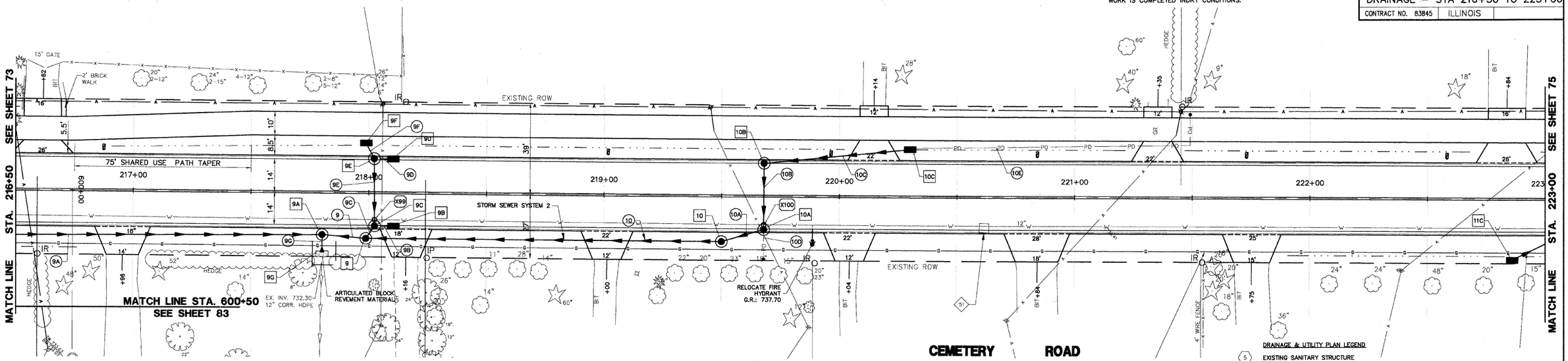
F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2903	00-00047-00-FP	LAKE	180	74
DRAINAGE – STA 216+50 TO 223+00				
CONTRACT NO. 83845	ILLINOIS			

CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE, SPECIFICALLY AT THE PROFILE LOW POINTS. RIP RAP SEDIMENT BASINS, TEMPORARY DITCHING, TEMPORARY UNDERDRAINS SHALL BE USED TO FACILITATE POSITIVE DRAINAGE AWAY FROM THE PROPOSED AGGREGATE SUBGRADE. IT IS RECOMMENDED THAT THE PROPOSED CULVERT EXTENSION WORK IS COMPLETED INDRY CONDITIONS.



STORM SEWER MANHOLE 9A
TY 'A' 60"ø TY 1 FR & CL
RIM: 735.50 E INV: 732.33
18" S INV: 732.35
18" N INV: 732.35
STA: 217+80 O/S: 18.2'R

24" RCP FLARED END SECTION 9G
INV: 732.30
STA: 217+80 O/S: 25.0'R

STORM SEWER INLET 9F
TY 'A' 24"ø TY 1 FR & OL
RIM: 735.00 INV: 732.57
STA: 217+99 O/S: 20'L

STORM SEWER MANHOLE 9E
TY 'A' 48"ø TY 11 FR & GR
RIM: 734.98 INV: 732.50
STA: 218+02 O/S: 14'L

STORM SEWER INLET 9D
TY 'A' 24"ø TY 11 FR & GR
RIM: 734.99 INV: 732.58
STA: 218+10 O/S: 14'L

STORM SEWER MANHOLE 9C
TY 'A' 48"ø TY 11 FR & GR
RIM: 734.98 15" E&W INV: 732.43
12" N INV: 732.45
STA: 218+02 O/S: 14'R

STORM SEWER INLET 9B
TY 'A' 24"ø TY 11 FR & GR
RIM: 734.99 INV: 732.50
STA: 218+10 O/S: 14'R

STORM SEWER MANHOLE 9
TY 'A' 60"ø TY 1 FR & CL
RIM: 735.70 INV: 732.40
12" N INV: 732.52
STA: 217+99 O/S: 20'R

STORM SEWER MANHOLE 10
TY 'A' 48"ø TY 8 GR
RIM: 736.25 12" S INV: 733.28
12" N INV: 733.34
STA: 219+50 O/S: 20'R

STORM SEWER MANHOLE 10A
TY 'A' 48"ø TY 11 FR & GR
RIM: 737.41 12" SE INV: 734.10
12" W INV: 734.13
STA: 219+68 O/S: 14'R

STORM SEWER MANHOLE 10B
TY 'A' 48"ø TY 11 FR & GR
RIM: 737.71 INV: 734.41
STA: 219+68 O/S: 14'L

STORM SEWER INLET 10C
TY 'A' 24"ø TY 8 GR
RIM: 738.50 INV: 735.03
STA: 220+30 O/S: 20'L

STORM SEWER INLET 11C
TY 'A' 24"ø TY 8 GR
RIM: 737.40 INV: 735.40
STA: 222+87 O/S: 26'R

ADJUST 51
EX. W/M VALVE VAULT
RIM: 739.43 T/P: 733.43 12"
STA: 220+62 O/S: 14'R

9A	145 LF 18" SS, CL A, TY 1, @ 0.17%, TBF 0.4 CY	
9	18 LF 18" SS, DIP, CL 52, @ 0.27%, TBF 0.4 CY	
9G	8 LF 24" SS, CL A, TY 1, @ 0.50%, TBF 0.0 CY	
9F	7 LF 12" SS, CL A, TY 1, @ 1.00%, TBF 2.7 CY	
9D	8 LF 12" SS, CL A, TY 1, @ 1.00%, TBF 0.6 CY	
9E	28 LF 12" SS, DIP, CL 52, @ 0.25%, TBF 2.2 CY	
9C	5 LF 15" SS, CL A, TY 1, @ 0.50%, TBF 0.7 CY	
9B	8 LF 12" SS, CL A, TY 1, @ 0.50%, TBF 0.6 CY	
10	151 LF 12" SS, CL A, TY 1, @ 0.50%, TBF 36.6 CY	
10A	19 LF 12" SS, CL A, TY 1, @ 4.00%, TBF 4.0 CY	
10B	28 LF 12" SS, CL A, TY 1, @ 1.00%, TBF 2.9 CY	
10C	62 LF 12" SS, CL A, TY 1, @ 1.00%, TBF 14.6 CY	
10D	12 LF 4" SS, PVC SDR 35, @ 1.00%, TBF 0.3 CY	
10E	132 LF 4" SS, PVC SDR 35, @ 1.00%, TBF 2.9 CY	

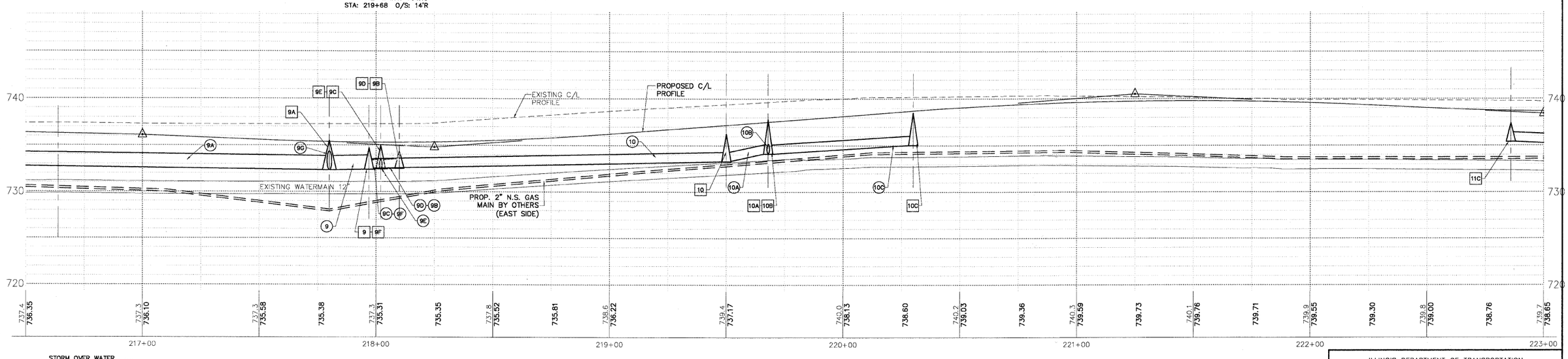
NOTE: ALL CURB INLET FRAMES ON CEMETERY ROAD AND TRI STATE PARKWAY SHALL BE IDOT TYPE 11 FRAME AND GRATE, WITH THE FISH LOGO AND "DUMP NO WASTE DRAINS TO RIVER" IMPRINTED ON THE TOP.

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

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.



STORM OVER WATER (X99)
B/STM = 732.10
T/WATER = 729.80

STORM OVER WATER (X100)
B/STM = 734.00
T/WATER = 731.90

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 216+50 TO 223+00

PROPOSED ROADWAY WIDENING AND INTERSECTION IMPROVEMENTS CEMETERY ROAD

SCALE: H: 1"=20' V: 1"=5'
DATE: 10-05-04

DRAWN BY: CGP
DESIGNED BY: TPG
CHECKED BY: BLS

S:\83\175-4704-PM1.dwg