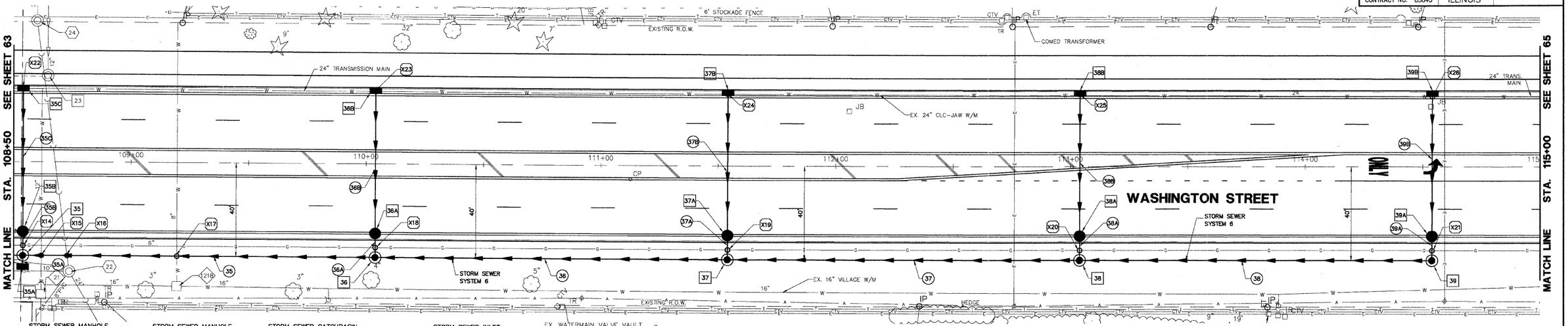
F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1223	00-00047-00-FP	LAKE	180	64
DRAINAGE – STA 108+50 TO 115+00				
CONTRACT NO. 83845	ILLINOIS			



STORM SEWER MANHOLE (35)
TY 'A' 48"ø TY 1 FR & CL
RIM: 737.31 INV: 733.55
12" N,S INV: 733.65
15" E INV: 733.80
STA: 108+54 O/S: 40'R

STORM SEWER INLET (35A)
TY 'A' 24"ø TY 8 GR
RIM: 736.00 INV: 733.80
STA: 108+54 O/S: 47'R

STORM SEWER CATCHBASIN (35B)
TY 'A' 48"ø TY 24 FR & GR
RIM: 737.26 INV: 733.75
STA: 108+54 O/S: 30'R

STORM SEWER INLET (35C)
TY 'A' 24"ø TY 24 FR & GR
RIM: 737.26 INV: 734.37
STA: 108+54 O/S: 31'L

STORM SEWER MANHOLE (36)
TY 'A' 48"ø TY 1 FR & CL
RIM 741.05 INV: 736.20
12" N,E INV: 736.36
STA: 110+04 O/S: 40'R

STORM SEWER CATCHBASIN (36A)
TY 'A' 48"ø TY 24 FR & GR
RIM: 740.71 INV: 736.45
STA: 110+04 O/S: 30'R

STORM SEWER INLET (36B)
TY 'A' 24"ø TY 24 FR & GR
RIM: 740.71 INV: 737.07
STA: 110+04 O/S: 31'L

STORM SEWER MANHOLE (37)
TY 'A' 48"ø TY 1 FR & CL
RIM: 746.28 INV: 741.31
12" N,E INV: 741.40
STA: 111+54 O/S: 40'R

STORM SEWER CATCHBASIN (37A)
TY 'A' 48"ø TY 24 FR & GR
RIM: 745.52 INV: 741.50
STA: 111+54 O/S: 30'R

STORM SEWER INLET (37B)
TY 'A' 24"ø TY 24 FR & GR
RIM: 745.52 INV: 742.12
STA: 111+54 O/S: 31'L

STORM SEWER MANHOLE (38)
TY 'A' 48"ø TY 1 FR & CL
RIM: 751.23 INV: 745.54
STA: 113+04 O/S: 40'R

STORM SEWER CATCHBASIN (38A)
TY 'A' 48"ø TY 24 FR & GR
RIM: 750.47 INV: 745.65
STA: 113+04 O/S: 30'R

STORM SEWER INLET (38B)
TY 'A' 24"ø TY 24 FR & GR
RIM: 750.47 INV: 746.27
STA: 113+04 O/S: 31'L

STORM SEWER MANHOLE (39)
TY 'A' 48"ø TY 1 FR & CL
RIM: 754.68 INV: 749.80
STA: 114+54 O/S: 40'R

STORM SEWER CATCHBASIN (39A)
TY 'A' 48"ø TY 24 FR & GR
RIM 754.68 INV: 749.70
STA: 114+54 O/S: 30'R

STORM SEWER INLET (39B)
TY 'A' 24"ø TY 24 FR & GR
RIM: 754.68 INV: 750.32
STA: 114+54 O/S: 32'L

EX. WATERMAIN VALVE VAULT (21)
RIM: 736.46 T/WM: 729.86
STA: 108+62 O/S: 57'R

EX. WATERMAIN VALVE VAULT (1218)
RIM: 737.74 T/WM: 730.39
STA: 109+20 O/S: 53'R

EX. SANITARY MANHOLE (22)
RIM: 737.07 INV: 723.97
W INV: 724.37 SW INV: 727.27
STA:108+74 O/S: 47'R

EX. SANITARY MANHOLE (24)
RIM: 735.84 INV: 724.19
24" N INV: 724.24
STA: 108+60 O/S: 60'L

EX. STORM MANHOLE (23)
RIM: 737.38 INV: 732.83
12" N INV: 732.88
108+64 O/S: 37'L

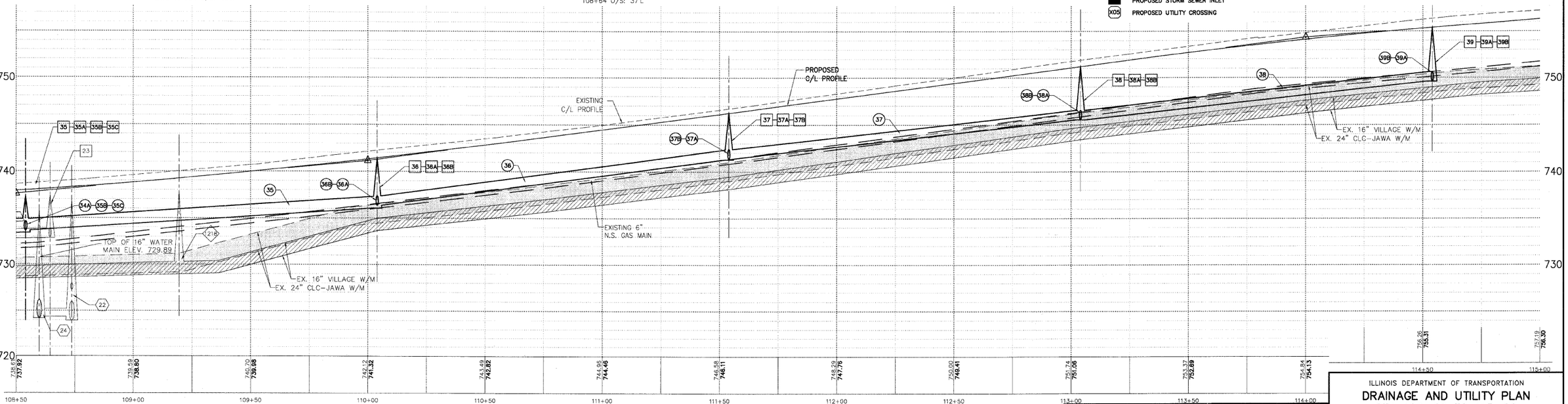
35A	5 LF 12" SS, CL A, TY 1, @ 3.00%, TBF 0.9 CY	37	150 LF 12" SS, CL A, TY 1, @ 2.76%, TBF 65.3 CY
35B	9 LF 12" SS, CL A, TY 1, @ 1.00%, TBF 1.3 CY	38A	9 LF 12" SS, CL A, TY 1, @ 1.22%, TBF 3.9 CY
35C	62 LF 12" SS, CL A, TY 1, @ 1.00%, TBF 3.7 CY	38B	62 LF 12" SS, CL A, TY 1, @ 1.00%, TBF 12.2 CY
35	150 LF 15" SS, CL A, TY 1, @ 1.60%, TBF 0.0 CY	38	150 LF 12" SS, CL A, TY 1, @ 2.70%, TBF 65.9 CY
36A	9 LF 12" SS, CL A, TY 1, @ 1.00%, TBF 3.2 CY	39A	10 LF 12" SS, CL A, TY 1, @ 1.00%, TBF 4.1 CY
36B	62 LF 12" SS, CL A, TY 1, @ 1.00%, TBF 8.7 CY	39B	62 LF 12" SS, CL A, TY 1, @ 1.00%, TBF 13.2 CY
36	150 LF 12" SS, CL A, TY 1, @ 3.30%, TBF 0.0 CY		
37A	9 LF 12" SS, CL A, TY 1, @ 1.11%, TBF 3.1 CY		
37B	62 LF 12" SS, CL A, TY 1, @ 1.00%, TBF 7.0 CY		

DRAINAGE & UTILITY PLAN LEGEND
- (5) EXISTING SANITARY STRUCTURE
- EXISTING SANITARY SEWER
- (9) EXISTING WATERMAIN STRUCTURE
- W EXISTING WATERMAIN
- (23) EXISTING STORM SEWER STRUCTURE
- EXISTING STORM SEWER
- (37) PROPOSED STORM SEWER STRUCTURE
- PROPOSED STORM SEWER
- 37A PROPOSED STORM SEWER PIPE
- PROPOSED STORM SEWER MANHOLE
- PROPOSED STORM SEWER CATCHBASIN
- PROPOSED STORM SEWER INLET
- X05 PROPOSED UTILITY CROSSING

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20ft.

N

NOTE:
OFFSETS PROVIDED ARE FROM CENTER LINE TO CENTER LINE OF STRUCTURE.



STORM OVER GAS B/STORM = 733.50 T/GAS = 732.50	X14	STORM OVER WATER B/STORM = 734.65 T/WATER = 732.65	X17	GAS OVER STORM B/GAS = 747.95 T/STORM = 746.95	X20	INLET OVER WATER B/INLET = 736.40 T/WATER = 734.40	X23
STORM OVER WATER B/STORM = 733.70 T/WATER = 731.90	X15	GAS OVER STORM B/GAS = 738.80 T/STORM = 737.80	X18	GAS OVER STORM B/GAS = 752.00 T/STORM = 751.00	X21	INLET OVER WATER B/INLET = 741.90 T/WATER = 739.90	X24
STORM OVER SANITARY B/STORM = 733.90 T/SANITARY = 726.50	X16	GAS OVER STORM B/GAS = 743.80 T/STORM = 742.80	X19	INLET OVER WATER B/INLET = 733.70 T/WATER = 731.70	X22	INLET OVER WATER B/INLET = 745.55 T/WATER = 743.55	X25
						INLET OVER WATER B/INLET = 749.60 T/WATER = 747.60	X26

PLANS PREPARED BY:
GEWALT HAMILTON ASSOCIATES, INC.
Consulting Engineers & Surveyors
850 Forest Edge Drive
Vernon Hills, IL 60061
(847) 478-9700
(847) 478-9701 Fax

REVISIONS	
NAME	DATE
REV.-1 IDOT COMMENTS	02-03-06
REV.-2 PLANS STAGED	06-02-06
REV.-5 PRE-FINAL SUB	02-20-09
PS&S SUBMITTAL	04-10-09

ILLINOIS DEPARTMENT OF TRANSPORTATION
DRAINAGE AND UTILITY PLAN STA 108+50 TO 115+00
PROPOSED ROADWAY RECONSTRUCTION WASHINGTON STREET

SCALE: H: 1"=20' V:1"=5'
DATE: 10-05-04
DRAWN BY: CGP
DESIGNED BY: TPG
CHECKED BY: BLS

3081223-MISC-PNT.dwg