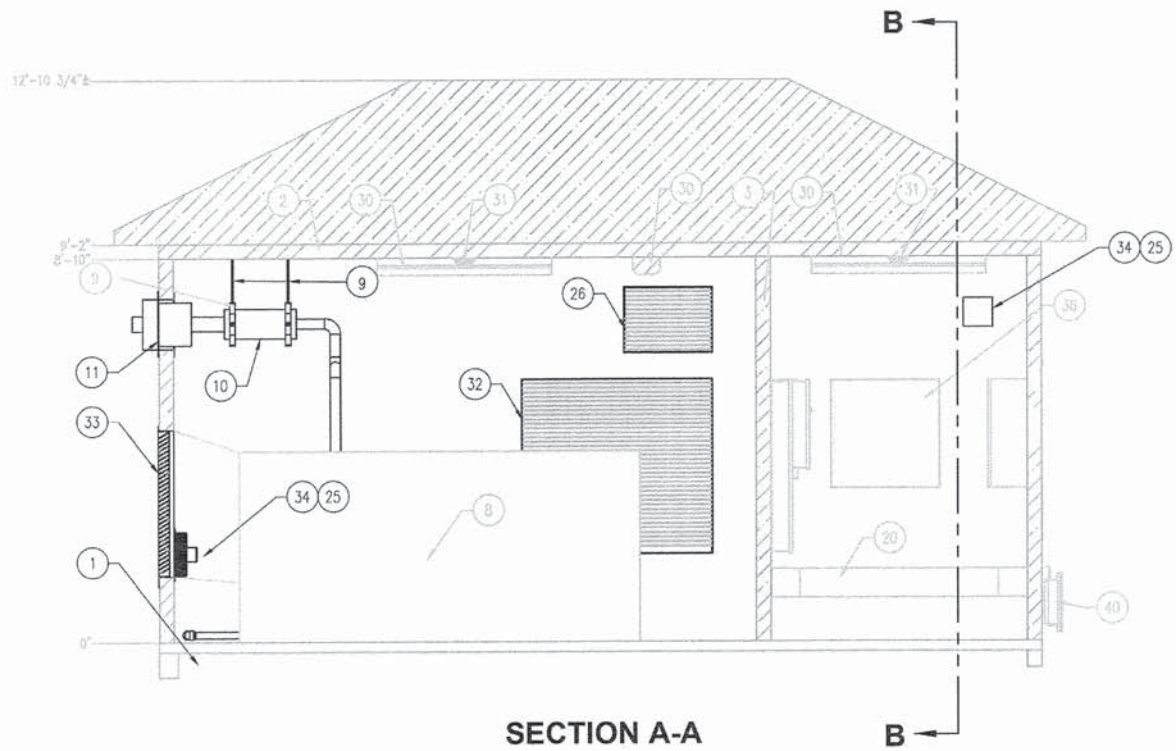
WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET	
PUMP STATION SITE PLAN	
SCALE: 1"=10'	SHEET NO. PS 1 OF 15
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
187	11-00121-11-BR	LAKE	496	136
61A63				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

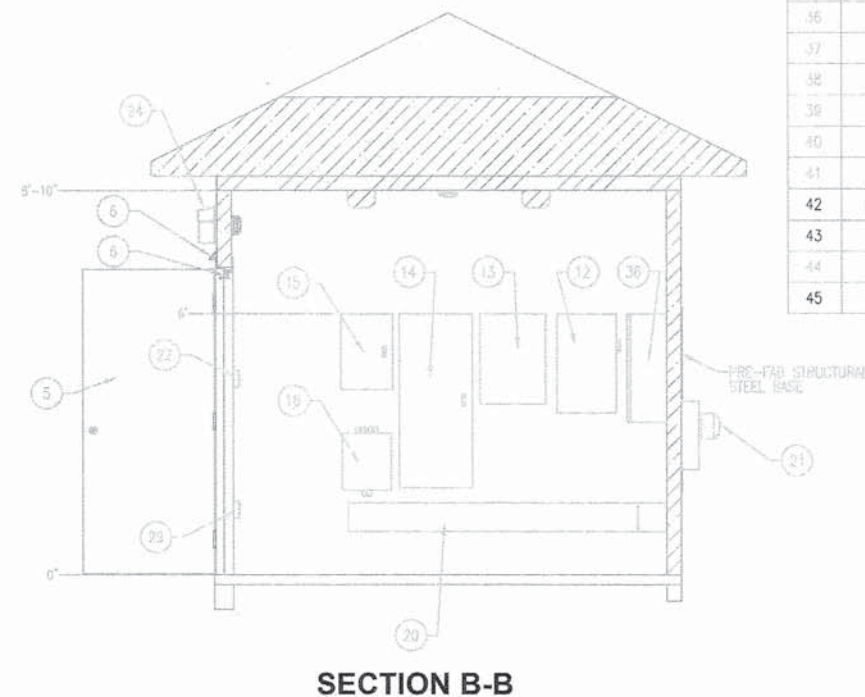
WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET	
PUMP STATION SITE PLAN	
SCALE: 1"=10'	SHEET NO. PS 1 OF 15
STA.	TO STA.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	STRUCTURAL STEEL BASE		1
2	BUILDING ROOF	INSULATED R28	1
3	BUILDING WALLS	INSULATED, R28	1
4	Drip Ledge, 72" DOUBLE DOOR		1
5	72" x 84" DOUBLE DOOR		1
6	Drip Ledge, 36" DOOR		1
7	DOOR	36" WIDE x 84" TALL	1
8	150 kW STANDBY GENERATOR	NATURAL GAS FUELED	1
9	SILENCER SUPPORT BRACKET		3
10	SILENCER		1
11	4" O.D. EXHAUST THIMBLE		1
12	MAIN DISCONNECT	200 AMP SERVICE ENTRANCE DISCONNECT	1
13	TRANSFER SWITCH	200 AMP AUTOMATIC TRANSFER SWITCH	1
14	PANEL BOARD	480 VOLT, 3 PHASE, 200 AMP	1
15	LIGHTING PANEL	SINGLE PHASE, 24 SPACES	1
16	10 KVA TRANSFORMER		1
17	VFD	25 THRU 40 HP (208/230 V), 50 THRU 75 HP (480V)	3
18	C-50301010	CONTROL PANEL	1
19	ALARM LIGHT		1
20	WIRING TROUGH		1
21	METER - BY OTHERS		1
22	LIGHT SWITCH	115 VAC	2
23	THERMOSTAT		1
24	WALL LIGHT	OUTDOOR - 5800K	2
25	LOUVER WITH GRAVITY DAMPER	24X24	
26	LOUVER WITH DAMPER	24X18	1
27	UNIT HEATER	3.75KW, 208V 3Ø	1
28	UNIT SWITCH		2
29	DEXUPLEX OUTLET	115 VAC	2
30	48" FLUORESCENT LIGHT	115 VOLT - SUITABLE FOR DAMP LOCATIONS	5
31	COMBINATION SMOKE/CO DETECTOR		2
32	48"x52" LOUVER	INTAKE	1
33	36"x40" LOUVER	EXHAUST	1
34	12" EXHAUST FAN	120V, 1Ø, 1/12 HP, CORROSION RESISTANT	2
35	HIP ROOF	FIELD ERECTED	1
36	SCADA PANEL	BY OTHERS	1
37	MAIN DISCONNECT	FUSIBLE	3
38	50 AMP LOCAL DISCONNECT	NON FUSIBLE DISCONNECT	1
39	EXTERIOR OUTLET	115 VAC	1
40	JUNCTION BOX (TYPE) LABELS	ALUMINUM EXPLOSION PROOF JUNCTION BOX	4
41	JUNCTION BOX LEVEL ORCHOLS	ALUMINUM EXPLOSION PROOF JUNCTION BOX	1
42	GAS METER & PRIMARY REGULATOR	BY OTHERS	1
43	NATURAL GAS REGULATOR	14" WC	1
44	EMERGENCY LIGHTS		2
45	2" NATURAL GAS PIPING	SCH 40 BLACK STL. WELDED OR SCREWED	2



SECTION A-A



SECTION B-B

NOTE:
1. BUILDING SHOWN FOR MECHANICAL LAYOUT REFERENCE ONLY

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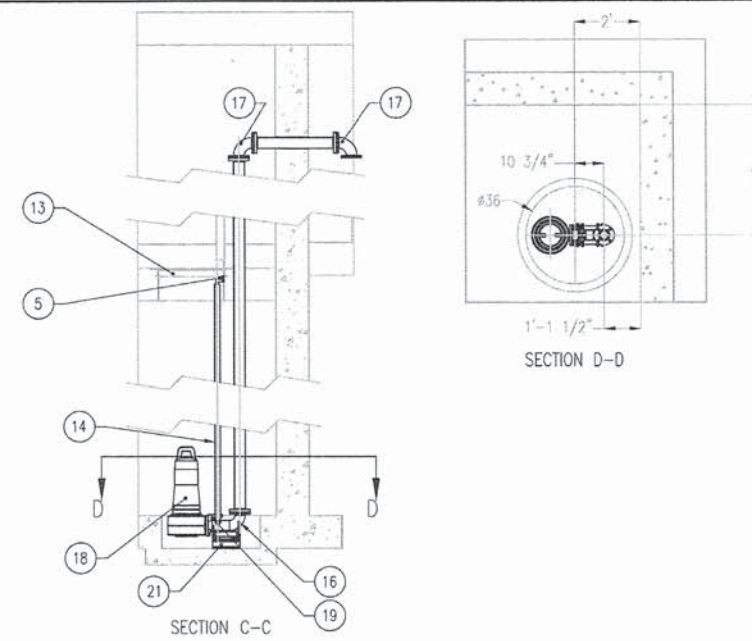
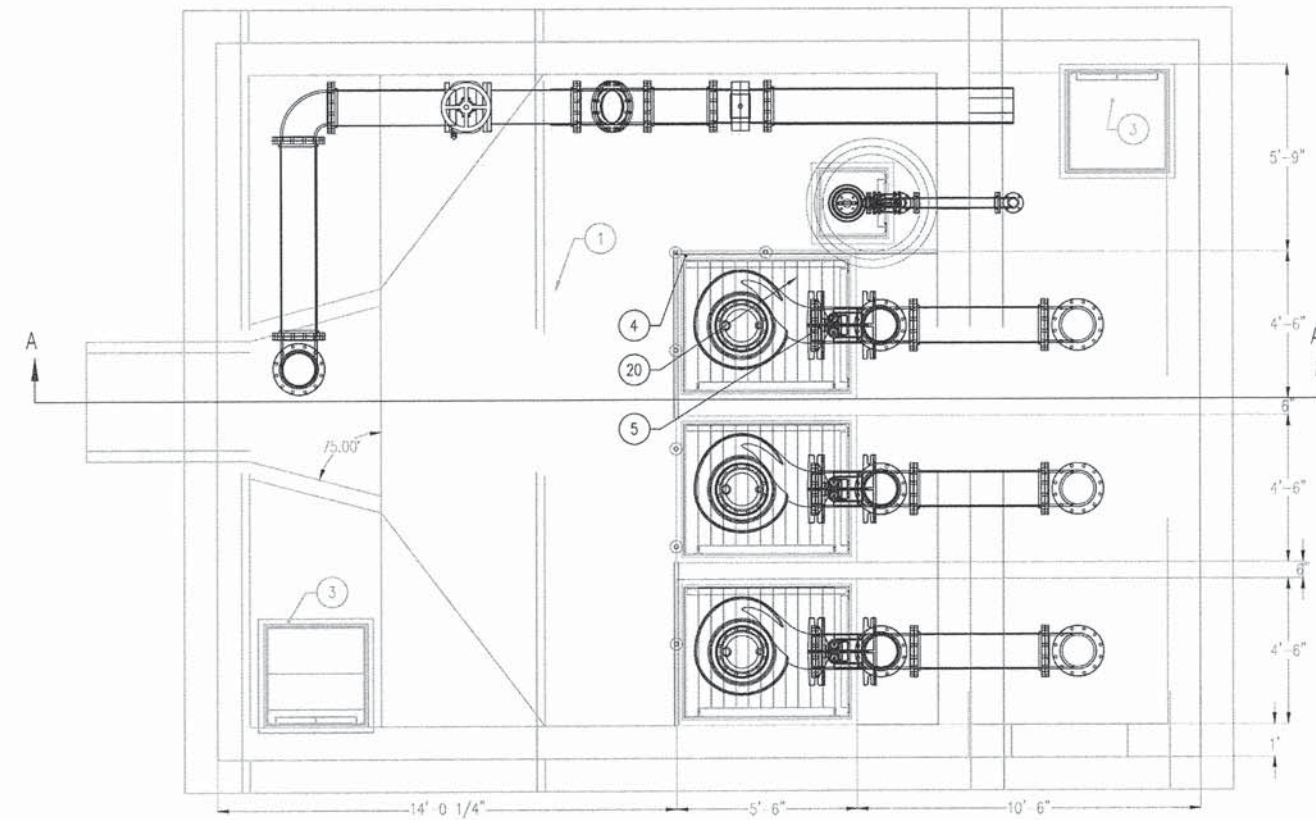
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

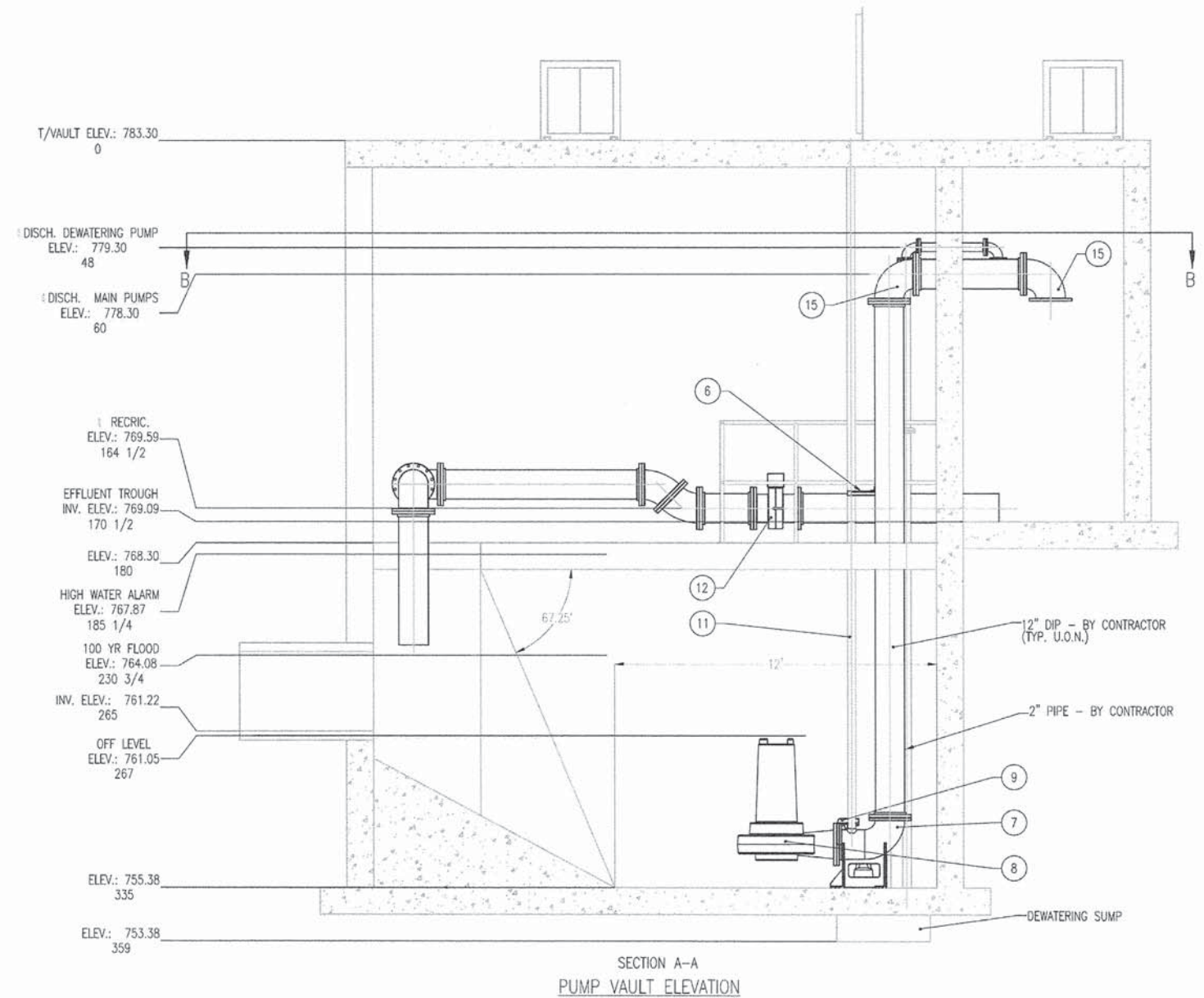
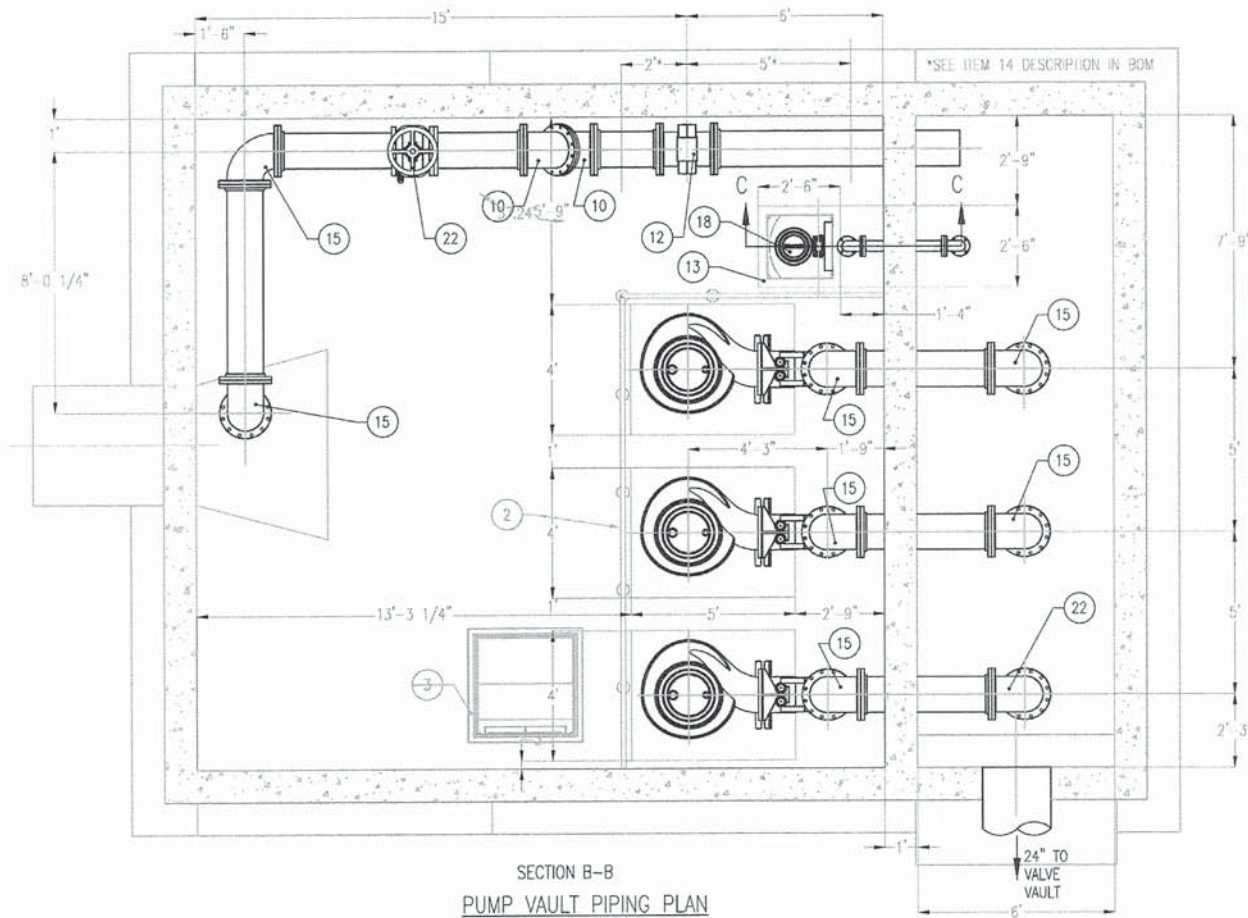
WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
PUMP STATION GENERATOR/CONTROL HOUSE MECHANICAL PLAN

SCALE: SHEET NO. PS 2 OF 15 STA. TO STA.

F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 137
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		61A63		



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	WET WELL	REFER TO STRUCTURAL DRAWINGS	1
2	RAILING	REFER TO STRUCTURAL DRAWINGS	1
3	APS300-16x36	36"x36" OPENING	2
4	APS300-8x48		3
5	UPPER GUIDE RAIL SUPPORT	FOR 3" GUIDE RAILS (3" MTM SYSTEM)	4
6	INTERMEDIATE GUIDE RAIL SUPPORT 3IN RAILS	3" GUIDE RAILS	3
7	12" MTM ELBOW		3
8	SUBMERSIBLE SEWAGE PUMP	12" DISCHARGE	3
9	12" MTM SEALING FLANGE		3
10	12" - 45 DEG ELBOW	FLANGED FITTING	2
11	3" GUIDE RAIL	SCHED. 40 STAINLESS STEEL PIPE	12
12	12" FLOW METER	MAG METER - 3" PIPE DIA. REQ. UP STREAM & 2" PIPE DIA. REQ. DOWN STREAM	1
13	APS300-24x24	ALUMINUM ACCESS HATCH - TO BE SHIPPED LOOSE - CONTRACTOR TO INSTALL IN FIELD	1
14	3" GUIDE RAIL	SCHED. 40 STAINLESS STEEL PIPE	2
15	12" S.R. ELBOW	D.I. FITTING	8
16	3" MTM ELBOW	BASE ELBOW 3" MTM	1
17	3" S.R. ELBOW	D.I. FITTING	2
18	FA 08.52W	SUBMERSIBLE SEWAGE PUMP	1
19	3" MTM SEALING FLANGE		1
20	SAFETY GRATE		3
21	DEWATERING PUMP BASE ELBOW SPACER		1
22	12" GATE VALVE		1



SECTION B-B
PUMP VAULT PIPING PLAN

SECTION A-A
PUMP VAULT ELEVATION

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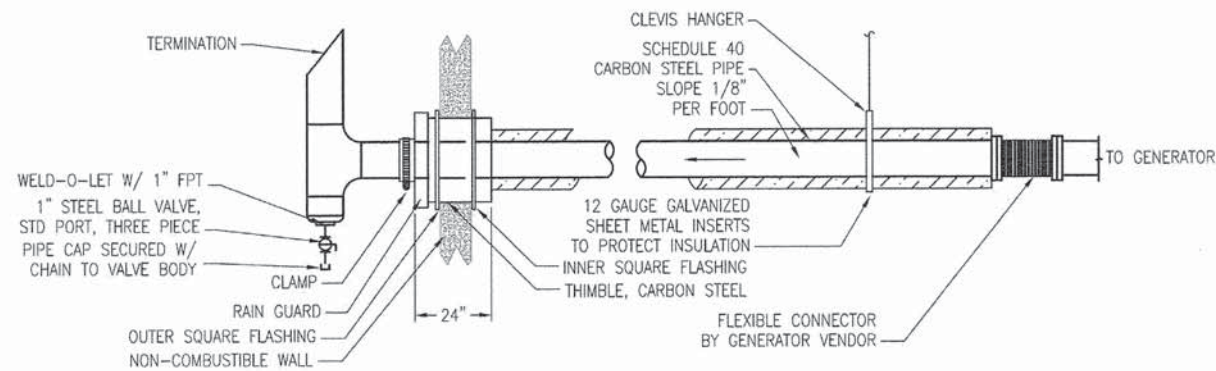
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

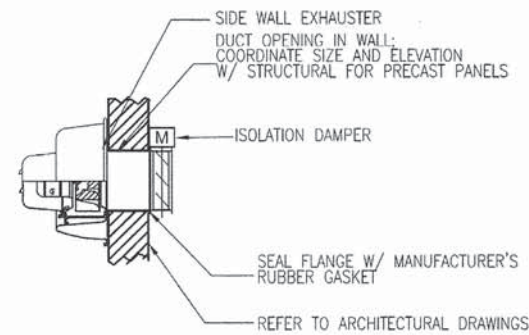
WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
PUMP STATION WET WELL MECHANICAL PLAN

F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 138
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			61A63	

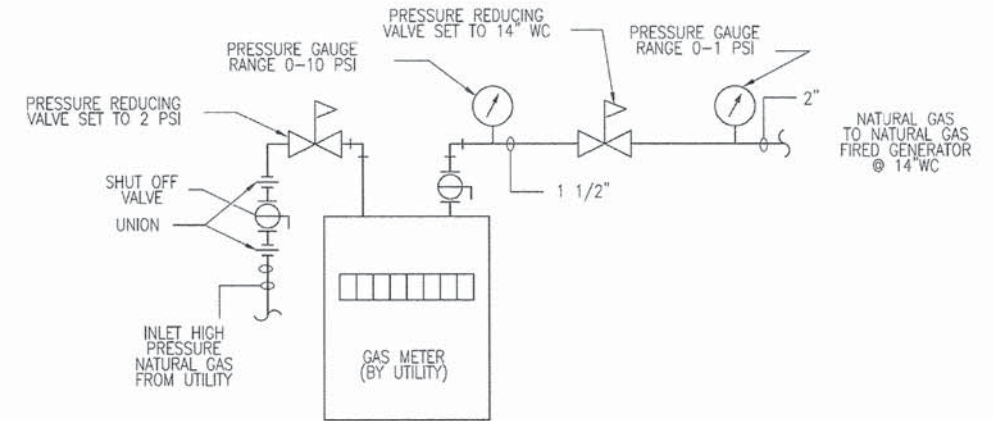
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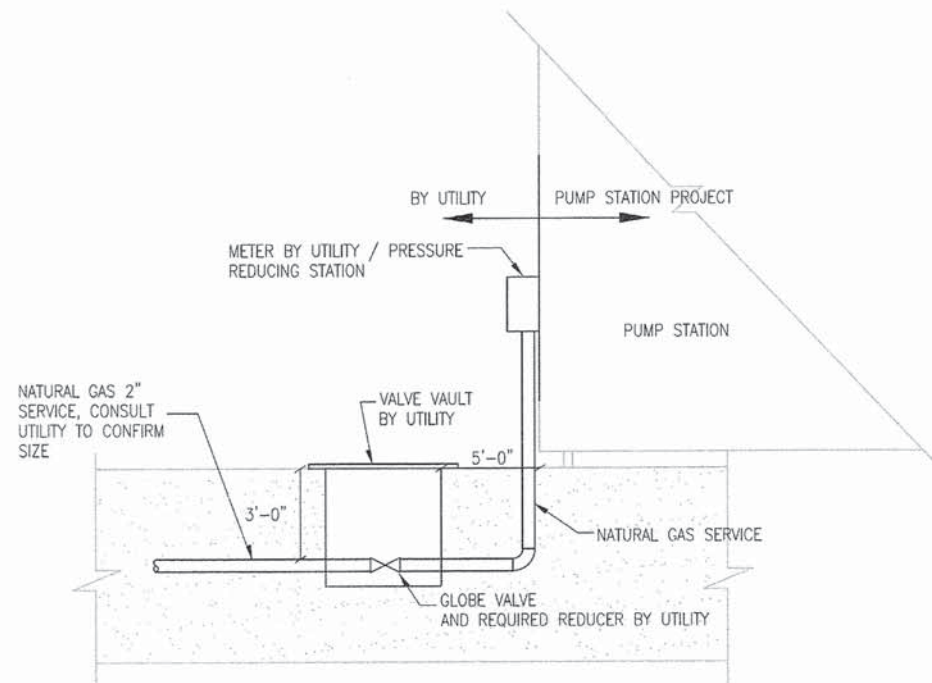
1 GENERATOR EXHAUST PIPING DETAIL
PS4 N.T.S.



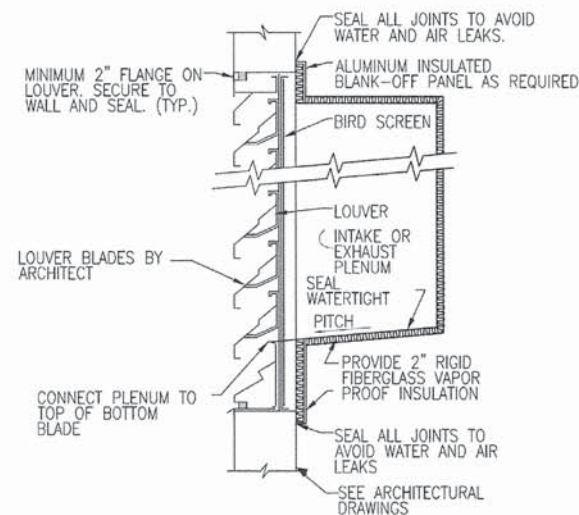
2 SIDE WALL EXHAUSTER
PS4 N.T.S.



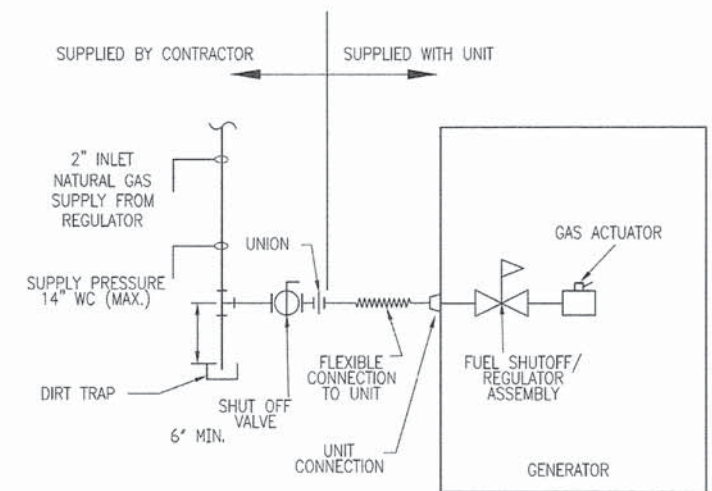
3 GAS METER PIPING DETAIL
PS4 N.T.S.



4 OUTSIDE GAS CONNECTION DETAIL
PS4 N.T.S.



5 LOUVER DETAIL
PS4 N.T.S.



6 GENERATOR GAS PIPING DETAIL
PS4 N.T.S.

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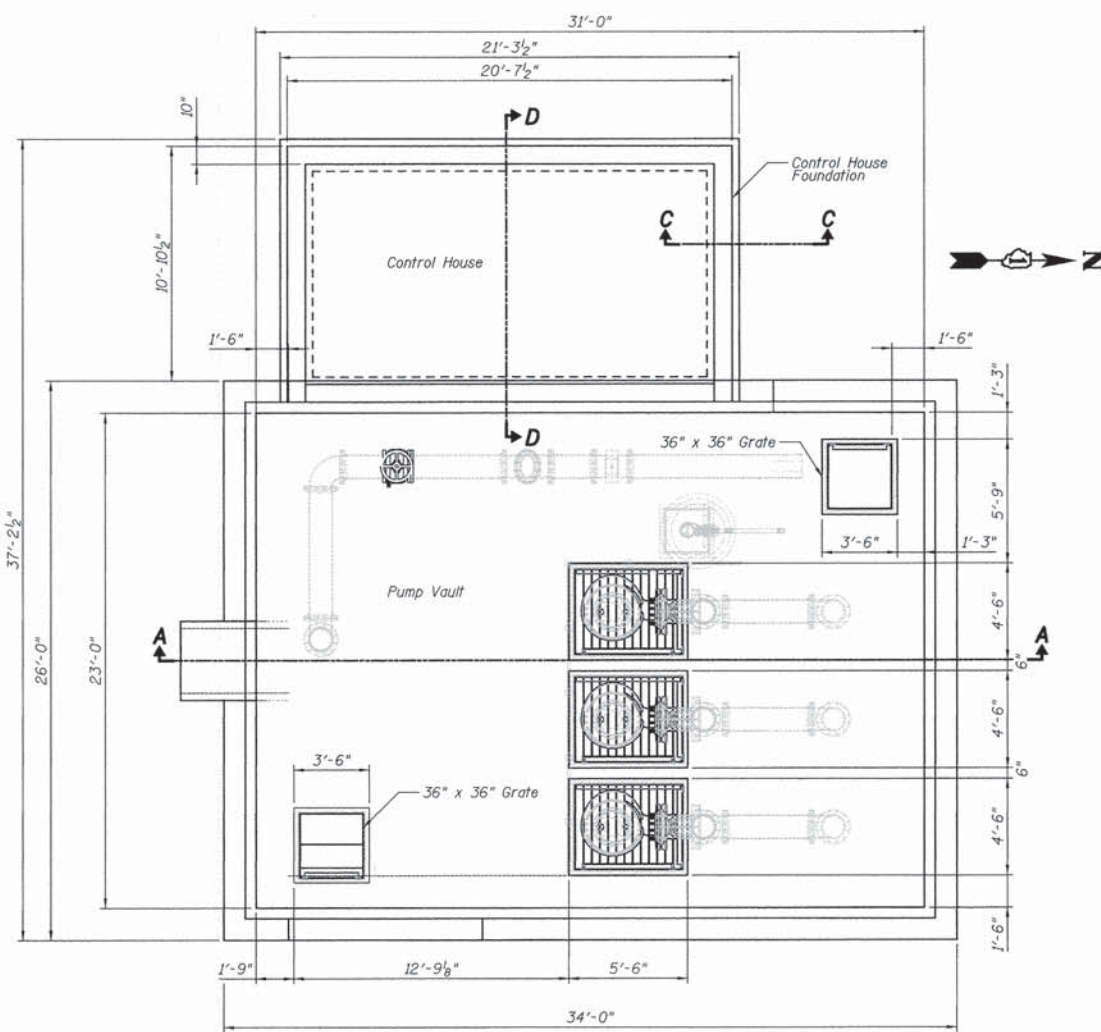
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

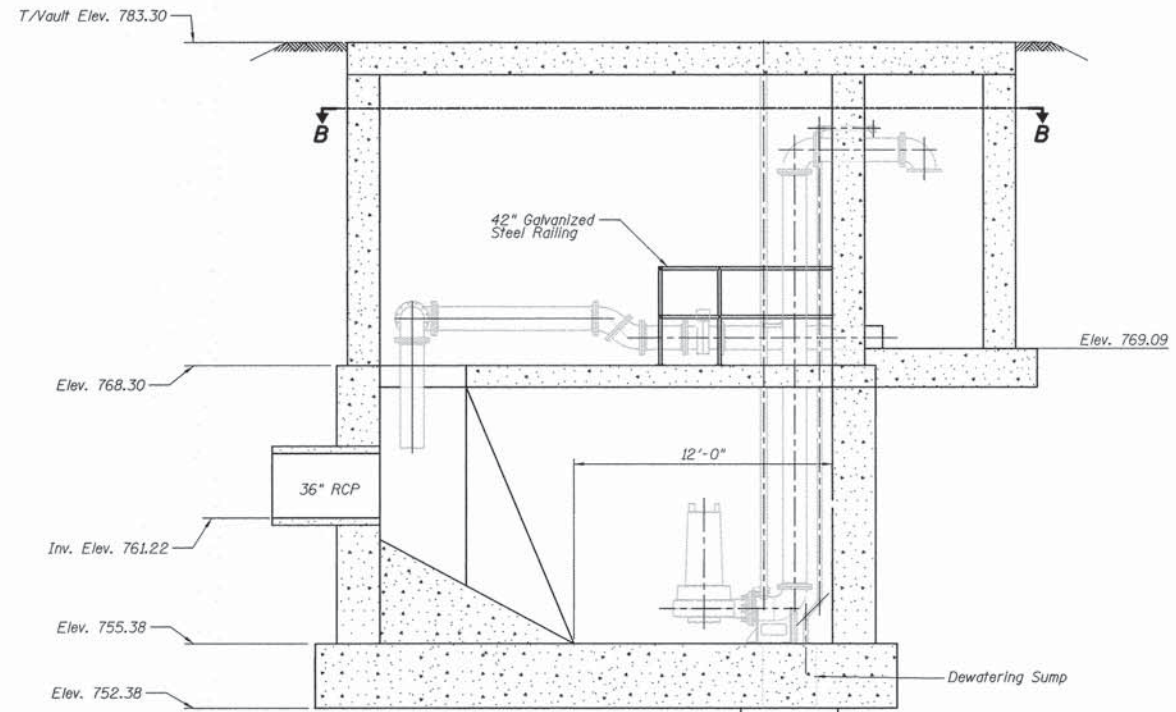
WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
PUMP STATION MECHANICAL DETAILS

SCALE: 1"=50'	SHEET NO. PS 4 OF 15	STA. TO STA.	F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 139
			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

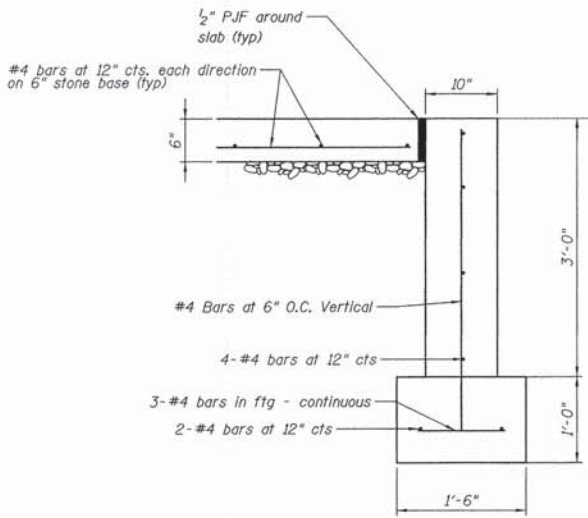
61A63



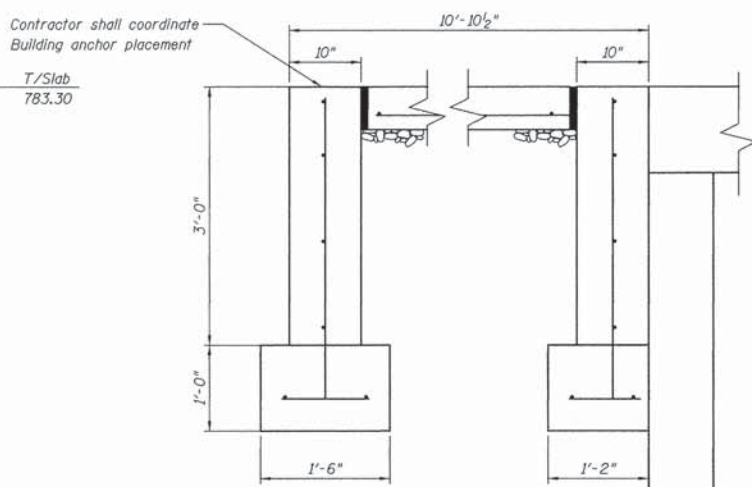
LAYOUT PLAN- TOP OF VAULT



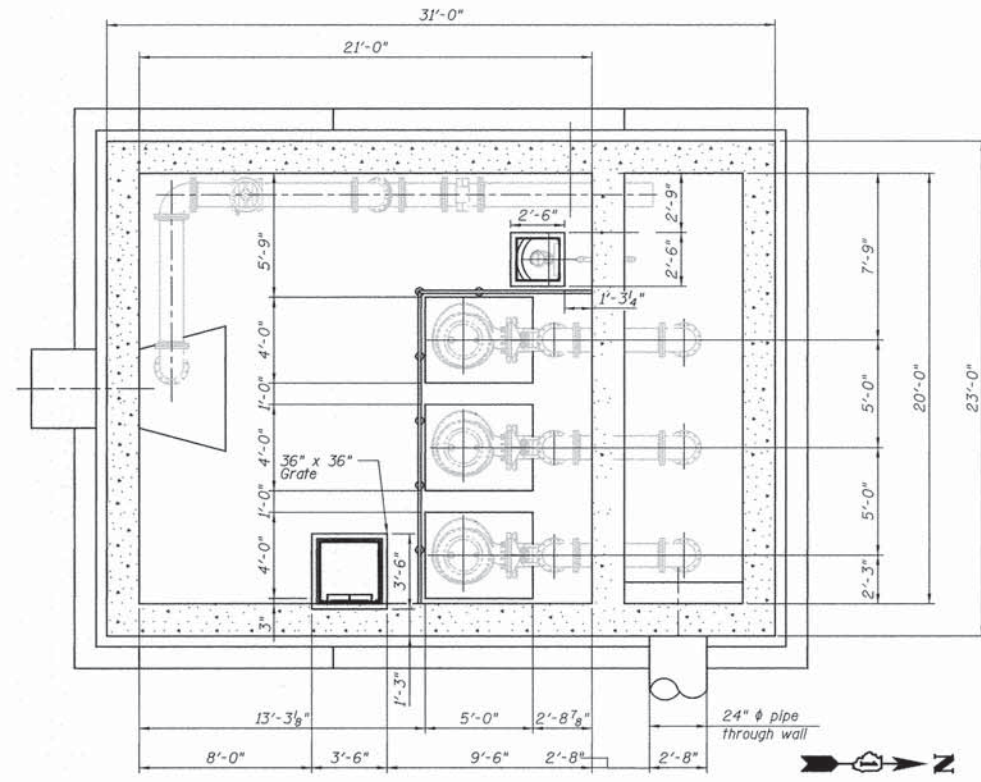
SECTION A-A



SECTION C-C



SECTION D-D



SECTION B-B



Sarah L. Czapliski
 SARAH L. CZAPLICKI, S.E. 7/2/2014
 NO. 081-006191
 EXP. DATE: 11/30/14

Notes:
 Contractor shall coordinate and verify all wall penetrations size and locations with electrical mechanical components prior to placing concrete.

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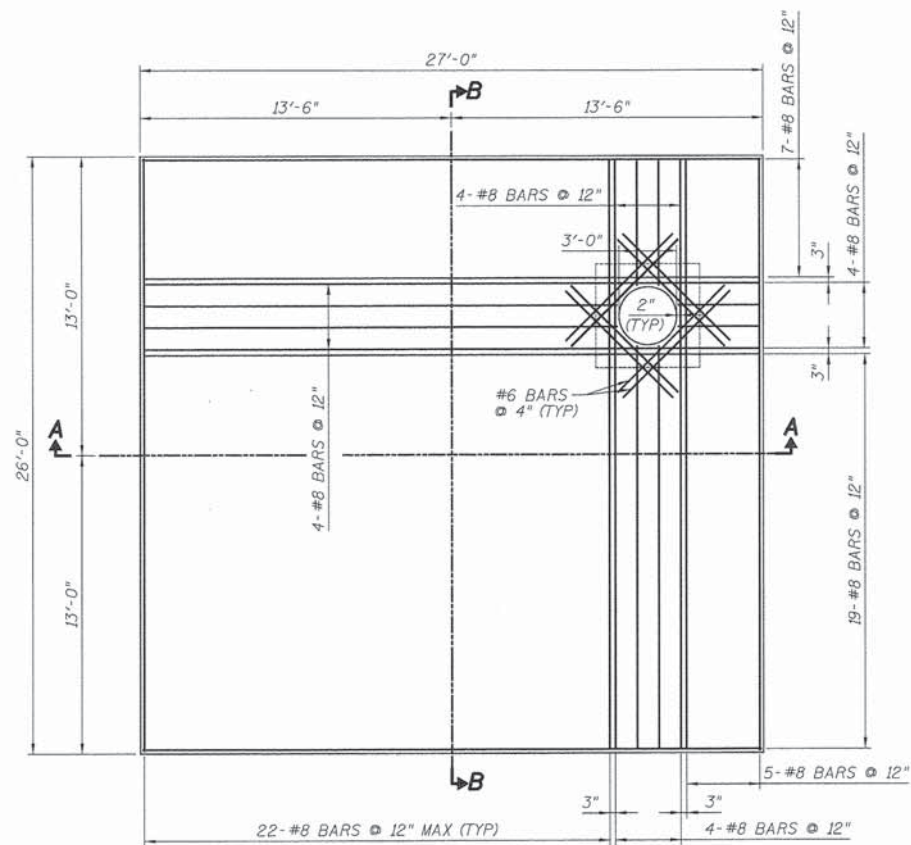
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

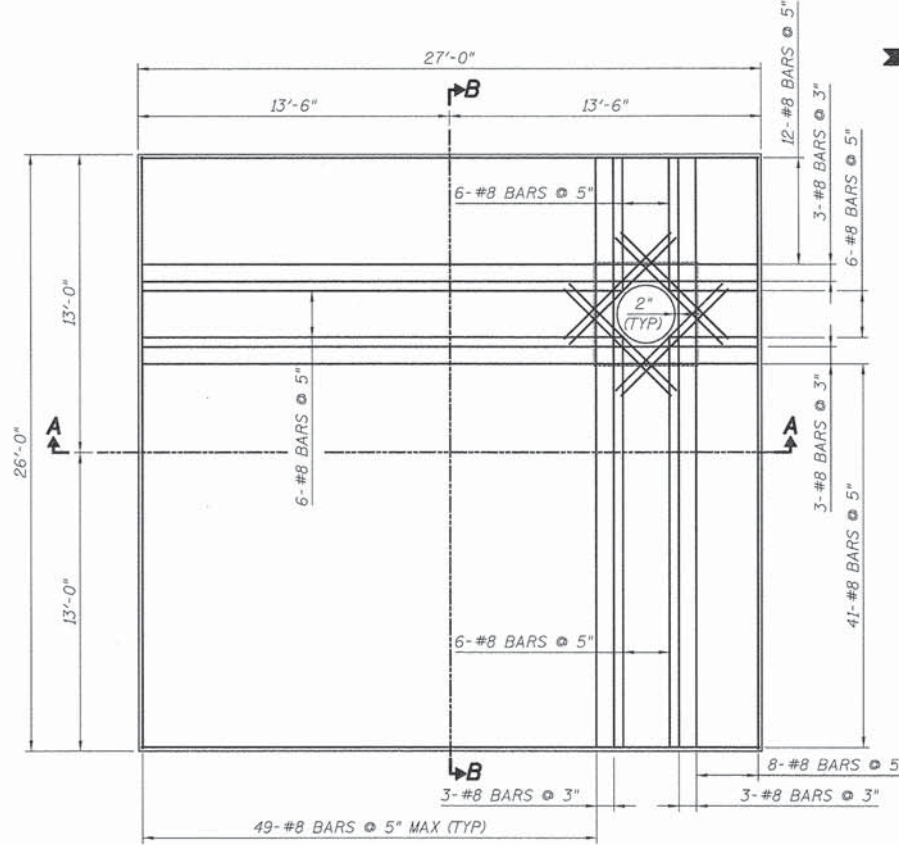
WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
PUMP STATION VAULT - STRUCTURAL GENERAL PLAN AND ELEVATION

SCALE: 1"=50' SHEET NO. PS 5 OF 15 STA. TO STA.

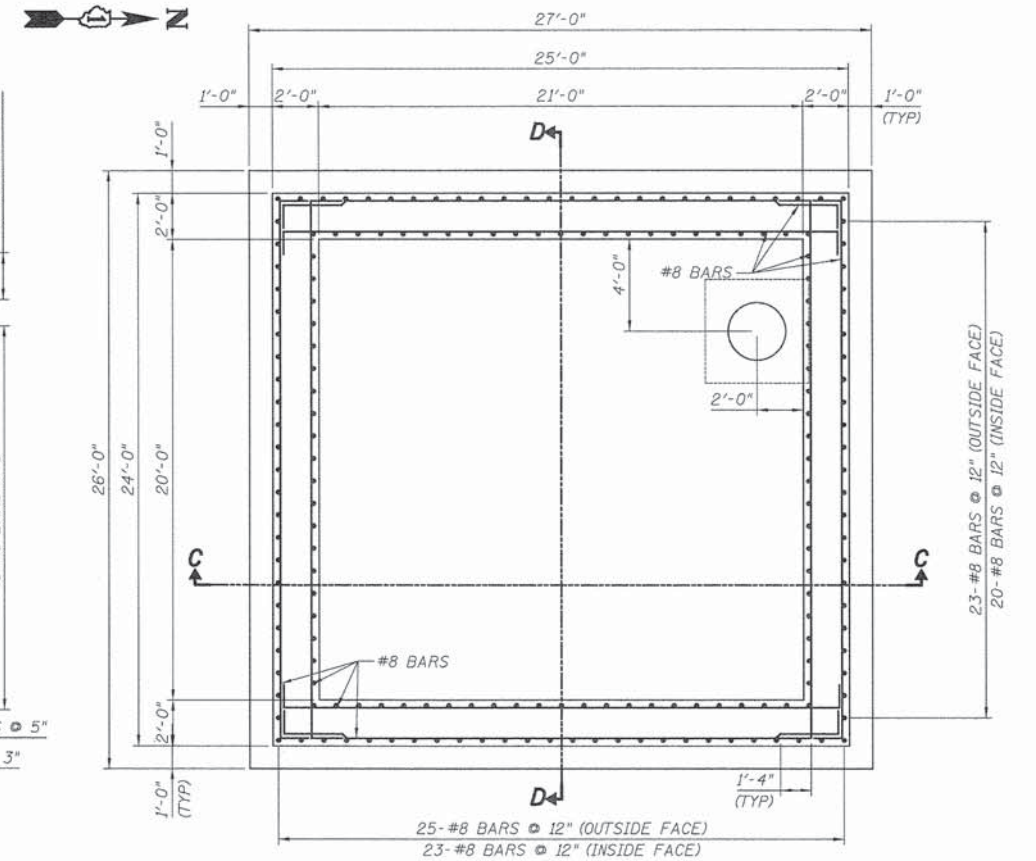
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.			[ILLINOIS] FED. AID PROJECT	
			CONTRACT NO. 61A63	



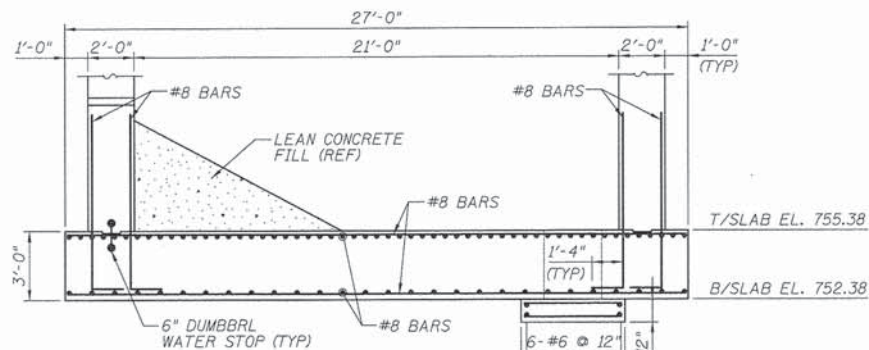
BOTTOM SLAB REINFORCEMENT PLAN
(BOTTOM LAYER)
SCALE: 1/4" = 1'-0"



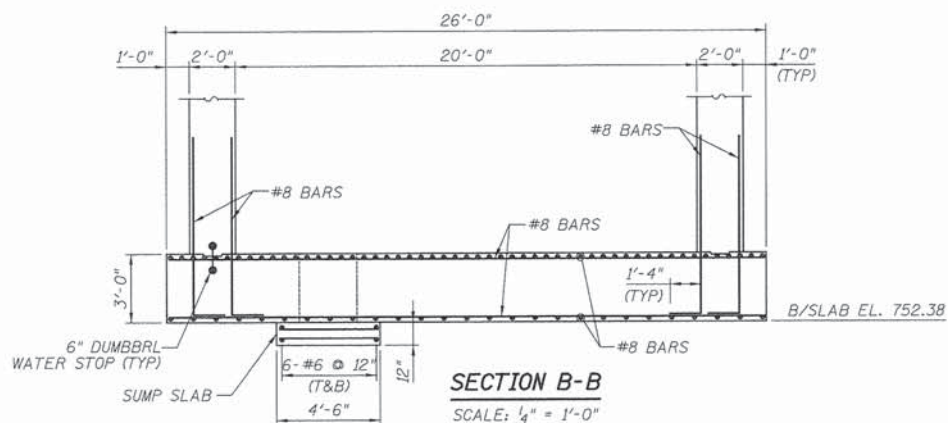
BOTTOM SLAB REINFORCEMENT PLAN
(TOP LAYER)
SCALE: 1/4" = 1'-0"



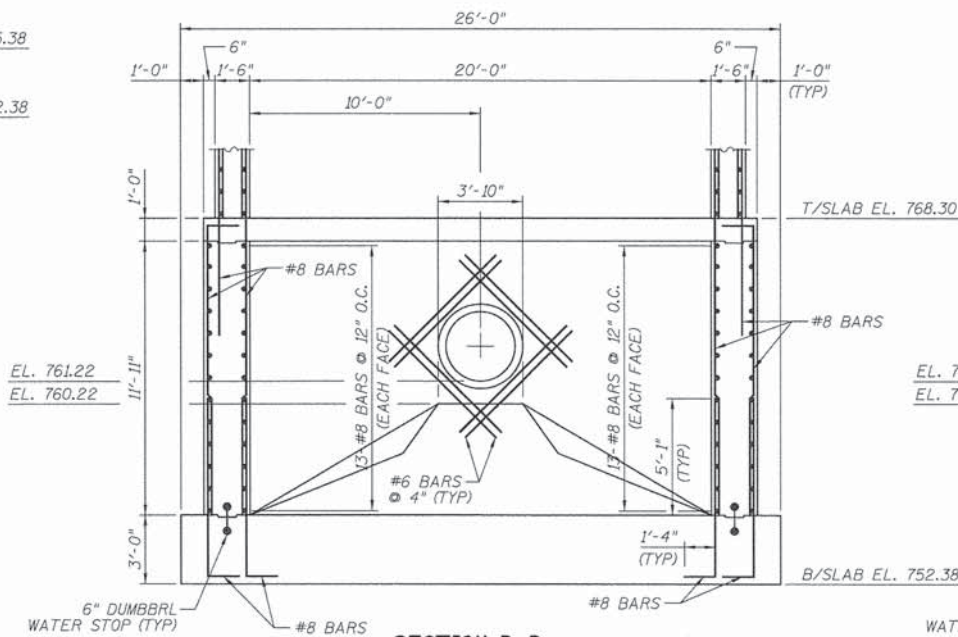
PUMP STATION LOWER CHAMBER
WALL REINFORCEMENT PLAN
SCALE: 1/4" = 1'-0"



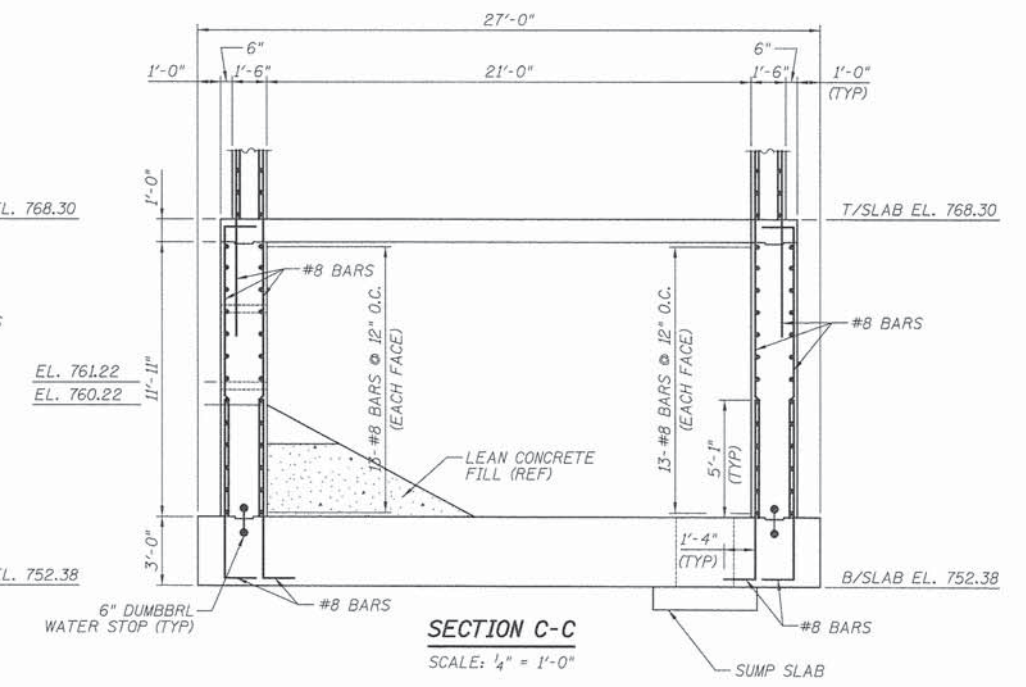
SECTION A-A
SCALE: 1/4" = 1'-0"



SECTION B-B
SCALE: 1/4" = 1'-0"



SECTION D-D
SCALE: 1/4" = 1'-0"



SECTION C-C
SCALE: 1/4" = 1'-0"

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PATRICK ENGINEERING
PATRICK ENGINEERING INC.
4970 VARSITY DRIVE
LISLE, IL 60532
patrickengineering.com

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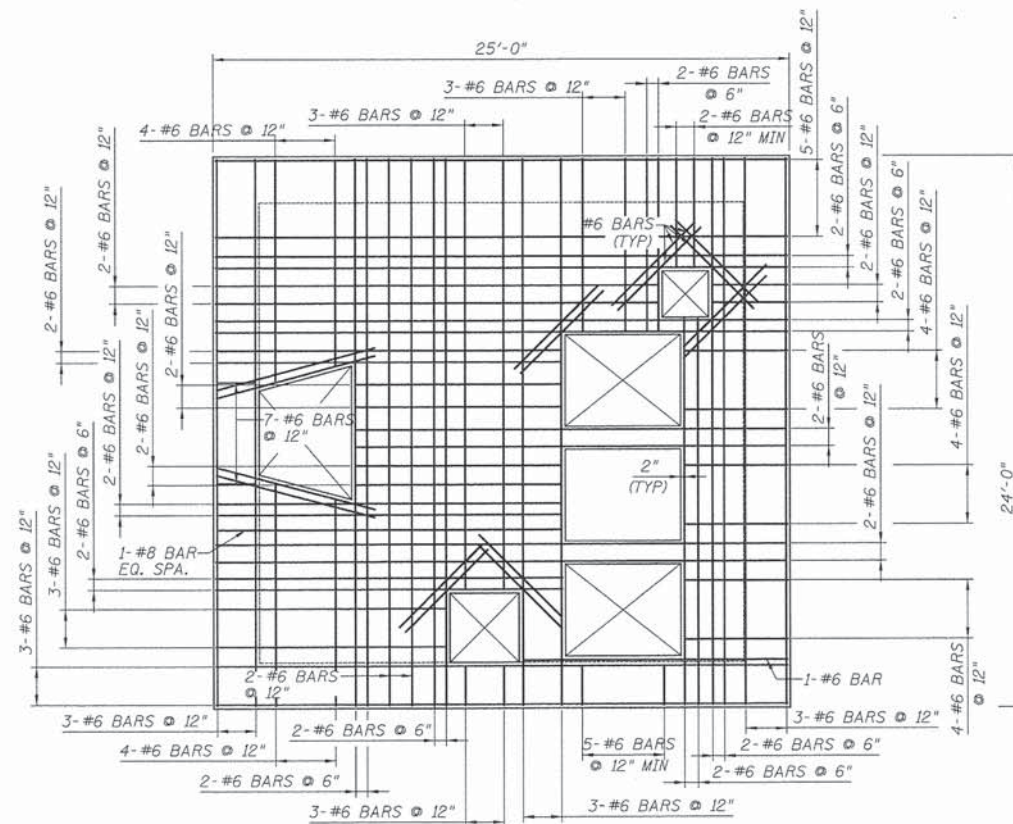
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
PUMP STATION STRUCTURAL - BOTTOM SLAB & LOWER WALL

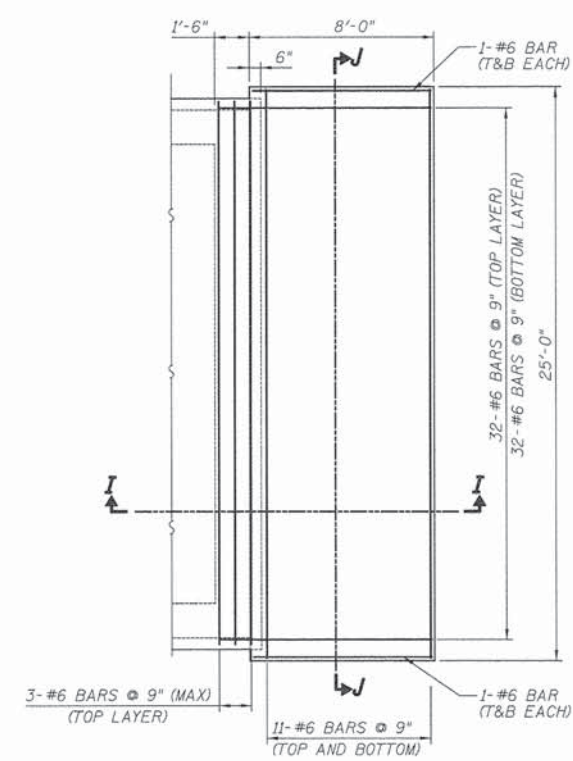
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F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 141
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A63	

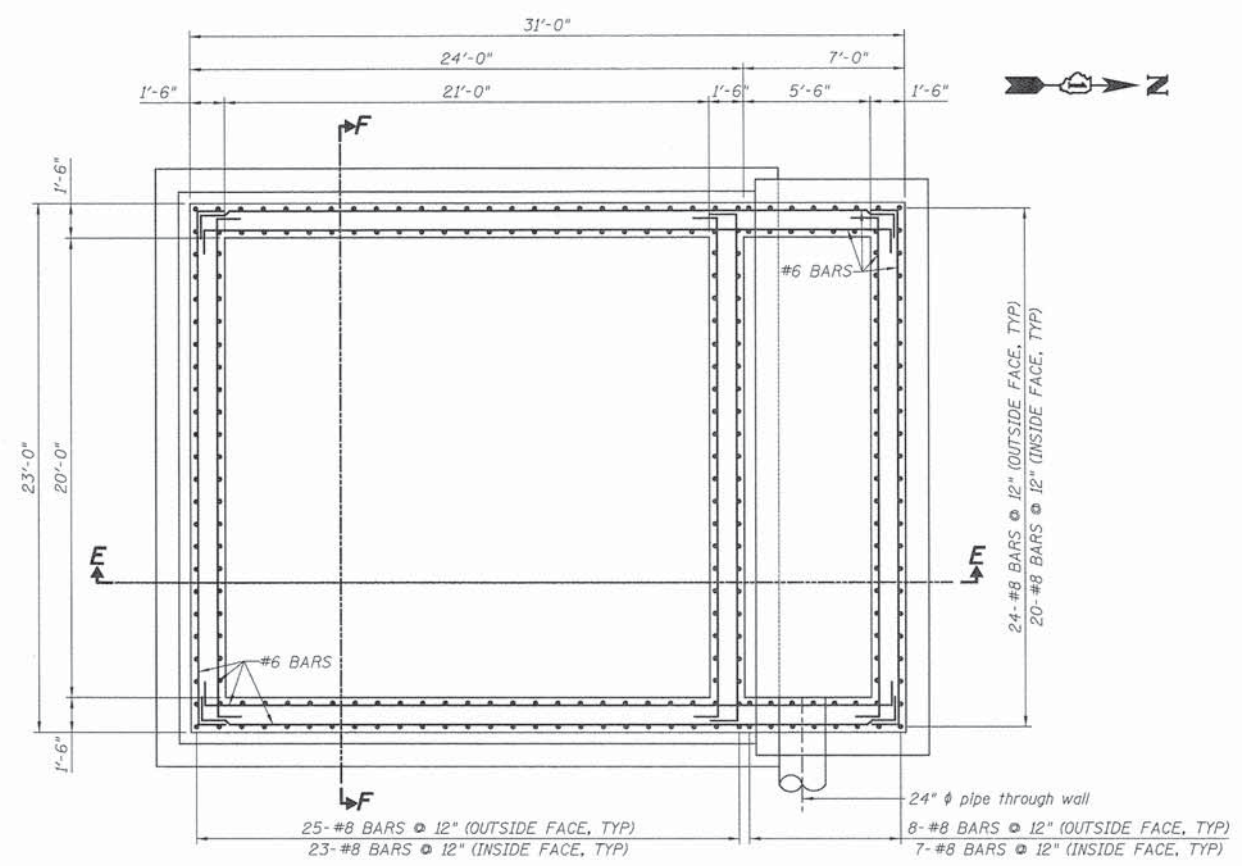
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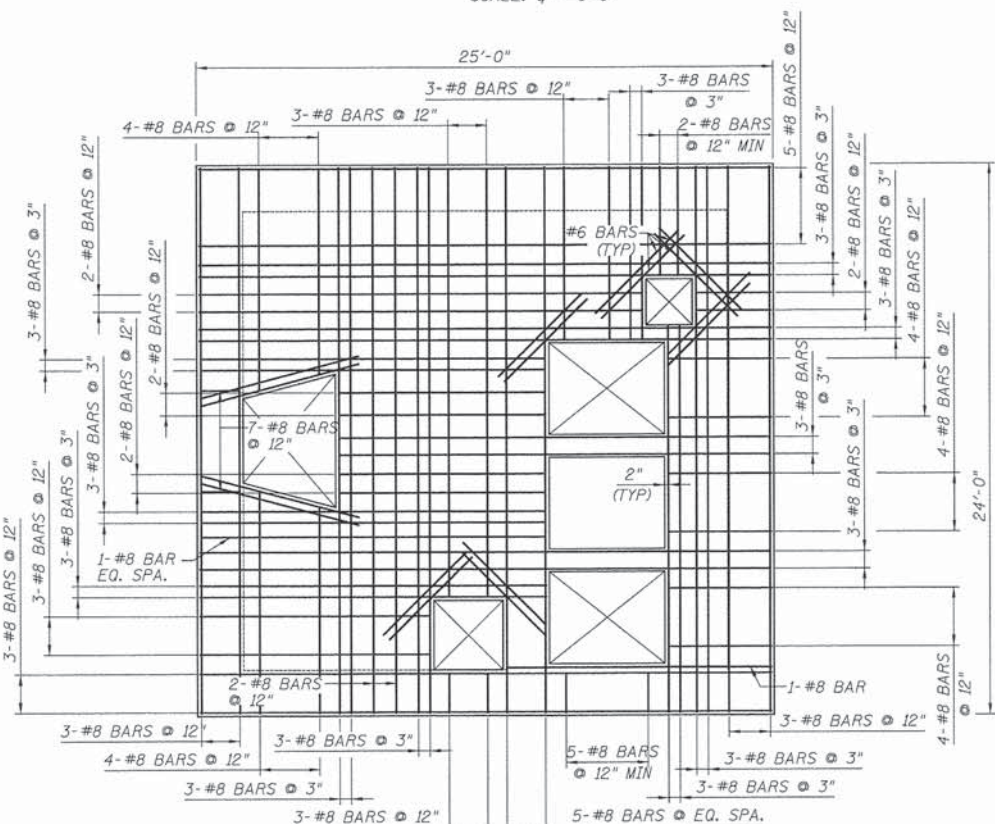
INTERMEDIATE SLAB REINFORCEMENT PLAN
(TOP LAYER)
SCALE: 1/4" = 1'-0"



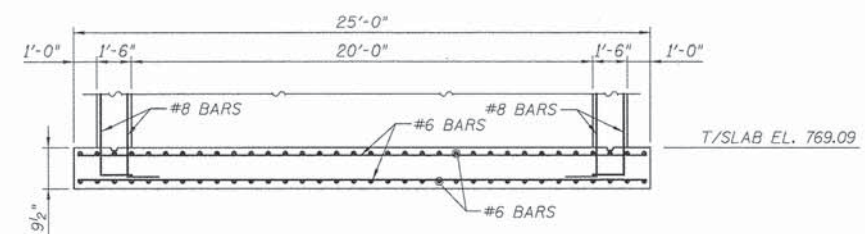
DISCHARGE CHAMBER FLOOR SLAB
REINFORCEMENT PLAN
SCALE: 1/4" = 1'-0"



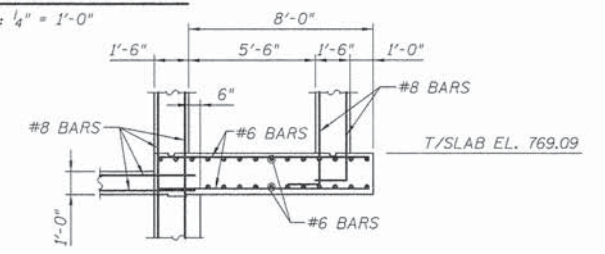
PUMP STATION UPPER CHAMBER
WALL REINFORCEMENT PLAN
SCALE: 1/4" = 1'-0"



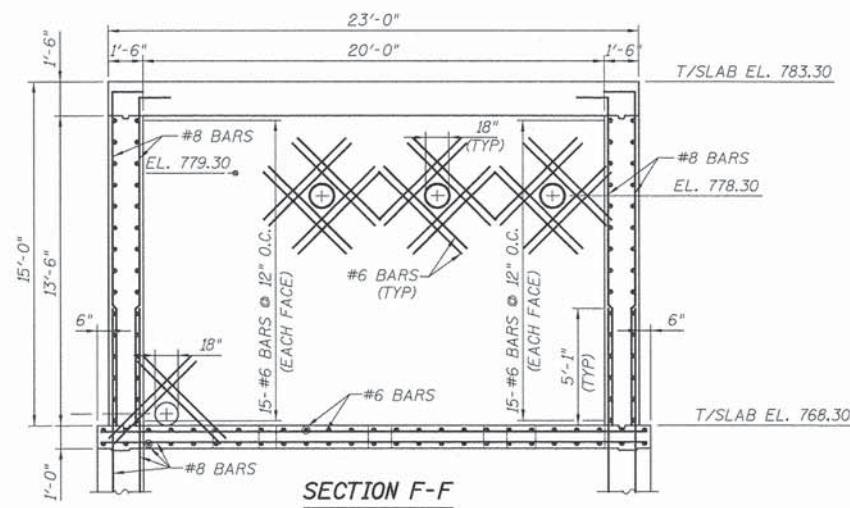
INTERMEDIATE SLAB REINFORCEMENT PLAN
(BOTTOM LAYER)
SCALE: 1/4" = 1'-0"



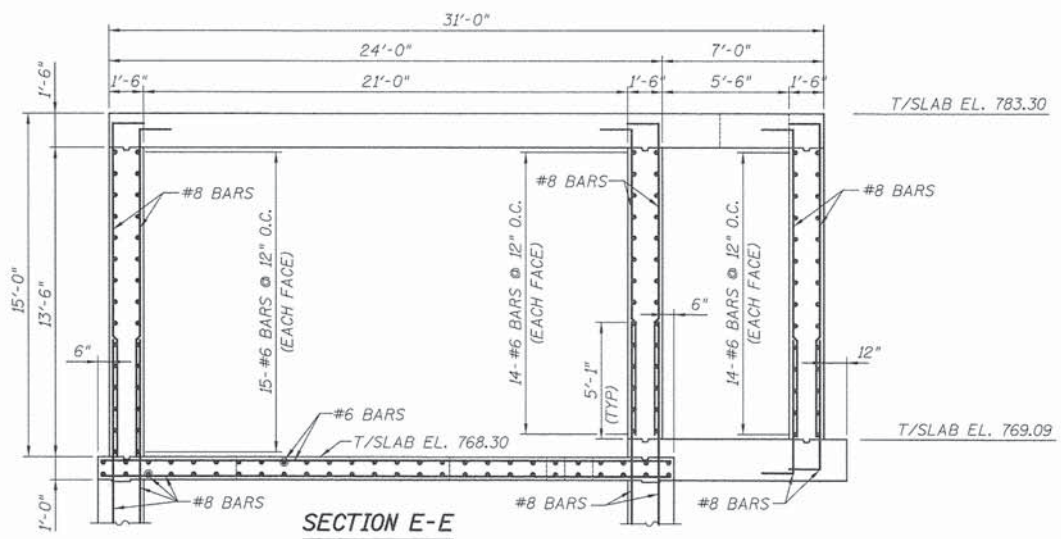
SECTION J-J
SCALE: 1/4" = 1'-0"



SECTION I-I
SCALE: 1/4" = 1'-0"



SECTION F-F
SCALE: 1/4" = 1'-0"



SECTION E-E
SCALE: 1/4" = 1'-0"

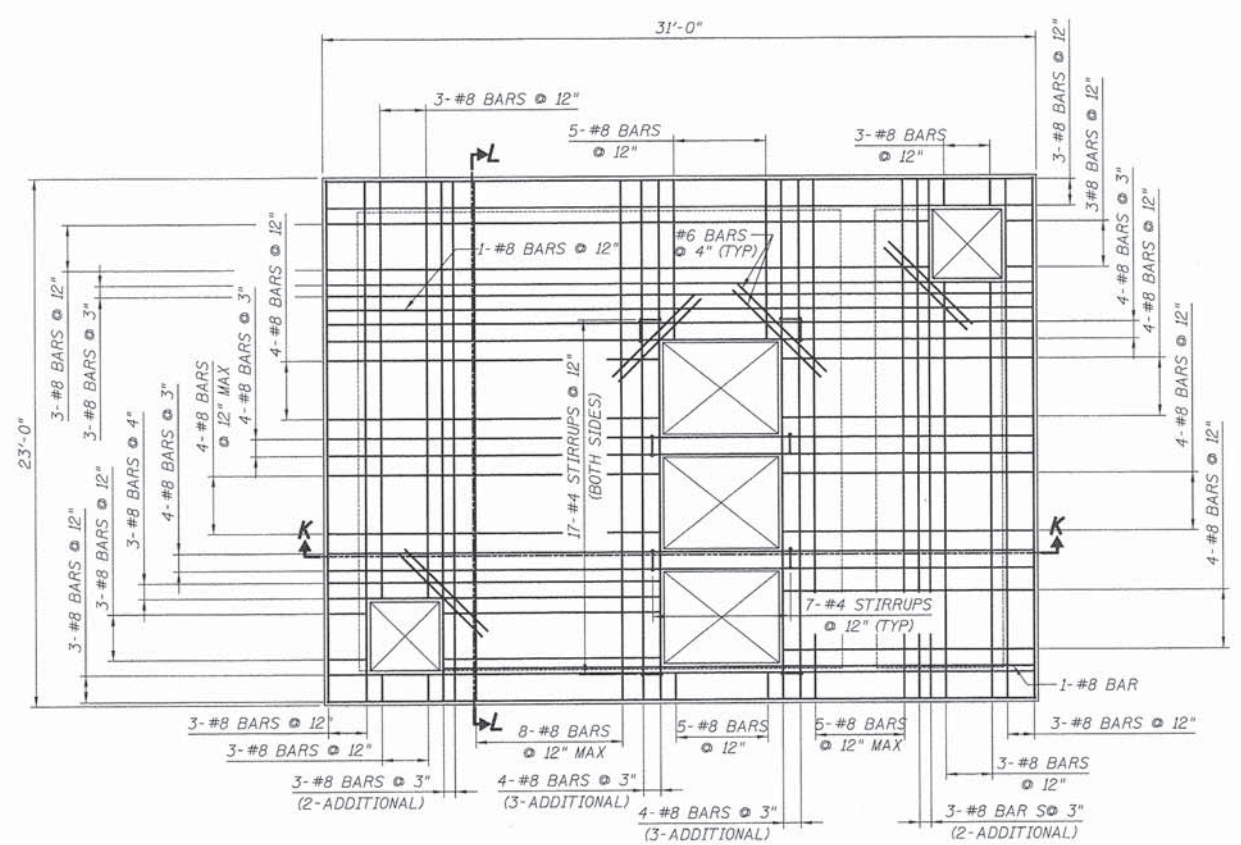
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
PUMP STATION STRUCTURAL - INTERMEDIATE SLAB & UPPER WALL

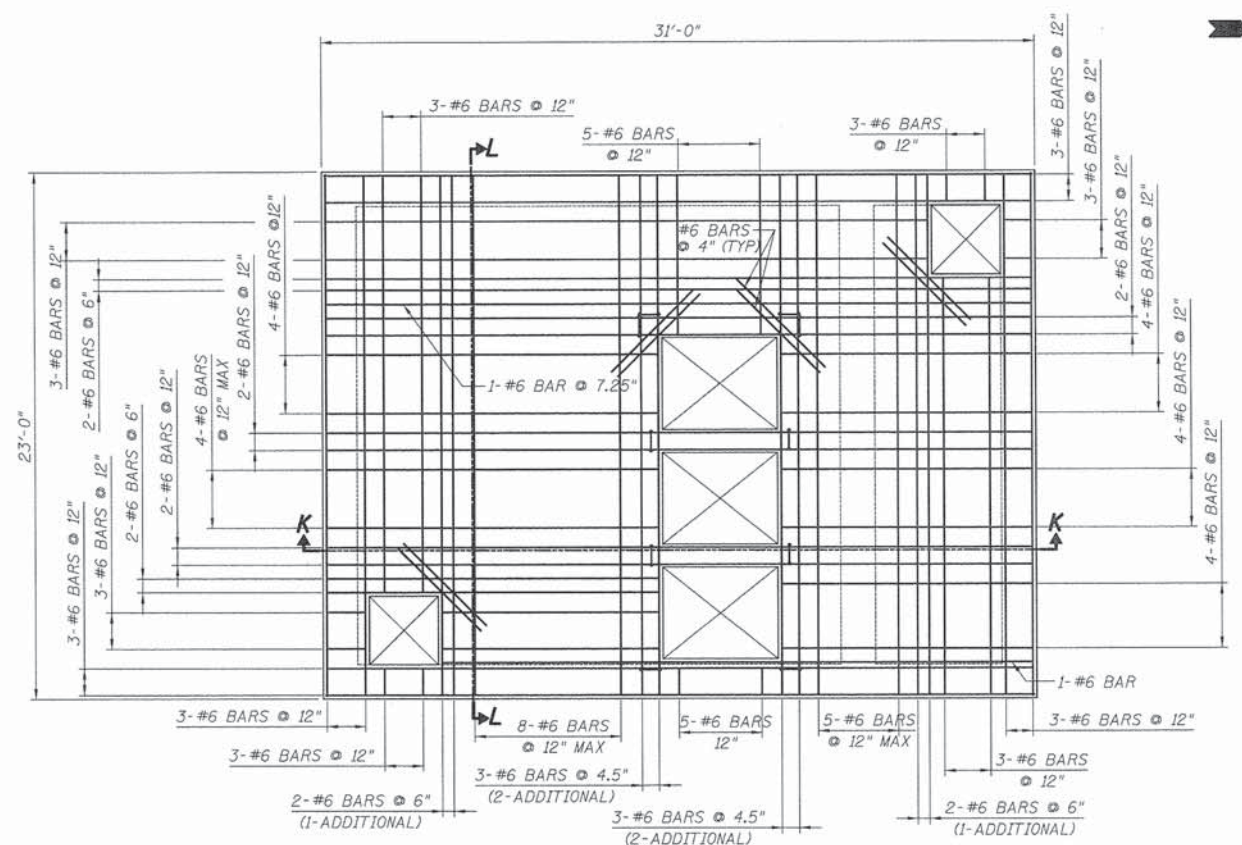
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FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 61A63		

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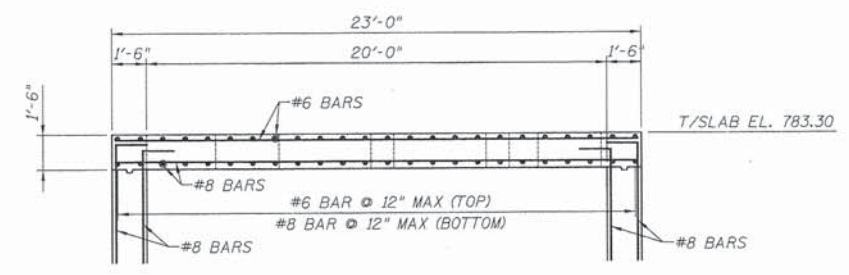
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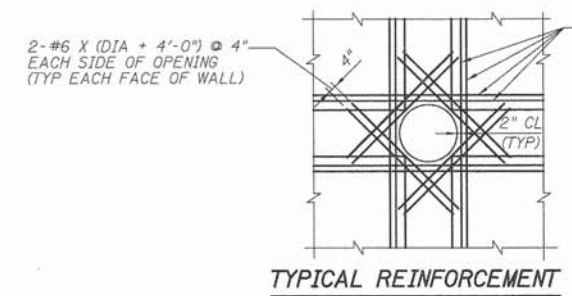
PUMP STATION TOP SLAB
REINFORCEMENT PLAN (BOTTOM LAYER)
 SCALE: 1/4" = 1'-0"



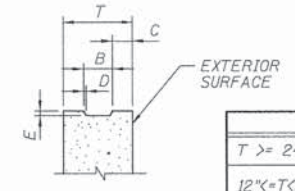
PUMP STATION TOP SLAB
REINFORCEMENT PLAN (TOP LAYER)
 SCALE: 1/4" = 1'-0"



SECTION L-L
 SCALE: 1/4" = 1'-0"

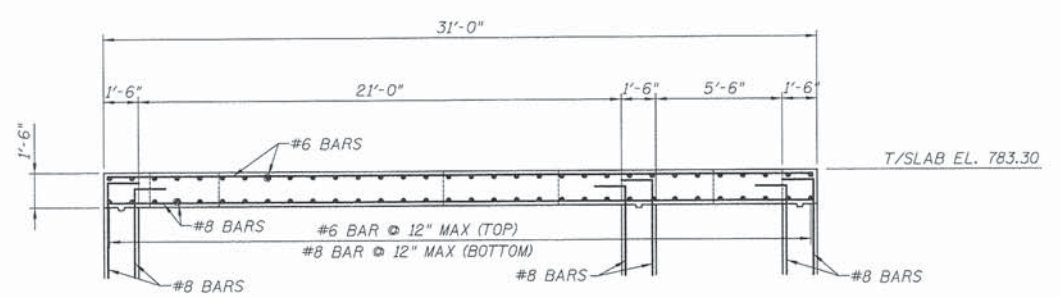


TYPICAL REINFORCEMENT
AT OPENINGS
 SCALE: NTS

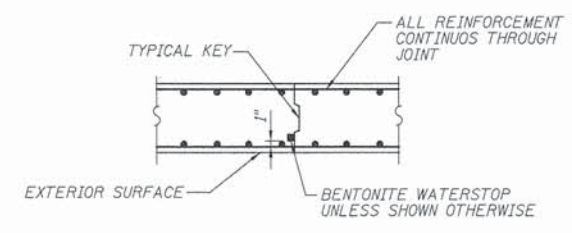


TYPICAL KEY DETAIL
AT CONSTRUCTION JOINT
 SCALE: NTS

	B	C	D	E
T >= 24"	T/3+2	T/3-1	1"	3"
12" < T < 24"	3 1/2"	T-3 1/2" / 2	1/2"	1 1/2"



SECTION K-K
 SCALE: 1/4" = 1'-0"



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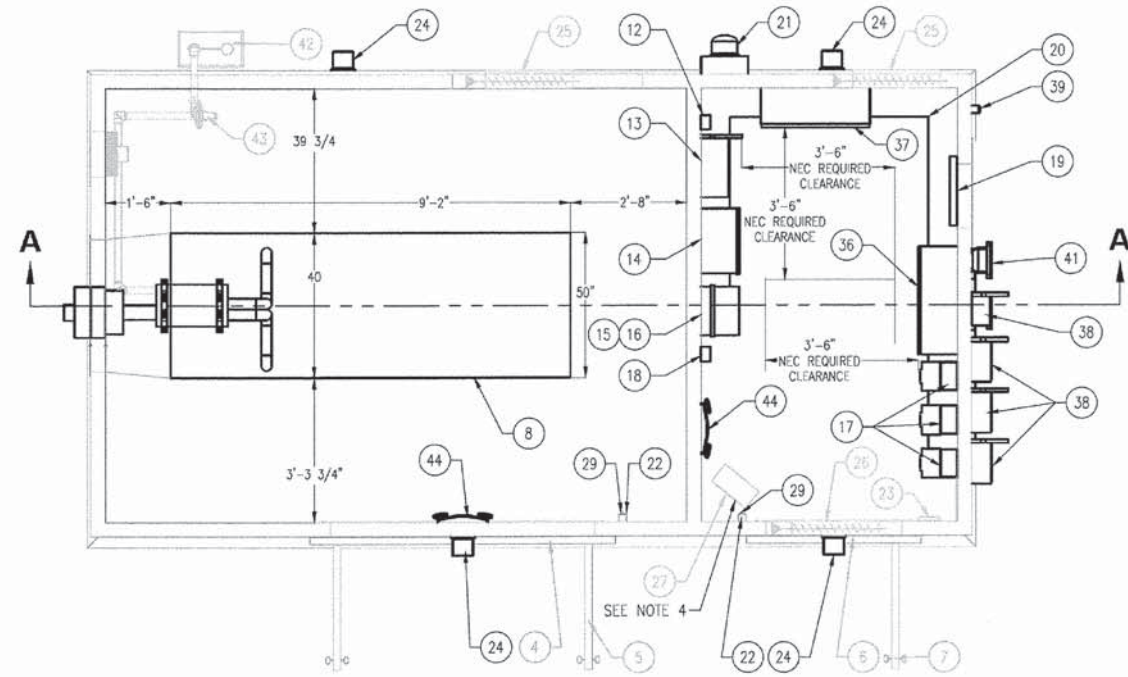
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

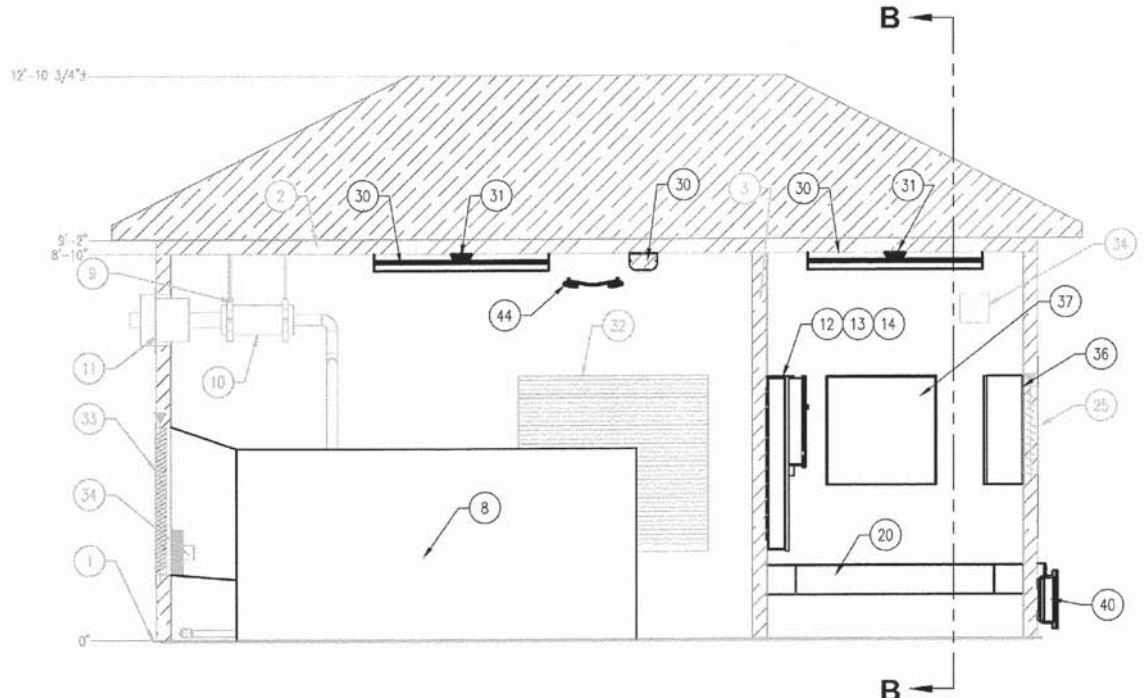
WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
PUMP STATION STRUCTURAL - TOP SLAB

SCALE: NTS SHEET NO. PS 8 OF 15 STA. TO STA.

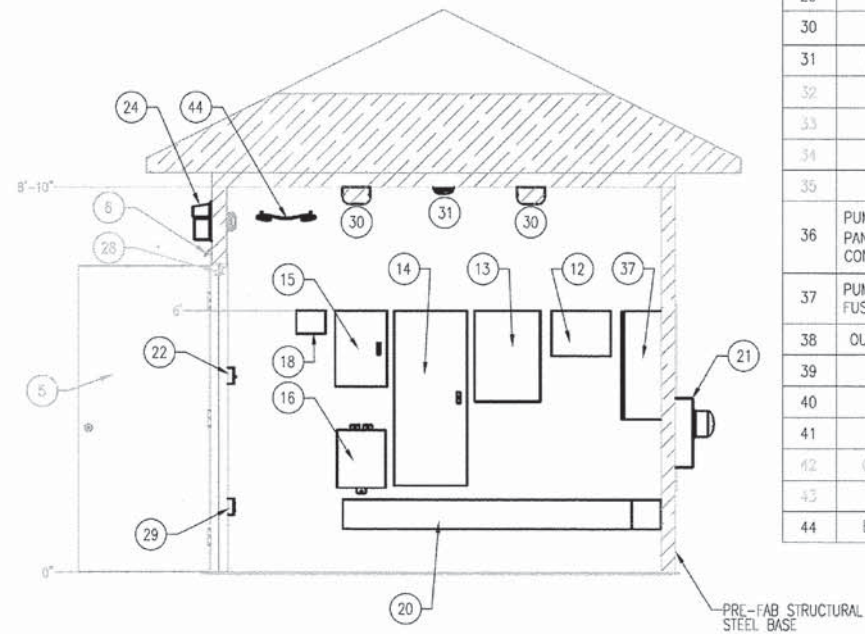
F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 143
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 61A63				



PUMPING STATION CONTROL HOUSE ELECTRICAL ENLARGED PLAN



PUMPING STATION CONTROL HOUSE ELECTRICAL ENLARGED PLAN SECTION A-A



PUMPING STATION CONTROL HOUSE ELECTRICAL ENLARGED PLAN SECTION B-B

- GENERAL NOTES:
- BUILDING SHOWN FOR ELECTRICAL LAYOUT REFERENCE ONLY.
 - REFER TO ELECTRICAL SPECIFICATIONS FOR LAKE COUNTY PUBLIC WORKS (LCPW) STANDARD PUMP STATION TECHNOLOGY CONTROL PANEL AND ELECTRICAL EQUIPMENT PART LISTS.
 - ALL EQUIPMENT AND TERMINATIONS IN THE PUMPING STATION VAULT SHALL BE CLASSIFIED AS CLASS 1, DIVISION 2 PER THE NATIONAL ELECTRICAL CODE ARTICLE 500. SEE PUMP STATION ELECTRICAL VAULT PLAN FOR MORE INFORMATION.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH FOR UNIT HEATER AS MANUFACTURED BY SQUARE D 3110HU361, 30A NON-FUSED, 600V, NEMA 1.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE MANUAL STARTER FOR EXHAUST FAN (AND ALL OTHER FRACTIONAL HORSEPOWER MOTORS) AS MANUFACTURED BY SQUARE D 2510FG1P WITH RED (RUN) PILOT LIGHT AND THERMAL OVERLOADS.

GENERAL ELECTRICAL/TECHNOLOGY EQUIPMENT SCHEDULE			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	STRUCTURAL STEEL BASE		1
2	BUILDING ROOF	INSULATED, R28	1
3	BUILDING WALLS	INSULATED, R28	1
4	DRIP LEDGE, 72" DOUBLE DOOR		1
5	72" x 84" DOUBLE DOOR		1
6	DRIP LEDGE, 36" DOOR		1
7	DOOR	36" WID. x 84" HAI.	1
8	STANDBY BACK-UP GENERATOR (GEN-NG) & ASSOCIATED GENERATOR CONTROL PANEL (GCP), GENERATOR BATTERY CHARGER (GBC), GENERATOR BLOCK HEATER (GBH).	SEE RISER DIAGRAM AND SPECIFICATIONS	1
9	CYLINDER SUPPORT BRACKET		3
10	SILENCER		1
11	4" O.D. EXHAUST TUMBLL		1
12	SURGE PROTECTIVE DEVICE	SEE RISER DIAGRAM AND SPECIFICATIONS	1
13	AUTOMATIC TRANSFER SWITCH	SEE RISER DIAGRAM AND SPECIFICATIONS	1
14	EQUIPMENT PANELBOARD	SEE RISER DIAGRAM	1
15	LIGHTING PANELBOARD	SEE RISER DIAGRAM	1
16	LOW VOLTAGE TRANSFORMER	SEE RISER DIAGRAM	1
17	VARIABLE FREQUENCY DRIVE	SEE RISER DIAGRAM AND SPECIFICATIONS	3
18	GENERATOR ANNUNCIATOR PANEL	SEE RISER DIAGRAM AND SPECIFICATIONS	1
19	TELEPHONE TERMINATION CABINET (TTC), AUTOMATIC TELEPHONE DIALER (SENSA-PHONE 400) & FIBER TERMINATION CABINET	SEE ELECTRICAL SYMBOL LIST AND SPECIFICATIONS	1
20	WIRING TROUGH	SEE RISER DIAGRAM	1
21	ELECTRICAL METER - BY COMED	SEE RISER DIAGRAM	1
22	OCCUPANCY SENSOR/LIGHT SWITCH	SEE ELECTRICAL SYMBOL LIST AND SPECIFICATIONS	2
23	THERMOSTAT		1
24	WALL LIGHT	OUTDOOR - LITHONIA WSTM LED 1A 30K 120 PE	2
25	LOUVER WITH GRAVITY DAMPER	24x24	2
26	LOUVER WITH MOTORIZED DAMPER	24x18	2
27	UNIT HEATER	5KW, 480V 3ø	1
28	LIMIT SWITCH	SEE LCPW STANDARD CONTROL PANEL PARTS LIST	2
29	DUPLEX GFCI OUTLET	SEE ELECTRICAL SYMBOLS LIST	2
30	48" FLUORESCENT LIGHT	SEE DRAWINGS AND SPECIFICATIONS	5
31	COMBINATION SMOKE/CO ALARM	SEE DRAWINGS AND SPECIFICATIONS	2
32	48"x52" LOUVER	INTAKE	1
33	36"x40" LOUVER	EXHAUST	1
34	12" EXHAUST FAN	120V, 1ø, 1/12 HP, CORROSION RESISTANT	2
35	HIP ROOF	FIELD ERECTED	1
36	PUMP STATION TECHNOLOGY CONTROL PANEL MOUNTED ON A 3 1/2" HIGH CONCRETE PAD	SEE DRAWINGS AND SPECIFICATIONS	1
37	PUMP STATION SERVICE ENTRANCE MAIN FUSED DISCONNECT SWITCH	SEE DRAWINGS AND SPECIFICATIONS	1
38	OUTDOOR EQUIPMENT DISCONNECT SWITCH	SEE DRAWINGS AND SPECIFICATIONS	4
39	EXTERIOR GFCI/WP OUTLET	SEE DRAWINGS AND SPECIFICATIONS	1
40	JUNCTION BOX: PUMP CABLES	ALUMINUM EXPLOSION PROOF JUNCTION BOX	4
41	JUNCTION BOX: LEVEL CONTROLS	ALUMINUM EXPLOSION PROOF JUNCTION BOX	1
42	GAS METER & PRIMARY REGULATOR	BY OTHERS	1
43	NATURAL GAS REGULATOR	1/4" WC	1
44	EMERGENCY LIGHTING (UNIT BATTERIES)	SEE DRAWINGS AND SPECIFICATIONS	2

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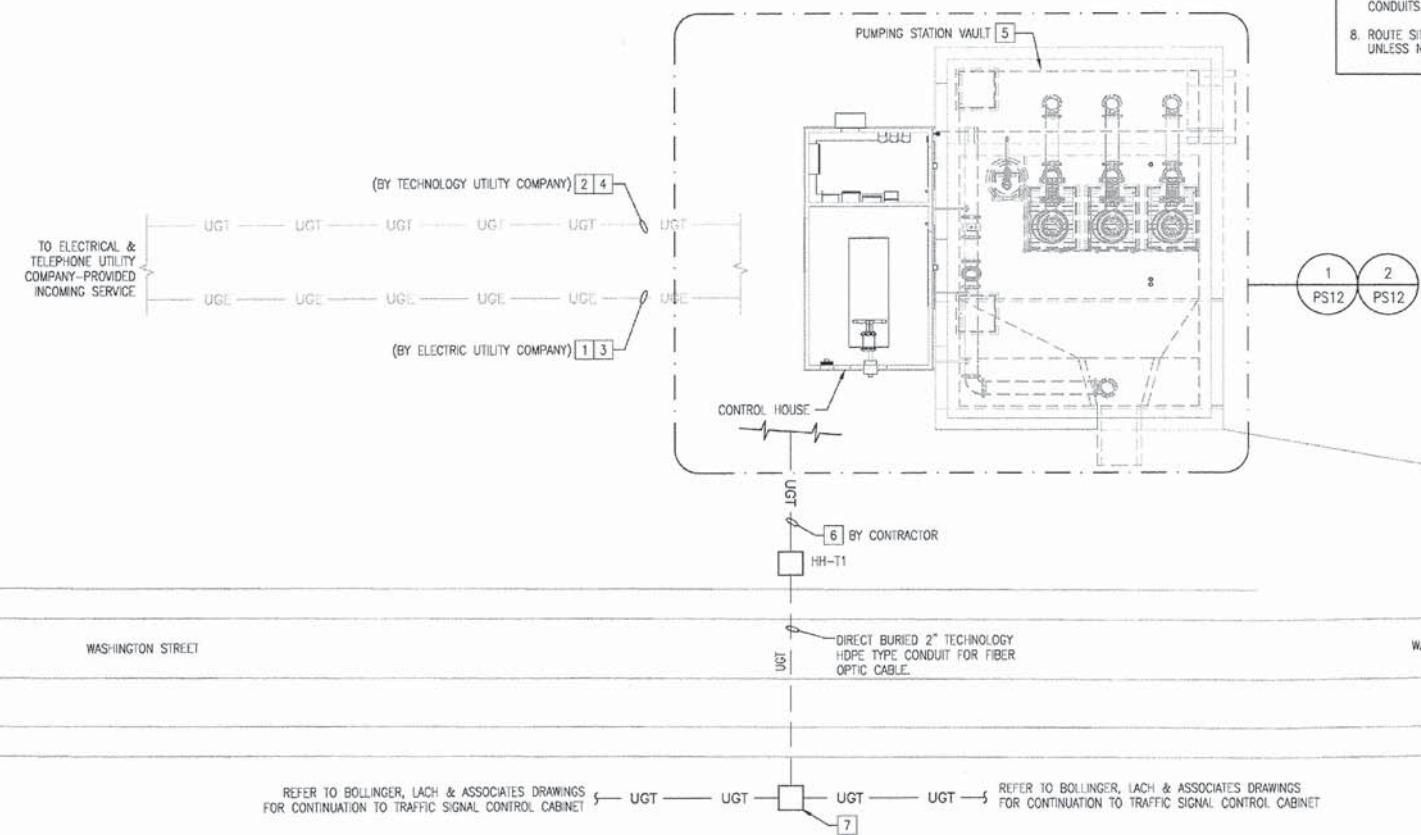
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET PUMP STATION GENERATOR/CONTROL HOUSE ELECTRICAL PLAN		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				187	11-00121-11-BR	LAKE	496	144
SCALE: NTS		SHEET NO. PS 9 OF 15		STA. TO STA.		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		

GENERAL NOTES

1. SEE GENERATOR/CONTROL HOUSE ELECTRICAL PLAN, SHEET PS9.
2. SEE ELECTRICAL SYMBOL LIST, SHEET PS10.
3. SEE ELECTRICAL RISER DIAGRAM, SHEET PS13.
4. WHERE REGULATIONS OF ELECTRIC AND/OR TELEPHONE UTILITY COMPANIES APPLY, CONFORMANCE WITH THEIR REGULATIONS IS MANDATORY AND ANY COSTS INVOLVED SHALL BE INCLUDED IN THE CONTRACT. WHEN EXCAVATIONS ARE MADE ADJACENT TO OR BELOW OTHER UTILITIES, THESE UTILITIES SHALL BE PROPERLY SUPPORTED SO AS NOT TO DISTURB THE OPERATION, ALIGNMENT OR INTEGRITY OF OTHER UTILITIES.
5. CONTRACTOR SHALL DO ALL EXCAVATING, FILLING, BACKFILLING, COMPACTING, AND RESTORATION IN CONNECTION WITH HIS WORK.
6. CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES WITH THE REGIONAL UTILITY LOCATOR. PROVIDE NOTICE TO THE LOCATOR BEFORE EXCAVATIONS.
7. SITE UNDERGROUND CONDUIT SHALL HAVE STEEL ELBOWS AND PULLSTRINGS. INSTALL WARNING TAPE WITH METALLIC TRACER, 8" BELOW GRADE ON TOP OF CONDUITS.
8. ROUTE SITE UNDERGROUND CONDUIT AT A MINIMUM OF 24" BELOW GRADE UNLESS NOTED OTHERWISE.

TAG NOTES

- | | |
|---|--|
| 1 | ELECTRIC UTILITY COMPANY PROVIDED INCOMING SERVICE. COORDINATE ELECTRICAL INCOMING SERVICE INTO CONTROL HOUSE SERVICE ENTRANCE MAIN DISCONNECT SWITCH IN ACCORDANCE WITH THE ELECTRIC UTILITY COMPANY SERVICE PROVIDER. |
| 2 | TELEPHONE UTILITY COMPANY PROVIDED INCOMING SERVICE. COORDINATE INCOMING TELEPHONE SERVICE INTO CONTROL HOUSE TELEPHONE TERMINAL CABINET (TTC) IN ACCORDANCE WITH THE TELEPHONE UTILITY COMPANY SERVICE PROVIDER. |
| 3 | SEE DRAWING PS12 FOR CONTINUATION TO ELECTRIC UTILITY COMPANY TRANSFORMER. |
| 4 | SEE DRAWING PS12 FOR CONTINUATION TO TELEPHONE TERMINAL CABINET (TTC). |
| 5 | PUMPING STATION VAULT IS CLASSIFIED AS CLASS 1, DIV. 2, GROUP D, HAZARDOUS LOCATION. ALL VAULT ELECTRICAL EQUIPMENT, AND TERMINATIONS SHALL CONFORM TO NEC REQUIREMENTS ASSOCIATED FOR CLASS 1, DIV. 2, GROUP D, HAZARDOUS LOCATION. |
| 6 | SINGLE-MODE 24 STRAND OUTDOOR RATED FIBER OPTIC CABLE ROUTING FROM CONTROL ROOM TO HANDHOLE (HH-T1) FOR WASHINGTON STREET/LAKE STREET TRAFFIC SIGNAL CONTROL CABINET. |
| 7 | HANDHOLE LOCATION IS SHOWN GRAPHICALLY FOR COORDINATION PURPOSES ONLY AND IT IS PROVIDED BY BOLLINGER, LACH & ASSOCIATES INC. DESIGN DOCUMENTS. REFER TO THEIR DRAWINGS FOR CONTINUATION TO WASHINGTON AND LAKE STREET TRAFFIC SIGNAL CONTROL CABINET. |

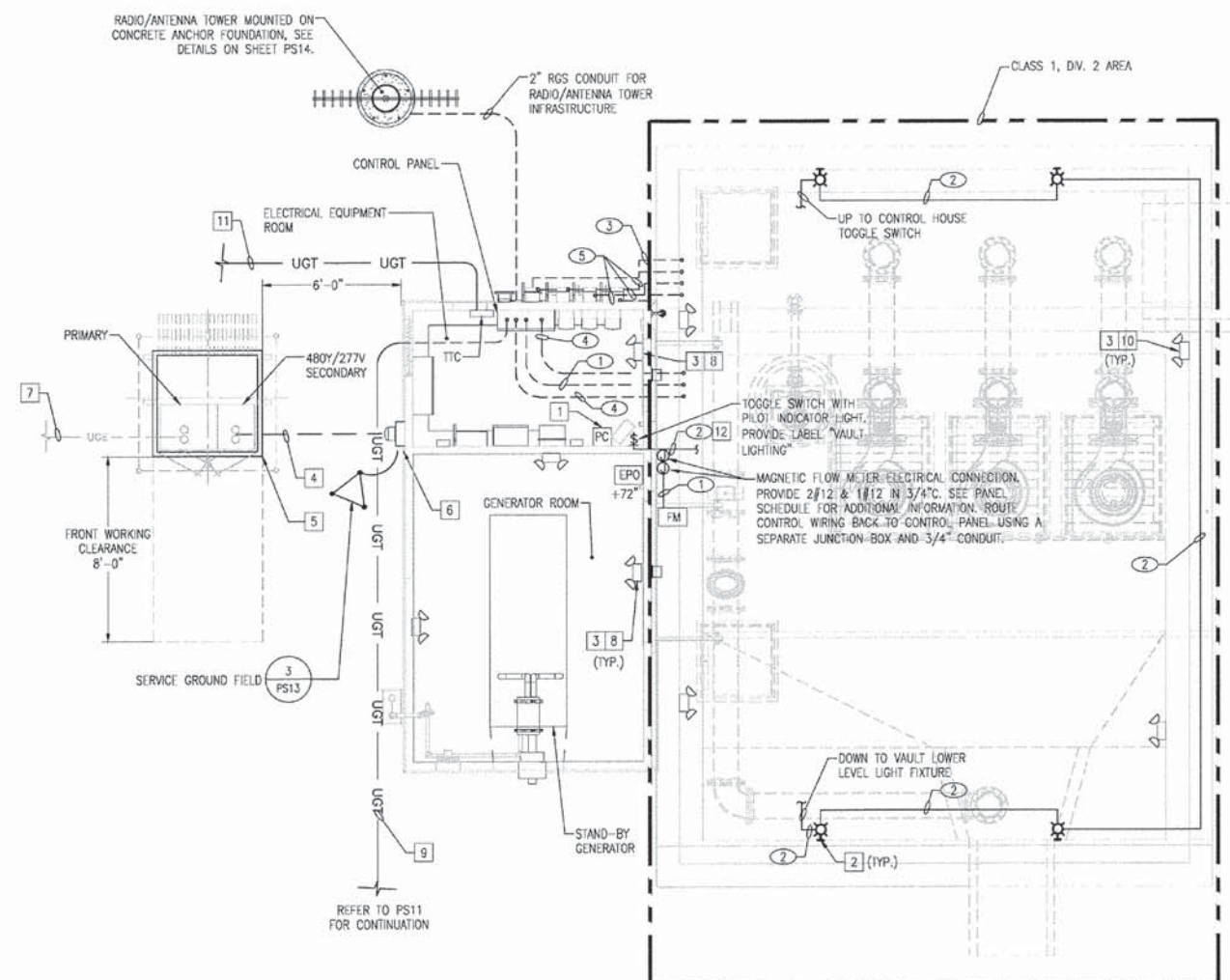


1 PUMP STATION PARTIAL ELECTRICAL SITE PLAN
 PS11 SCALE: 1/8" = 1'-0"

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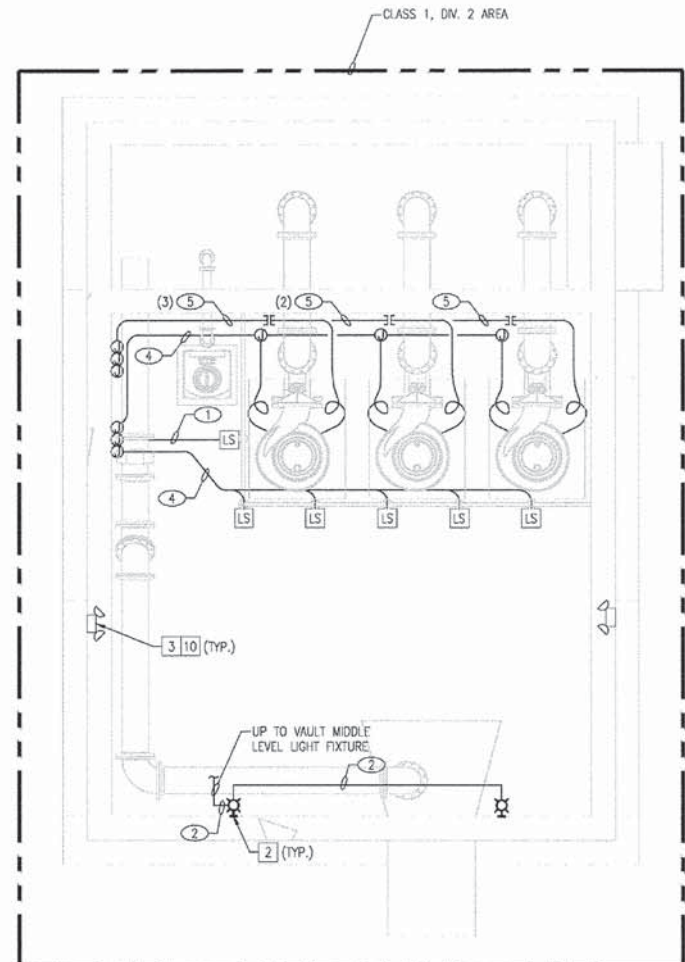
PATRICK ENGINEERING 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME = tkoepfer@dwg.lisle	DESIGNED - AG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET PUMP STATION ELECTRIC PARTIAL SITE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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1 CONTROL HOUSE ELECTRICAL PLAN
PS11 SCALE: 1/4" = 1'-0"

REFER TO PUMPING STATION CONTROL HOUSE ELECTRICAL ENLARGED PLANS ON PS9 FOR EQUIPMENT LAYOUT.



2 PUMP STATION VAULT MIDDLE LEVEL ELECTRICAL PLAN
PS12 SCALE: 1/4" = 1'-0"

3 PUMP STATION VAULT LOWER LEVEL ELECTRICAL PLAN
PS12 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- SEE DRAWING PS10 FOR SYMBOL LIST.
- SEE DRAWING PS13 FOR ELECTRICAL RISER DIAGRAM AND FEEDER SCHEDULE.
- WHERE REGULATIONS OF ELECTRIC AND/OR TELEPHONE UTILITY COMPANIES APPLY, CONFORMANCE WITH THEIR REGULATIONS IS MANDATORY AND ANY COSTS INVOLVED SHALL BE INCLUDED IN THE CONTRACT.
- CONTRACTOR SHALL DO ALL EXCAVATING, FILLING, BACKFILLING, COMPACTING, AND RESTORATION IN CONNECTION WITH HIS WORK. WHEN EXCAVATIONS ARE MADE ADJACENT TO OR BELOW OTHER UTILITIES, THESE UTILITIES SHALL BE PROPERLY SUPPORTED SO AS NOT TO DISTURB THE OPERATION, ALIGNMENT OR INTEGRITY OF OTHER UTILITIES.
- CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES WITH THE REGIONAL UTILITY LOCATOR. PROVIDE NOTICE TO THE LOCATOR BEFORE EXCAVATIONS.
- SITE UNDERGROUND CONDUIT SHALL HAVE STEEL ELBOWS AND PULLSTRINGS. INSTALL WARNING TAPE WITH METALLIC TRACER, 8" BELOW GRADE ON TOP OF CONDUITS.
- ROUTE SITE UNDERGROUND CONDUIT AT A MINIMUM OF 24" BELOW GRADE UNLESS NOTED OTHERWISE.

TAG NOTES

- | | |
|----|---|
| 1 | PROVIDE PHOTOCCELL ON ROOF FACING NORTH, INCLUDING ALL MOUNTING SUPPORTS. |
| 2 | PROVIDE WALL MOUNTED, CAST ALUMINUM HOUSING, CLASS 1, DIV. 2 LIGHT FIXTURE AS MANUFACTURED BY LITHONIA # EIA ZX CF0705 WM OR APPROVED EQUAL. MOUNT FIXTURE AT 48" AFF. PROVIDE TWO (2) SPARE LIGHT FIXTURES TO BE UTILIZED AS DEEMED BY THE OWNER. |
| 3 | EMERGENCY UNIT BATTERY SHALL BE WIRED AHEAD OF LOCAL LIGHTING SWITCH CIRCUIT USING 2#12 AND 1#12 GND IN 3/4" C. |
| 4 | PROVIDE ONE (1) 4" RGS CONDUIT. SECONDARY WIRING AND TERMINATIONS INSTALLED IN ACCORDANCE WITH THE ELECTRIC UTILITY COMPANY REQUIREMENTS. COORDINATE WITH ELECTRIC UTILITY COMPANY. |
| 5 | HOUSEKEEPING CONCRETE PAD INSTALLED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH THE ELECTRIC UTILITY COMPANY REQUIREMENTS. COORDINATE WITH ELECTRIC UTILITY COMPANY. |
| 6 | PROVIDE A NEMA 3R METERING CABINET. ELECTRICAL REVENUE METER PROVIDED BY THE ELECTRIC UTILITY COMPANY REQUIREMENTS. COORDINATE WITH ELECTRIC UTILITY COMPANY. |
| 7 | TO ELECTRIC UTILITY COMPANY PRIMARY SERVICE. PROVIDE ONE (1) 4" WIDE SWEEP RIGID GALVANIZED STEEL CONDUIT ELBOW WITH STEEL ELBOWS AND PULLSTRINGS, IN ACCORDANCE WITH THE ELECTRIC UTILITY COMPANY, FOR THE ELECTRICAL UTILITY COMPANY PRIMARY SERVICE CABLE INSTALLATION/TERMINATIONS. VERIFY WITH ELECTRIC UTILITY COMPANY. |
| 8 | PROVIDE EMERGENCY BATTERY (90 MINS), TWO ADJUSTABLE 12W HALOGEN, 6 VOLT HEADS, STEEL HOUSING WITH SELF TEST AND DIAGNOSTIC OF INVERTER AND LAMPS AS MANUFACTURED BY SURELITES XR SERIES OR APPROVED EQUAL. |
| 9 | TO TECHNOLOGY HANDHOLE. PROVIDE ONE (1) 2" RGS CONDUIT FROM CONTROL PANEL TO TECHNOLOGY HANDHOLE FOR FIBER OPTIC CABLE INSTALLATION TO TRAFFIC CONTROL. REFER TO ELECTRICAL SITE PLAN PS11 FOR CONTINUATION. |
| 10 | PROVIDE WALL MOUNTED, STRUCTURAL FOAM, GLASS REINFORCED HOUSING, CLASS 1, DIV. 2 BATTERY UNIT WITH SELF TEST AND DIAGNOSTIC OF INVERTER AND LAMPS AS MANUFACTURED BY EMERGI-LITE #6HZM-2 VP-WB-2-42-F-MI OR APPROVED EQUAL. PROVIDE TWO (2) SPARE UNIT BATTERIES TO BE UTILIZED AS DEEMED BY THE OWNER. |
| 11 | TO TELEPHONE UTILITY COMPANY INCOMING SERVICE. PROVIDE TEN (10) FEET OF 2 1/2" RGS CONDUIT WITH STEEL ELBOWS AND PULLSTRINGS, IN ACCORDANCE WITH THE TELEPHONE UTILITY COMPANY, FOR THE TELEPHONE COMPANY INCOMING CABLE INSTALLATION/TERMINATIONS. VERIFY WITH TELEPHONE UTILITY COMPANY. |
| 12 | CONNECT VAULT MIDDLE AND LOWER LEVEL LIGHT FIXTURES TO PANEL P208, CIRCUIT #5, VIA TOGGLE SWITCH LOCATED IN CONTROL HOUSE ELECTRICAL ROOM. |

PORTABLE = ...\\LSLEVENTABLE\TRANSPEN\TBL

	PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME = koeppen(Rdwj.Lisle) PLOT CONFIG = PDF(Greg.Largel.pit) PLOT SCALE = 1:50 PLOT DATE = 7/17/2014 4:18:08 PM	DESIGNED - AG DRAWN - AG CHECKED - DF DATE - 6/30/2014	REVISED - REVISED - REVISED - REVISED -
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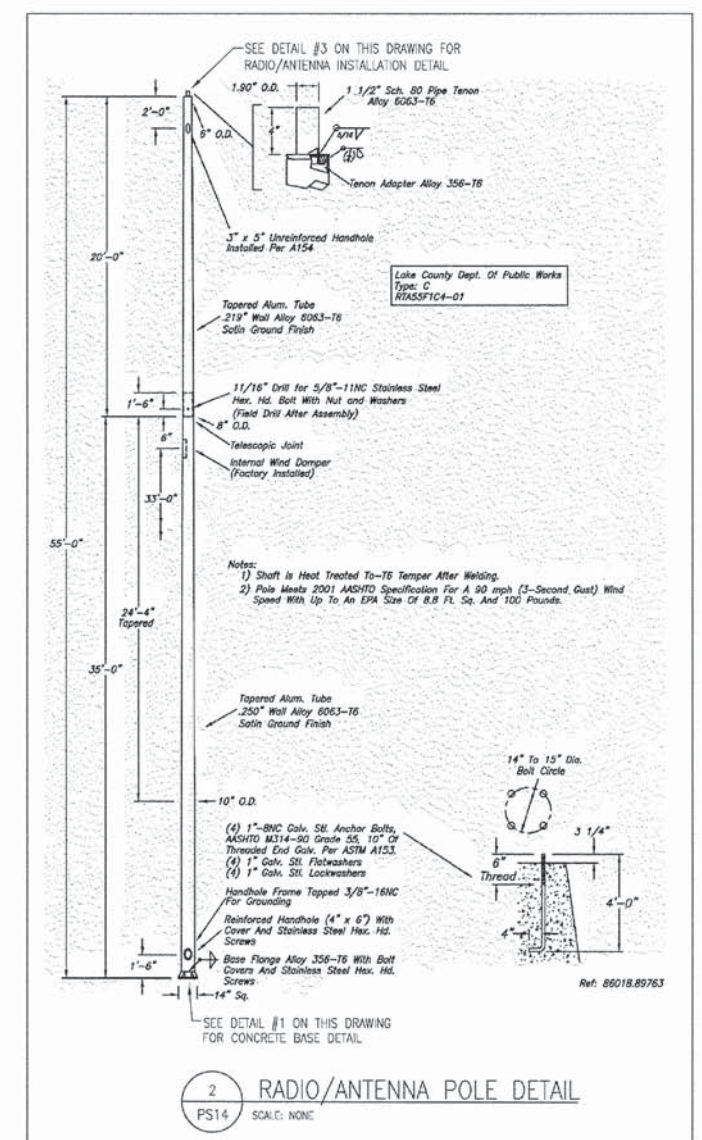
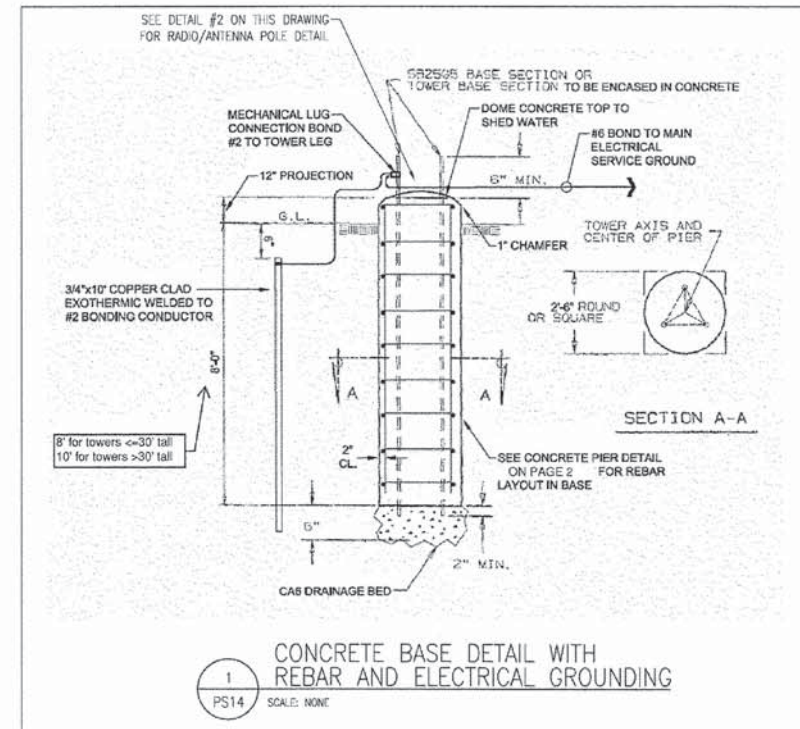
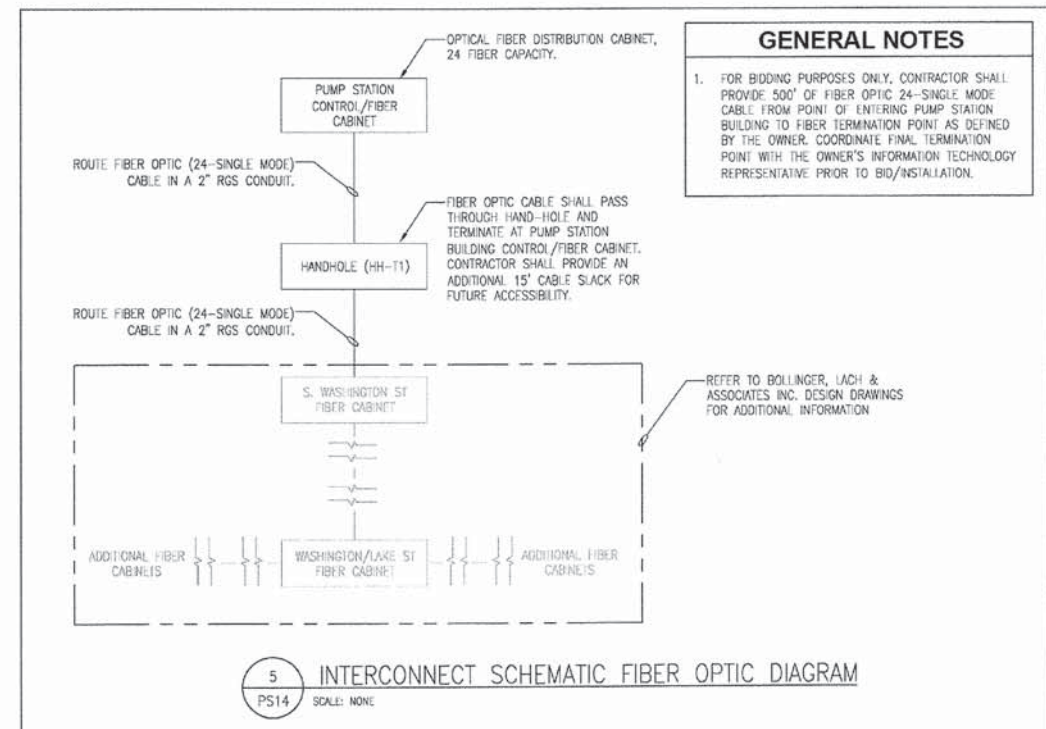
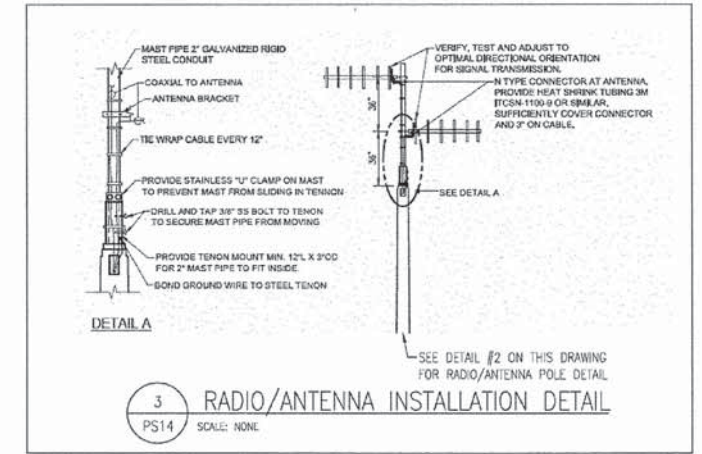
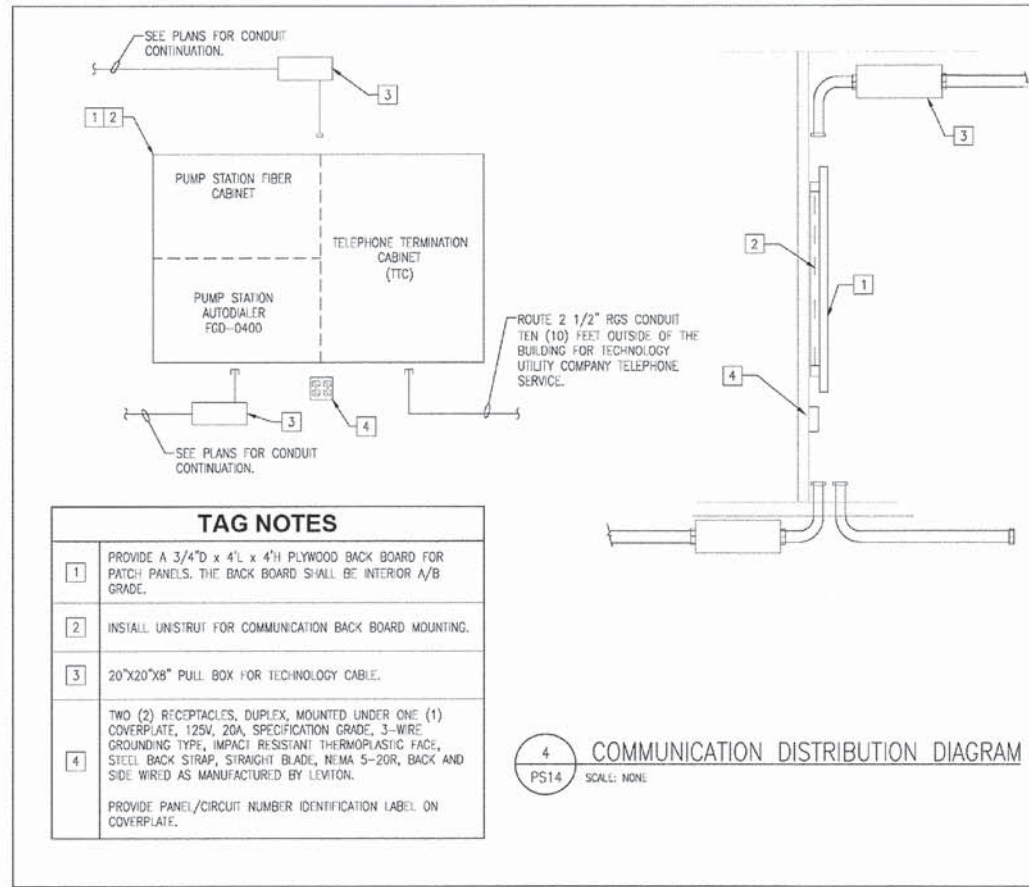
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
PUMP STATION AND CONTROL HOUSE PLANS

SCALE: 1/4" = 1'-0" SHEET NO. PS 12 OF 15

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
187	11-00121-11-BR	LAKE	496	147
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			61A63	



RENTABLE - ...LISLE\VPENTABLE\TRANSPEN\TBL

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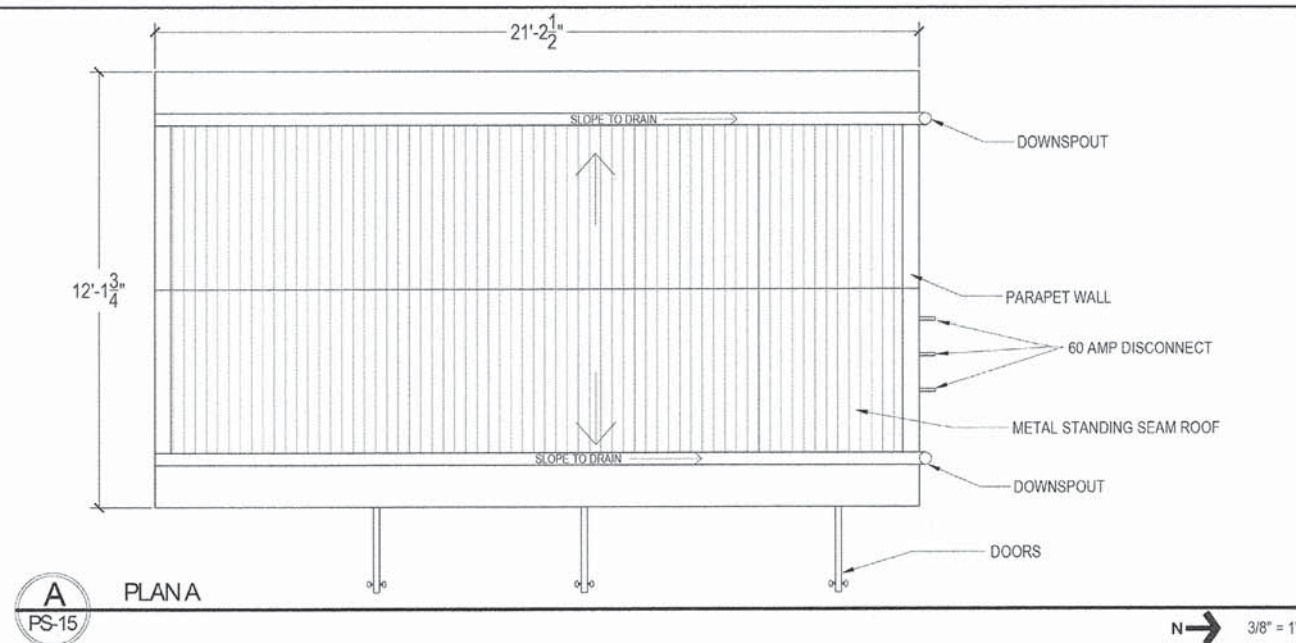
GENERAL NOTES:

EXTERIOR TREATMENTS SHOWN SHALL BE CAST IN PRECAST CONCRETE PANELS.

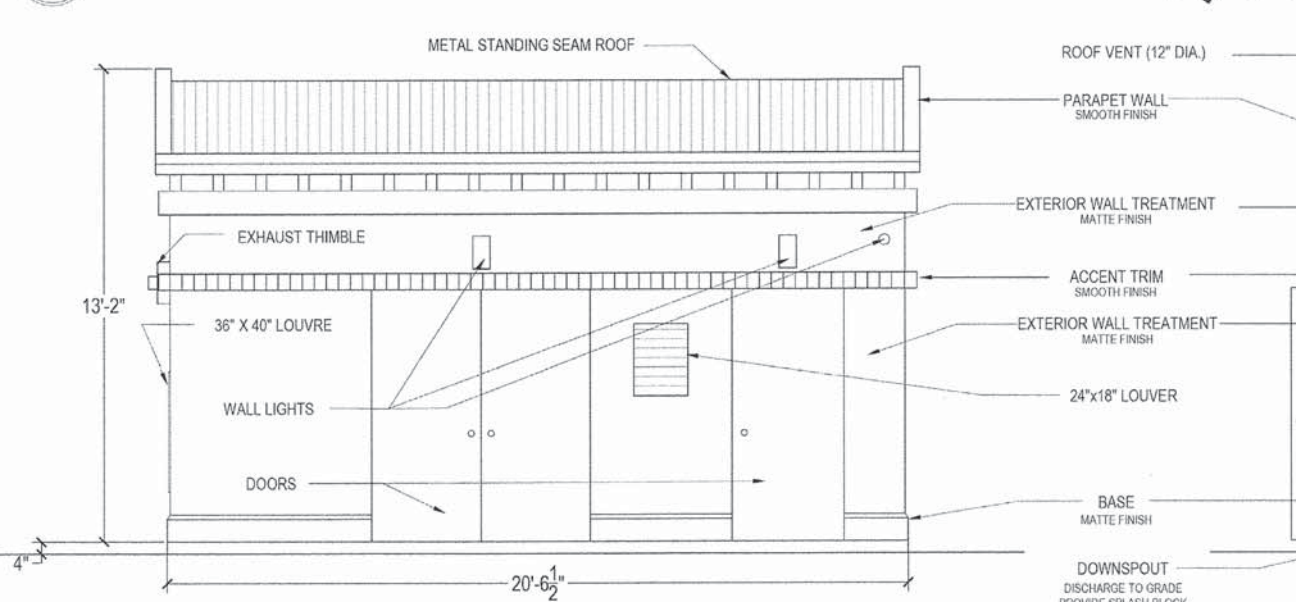
REFER TO ENGINEERING DOCUMENTS FOR CIVIL, HVAC, ELECTRICAL AND STRUCTURAL INFORMATION.

BUILDING ANCHORS TO COORDINATE WITH FOUNDATION PLACEMENT.

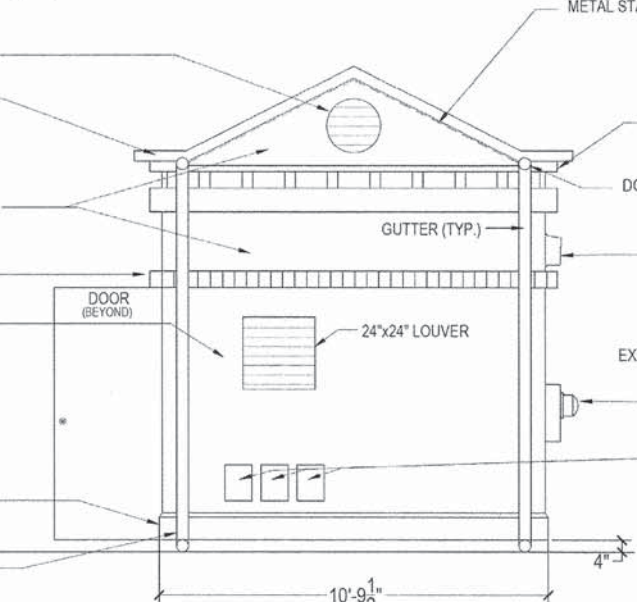
CONTRACTOR SHALL COORDINATE ALL WALL PENETRATIONS AND ATTACHMENTS REQUIRED BY ELECTRICAL AND MECHANICAL ELEMENTS.



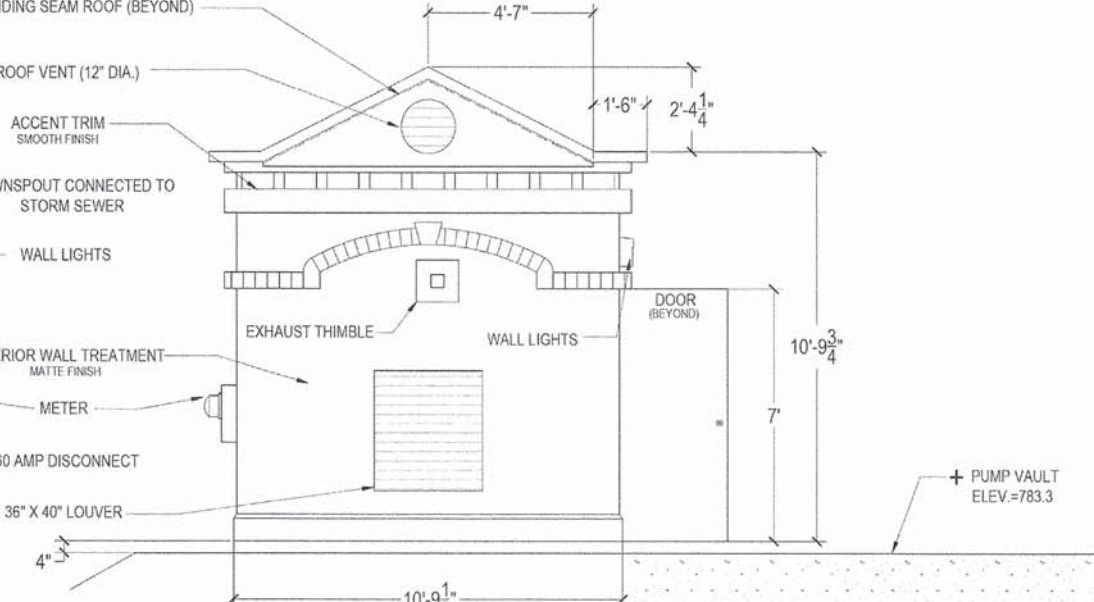
A PLANA
PS-15



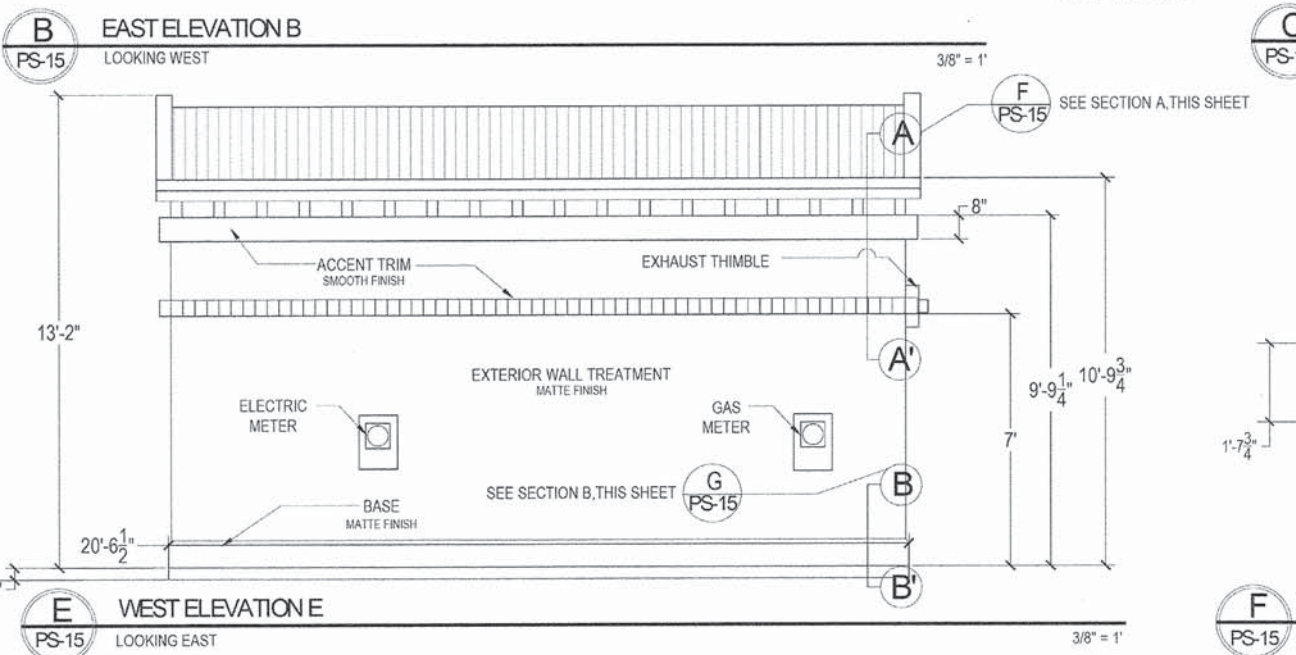
B EAST ELEVATION B
PS-15
LOOKING WEST



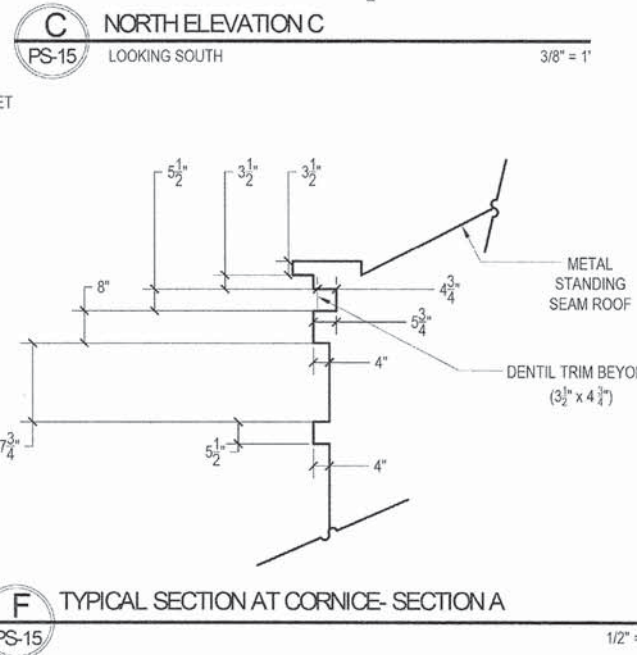
C NORTH ELEVATION C
PS-15
LOOKING SOUTH



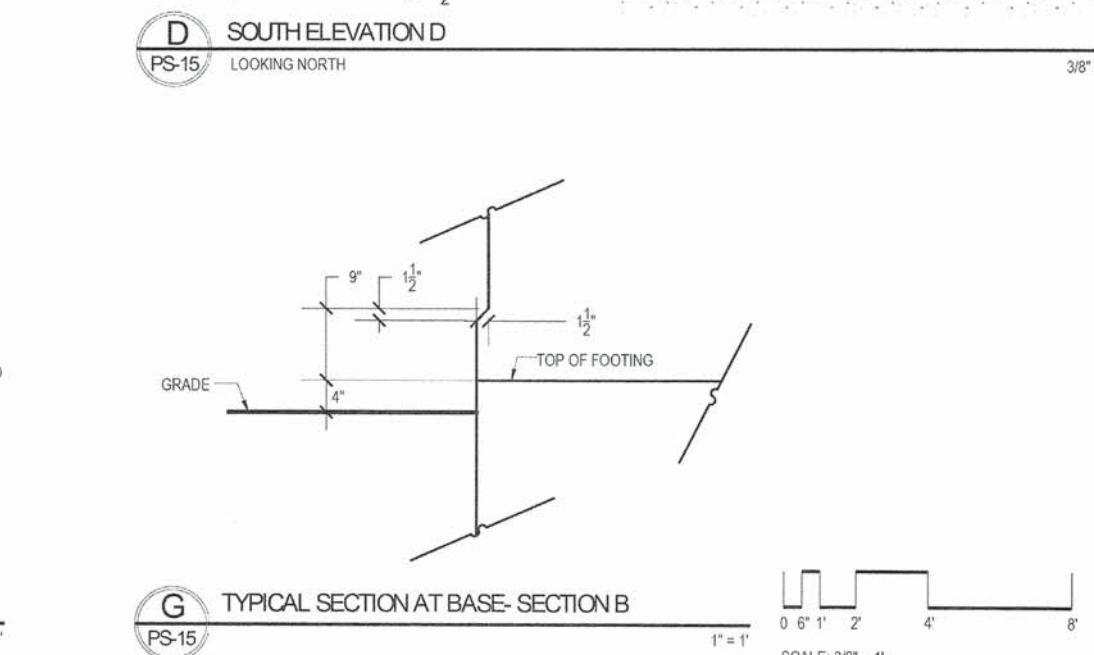
D SOUTH ELEVATION D
PS-15
LOOKING NORTH



E WEST ELEVATION E
PS-15
LOOKING EAST



F TYPICAL SECTION AT CORNICE- SECTION A
PS-15



G TYPICAL SECTION AT BASE- SECTION B
PS-15

<p>Teska Associates 627 Grove Street Evanston, IL 60201 www.TeskaAssociates.com</p>	USER NAME = koeppen(Rdvy.Lis)@teska.com	DESIGNED - JM	REVISED -
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	PLOT SCALE = 1:100	CHECKED - JM	REVISED -
	PLOT DATE = 7/2/2014 10:21:21 PM	DATE - 6/30/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
PUMP STATION ARCHITECTURAL PLAN AND ELEVATION**

SCALE: 3/8" = 1" SHEET NO. PS 15 OF 15 STA. TO STA.

F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 150
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			61A63	

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
187	08-00121-08-BR	PLAT	43	1
		ILLINOIS	CONTRACT NO. 61A63	

INDEX OF SHEETS

- SHEET 1 - COVER SHEET
- SHEET 2 - PLAT OF HIGHWAYS - Washington Street
- SHEET 3 - PLAT OF HIGHWAYS - Washington street
- SHEET 4 - PLAT OF HIGHWAYS - Washington Street
- SHEET 5 - PLAT OF HIGHWAYS - Washington Street

- SHEET 6 - PLAT OF HIGHWAYS - Washington Street
- SHEET 7 - PLAT OF HIGHWAYS - Washington Street
- SHEET 8 - PLAT OF HIGHWAYS - Washington Street
- SHEET 9 - PLAT OF HIGHWAYS - Washington Street
- SHEET 10 - PLAT OF HIGHWAYS - Washington Street

- SHEET 11 - PLAT OF HIGHWAYS - Washington Street
- SHEET 12 - PLAT OF HIGHWAYS - Washington Street
- SHEET 13 - PLAT OF HIGHWAYS - Washington Street
- SHEET 14 - PLAT OF HIGHWAYS - Washington Street
- SHEET 15 - PLAT OF HIGHWAYS - Washington Street
- SHEET 16 - PLAT OF HIGHWAYS - Washington Street
- SHEET 17 - PLAT OF HIGHWAYS - Washington Street
- SHEET 18 - PLAT OF HIGHWAYS - Washington Street
- SHEET 19 - PLAT OF HIGHWAYS - Washington Street
- SHEET 20 - PLAT OF HIGHWAYS - Washington Street

- SHEET 21 - PLAT OF HIGHWAYS - Washington Street
- SHEET 22 - PLAT OF HIGHWAYS - Washington Street
- SHEET 23 - PLAT OF HIGHWAYS - Hainesville Road
- SHEET 24 - PLAT OF HIGHWAYS - Hainesville Road
- SHEET 25 - PLAT OF HIGHWAYS - Hainesville Road
- SHEET 26 - PLAT OF HIGHWAYS - Hainesville Road
- SHEET 27 - PLAT OF HIGHWAYS - Lake Street
- SHEET 28 - PLAT OF HIGHWAYS - Lake Street
- SHEET 29 - PLAT OF HIGHWAYS - Lake Street
- SHEET 30 - PLAT OF HIGHWAYS - Lake Street

- SHEET 31 - PLAT OF HIGHWAYS - Lake Street
- SHEET 32 - PLAT OF HIGHWAYS - Grayslake Park Dist.
- SHEET 33 - PLAT OF HIGHWAYS - Metra North
- SHEET 34 - PLAT OF HIGHWAYS - Metra North
- SHEET 35 - PLAT OF HIGHWAYS - Metra North
- SHEET 36 - PLAT OF HIGHWAYS - Metra North
- SHEET 37 - ALIGNMENT, TIES, AND BENCHMARKS
- SHEET 38 - ALIGNMENT, TIES, AND BENCHMARKS
- SHEET 39 - ALIGNMENT, TIES, AND BENCHMARKS
- SHEET 40 - ALIGNMENT, TIES, AND BENCHMARKS
- SHEET 41 - TOTAL HOLDINGS - PARCELS 0001 & 0001TE
- SHEET 42 - TOTAL HOLDINGS - PARCEL 0061 TE
- SHEET 43 - TOTAL HOLDINGS - PARCELS 0060, 0060TE, 0063, 0063TE, 0064-A, 0064-B, 0064-PE, 0064-TE1 & 0064-TE2

PROJECT LOCATED IN THE VILLAGES OF GRAYSLAKE, HAINESVILLE, ROUND LAKE PARK, AND AVON TOWNSHIP

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

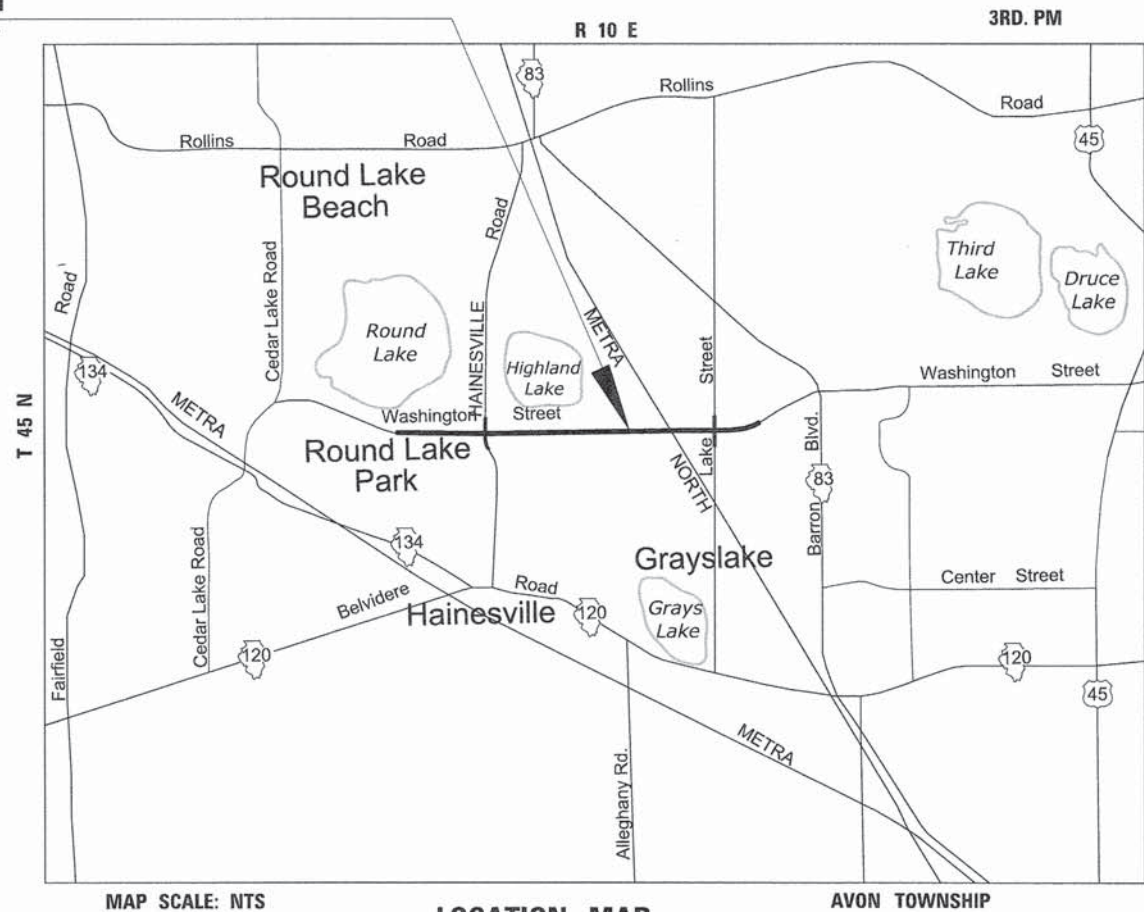
CONTRACT NO. 61A63

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

RIGHT-OF-WAY PLATS FOR PROPOSED FEDERAL AID HIGHWAY

**F.A.U. ROUTE 187 (WASHINGTON STREET)
F.A.U. ROUTE 193 (HAINESVILLE ROAD)
F.A.U. ROUTE 195 (LAKE STREET)
SECTION 08-00121-08-BR
SECTION 01-00121-10-WR
PROJECT CMM-9003(923)
JOB C-91-181-12
LAKE COUNTY**

**PROJECT LOCATION
WASHINGTON STREET
BEGIN IMPROVEMENT
AT STA. 42+51.70
END IMPROVEMENT
AT STA. 143+59.92**



MAP SCALE: NTS
LOCATION MAP
WASHINGTON STREET GROSS AND NET LENGTH = 10108 FT. = 1.91 MILE

PART OF SECTION 21, 22, 23, 26, 27 & 28, T45 N, R 10 E, OF THE 3RD P.M.- LAKE COUNTY, ILLINOIS

BL Bollinger, Lach & Associates, Inc.
333 PIERCE ROAD SUITE 200 ITASCA, IL 60143
P(630) 438 6400 F(630) 438 6444 www.bollingerlach.com
ITASCA • CHICAGO • LAKE GENEVA • SOUTH BEND • INDIANAPOLIS



REVISION	
DATE	DESCRIPTION
6-29-11	C'NTY REV. 6-29-11
7-15-11	ROW REVISIONS
9-14-11	COUNTY REVISIONS
10-14-11	IDOT REVISIONS
11-18-11	IDOT REVISIONS
2-03-12	IDOT REVISIONS
2-14-12	IDOT REVISIONS
6-5-12	TOTAL HOLD. 0060
12-13-12	LEGAL + TABLE 0060
12-18-12	38TE REM, 38+39 REV.
9-9-13	CN, JAWA, 0001, 0010
9-23-13	0010 REMOVED
11-26-13	65TE REM, SIG. BLOCK
2-27-14	66(CLIP), 66TE REV
4-8-14	SE-X LAKE EX. EASE
5-6-14	0066 CHG. TO 0065PE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED _____ 20 _____

COUNTY OF LAKE, COUNTY ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PASSED _____ 20 _____

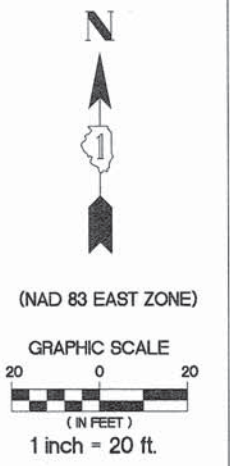
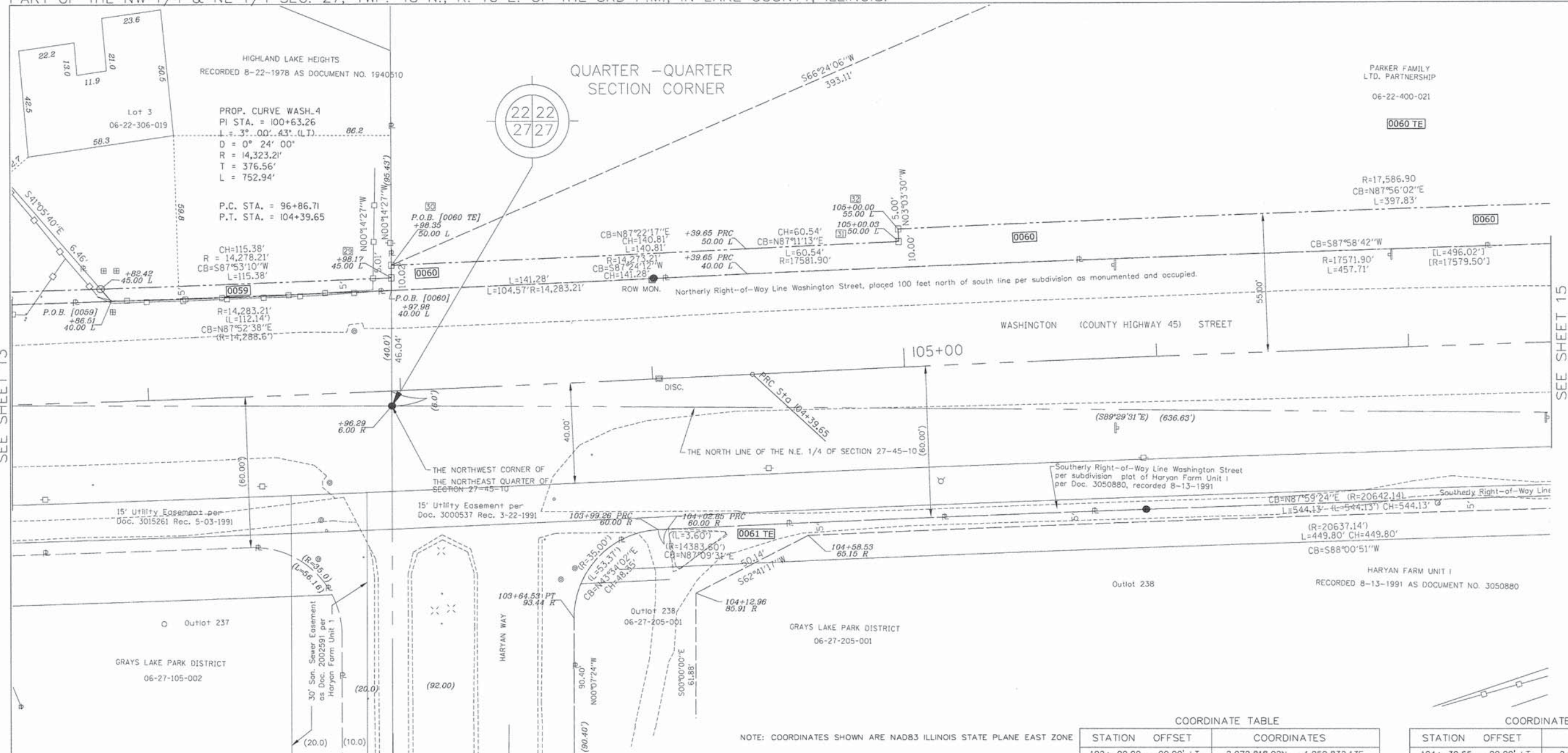
DISTRICT ONE ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW _____ 20 _____

DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

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

PART OF THE SW 1/4 & SE 1/4 SEC. 22, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.
 PART OF THE NW 1/4 & NE 1/4 SEC. 27, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.



SEE SHEET 13

SEE SHEET 15

SEE SHEET 32

LEGEND

- PROPOSED RIGHT OF WAY LINE
- - - PROPOSED EASEMENT
- EXISTING RIGHT OF WAY LINE
- CENTERLINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- SECTION LINE
- 129.324 MEASURED DIMENSION
- 129.324 (COMP) COMPUTED DIMENSION
- (129.324) RECORDED DIMENSION
- + CUT CROSS FOUND OR SET
- IRON PIPE OR IRON ROD
- RESET PIPE OR ROD TO ORIGINAL POSITION.
- T1(B1) THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.
- T2(B2)
- T3(B3)
- T1 DENOTES TIE POINT NO. 1. SET IRON ROD FLUSH WITH GROUND SURFACE.
- (B1) DENOTES TIE POINT NO. 1. SET IRON ROD 20" BELOW GROUND SURFACE.
- DIVISION OF HIGHWAYS RIGHT OF WAY SURVEY MARKER PROPOSED TO BE SET.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

NOTE: COORDINATES SHOWN ARE NAD83 ILLINOIS STATE PLANE EAST ZONE

SCHEDULE OF TIES

POINT NUMBER	TIE POINT	TIE DISTANCE
29	T2 T3	
30	T1 T3	
31	T1 T2 T3	
32	T1 T2 T3	

COORDINATE TABLE

STATION	OFFSET	COORDINATES
102+	00.00 - 00.00' LT.	2,072,818.02N - 1,059,832.13E
102+	96.29 - 6.00' RT.	2,072,815.61N - 1,059,928.59E
102+	97.98 - 40.00' LT.	2,072,861.65N - 1,059,928.39E
102+	98.17 - 45.00' LT.	2,072,866.65N - 1,059,928.37E
102+	98.35 - 50.00' LT.	2,072,871.66N - 1,059,928.35E
103+	64.53 - 93.44' RT.	2,072,731.22N - 1,060,000.77E
103+	99.26 - 60.00' RT.	2,072,766.25N - 1,060,034.09E
104+	02.85 - 60.00' RT.	2,072,766.42N - 1,060,037.68E
104+	12.96 - 85.91' RT.	2,072,741.05N - 1,060,049.09E

COORDINATE TABLE

STATION	OFFSET	COORDINATES
104+	39.65 - 00.00' LT.	2,072,828.19N - 1,060,071.56E
104+	39.65 - 40.00' LT.	2,072,868.13N - 1,060,069.52E
104+	39.65 - 50.00' LT.	2,072,878.12N - 1,060,069.02E
104+	58.53 - 65.15' RT.	2,072,764.05N - 1,060,093.64E
105+	00.00 - 55.00' LT.	2,072,886.08N - 1,060,129.22E
105+	00.03 - 50.00' LT.	2,072,881.09N - 1,060,129.48E
105+	00.00 - 55.00' LT.	2,072,886.08N - 1,060,129.22E
106+	65.57 - 191.00' LT.	2,073,029.02N - 1,060,288.58E
107+	00.00 - 00.00' LT.	2,072,839.49N - 1,060,331.66E

PARCEL NUMBER	OWNER	TOTAL HOLDING ACRES	PART TAKEN/USED ACRES	REMAINDER ACRES	PURPOSE	PERMANENT TAX INDEX NUMBER	ACQUIRED BY DOCUMENT
0059	Hal M. Shepherd, a single man	0.569	0.013	0.556	Ease.	06-22-306-019	
0060	The Parker Family Ltd. Partnership [14 & 15]	37.314	0.189	37.125	R.O.W.	06-22-300-028 06-22-400-021	
0060 TE			1.290		Temp. Ease	06-22-300-028 06-22-400-021	
0061 TE	Grayslake Community Park District	3.431	1.015	3.431	Temp. Ease.	06-27-205-001	

STATE OF ILLINOIS)
 COUNTY OF LAKE) SS
 I, PAULA J. TRIGG, COUNTY ENGINEER OF THE COUNTY AFORESAID, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF FAU 187, FAU 193 & FAU 195 IN SAID COUNTY.
 DATED THIS _____ DAY OF _____, A.D. 20____

STATE OF ILLINOIS)
 COUNTY OF DUPAGE) SS
 THIS IS TO CERTIFY THAT WE, BOLLINGER LACH & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM, NUMBER 184-001129, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 21, 22, 27 AND 28, TOWNSHIP 45 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DIVISION OF TRANSPORTATION, STATE OF ILLINOIS.
 DATED AT ITASCA, ILLINOIS THIS _____ DAY OF _____, 20____ A.D.
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO.2257
 LICENSE EXPIRATION DATE: 11/30/2014
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

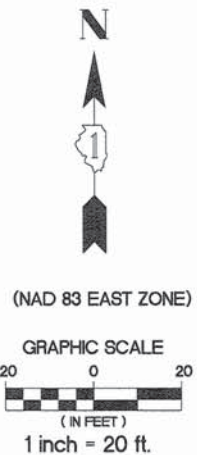
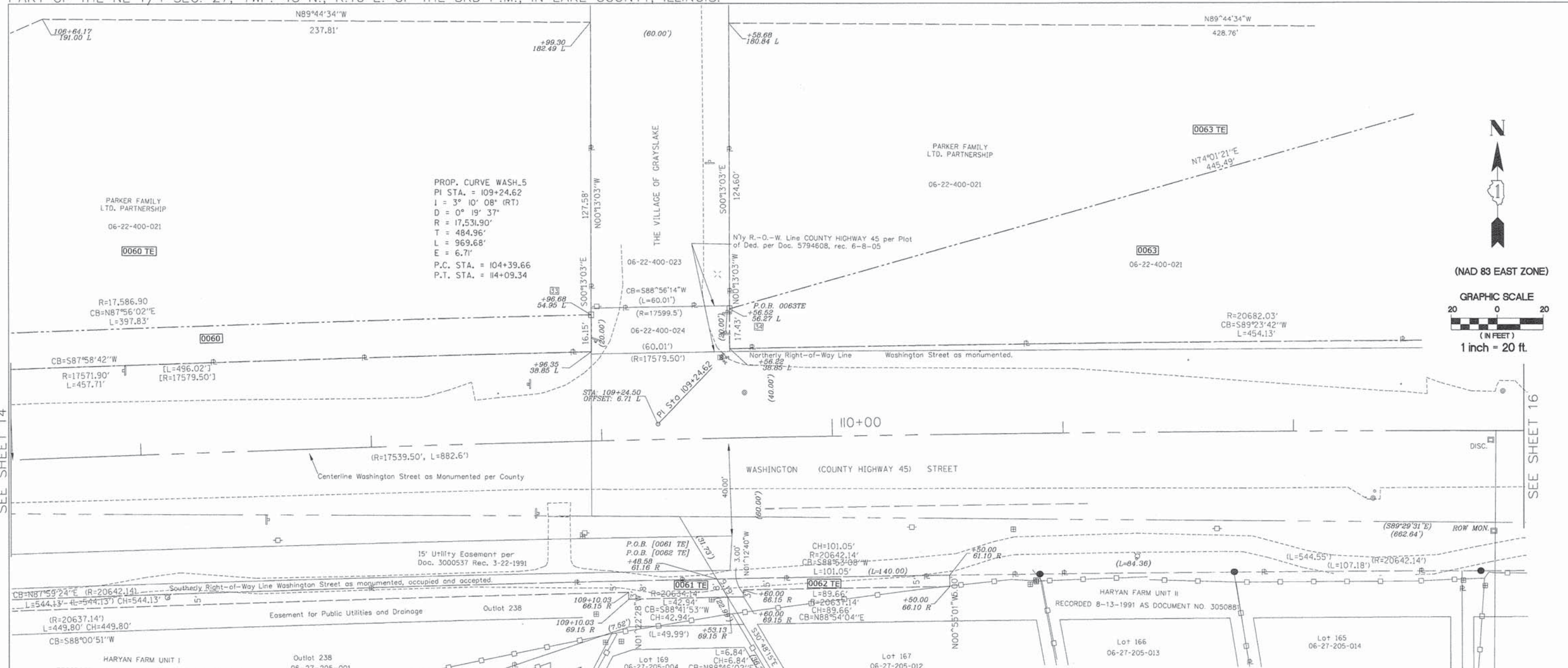
Bollinger, Lach & Associates, Inc.
 333 PIERCE ROAD, SUITE 200 - ITASCA, IL 60143
 P(630) 438 6400 F(630) 438 6444 www.bollingerlach.com
 ITASCA • CHICAGO • LAKE GENEVA • SOUTH BEND • BIRDMARSH

REVISION

DATE	DESCRIPTION
6-29-11	CNTY REV. 6-29-11
7-15-11	ROW REVISIONS
9-14-11	COUNTY REVISIONS
10-14-11	IDOT REVISIONS
11-18-11	IDOT REVISIONS
2-03-12	IDOT REVISIONS
2-14-12	IDOT REVISIONS
6-05-12	TOT.HOLDINGS 0060
12-13-12	LGL + TABLE 0060
9-9-13	JAWA EASE.
11-26-13	SIG. BLOCK

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
PLAT OF HIGHWAYS
 F.A.U. ROUTE 187 (WASHINGTON STREET)
 SECTION. 08-00121-08-BR
 01-00121-10-WR
 JOB NO. R-91-181-12
 STA. 101+50 TO STA. 107+50
 DRAWN: TMS CHECKED: JDB
 [PLAT] 14 OF 43

PART OF THE SE 1/4 SEC. 22, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.
 PART OF THE NE 1/4 SEC. 27, TWP. 45 N., R.10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.



SEE SHEET 14

SEE SHEET 16

STATION	OFFSET	COORDINATES
107+ 00.00	- 00.00' LT.	2,072,839.49N - 1,060,331.66E
108+ 96.35	- 38.85' LT.	2,072,884.28N - 1,060,526.94E
108+ 96.68	- 54.95' LT.	2,072,900.38N - 1,060,526.87E
108+ 99.30	- 182.49' LT.	2,073,027.95N - 1,060,526.39E
109+ 10.03	- 66.15' RT.	2,072,779.64N - 1,060,543.17E
109+ 10.03	- 69.15' RT.	2,072,776.64N - 1,060,543.24E
109+ 24.50	- 6.71' LT.	2,072,852.82N - 1,060,555.89E

STATION	OFFSET	COORDINATES
109+ 48.58	- 61.16' RT.	2,072,785.51N - 1,060,581.46E
109+ 53.13	- 69.15' RT.	2,072,777.61N - 1,060,586.17E
109+ 56.22	- 38.85' LT.	2,072,885.65N - 1,060,586.94E
109+ 56.52	- 56.27' LT.	2,072,903.08N - 1,060,586.86E
109+ 58.68	- 180.84' LT.	2,073,027.68N - 1,060,586.39E

STATION	OFFSET	COORDINATES
109+ 60.00	- 66.15' RT.	2,072,780.76N - 1,060,592.94E
109+ 60.00	- 69.15' RT.	2,072,777.76N - 1,060,593.00E
110+ 50.00	- 61.10' RT.	2,072,787.48N - 1,060,682.50E
110+ 50.00	- 66.10' RT.	2,072,782.48N - 1,060,682.58E
112+ 00.00	- 00.00' LT.	2,072,850.34N - 1,060,831.53E

NOTE: COORDINATES SHOWN ARE NAD83 ILLINOIS STATE PLANE EAST ZONE

LEGEND

- PROPOSED RIGHT OF WAY LINE
- - - PROPOSED EASEMENT
- EXISTING RIGHT OF WAY LINE
- CENTERLINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPL APPARENT PROPERTY LINE
- SECTION LINE
- 129.324 MEASURED DIMENSION
- 129.324 (COMP) COMPUTED DIMENSION
- (129.324) RECORDED DIMENSION
- + CUT CROSS FOUND OR SET
- IRON PIPE OR IRON ROD
- RESET PIPE OR ROD TO ORIGINAL POSITION.
- T1(B1) THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.
- T2(B2) SET 5/8 INCH IRON ROD TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T3(B3)
- T1 DENOTES TIE POINT NO. 1. SET IRON ROD FLUSH WITH GROUND SURFACE.
- (B1) DENOTES TIE POINT NO. 1. SET IRON ROD 20" BELOW GROUND SURFACE.
- DIVISION OF HIGHWAYS RIGHT OF WAY SURVEY MARKER PROPOSED TO BE SET.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

POINT NUMBER	TIE POINT	TIE DISTANCE
33	T1	T2
	T2	T3
34	T1	T2
	T2	T3

STATE OF ILLINOIS)
 COUNTY OF DUPAGE)SS

THIS IS TO CERTIFY THAT WE, BOLLINGER LACH & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM, NUMBER 184-001129, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 21, 22, 27 AND 28, TOWNSHIP 45 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DIVISION OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT ATASCA, ILLINOIS THIS _____ DAY OF _____, 20____ A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO.2257
 LICENSE EXPIRATION DATE: 11/30/2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

PARCEL NUMBER	OWNER	TOTAL HOLDING ACRES	PART TAKEN/USED ACRES	REMAINDER ACRES	PURPOSE	PERMANENT TAX INDEX NUMBER	ACQUIRED BY DOCUMENT
0062 TE	Mark Ward and Janie Ward Trustees of the Ward Living Trust dated October 3, 2007	0.411	0.012	0.411	Temp. Ease.	06-27-205-012	
0060	The Parker Family Ltd. Partnership SEE SHEET 14 AND 15	25.146	0.189	24.957	R.O.W	06-02-400-021	
0063	The Parker Family Ltd. Partnership SEE SHEET 15 AND 16	3.475	1.131	2.344	R.O.W.	06-02-400-021	

STATE OF ILLINOIS)
 COUNTY OF LAKE)SS

I, PAULA J. TRIGG, COUNTY ENGINEER OF THE COUNTY AFORESAID, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF FAU 187, FAU 193 & FAU 195 IN SAID COUNTY.

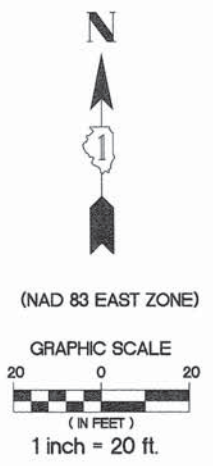
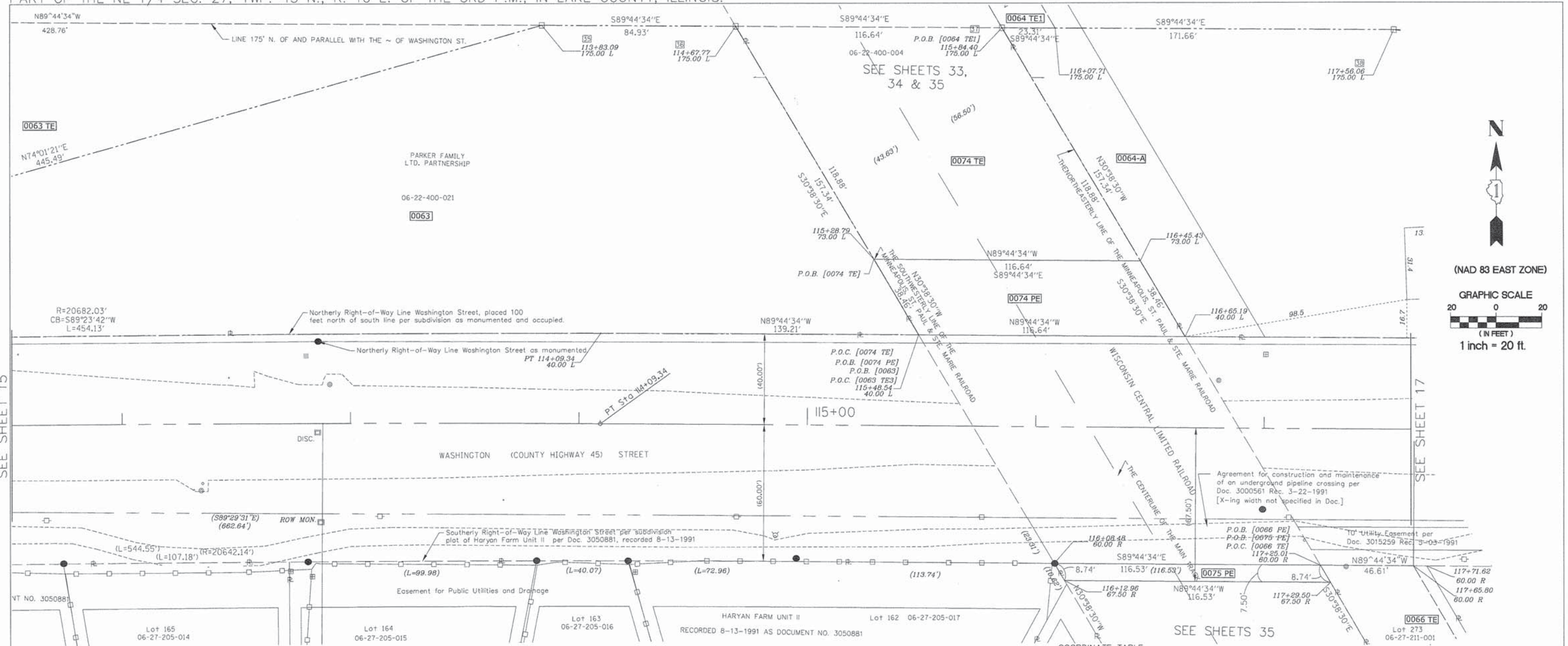
DATED THIS _____ DAY OF _____, A.D. 20____

DATE	DESCRIPTION
6-29-11	CNTY REV. 6-29-11
7-15-11	ROW REVISIONS
9-14-11	COUNTY REVISIONS
10-14-11	IDOT REVISIONS
11-18-11	IDOT REVISIONS
2-03-12	IDOT REVISIONS
2-14-12	IDOT REVISIONS
12-13-12	LGL+TABLE 0060
9-9-13	JAWA EASE.
11-26-13	SIG. BLOCK

Bollinger, Lach & Associates, Inc.
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 PLAT OF HIGHWAYS
 F.A.U. ROUTE 187 (WASHINGTON STREET)
 SECTION. 08-00121-08-BR
 01-00121-10-WR
 JOB NO. R-91-181-12
 STA. 106+50 TO STA. 113+00
 DRAWN: TMS CHECKED: JDB
 SCALE: 1"=20' PLAT 15 OF 43

PART OF THE SE 1/4 SEC. 22, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.
 PART OF THE NE 1/4 SEC. 27, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.



SEE SHEET 15

SEE SHEET 17

LEGEND

- PROPOSED RIGHT OF WAY LINE
- - - PROPOSED EASEMENT
- EXISTING RIGHT OF WAY LINE
- - - CENTERLINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- SECTION LINE
- 129.324 MEASURED DIMENSION
- 129.324 (COMP) COMPUTED DIMENSION
- (129.324) RECORDED DIMENSION
- CUT CROSS FOUND OR SET
- IRON PIPE OR IRON ROD
- RESET PIPE OR ROD TO ORIGINAL POSITION.
- T1(B1) THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.
- T2(B2)
- T3(B3)
- T1 DENOTES TIE POINT NO. 1. SET IRON ROD FLUSH WITH GROUND SURFACE.
- (B1) DENOTES TIE POINT NO. 1. SET IRON ROD 20" BELOW GROUND SURFACE.
- DIVISION OF HIGHWAYS RIGHT OF WAY SURVEY MARKER PROPOSED TO BE SET.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

NOTE: COORDINATES SHOWN ARE NAD83 ILLINOIS STATE PLANE EAST ZONE

SCHEDULE OF TIES

POINT NUMBER	TIE POINT	TIE DISTANCE
35	T1	
	T2	
	T3	
36	T1	
	T2	
	T3	
37	T1	
	T2	
	T3	
38	T1	
	T2	
	T3	

COORDINATE TABLE

STATION	OFFSET	COORDINATES
112+ 00.00	- 00.00' LT.	2,072,850.34N - 1,060,831.53E
112+ 00.00	- 60.85' RT.	2,072,789.48N - 1,060,831.96E
112+ 00.00	- 63.85' RT.	2,072,786.48N - 1,060,831.99E
112+ 73.06	- 60.66' RT.	2,072,790.06N - 1,060,904.78E
112+ 73.06	- 63.66' RT.	2,072,787.06N - 1,060,904.79E
113+ 83.09	- 175.00' LT.	2,073,025.75N - 1,061,015.14E
114+ 09.34	- 00.00' LT.	2,072,850.65N - 1,061,040.86E
114+ 09.34	- 40.00' LT.	2,072,890.45N - 1,061,041.03E
114+ 67.77	- 175.00' LT.	2,073,025.37N - 1,061,100.04E
115+ 28.79	- 73.00' LT.	2,072,923.10N - 1,061,160.64E
115+ 48.54	- 40.00' LT.	2,072,890.00N - 1,061,180.22E
115+ 84.40	- 170.00' LT.	2,073,024.85N - 1,061,216.69E
116+ 07.71	- 170.00' LT.	2,073,024.74N - 1,061,239.99E
116+ 08.48	- 60.00' RT.	2,072,789.74N - 1,061,239.73E
116+ 12.96	- 67.50' RT.	2,072,782.22N - 1,061,244.18E

COORDINATE TABLE

STATION	OFFSET	COORDINATES
116+ 45.43	- 73.00' LT.	2,072,922.58N - 1,061,277.28E
116+ 65.19	- 40.00' LT.	2,072,889.48N - 1,061,296.88E
117+ 00.00	- 00.00' LT.	2,072,849.34N - 1,061,331.52E
117+ 25.01	- 60.00' RT.	2,072,789.22N - 1,061,356.26E
117+ 25.50	- 67.50' RT.	2,072,781.70N - 1,061,360.71E
117+ 56.06	- 170.00' LT.	2,073,024.08N - 1,061,388.31E
117+ 65.80	- 60.00' RT.	2,072,784.80N - 1,061,399.55E
117+ 71.62	- 60.00' RT.	2,072,789.01N - 1,061,402.87E

STATE OF ILLINOIS)
) SS
 COUNTY OF DUPAGE)

THIS IS TO CERTIFY THAT WE, BOLLINGER LACH & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM, NUMBER 184-001129, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 21, 22, 27 AND 28, TOWNSHIP 45 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DIVISION OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT ITASCA, ILLINOIS THIS _____ DAY OF _____, 20 _____ A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO.2257
 LICENSE EXPIRATION DATE: 11/30/2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

REVISION

DATE	DESCRIPTION
6-29-11	CNTY REV. 6-29-11
7-15-11	ROW REVISIONS
9-14-11	COUNTY REVISIONS
10-14-11	IDOT REVISIONS
11-18-11	IDOT REVISIONS
2-03-12	IDOT REVISIONS
2-14-12	IDOT REVISIONS
9-9-13	CN,JAWA EASE.
5-6-14	0066 CHG. TO 0066PE
11-26-13	65TE REM,SIG. BLOCK
2-27-14	66(CLIP),66TE REV

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PARCEL NUMBER	OWNER	TOTAL HOLDING ACRES	PART TAKEN/USED ACRES	REMAINDER ACRES	PURPOSE	PERMANENT TAX INDEX NUMBER	ACQUIRED BY DOCUMENT
0063	SEE SHEET 15						
0063 TE							
0064-A	The Parker Family Ltd. Partnership	66.779	2.090	Sheet 18 see re-cap	R.O.W. Temp. Ease.	06-22-400-021	
0064 TE1			0.456				
0066 TE	Haryan Farm Neighborhood Association	2.103	0.453	2.103	Temp. Ease.	06-27-211-001	
0074 PE	Wisconsin Central Ltd.		0.087		Perm. Ease.	06-22-400-004	
0074 TE	Wisconsin Central Ltd.		0.273		Temp. Ease.	06-22-400-004	
0075 PE	Wisconsin Central Ltd.		0.020		Perm. Ease.	06-27-200-018	

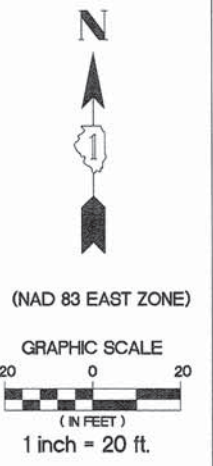
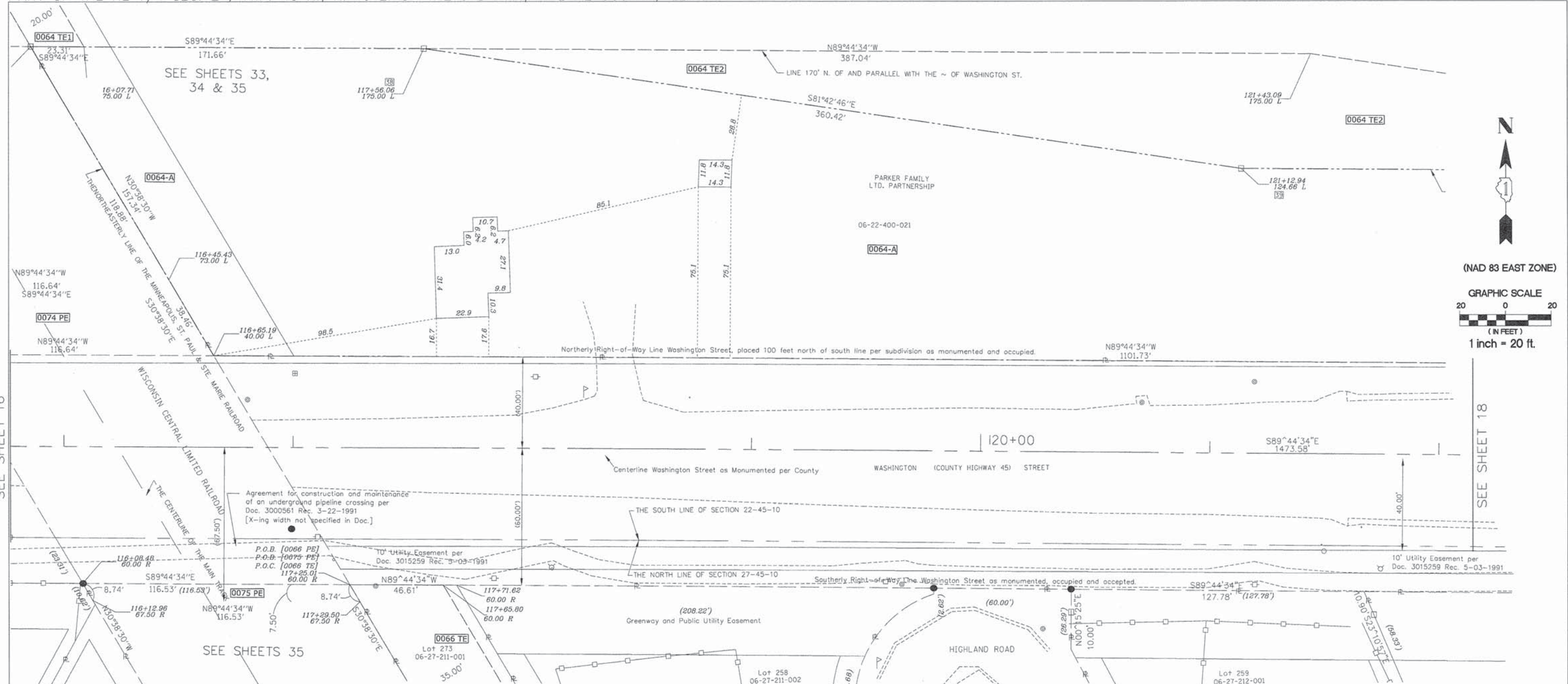
STATE OF ILLINOIS)
) SS
 COUNTY OF LAKE)

I, PAULA J. TRIGG, COUNTY ENGINEER OF THE COUNTY AFORESAID, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF FAU 187, FAU 193 & FAU 195 IN SAID COUNTY.

DATED THIS _____ DAY OF _____, A.D., 20 _____

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 PLAT OF HIGHWAYS
 F.A.U. ROUTE 187 (WASHINGTON STREET)
 SECTION. 08-00121-08-BR
 01-00121-10-WR
 JOB NO. R-91-181-12
 STA. 111+50 TO STA. 117+50
 DRAWN: TMS CHECKED: JDB
 SCALE: 1"=20' PLAT 16 OF 43

PART OF THE SE 1/4 SEC. 22, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.
PART OF THE NE 1/4 SEC. 27, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.



SEE SHEET 16

SEE SHEET 18

LEGEND

- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- EXISTING RIGHT OF WAY LINE
- CENTERLINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- SECTION LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- CUT CROSS FOUND OR SET
- IRON PIPE OR IRON ROD
- RESET PIPE OR ROD TO ORIGINAL POSITION.
- T1(B1) THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.
- T2(B2) SET 5/8 INCH IRON ROD TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T3(B3)
- T1 DENOTES TIE POINT NO. 1. SET IRON ROD FLUSH WITH GROUND SURFACE.
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0066 TE	SEE SHEET 16						
0064-A	The Parker Family Ltd. Partnership	66.779	2.090	Sheet 18 see re-cap	R.O.W.	06-22-400-021	
0064 TE1	SEE SHEET 14, 16 & 17		0.456		Temp. Ease	06-22-400-021	
0064 TE2			0.447		Temp. Ease	06-22-400-021	

COORDINATE TABLE

STATION	OFFSET	COORDINATES
117+	00.00 - 00.00' LT.	2,072,849.34N - 1,061,331.52E
117+	25.01 - 60.00' RT.	2,072,789.21N - 1,061,356.25E
117+	56.06 - 175.00' LT.	2,073,024.09N - 1,061,388.36E
117+	65.80 - 60.00' RT.	2,072,789.03N - 1,061,397.04E

COORDINATE TABLE

STATION	OFFSET	COORDINATES
121+	12.94 - 124.66' LT.	2,072,972.13N - 1,061,745.01E
121+	43.05 - 175.00' LT.	2,073,022.34N - 1,061,775.35E

COORDINATE TABLE

STATION	OFFSET	COORDINATES
122+	00.00 - 00.00' LT.	2,072,847.10N - 1,061,831.52E

SCHEDULE OF TIES

POINT NUMBER	TIE POINT	TIE DISTANCE
38	T1 T2 T3	
39	T1 T2 T3	

STATE OF ILLINOIS)
COUNTY OF DUPAGE)

THIS IS TO CERTIFY THAT WE, BOLLINGER LACH & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM, NUMBER 184-001129, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 21, 22, 27 AND 28, TOWNSHIP 45 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DIVISION OF TRANSPORTATION, STATE OF ILLINOIS.
DATED AT ITASCA, ILLINOIS THIS _____ DAY OF _____, 20____ A.D.
ILLINOIS PROFESSIONAL LAND SURVEYOR NO.2257
LICENSE EXPIRATION DATE: 11/30/2014
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

STATE OF ILLINOIS)
COUNTY OF LAKE)
I, PAULA J. TRIGG, COUNTY ENGINEER OF THE COUNTY AFORESAID, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF FAU 187, FAU 193 & FAU 195 IN SAID COUNTY.
DATED THIS _____ DAY OF _____, A.D., 20____.

NOTE: COORDINATES SHOWN ARE NAD83 ILLINOIS STATE PLANE EAST ZONE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLAT OF HIGHWAYS
F.A.U. ROUTE 187 (WASHINGTON STREET)
SECTION. 08-00121-08-BR
01-00121-10-WR
JOB NO. R-91-181-12
STA. 115+75 TO STA. 122+25
DRAWN: TMS CHECKED: JDB
SCALE: 1"=20' PLAT 17 OF 43

REVISION

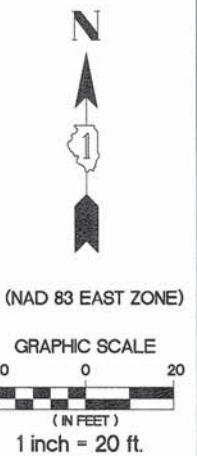
DATE	DESCRIPTION
6-29-11	CNTY REV. 6-29-11
7-15-11	ROW REVISIONS
9-14-11	COUNTY REVISIONS
10-14-11	IDOT REVISIONS
11-18-11	IDOT REVISIONS
2-03-12	IDOT REVISIONS
2-14-12	IDOT REVISIONS
9-09-13	CN, JAWA EASE.
11-26-13	SIG. BLOCK
2-27-14	66(CLIP),66TE REV

PART OF THE SE 1/4 SEC. 22, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.
 PART OF THE NE 1/4 SEC. 27, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.

[SEE NEXT SHEET FOR ADDITIONAL DATA THIS AREA]
 NOTE: COORDINATES SHOWN ARE NAD83 ILLINOIS STATE PLANE EAST ZONE

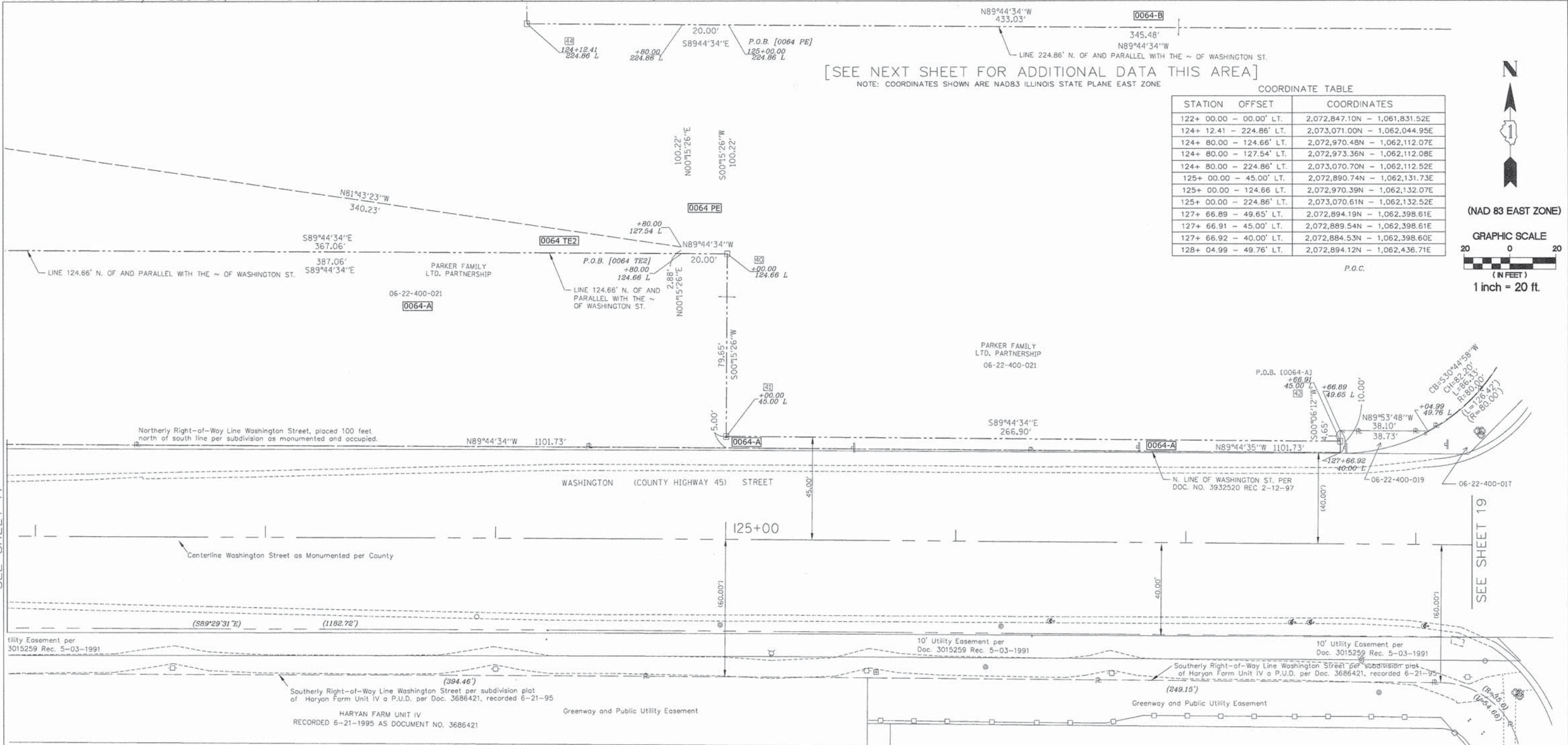
COORDINATE TABLE

STATION	OFFSET	COORDINATES
122+	00.00 - 00.00' LT.	2,072,847.10N - 1,061,831.52E
124+	12.41 - 224.86' LT.	2,073,071.00N - 1,062,044.95E
124+	80.00 - 124.66' LT.	2,072,970.48N - 1,062,112.07E
124+	80.00 - 127.54' LT.	2,072,973.36N - 1,062,112.08E
124+	80.00 - 224.86' LT.	2,073,070.70N - 1,062,112.52E
125+	00.00 - 45.00' LT.	2,072,890.74N - 1,062,131.73E
125+	00.00 - 124.66' LT.	2,072,970.39N - 1,062,132.07E
125+	00.00 - 224.86' LT.	2,073,070.61N - 1,062,132.52E
127+	66.89 - 49.65' LT.	2,072,894.19N - 1,062,398.61E
127+	66.91 - 45.00' LT.	2,072,889.54N - 1,062,398.61E
127+	66.92 - 40.00' LT.	2,072,884.53N - 1,062,398.60E
128+	04.99 - 49.76' LT.	2,072,894.12N - 1,062,436.71E



SEE SHEET 17

SEE SHEET 19



- LEGEND**
- PROPOSED RIGHT OF WAY LINE
 - - - PROPOSED EASEMENT
 - EXISTING RIGHT OF WAY LINE
 - CENTERLINE
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- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

SCHEDULE OF TIES

POINT NUMBER	TIE POINT	TIE DISTANCE
40	T1	
	T2	
	T3	
41	T1	
	T2	
	T3	
42	T1	
	T2	
	T3	
44	T1	
	T2	
	T3	

STATE OF ILLINOIS)
 COUNTY OF DUPAGE)

THIS IS TO CERTIFY THAT WE, BOLLINGER LACH & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM, NUMBER 184-001129, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 21, 22, 27 AND 28, TOWNSHIP 45 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DIVISION OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT ITASCA, ILLINOIS THIS _____ DAY OF _____, 20____ A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO.2257
 LICENSE EXPIRATION DATE: 11/30/2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

REVISION

DATE	DESCRIPTION
6-29-11	C'NTY REV. 6-29-11
7-15-11	ROW REVISIONS
9-14-11	COUNTY REVISIONS
10-14-11	IDOT REVISIONS
11-18-11	IDOT REVISIONS
2-03-12	IDOT REVISIONS
2-14-12	IDOT REVISIONS
9-9-13	JAWA EASE.
11-26-13	SIG. BLOCK

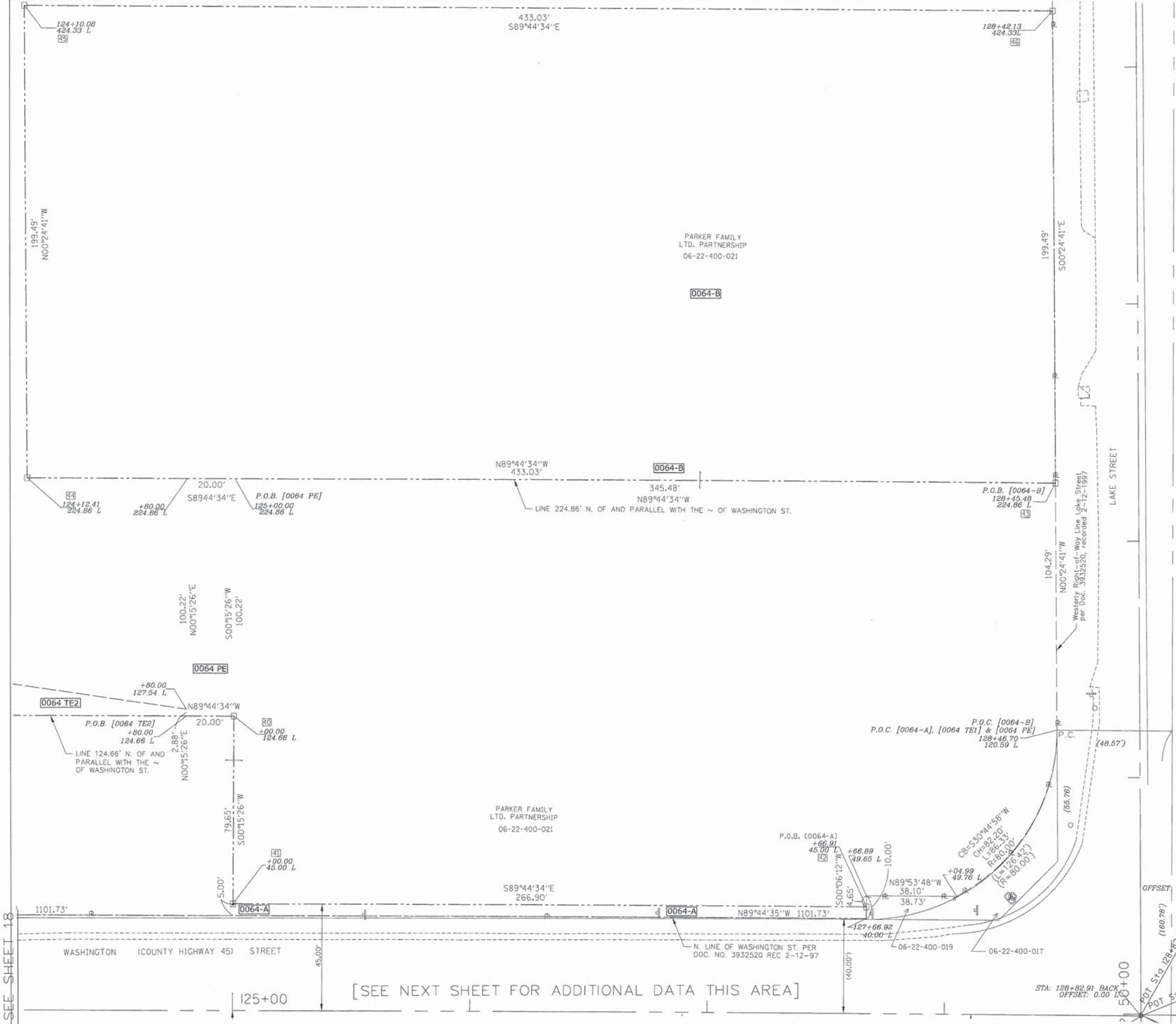
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 PLAT OF HIGHWAYS
 F.A.U. ROUTE 187 (WASHINGTON STREET)
 SECTION. 08-00121-08-BR
 01-00121-10-WR
 JOB NO. R-91-181-12
 STA. 121+75 TO STA. 128+25
 DRAWN: TMS CHECKED: JDB
 SCALE: 1"=20' PLAT 18 OF 43

PARCEL NUMBER	OWNER	TOTAL HOLDING ACRES	PART TAKEN/USED ACRES	REMAINDER ACRES	PURPOSE	PERMANENT TAX INDEX NUMBER	ACQUIRED BY DOCUMENT
0064-A 0064-B	The Parker Family Ltd. Partnership SEE SHEET 17, 18 AND 19	66.779	2.090 1.983	62.706	R.O.W. R.O.W.	06-02-400-021	
0064 PE	The Parker Family Ltd. Partnership SEE SHEET 17, 18 AND 19	66.779	0.046	62.706	Perm. Ease.	06-02-400-021	
0064 TE2	The Parker Family Ltd. Partnership SEE SHEET 14 & 17	66.779	0.447	62.706	Temp. Ease.	06-02-400-021	

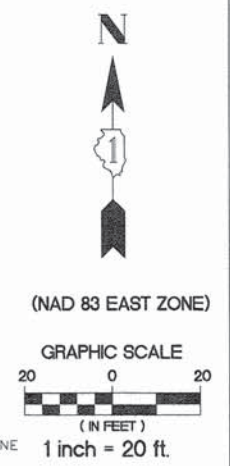
I, PAULA J. TRIGG, COUNTY ENGINEER OF THE COUNTY AFORESAID, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF FAU 187, FAU 193 & FAU 195 IN SAID COUNTY.
 DATED THIS _____ DAY OF _____, A.D. 20____

PART OF THE SE 1/4 SEC. 22 & SW 1/4 SEC. 23, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.
 PART OF THE NE 1/4 SEC. 27 & NW 1/4 SEC. 26, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.



COORDINATE TABLE

STATION	OFFSET	COORDINATES
124+ 10.08	- 424.33' LT.	2,073,270.48N - 1,062,043.51E
124+ 12.41	- 224.86' LT.	2,073,071.00N - 1,062,044.95E
124+ 80.00	- 124.66' LT.	2,072,970.48N - 1,062,112.07E
124+ 80.00	- 127.54' LT.	2,072,973.36N - 1,062,112.08E
124+ 80.00	- 224.86' LT.	2,073,070.70N - 1,062,112.52E
125+ 00.00	- 45.00' LT.	2,072,890.74N - 1,062,131.73E
125+ 00.00	- 124.66 LT.	2,072,970.39N - 1,062,132.07E
125+ 00.00	- 224.86' LT.	2,073,070.61N - 1,062,132.52E
127+ 66.89	- 49.65' LT.	2,072,894.19N - 1,062,398.61E
127+ 66.91	- 45.00' LT.	2,072,889.54N - 1,062,398.61E
127+ 66.92	- 40.00' LT.	2,072,884.53N - 1,062,398.60E
128+ 04.99	- 49.76' LT.	2,072,894.12N - 1,062,436.71E
128+ 42.13	- 424.33' LT.	2,073,268.54N - 1,062,476.55E
128+ 45.48	- 224.86' LT.	2,073,069.05N - 1,062,477.99E
128+ 46.70	- 120.59' LT.	2,072,964.77N - 1,062,478.74E
128+ 82.91	- 00.00' LT.	2,072,844.44N - 1,062,514.42E



NOTE: COORDINATES SHOWN ARE NAD83 ILLINOIS STATE PLANE EAST ZONE

LEGEND

---	PROPOSED RIGHT OF WAY LINE	○	RESET PIPE OR ROD TO ORIGINAL POSITION.
---	PROPOSED EASEMENT	○ T1(B1)	THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.
---	EXISTING RIGHT OF WAY LINE	○ T2(B2)	SET 5/8 INCH IRON ROD TO TIE FOUND IRON STAKE IDENTIFIED BY
---	CENTERLINE	○ T3(B3)	COLORLED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
---	PLATTED LOT LINES	○ T1	DENOTES TIE POINT NO. 1, SET IRON ROD FLUSH WITH GROUND SURFACE.
---	PROPERTY (DEED) LINE	○ (B1)	DENOTES TIE POINT NO. 1, SET IRON ROD 20' BELOW GROUND SURFACE.
---	APL APPARENT PROPERTY LINE	□	DIVISION OF HIGHWAYS RIGHT OF WAY SURVEY MARKER PROPOSED TO BE SET.
---	SECTION LINE	+	STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
129.324	MEASURED DIMENSION	●	PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
129.324 (COMP)	COMPUTED DIMENSION		
(129.324)	RECORDED DIMENSION		
+	CUT CROSS FOUND OR SET		
●	IRON PIPE OR IRON ROD		

STATE OF ILLINOIS)
 COUNTY OF DUPAGE) SS

THIS IS TO CERTIFY THAT WE, BOLLINGER LACH & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM, NUMBER 184-001129, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 21, 22, 27 AND 28, TOWNSHIP 45 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DIVISION OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT ITASCA, ILLINOIS THIS _____ DAY OF _____, 20____ A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO.2257
 LICENSE EXPIRATION DATE: 11/30/2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

STATE OF ILLINOIS)
 COUNTY OF LAKE) SS

I, PAULA J. TRIGG, COUNTY ENGINEER OF THE COUNTY AFORESAID, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF FAU 187, FAU 193 & FAU 195 IN SAID COUNTY.

DATED THIS _____ DAY OF _____, A.D., 20____

POINT NUMBER	SCHEDULE OF TIES	
	TIE POINT	TIE DISTANCE
40	T1 T2 T3	
41	T1 T2 T3	
42	T1 T2 T3	
43	T1 T2 T3	
44	T1 T2 T3	
45	T1 T2 T3	
46	T1 T2 T3	

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 P:(630) 438 6400 F:(630) 438 6444 www.bollingerlach.com
 ITASCA • CHICAGO • LAKE GENEVA • SOUTH BEND • INDIANAPOLIS

DATE	DESCRIPTION
6-29-11	CNTY REV. 6-29-11
7-15-11	ROW REVISIONS
9-14-11	COUNTY REVISIONS
10-14-11	IDOT REVISIONS
11-18-11	IDOT REVISIONS
2-03-12	IDOT REVISIONS
2-14-12	IDOT REVISIONS
11-26-13	SIG. BLOCK

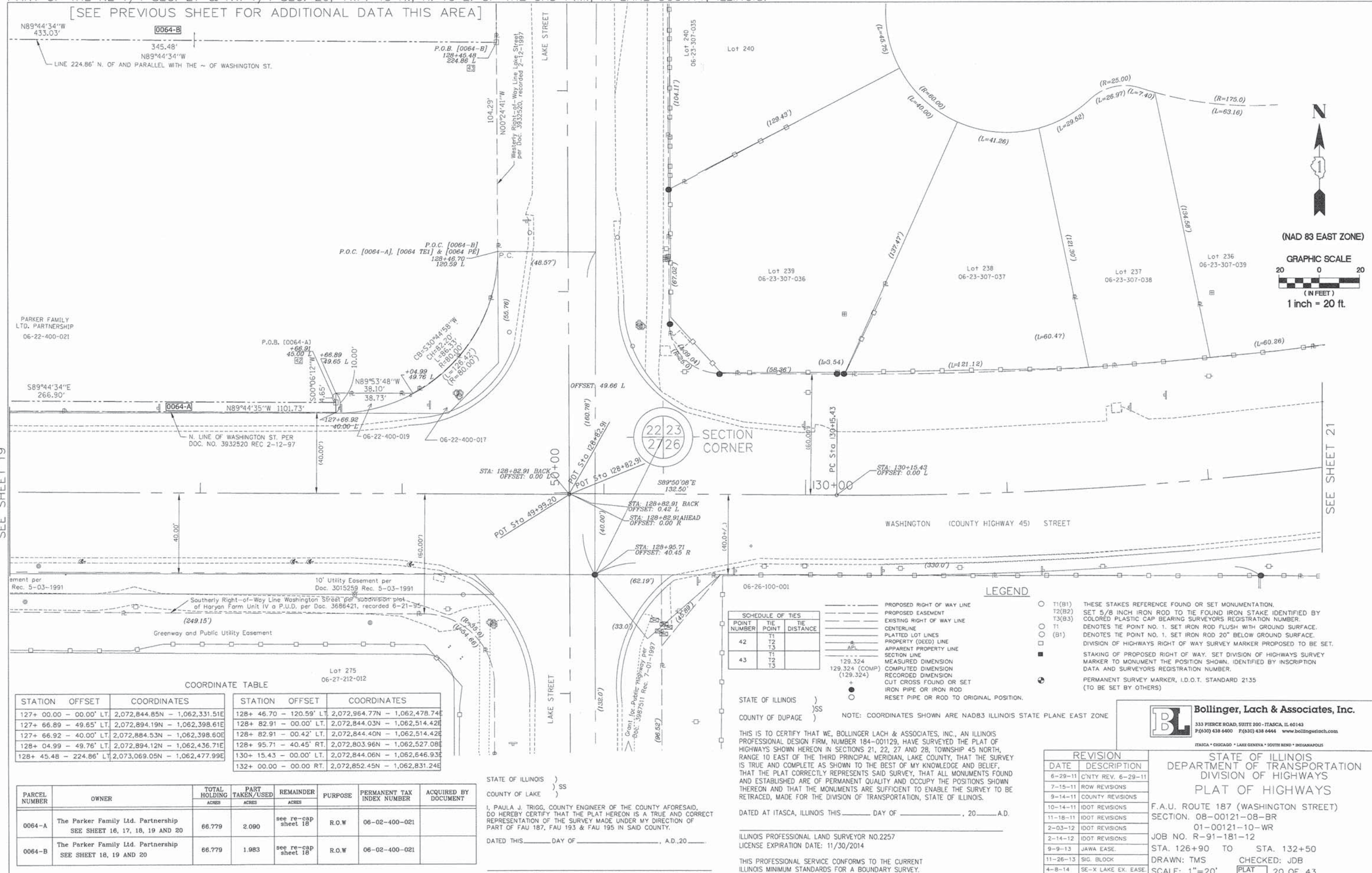
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 PLAT OF HIGHWAYS
 F.A.U. ROUTE 187 (WASHINGTON STREET)
 SECTION. 08-00121-08-BR
 01-00121-10-WR
 JOB NO. R-91-181-12
 STA. 124+25 TO STA. 129+25
 DRAWN: TMS CHECKED: JDB
 SCALE: 1"=20' PLAT 19 OF 43

SEE SHEET 18

[SEE NEXT SHEET FOR ADDITIONAL DATA THIS AREA]

PART OF THE SE 1/4 SEC. 22 & SW 1/4 SEC. 23, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.
 PART OF THE NE 1/4 SEC. 27 & NW 1/4 SEC. 26, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.

[SEE PREVIOUS SHEET FOR ADDITIONAL DATA THIS AREA]



SEE SHEET 19

SEE SHEET 21

COORDINATE TABLE

STATION	OFFSET	COORDINATES	STATION	OFFSET	COORDINATES
127+ 00.00	- 00.00' LT.	2,072,844.85N - 1,062,331.51E	128+ 46.70	- 120.59' LT.	2,072,964.77N - 1,062,478.74E
127+ 66.89	- 49.65' LT.	2,072,894.19N - 1,062,398.61E	128+ 82.91	- 00.00' LT.	2,072,844.03N - 1,062,514.42E
127+ 66.92	- 40.00' LT.	2,072,884.53N - 1,062,398.60E	128+ 82.91	- 00.42' LT.	2,072,844.40N - 1,062,514.42E
128+ 04.99	- 49.76' LT.	2,072,894.12N - 1,062,436.71E	128+ 95.71	- 40.45' RT.	2,072,803.96N - 1,062,527.08E
128+ 45.48	- 224.86' LT.	2,073,069.05N - 1,062,477.99E	130+ 15.43	- 00.00' LT.	2,072,844.06N - 1,062,646.93E
			132+ 00.00	- 00.00' RT.	2,072,852.45N - 1,062,831.24E

PARCEL NUMBER	OWNER	TOTAL HOLDING	PART TAKEN/USED	REMAINDER	PURPOSE	PERMANENT TAX INDEX NUMBER	ACQUIRED BY DOCUMENT
		ACRES	ACRES	ACRES			
0064-A	The Parker Family Ltd. Partnership SEE SHEET 16, 17, 18, 19 AND 20	66.779	2.090	see re-cap sheet 18	R.O.W.	06-02-400-021	
0064-B	The Parker Family Ltd. Partnership SEE SHEET 18, 19 AND 20	66.779	1.983	see re-cap sheet 18	R.O.W.	06-02-400-021	

STATE OF ILLINOIS)
 COUNTY OF LAKE) SS
 I, PAULA J. TRIGG, COUNTY ENGINEER OF THE COUNTY AFORESAID, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF FAU 187, FAU 193 & FAU 195 IN SAID COUNTY.
 DATED THIS _____ DAY OF _____, A.D. 20____

SCHEDULE OF TIES

POINT NUMBER	TIE POINT	TIE DISTANCE
42	T1	
	T2	
	T3	
43	T1	
	T2	
	T3	

- LEGEND
- PROPOSED RIGHT OF WAY LINE
 - - - PROPOSED EASEMENT
 - EXISTING RIGHT OF WAY LINE
 - CENTERLINE
 - PLATTED LOT LINES
 - PROPERTY (DEED) LINE
 - APPARENT PROPERTY LINE
 - SECTION LINE
 - MEASURED DIMENSION
 - COMPUTED DIMENSION
 - RECORDED DIMENSION
 - CUT CROSS FOUND OR SET
 - IRON PIPE OR IRON ROD
 - RESET PIPE OR ROD TO ORIGINAL POSITION.

- T1(B1) THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.
- T2(B2) SET 5/8 INCH IRON ROD TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T3(B3) DENOTES TIE POINT NO. 1. SET IRON ROD FLUSH WITH GROUND SURFACE.
- T1 DENOTES TIE POINT NO. 1. SET IRON ROD 20" BELOW GROUND SURFACE.
- (B1) DIVISION OF HIGHWAYS RIGHT OF WAY SURVEY MARKER PROPOSED TO BE SET.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

STATE OF ILLINOIS)
 COUNTY OF DUPAGE) SS
 NOTE: COORDINATES SHOWN ARE NAD83 ILLINOIS STATE PLANE EAST ZONE

THIS IS TO CERTIFY THAT WE, BOLLINGER LACH & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM, NUMBER 184-001129, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 21, 22, 27 AND 28, TOWNSHIP 45 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DIVISION OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT ITASCA, ILLINOIS THIS _____ DAY OF _____, 20____ A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO.2257
 LICENSE EXPIRATION DATE: 11/30/2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

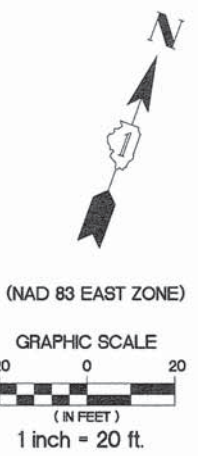
Bollinger, Lach & Associates, Inc.
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 P:(630) 438 6400 F:(630) 438 6444 www.bollingertech.com
 ITASCA • CHICAGO • LAKE GENEVA • SOUTH BEND • INDIANAPOLIS

REVISION	DATE	DESCRIPTION
6-29-11	CNTY REV.	6-29-11
7-15-11	ROW REVISIONS	
9-14-11	COUNTY REVISIONS	
10-14-11	IDOT REVISIONS	
11-18-11	IDOT REVISIONS	
2-03-12	IDOT REVISIONS	
2-14-12	IDOT REVISIONS	
9-9-13	JAWA EASE.	
11-26-13	SIG. BLOCK	
4-8-14	SE-X LAKE EX. EASE.	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 PLAT OF HIGHWAYS

F.A.U. ROUTE 187 (WASHINGTON STREET)
 SECTION. 08-00121-08-BR
 01-00121-10-WR
 JOB NO. R-91-181-12
 STA. 126+90 TO STA. 132+50
 DRAWN: TMS CHECKED: JDB
 SCALE: 1"=20' PLAT 20 OF 43

PART OF THE SW 1/4 SEC. 23, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.
 PART OF THE NW 1/4 SEC. 26, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.



SEE SHEET 20

SEE SHEET 22

LEGEND

- PROPOSED RIGHT OF WAY LINE
- - - PROPOSED EASEMENT
- EXISTING RIGHT OF WAY LINE
- CENTERLINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- API APPARENT PROPERTY LINE
- SECTION LINE
- 129.324 MEASURED DIMENSION
- 129.324 (COMP) COMPUTED DIMENSION
- (129.324) RECORDED DIMENSION
- + CUT CROSS FOUND OR SET
- IRON PIPE OR IRON ROD
- RESET PIPE OR ROD TO ORIGINAL POSITION.
- T1(B1) THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.
- T2(B2) SET 5/8 INCH IRON ROD TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T3(B3)
- T1 DENOTES TIE POINT NO. 1. SET IRON ROD FLUSH WITH GROUND SURFACE.
- (B1) DENOTES TIE POINT NO. 1. SET IRON ROD 20" BELOW GROUND SURFACE.
- DIVISION OF HIGHWAYS RIGHT OF WAY SURVEY MARKER PROPOSED TO BE SET.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

NOTE: COORDINATES SHOWN ARE NAD83 ILLINOIS STATE PLANE EAST ZONE

COORDINATE TABLE

STATION	OFFSET	COORDINATES
132+ 00.00	- 00.00' LT.	2,072,852.45N - 1,062,831.24E
134+ 84.22	- 59.01' RT.	2,072,842.68N - 1,063,125.37E
137+ 00.00	- 00.00' LT.	2,072,963.51N - 1,063,317.29E

STATE OF ILLINOIS)
)SS
 COUNTY OF DUPAGE)

THIS IS TO CERTIFY THAT WE, BOLLINGER LACH & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM, NUMBER 184-001129, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 21, 22, 27 AND 28, TOWNSHIP 45 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DIVISION OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT ATASCA, ILLINOIS THIS _____ DAY OF _____, 20____ A.D.

STATE OF ILLINOIS)
)SS
 COUNTY OF LAKE)

I, PAULA J. TRIGG, COUNTY ENGINEER OF THE COUNTY AFORESAID, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF FAU 187, FAU 193 & FAU 195 IN SAID COUNTY.

DATED THIS _____ DAY OF _____, A.D., 20____

ILLINOIS PROFESSIONAL LAND SURVEYOR NO.2257
 LICENSE EXPIRATION DATE: 11/30/2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

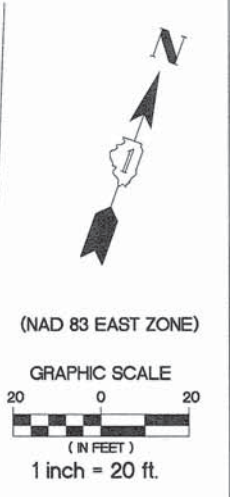
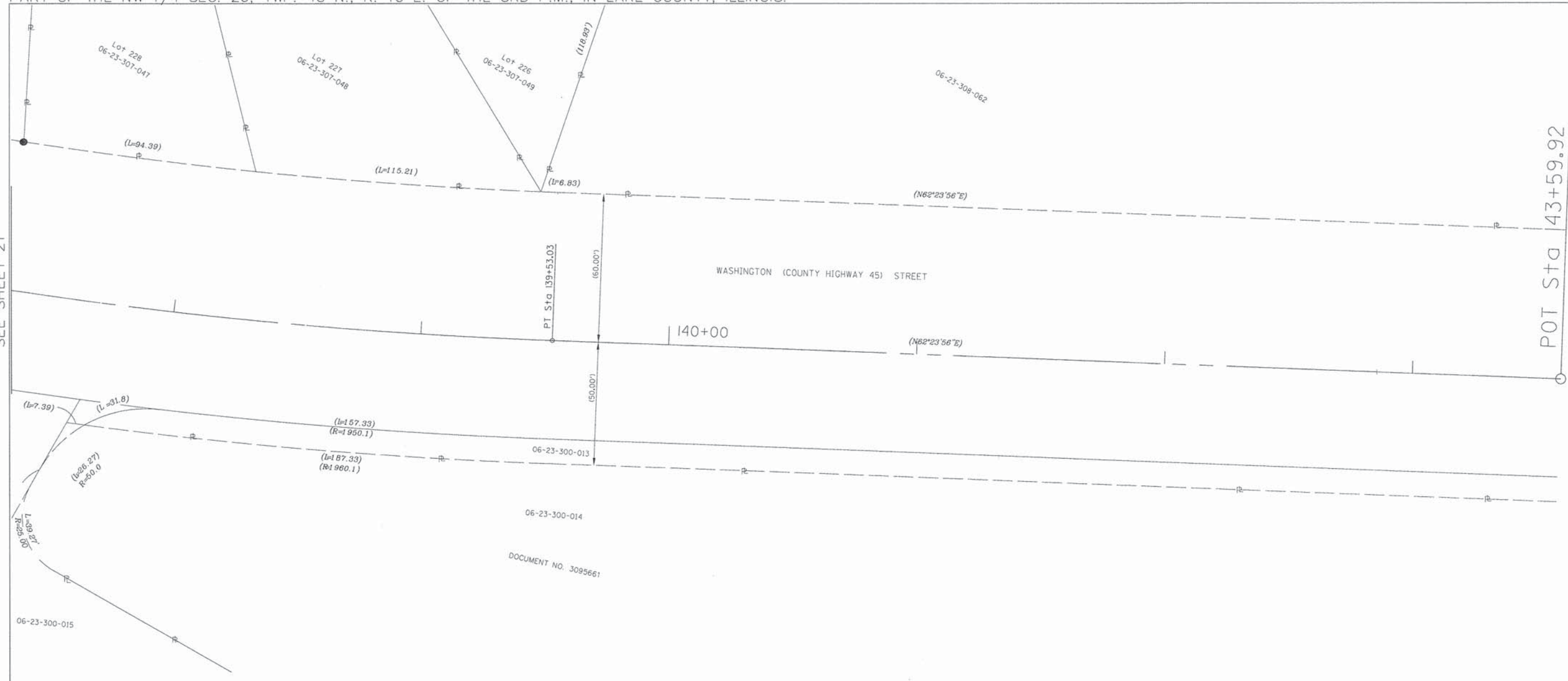
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 P:(630) 438 6400 F:(630) 438 6444 www.bollingerlach.com
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DATE	DESCRIPTION
6-29-11	C'NTY REV. 6-29-11
7-15-11	ROW REVISIONS
9-14-11	COUNTY REVISIONS
10-14-11	IDOT REVISIONS
11-18-11	IDOT REVISIONS
2-03-12	IDOT REVISIONS
2-14-12	IDOT REVISIONS
11-26-13	SIG. BLOCK

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
PLAT OF HIGHWAYS
 F.A.U. ROUTE 187 (WASHINGTON STREET)
 SECTION. 08-00121-08-BR
 01-00121-10-WR
 JOB NO. R-91-181-12
 STA. 131+90 TO STA. 138+00
 DRAWN: TMS CHECKED: JDB
 SCALE: 1"=20' PLAT 21 OF 43

PART OF THE SW 1/4 SEC. 23, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.
 PART OF THE NW 1/4 SEC. 26, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.

SEE SHEET 21



- LEGEND**
- PROPOSED RIGHT OF WAY LINE
 - - - PROPOSED EASEMENT
 - EXISTING RIGHT OF WAY LINE
 - CENTERLINE
 - PLATTED LOT LINES
 - PROPERTY (DEED) LINE
 - APL APPARENT PROPERTY LINE
 - SECTION LINE
 - 129.324 MEASURED DIMENSION
 - 129.324 (COMP) COMPUTED DIMENSION
 - (129.324) RECORDED DIMENSION
 - + CUT CROSS FOUND OR SET
 - IRON PIPE OR IRON ROD
 - RESET PIPE OR ROD TO ORIGINAL POSITION.

- T1(B1) THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.
- T2(B2) SET 5/8 INCH IRON ROD TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T3(B3)
- T1 DENOTES TIE POINT NO. 1. SET IRON ROD FLUSH WITH GROUND SURFACE.
- (B1) DENOTES TIE POINT NO. 1. SET IRON ROD 20" BELOW GROUND SURFACE.
- DIVISION OF HIGHWAYS RIGHT OF WAY SURVEY MARKER PROPOSED TO BE SET.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ⊙ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

NOTE: COORDINATES SHOWN ARE NAD83 ILLINOIS STATE PLANE EAST ZONE

COORDINATE TABLE

STATION	OFFSET	COORDINATES
137+ 00.00 - 00.00' LT.		2,072,963.51N - 1,063,317.29E
139+ 53.03 - 00.00' LT.		2,073,067.03N - 1,063,547.98E
143+ 59.92 - 00.00' LT.		2,073,257.80N - 1,063,907.35E

STATE OF ILLINOIS)
) SS
 COUNTY OF DUPAGE)

THIS IS TO CERTIFY THAT WE, BOLLINGER LACH & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM, NUMBER 184-001129, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 21, 22, 27 AND 28, TOWNSHIP 45 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DIVISION OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT ITASCA, ILLINOIS THIS _____ DAY OF _____, 20____ A.D.

STATE OF ILLINOIS)
) SS
 COUNTY OF LAKE)

I, PAULA J. TRIGG, COUNTY ENGINEER OF THE COUNTY AFORESAID, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF FAU 187, FAU 193 & FAU 195 IN SAID COUNTY.

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ILLINOIS PROFESSIONAL LAND SURVEYOR NO.2257
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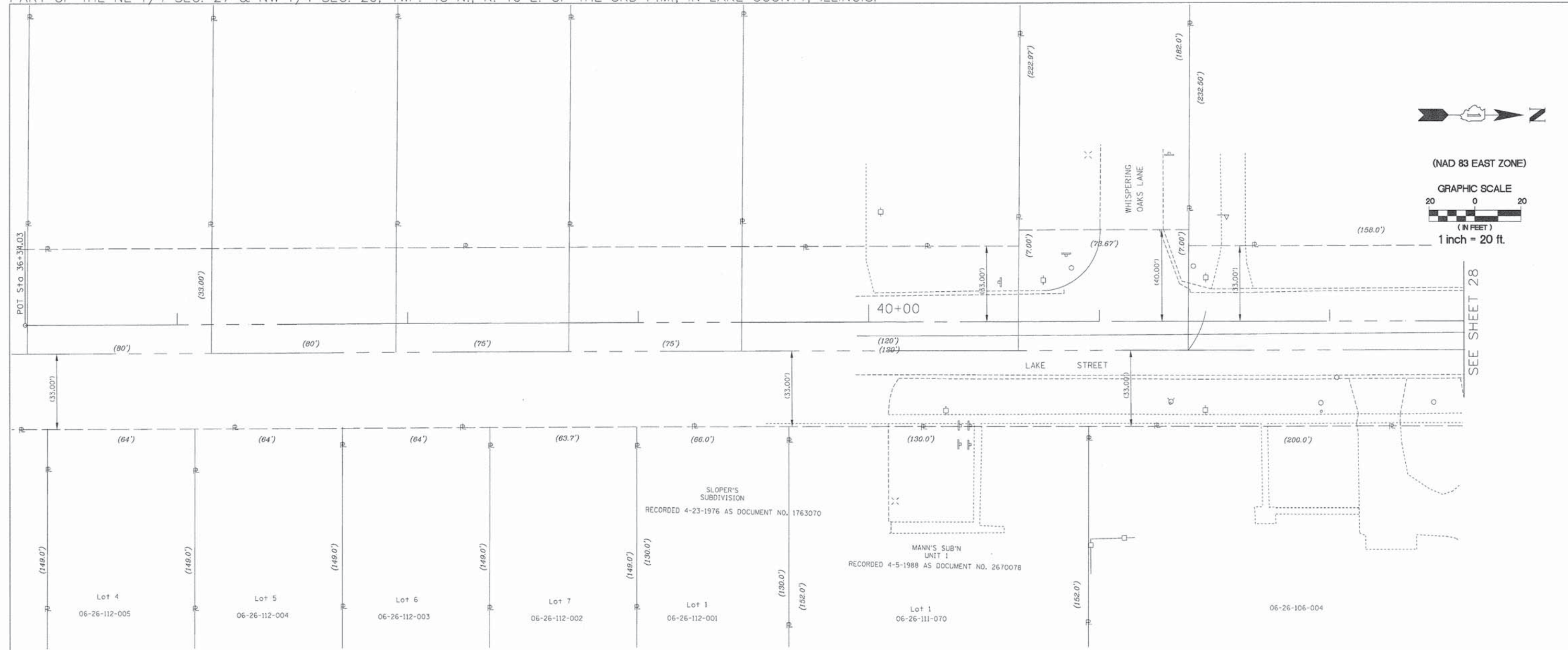
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REVISION	DATE	DESCRIPTION
	6-29-11	C'NTY REV. 6-29-11
	7-15-11	ROW REVISIONS
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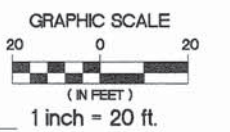
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 PLAT OF HIGHWAYS

F.A.U. ROUTE 187 (WASHINGTON STREET)
 SECTION. 08-00121-08-BR
 01-00121-10-WR
 JOB NO. R-91-181-12
 STA. 137+50 TO STA. 143+59.92
 DRAWN: TMS CHECKED: JDB
 SCALE: 1"=20' PLAT 22 OF 43

PART OF THE SE 1/4 SEC. 22 & SW 1/4 SEC. 23, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.
 PART OF THE NE 1/4 SEC. 27 & NW 1/4 SEC. 26, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.



(NAD 83 EAST ZONE)



LEGEND

- PROPOSED RIGHT OF WAY LINE
- - - PROPOSED EASEMENT
- EXISTING RIGHT OF WAY LINE
- CENTERLINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- SECTION LINE
- 129.324 MEASURED DIMENSION
- 129.324 (COMP) COMPUTED DIMENSION
- (129.324) RECORDED DIMENSION
- + CUT CROSS FOUND OR SET
- IRON PIPE OR IRON ROD
- RESET PIPE OR ROD TO ORIGINAL POSITION.

- T1(B1) THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T1 DENOTES TIE POINT NO. 1. SET IRON ROD FLUSH WITH GROUND SURFACE.
- (B1) DENOTES TIE POINT NO. 1. SET IRON ROD 20" BELOW GROUND SURFACE.
- DIVISION OF HIGHWAYS RIGHT OF WAY SURVEY MARKER PROPOSED TO BE SET.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

NOTE: COORDINATES SHOWN ARE NAD83 ILLINOIS STATE PLANE EAST ZONE

COORDINATE TABLE

STATION	OFFSET	COORDINATES
36 + 34.03	- 00.00' LT.	2,071,478.88N - 1,062,520.61E

STATE OF ILLINOIS)
) SS
 COUNTY OF LAKE)

I, PAULA J. TRIGG, COUNTY ENGINEER OF THE COUNTY AFORESAID, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF FAU 187, FAU 193 & FAU 195 IN SAID COUNTY.

DATED THIS _____ DAY OF _____, A.D., 20____.

STATE OF ILLINOIS)
) SS
 COUNTY OF DUPAGE)

THIS IS TO CERTIFY THAT WE, BOLLINGER LACH & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM, NUMBER 184-001129, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 21, 22, 27 AND 28, TOWNSHIP 45 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DIVISION OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT ATASCA, ILLINOIS THIS _____ DAY OF _____, 20____ A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO.2257
 LICENSE EXPIRATION DATE: 11/30/2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

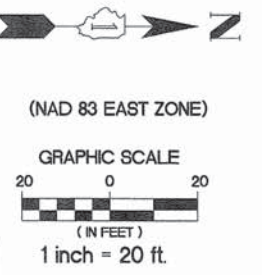
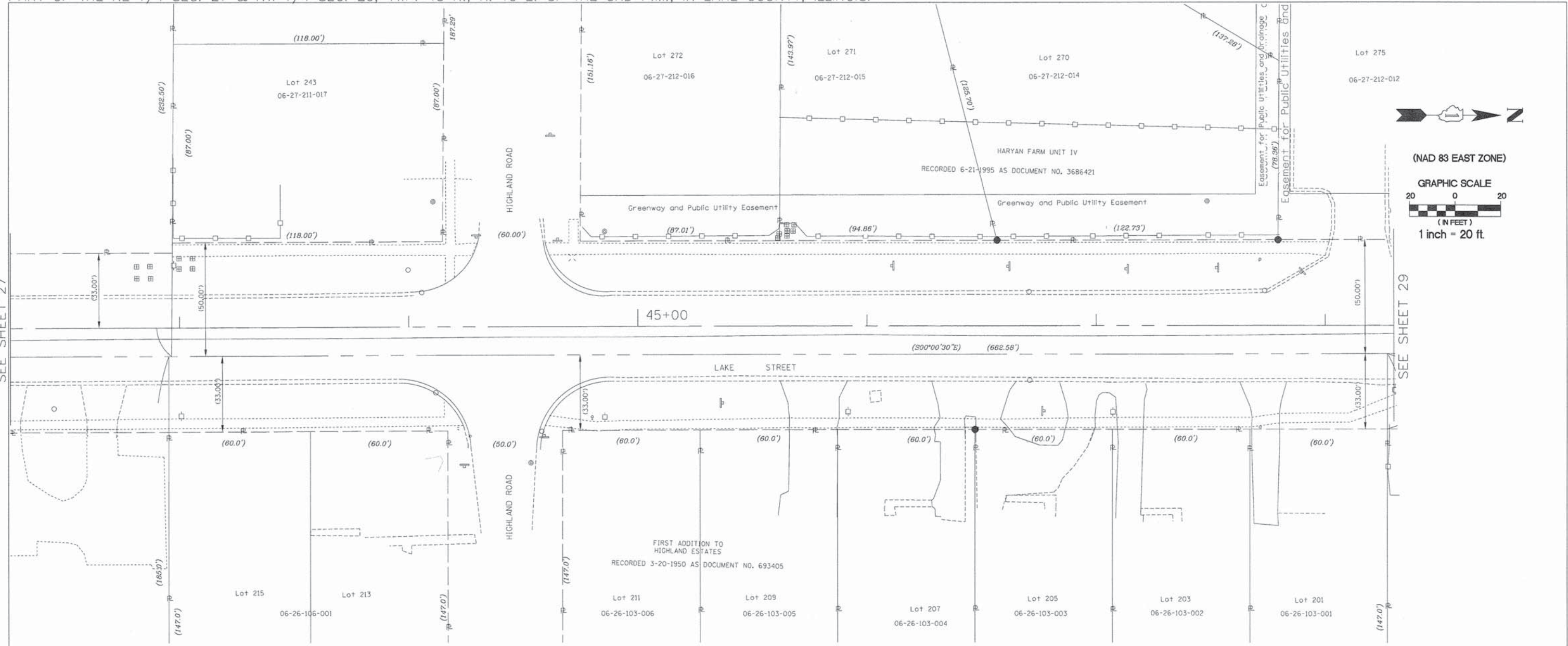
Bollinger, Lach & Associates, Inc.
 333 PIERCE ROAD, SUITE 200 - ATASCA, IL 60143
 P:(630) 438 6400 F:(630) 438 6444 www.bollingerlachs.com
 ITASCA • CHICAGO • LAKE GENEVA • SOUTH BEND • INDIANAPOLIS

DATE	DESCRIPTION
6-29-11	C'NTY REV. 6-29-11
7-15-11	ROW REVISIONS
9-14-11	COUNTY REVISIONS
10-14-11	IDOT REVISIONS
11-18-11	IDOT REVISIONS
2-03-12	IDOT REVISIONS
2-14-12	IDOT REVISIONS
11-26-13	SIG. BLOCK

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
PLAT OF HIGHWAYS
 F.A.U. ROUTE 187 (WASHINGTON STREET)
 SECTION. 08-00121-08-BR
 01-00121-10-WR
 JOB NO. R-91-181-12
 STA. 36+34.03 TO STA. 42+50
 DRAWN: TMS CHECKED: JDB
 SCALE: 1"=20' PLAT 27 OF 43

RECORDED ON: _____ AS DOCUMENT NO.: _____

PART OF THE SE 1/4 SEC. 22 & SW 1/4 SEC. 23, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.
 PART OF THE NE 1/4 SEC. 27 & NW 1/4 SEC. 26, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.



SEE SHEET 27

SEE SHEET 29

LEGEND

- PROPOSED RIGHT OF WAY LINE
- - - PROPOSED EASEMENT
- EXISTING RIGHT OF WAY LINE
- CENTERLINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- API
- APPARENT PROPERTY LINE
- SECTION LINE
- 129.324 MEASURED DIMENSION
- 129.324 (COMP) COMPUTED DIMENSION
- (129.324) RECORDED DIMENSION
- + CUT CROSS FOUND OR SET
- IRON PIPE OR IRON ROD
- RESET PIPE OR ROD TO ORIGINAL POSITION.
- T1(B1) THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.
- T2(B2) SET 5/8 INCH IRON ROD TO TIE FOUND IRON STAKE IDENTIFIED BY
- T3(B3) COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T1 DENOTES TIE POINT NO. 1. SET IRON ROD FLUSH WITH GROUND SURFACE.
- (B1) DENOTES TIE POINT NO. 1. SET IRON ROD 20" BELOW GROUND SURFACE.
- DIVISION OF HIGHWAYS RIGHT OF WAY SURVEY MARKER PROPOSED TO BE SET.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

NOTE: COORDINATES SHOWN ARE NAD83 ILLINOIS STATE PLANE EAST ZONE

STATE OF ILLINOIS)
 COUNTY OF DUPAGE)

THIS IS TO CERTIFY THAT WE, BOLLINGER LACH & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM, NUMBER 184-001129, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 21, 22, 27 AND 28, TOWNSHIP 45 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DIVISION OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT ITASCA, ILLINOIS THIS _____ DAY OF _____, 20____ A.D.

STATE OF ILLINOIS)
 COUNTY OF LAKE)

I, PAULA J. TRIGG, COUNTY ENGINEER OF THE COUNTY AFORESAID, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF FAU 187, FAU 193 & FAU 195 IN SAID COUNTY.

DATED THIS _____ DAY OF _____, A.D. 20____

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2257
 LICENSE EXPIRATION DATE: 11/30/2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Bollinger, Lach & Associates, Inc.
 333 PIERCE ROAD, SUITE 200 - ITASCA, IL 60143
 P(630) 438 6400 F(630) 438 6444 www.bollingerlach.com
 ITASCA • CHICAGO • LAKE GENEVA • SOUTH BEND • INDIANAPOLIS

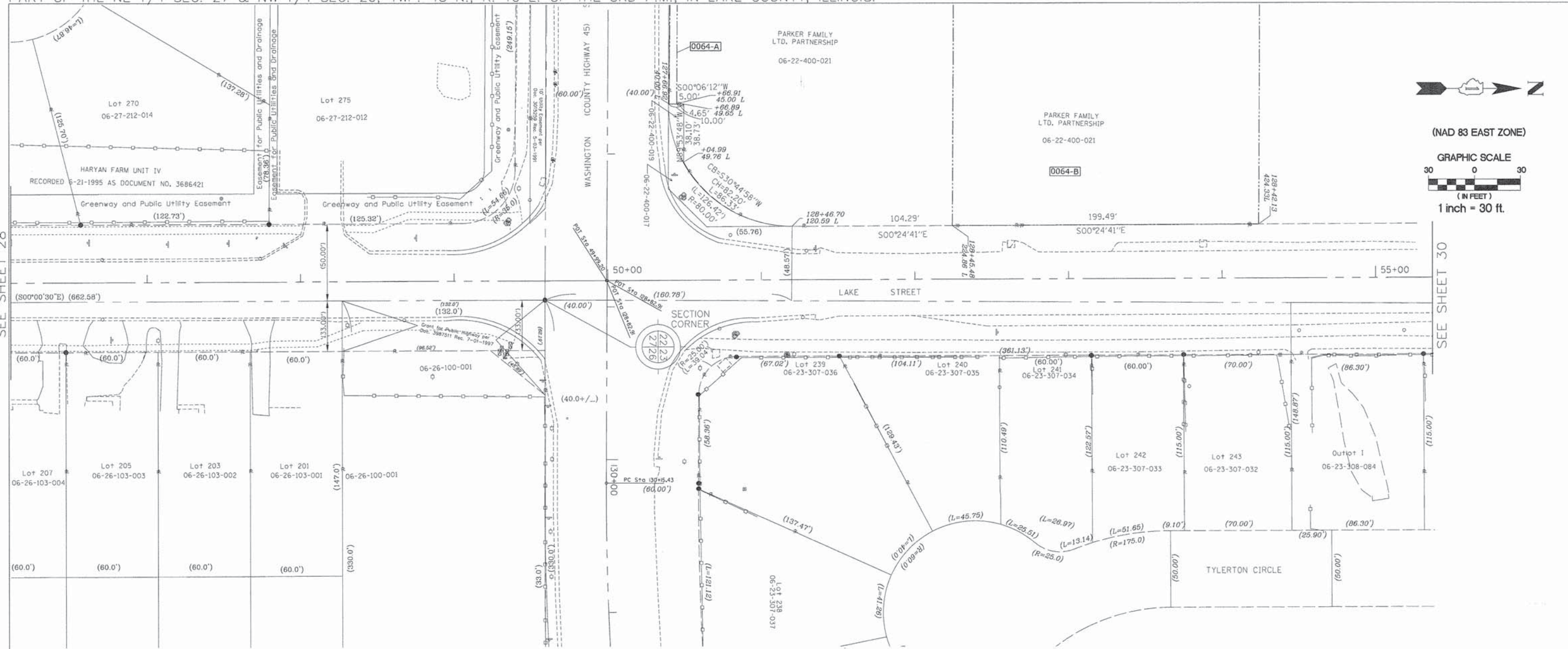
REVISION	
DATE	DESCRIPTION
6-29-11	C'NTY REV. 6-29-11
7-15-11	ROW REVISIONS
9-14-11	COUNTY REVISIONS
10-14-11	IDOT REVISIONS
11-18-11	IDOT REVISIONS
2-03-12	IDOT REVISIONS
2-14-12	IDOT REVISIONS
11-26-13	SIG. BLOCK

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 PLAT OF HIGHWAYS

F.A.U. ROUTE 187 (WASHINGTON STREET)
 SECTION. 08-00121-08-BR
 01-00121-10-WR
 JOB NO. R-91-181-12
 STA. 42+50 TO STA. 48+25
 DRAWN: TMS CHECKED: JDB
 SCALE: 1"=20' PLAT 28 OF 43

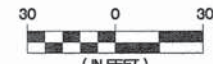
RECORDED ON: AS DOCUMENT NO.:

PART OF THE SE 1/4 SEC. 22 & SW 1/4 SEC. 23, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.
 PART OF THE NE 1/4 SEC. 27 & NW 1/4 SEC. 26, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.



(NAD 83 EAST ZONE)

GRAPHIC SCALE



(IN FEET)
1 inch = 30 ft.

SEE SHEET 28

SEE SHEET 30

LEGEND

- PROPOSED RIGHT OF WAY LINE
- - - PROPOSED EASEMENT
- EXISTING RIGHT OF WAY LINE
- CENTERLINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- SECTION LINE
- 129.324 MEASURED DIMENSION
- 129.324 (COMP) COMPUTED DIMENSION
- (129.324) CUT DIMENSION
- + REC'D CROSS FOUND OR SET
- IRON PIPE OR IRON ROD
- RESET PIPE OR ROD TO ORIGINAL POSITION.
- T1(B1) THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T1 DENOTES TIE POINT NO. 1. SET IRON ROD FLUSH WITH GROUND SURFACE.
- (B1) DENOTES TIE POINT NO. 1. SET IRON ROD 20" BELOW GROUND SURFACE.
- DIVISION OF HIGHWAYS RIGHT OF WAY SURVEY MARKER PROPOSED TO BE SET.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

NOTE: COORDINATES SHOWN ARE NAD83 ILLINOIS STATE PLANE EAST ZONE

COORDINATE TABLE		
STATION	OFFSET	COORDINATES
49 + 99.20	- 00.00'	2,072,844.03N - 1,062,514.42E
128 + 82.91	- 00.00' WEST	
44 + 93.84	- 00.00' LT.	2,072,338.68N - 1,062,516.72E

PARCEL NUMBER	OWNER	TOTAL HOLDING ACRES	PART TAKEN/USED ACRES	REMAINDER ACRES	PURPOSE	PERMANENT TAX INDEX NUMBER	ACQUIRED BY DOCUMENT
0064-A	SEE SHEET 16, 17, 18, 19 & 20						
0064-B	SEE SHEET 18, 19 & 20						

STATE OF ILLINOIS)
) SS
 COUNTY OF LAKE)

I, PAULA J. TRIGG, COUNTY ENGINEER OF THE COUNTY AFORESAID, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF FAU 187, FAU 193 & FAU 195 IN SAID COUNTY.

DATED THIS _____ DAY OF _____, A.D., 20____.

STATE OF ILLINOIS)
) SS
 COUNTY OF DUPAGE)

THIS IS TO CERTIFY THAT WE, BOLLINGER LACH & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM, NUMBER 184-001129, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 21, 22, 27 AND 28, TOWNSHIP 45 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DIVISION OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT ITASCA, ILLINOIS THIS _____ DAY OF _____, 20____.A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO.2257
 LICENSE EXPIRATION DATE: 11/30/2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

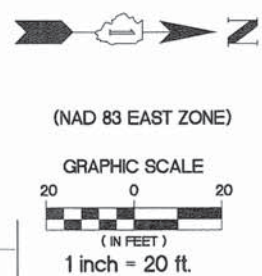
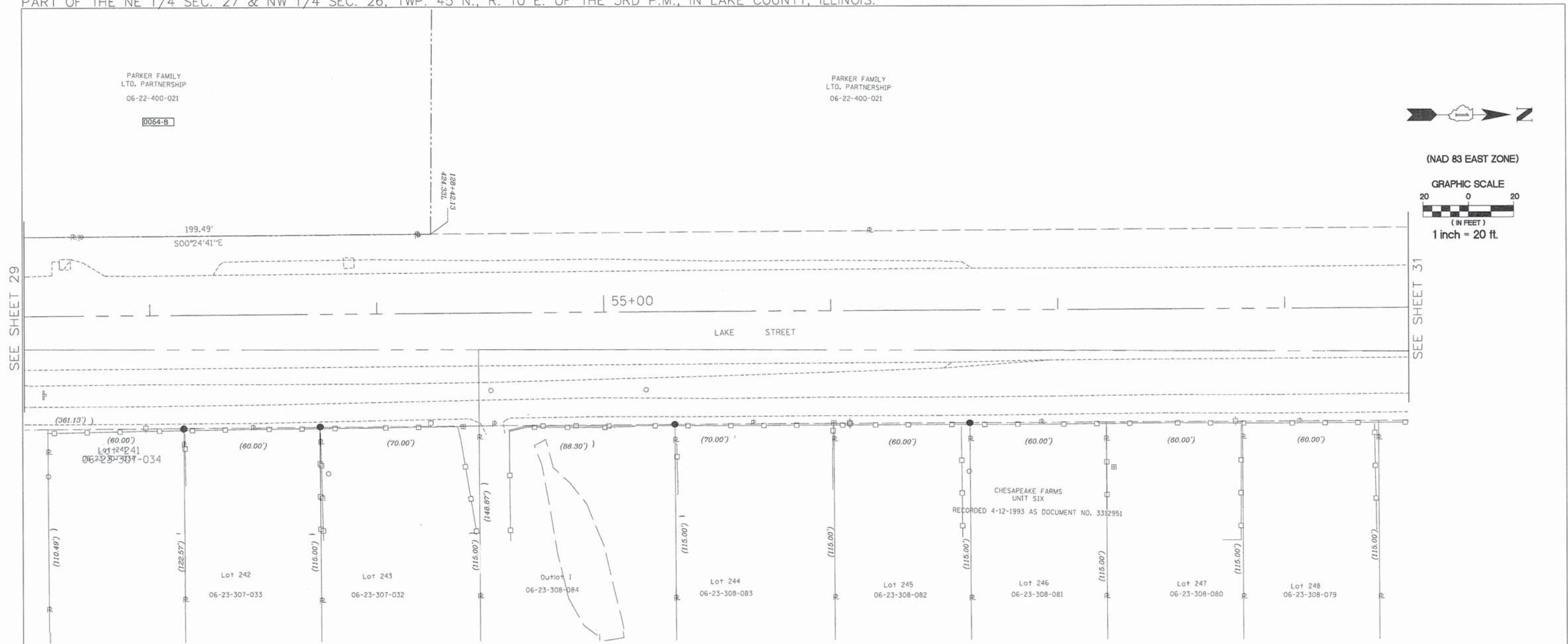
Bollinger, Lach & Associates, Inc.
 333 PIERCE ROAD, SUITE 200 - ITASCA, IL 60143
 P(630) 438 6400 F(630) 438 6444 www.bollingerlach.com
 ITASCA • CHICAGO • LAKE GENEVA • SOUTH BEND • INDIANAPOLIS

DATE	REVISION DESCRIPTION
6-29-11	C'NTY REV. 6-29-11
7-15-11	ROW REVISIONS
9-14-11	COUNTY REVISIONS
10-14-11	IDOT REVISIONS
11-18-11	IDOT REVISIONS
2-03-12	IDOT REVISIONS
2-14-12	IDOT REVISIONS
9-9-13	JAWA EASE.
11-26-13	SIG. BLOCK
4-8-14	SE-X LAKE EX. EASE.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 PLAT OF HIGHWAYS

F.A.U. ROUTE 187 (WASHINGTON STREET)
 SECTION. 08-00121-08-BR
 01-00121-10-WR
 JOB NO. R-91-181-12
 STA. 46+50 TO STA. 55+50
 DRAWN: TMS CHECKED: JDB
 SCALE: 1"=30' PLAT 29 OF 43

PART OF THE SE 1/4 SEC. 22 & SW 1/4 SEC. 23, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.
 PART OF THE NE 1/4 SEC. 27 & NW 1/4 SEC. 26, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.



SEE SHEET 29

SEE SHEET 31

PARKER FAMILY LTD. PARTNERSHIP
 06-22-400-021
 0064-B

PARKER FAMILY LTD. PARTNERSHIP
 06-22-400-021

LEGEND

- PROPOSED RIGHT OF WAY LINE
- - - PROPOSED EASEMENT
- EXISTING RIGHT OF WAY LINE
- CENTERLINE
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- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

NOTE: COORDINATES SHOWN ARE NAD83 ILLINOIS STATE PLANE EAST ZONE

STATE OF ILLINOIS)
)SS
 COUNTY OF LAKE)
 I, PAULA J. TRIGG, COUNTY ENGINEER OF THE COUNTY AFORESAID,
 DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT
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 PART OF FAU 187, FAU 193 & FAU 195 IN SAID COUNTY.
 DATED THIS _____ DAY OF _____, A.D., 20____.

STATE OF ILLINOIS)
)SS
 COUNTY OF DUPAGE)

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DATED AT ITASCA, ILLINOIS THIS _____ DAY OF _____, 20____ A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO.2257
 LICENSE EXPIRATION DATE: 11/30/2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Bollinger, Lach & Associates, Inc.
 333 PIERCE ROAD, SUITE 200 - ITASCA, IL 60143
 P(630) 438 6400 F(630) 438 6444 www.bollingerlach.com
 ITASCA • CHICAGO • LAKE GENEVA • SOUTH BEND • INDIANAPOLIS

REVISION	
DATE	DESCRIPTION
6-29-11	CNTY REV. 6-29-11
7-15-11	ROW REVISIONS
9-14-11	COUNTY REVISIONS
10-14-11	IDOT REVISIONS
11-18-11	IDOT REVISIONS
2-03-12	IDOT REVISIONS
2-14-12	IDOT REVISIONS
11-26-13	SIG. BLOCK

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 PLAT OF HIGHWAYS
 F.A.U. ROUTE 187 (WASHINGTON STREET)
 SECTION. 08-00121-08-BR
 01-00121-10-WR
 JOB NO. R-91-181-12
 STA. 52+50 TO STA. 58+50
 DRAWN: TMS CHECKED: JDB
 SCALE: 1"=20' PLAT 30 OF 43

RECORDED ON:

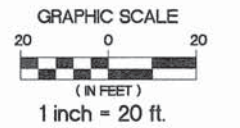
AS DOCUMENT NO.:

PART OF THE SE 1/4 SEC. 22 & SW 1/4 SEC. 23, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.
 PART OF THE NE 1/4 SEC. 27 & NW 1/4 SEC. 26, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.

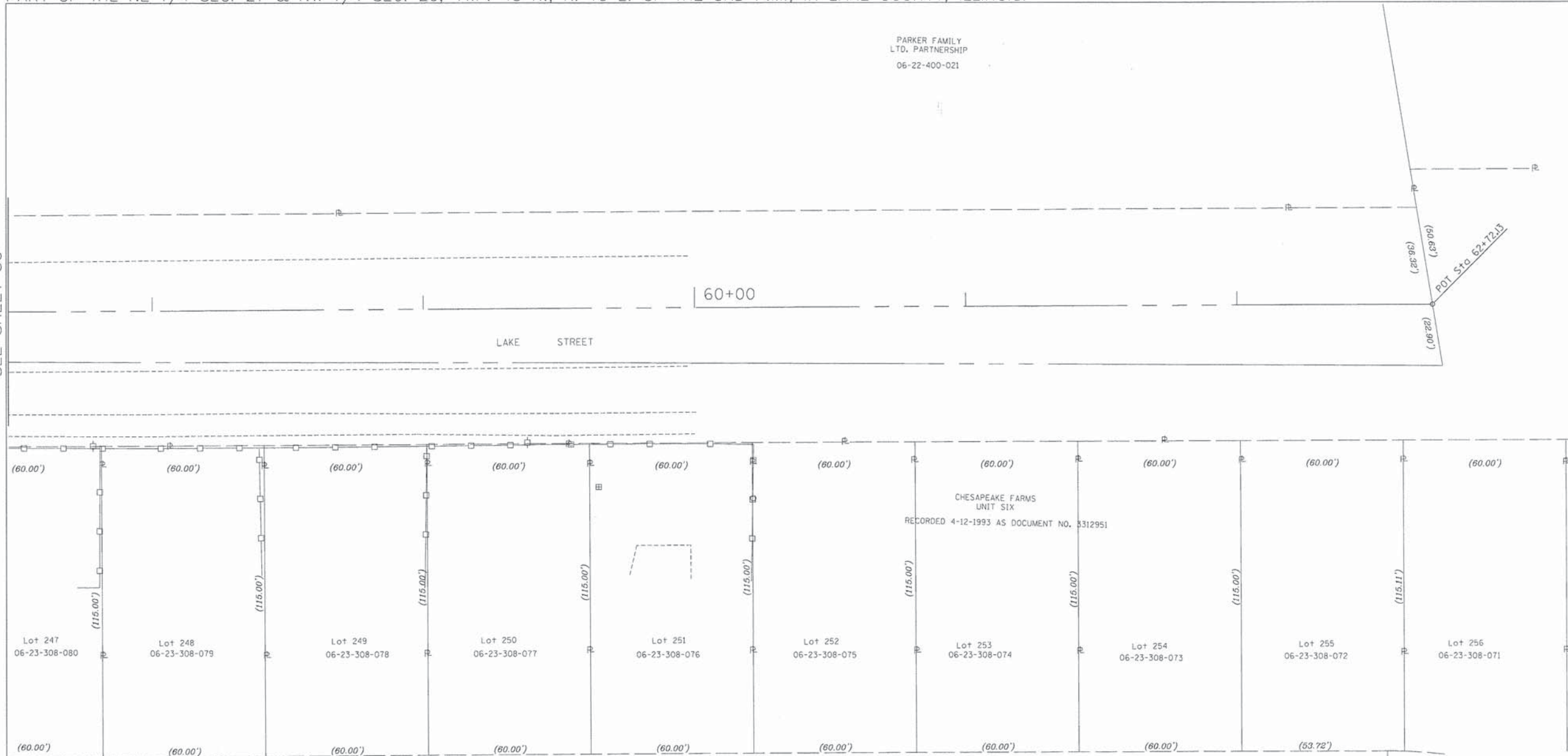
PARKER FAMILY
 LTD. PARTNERSHIP
 06-22-400-021



(NAD 83 EAST ZONE)



SEE SHEET 30



LEGEND

- PROPOSED RIGHT OF WAY LINE
- - - PROPOSED EASEMENT
- EXISTING RIGHT OF WAY LINE
- CENTERLINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
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- (129.324) RECORDED DIMENSION
- + CUT CROSS FOUND OR SET
- IRON PIPE OR IRON ROD
- RESET PIPE OR ROD TO ORIGINAL POSITION.

- T1(B1) THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.
- T2(B2) SET 5/8 INCH IRON ROD TO TIE FOUND IRON STAKE IDENTIFIED BY
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- ⊕ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

NOTE: COORDINATES SHOWN ARE NAD83 ILLINOIS STATE PLANE EAST ZONE

COORDINATE TABLE

STATION	OFFSET	COORDINATES
62 + 72.13 - 00.00' LT.		2,074,116.94N - 1,062,506.33E

STATE OF ILLINOIS)
) SS
 COUNTY OF LAKE)

I, PAULA J. TRIGG, COUNTY ENGINEER OF THE COUNTY AFORESAID, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF FAU 187, FAU 193 & FAU 195 IN SAID COUNTY.

DATED THIS _____ DAY OF _____, A.D., 20____.

STATE OF ILLINOIS)
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 COUNTY OF DUPAGE)

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DATED AT ITASCA, ILLINOIS THIS _____ DAY OF _____, 20____ A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO.2257
 LICENSE EXPIRATION DATE: 11/30/2014

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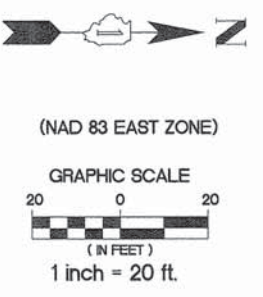
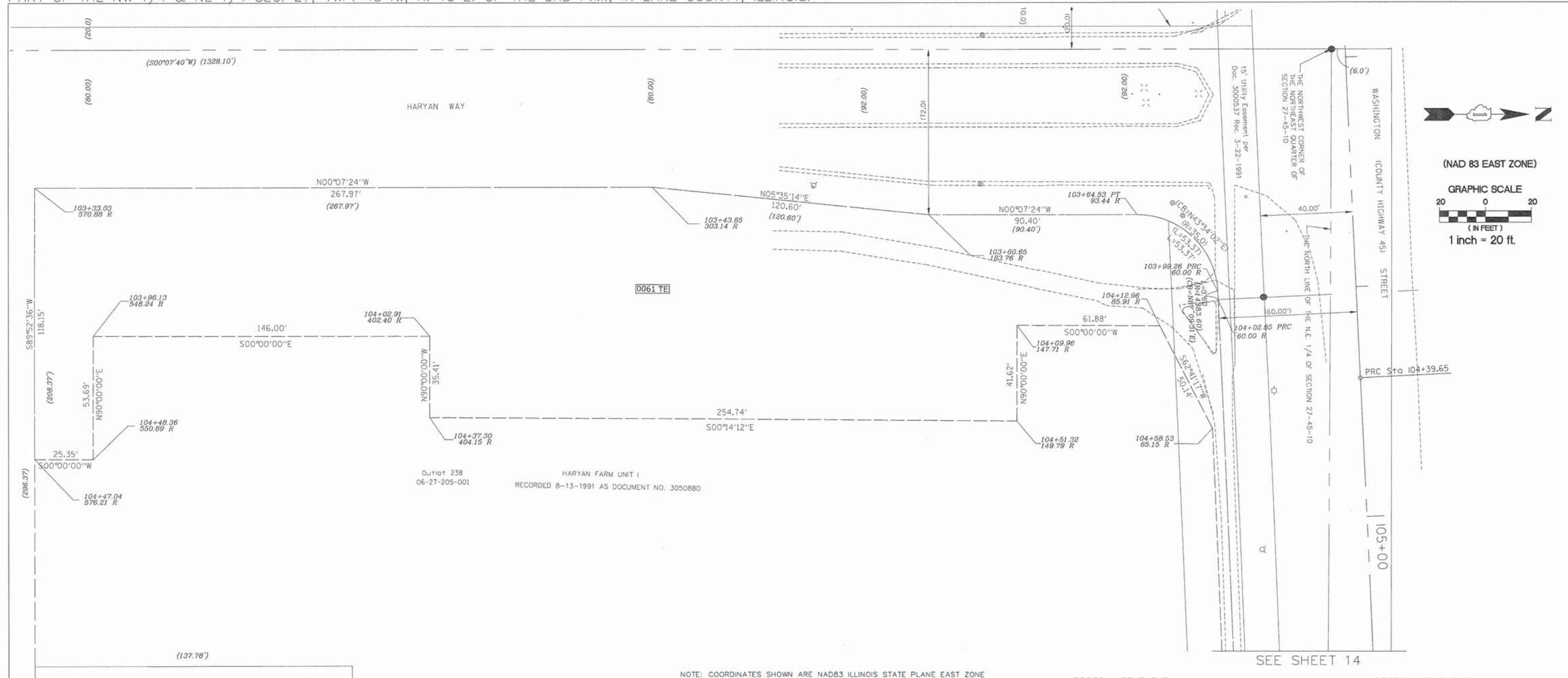
DATE	DESCRIPTION
6-29-11	C'NTY REV. 6-29-11
7-15-11	ROW REVISIONS
9-14-11	COUNTY REVISIONS
10-14-11	IDOT REVISIONS
11-18-11	IDOT REVISIONS
2-03-12	IDOT REVISIONS
2-14-12	IDOT REVISIONS
11-26-13	SIG BLOCK

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
PLAT OF HIGHWAYS
 F.A.U. ROUTE 187 (WASHINGTON STREET)
 SECTION. 08-00121-08-BR
 01-00121-10-WR
 JOB NO. R-91-181-12
 STA. 58+50 TO STA. 62+72.13
 DRAWN: TMS CHECKED: JDB
 SCALE: 1"=20' PLAT 31 OF 43

RECORDED ON:

AS DOCUMENT NO.:

PART OF THE SW 1/4 & SE 1/4 SEC. 22, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.
 PART OF THE NW 1/4 & NE 1/4 SEC. 27, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.



NOTE: COORDINATES SHOWN ARE NAD83 ILLINOIS STATE PLANE EAST ZONE

STATION	OFFSET	COORDINATES
103+ 33.03	- 570.88' RT.	2,072,252.82N - 1,059,989.80E
103+ 43.85	- 303.14' RT.	2,072,520.79N - 1,059,989.22E
103+ 60.65	- 183.76' RT.	2,072,640.82N - 1,060,000.96E
103+ 64.53	- 93.44' RT.	2,072,731.22N - 1,060,000.77E
104+ 09.96	- 147.71' RT.	2,072,679.17N - 1,060,049.09E
104+ 12.96	- 85.91' RT.	2,072,741.05N - 1,060,049.09E

STATION	OFFSET	COORDINATES
103+ 96.13	- 548.24' RT.	2,072,278.43N - 1,060,054.26E
104+ 02.91	- 402.40' RT.	2,072,424.43N - 1,060,054.26E
104+ 37.30	- 404.15' RT.	2,072,424.43N - 1,060,089.66E
104+ 51.32	- 149.79' RT.	2,072,679.17N - 1,060,090.71E
104+ 47.04	- 576.21' RT.	2,072,253.08N - 1,060,107.95E
104+ 48.36	- 550.89' RT.	2,072,278.43N - 1,060,107.95E

LEGEND

- PROPOSED RIGHT OF WAY LINE
- - - PROPOSED EASEMENT
- EXISTING RIGHT OF WAY LINE
- CENTERLINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- SECTION LINE
- 129.324 MEASURED DIMENSION
- 129.324 (COMP) COMPUTED DIMENSION
- (129.324) RECORDED DIMENSION
- + CUT CROSS FOUND OR SET
- IRON PIPE OR IRON ROD FOUND
- RESET PIPE OR ROD TO ORIGINAL POSITION.
- T1(B1) THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.
- T2(B2) SET 5/8 INCH IRON ROD TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T3(B3)
- T1 DENOTES TIE POINT NO. 1. SET IRON ROD FLUSH WITH GROUND SURFACE.
- (B1) DENOTES TIE POINT NO. 1. SET IRON ROD 20" BELOW GROUND SURFACE.
- DIVISION OF HIGHWAYS RIGHT OF WAY SURVEY MARKER PROPOSED TO BE SET.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

PARCEL NUMBER	OWNER	TOTAL HOLDING ACRES	PART TAKEN/USED ACRES	REMAINDER ACRES	PURPOSE	PERMANENT TAX INDEX NUMBER	ACQUIRED BY DOCUMENT
0061 TE	SEE SHEETS 14 & 15						

STATE OF ILLINOIS)
) SS
 COUNTY OF LAKE)
 I, PAULA J. TRIGG, COUNTY ENGINEER OF THE COUNTY AFORESAID, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF FAU 187, FAU 193 & FAU 195 IN SAID COUNTY.
 DATED THIS _____ DAY OF _____, A.D., 20____.

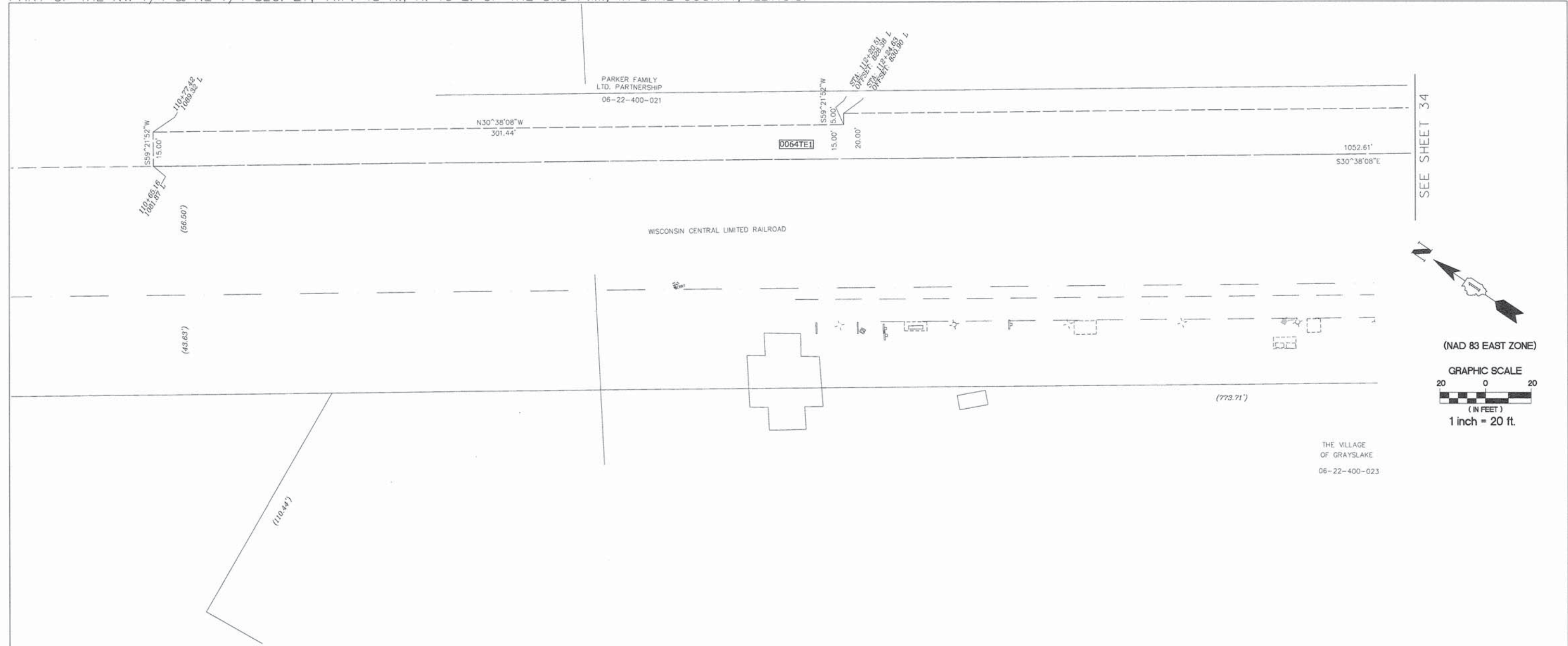
STATE OF ILLINOIS)
) SS
 COUNTY OF DUPAGE)
 THIS IS TO CERTIFY THAT WE, BOLLINGER LACH & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM, NUMBER 184-001129, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 21, 22, 27 AND 28, TOWNSHIP 45 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DIVISION OF TRANSPORTATION, STATE OF ILLINOIS.
 DATED AT ITASCA, ILLINOIS THIS _____ DAY OF _____, 20____ A.D.
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO.2257
 LICENSE EXPIRATION DATE: 11/30/2014
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

DATE	DESCRIPTION
6-29-11	C'NTY REV. 6-29-11
7-15-11	ROW REVISIONS
9-14-11	COUNTY REVISIONS
10-14-11	IDOT REVISIONS
11-18-11	IDOT REVISIONS
2-03-12	IDOT REVISIONS
2-14-12	IDOT REVISIONS
9-9-13	JAWA EASE
11-26-13	SIG. BLOCK

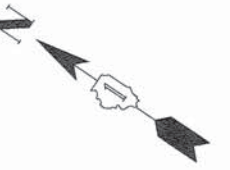
Bollinger, Lach & Associates, Inc.
 333 PIERCE ROAD, SUITE 200 - ITASCA, IL 60143
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 ITASCA • CHICAGO • LAKE GENEVA • SOUTH BEND • INDIANAPOLIS

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 PLAT OF HIGHWAYS
 F.A.U. ROUTE 187 (WASHINGTON STREET)
 SECTION. 08-00121-08-BR
 01-00121-10-WR
 JOB NO. R-91-181-12
 STA. 103+33.03 TO STA. 104+58.33
 DRAWN: TMS CHECKED: JDB
 SCALE: 1"=20' PLAT 32 OF 43

PART OF THE SW 1/4 & SE 1/4 SEC. 22, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.
 PART OF THE NW 1/4 & NE 1/4 SEC. 27, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.



SEE SHEET 34



(NAD 83 EAST ZONE)
 GRAPHIC SCALE
 20 0 20
 (IN FEET)
 1 inch = 20 ft.

LEGEND

- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- EXISTING RIGHT OF WAY LINE
- CENTERLINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- SECTION LINE
- 129.324 MEASURED DIMENSION
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- (129.324) RECORDED DIMENSION
- + CUT CROSS FOUND OR SET
- IRON PIPE OR IRON ROD
- RESET PIPE OR ROD TO ORIGINAL POSITION.
- T1(B1) THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.
- T2(B2) SET 5/8 INCH IRON ROD TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T3(B3)
- T1 DENOTES TIE POINT NO. 1. SET IRON ROD FLUSH WITH GROUND SURFACE.
- (B1) DENOTES TIE POINT NO. 1. SET IRON ROD 20" BELOW GROUND SURFACE.
- DIVISION OF HIGHWAYS RIGHT OF WAY SURVEY MARKER PROPOSED TO BE SET.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

NOTE: COORDINATES SHOWN ARE NAD83 ILLINOIS STATE PLANE EAST ZONE

COORDINATE TABLE

STATION	OFFSET	COORDINATES
110+	65.16 - 1081.87' LT.	2,073,930.55N - 1,060,680.31E
110+	77.42 - 1089.32' LT.	2,073,938.19N - 1,060,693.22E
112+	00.00 - 00.00' LT.	2,072,850.34N - 1,060,831.53E
112+	20.51 - 828.38' LT.	2,073,678.83N - 1,060,846.83E
112+	24.63 - 830.90' LT.	2,073,681.37N - 1,060,851.12E
117+	00.00 - 00.00' LT.	2,072,849.34N - 1,061,331.52E

COORDINATE TABLE

STATION	OFFSET	COORDINATES
117+	25.01 - 60.00' RT.	2,072,789.21N - 1,061,356.25E
120+	20.03 - 553.09' RT.	2,072,294.80N - 1,061,649.06E
120+	49.89 - 534.83' RT.	2,072,312.93N - 1,061,679.00E

PARCEL NUMBER	OWNER	TOTAL HOLDING ACRES	PART TAKEN/USED ACRES	REMAINDER ACRES	PURPOSE	PERMANENT TAX INDEX NUMBER	ACQUIRED BY DOCUMENT
0064 TE1	SEE SHEETS 16, 17, 18 AND 34						

STATE OF ILLINOIS)
 COUNTY OF LAKE) SS

I, PAULA J. TRIGG, COUNTY ENGINEER OF THE COUNTY AFORESAID, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF FAU 187, FAU 193 & FAU 195 IN SAID COUNTY.

DATED THIS _____ DAY OF _____, A.D., 20____.

STATE OF ILLINOIS)
 COUNTY OF DUPAGE) SS

THIS IS TO CERTIFY THAT WE, BOLLINGER LACH & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM, NUMBER 184-001129, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 21, 22, 27 AND 28, TOWNSHIP 45 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DIVISION OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT ITASCA, ILLINOIS THIS _____ DAY OF _____, 20____ A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2257
 LICENSE EXPIRATION DATE: 11/30/2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Bollinger, Lach & Associates, Inc.
 333 PIERCE ROAD, SUITE 200 - ITASCA, IL 60143
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 ITASCA • CHICAGO • LAKE GENEVA • SOUTH BEND • INDIANAPOLIS

REVISION

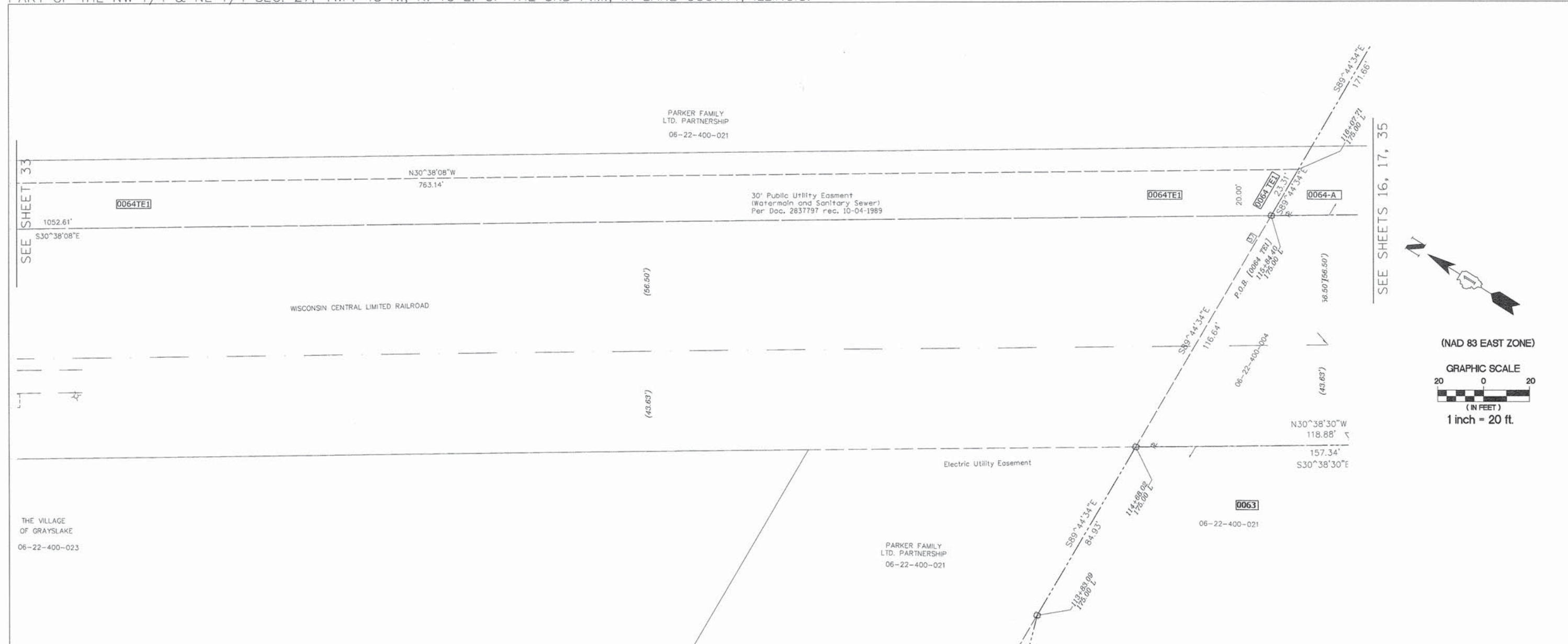
DATE	DESCRIPTION
6-29-11	C'NTY REV. 6-29-11
7-15-11	ROW REVISIONS
9-14-11	COUNTY REVISIONS
10-14-11	IDOT REVISIONS
11-18-11	IDOT REVISIONS
2-03-12	IDOT REVISIONS
2-14-12	IDOT REVISIONS
11-26-13	SIG. BLOCK

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 PLAT OF HIGHWAYS
 F.A.U. ROUTE 187 (WASHINGTON STREET)
 SECTION. 08-00121-08-BR
 01-00121-10-WR
 JOB NO. R-91-181-12
 STA. 110+65.16 TO STA. 113+00
 DRAWN: TMS CHECKED: JDB
 SCALE: 1"=20' PLAT 33 OF 43

RECORDED ON:

AS DOCUMENT NO.:

PART OF THE SW 1/4 & SE 1/4 SEC. 22, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.
 PART OF THE NW 1/4 & NE 1/4 SEC. 27, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.



(NAD 83 EAST ZONE)
 GRAPHIC SCALE
 20 0 20
 (IN FEET)
 1 inch = 20 ft.

LEGEND

- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- EXISTING RIGHT OF WAY LINE
- CENTERLINE
- PLATTED LOT LINES
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- RESET PIPE OR ROD TO ORIGINAL POSITION.
- T1(B1) THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.
- T2(B2) SET 5/8 INCH IRON ROD TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T3(B3)
- T1 DENOTES THE POINT NO. 1. SET IRON ROD FLUSH WITH GROUND SURFACE.
- (B1) DENOTES THE POINT NO. 1. SET IRON ROD 20" BELOW GROUND SURFACE.
- DIVISION OF HIGHWAYS RIGHT OF WAY SURVEY MARKER PROPOSED TO BE SET.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

NOTE: COORDINATES SHOWN ARE NAD83 ILLINOIS STATE PLANE EAST ZONE

COORDINATE TABLE

STATION	OFFSET	COORDINATES

COORDINATE TABLE

STATION	OFFSET	COORDINATES

PARCEL NUMBER	OWNER	TOTAL HOLDING ACRES	PART TAKEN/USED ACRES	REMAINDER ACRES	PURPOSE	PERMANENT TAX INDEX NUMBER	ACQUIRED BY DOCUMENT
0063	SEE SHEETS 15 & 16						
0063 TE	SEE SHEETS 15 & 16						
0064-A	SEE SHEETS 16, 17, 18, 19 & 20						
0064 TE1	SEE SHEETS 16, 17 & 33						

STATE OF ILLINOIS)
) SS
 COUNTY OF LAKE)
 I, PAULA J. TRIGG, COUNTY ENGINEER OF THE COUNTY AFORESAID, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF FAU 187, FAU 193 & FAU 195 IN SAID COUNTY.
 DATED THIS _____ DAY OF _____, A.D., 20____.

STATE OF ILLINOIS)
) SS
 COUNTY OF DUPAGE)
 THIS IS TO CERTIFY THAT WE, BOLLINGER LACH & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM, NUMBER 184-001129, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 21, 22, 27 AND 28, TOWNSHIP 45 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DIVISION OF TRANSPORTATION, STATE OF ILLINOIS.
 DATED AT ITASCA, ILLINOIS THIS _____ DAY OF _____, 20____ A.D.
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO.2257
 LICENSE EXPIRATION DATE: 11/30/2014
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

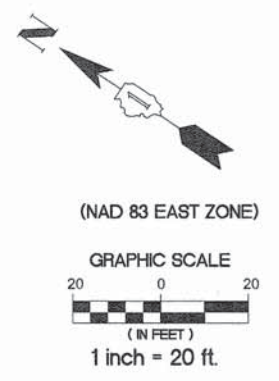
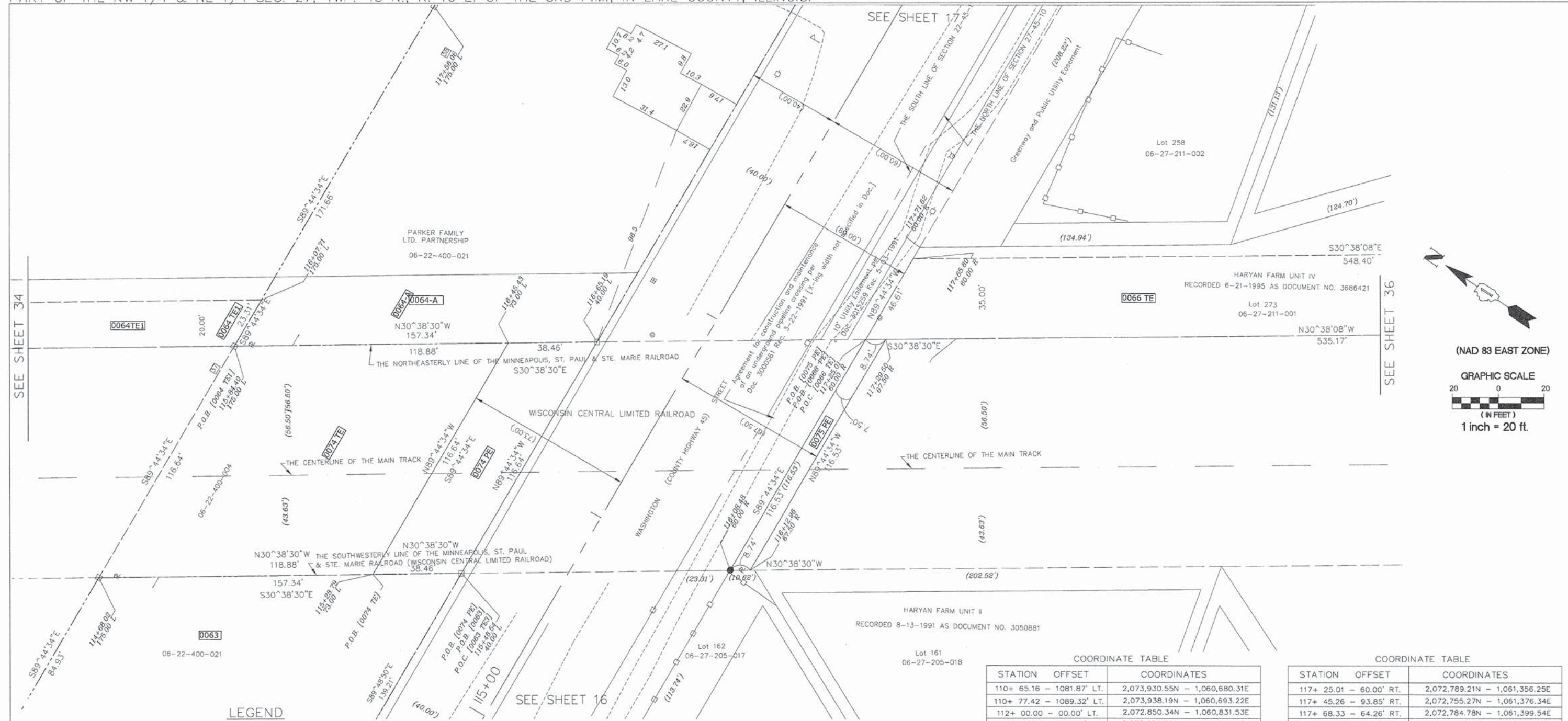
REVISION

DATE	DESCRIPTION
6-29-11	CNTY REV. 6-29-11
7-15-11	ROW REVISIONS
9-14-11	COUNTY REVISIONS
10-14-11	IDOT REVISIONS
11-18-11	IDOT REVISIONS
2-03-12	IDOT REVISIONS
2-14-12	IDOT REVISIONS
11-26-13	SIG. BLOCK

Bollinger, Lach & Associates, Inc.
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 ITASCA • CHICAGO • LAKE GENEVA • SOUTH BEND • INDIANAPOLIS

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 PLAT OF HIGHWAYS
 F.A.U. ROUTE 187 (WASHINGTON STREET)
 SECTION. 08-00121-08-BR
 01-00121-10-WR
 JOB NO. R-91-181-12
 STA. 113+00 TO STA. 115+00
 DRAWN: TMS CHECKED: JDB
 SCALE: 1"=20' PLAT 34 OF 43

PART OF THE SW 1/4 & SE 1/4 SEC. 22, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.
 PART OF THE NW 1/4 & NE 1/4 SEC. 27, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.



SEE SHEET 34

SEE SHEET 36

LEGEND

- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- EXISTING RIGHT OF WAY LINE
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- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

PARCEL NUMBER	OWNER	TOTAL HOLDING ACRES	PART TAKEN/USED ACRES	REMAINDER ACRES	PURPOSE	PERMANENT TAX INDEX NUMBER	ACQUIRED BY DOCUMENT
0083	SEE SHEETS 15 & 16						
0063 TE	SEE SHEETS 15 & 16						
0064-A	SEE SHEETS 16, 17, 18, 19 & 20						
0083	SEE SHEETS 16, 17, 18, 19 & 20						
0066 TE	SEE SHEETS 16, 17 & 36						

STATE OF ILLINOIS)
 COUNTY OF LAKE) SS
 I, PAULA J. TRIGG, COUNTY ENGINEER OF THE COUNTY AFORESAID, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF FAU 187, FAU 193 & FAU 195 IN SAID COUNTY.
 DATED THIS _____ DAY OF _____, A.D., 20____.

STATE OF ILLINOIS)
 COUNTY OF DUPAGE) SS

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DATED AT ITASCA, ILLINOIS THIS _____ DAY OF _____, 20____ A.D.
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO.2257
 LICENSE EXPIRATION DATE: 11/30/2014
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

COORDINATE TABLE

STATION	OFFSET	COORDINATES
110+	65.16 - 1081.87' LT.	2,073,930.55N - 1,060,680.31E
110+	77.42 - 1089.32' LT.	2,073,938.19N - 1,060,693.22E
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112+	20.51 - 828.38' LT.	2,073,678.83N - 1,060,846.83E
112+	24.63 - 830.90' LT.	2,073,681.37N - 1,060,851.12E
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117+	00.00 - 00.00' LT.	2,072,849.34N - 1,061,331.52E

COORDINATE TABLE

STATION	OFFSET	COORDINATES
117+	25.01 - 60.00' RT.	2,072,789.21N - 1,061,356.25E
117+	45.26 - 93.85' RT.	2,072,755.27N - 1,061,376.34E
117+	68.33 - 64.26' RT.	2,072,784.78N - 1,061,399.54E
117+	71.62 - 60.00' RT.	2,072,788.99N - 1,061,402.86E
120+	20.03 - 553.09' RT.	2,072,294.80N - 1,061,649.06E
120+	49.89 - 534.83' RT.	2,072,312.93N - 1,061,679.00E

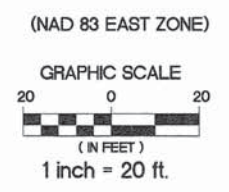
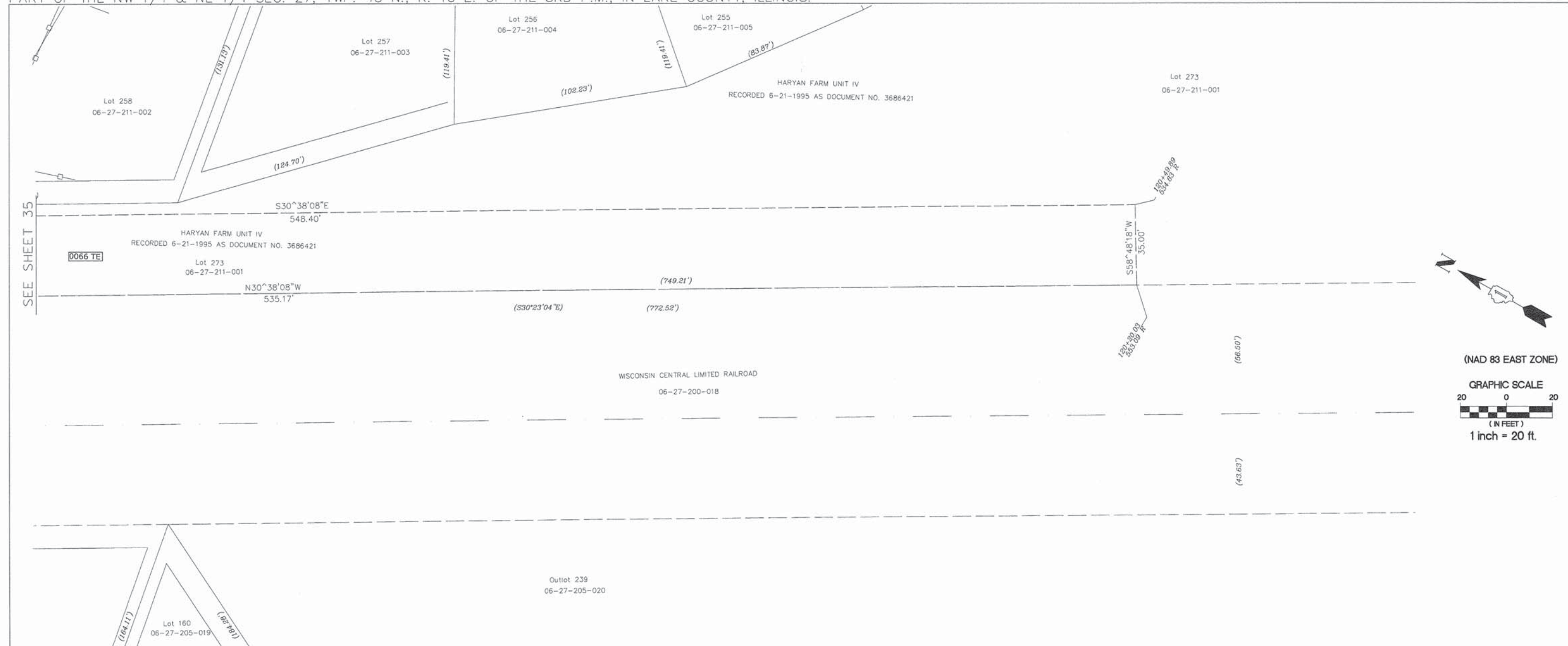
REVISION

DATE	DESCRIPTION
6-29-11	C'NTY REV. 6-29-11
7-15-11	ROW REVISIONS
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2-03-12	IDOT REVISIONS
2-14-12	IDOT REVISIONS
9-9-13	CN, JAWA EASE.
5-6-14	0066 CHG. TO 0066PE
11-26-13	SIG. BLOCK
2-27-14	66(CLI), 66TE REV

Bollinger, Lach & Associates, Inc.
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 DEPARTMENT OF TRANSPORTATION
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 JOB NO. R-91-181-12
 STA. 115+00 TO STA. 118+00
 DRAWN: TMS CHECKED: JDB
 SCALE: 1"=20' PLAT 35 OF 43

PART OF THE SW 1/4 & SE 1/4 SEC. 22, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.
 PART OF THE NW 1/4 & NE 1/4 SEC. 27, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.



- LEGEND**
- PROPOSED RIGHT OF WAY LINE
 - - - PROPOSED EASEMENT
 - EXISTING RIGHT OF WAY LINE
 - CENTERLINE
 - PLATTED LOT LINES
 - PROPERTY (DEED) LINE
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 - + CUT CROSS FOUND OR SET
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- T1(B1) THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.
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NOTE: COORDINATES SHOWN ARE NAD83 ILLINOIS STATE PLANE EAST ZONE

COORDINATE TABLE

STATION	OFFSET	COORDINATES

COORDINATE TABLE

STATION	OFFSET	COORDINATES

STATE OF ILLINOIS)
) SS
 COUNTY OF DUPAGE)

THIS IS TO CERTIFY THAT WE, BOLLINGER LACH & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM, NUMBER 184-001129, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 21, 22, 27 AND 28, TOWNSHIP 45 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DIVISION OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT ITASCA, ILLINOIS THIS _____ DAY OF _____, 20____ A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO.2257
 LICENSE EXPIRATION DATE: 11/30/2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

PARCEL NUMBER	OWNER	TOTAL HOLDING ACRES	PART TAKEN/USED ACRES	REMAINDER ACRES	PURPOSE	PERMANENT TAX INDEX NUMBER	ACQUIRED BY DOCUMENT
0066 TE	SEE SHEETS 16, 17, & 35						

STATE OF ILLINOIS)
) SS
 COUNTY OF LAKE)

I, PAULA J. TRIGG, COUNTY ENGINEER OF THE COUNTY AFORESAID, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF FAU 187, FAU 193 & FAU 195 IN SAID COUNTY.

DATED THIS _____ DAY OF _____, A.D., 20____

Bollinger, Lach & Associates, Inc.
 333 PIERCE ROAD, SUITE 200 - ITASCA, IL 60143
 P(630) 438 6400 F(630) 438 6444 www.bollingerlach.com
 ITASCA • CHICAGO • LAKE GENEVA • SOUTH BEND • INDIANAPOLIS

REVISION DATE	DESCRIPTION
6-29-11	CNTY REV. 6-29-11
7-15-11	ROW REVISIONS
9-14-11	COUNTY REVISIONS
10-14-11	IDOT REVISIONS
11-18-11	IDOT REVISIONS
2-03-12	IDOT REVISIONS
2-14-12	EASEMENT REVISIONS
11-26-13	SIG. BLOCK
2-27-14	66(CLIP),66TE REV

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 PLAT OF HIGHWAYS

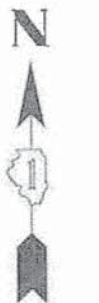
F.A.U. ROUTE 187 (WASHINGTON STREET)
 SECTION. 08-00121-08-BR
 01-00121-10-WR
 JOB NO. R-91-181-12
 STA. 118+00 TO STA. 121+00
 DRAWN: TMS CHECKED: JDB
 SCALE: 1"=20' PLAT 36 OF 43

PART OF THE SW 1/4 & SE 1/4 SECS. 21 & 22, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.
 PART OF THE NW 1/4 & NE 1/4 SECS. 27 & 28, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.

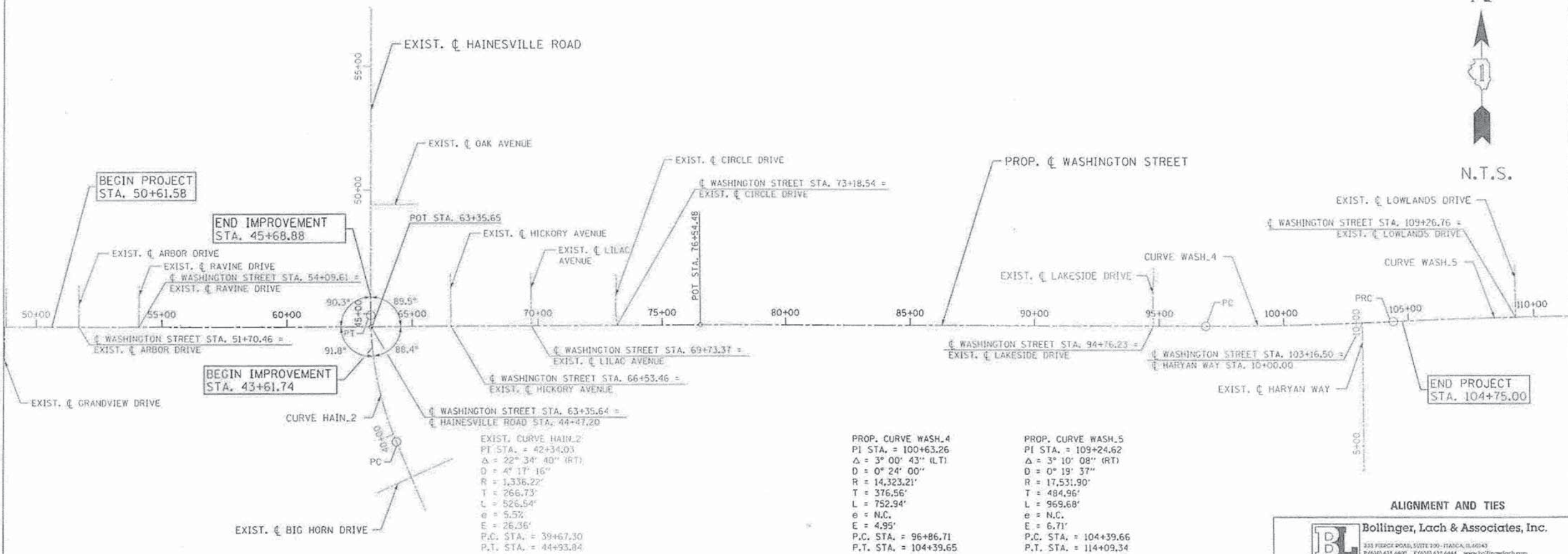
INTERSECTION COORDINATE TABLE		
STATION EQUATION	N	E
☐ WASHINGTON STREET STA. 63+35.64 = ☐ HAINESVILLE ROAD STA. 44+47.20	2072806.316	1055967.886
☐ WASHINGTON STREET STA. 103+16.50 = ☐ HARYAN WAY STA. 10+00.00	2072822.465	1059948.543

HAINESVILLE ROAD COORDINATE TABLE				
	DESCRIPTION	ALIGNMENT POINT	N	E
HAINESVILLE ROAD	CURVE HAIN.2	PC 39+67.30	2072339.615	1056068.016
		PI 42+34.03	2072586.224	1055966.382
		PT 44+93.84	2072652.955	1055967.219
	BEGIN IMPROVEMENT	43+61.74	2072721.051	1055973.329
	END IMPROVEMENT	45+68.88	2072927.991	1055967.454

WASHINGTON STREET COORDINATE TABLE				
	DESCRIPTION	ALIGNMENT POINT	N	E
WASHINGTON STREET	BEGIN PROJECT	50+61.58	2072804.687	1054693.824
		POT 63+35.65	2072806.316	1055967.894
		POT 76+54.48	2072813.295	1057286.701
CURVE WASH.4		PC 96+86.71	2072809.727	1059318.929
		PI 100+63.26	2072809.066	1059695.485
		PRC 104+39.65	2072828.191	1060071.555
CURVE WASH.5		PRC 104+39.65	2072828.191	1060071.555
		PI 109+24.62	2072852.826	1060555.902
		PT 114+09.34	2072850.648	1061040.860
	END PROJECT	104+75.00	2072829.834	1060106.870



N.T.S.



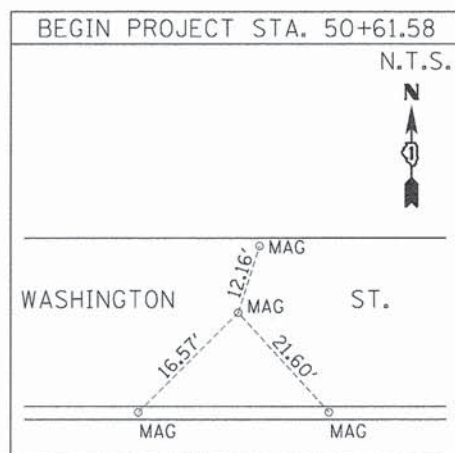
ALIGNMENT AND TIES

BL Bollinger, Lach & Associates, Inc.
 333 PIERCE ROAD, SUITE 100 - ITALICA, IL 60143
 P(630) 431 6400 F(630) 431 6444 www.bollingerlach.com

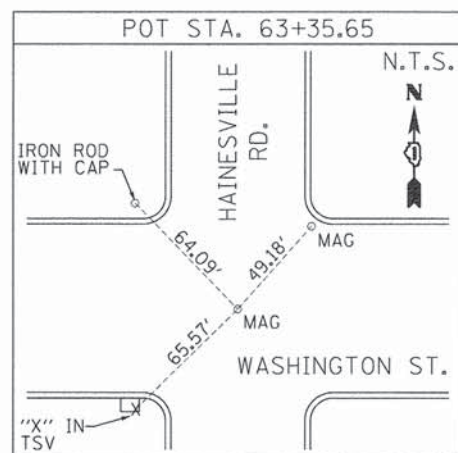
REVISION	
DATE	DESCRIPTION
6-29-11	CNTY. REV. 6-29-11
7-15-11	ROW REVISIONS
9-14-11	COUNTY REVISIONS
10-14-11	IDOT REVISIONS
11-18-11	IDOT REVISIONS
2-03-12	IDOT REVISIONS
2-14-12	IDOT REVISIONS

LAKE COUNTY DIVISION
 OF TRANSPORTATION
 PLAT OF HIGHWAYS

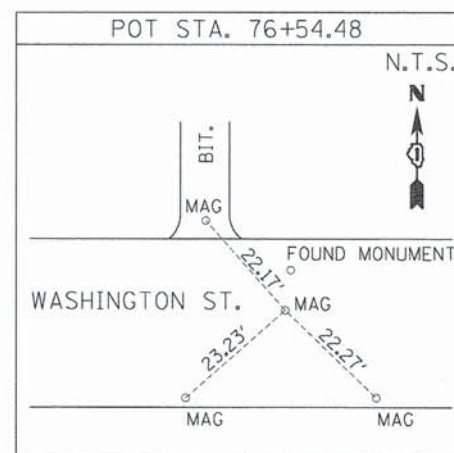
F.A.U. ROUTE 187 (WASHINGTON STREET)
 SECTION
 JOB NO. R-91-007-12
 STA. 50+61.58 TO STA. 110+00.00
 DRAWN: TMS CHECKED: JDB
 SCALE: N.T.S. PLAT 37 OF 43



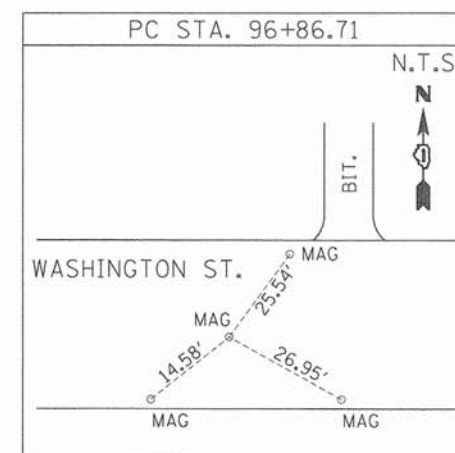
STA. 50+61.58
 N. 2072804.69
 E. 1054693.82



STA. 63+35.65
 N. 2072806.32
 E. 1055967.89



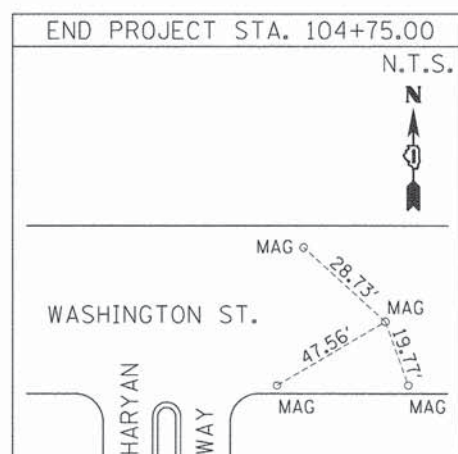
STA. 76+54.48
 N. 2072813.30
 E. 1057286.70



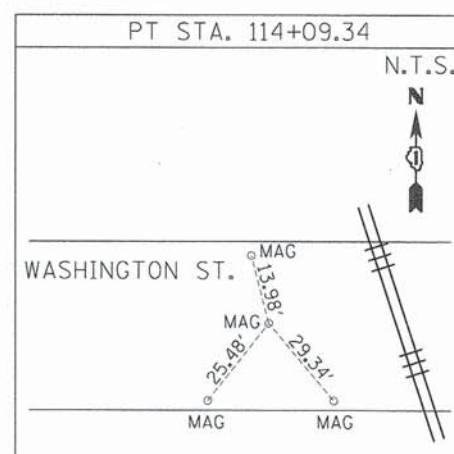
STA. 96+86.71
 N. 2072809.72
 E. 105318.93



STA. 104+39.65
 N. 2072828.20
 E. 1060071.56



STA. 104+75.00
 N. 2072829.93
 E. 1060106.87



STA. 114+09.34
 N. 2072850.65
 E. 1061040.86

ALIGNMENT AND TIES

Bollinger, Lach & Associates, Inc.
 333 PIERCE ROAD, SUITE 200 - ITASCA, IL 60143
 P.(630) 438-6400 F.(630) 438-6444 www.bollingerlach.com

REVISION	
DATE	DESCRIPTION
6-29-11	C'NTY REV. 6-29-11
7-15-11	ROW REVISIONS
9-14-11	COUNTY REVISIONS
10-14-11	IDOT REVISIONS
11-18-11	IDOT REVISIONS
2-03-12	IDOT REVISIONS
2-14-12	IDOT REVISIONS

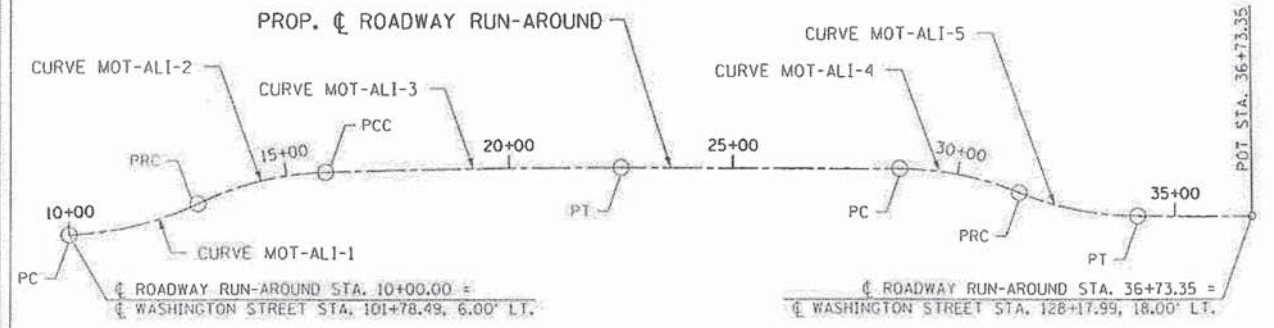
LAKE COUNTY DIVISION
 OF TRANSPORTATION
 PLAT OF HIGHWAYS

F.A.U. ROUTE 187 (WASHINGTON STREET)
 SECTION
 JOB NO. R-91-007-12
 STA. 50+61.58 TO STA. 114+09.34
 DRAWN: TMS CHECKED: JDB
 SCALE: N.T.S. PLAT 38 OF 43

RECORDED ON:

AS DOCUMENT NO.:

PART OF THE SW 1/4 & SE 1/4 SEC. 22, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.
 PART OF THE NW 1/4 & NE 1/4 SEC. 27, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.

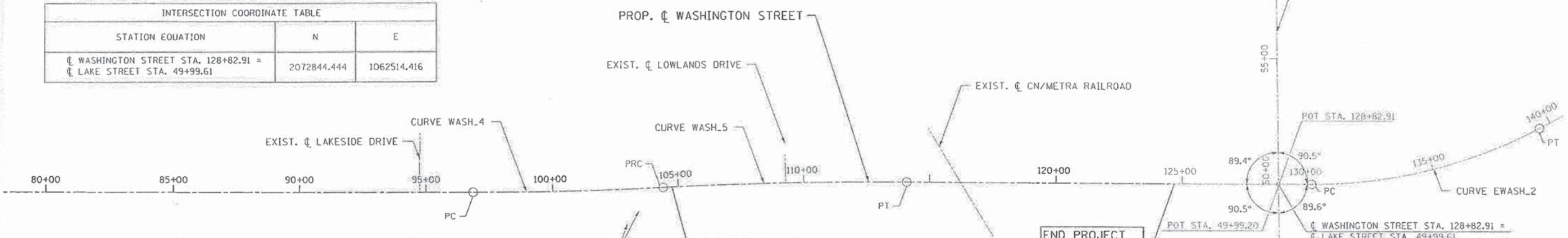


PROP. CURVE MOT-ALI-1	PROP. CURVE MOT-ALI-2	PROP. CURVE MOT-ALI-3	PROP. CURVE MOT-ALI-4	PROP. CURVE MOT-ALI-5
PI STA. = 11+49.17	PI STA. = 14+43.10	PI STA. = 19+19.83	PI STA. = 30+09.63	PI STA. = 32+81.31
$\Delta = 23^\circ 34' 09''$ (LT)	$\Delta = 23^\circ 32' 19''$ (RT)	$\Delta = 2^\circ 09' 17''$ (RT)	$\Delta = 21^\circ 46' 17''$ (RT)	$\Delta = 21^\circ 46' 17''$ (LT)
D = 8° 00' 48"	D = 8° 00' 48"	D = 0° 19' 29"	D = 8° 00' 48"	D = 8° 00' 48"
R = 715.00'	R = 715.00'	R = 17,651.90'	R = 715.00'	R = 715.00'
T = 149.17'	T = 148.97'	T = 331.96'	T = 137.50'	T = 137.50'
L = 294.12'	L = 293.74'	L = 663.85'	L = 271.69'	L = 271.69'
E = 15.40'	E = 15.35'	E = 3.12'	E = 13.10'	E = 13.10'
e = N.C.	e = N.C.	e = N.C.	e = N.C.	e = N.C.
P.C. STA. = 10+00.00	P.C. STA. = 12+94.12	P.C. STA. = 15+87.86	P.C. STA. = 28+72.12	P.C. STA. = 31+43.81
P.T. STA. = 12+94.12	P.T. STA. = 15+87.86	P.T. STA. = 22+51.71	P.T. STA. = 31+43.81	P.T. STA. = 34+15.50

DESCRIPTION	ALIGNMENT POINT	N	E
CURVE MOT-ALI-1	PC 10+00.00	2072823.302	1059810.433
	PI 11+49.17	2072828.161	1059959.526
	PRC 12+94.12	2072892.231	1060094.237
CURVE MOT-ALI-2	PC 14+43.10	2072956.214	1060228.768
	PCC 15+87.86	2072961.146	1060377.658
	PT 22+51.71	2072970.647	1061041.399
CURVE MOT-ALI-3	PC 28+72.12	2072967.860	1061661.805
	PRC 31+43.81	2072915.669	1061926.770
	PT 34+15.50	2072863.479	1062191.734
CURVE MOT-ALI-4	PC 30+09.63	2072967.242	1061799.305
	PRC 31+43.81	2072915.669	1061926.770
	POT 36+73.35	2072862.320	1062449.585

ALIGNMENT POINT	N	E
POT 36+34.03	2071478.880	1062520.613
POT 49+99.20	2072844.039	1062514.431
POT 62+72.13	2074116.944	1062506.331

STATION EQUATION	N	E
☐ WASHINGTON STREET STA. 128+82.91 = ☐ LAKE STREET STA. 49+99.61	2072844.444	1062514.416



ALIGNMENT POINT	N	E	
CURVE WASH_4	PC 96+86.71	2072809.727	1059318.929
	PI 100+63.26	2072809.066	1059695.485
	PRC 104+39.65	2072828.191	1060071.555
CURVE WASH_5	PC 104+39.65	2072828.191	1060071.555
	PI 109+24.62	2072852.826	1060555.902
	PT 114+09.34	2072850.648	1061040.860
BEGIN PROJECT	104+75.00	2072829.834	1060106.870
END PROJECT	124+69.47	2072845.886	1062100.984
CURVE EWASH_2	PC 130+15.43	2072844.064	1062646.931
	PI 134+93.88	2072842.690	1063125.379
	PT 139+53.03	2073067.027	1063547.976

PROP. CURVE WASH_4	PROP. CURVE WASH_5
PI STA. = 100+63.26	PI STA. = 109+24.62
$\Delta = 3^\circ 00' 43''$ (LT)	$\Delta = 3^\circ 10' 08''$ (RT)
D = 0° 24' 00"	D = 0° 19' 37"
R = 14,323.21'	R = 17,531.90'
T = 376.56'	T = 484.96'
L = 752.94'	L = 969.68'
e = N.C.	e = N.C.
E = 4.95'	E = 6.71'
P.C. STA. = 96+86.71	P.C. STA. = 104+39.66
P.T. STA. = 104+39.65	P.T. STA. = 114+09.34

EXIST. CURVE EWASH_2
PI STA. = 134+93.88
$\Delta = 28^\circ 07' 34''$ (LT)
D = 2° 59' 59"
R = 1,910.00'
T = 478.45'
L = 937.61'
e = N.C.
E = 59.01'
P.C. STA. = 130+15.43
P.T. STA. = 139+53.03

END PROJECT
STA. 124+69.47

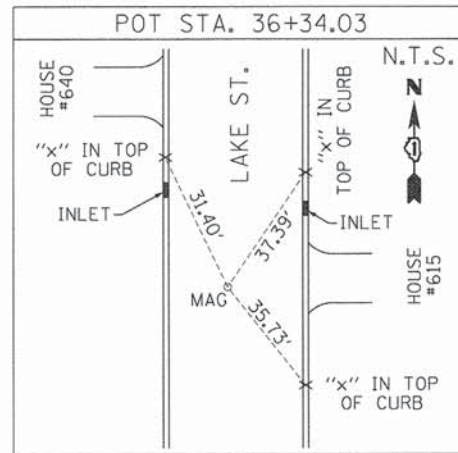
BEGIN PROJECT
STA. 104+75.00

BL Bollinger, Lach & Associates, Inc.
 333 PIEDMONT ROAD, SUITE 200 - ITASCA, IL 60143
 P: (630) 438-6400 F: (630) 438-6444 WWW.BOLLINGERLACH.COM

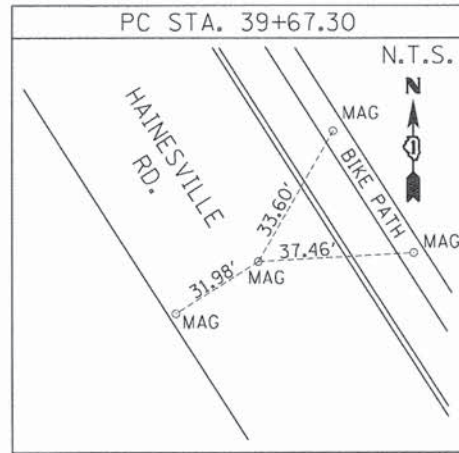
DATE	DESCRIPTION
6-29-11	CNTY REV. 6-29-11
7-15-11	ROW REVISIONS
9-14-11	COUNTY REVISIONS
10-14-11	IDOT REVISIONS
11-18-11	IDOT REVISIONS
2-03-12	IDOT REVISIONS
2-14-12	IDOT REVISIONS

LAKE COUNTY DIVISION
 OF TRANSPORTATION
 PLAT OF HIGHWAYS

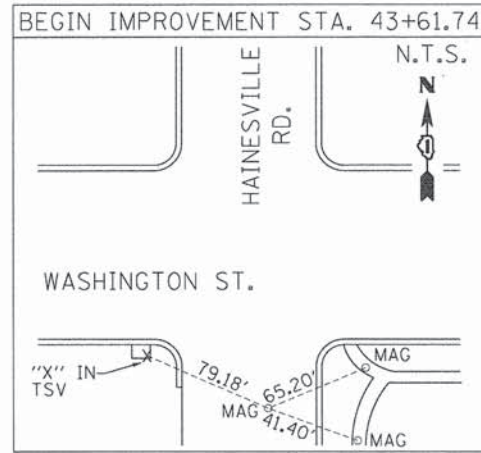
F.A.U. ROUTE 187 (WASHINGTON STREET)
 SECTION
 JOB NO. R-91-007-12
 STA. 80+00.00 TO STA. 124+69.47
 DRAWN: TMS CHECKED: JDB
 SCALE: N.T.S. PLAT 39 OF 43



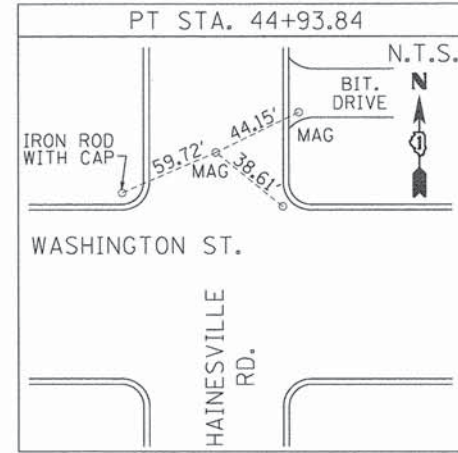
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 N. 2071478.88
 E. 1062520.61



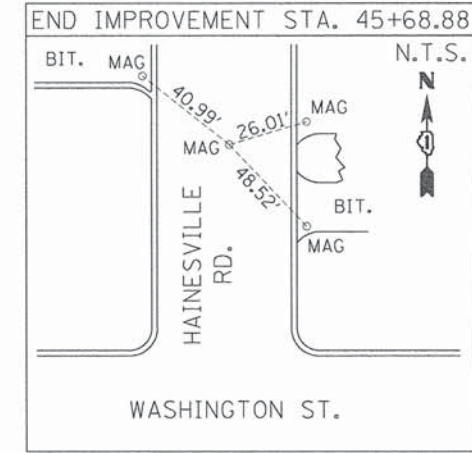
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 N. 2072339.62
 E. 1056068.02



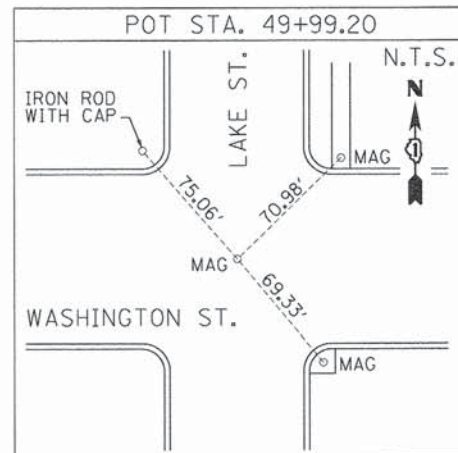
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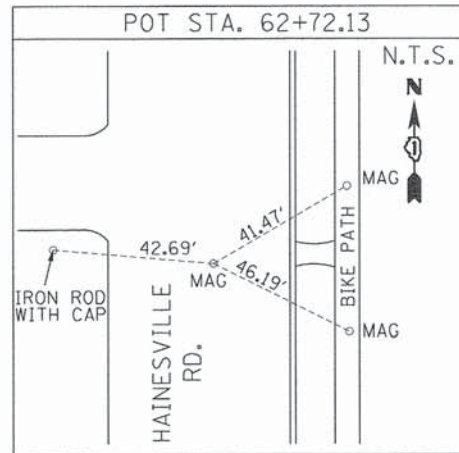
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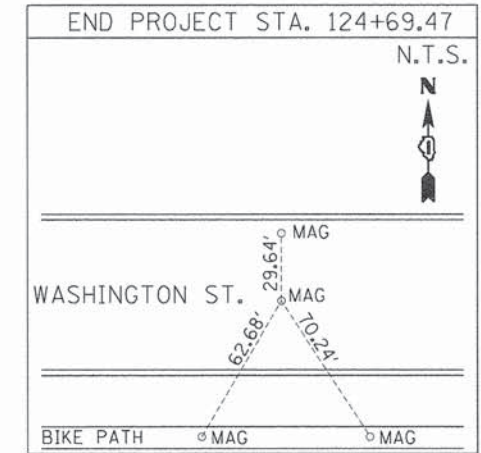
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 N. 2072927.99
 E. 1055967.45



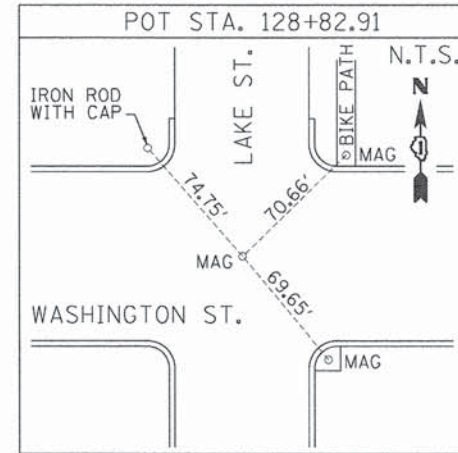
STA. 49+99.20
 N. 2072844.04
 E. 1062514.43



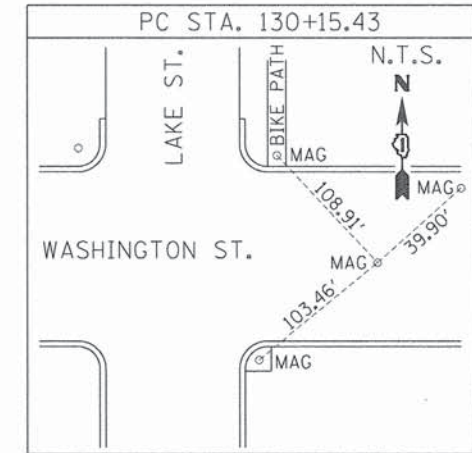
STA. 62+72.13
 N. 2074116.94
 E. 1062506.33



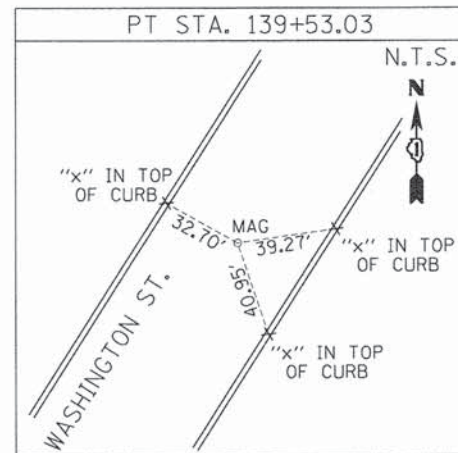
STA. 124+69.47
 N. 2072850.65
 E. 1061040.86



STA. 128+82.91
 N. 2072844.44
 E. 1062514.42



STA. 130+15.43
 N. 2072844.06
 E. 1062646.93



STA. 139+53.03
 N. 2073067.03
 E. 1063547.98

ALIGNMENT AND TIES

Bollinger, Lach & Associates, Inc.
 333 PIERCE ROAD, SUITE 200 - ITASCA, IL 60143
 P:(630) 438 6400 F:(630) 438 6444 www.bollingerlach.com

REVISION	
DATE	DESCRIPTION
6-29-11	C'NTY REV. 6-29-11
7-15-11	ROW REVISIONS
9-14-11	COUNTY REVISIONS
10-14-11	IDOT REVISIONS
11-18-11	IDOT REVISIONS
2-03-12	IDOT REVISIONS
2-14-12	IDOT REVISIONS

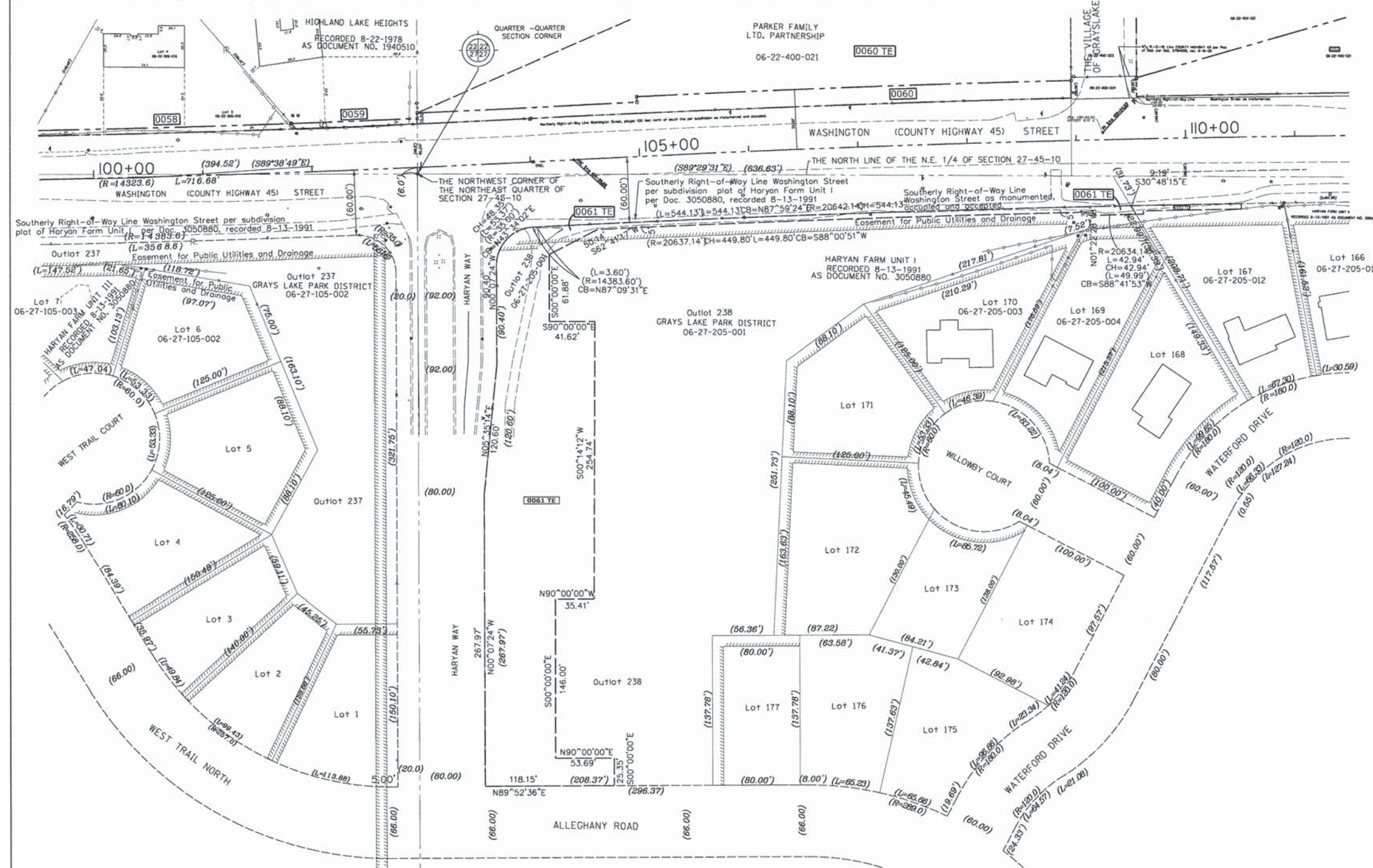
LAKE COUNTY DIVISION
 OF TRANSPORTATION
 PLAT OF HIGHWAYS

F.A.U. ROUTE 187 (WASHINGTON STREET)
 SECTION
 JOB NO. R-91-007-12
 STA. 36+34.03 TO STA. 139+53.03
 DRAWN: TMS CHECKED: JDB
 SCALE: N.T.S. PLAT 40 OF 43

RECORDED ON:

AS DOCUMENT NO.:

PART OF THE SW 1/4 & SE 1/4 SEC. 22, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.
 PART OF THE NW 1/4 & NE 1/4 SEC. 27, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.



LEGEND

- PROPOSED RIGHT OF WAY LINE
- - - PROPOSED EASEMENT
- EXISTING RIGHT OF WAY LINE
- CENTERLINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- SECTION LINE
- 129.324 MEASURED DIMENSION
- 129.324 (COMP) COMPUTED DIMENSION
- (129.324) RECORDED DIMENSION
- + CUT CROSS FOUND OR SET
- IRON PIPE OR IRON ROD
- RESET PIPE OR ROD TO ORIGINAL POSITION.
- T1(B1) THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.
- T2(B2) SET 5/8 INCH IRON ROD TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T3(B3)
- T1 DENOTES TIE POINT NO. 1. SET IRON ROD FLUSH WITH GROUND SURFACE.
- (B1) DENOTES TIE POINT NO. 1. SET IRON ROD 20" BELOW GROUND SURFACE.
- DIVISION OF HIGHWAYS RIGHT OF WAY SURVEY MARKER PROPOSED TO BE SET.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

NOTE: COORDINATES SHOWN ARE NAD83 ILLINOIS STATE PLANE EAST ZONE

STATE OF ILLINOIS)
) SS
 COUNTY OF DUPAGE)

THIS IS TO CERTIFY THAT WE, BOLLINGER LACH & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM, NUMBER 184-001129, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 21, 22, 27 AND 28, TOWNSHIP 45 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DIVISION OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT ITASCA, ILLINOIS THIS _____ DAY OF _____, 20____ A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO.2257
 LICENSE EXPIRATION DATE: 11/30/2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

STATE OF ILLINOIS)
) SS
 COUNTY OF LAKE)
 I, PAULA J. TRIGG, COUNTY ENGINEER OF THE COUNTY AFORESAID, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF FAU 187, FAU 193 & FAU 195 IN SAID COUNTY.
 DATED THIS _____ DAY OF _____, A.D., 20____

TOTAL HOLDINGS PARCELS 0061 TE

Bollinger, Lach & Associates, Inc.
 333 PIERCE ROAD, SUITE 200 - ITASCA, IL 60143
 P(630) 438 6400 F(630) 438 6444 www.bollingerlach.com

REVISION	
DATE	DESCRIPTION
6-29-11	C'NTY REV. 6-29-11
7-15-11	ROW REVISIONS
9-14-11	COUNTY REVISIONS
10-14-11	IDOT REVISIONS
11-18-11	IDOT REVISIONS
2-03-12	IDOT REVISIONS
2-14-12	IDOT REVISIONS
9-9-13	JAWA EASE.
11-26-13	SIG. BLOCK

LAKE COUNTY DIVISION OF TRANSPORTATION PLAT OF HIGHWAYS

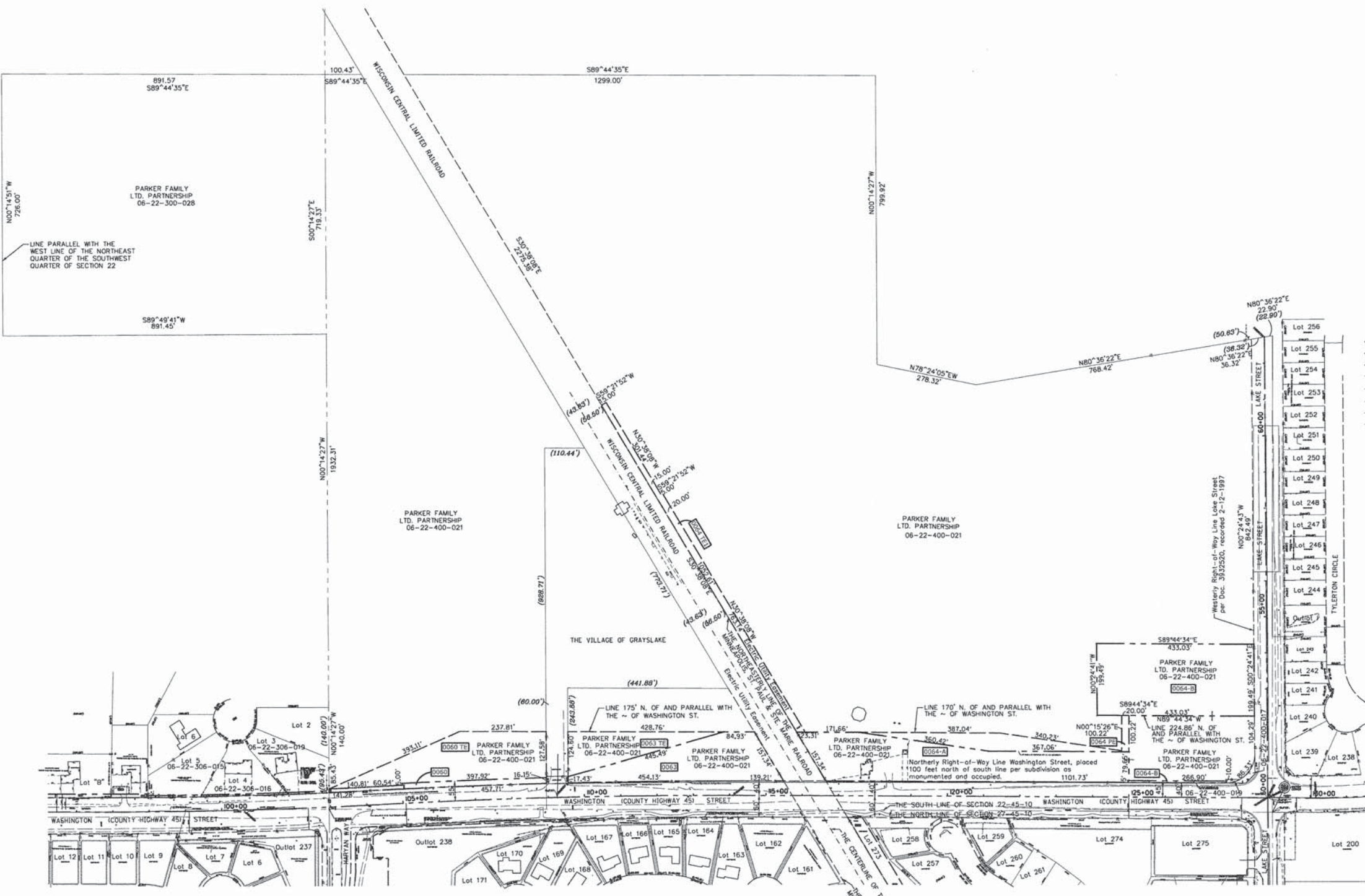
F.A.U. ROUTE 187 (WASHINGTON STREET)
 SECTION
 JOB NO. R-91-007-12
 STA. 99+50 TO STA. 111+50
 DRAWN: TMS CHECKED: JDB
 SCALE: 1"=50' PLAT 42 OF 43

RECORDED ON: AS DOCUMENT NO.:

PART OF THE SW 1/4 & SE 1/4 SEC. 22, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.
 PART OF THE NW 1/4 & NE 1/4 SEC. 27, TWP. 45 N., R. 10 E. OF THE 3RD P.M., IN LAKE COUNTY, ILLINOIS.



(NAD 83 EAST ZONE)
GRAPHIC SCALE
 150 0 150
 (IN FEET)
 1 inch = 150 ft



LEGEND

- PROPOSED RIGHT OF WAY LINE
- - - PROPOSED EASEMENT
- EXISTING RIGHT OF WAY LINE
- CENTERLINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- SECTION LINE
- MEASURED DIMENSION
- 129.324 (129.324) COMPUTED DIMENSION
- (129.324) RECORDED DIMENSION
- + CUT CROSS FOUND OR SET
- IRON PIPE OR IRON ROD
- RESET PIPE OR ROD TO ORIGINAL POSITION.
- T1(B1) THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.
- T2(B2) SET 5/8 INCH IRON ROD TO THE FOUND IRON STAKE IDENTIFIED BY
- T3(B.3) COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T1 DENOTES TIE POINT NO. 1. SET IRON ROD FLUSH WITH GROUND SURFACE.
- (B1) DENOTES TIE POINT NO. 1. SET IRON ROD 20" BELOW GROUND SURFACE.
- DIVISION OF HIGHWAYS RIGHT OF WAY SURVEY MARKER PROPOSED TO BE SET.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ⊕ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

NOTE: COORDINATES SHOWN ARE NAD83 ILLINOIS STATE PLANE EAST ZONE

TOTAL HOLDINGS PARCELS: 0060
 0060 TE
 0063
 0063 TE
 0064-A
 0064-B
 0064-PE
 0064-TE 1
 0064-TE 2

STATE OF ILLINOIS)
)SS
 COUNTY OF DUPAGE)

THIS IS TO CERTIFY THAT WE, BOLLINGER LACH & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM, NUMBER 184-001129, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 21, 22, 27 AND 28, TOWNSHIP 45 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DIVISION OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT ITASCA, ILLINOIS THIS _____ DAY OF _____, 20____ A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO.2257
 LICENSE EXPIRATION DATE: 11/30/2014

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

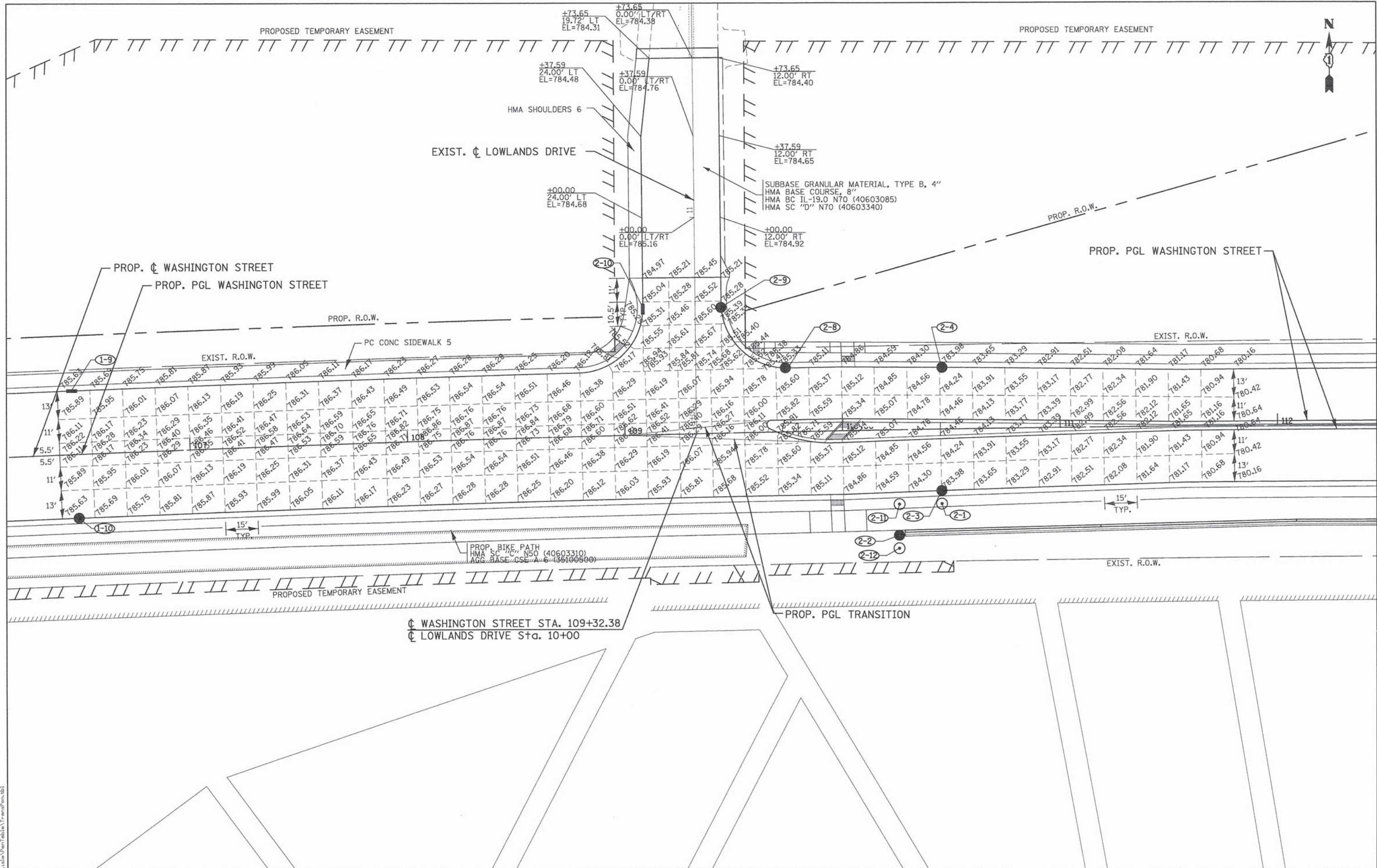
STATE OF ILLINOIS)
)SS
 COUNTY OF LAKE)
 I, PAULA J. TRIGG, COUNTY ENGINEER OF THE COUNTY AFORESAID, DO HEREBY CERTIFY THAT THE PLAT HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY DIRECTION OF PART OF FAU 187, FAU 193 & FAU 195 IN SAID COUNTY.
 DATED THIS _____ DAY OF _____, A.D., 20____

Bollinger, Lach & Associates, Inc.
 333 PIERCE ROAD, SUITE 200 - ITASCA, IL 60143
 P:(630) 438 6400 F:(630) 438 6444 www.bollingerlach.com

REVISION	
DATE	DESCRIPTION
6-29-11	C'NTY REV. 6-29-11
7-15-11	ROW REVISIONS
9-14-11	COUNTY REVISIONS
10-14-11	IDOT REVISIONS
11-18-11	IDOT REVISIONS
2-03-12	IDOT REVISIONS
2-14-12	IDOT REVISIONS
6-05-12	TOT. HOLDINGS 0060
11-26-13	SIG. BLOCK

LAKE COUNTY DIVISION
 OF TRANSPORTATION
 PLAT OF HIGHWAYS
 F.A.U. ROUTE 187 (WASHINGTON STREET)
 SECTION
 JOB NO. R-91-007-12
 STA. 95+20 TO STA. 131+50
 DRAWN: TMS CHECKED: JDB
 SCALE: 1"=150' PLAT 43 OF 43

RECORDED ON: AS DOCUMENT NO.:



Ⓞ WASHINGTON STREET STA. 109+32.38
 Ⓞ LOWLANDS DRIVE Sta. 10+00

PATRICK ENGINEERING INC.
 4970 VARSITY DRIVE
 LISLE, IL 60532
 patrickengineering.com

USER NAME = tkoeppen@dwg.lisle	DESIGNED - MJV	REVISED -
PLOT CONFIG = PDFGrey_Small.plt	DRAWN - MJV	REVISED -
PLOT SCALE = 1:40	CHECKED - MJP	REVISED -
PLOT DATE = 7/3/2014 5:43:41 AM	DATE - 6/30/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
PAVEMENT JOINT AND ELEVATION PLAN - LOWLANDS DRIVE

SCALE: 1"=20' SHEET NO. JT 1 OF 2 STA. TO STA.

F.A.J. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 177
61A63				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

G:\C001\21150_804\Drawings\sheet\Int\S_Int_01.dgn

119+00

120+00

PROP. WASHINGTON STREET



PROP. BIKE PATH
HMA SC "C" N50 (40603310)
AGG BASE CSE B 6 (35101800)

PROP. RETAINING WALL

14.9'

14.3'

14.3'

TYPE B GUTTER

SPBGR TY B 6FT POSTS

HMA SHOULDERS 6

783.22

783.15

783.08

783.01

5-8

5-9

19+00

EXIST. R.O.W.

AGGREGATE SURFACE COURSE
TYPE A 12"

PROP. WCL RR ACCESS ROAD

PCC DRIVEWAY PAVT 6

783.37

783.35

783.38

783.30

783.24

783.46

783.17

783.50

11'

PC CONC SIDEWALK 5

EXIST. R.O.W.



EXIST. R.O.W.

PCC DRIVEWAY PAVT 6

PC CONC SIDEWALK 5

HIGHLAND ROAD

PCC DRIVEWAY PAVT 6

783.42

783.47

783.53

783.57

783.44

783.42

783.17

EXIST. R.O.W.

PATRICK ENGINEERING INC.
4970 VARSITY DRIVE
LISLE, IL 60532
patrickengineering.com

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PLOT CONFIG = PDF(Greg_Small).plt
PLOT SCALE = 1:10
PLOT DATE = 7/3/2014 5:43:51 AM

DESIGNED - MJV
DRAWN - MJV
CHECKED - MJP
DATE - 6/30/2014

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
PAVEMENT JOINT AND ELEVATION PLAN - WCL RR ACCESS ROAD

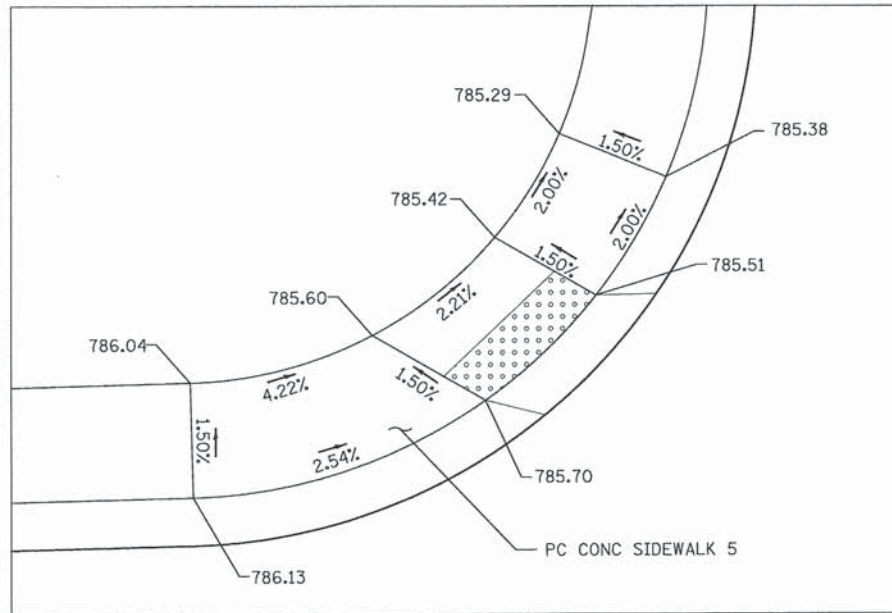
SCALE: 1"=5' SHEET NO. JT 2 OF 2 STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
187	11-00121-11-BR	LAKE	496	178
			61A63	

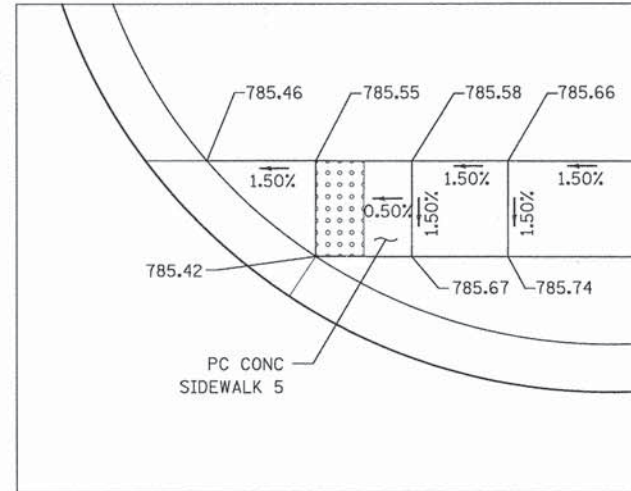
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

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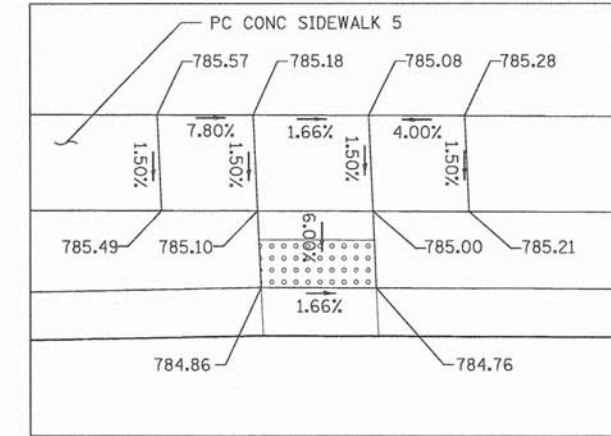
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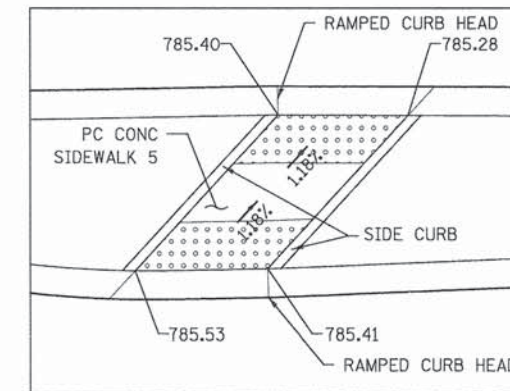
NW CORNER OF WASHINGTON @ HARYAN



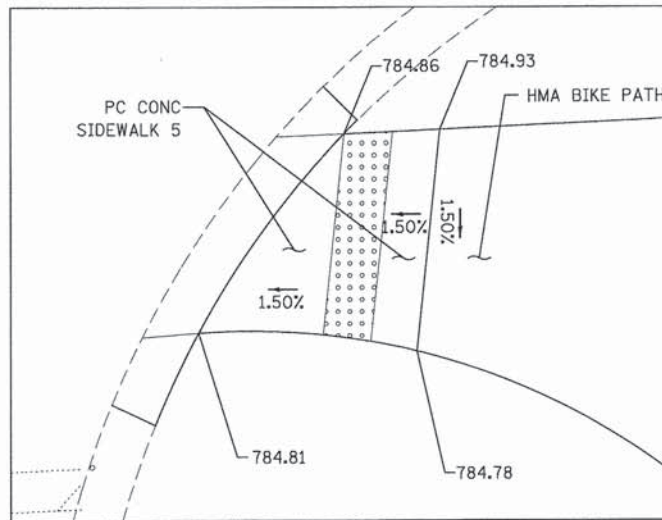
NE CORNER WASHINGTON @ HARYAN



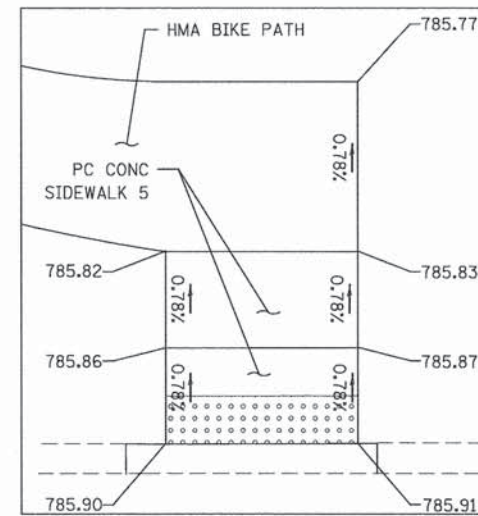
MID-BLOCK CROSSING
WASHINGTON WEST OF LOWLANDS (NORTH SIDE)



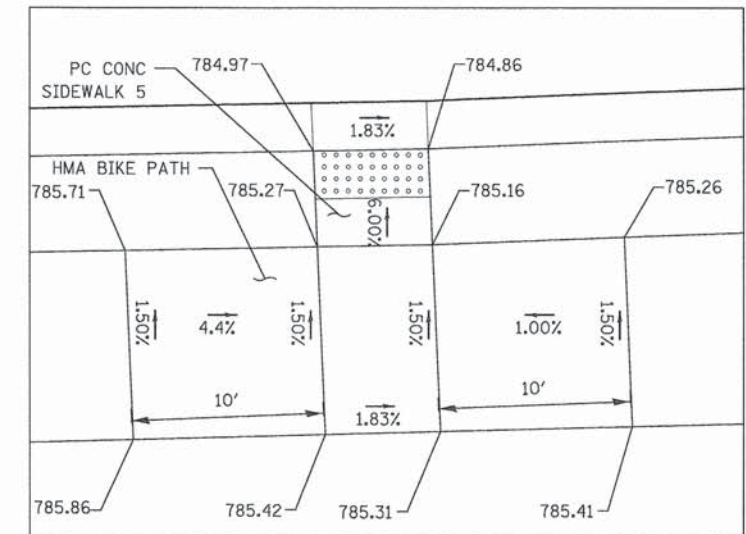
MID-BLOCK CROSSING
WASHINGTON WEST OF LOWLANDS (MEDIAN)



SE CORNER OF WASHINGTON @ HARYAN



ALLEGHANY RD EAST OF HARYAN



MID-BLOCK CROSSING
WASHINGTON EAST OF LOWLANDS (SOUTH SIDE)

PENTABLE = ...LISLE\PORTABLE\TRANSPEN.TBL

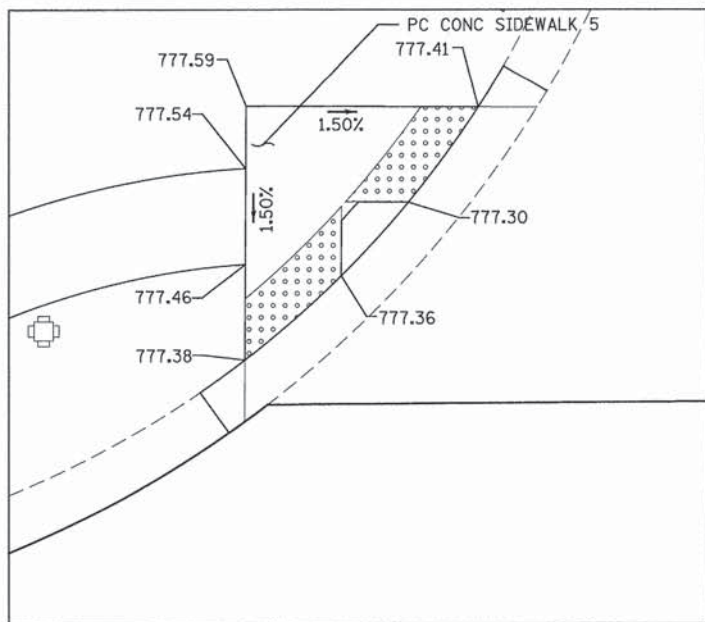
	PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME = tkoeppen@dy.Lisle	DESIGNED - ZMZ	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

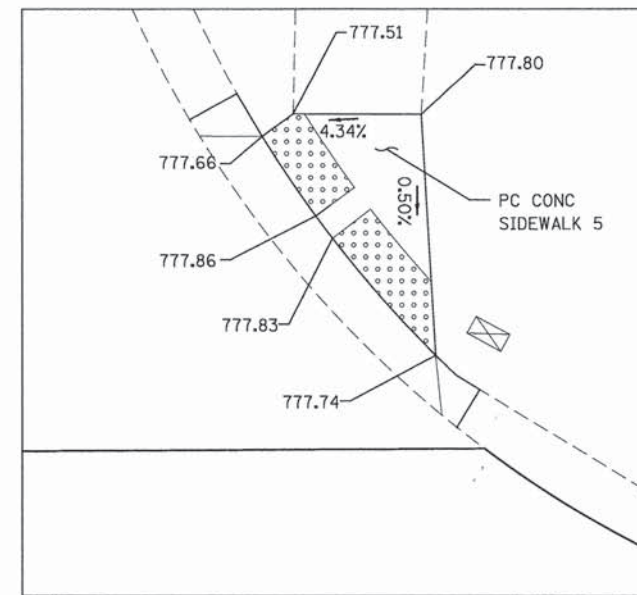
**WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
SIDEWALK CURB RAMP DETAILS**

SCALE: 1"=5' SHEET NO. SW 1 OF 2 STA. TO STA.

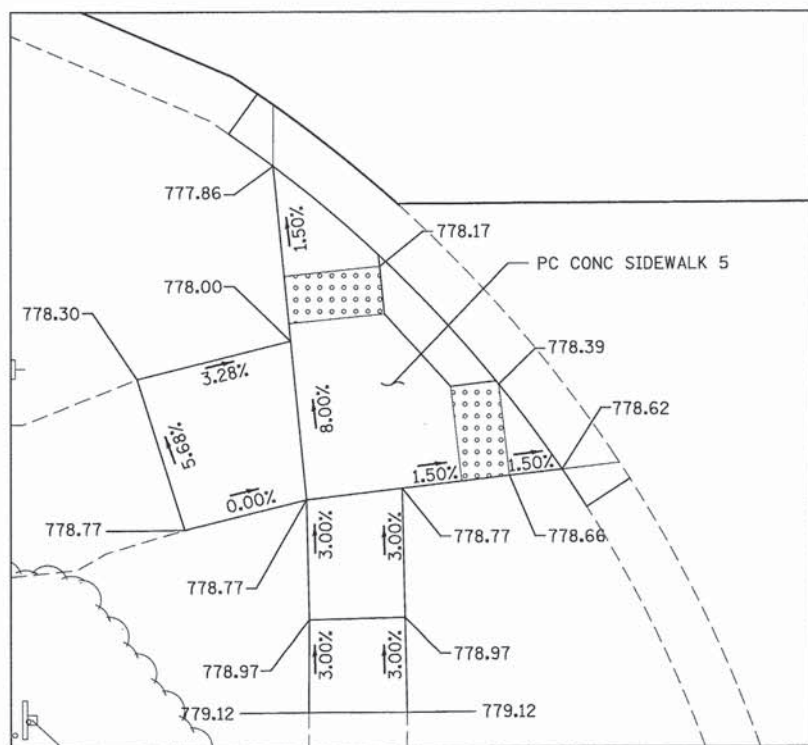
F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 179
61A63				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



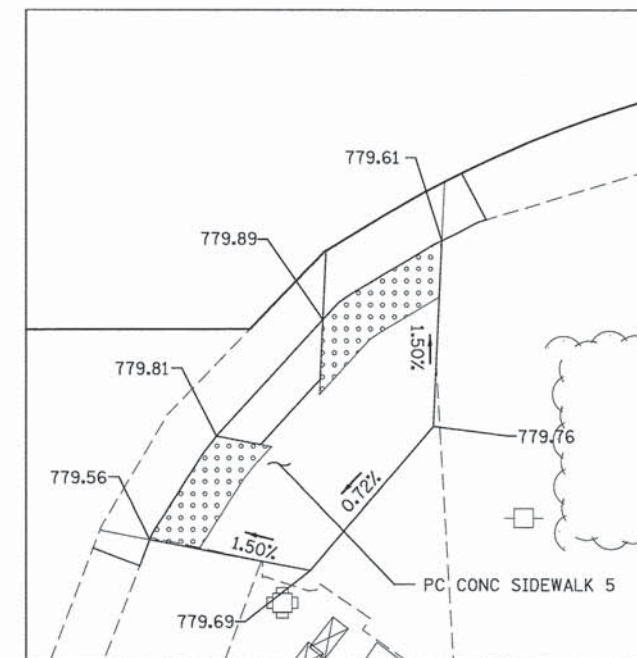
NW CORNER WASHINGTON @ LAKE



NE CORNER WASHINGTON @ LAKE



SW CORNER WASHINGTON @ LAKE



SE CORNER WASHINGTON @ LAKE

RENTABLE = ...\\LISLE\PROJECTS\TRANSPEN\TBL

PATRICK ENGINEERING
 PATRICK ENGINEERING INC.
 4970 VARSITY DRIVE
 LISLE, IL 60532
 patrickengineering.com

USER NAME = mpineV8t(Rdwy.Lisle)
 PLOT CONFIG = PDF(Grey_Large).plt
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DESIGNED - ZMZ
 DRAWN - ZMZ
 CHECKED - MJP
 DATE - 6/30/2014

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
 SIDEWALK CURB RAMP DETAILS**

SCALE: 1"=5' SHEET NO. SW 2 OF 2 STA. TO STA.

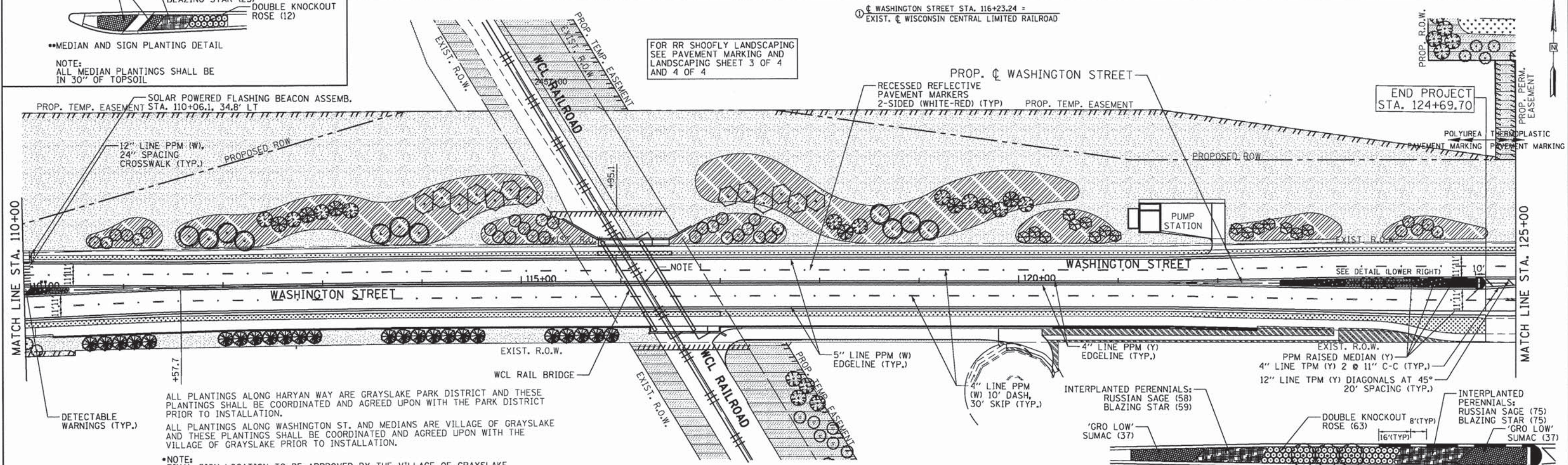
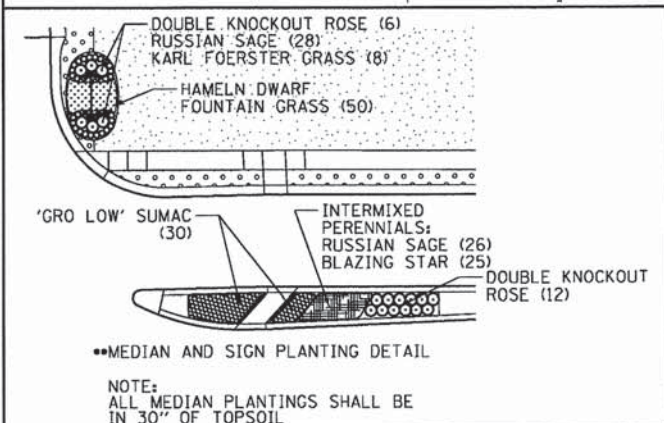
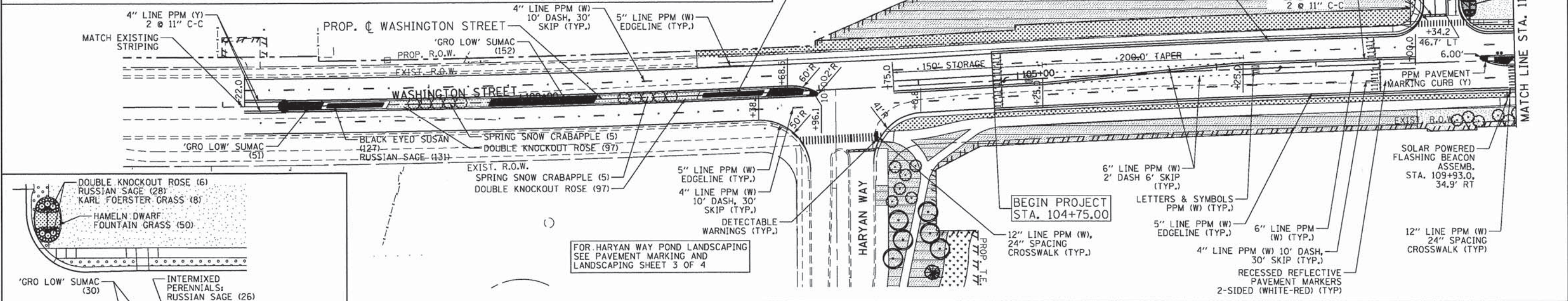
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
187	11-00121-11-BR	LAKE	496	180
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			61A63	

LEGEND

PPM = POLYUREA PAVEMENT MARKING
 TPM = THERMOPLASTIC PAVEMENT MARKING

- [Pattern] = SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 4"
- [Pattern] = SEEDING, CL 1B LOW MAINTENANCE LAWN MIX TOPSOIL FURNISH AND PLACE, 4" NITROGEN AND POTASSIUM FERTILIZER EROSION CONTROL BLANKET
- [Pattern] = SEEDING, CLASS 2A ROADSIDE MIX TOPSOIL FURNISH AND PLACE, 4" NITROGEN AND POTASSIUM FERTILIZER EROSION CONTROL BLANKET
- [Pattern] = SEEDING, CLASS 4A LOW PROFILE NATIVE GRASS TOPSOIL FURNISH AND PLACE, 4" EROSION CONTROL BLANKET

- [Symbol] = SEEDING, CLASS 4A (MODIFIED) LOW PROFILE NATIVE GRASS TOPSOIL FURNISH AND PLACE, 4" EROSION CONTROL BLANKET
- [Symbol] = SEEDING, CLASS 4B WETLAND GRASS AND SEDGE MIXTURE TOPSOIL FURNISH AND PLACE, 4" EROSION CONTROL BLANKET
- [Symbol] = PROPOSED SHRUB
- [Symbol] = PROPOSED BUR OAK TREE, 2.5" MIN. (20' MIN. SPACING)
- [Symbol] = PROPOSED RED OAK TREE, 2.5" MIN. (20' MIN. SPACING)
- [Symbol] = PROPOSED WINTER KING GREEN HAWTHORN TREE, 2.5" MIN. (15' MIN. SPACING)
- [Symbol] = PROPOSED SNOWDRIFT CRABAPPLE TREE, 7 FT. (20' MIN. SPACING)
- [Symbol] = PROPOSED SPRING SNOW CRABAPPLE TREE, 2" MIN. (15' MIN. SPACING)
- [Symbol] = PROPOSED NORWAY SPRUCE TREE, 8 FT. (15' MIN. SPACING)
- [Symbol] = PROPOSED WHITE PINE TREE, 8 FT. (20' MIN. SPACING)
- [Symbol] = PROPOSED WHITE PINE TREE, 10 FT. (20' MIN. SPACING)
- [Symbol] = PROPOSED FRONTIER ELM, 3" (15' MIN. SPACING)



Bollinger, Lach & Associates, Inc.
 ITASCA, ILLINOIS

USER NAME = #USER*	DESIGNED - AL	REVISED -
PLOT CONFID = #PLTORV5*	DRAWN - AL	REVISED -
PLOT SCALE = #SCALESORT*	CHECKED - EO	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

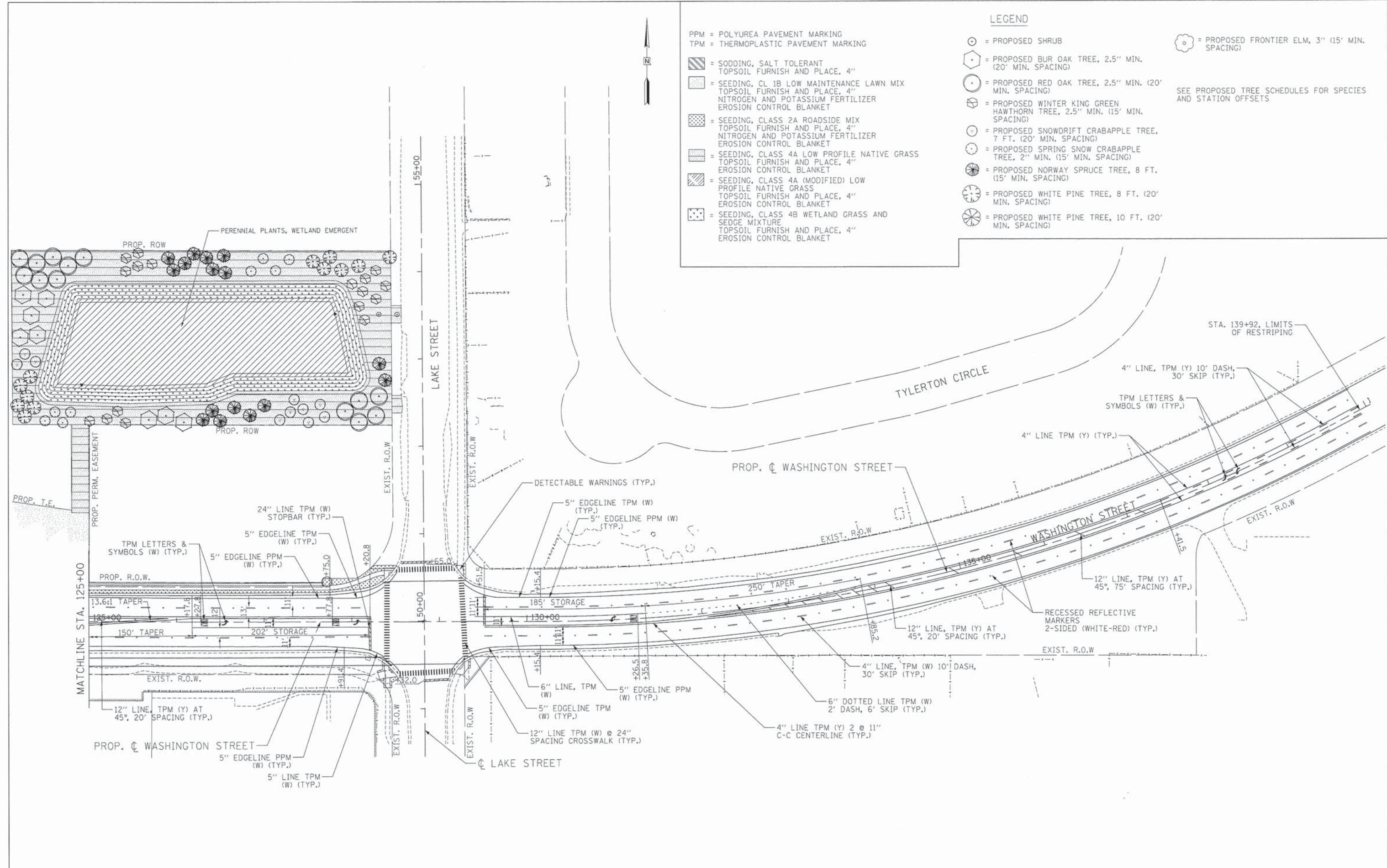
**WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
 PAVEMENT MARKING AND LANDSCAPE PLAN**

SCALE: 1"=50' SHEET NO. PKM 1 OF 4 STA. 98+55 TO STA. 125+00

F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 181
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

- PPM = POLYUREA PAVEMENT MARKING
 TPM = THERMOPLASTIC PAVEMENT MARKING
- [Symbol] = SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 4"
 - [Symbol] = SEEDING, CL 1B LOW MAINTENANCE LAWN MIX TOPSOIL FURNISH AND PLACE, 4" NITROGEN AND POTASSIUM FERTILIZER EROSION CONTROL BLANKET
 - [Symbol] = SEEDING, CLASS 2A ROADSIDE MIX TOPSOIL FURNISH AND PLACE, 4" NITROGEN AND POTASSIUM FERTILIZER EROSION CONTROL BLANKET
 - [Symbol] = SEEDING, CLASS 4A LOW PROFILE NATIVE GRASS TOPSOIL FURNISH AND PLACE, 4" EROSION CONTROL BLANKET
 - [Symbol] = SEEDING, CLASS 4A (MODIFIED) LOW PROFILE NATIVE GRASS TOPSOIL FURNISH AND PLACE, 4" EROSION CONTROL BLANKET
 - [Symbol] = SEEDING, CLASS 4B WETLAND GRASS AND SEDGE MIXTURE TOPSOIL FURNISH AND PLACE, 4" EROSION CONTROL BLANKET

- LEGEND**
- [Symbol] = PROPOSED SHRUB
 - [Symbol] = PROPOSED BUR OAK TREE, 2.5" MIN. (20' MIN. SPACING)
 - [Symbol] = PROPOSED RED OAK TREE, 2.5" MIN. (20' MIN. SPACING)
 - [Symbol] = PROPOSED WINTER KING GREEN HAWTHORN TREE, 2.5" MIN. (15' MIN. SPACING)
 - [Symbol] = PROPOSED SNOWDRIFT CRABAPPLE TREE, 7 FT. (20' MIN. SPACING)
 - [Symbol] = PROPOSED SPRING SNOW CRABAPPLE TREE, 2" MIN. (15' MIN. SPACING)
 - [Symbol] = PROPOSED NORWAY SPRUCE TREE, 8 FT. (15' MIN. SPACING)
 - [Symbol] = PROPOSED WHITE PINE TREE, 8 FT. (20' MIN. SPACING)
 - [Symbol] = PROPOSED WHITE PINE TREE, 10 FT. (20' MIN. SPACING)
- SEE PROPOSED TREE SCHEDULES FOR SPECIES AND STATION OFFSETS



Bollinger, Lach & Associates, Inc.
 ITASCA, ILLINOIS

USER NAME = orik	DESIGNED - AL	REVISED -
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PLOT SCALE = #SCALESHORT#	CHECKED - EO	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**














**WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
 PAVEMENT MARKING AND LANDSCAPE PLAN**

SCALE: 1"=50' SHEET NO. PMK 2 OF 4 STA. 125+00 TO STA. 140+00

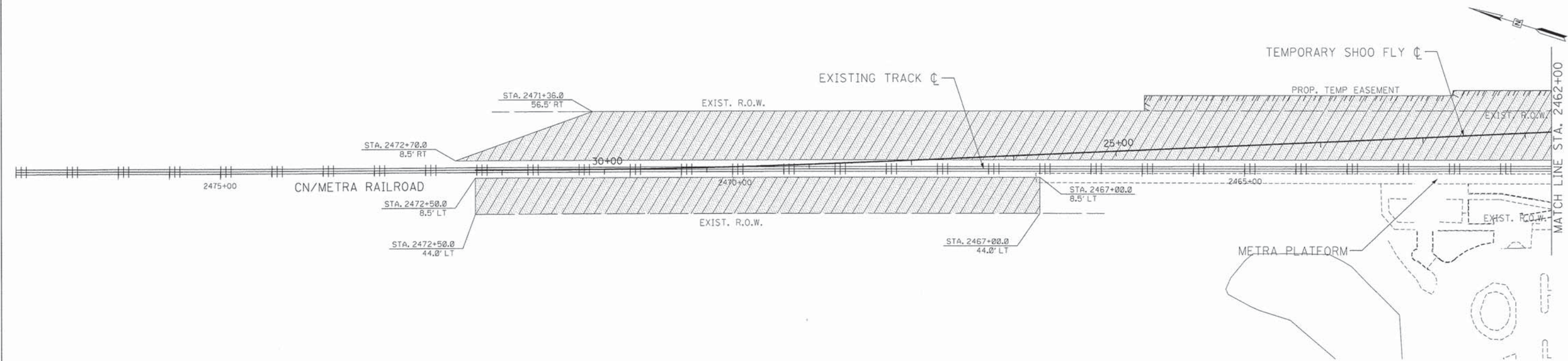
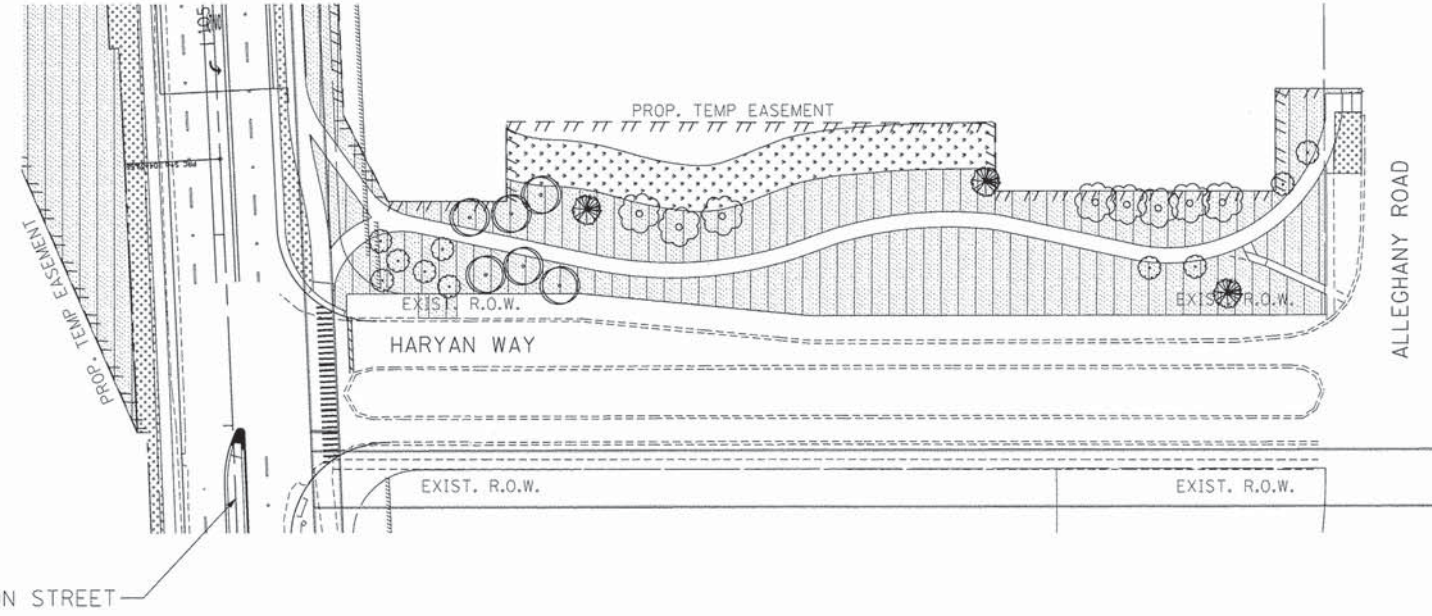
F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 182
CONTRACT NO.				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				


LEGEND

PPM = POLYUREA PAVEMENT MARKING
 TPM = THERMOPLASTIC PAVEMENT MARKING

-  = SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 4"
-  = SEEDING, CLASS 2A ROADSIDE MIX TOPSOIL FURNISH AND PLACE, 4" NITROGEN AND POTASSIUM FERTILIZER EROSION CONTROL BLANKET
-  = SEEDING, CLASS 4A (MODIFIED) LOW PROFILE NATIVE GRASS TOPSOIL FURNISH AND PLACE, 4" EROSION CONTROL BLANKET
-  = SEEDING, CLASS 4B WETLAND GRASS AND SEDGE MIXTURE TOPSOIL FURNISH AND PLACE, 4" EROSION CONTROL BLANKET
-  = PROPOSED BUR OAK TREE, 2.5" MIN. (20' MIN. SPACING)
-  = PROPOSED RED OAK TREE, 2.5" MIN. (20' MIN. SPACING)
-  = PROPOSED WINTER KING GREEN HAWTHORN TREE, 2.5" MIN. (15' MIN. SPACING)
-  = PROPOSED SNOWDRIFT CRABAPPLE TREE, 7 FT. (20' MIN. SPACING)
-  = PROPOSED SPRING SNOW CRABAPPLE TREE, 2" MIN. (15' MIN. SPACING)
-  = PROPOSED NORWAY SPRUCE TREE, 8 FT. (15' MIN. SPACING)
-  = PROPOSED WHITE PINE TREE, 8 FT. (20' MIN. SPACING)
-  = PROPOSED WHITE PINE TREE, 10 FT. (20' MIN. SPACING)
-  = PROPOSED FRONTIER ELM, 3" (15' MIN. SPACING)

SEE PROPOSED TREE SCHEDULES FOR SPECIES AND STATION OFFSETS









	USER NAME = erik	DESIGNED - AL	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**










**WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
 PAVEMENT MARKING AND LANDSCAPE PLAN**
 SCALE: 1"=50' SHEET NO. PMK 3 OF 4 STA. 2473+00 TO STA. 2462+00

F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 183
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PPM = POLYUREA PAVEMENT MARKING
 TPM = THERMOPLASTIC PAVEMENT MARKING

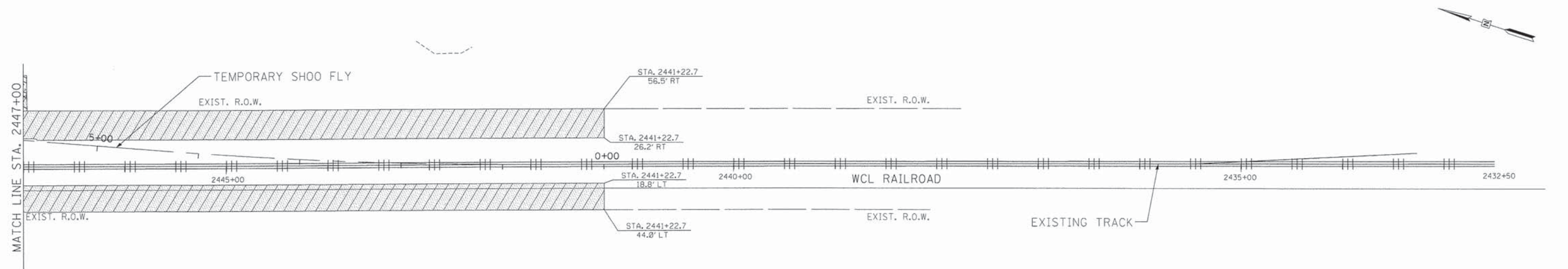
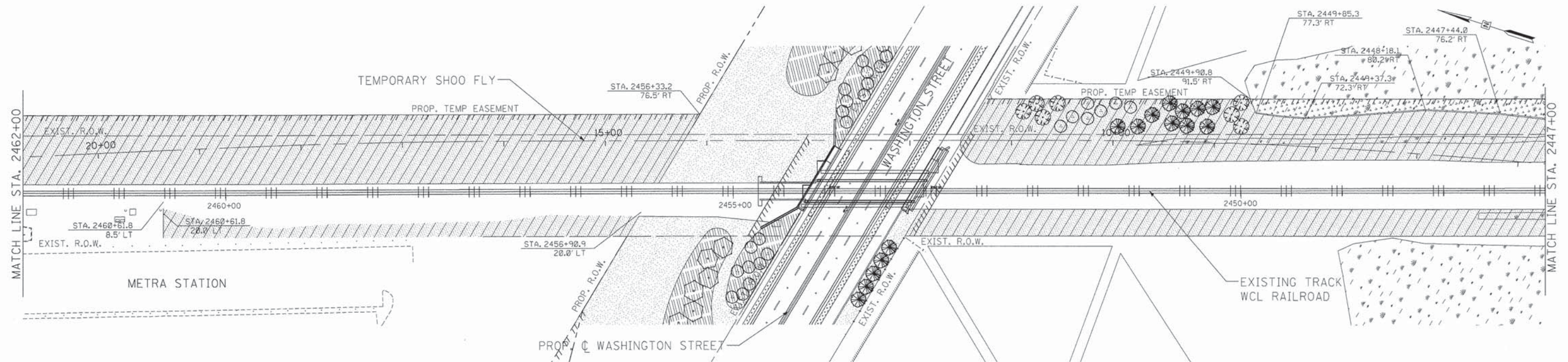
-  = SODDING, SALT TOLERANT TOPSOIL FURNISH AND PLACE, 4"
-  = SEEDING, CL 1B LOW MAINTENANCE LAWN MIX TOPSOIL FURNISH AND PLACE, 4" NITROGEN AND POTASSIUM FERTILIZER EROSION CONTROL BLANKET
-  = SEEDING, CLASS 2A ROADSIDE MIX TOPSOIL FURNISH AND PLACE, 4" NITROGEN AND POTASSIUM FERTILIZER EROSION CONTROL BLANKET
-  = SEEDING, CLASS 4A LOW PROFILE NATIVE GRASS TOPSOIL FURNISH AND PLACE, 4" EROSION CONTROL BLANKET
-  = SEEDING, CLASS 4A (MODIFIED) LOW PROFILE NATIVE GRASS TOPSOIL FURNISH AND PLACE, 4" EROSION CONTROL BLANKET
-  = SEEDING, CLASS 4B WETLAND GRASS AND SEDGE MIXTURE TOPSOIL FURNISH AND PLACE, 4" EROSION CONTROL BLANKET


LEGEND

-  = PROPOSED SHRUB
-  = PROPOSED BUR OAK TREE, 2.5" MIN. (20' MIN. SPACING)
-  = PROPOSED RED OAK TREE, 2.5" MIN. (20' MIN. SPACING)
-  = PROPOSED WINTER KING GREEN HAWTHORN TREE, 2.5" MIN. (15' MIN. SPACING)
-  = PROPOSED SNOWDRIFT CRABAPPLE TREE, 7 FT. (20' MIN. SPACING)
-  = PROPOSED SPRING SNOW CRABAPPLE TREE, 2" MIN. (15' MIN. SPACING)
-  = PROPOSED NORWAY SPRUCE TREE, 8 FT. (15' MIN. SPACING)
-  = PROPOSED WHITE PINE TREE, 8 FT. (20' MIN. SPACING)
-  = PROPOSED WHITE PINE TREE, 10 FT. (20' MIN. SPACING)

 = PROPOSED FRONTIER ELM, 3" (15' MIN. SPACING)

SEE PROPOSED TREE SCHEDULES FOR SPECIES AND STATION OFFSETS



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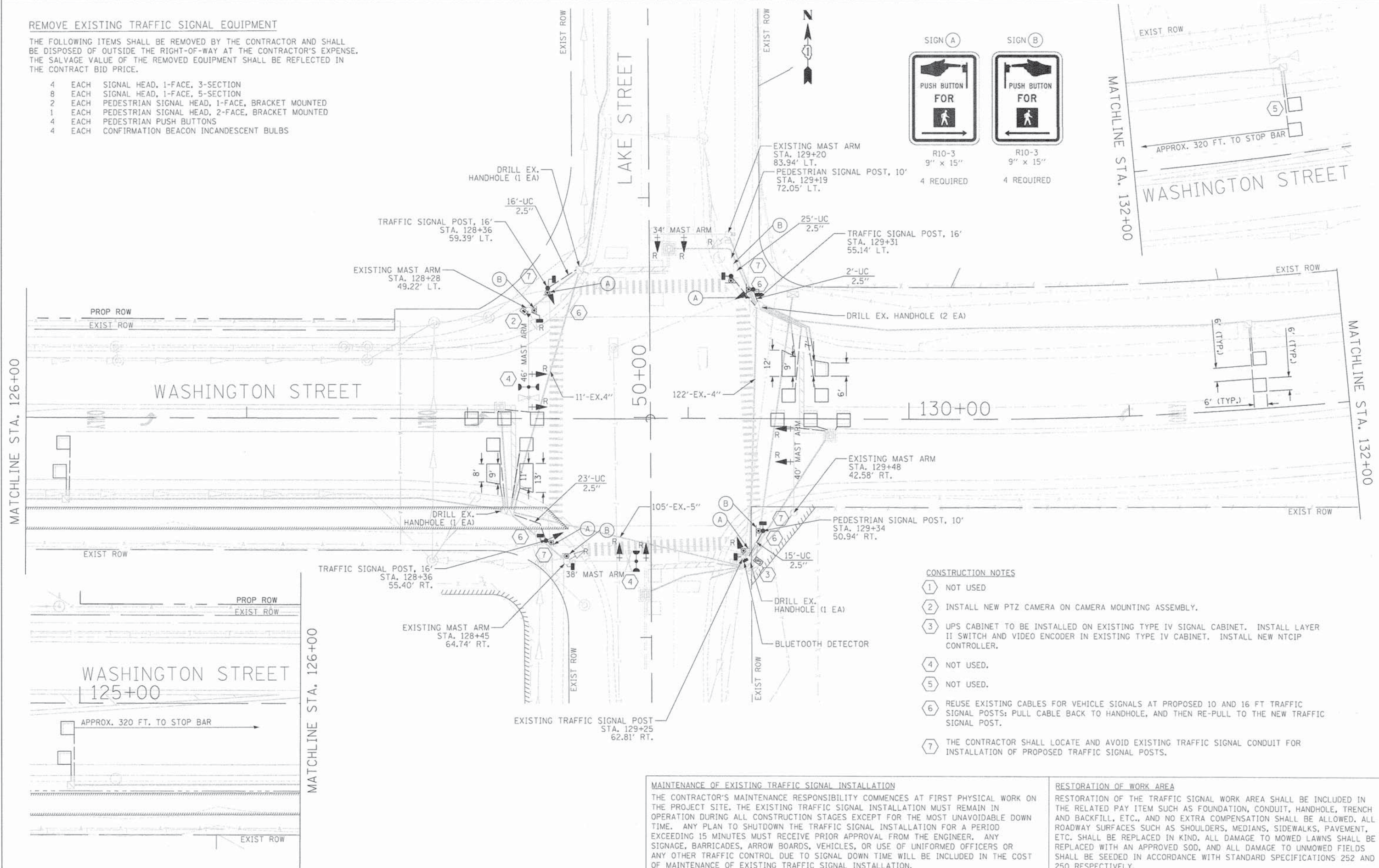
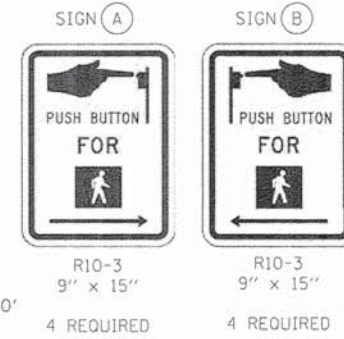
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET PAVEMENT MARKING AND LANDSCAPE PLAN		F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 184
SCALE: 1"=50'	SHEET NO. PMK 4 OF 4	STA. 2462+00 TO STA. 2432+50		CONTRACT NO.		
				FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF OUTSIDE THE RIGHT-OF-WAY AT THE CONTRACTOR'S EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 8 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 2 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
- 1 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE, BRACKET MOUNTED
- 4 EACH PEDESTRIAN PUSH BUTTONS
- 4 EACH CONFIRMATION BEACON INCANDESCENT BULBS



CONSTRUCTION NOTES

- ① NOT USED
- ② INSTALL NEW PTZ CAMERA ON CAMERA MOUNTING ASSEMBLY.
- ③ UPS CABINET TO BE INSTALLED ON EXISTING TYPE IV SIGNAL CABINET. INSTALL LAYER II SWITCH AND VIDEO ENCODER IN EXISTING TYPE IV CABINET. INSTALL NEW NTCIP CONTROLLER.
- ④ NOT USED.
- ⑤ NOT USED.
- ⑥ REUSE EXISTING CABLES FOR VEHICLE SIGNALS AT PROPOSED 10 AND 16 FT TRAFFIC SIGNAL POSTS; PULL CABLE BACK TO HANDHOLE, AND THEN RE-PULL TO THE NEW TRAFFIC SIGNAL POST.
- ⑦ THE CONTRACTOR SHALL LOCATE AND AVOID EXISTING TRAFFIC SIGNAL CONDUIT FOR INSTALLATION OF PROPOSED TRAFFIC SIGNAL POSTS.

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

THE CONTRACTOR'S MAINTENANCE RESPONSIBILITY COMMENCES AT FIRST PHYSICAL WORK ON THE PROJECT SITE. THE EXISTING TRAFFIC SIGNAL INSTALLATION MUST REMAIN IN OPERATION DURING ALL CONSTRUCTION STAGES EXCEPT FOR THE MOST UNAVOIDABLE DOWN TIME. ANY PLAN TO SHUTDOWN THE TRAFFIC SIGNAL INSTALLATION FOR A PERIOD EXCEEDING 15 MINUTES MUST RECEIVE PRIOR APPROVAL FROM THE ENGINEER. ANY SIGNAGE, BARRICADES, ARROW BOARDS, VEHICLES, OR USE OF UNIFORMED OFFICERS OR ANY OTHER TRAFFIC CONTROL DUE TO SIGNAL DOWN TIME WILL BE INCLUDED IN THE COST OF MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION.

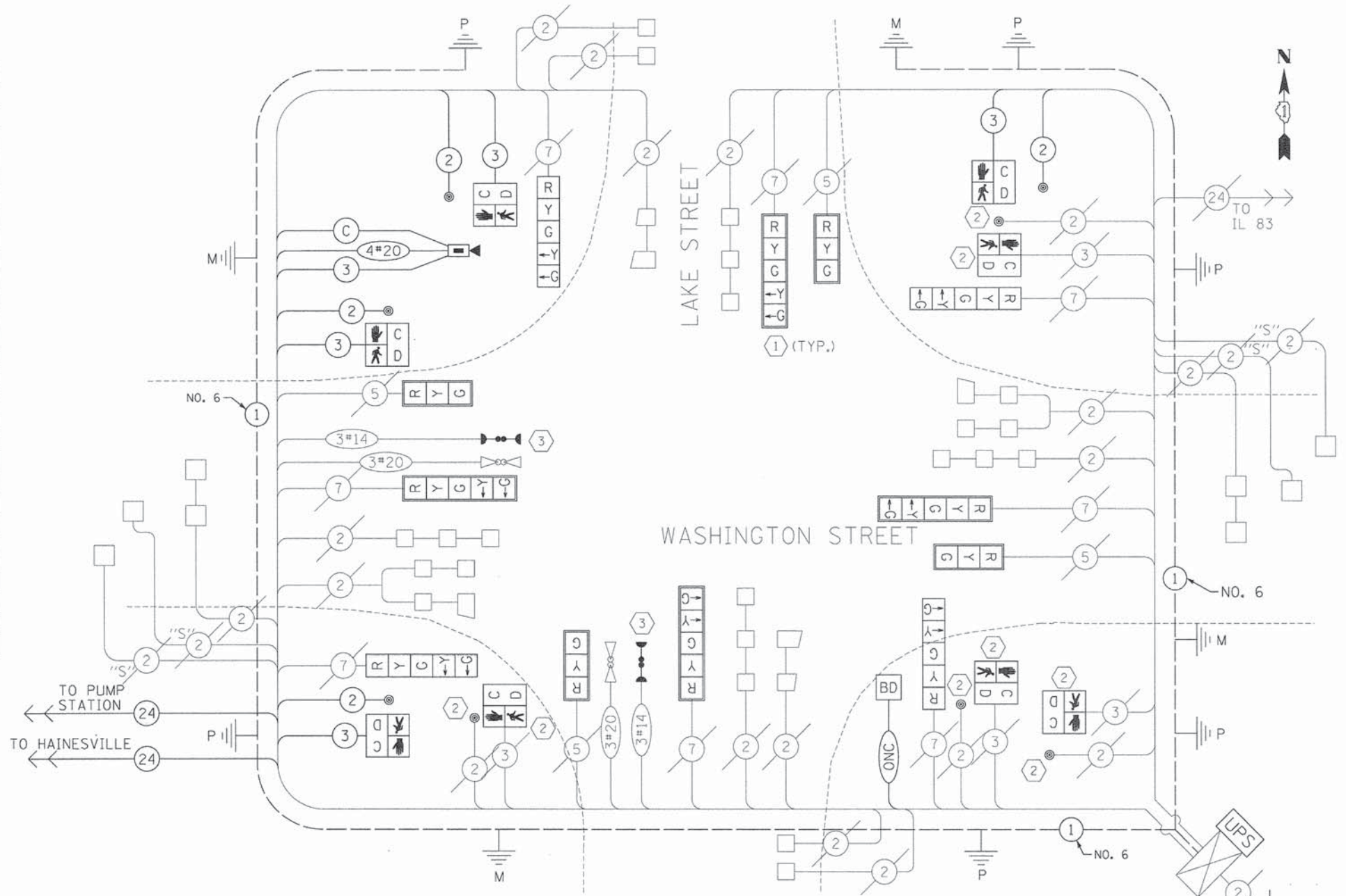
RESTORATION OF WORK AREA

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

	USER NAME = #USER#	DESIGNED - AL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET PROPOSED TRAFFIC SIGNAL PLAN		F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 185
	PLOT CONFIG = #PLTDRVS#	DRAWN - AL	REVISED -		SCALE: 1"=20'	SHEET NO. SGL 1 OF 15	WASHINGTON ST AT LAKE ST	FED. ROAD DIST. NO. [ILLINOIS]	FED. AID PROJECT		
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PLOT DATE = #DATE#	#TIME#	DATE - 06-30-2014	REVISED -								

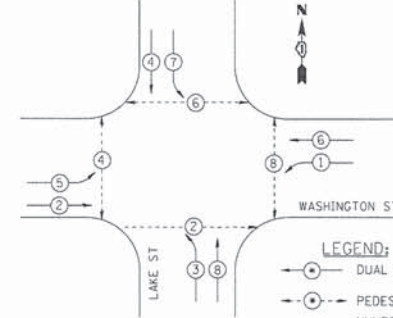
SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
DRILL EXISTING HANDHOLE	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
DETECTOR LOOP REPLACEMENT	FOOT	888
PEDESTRIAN PUSH-BUTTON	EACH	8
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
MEDIA CONVERTER	EACH	1
3000 LAYER 2 SWITCH	EACH	#N/A
FULL-ACTUATED CONTROLLER IN EXISTING CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	330
ELECTRIC CABLE IN CONDUIT, VIDEO, NO. 20 4 C	FOOT	330
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
VIDEO ENCODER	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	42
BLUETOOTH DETECTOR	EACH	1
CAMERA MOUNTING ASSEMBLY	EACH	1



- CONSTRUCTION NOTES**
- 1 REMOVE EXISTING TRAFFIC SIGNAL HEAD AND INSTALL NEW TRAFFIC SIGNAL HEAD UTILIZING EXISTING CABLES.
 - 2 REMOVE EXISTING PEDESTRIAN PUSH BUTTON OR EXISTING PEDESTRIAN SIGNAL HEAD. INSTALL NEW PEDESTRIAN PUSH BUTTON OR PEDESTRIAN SIGNAL HEAD UTILIZING EXSITING CABLES.
 - 3 REMOVE EXISTING INCANDESCENT BULBS FROM EXISTING CONFIRMATION BEACONS. INSTALL NEW LED BULBS UTILIZING EXISTING WIRES.

CONTROLLER SEQUENCE



EMERGENCY VEHICLE PREEMPTION SEQUENCE



LC DOT TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE	% OPERATION		
		INCAND	LED		
SIGNAL (RED)	12	10		50	60.0
(YELLOW)	12	19		10	22.8
(GREEN)	12	11		40	52.8
ARROW (YELLOW)	8	9		10	7.2
(GREEN)	8	9		10	7.2
PED. SIGNAL	8	9		100	72.0
CONTROLLER	1	100		100	100.0
VIDEO SYSTEM	0	0		100	0.0
BATTERY BACKUP	1	25		100	25.0
				TOTAL	= 347.0

ENERGY COST TO: VILLAGE OF GRAYSLAKE
10 SOUTH SEYMOUR AVENUE
GRAYSLAKE, ILLINOIS 60030

ENERGY SUPPLY: CONTACT: *Migdalia Rivera*
PHONE: (847) 816-5489
COMPANY: Com Ed

FOUNDATION (DEPTH)	(FT.)	CABLE SLACK	(FT.)	VERTICAL	(FT.)
TYPE A - POST	4	HANDHOLE	6.5	ALL FOUNDATIONS	3.5
D - CONTROLLER	4	DOUBLE HANDHOLE	13	MAST ARM (L) POLE	20' + L - 2 =
E - COMB. M.A. POLE	15	SIGNAL POST	2	BRACKET MOUNTED	13
		CONTROLLER CAB.	1	PEDESTRIAN PUSHBUTTON	6
		FIBER OPTIC	13	ELECTRIC SERVICE	13.5
		ELECTRIC SERVICE	1	SERVICE TO GROUND	13.5
		GROUND CABLE	1	POST MOUNTED	6

Bollinger, Lach & Associates, Inc. | **STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION** | **WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET CABLE DIAGRAM**

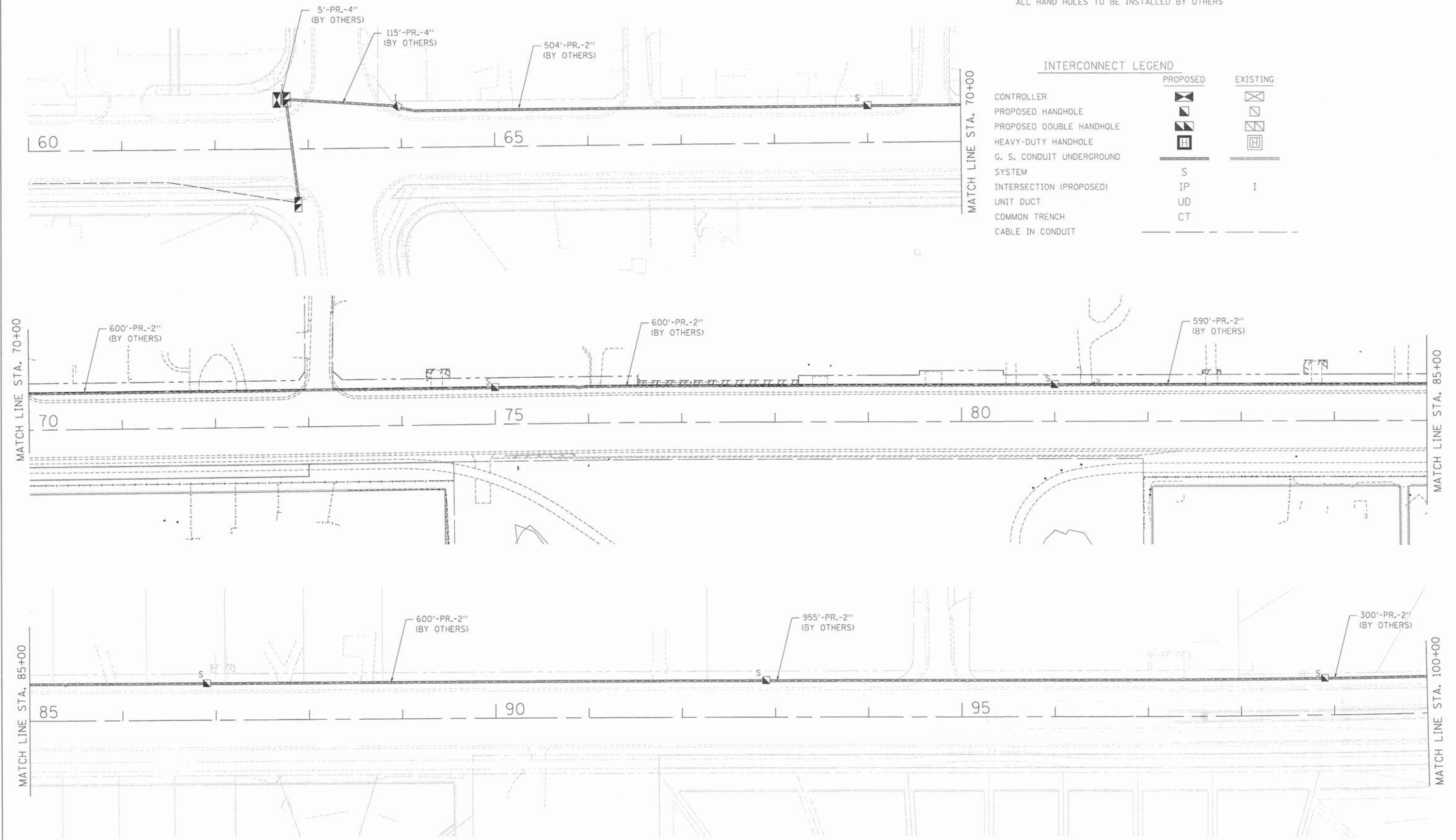
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DESIGNED - AL	DRAWN - AL	REVISED -	SCALE: N.T.S. SHEET NO. SQL 2 OF 15 WASHINGTON ST AT LAKE ST			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	
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PLOT DATE = 6/28/2014	DATE - 06-30-2014	REVISED -					

NOTES

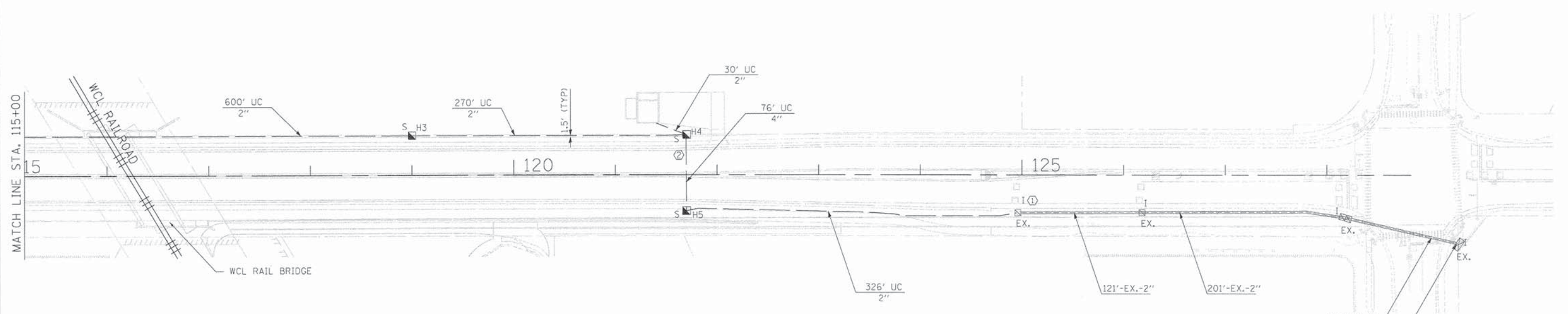
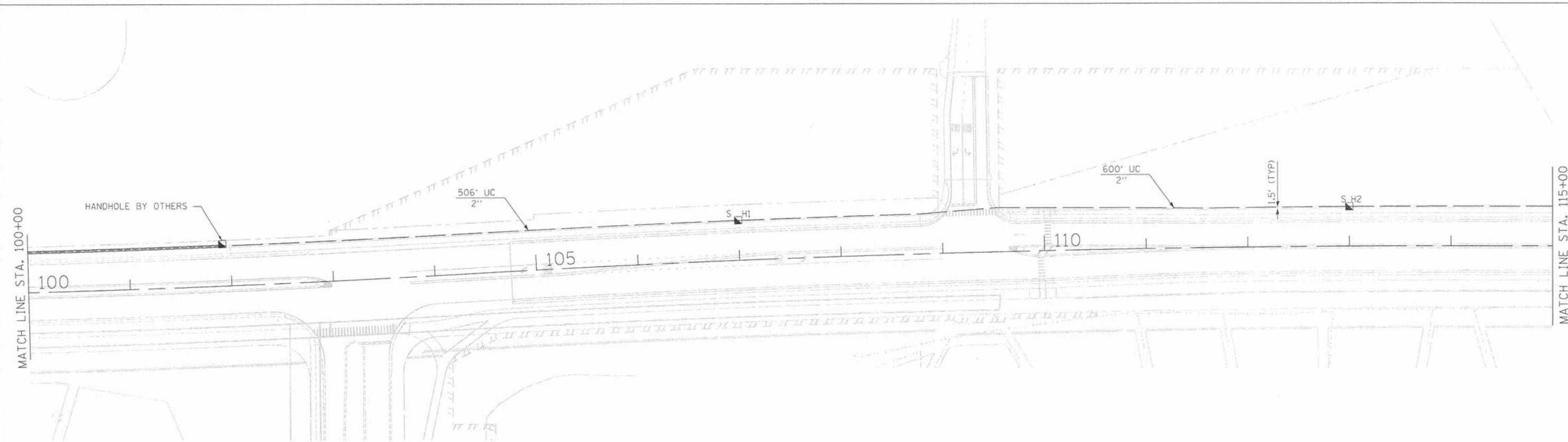
PULL CABLE THROUGH CONDUIT INSTALLED BY OTHERS
 ALL HAND HOLES TO BE INSTALLED BY OTHERS

INTERCONNECT LEGEND

	PROPOSED	EXISTING
CONTROLLER		
PROPOSED HANDHOLE		
PROPOSED DOUBLE HANDHOLE		
HEAVY-DUTY HANDHOLE		
G. S. CONDUIT UNDERGROUND SYSTEM	S	I
INTERSECTION (PROPOSED)	IP	I
UNIT DUCT	UD	
COMMON TRENCH	CT	
CABLE IN CONDUIT	---	



<p>Bollinger, Lach & Associates, Inc. ITASCA, ILLINOIS</p>	USER NAME = #USER#	DESIGNED - AL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET INTERCONNECT PLAN			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = #DATE# #TIME#	DATE - 06-30-2014	REVISED -		SCALE: 1"=50'	SHEET NO. SGL. 3 OF 15	STA. 104+00 TO STA. 130+00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



INTERCONNECT LEGEND

	PROPOSED	EXISTING
CONTROLLER		
PROPOSED HANDHOLE		
PROPOSED DOUBLE HANDHOLE		
HEAVY-DUTY HANDHOLE		
G. S. CONDUIT UNDERGROUND SYSTEM	S	I
INTERSECTION (PROPOSED)	IP	I
UNIT DUCT	UD	
COMMON TRENCH	CT	
CABLE IN CONDUIT		

NOTES

- ① DRILL EXISTING HANDHOLE (1 EA)
- ② INSTALL CONDUIT UNDER PIPE DRAINS

ITEM	STATIONING	OFFSET
H1	107+00	39' LT.
H2	113+00	39' LT.
H3	119+00	39' LT.
H4	121+70	39' LT.
H5	121+70	36' RT.



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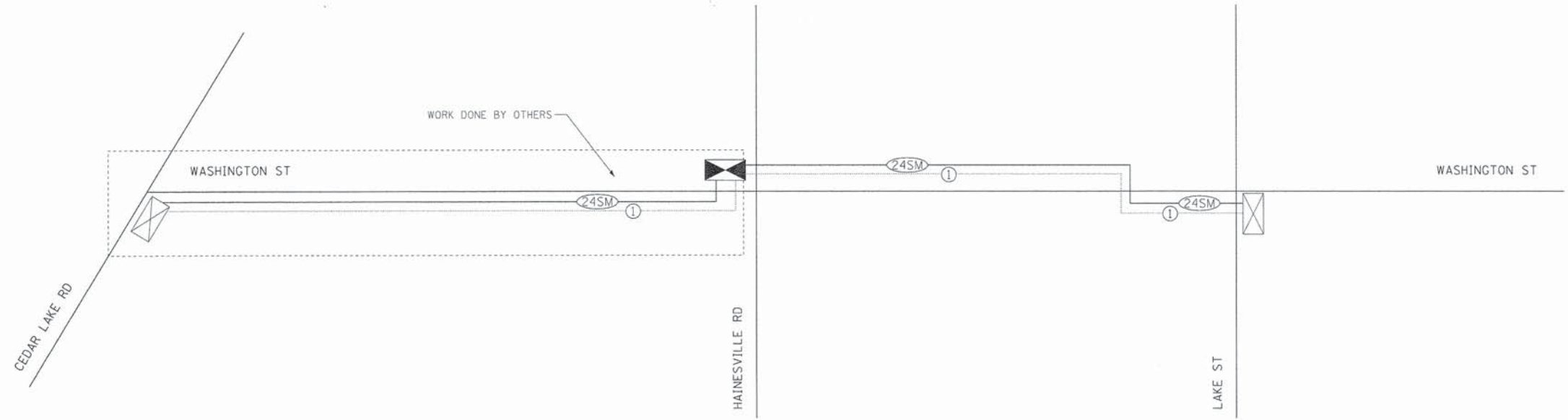
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
INTERCONNECT PLAN**



















F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
187	11-00121-11-BR	LAKE	496	188
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SCALE: 1"=50' SHEET NO. SGL. 4 OF 15 STA. 104+00 TO STA. 130+00

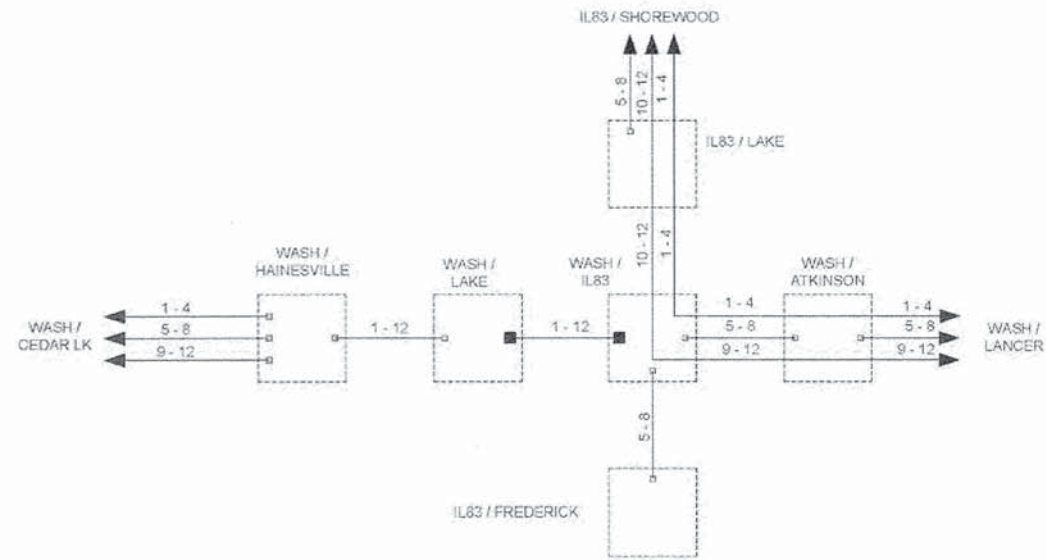
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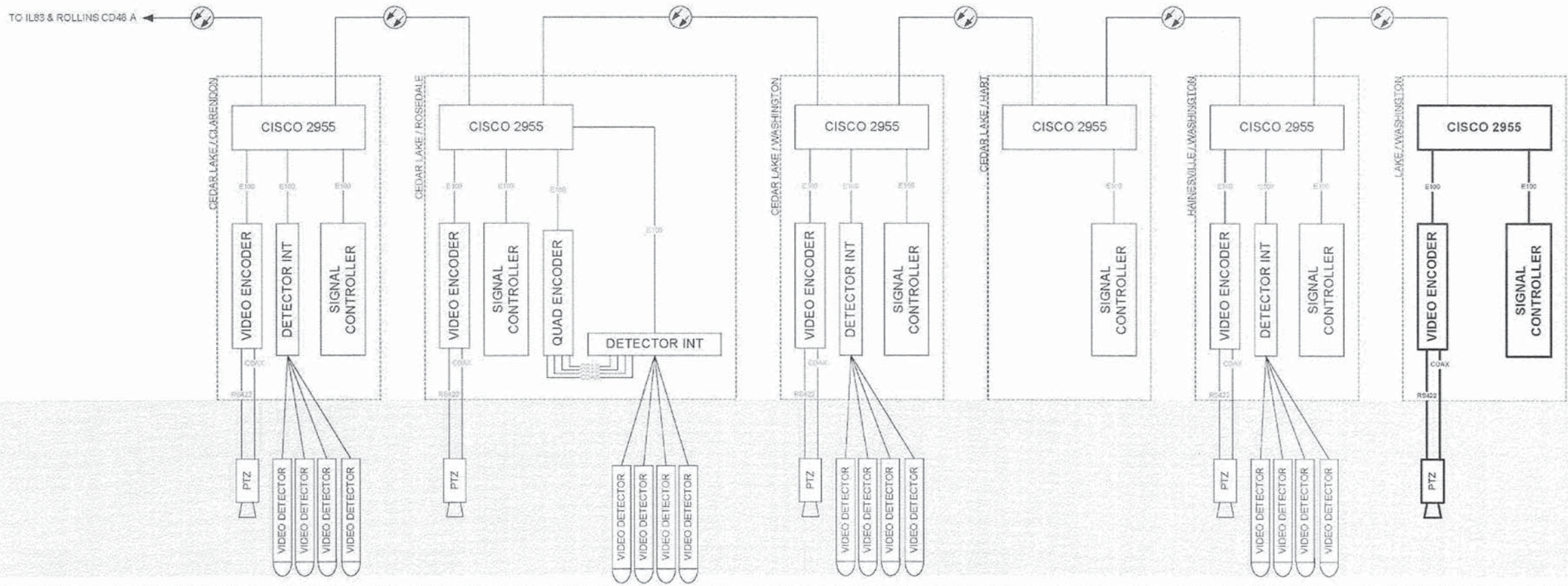
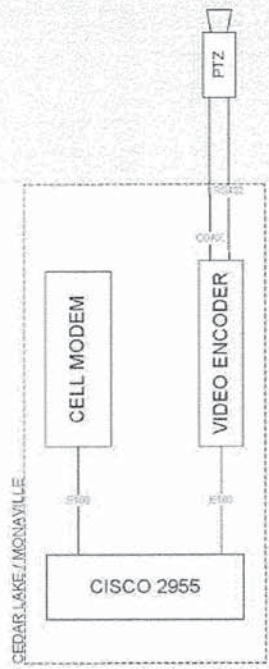
INTERCONNECT SCHEMATIC LEGEND

-  INTERSECTION CONTROLLER
-  VIDEO COMMUNICATIONS CABINET
-  EXISTING INTERSECTION CONTROLLER
-  MASTER CONTROLLER
-  EXISTING MASTER CONTROLLER
-  PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTOR
-  SAMPLING (SYSTEM) DETECTOR
-  PROPOSED INTERCONNECT CABLE NO. 62.5/125 24F MULTIMODE AND 12F SINGLE MODE
-  PROPOSED INTERCONNECT CABLE NO. 62.5/125 12F MULTIMODE AND 12F SINGLE MODE
-  EXISTING INTERCONNECT CABLE NO. 62.5/125 12C FIBER OPTIC CABLE
-  PROPOSED LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED
-  EXISTING LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED
-  PROPOSED TRACER CABLE NO. 14 1/C
-  EXISTING TRACER CABLE NO. 14 1/C
-  EXISTING TELEPHONE CONNECTION
-  PROPOSED TELEPHONE CONNECTION
-  PROPOSED ISDN CONNECTION
-  PROPOSED FIBER OPTIC CABLE 24 FIBERS, SINGLE MODE

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	2,332
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	76
HANDHOLE	EACH	5
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C	FOOT	8,564
DRILL EXISTING HANDHOLE	EACH	1
FIBER OPTIC CABLE 24 FIBERS, SINGLE MODE	FOOT	8,564



	DESIGNED - DG	REVISED -	LAKE COUNTY DIVISION OF TRANSPORTATION	FIBER SPLICING DIAGRAM WASHINGTON - HARYAN to IL83		ROUTE	SECTION	ROUTE SECTION	SHEET	SHEETS
	DRAWN - YM	REVISED -		SCALE: N/A						
	CHECKED - DG	REVISED -								
	DATE 04/16/2014	REVISED -								



DESIGNED - DG	REVISED -	LAKE COUNTY DIVISION OF TRANSPORTATION	CABINET DETAIL WASHINGTON - HARYAN to IL83		ROUTE	SECTION	ROUTE	SECTION	SHEET	SHEETS
DRAWN - YM	REVISED -		SCALE: N/A							
CHECKED - DG	REVISED -									
DATE 04/18/2014	REVISED -									

B Bollinger, Lach & Associates, Inc. ITASCA, ILLINOIS	USER NAME = erik	DESIGNED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
TRAFFIC SIGNAL DETAILS**

SCALE: N.T.S. SHEET NO. SGL 7 OF 15

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
187	11-00121-11-BR	LAKE	496	191
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

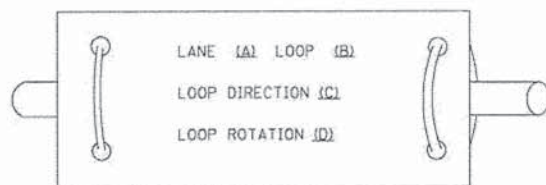
TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED																		
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE																					
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE																					
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA																					
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED																					
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F																					
UNINTERRUPTABLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F																					
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F																					
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F																					
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE																					
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED																					
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED																					
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED																					
SIGNAL POST				REMOVE ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED																					
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVED																					
GUY WIRE				ABANDON ITEM				INTERSECTION & SAMPLING (SYSTEM) DETECTOR																					
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR																					
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				QUEUE DETECTOR																					
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				PERFORMED QUEUE DETECTOR																					
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PERFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR																					
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				"RB" INDICATES REFLECTIVE BACKPLATE				PERFORMED SAMPLING (SYSTEM) DETECTOR																					
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				<h2 style="margin: 0;">RAILROAD SYMBOLS</h2> <table style="width: 100%; border: none;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;">EXISTING</th> <th style="width: 25%; text-align: center;">PROPOSED</th> </tr> </thead> <tbody> <tr> <td>RAILROAD CONTROL CABINET</td> <td></td> <td></td> </tr> <tr> <td>RAILROAD CANTILEVER MAST ARM</td> <td></td> <td></td> </tr> <tr> <td>FLASHING SIGNAL</td> <td></td> <td></td> </tr> <tr> <td>CROSSING GATE</td> <td></td> <td></td> </tr> <tr> <td>CROSSBUCK</td> <td></td> <td></td> </tr> </tbody> </table>					EXISTING	PROPOSED	RAILROAD CONTROL CABINET			RAILROAD CANTILEVER MAST ARM			FLASHING SIGNAL			CROSSING GATE			CROSSBUCK		
	EXISTING	PROPOSED																											
RAILROAD CONTROL CABINET																													
RAILROAD CANTILEVER MAST ARM																													
FLASHING SIGNAL																													
CROSSING GATE																													
CROSSBUCK																													
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED																									
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID																									
ILLUMINATED SIGN "NO LEFT TURN"				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER																									
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO INTERCONNECT																									
DETECTOR LOOP, TYPE I				RADIO REPEATER																									
PERFORMED DETECTOR LOOP				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED																									
MICROWAVE VEHICLE SENSOR				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)																									
VIDEO DETECTION CAMERA																													
VIDEO DETECTION ZONE																													
PAN, TILT, ZOOM CAMERA																													
WIRELESS DETECTOR SENSOR																													
WIRELESS ACCESS POINT																													

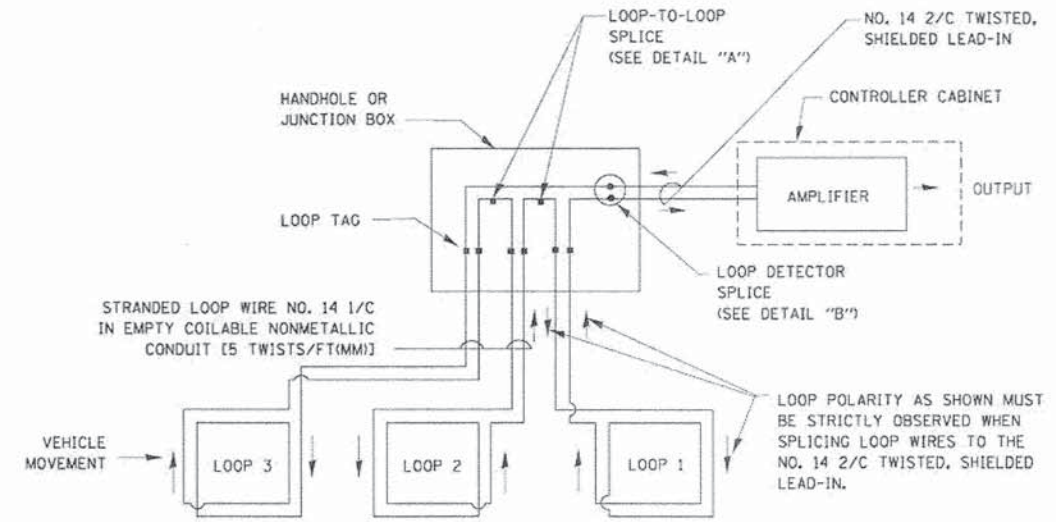
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. 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.
3. 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.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES 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.
6. 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.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

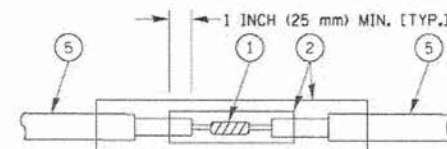


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

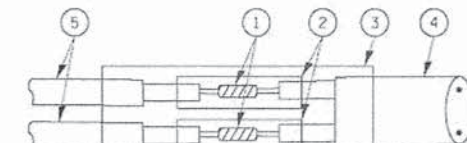


DETECTOR LOOP WIRING SCHEMATIC

- 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.

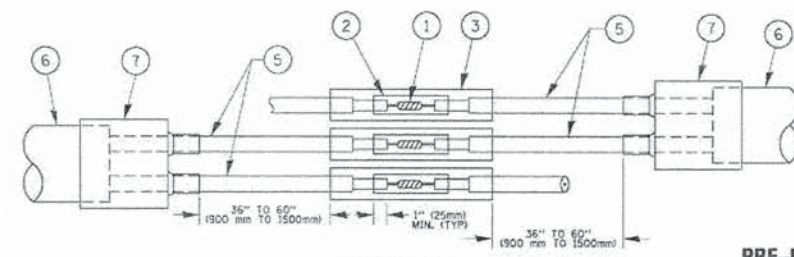


DETAIL "A"
LOOP-TO-LOOP SPLICE

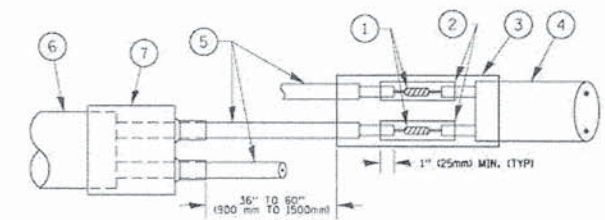


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

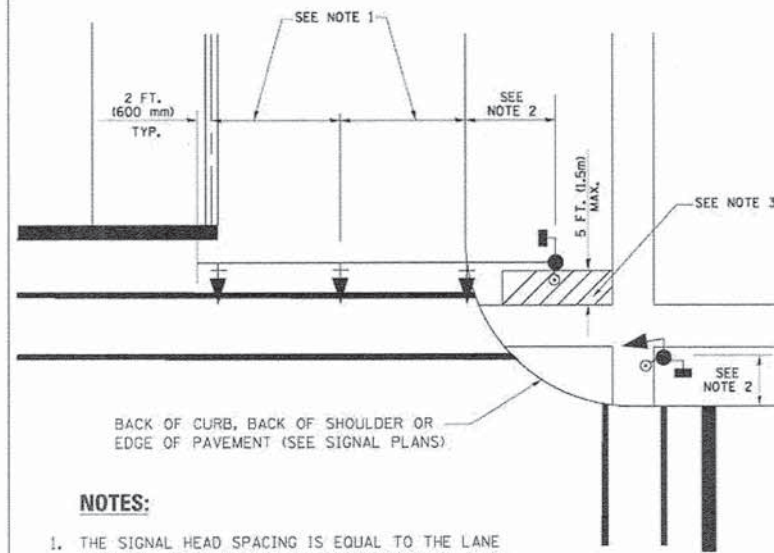
LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PREFORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

USER NAME = orik	DESIGNED - AL	REVISED -
PLOT CONFIG = #PLTORV5#	DRAWN - AL	REVISED -
PLOT SCALE = #SCALESHORT#	CHECKED - EO	REVISED -
PLOT DATE = 6/28/2014 2:41:26 PM	DATE - 06-30-2014	REVISED -

F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 193
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

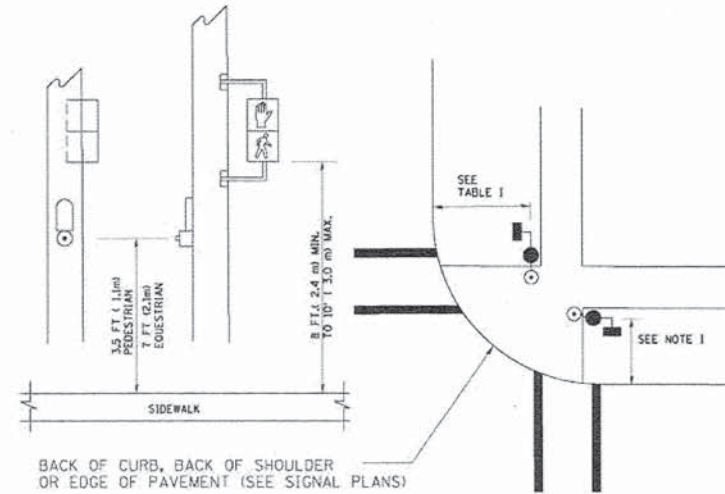
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

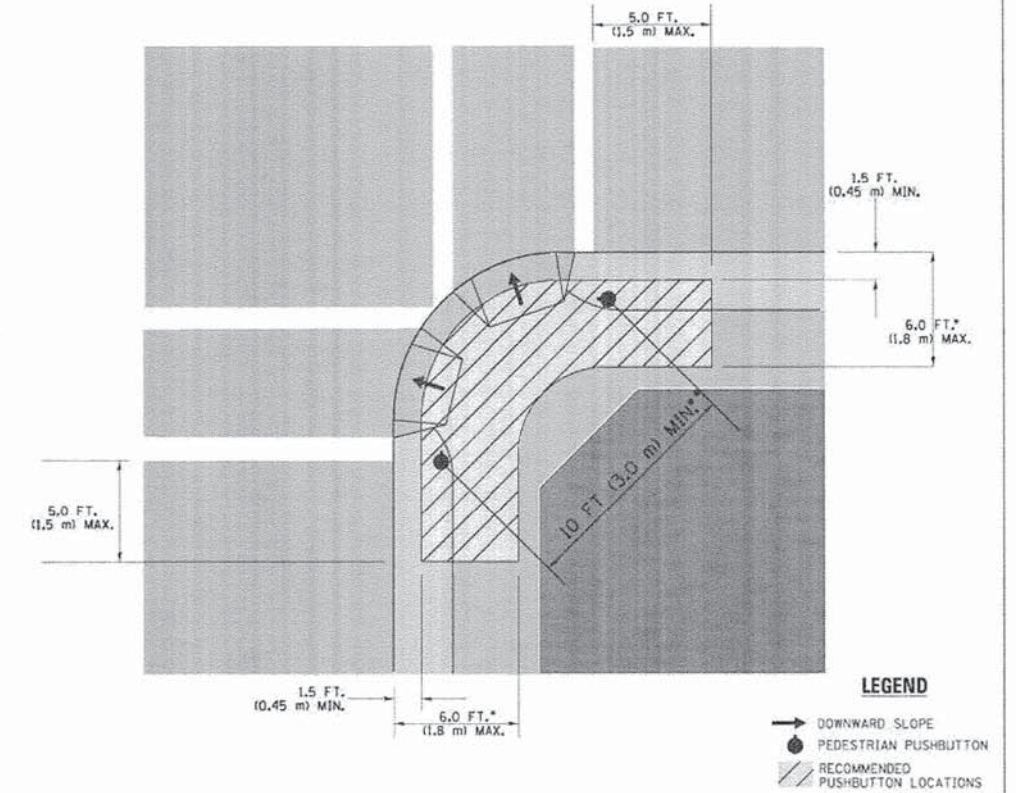
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

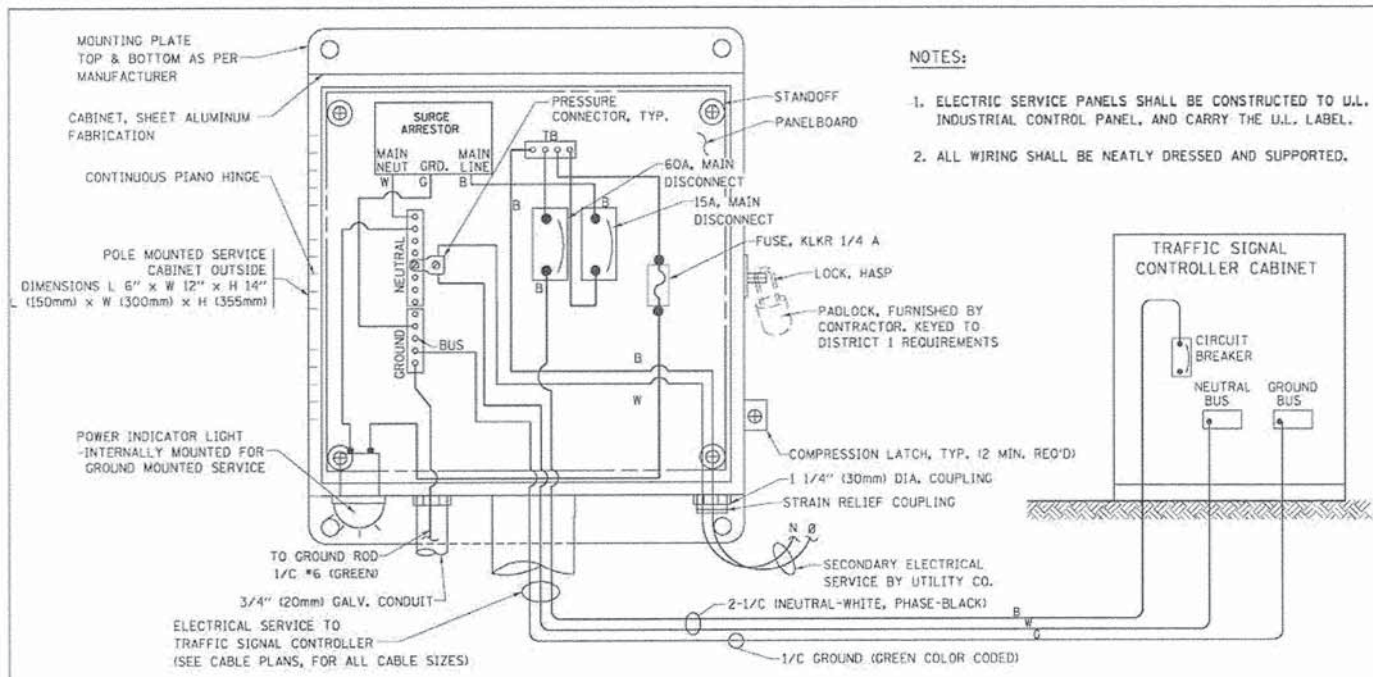
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

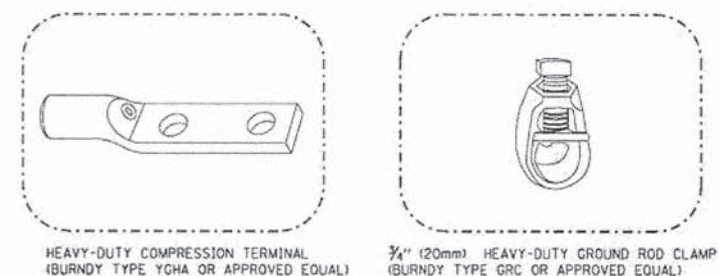
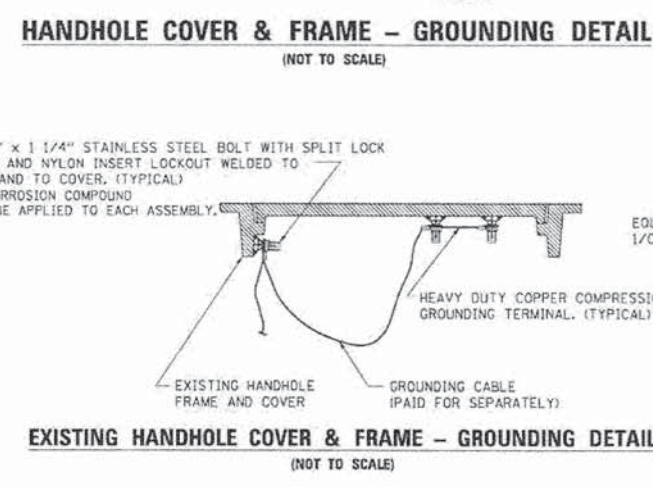
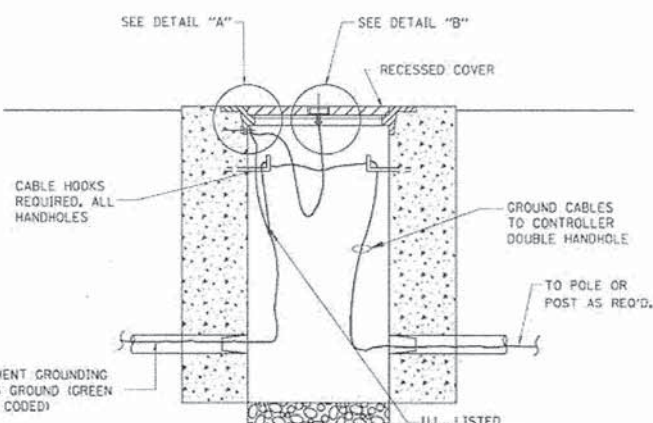
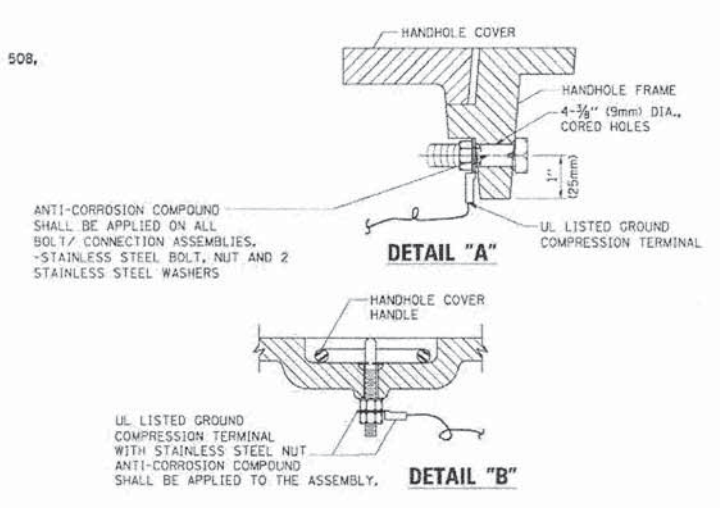
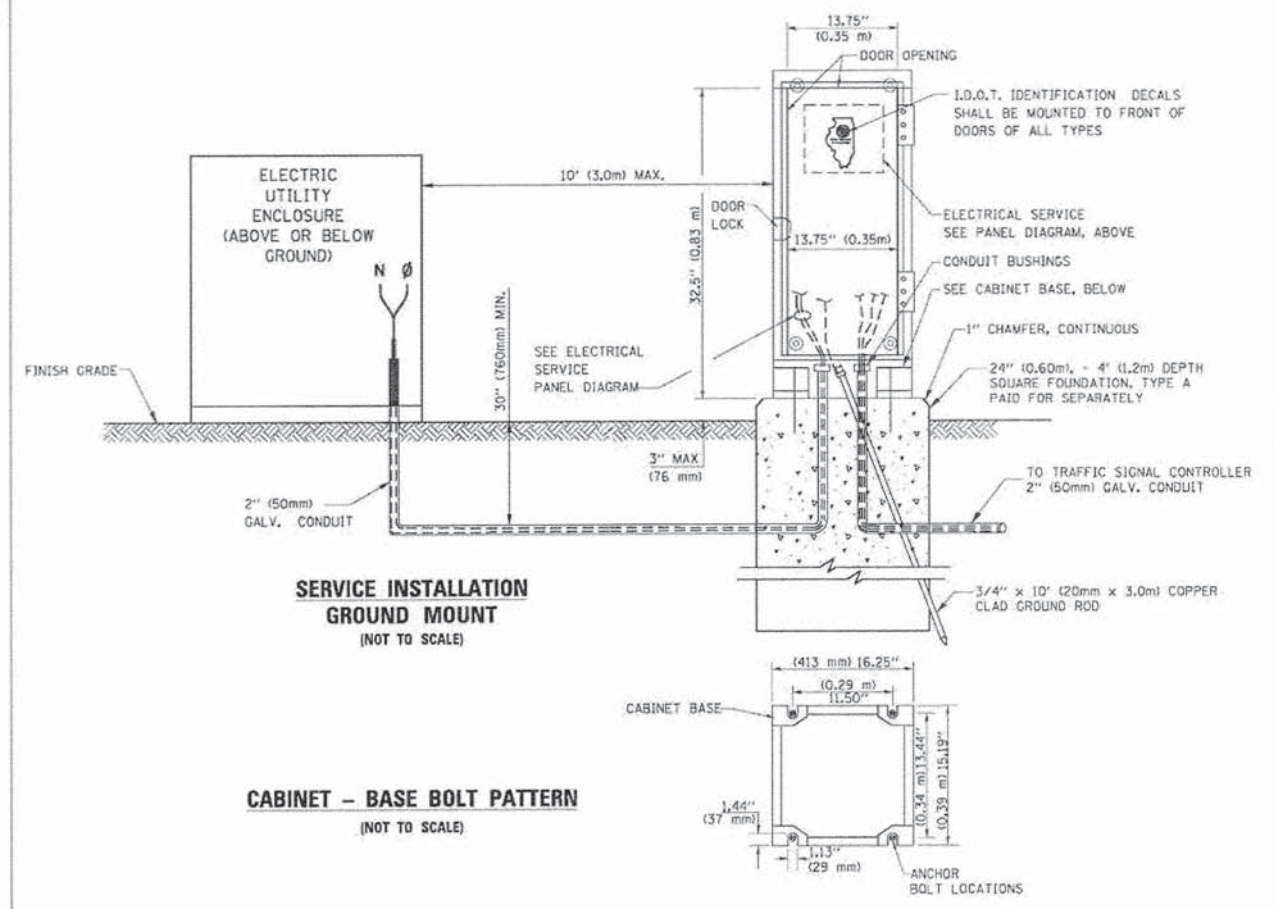
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

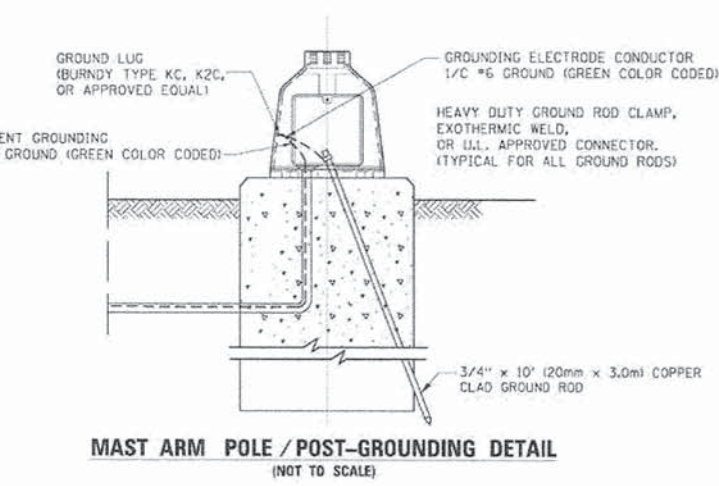
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

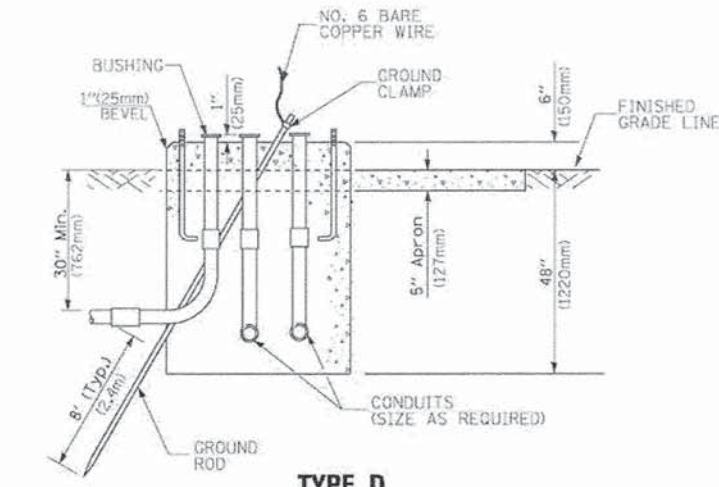
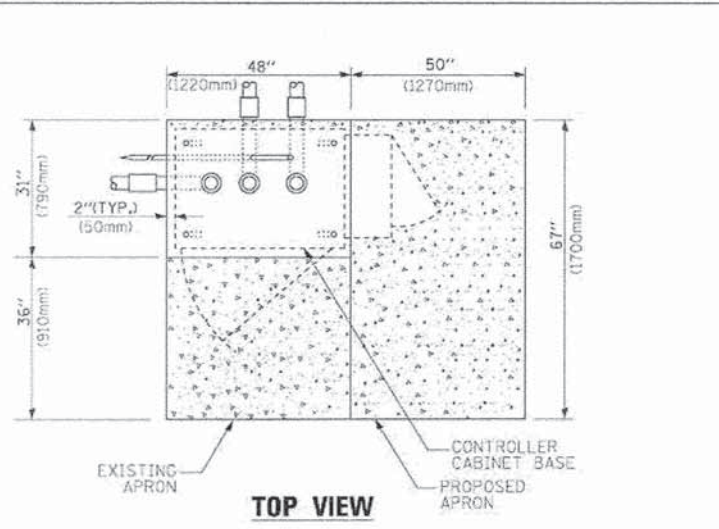


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)

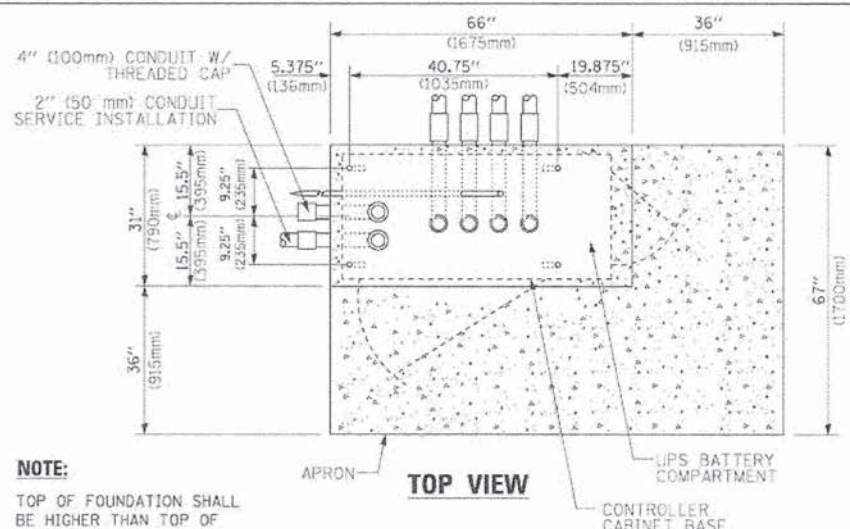


- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

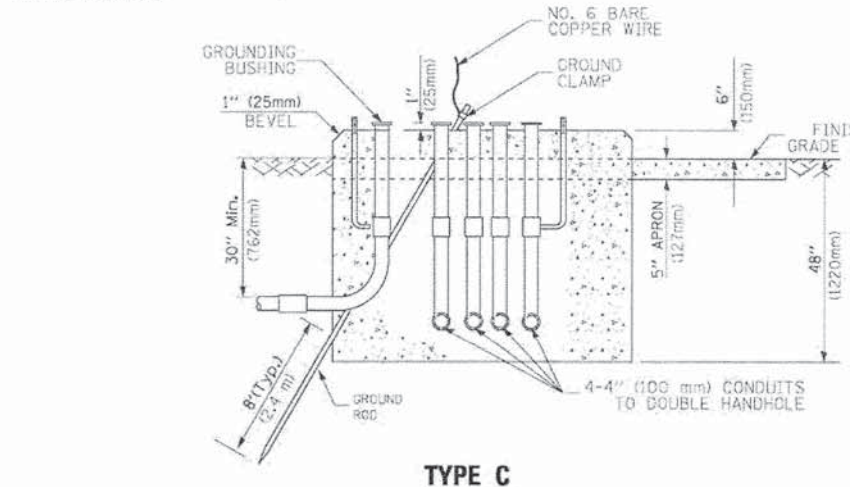




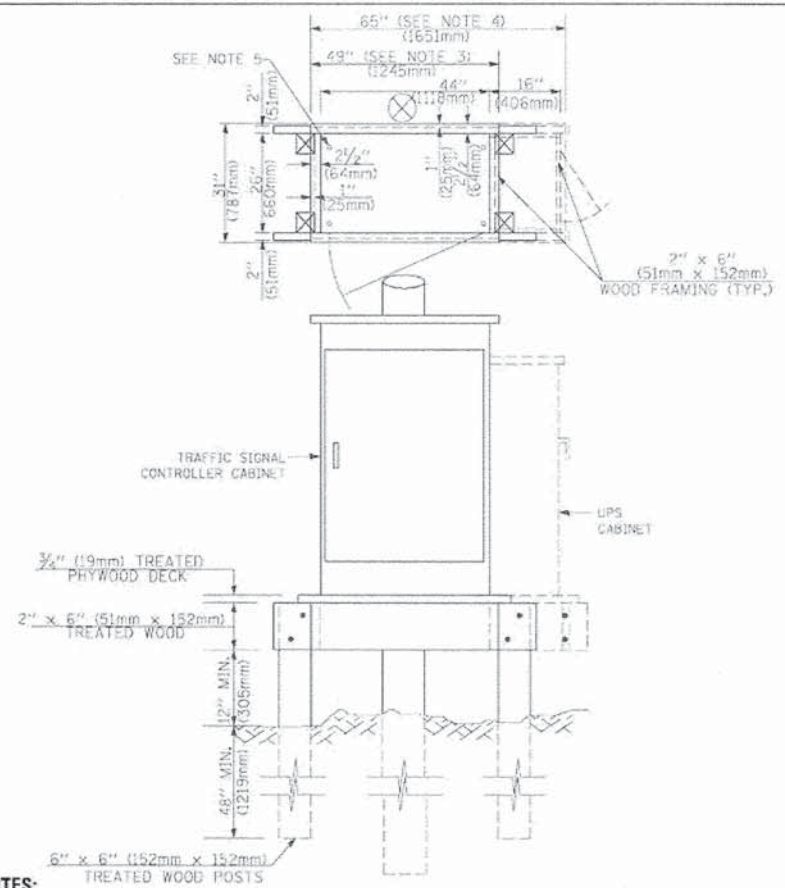
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



NOTE:
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



- NOTES:**
- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 - BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
 - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
 - DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
 - FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

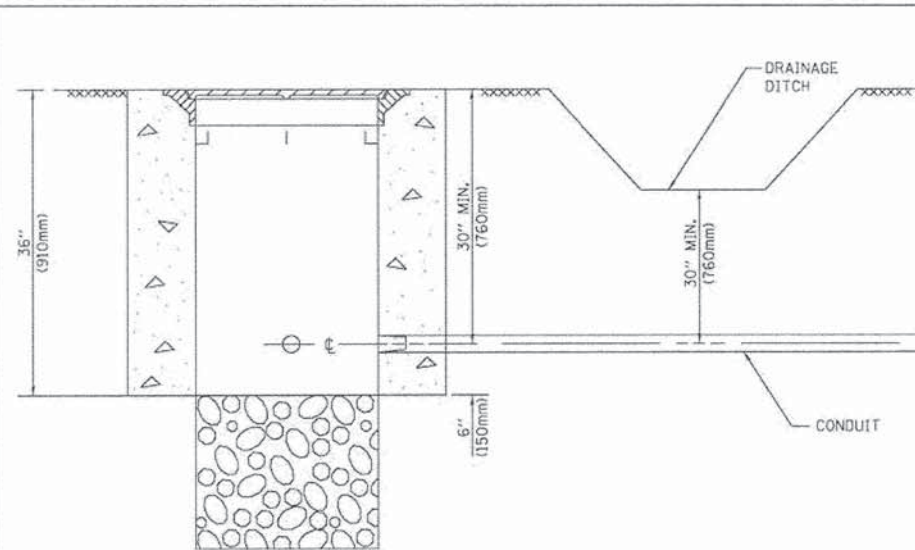
FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

MAST ARM LENGTH	FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 56' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

- NOTES:**
- These foundation depths are for sites which have cohesive soils (clay, silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
 - Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
 - Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
 - For mast arm assemblies with dual arms refer to state standard 878001.

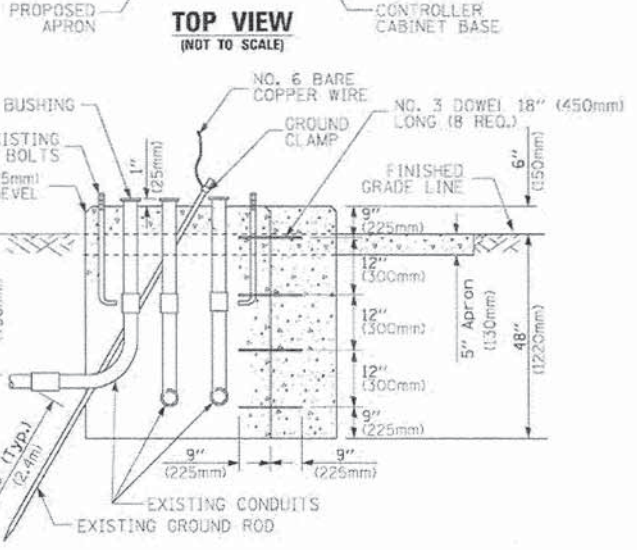
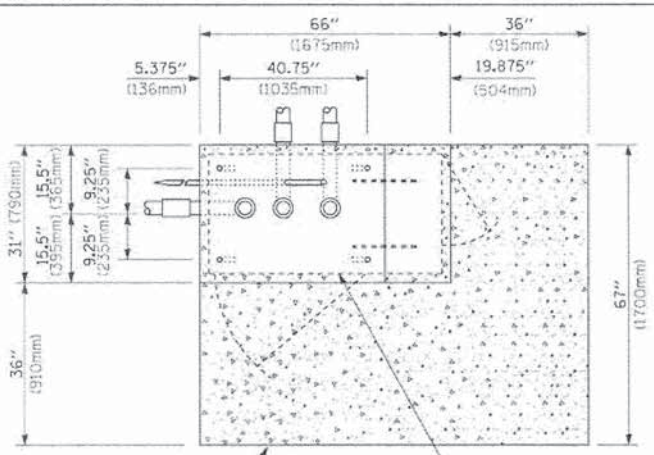
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)

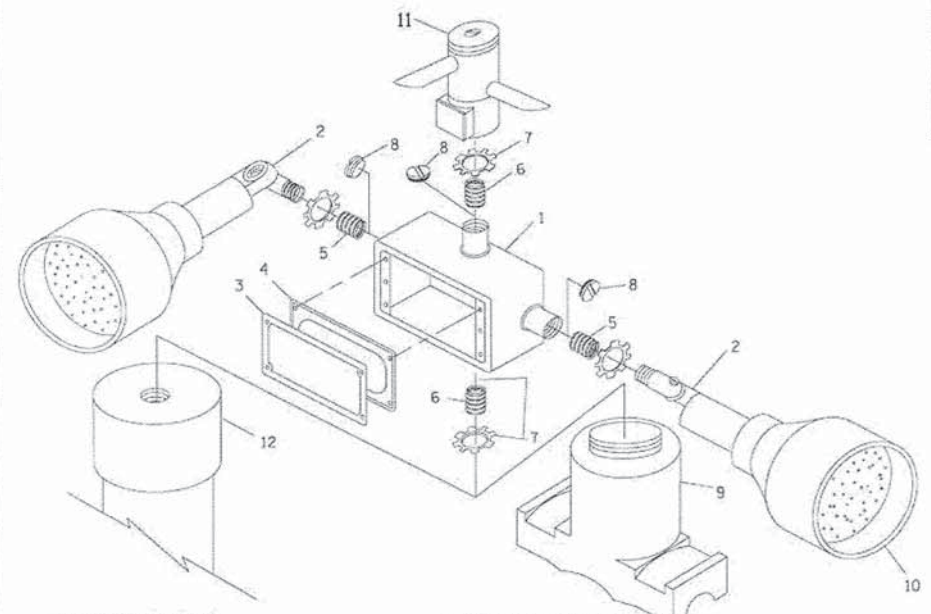


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

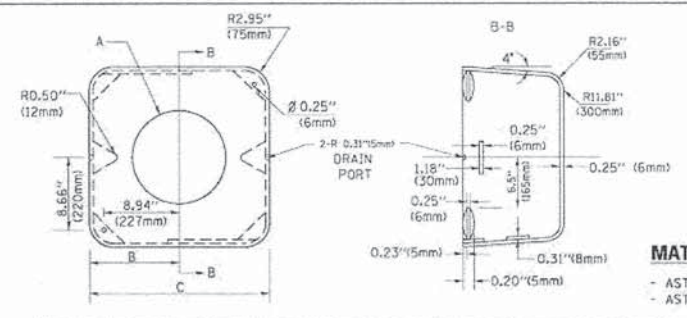
ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
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- OZ/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" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



POST CAP MOUNT **MAST ARM MOUNT**
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

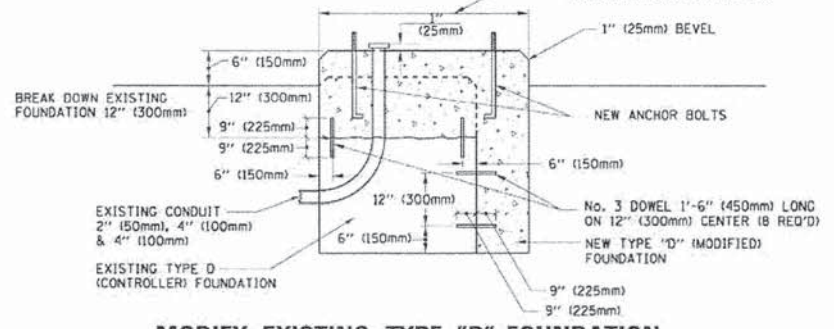
SHROUD

NOTES:

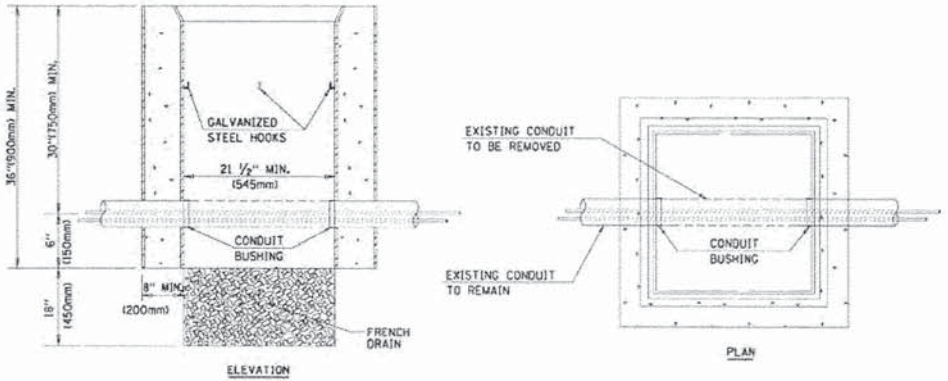
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

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



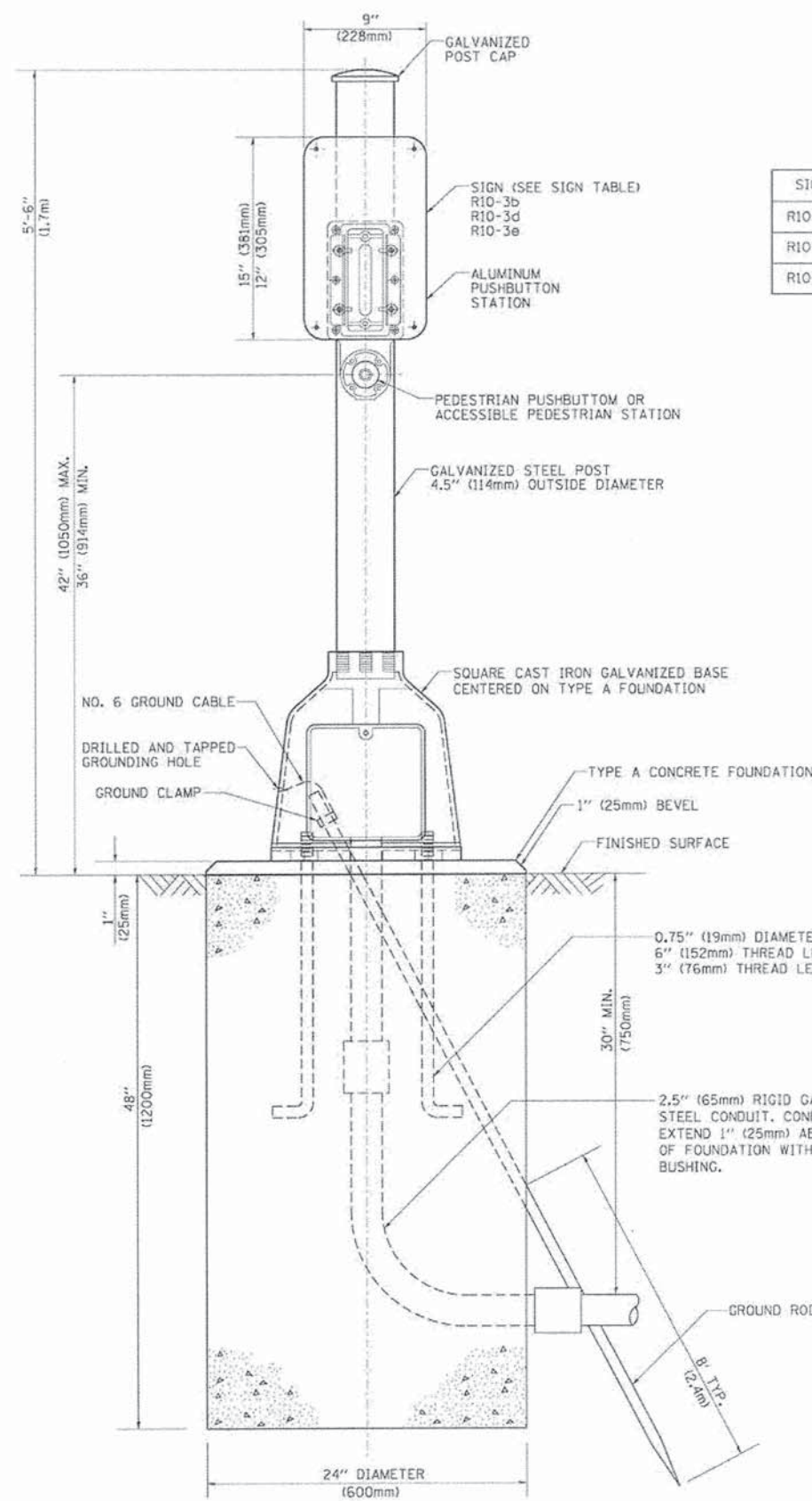
MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

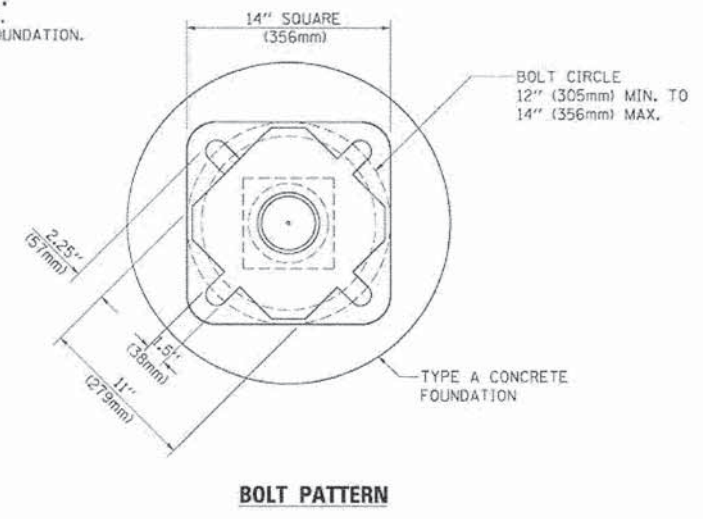
1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT



SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



BOLT PATTERN
PEDESTRIAN PUSH BUTTON POST, TYPE A

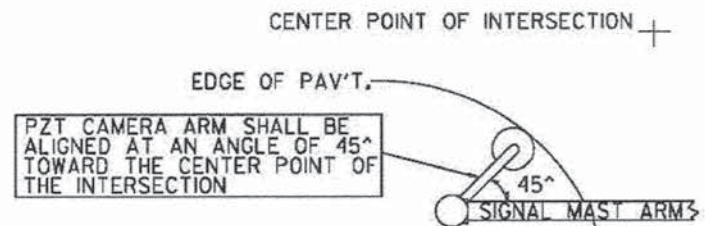
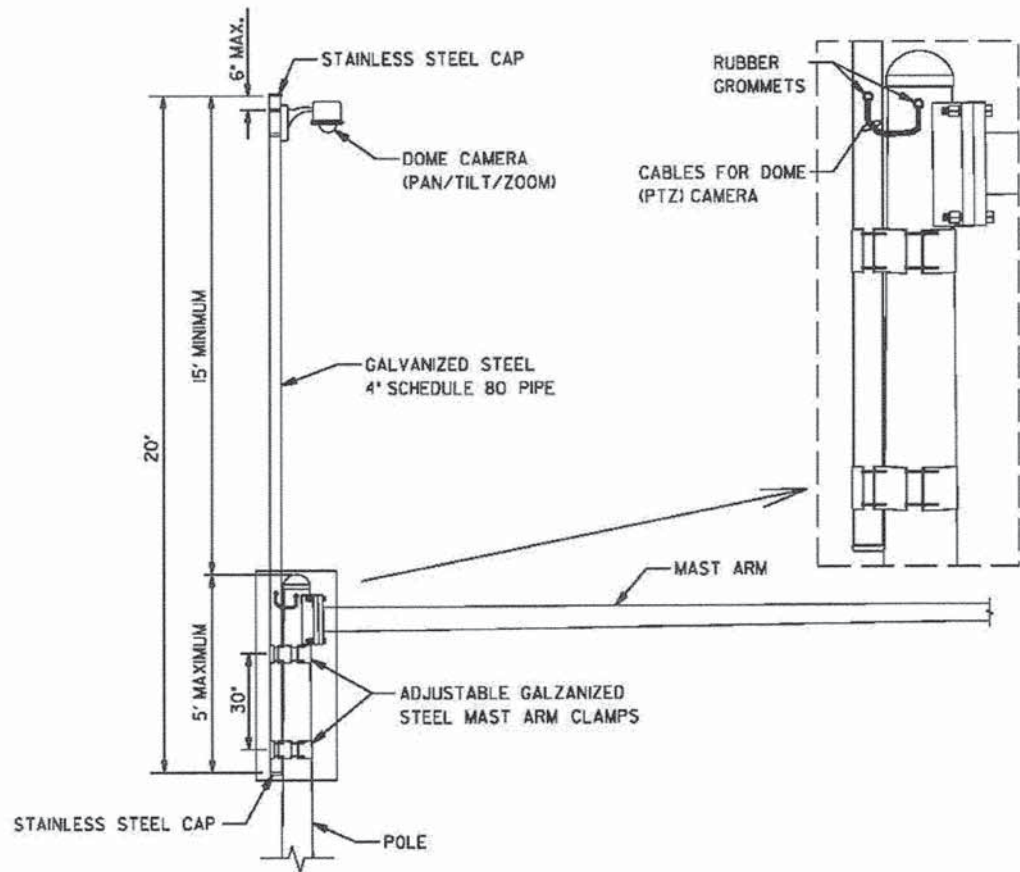


IMAGE SENSOR MOUNTING DETAILS

(NO SCALE)

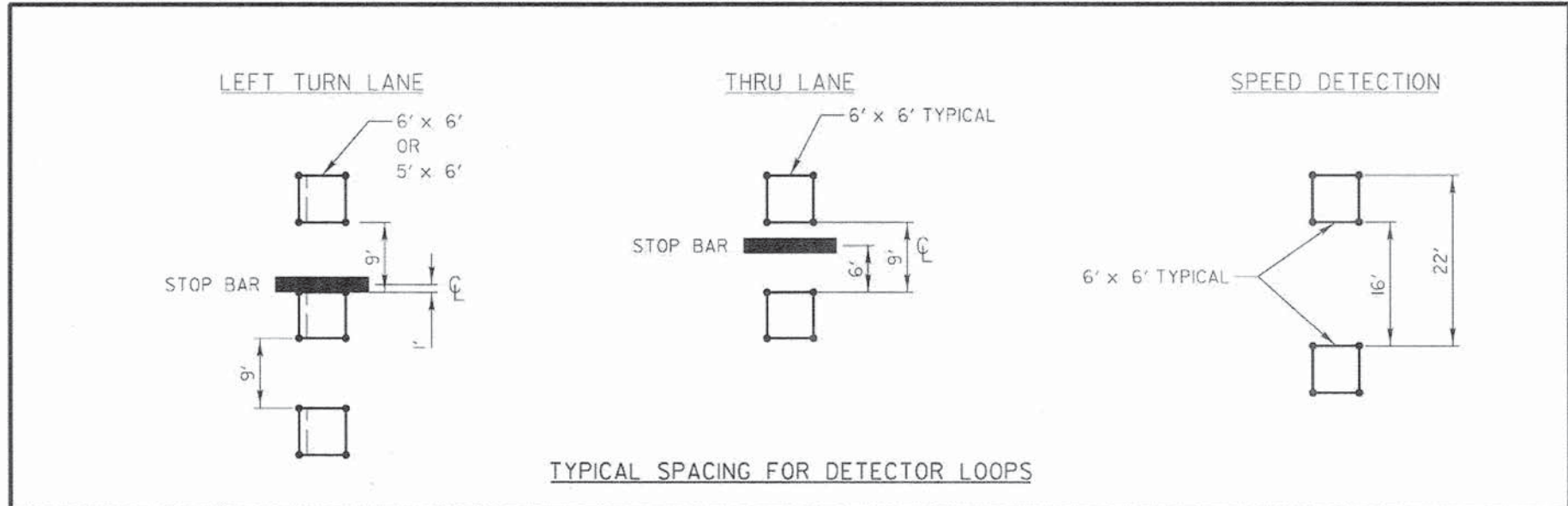


CAMERA MOUNTING ASSEMBLY DETAIL

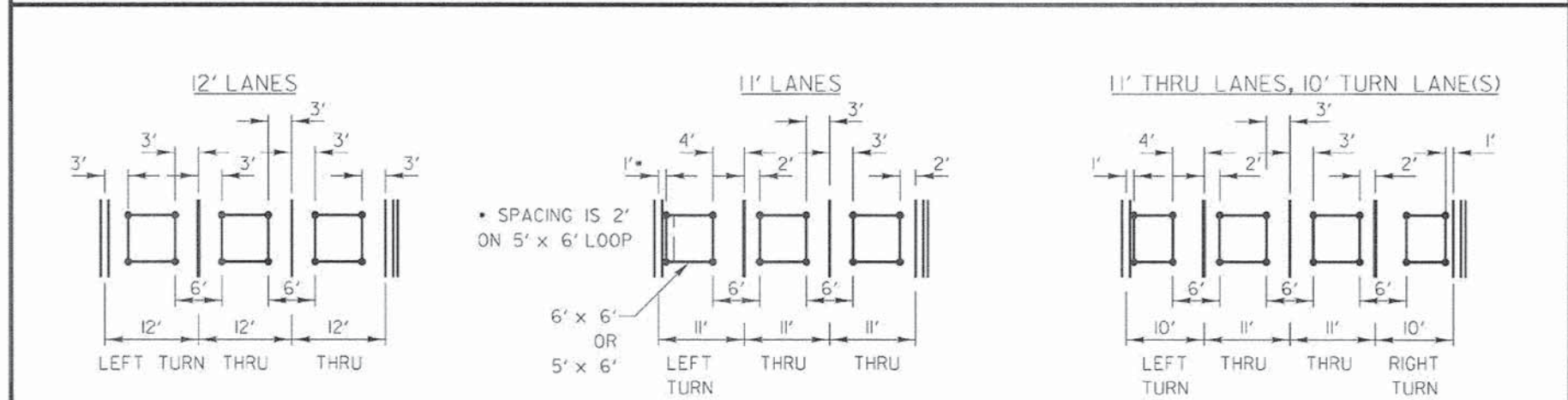
(NOT TO SCALE)

REVISIONS	DATE		APPROVED BY: A. KHAWAJA DATE: APRIL 1, 2007	LC8900
Mounting Details Revised	05/01/08			
2nd Camera Locat. added	01/14/09			

VIDEO DETECTION DETAILS



TYPICAL SPACING FOR DETECTOR LOOPS



TYPICAL LATERAL PLACEMENT FOR DETECTOR LOOPS

REVISIONS	DATE		APPROVED BY: A. KHAWAJA DATE: APRIL 1, 2007	LC8600

TYPICAL DETECTOR LOOP LAYOUTS

	USER NAME = orik	DESIGNED - AL	REVISED -
	PLOT CONFIG = #PLTDRVS#	DRAWN - AL	REVISED -
	PLOT SCALE = #SCALESHT#	CHECKED - EO	REVISED -
	PLOT DATE = 6/28/2014 2:49:41 PM	DATE - 06-30-2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

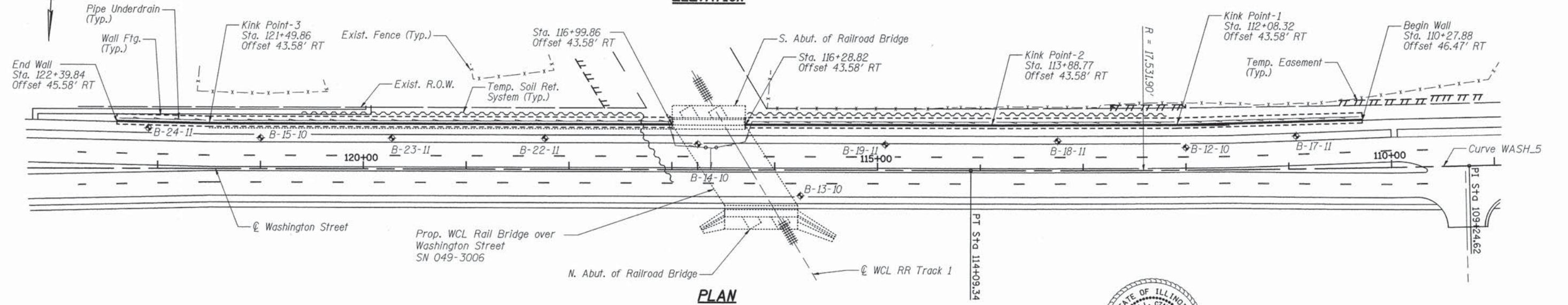
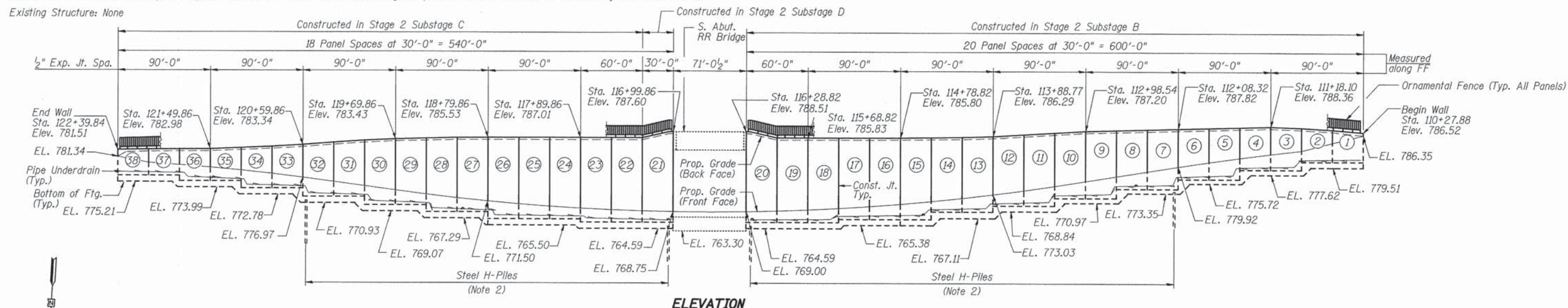
WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET
TRAFFIC SIGNAL DETAILS

SCALE: N.T.S. SHEET NO. SGL 15 OF 15

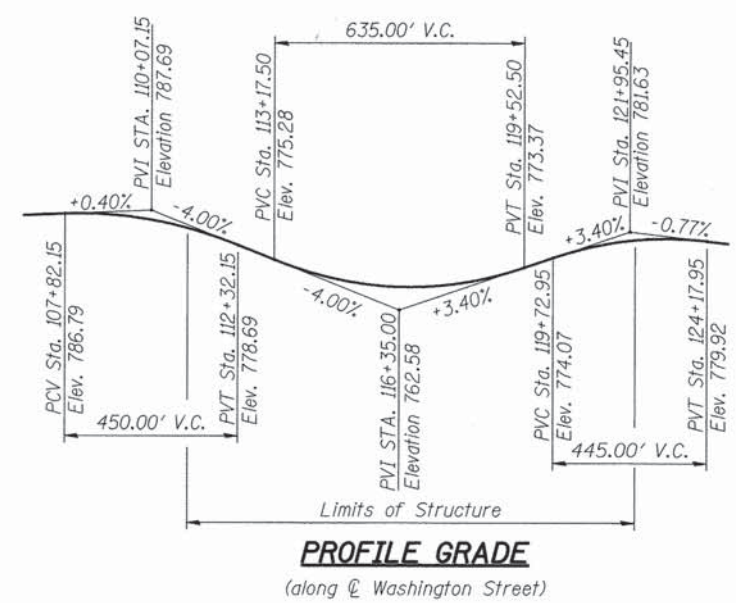
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
187	11-00121-11-BR	LAKE	496	199
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

Benchmark: A 3' rebar with a yellow topper, located 19.2' south of the south edge of pavement and 44.5' east of the easterly rail. Elev. 786.62

Existing Structure: None



PROP. CURVE WASH_5
 PI STA. = 109+24.62
 $\Delta = 3^\circ 10' 08''$ (RT)
 $D = 0^\circ 19' 37''$
 $R = 17,531.90'$
 $T = 484.96'$
 $L = 969.68'$
 $E = 6.71'$
 $e = \text{Normal Crown}$
 P.C. STA. = 104+39.65
 P.T. STA. = 114+09.34



GENERAL NOTES:

- All offsets are measured to the front face of the wall.
- For pile location, see Plan & Elevation sheets. For pile data, see Sheet STR 10 of 29.
- Due to the close proximity of houses to construction activities, vibrations shall be monitored during construction. The contractor shall take all necessary precautions to prevent vibrations. See Construction Vibration Monitoring Special Provision for additional information. Vibration monitoring limits extend from Station 111+00 to 121+50 along south edge of proposed improvement.
- The Contractor shall submit a soil retention system design sealed by an Illinois Licensed Structural Engineer including plan details and calculations for review and acceptance by the Engineer and the Railroad. Excavation support within the influence of railroad live load shall be designed per AREMA requirements and WCL standards for E-90 loading. Outlines shown are schematic and are to establish the general configuration of the system required.
- Reinforcement bars designated (E) shall be epoxy coated.
- For Temporary Soil Retention System at Panels 21 and 22, see Sheets STR 7 and S 5.



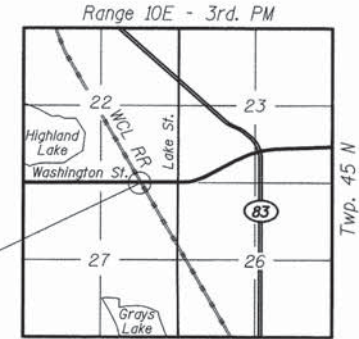
Sarah L. Czapliski
 SARAH L. CZAPLICKI, S.E. 10/7/2014
 NO. 081-006191
 EXP. DATE: 11/30/14

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications, 5th Ed. with 2010 Interims
 E-90 Railroad Live Load Surcharge

DESIGN STRESSES

FIELD STRESSES
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (Structural Steel)



LOCATION SKETCH

- LEGEND:**
- ◆ Soil Boring
 - Pipe Underdrain
 - ▤ Railroad Track
 - x-x- Exist. Fence
 - FF Front Face of Wall
 - BF Back Face of Wall

 PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME = jrefvik(rdwj) PLOT CONFIG = PDF(Greg_Large).plt PLOT SCALE = 1:49,9999 PLOT DATE = 10/8/2014	DESIGNED - JM CHECKED - SLC DRAWN - HH CHECKED - SLC	REVISED 10/7/2014 REVISED REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WASHINGTON STREET FROM HARYAN WAY TO LAKE STREET RETAINING WALL GENERAL PLAN AND ELEVATION	F.A.U. RTE. 187	SECTION 11-00121-11-BR	COUNTY LAKE	TOTAL SHEETS 496	SHEET NO. 200		
	SHEET NO. STR 1 OF 29						CONTRACT NO. 61A63					
	ILLINOIS FED. AID PROJECT											
	G:\L\CDOT\21158.004\Drawings\STRUCT\Wall\Wall1.GPE.dgn											