WATER MAIN CASING PIPES

WM-CP1
65 L.F. OF 36" STEEL CASING PIPE.
A MINIMUM OF 50 L.F. OF CASING TO BE INSTALLED BY AUGERING AND JACKING OR RAMMING, REMAINDER OF CASING CAN BE INSTALLED IN OPEN-CUT TRENCH.

WM-CP2
20 L.F. OF 36" STEEL CASING PIPE INSTALLED IN OPEN-CUT TRENCH.

WM-CP3
25 L.F. OF 36" STEEL CASING PIPE INSTALLED IN OPEN-CUT TRENCH.

WM-CP4
25 L.F. OF 36" STEEL CASING PIPE INSTALLED IN OPEN-CUT TRENCH.

WM-CP5
25 L.F. OF 36" STEEL CASING PIPE INSTALLED IN OPEN-CUT TRENCH UNDER 48" STORM SEWER.

WM-CP6
80 L.F. OF 30" STEEL CASING PIPE. A MINIMUM OF 50 L.F. OF CASING TO BE INSTALLED BY AUGERING AND JACKING OR RAMMING, REMAINDER OF CASING CAN BE INSTALLED IN OPEN-CUT TRENCH. (THIS 30" CASING WILL BE PAID FOR AS 36" CASING.)

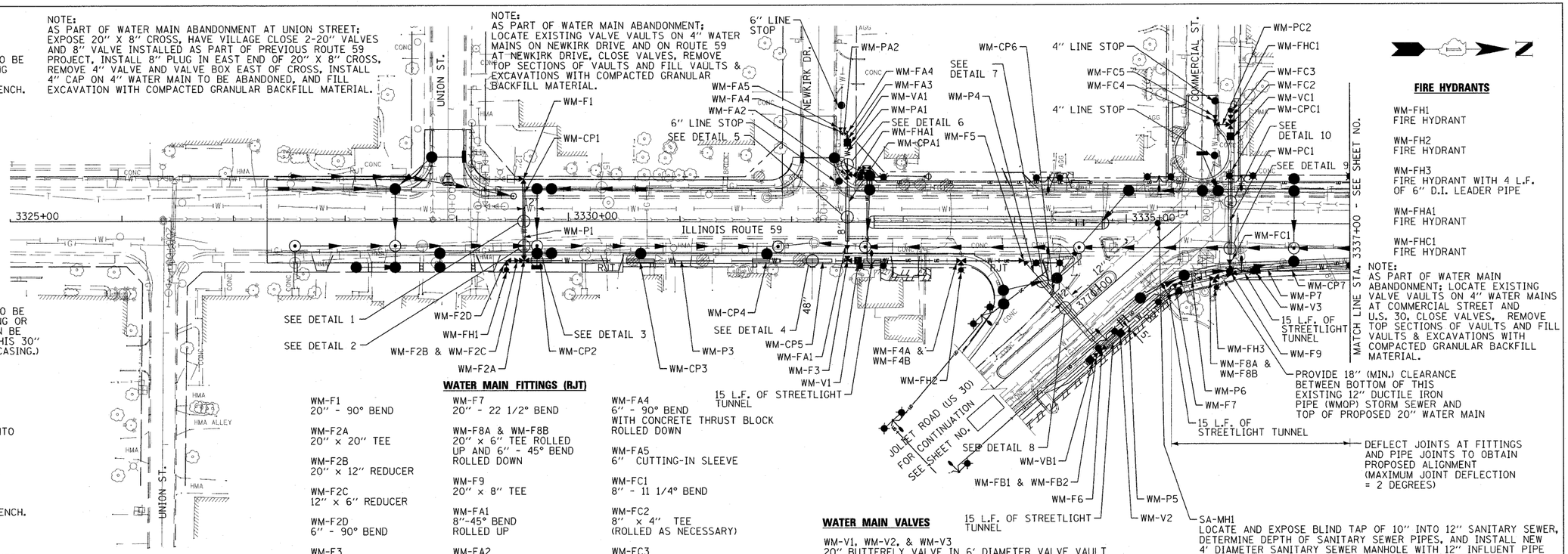
WM-CP7
25 L.F. OF 36" STEEL CASING PIPE INSTALLED IN OPEN-CUT TRENCH.

WM-CPA1
50 L.F. OF 24" STEEL CASING PIPE. AUGERED AND JACKED OR RAMMED INTO PLACE

WM-CPC1
75 L.F. OF 24" STEEL CASING PIPE. A MINIMUM OF 55 L.F. OF CASING TO BE INSTALLED BY BORING OR RAMMING, REMAINDER OF CASING CAN BE INSTALLED IN OPEN-CUT TRENCH.

NOTE:
AS PART OF WATER MAIN ABANDONMENT AT UNION STREET; EXPOSE 20" X 8" CROSS. HAVE VILLAGE CLOSE 2-20" VALVES AND 8" VALVE INSTALLED AS PART OF PREVIOUS ROUTE 59 PROJECT. INSTALL 8" PLUG IN EAST END OF 20" X 8" CROSS. REMOVE 4" VALVE AND VALVE BOX EAST OF CROSS, INSTALL 4" CAP ON 4" WATER MAIN TO BE ABANDONED, AND FILL EXCAVATION WITH COMPACTED GRANULAR BACKFILL MATERIAL.

NOTE:
AS PART OF WATER MAIN ABANDONMENT; LOCATE EXISTING VALVE VAULTS ON 4" WATER MAINS ON NEWKIRK DRIVE AND ON ROUTE 59 AT NEWKIRK DRIVE. CLOSE VALVES, REMOVE TOP SECTIONS OF VAULTS AND FILL VAULTS & EXCAVATIONS WITH COMPACTED GRANULAR BACKFILL MATERIAL.



WATER MAIN PIPE

WM-P1
150 L.F. OF 20" WATER MAIN (RJT)

WM-P2
NOT USED

WM-P3
350 L.F. OF 20" WATER MAIN

WM-P4
130 L.F. OF 20" WATER MAIN (RJT)

WM-P5
55 L.F. OF 20" WATER MAIN

WM-P6
50 L.F. OF 20" WATER MAIN (RJT)

WM-P7
140 L.F. OF 20" WATER MAIN

WM-PA1
110 L.F. OF 8" WATER MAIN (RJT)

WM-PA2
5 L.F. OF 6" WATER MAIN (RJT)

WM-PC1
130 L.F. OF 8" WATER MAIN (RJT)

WM-PC2
15 L.F. OF 4" WATER MAIN (RJT)

WATER MAIN FITTINGS (RJT)

WM-F1
20" - 90° BEND

WM-F2A
20" x 20" TEE

WM-F2B
20" x 12" REDUCER

WM-F2C
12" x 6" REDUCER

WM-F2D
6" - 90° BEND

WM-F3
20" x 8" TEE ROLLED DOWN

WM-F4A & WM-F4B
20" x 6" TEE ROLLED UP AND 6" - 45° BEND ROLLED DOWN

WM-F5
20" - 45° BEND

WM-F6
20" x 20" TEE

WM-F7
20" - 22 1/2° BEND

WM-F8A & WM-F8B
20" x 6" TEE ROLLED UP AND 6" - 45° BEND ROLLED DOWN

WM-F9
20" x 8" TEE

WM-FA1
8"-45° BEND ROLLED UP

WM-FA2
8"X 6" TEE

WM-FA3
8" x 6" REDUCER

WM-FA4
6"-90° BEND ROLLED UP

WM-FA4
6" - 90° BEND WITH CONCRETE THRUST BLOCK ROLLED DOWN

WM-FA5
6" CUTTING-IN SLEEVE

WM-FC1
8" - 11 1/4° BEND

WM-FC2
8" x 4" TEE (ROLLED AS NECESSARY)

WM-FC3
8" x 6" REDUCER

WM-FC4
4" - 90° BEND WITH CONCRETE THRUST BLOCK (ROLLED AS NECESSARY)

WM-FC5
4" CUTTING-IN SLEEVE

WATER MAIN VALVES

WM-V1, WM-V2, & WM-V3
20" BUTTERFLY VALVE IN 6' DIAMETER VALVE VAULT WITH ECCENTRIC CONE. LOCATE ECCENTRIC CONE WITH OPENING CENTERED OVER VALVE OPERATING NUT. LOCATE OUTSIDE LIMITS OF STREETLIGHT TUNNEL.

WM-VA1 & WM-VC1
8" GATE VALVE IN 4' DIAMETER VALVE VAULT

FIRE HYDRANTS

WM-FH1
FIRE HYDRANT

WM-FH2
FIRE HYDRANT

WM-FH3
FIRE HYDRANT WITH 4 L.F. OF 6" D.I. LEADER PIPE

WM-FHA1
FIRE HYDRANT

WM-FHC1
FIRE HYDRANT

SA-MH1
LOCATE AND EXPOSE BLIND TAP OF 10" INTO 12" SANITARY SEWER, DETERMINE DEPTH OF SANITARY SEWER PIPES, AND INSTALL NEW 4' DIAMETER SANITARY SEWER MANHOLE WITH 12" INFLUENT PIPE FLOWING FROM SOUTHEAST TO 12" EFFLUENT PIPE FLOWING NORTHWEST AND 10" INFLUENT PIPE FLOWING FROM SOUTH.

NOTE:

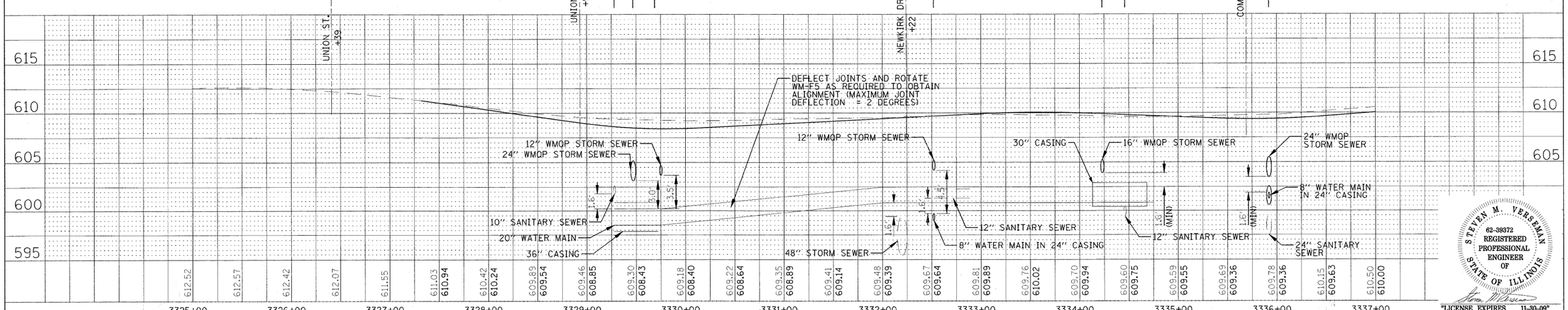
INSTALL 20" WATER MAIN, WM-F8, WM-F9 AND WM-V3 DEEP ENOUGH TO PROVIDE 18" (MIN) CLEARANCE BETWEEN TOP OF 8" WATER MAIN (WM-PC1 AND WM-CPC1) AND BOTTOM OF PROPOSED 12" DI STORM SEWER.

PROVIDE 18" (MIN.) CLEARANCE BETWEEN BOTTOM OF THIS EXISTING 12" DUCTILE IRON PIPE (WMOP) STORM SEWER AND TOP OF PROPOSED 20" WATER MAIN

DEFLECT JOINTS AT FITTINGS AND PIPE JOINTS TO OBTAIN PROPOSED ALIGNMENT (MAXIMUM JOINT DEFLECTION = 2 DEGREES)

NOTE:
AS PART OF WATER MAIN ABANDONMENT; LOCATE EXISTING VALVE VAULTS ON 4" WATER MAINS AT COMMERCIAL STREET AND U.S. 30, CLOSE VALVES, REMOVE TOP SECTIONS OF VAULTS AND FILL VAULTS & EXCAVATIONS WITH COMPACTED GRANULAR BACKFILL MATERIAL.

50 0 50 100
HORIZONTAL SCALE: 1"=50'-0"
5 0 5 10
VERTICAL SCALE: 1"=5'-0"



62-39372
REGISTERED PROFESSIONAL ENGINEER
OF
STATE OF ILLINOIS
"LICENSE EXPIRES 11-30-09"

FILE NAME =	USER NAME = 560kw	DESIGNED - SMV	REVISED - 10-01-08
i:\pfldv\061256-rt59-water\41-design north	section\dgn\plainfield_il rt 59_b&w watermain_63203-wm2.dgn	DRAWN - KAS	REVISED -
	PLOT SCALE = 49.9999 ' / IN.	CHECKED - SMV	REVISED -
	PLOT DATE = 1/5/2009	DATE - 06-13-08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 59
WATER MAIN PLAN AND PROFILE

SCALE: | SHEET NO. 3 OF 8 SHEETS | STA. 3325+00 | TO STA. 3337+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	113 N-2	WILL	260	118
		CONTRACT NO. 60E73		
FED. ROAD DIST. NO.	ILLINOIS	FAP 338 (IL RTE. 59)		