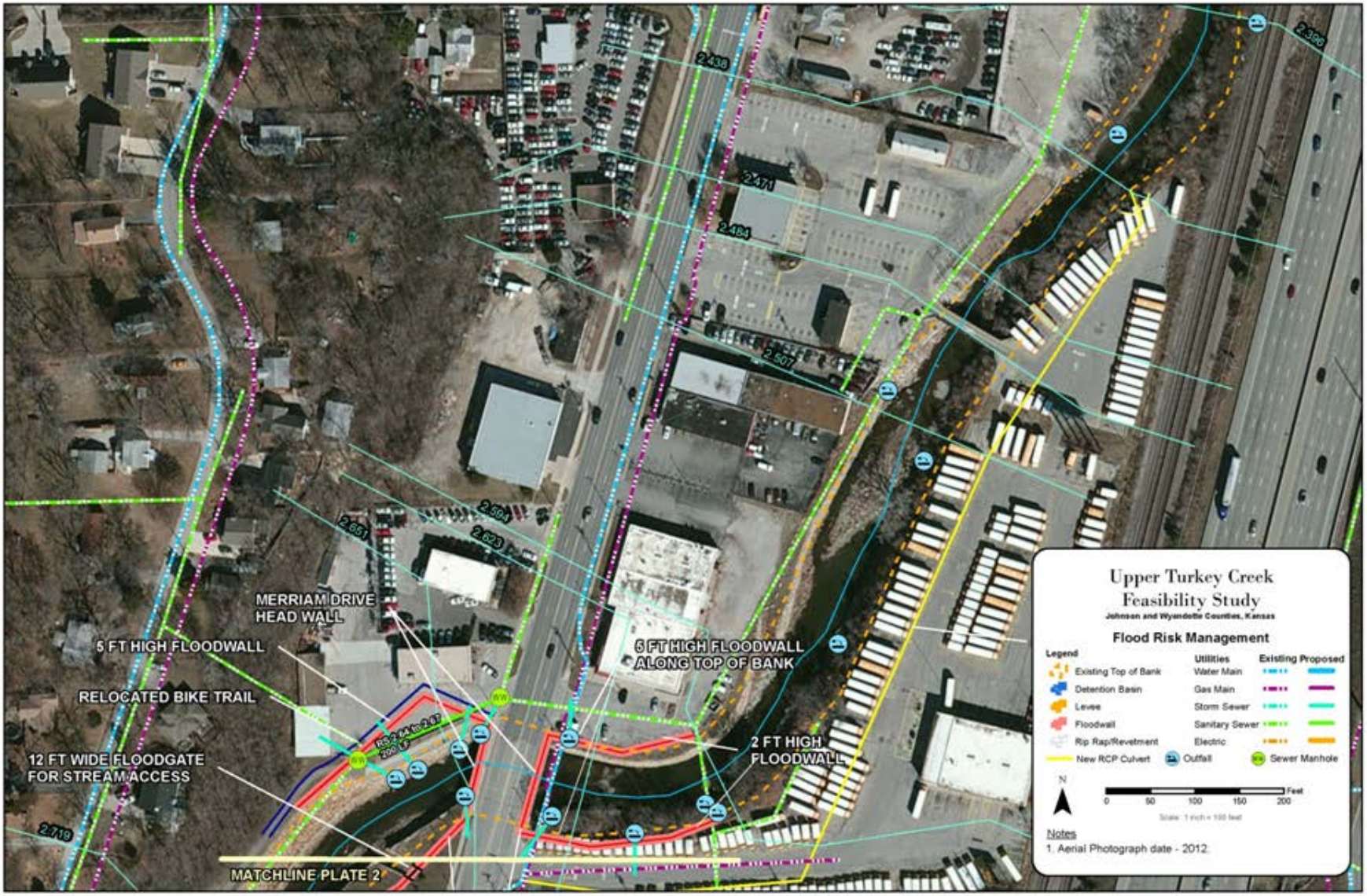

MERRIAM DRIVE
HEAD WALL
5 FT HIGH FLOODWALL
RELOCATED BIKE TRAIL
12 FT WIDE FLOODGATE
FOR STREAM ACCESS
MATCHLINE PLATE 2
5 FT HIGH FLOODWALL
ALONG TOP OF BANK
2 FT HIGH
FLOODWALL
2.438
2.471
2.484
2.507
2.504
2.623
2.661
2.719
2.386
Upper Turkey Creek
Feasibility Study
Johnson and Wyandotte Counties, Kansas
Flood Risk Management
Legend
Existing Top of Bank
Detention Basin
Levee
Floodwall
Rip Rap/Revetment
New RCP Culvert
Utilities
Existing Proposed
Water Main
Gas Main
Storm Sewer
Sanitary Sewer
Electric
Outfall
Sewer Manhole
N
0 50 100 150 200 Feet
Notes
1. Aerial Photograph date - 2012.

PLATE 1

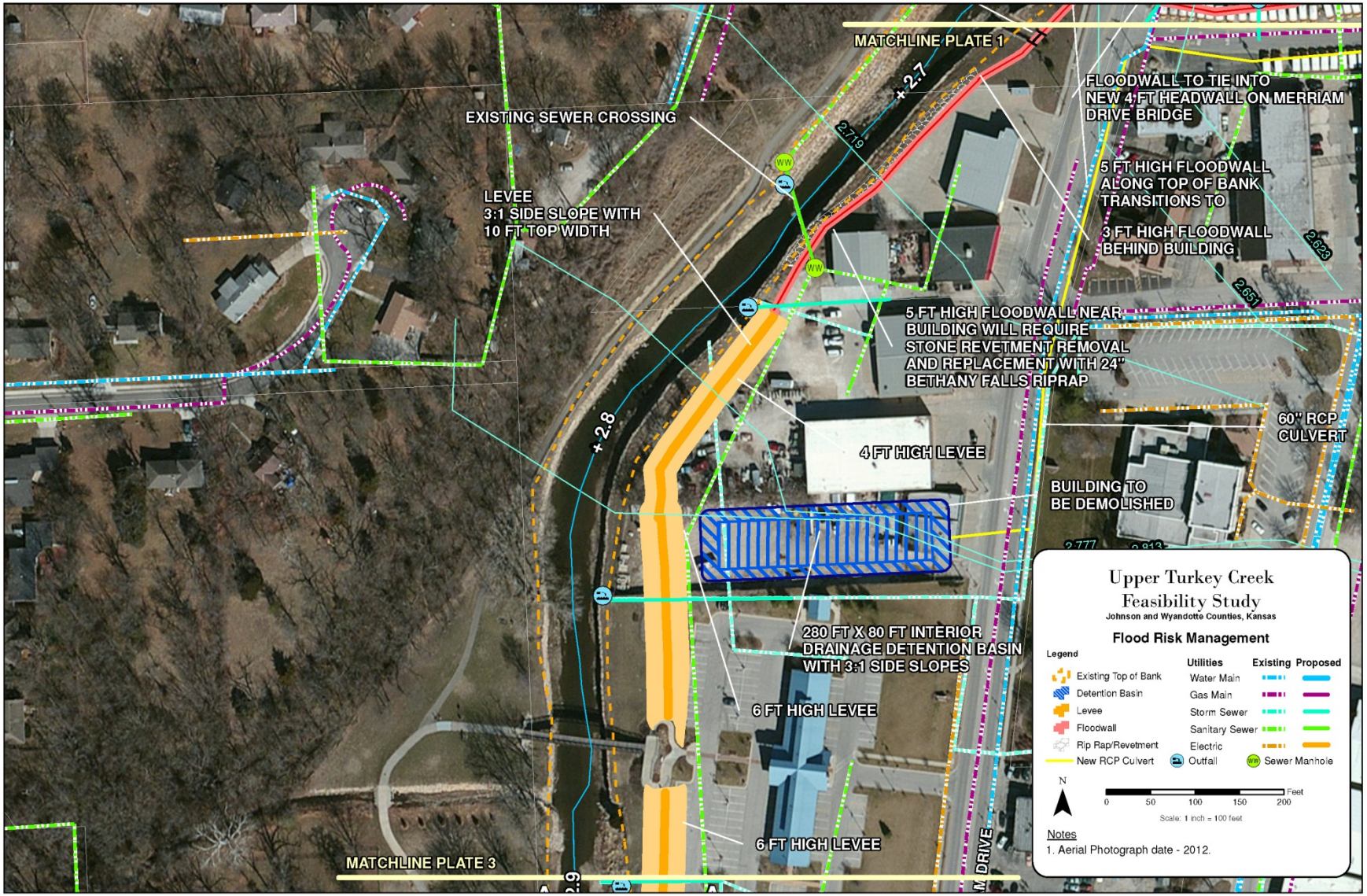

MATCHLINE PLATE 1
EXISTING SEWER CROSSING
LEVEE
3:1 SIDE SLOPE WITH
10 FT TOP WIDTH
FLOODWALL TO TIE INTO
NEW 4 FT HEADWALL ON MERRIAM
DRIVE BRIDGE
5 FT HIGH FLOODWALL
ALONG TOP OF BANK
TRANSITIONS TO
3 FT HIGH FLOODWALL
BEHIND BUILDING
5 FT HIGH FLOODWALL NEAR
BUILDING WILL REQUIRE
STONE REVETMENT REMOVAL
AND REPLACEMENT WITH 24"
BETHANY FALLS RIPRAP
60" RCP
CULVERT
4 FT HIGH LEVEE
BUILDING TO
BE DEMOLISHED
280 FT X 80 FT INTERIOR
DRAINAGE DETENTION BASIN
WITH 3:1 SIDE SLOPES
6 FT HIGH LEVEE
6 FT HIGH LEVEE
MATCHLINE PLATE 3
+2.7
+2.8
2.719
2.623
2.651
Upper Turkey Creek
Feasibility Study
Johnson and Wyandotte Counties, Kansas
Flood Risk Management
Legend
Existing Top of Bank
Detention Basin
Levee
Floodwall
Rip Rap/Revetment
New RCP Culvert
Utilities
Existing
Proposed
Water Main
Gas Main
Storm Sewer
Sanitary Sewer
Electric
Outfall
Sewer Manhole
N
0
50
100
150
200
Feet
Scale: 1 inch = 100 feet
Notes
1. Aerial Photograph date - 2012.

PLATE 2

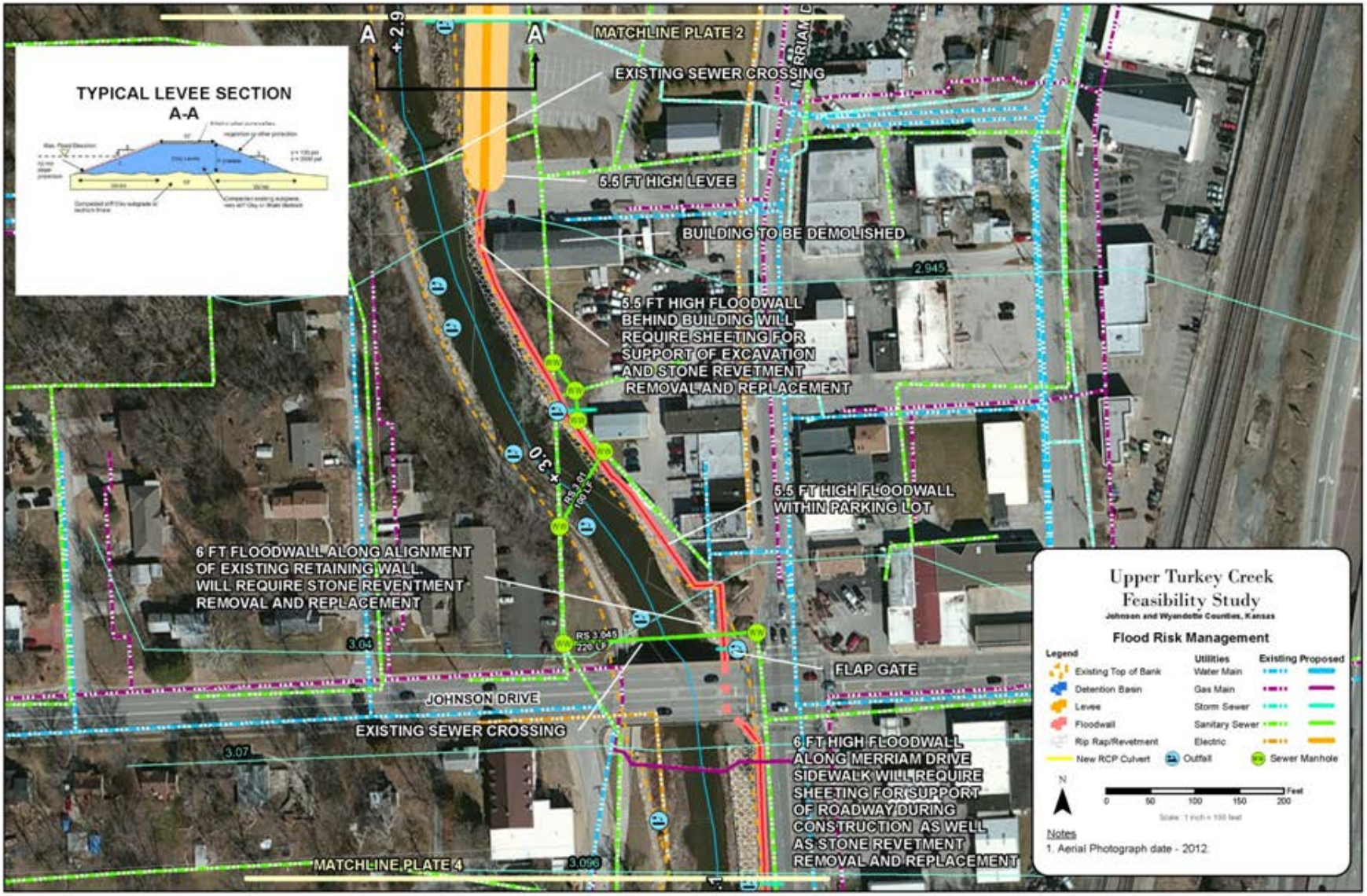

TYPICAL LEVEE SECTION
A-A
A
A
+ 2.9
MATCHLINE PLATE 2
EXISTING SEWER CROSSING
5.5 FT HIGH LEVEE
BUILDING TO BE DEMOLISHED
2.945
5.5 FT HIGH FLOODWALL BEHIND BUILDING WILL REQUIRE SHEETING FOR SUPPORT OF EXCAVATION AND STONE REVETMENT REMOVAL AND REPLACEMENT
+ 3.0
RS 3.01 190 LF
5.5 FT HIGH FLOODWALL WITHIN PARKING LOT
6 FT FLOODWALL ALONG ALIGNMENT OF EXISTING RETAINING WALL WILL REQUIRE STONE REVENTMENT REMOVAL AND REPLACEMENT
3.04
RS 3.045 220 LF
FLAP GATE
JOHNSON DRIVE
EXISTING SEWER CROSSING
3.07
6 FT HIGH FLOODWALL ALONG MERRIAM DRIVE SIDEWALK WILL REQUIRE SHEETING FOR SUPPORT OF ROADWAY DURING CONSTRUCTION AS WELL AS STONE REVETMENT REMOVAL AND REPLACEMENT
MATCHLINE PLATE 4
3.096
Upper Turkey Creek Feasibility Study
Johnson and Wyandotte Counties, Kansas
Flood Risk Management
Legend
Existing Top of Bank
Detention Basin
Levee
Floodwall
Rip Rap/Revetment
New RCP Culvert
Utilities
Existing Proposed
Water Main
Gas Main
Storm Sewer
Sanitary Sewer
Electric
Outfall
Sewer Manhole
N
0 50 100 150 200 Feet
Notes
1. Aerial Photograph date - 2012.

PLATE 3

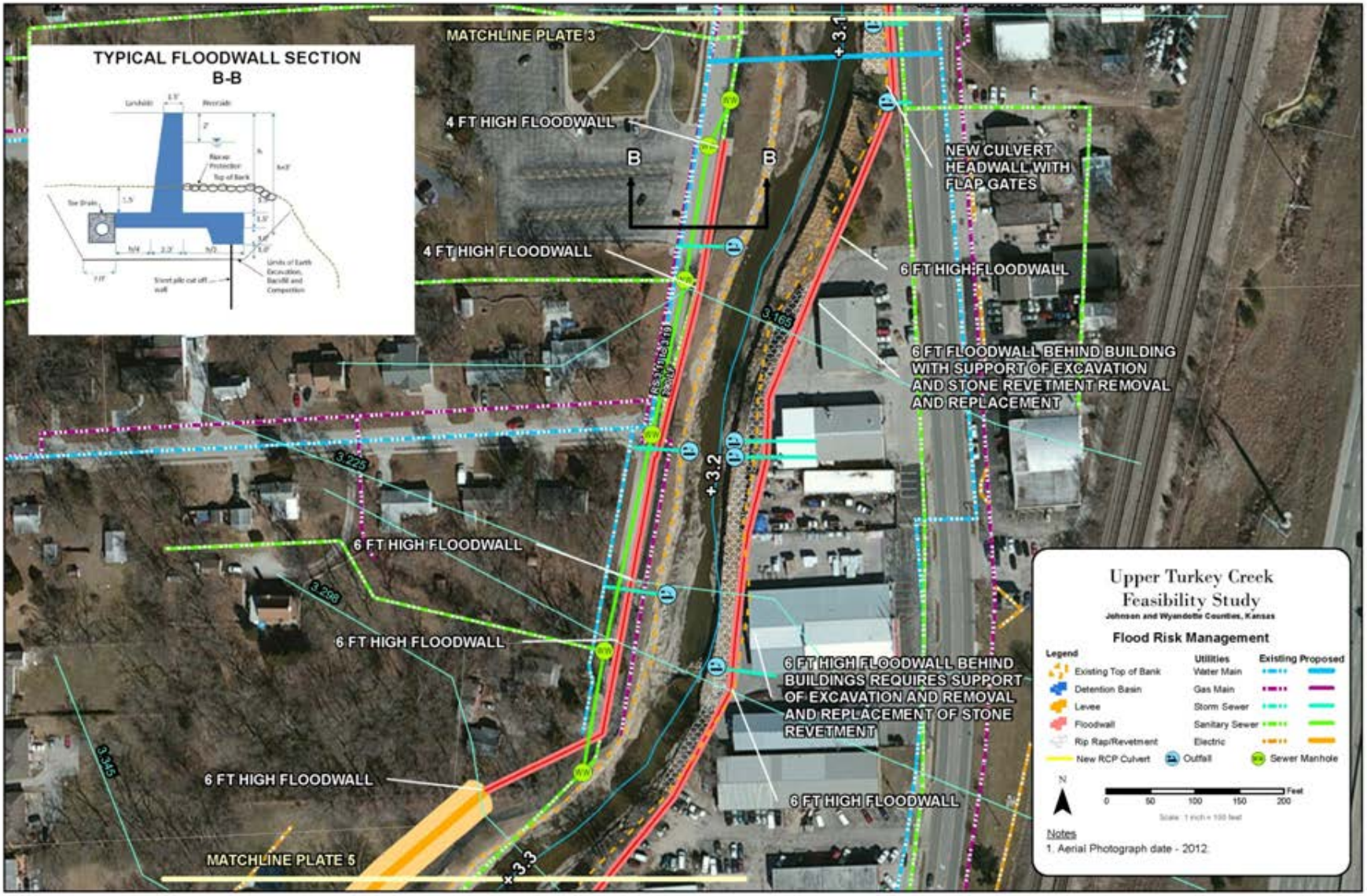

TYPICAL FLOODWALL SECTION
B-B
MATCHLINE PLATE 3
4 FT HIGH FLOODWALL
B
B
4 FT HIGH FLOODWALL
NEW CULVERT HEADWALL WITH FLAP GATES
6 FT HIGH FLOODWALL
6 FT FLOODWALL BEHIND BUILDING WITH SUPPORT OF EXCAVATION AND STONE REVETMENT REMOVAL AND REPLACEMENT
6 FT HIGH FLOODWALL
6 FT HIGH FLOODWALL
6 FT HIGH FLOODWALL BEHIND BUILDINGS REQUIRES SUPPORT OF EXCAVATION AND REMOVAL AND REPLACEMENT OF STONE REVETMENT
6 FT HIGH FLOODWALL
6 FT HIGH FLOODWALL
MATCHLINE PLATE 5
+3.1
+3.2
+3.3
3.165
3.225
3.288
3.345
Upper Turkey Creek
Feasibility Study
Johnson and Wyandotte Counties, Kansas
Flood Risk Management
Legend
Existing Top of Bank
Detention Basin
Levee
Floodwall
Rip Rap/Revetment
New RCP Culvert
Utilities
Existing Proposed
Water Main
Gas Main
Storm Sewer
Sanitary Sewer
Electric
Outfall
Sewer Manhole
N
0 50 100 150 200 Feet
Notes
1. Aerial Photograph date - 2012.

PLATE 4

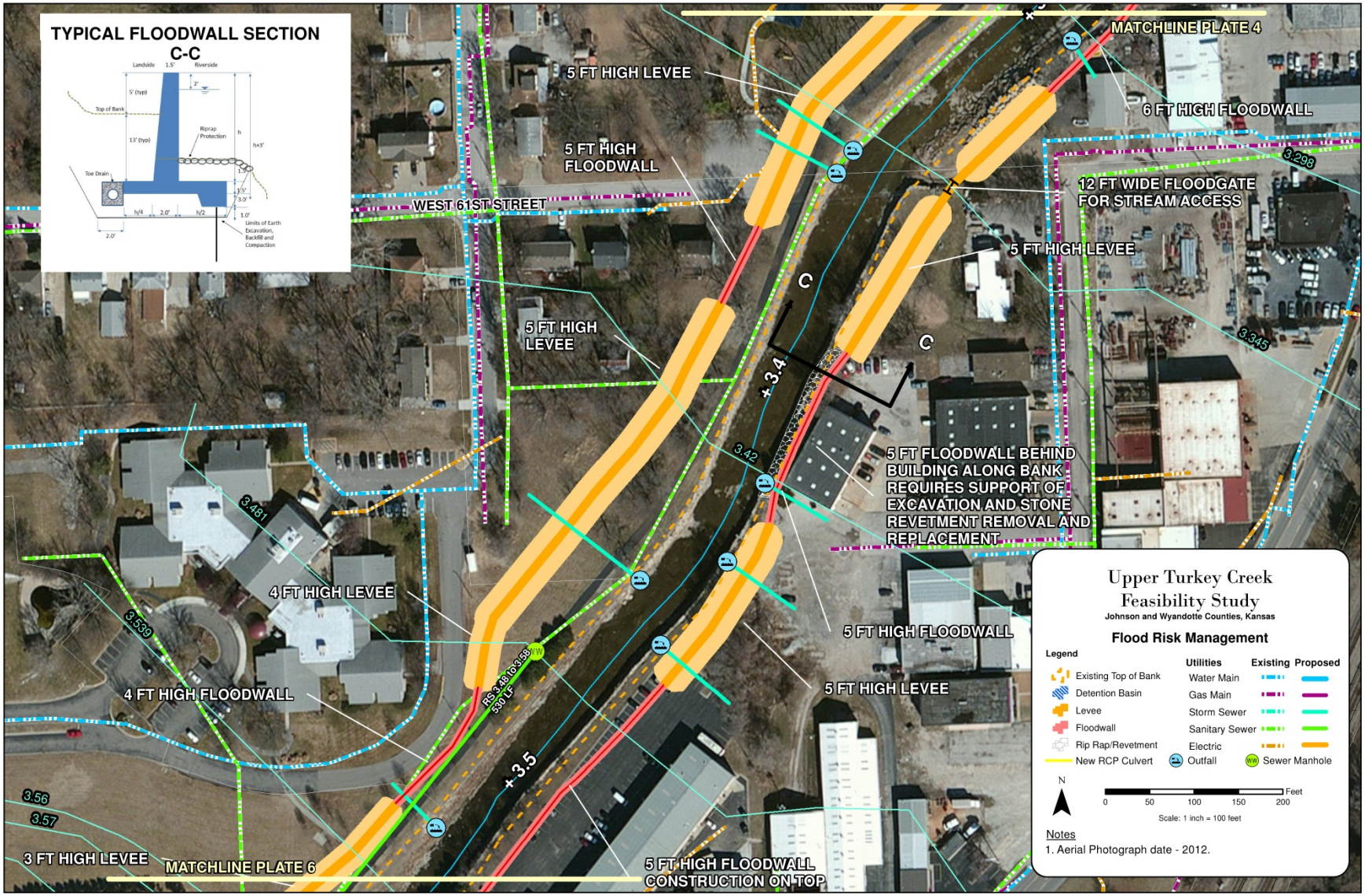
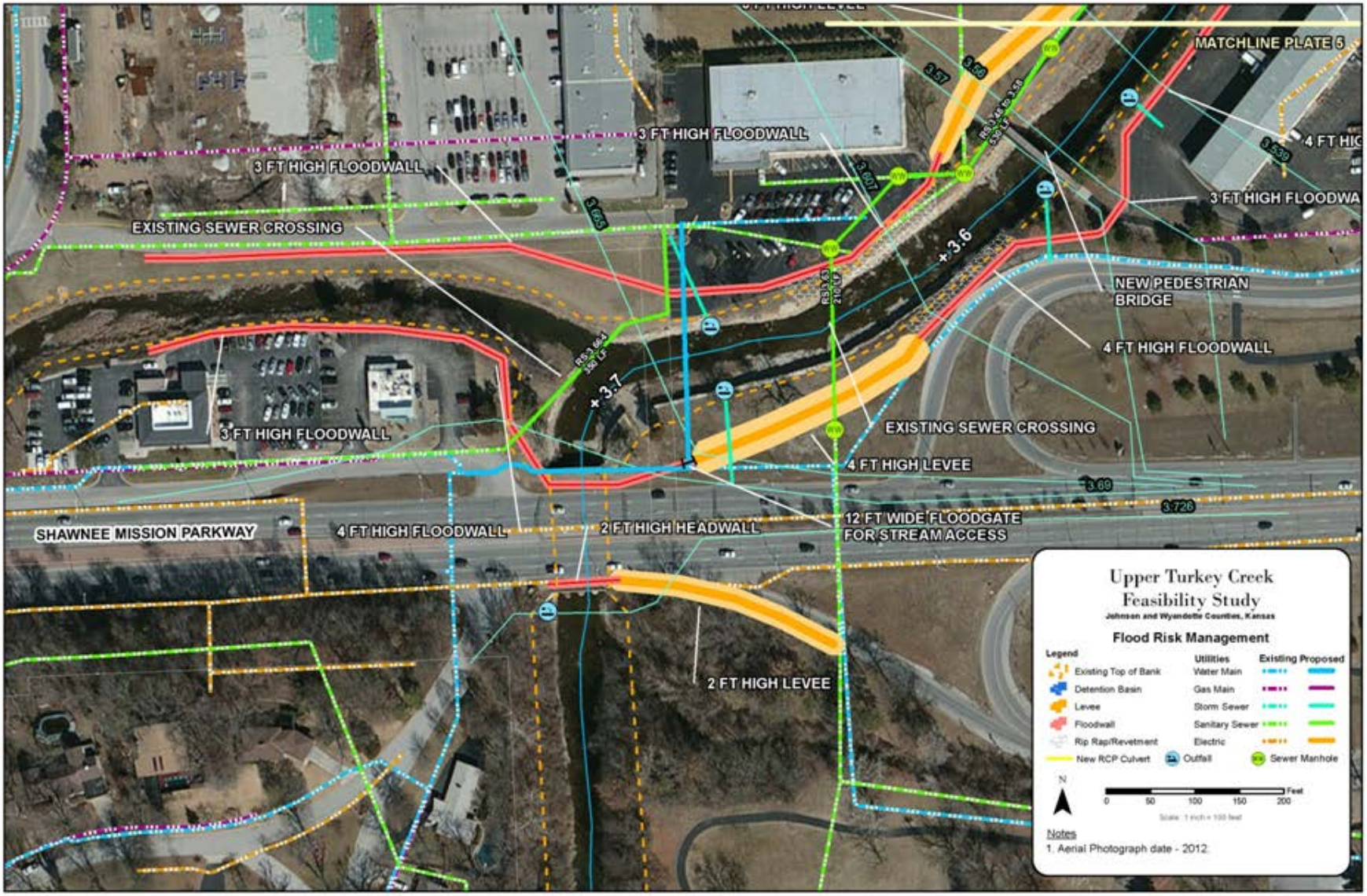

TYPICAL FLOODWALL SECTION
C-C
Landside
1.5'
Riverside
2'
5' (typ)
Top of Bank
13' (typ)
Riprap Protection
h
h+5'
Toe Drain
1.5'
3.5'
3.0'
h/4
2.0'
h/2
1.0'
2.0'
Limits of Earth Excavation, Backfill and Compaction
MATCHLINE PLATE 4
5 FT HIGH LEVEE
6 FT HIGH FLOODWALL
5 FT HIGH FLOODWALL
3.298
12 FT WIDE FLOODGATE FOR STREAM ACCESS
WEST 61ST STREET
5 FT HIGH LEVEE
C
C
5 FT HIGH LEVEE
3.345
+3.4
3.42
5 FT FLOODWALL BEHIND BUILDING ALONG BANK REQUIRES SUPPORT OF EXCAVATION AND STONE REVETMENT REMOVAL AND REPLACEMENT
3.481
4 FT HIGH LEVEE
3.539
5 FT HIGH FLOODWALL
4 FT HIGH FLOODWALL
RS 3.48 to 3.58
530 LF
5 FT HIGH LEVEE
+3.5
3.56
3.57
3 FT HIGH LEVEE
MATCHLINE PLATE 6
5 FT HIGH FLOODWALL CONSTRUCTION ON TOP
Upper Turkey Creek Feasibility Study
Johnson and Wyandotte Counties, Kansas
Flood Risk Management
Legend
Existing Top of Bank
Detention Basin
Levee
Floodwall
Rip Rap/Revetment
New RCP Culvert
Utilities
Existing
Proposed
Water Main
Gas Main
Storm Sewer
Sanitary Sewer
Electric
Outfall
Sewer Manhole
N
0
50
100
150
200
Feet
Scale: 1 inch = 100 feet
Notes
1. Aerial Photograph date - 2012.

PLATE 5


MATCHLINE PLATE 5
3 FT HIGH FLOODWALL
3 FT HIGH FLOODWALL
EXISTING SEWER CROSSING
3 FT HIGH FLOODWALL
NEW PEDESTRIAN BRIDGE
4 FT HIGH FLOODWALL
EXISTING SEWER CROSSING
4 FT HIGH LEVEE
3 FT HIGH FLOODWALL
SHAWNEE MISSION PARKWAY
4 FT HIGH FLOODWALL
2 FT HIGH HEADWALL
12 FT WIDE FLOODGATE FOR STREAM ACCESS
2 FT HIGH LEVEE
+3.6
+3.7
Upper Turkey Creek Feasibility Study
Johnson and Wyandotte Counties, Kansas
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New RCP Culvert
Utilities
Existing Proposed
Water Main
Gas Main
Storm Sewer
Sanitary Sewer
Electric
Outfall
Sewer Manhole
N
0 50 100 150 200 Feet
Notes
1. Aerial Photograph date - 2012.

PLATE 6