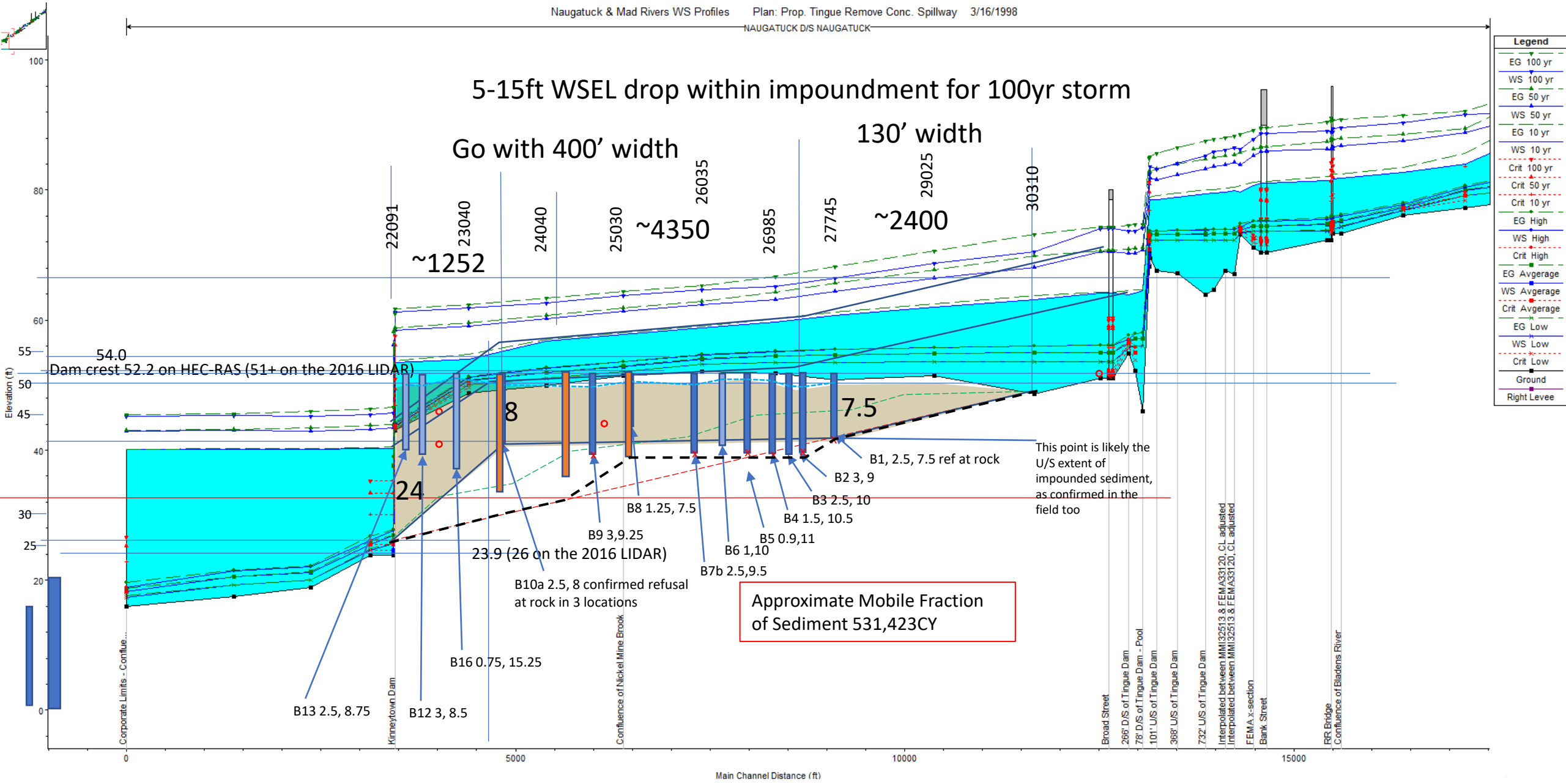
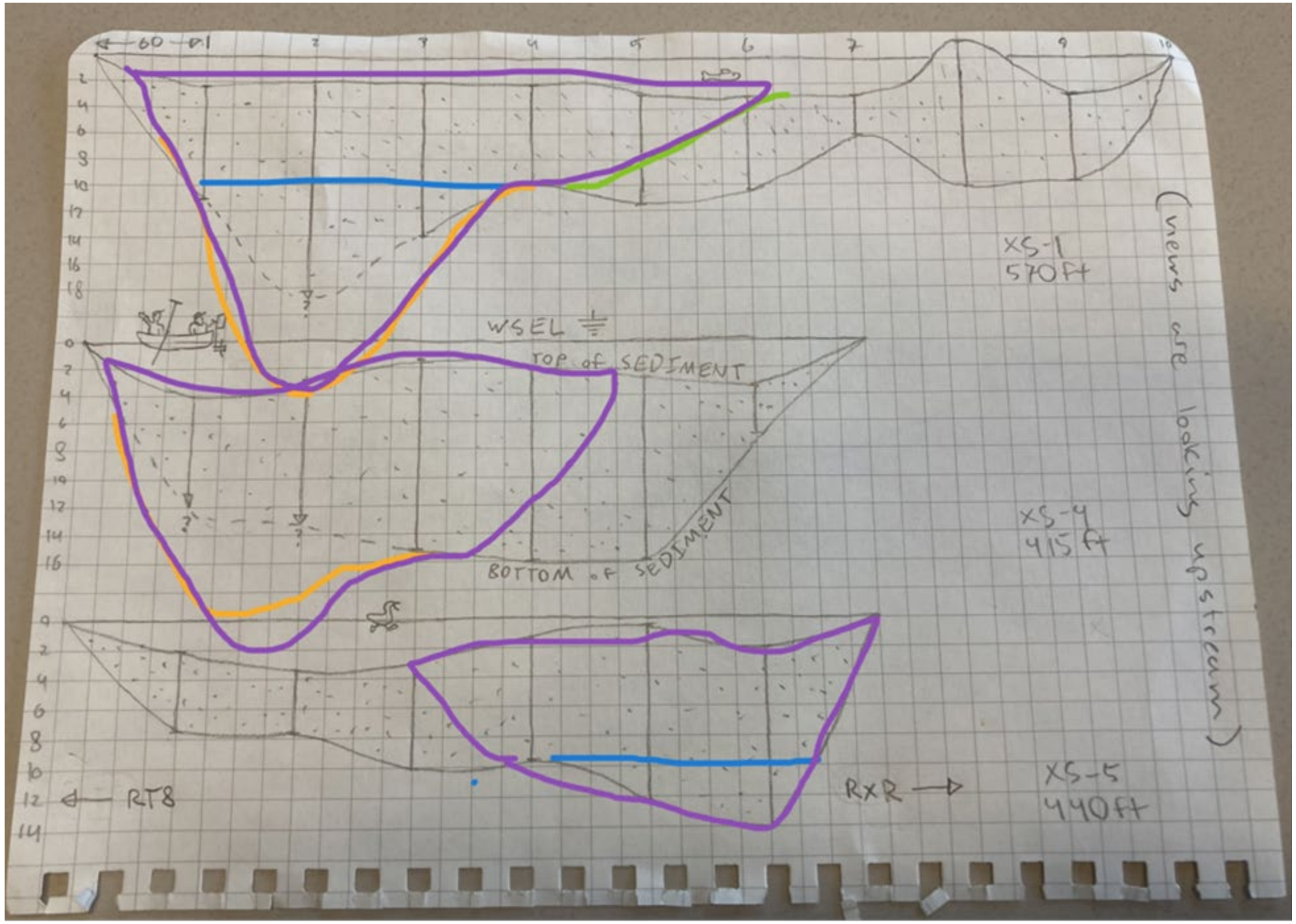
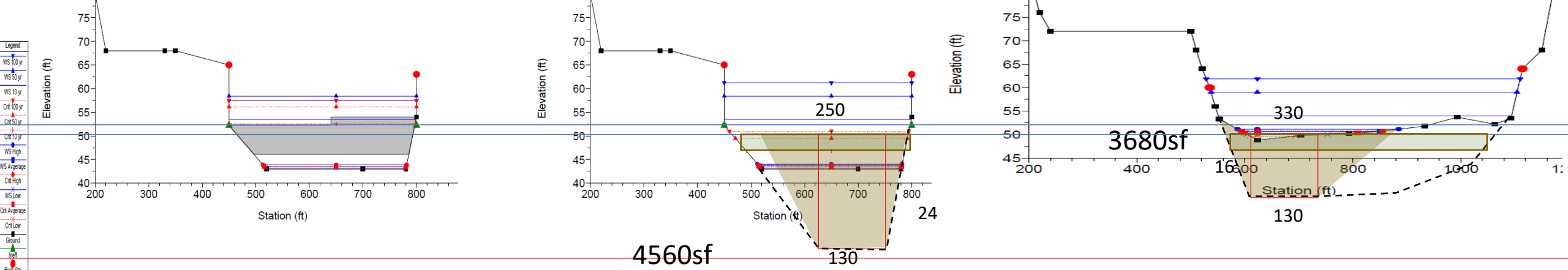
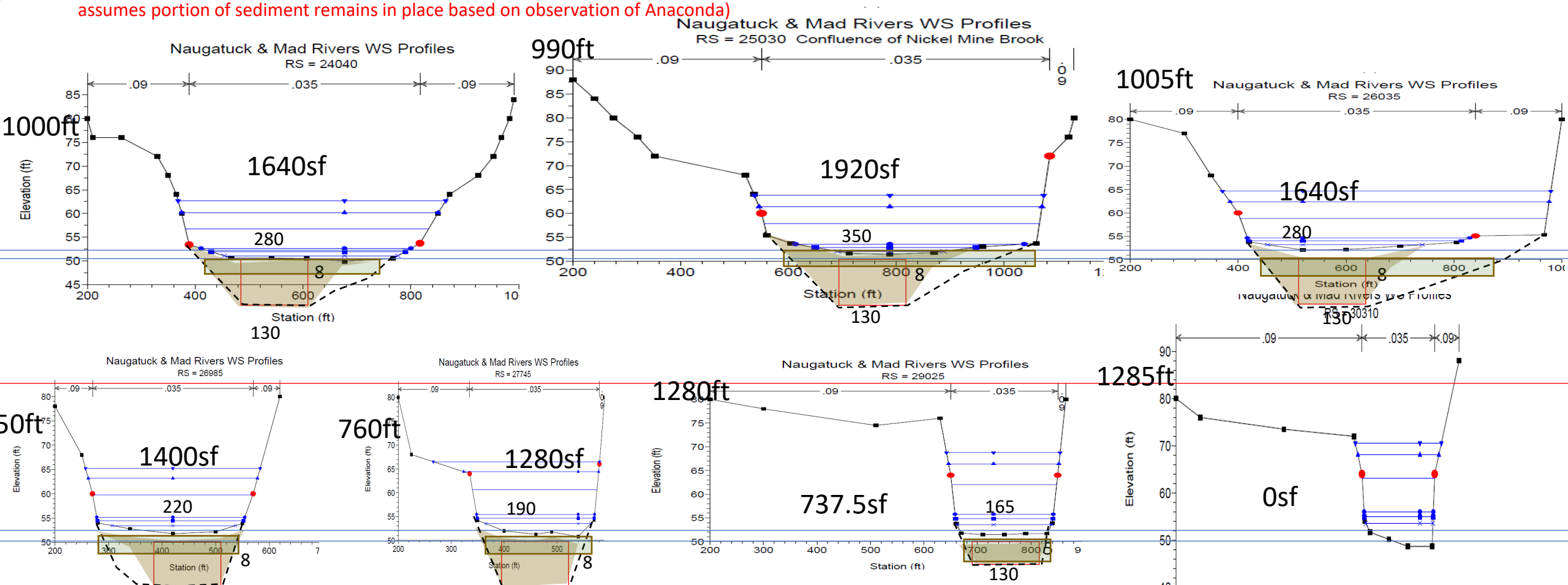

Naugatuck & Mad Rivers WS Profiles Plan: Prop. Tingue Remove Conc. Spillway 3/16/1998
NAUGATUCK D/S NAUGATUCK
5-15ft WSEL drop within impoundment for 100yr storm
Go with 400' width
130' width
22091
23040
24040
25030
26035
26985
27745
29025
30310
~1252
~4350
~2400
54.0
Dam crest 52.2 on HEC-RAS (51+ on the 2016 LIDAR)
8
7.5
24
23.9 (26 on the 2016 LIDAR)
B1, 2.5, 7.5 ref at rock
B2 3, 9
B3 2.5, 10
B4 1.5, 10.5
B5 0.9,11
B6 1,10
B7b 2.5,9.5
B8 1.25, 7.5
B9 3,9.25
B10a 2.5, 8 confirmed refusal at rock in 3 locations
B16 0.75, 15.25
B13 2.5, 8.75
B12 3, 8.5
This point is likely the U/S extent of impounded sediment, as confirmed in the field too
Approximate Mobile Fraction of Sediment 531,423CY
Elevation (ft)
Main Channel Distance (ft)
Corporate Limits - Conflue...
Kinneytown Dam
Confluence of Nickel Mine Brook
Broad Street
266' D/S of Tingue Dam
78' D/S of Tingue Dam - Pool
101' U/S of Tingue Dam
368' U/S of Tingue Dam
732' U/S of Tingue Dam
Interpolated between MM32513 & FEMA33120, CL adjusted
Interpolated between MM32513 & FEMA33120, CL adjusted
FEMA x-section
Bank Street
RR Bridge
Confluence of Bladens River
Legend
EG 100 yr
WS 100 yr
EG 50 yr
WS 50 yr
EG 10 yr
WS 10 yr
Crit 100 yr
Crit 50 yr
Crit 10 yr
EG High
WS High
Crit High
EG Avgerage
WS Avgerage
Crit Avgerage
EG Low
WS Low
Crit Low
Ground
Right Levee


XS-1
570ft
WSEL
TOP of SEDIMENT
BOTTOM of SEDIMENT
XS-4
415 ft
RT8
RXR
XS-5
440ft
(views are looking upstream)

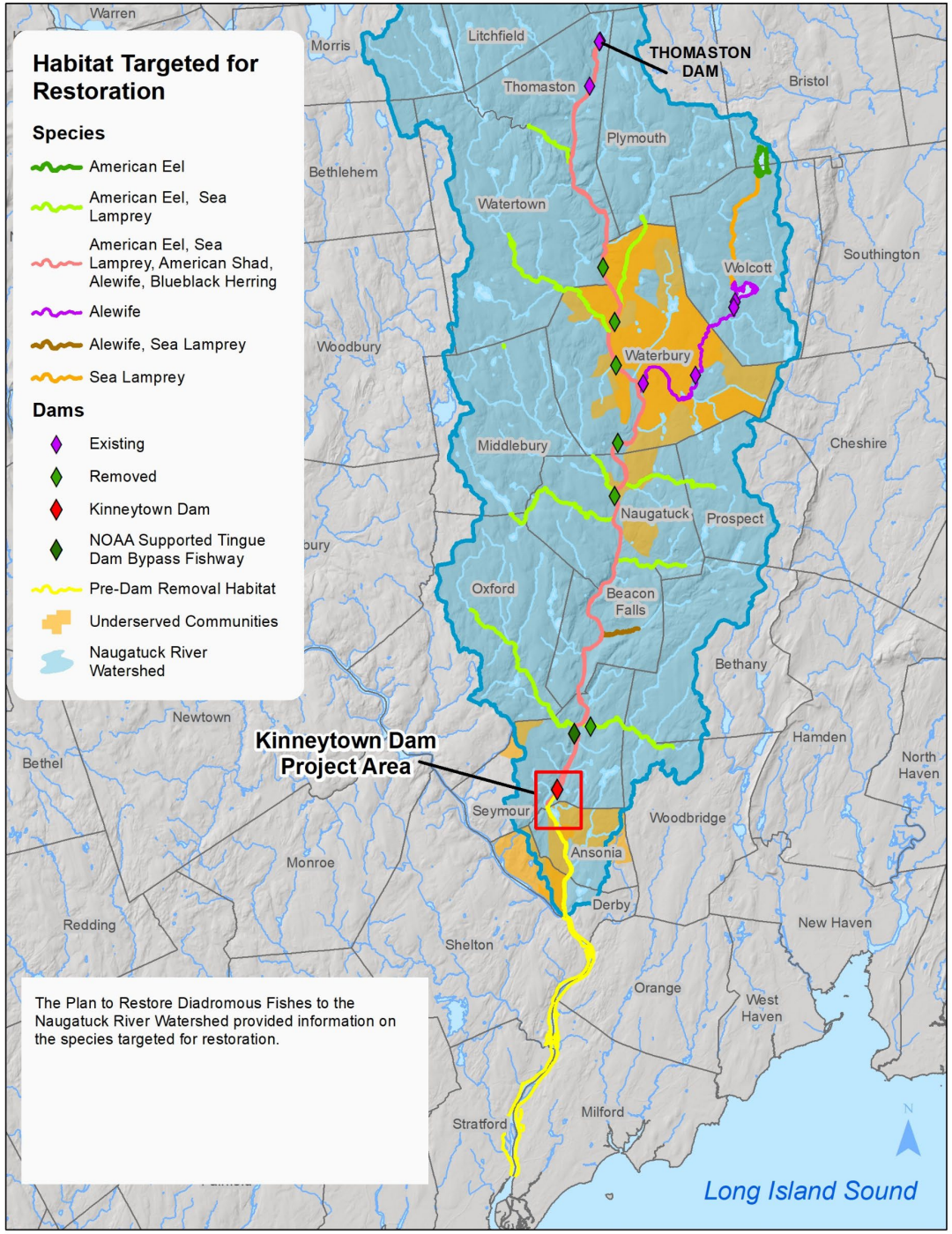


Assumed ~2 foot water depths throughout (low estimate uses 4ft depth throughout wetted impoundment (49ac); high estimate uses brown shaded areas based on probes and assumes portion of sediment remains in place based on observation of Anaconda)



Kinneytown Dam Impounded Sediment - Likely Mobile Fraction out of ~780,000CY total

X-sectional area (sf)	Reach length (ft)		Reach volume (cf)	Reach volume (CY)	
4560					
	949	4120	3909880	144810	
3680					
	1000	2660	2660000	98519	
1640					
	990	1780	1762200	65267	
1920					
	1005	1780	1788900	66256	
1640					
	950	1520	1444000	53481	
1400					
	760	1340	1018400	37719	
1280					
	1280	1008.75	1291200	47822	
737.5					
	1285	368.75	473843.75	17550	
0					
				531423	CY



The Plan to Restore Diadromous Fishes to the Naugatuck River Watershed provided information on the species targeted for restoration.

7/26

B1 Pump House

off launch points, coarse layer of gravel, compacted @ 2.5' below TOS, rock @ m

water Depth 2.5' 7.5' to rock refusal

B2 WD 3 Sed. D
9' to compacted coarse sand ref
(~3' down to gravel layer)

B3 2.5 10' to compacted coarse sand ref
(3' down to stony gravel layer, ~2' thick)

B4 1.5 10.5 to cobble/rock ref
(6.5' down to gravel layer)
10.5 to refusal possible bedrock

B5 0.97 11' to comp. sand ref
(no special layer)

B6 1.0 10 into sand w/ some muck, couldn't get to ref, stinky, org. leaf material retrieved

B7ae 4 6' to rock
(~2' down to a gravel layer)
bubbles more in this area, but 1' w. depth on w. 1/2

B7bw 2.5 9.5' into mucky sand

Navigation R. - Kingstown

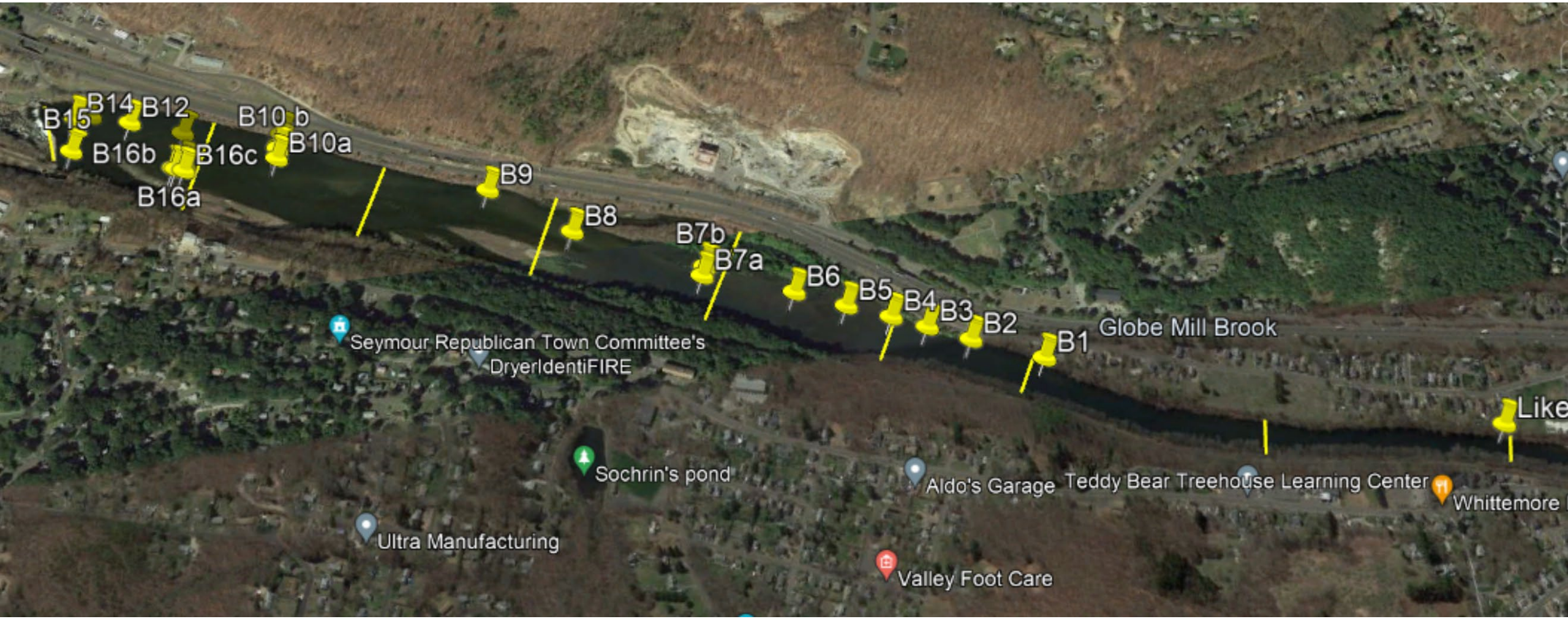
take B8	WD 1.25	7.5'	to comp. sand & gravel, not refusal
B9	3	7.25'	to coarse sand refusal
B10a	2.75	8'	to rock refusal
B10b	2	8'	to rock refusal
B10c	1.75	8.5'	to rock refusal
B10d	1.25	9.25'	to comp sand refusal
bubbles → organics B11	2.75	6.5'	to rocks/cobbles

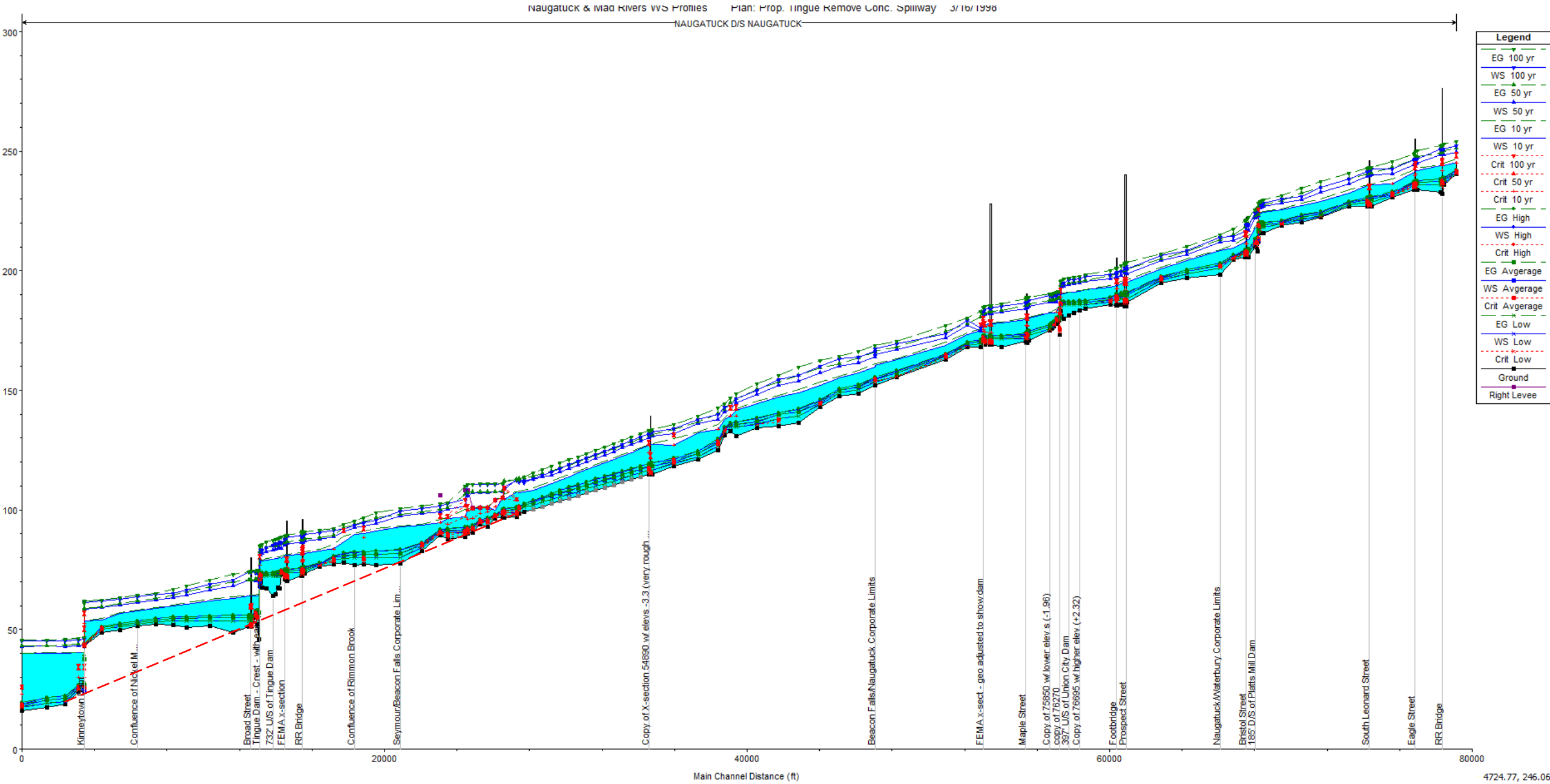
(Break)

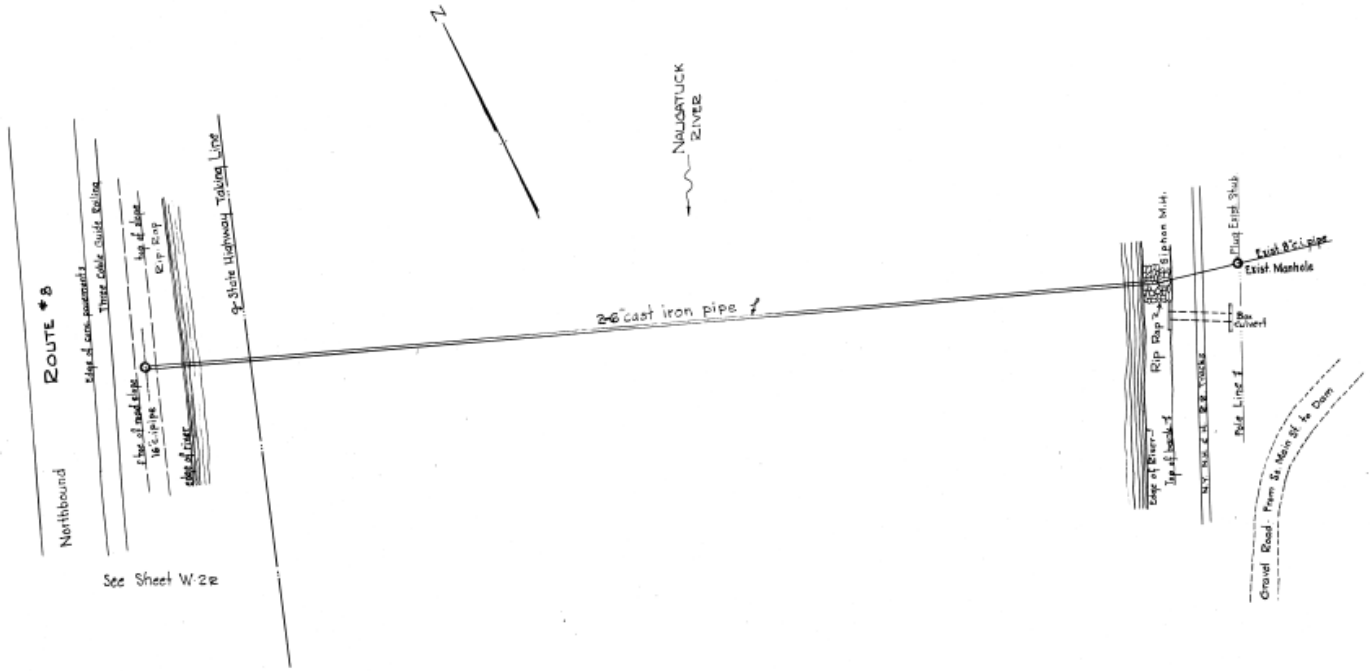
B12	3.0	8.5'	into sand w/ muck ~~or clay~~ not to refusal difficult to pull out
B13 petroleum smell	2.5	8.75'	into med sand w/ some organics no clay, no refusal
B14	4	5.75	to comp sand/gravel crunch can't penitrate further
B15 @ RR xing	3.25	6	to comp muck/sand 5' from WSEL to RR low

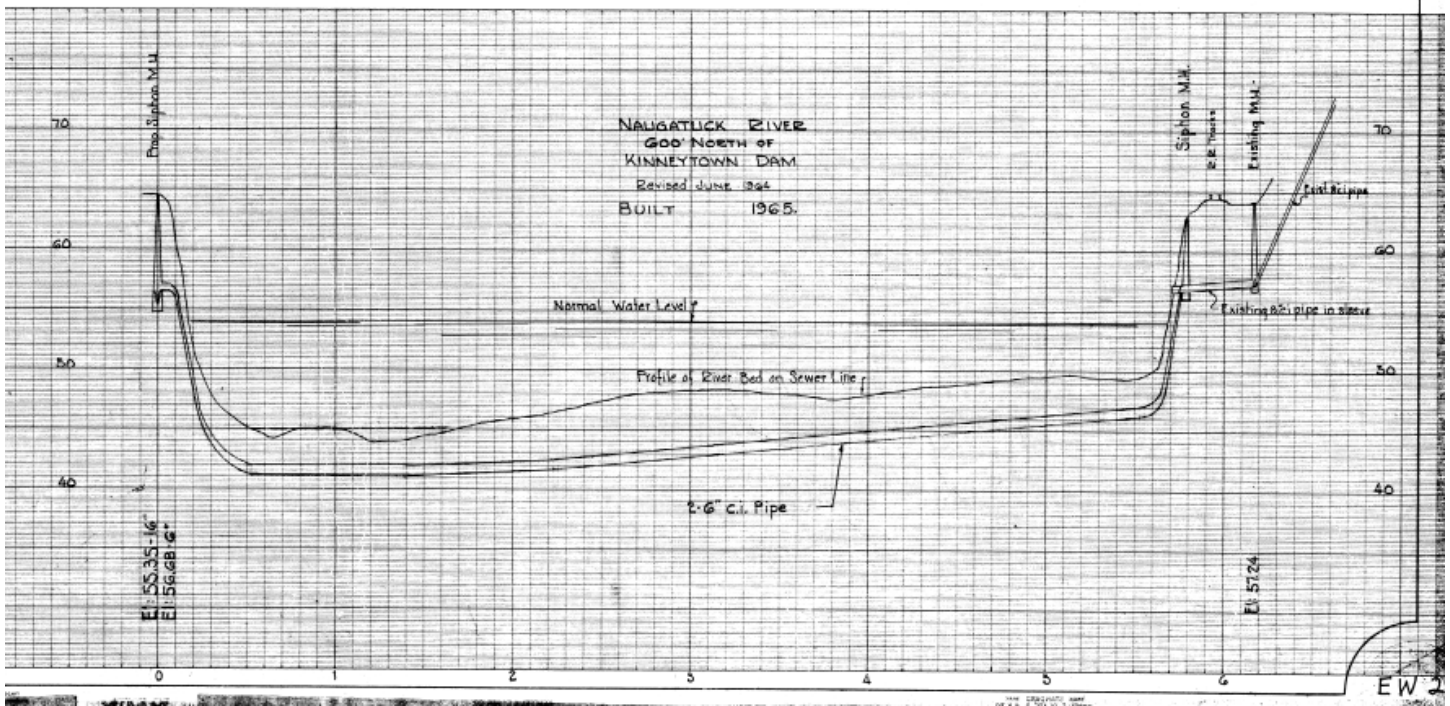
W. level is right @ crest of dam.

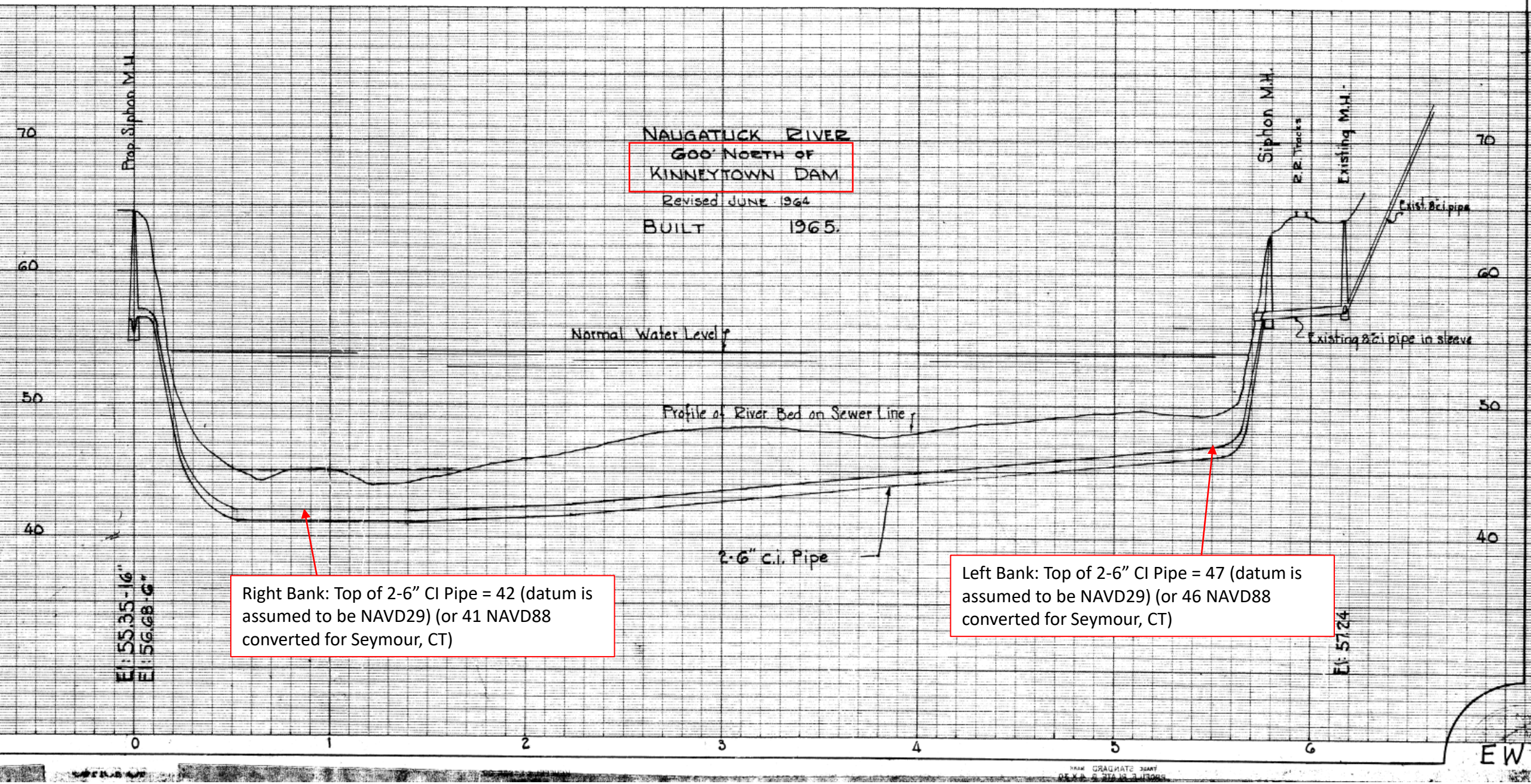
	WD	Probe Depth & Details
B16a	~ over	SS. line sighted
	0.75	15.25 to solid ref. could be top SS. line cable
B16b	0.5	15.5 to solid ref. ?rk (~11.5 gravel layer)
B16c	1.0	went into ~8' but too mucky so moved before refusal
B16d	2.0	8.5 to coarse gravel not ref. (7.5 to firmer sand layer)
U/S Pt 1		2-3' rks on channel bed pot. out of imp. red trench


B15
B14
B12
B10 b
B10a
B16b
B16c
B16a
B9
B8
B7b
B7a
B6
B5
B4
B3
B2
B1
Globe Mill Brook
Seymour Republican Town Committee's
DryerIdentiFIRE
Sochrin's pond
Aldo's Garage
Teddy Bear Treehouse Learning Center
Whittemore
Ultra Manufacturing
Valley Foot Care


Naugatuck & Mad Rivers WS Profiles Plan: Prop. Tingue Remove Conc. Spillway 3/16/1998
NAUGATUCK D/S NAUGATUCK
Legend
EG 100 yr
WS 100 yr
EG 50 yr
WS 50 yr
EG 10 yr
WS 10 yr
Crit 100 yr
Crit 50 yr
Crit 10 yr
EG High
WS High
Crit High
EG Avgerage
WS Avgerage
Crit Avgerage
EG Low
WS Low
Crit Low
Ground
Right Levee
Kinneytown
Confluence of Nickel M...
Broad Street
Tingue Dam - Crest - with gate
732' U/S of Tingue Dam
FEMA x-section
RR Bridge
Confluence of Rimmon Brook
Seymour/Beacon Falls Corporate Lim...
Copy of X-section 54890 w/ elevs -3.3 (very rough ...
Beacon Falls/Naugatuck Corporate Limits
FEMA x-sect - geo adjusted to show dam
Maple Street
Copy of 75850 w/ lower elev s (-1.96)
copy of 76270
397' U/S of Union City Dam
Copy of 76695 w/ higher elev (+2.32)
Footbridge
Prospect Street
Naugatuck/Waterbury Corporate Limits
Bristol Street
185' D/S of Platts Mill Dam
South Leonard Street
Eagle Street
RR Bridge
Main Channel Distance (ft)
0
20000
40000
60000
80000
0
50
100
150
200
250
300
4724.77, 246.06

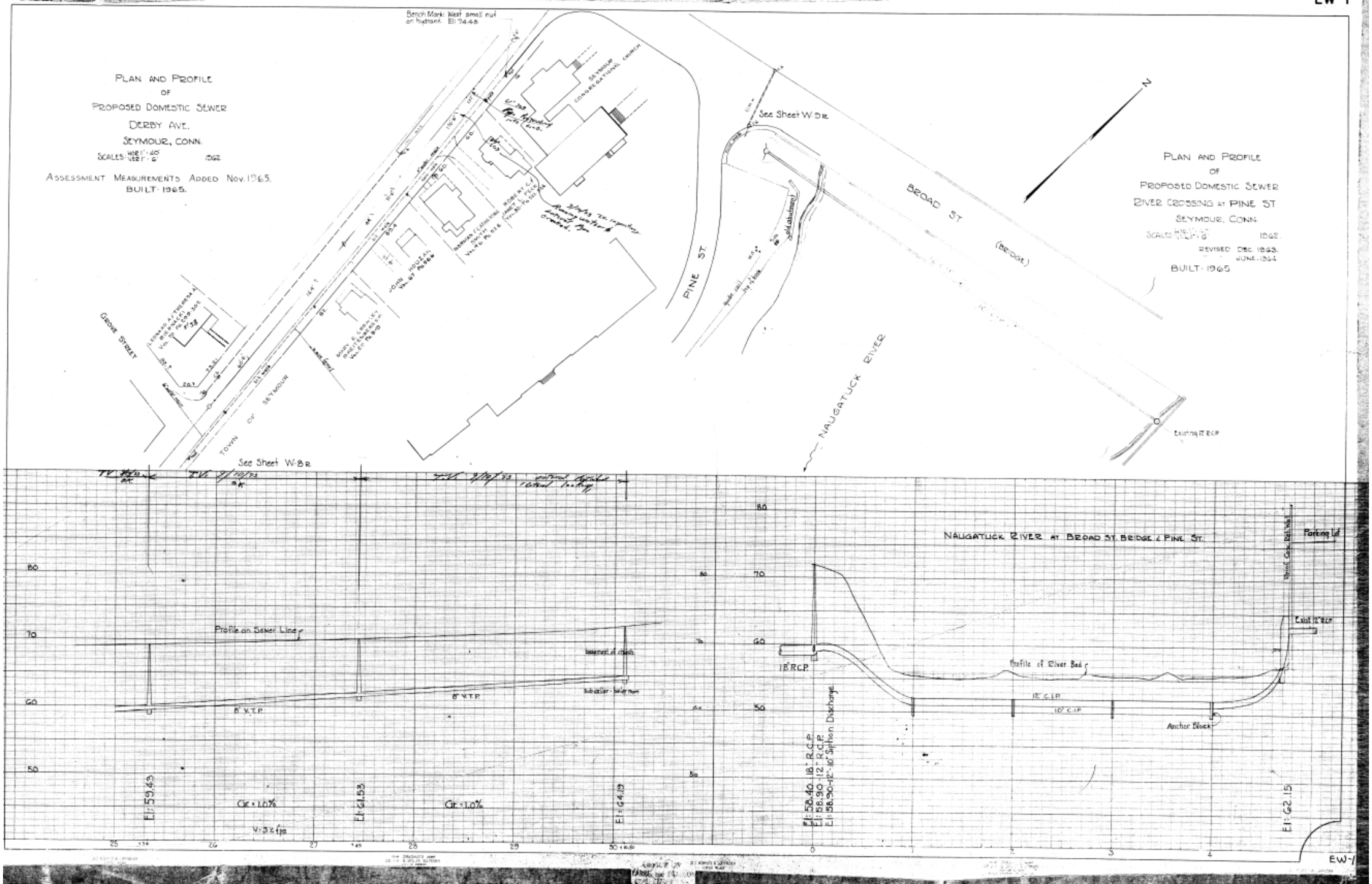

N
NAUGATUCK RIVER
ROUTE #8
Northbound
Edge of curb-pavement
Three Cable Guide Railing
Top of Slope
Edge of road Edge
16" C.I. pipe
Edge of River
State Highway Taking Line
See Sheet W-22
2-6" cast iron pipe
Siphon M.H.
Rip Rap
Plug Exist. Stub
Exist 8" C.I. pipe
Exist Manhole
Box Culvert
Pole Line
Edge of River
Top of bank
N.Y. N.H. & H. R.R. tracks
Gravel Road From So. Main St. to Dam

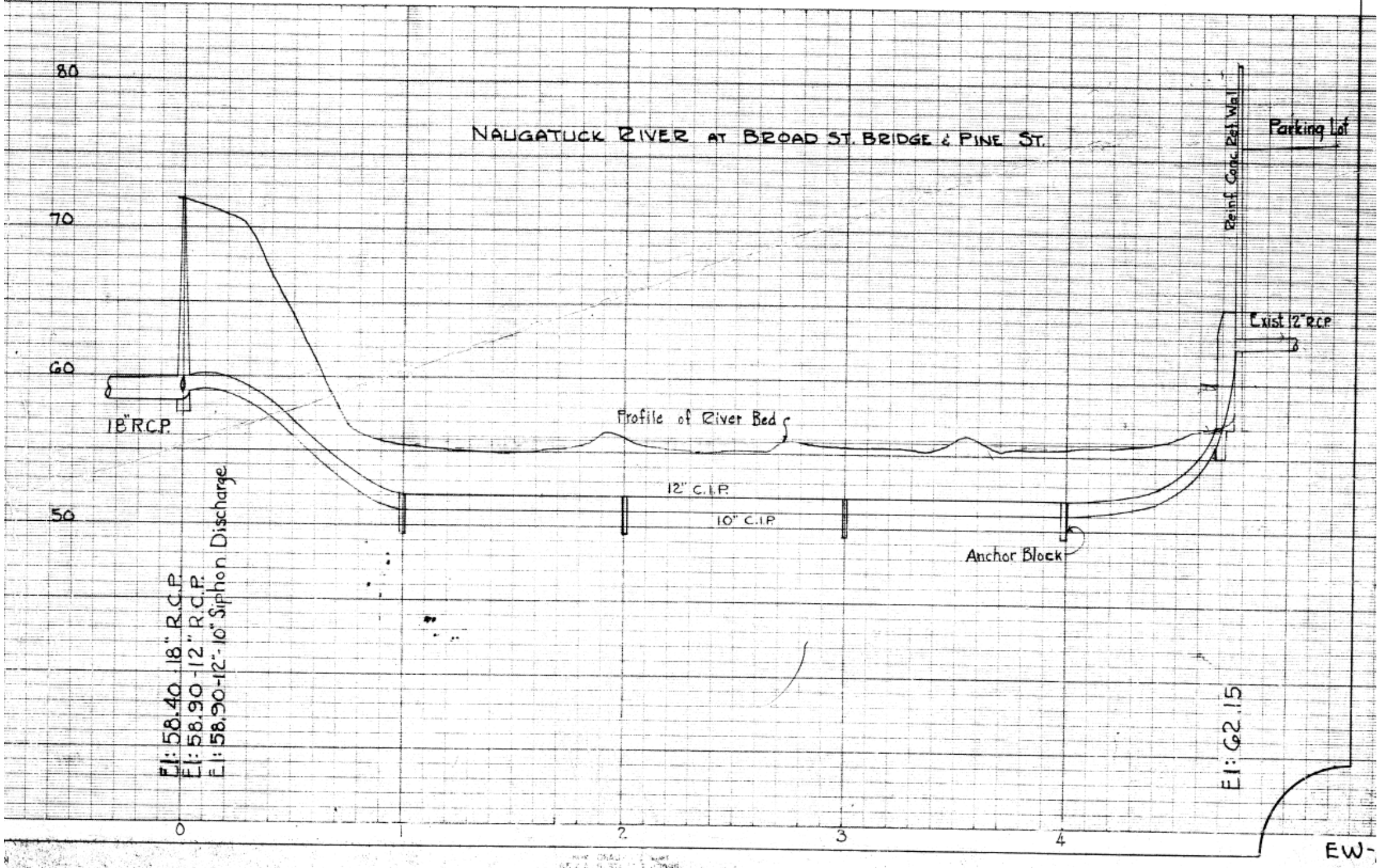

NAUGATUCK RIVER
600' NORTH OF
KINNEYTOWN DAM
Revised June 1964
BUILT 1965.
Prop. Siphon M.H.
Siphon M.H.
2-8" Trusses
Existing M.H.
Exist 8" C.I. pipe
Existing 8" C.I. pipe in sleeve
Normal Water Level
Profile of River Bed on Sewer Line
2-6" C.I. Pipe
El. 55.35-16
El. 56.68-6"
El. 57.24
70
60
50
40
0
1
2
3
4
5
6
EW-2



Right Bank: Top of 2-6" CI Pipe = 42 (datum is assumed to be NAVD29) (or 41 NAVD88 converted for Seymour, CT)

Left Bank: Top of 2-6" CI Pipe = 47 (datum is assumed to be NAVD29) (or 46 NAVD88 converted for Seymour, CT)


PLAN AND PROFILE
OF
PROPOSED DOMESTIC SEWER
DERBY AVE.
SEYMOUR, CONN.
SCALES HOR. 1" = 40' VERT. 1" = 6'
1962
ASSESSMENT MEASUREMENTS ADDED NOV. 1965.
BUILT - 1965.
Bench Mark: West small nut on hydrant. El: 74.48
SEYMOUR CONGREGATIONAL CHURCH
GROVE STREET
TOWN OF SEYMOUR
See Sheet W-8R
PINE ST.
BROAD ST
(BRIDGE)
NAUGATUCK RIVER
N
PLAN AND PROFILE
OF
PROPOSED DOMESTIC SEWER
RIVER CROSSING AT PINE ST
SEYMOUR, CONN.
SCALES HOR. 1" = 40' VERT. 1" = 6'
1962.
REVISED DEC. 1963.
JUNE - 1964
BUILT - 1965
Profile on Sewer Line
basement of church
8" V.T.P.
Gr. = 1.0%
V: 3.2 fps
El: 59.43
El: 61.53
El: 64.03
NAUGATUCK RIVER AT BROAD ST. BRIDGE & PINE ST.
Parking lot
Profile of River Bed
12" R.C.P.
12" C.I.P.
10" C.I.P.
Anchor Block
El: 58.40 - 18" R.C.P.
El: 58.90 - 12" R.C.P.
El: 56.50-42"-10" Siphon Discharge
El: 62.15
EW-1


NAUGATUCK RIVER AT BROAD ST. BRIDGE & PINE ST.
80
70
60
50
0
2
3
4
18" R.C.P.
Profile of River Bed
12" C.I.P.
10" C.I.P.
Anchor Block
Reinf. Conc. Ret. Wall
Parking Lot
Exist 12" R.C.P.
El: 58.40 - 18" R.C.P.
El: 58.90 - 12" R.C.P.
El: 58.90-12"-10" Siphon Discharge
El: 62.15
EW-

NGS Coordinate Conversion and Transformation Tool (NCAT)

National Geodetic Survey

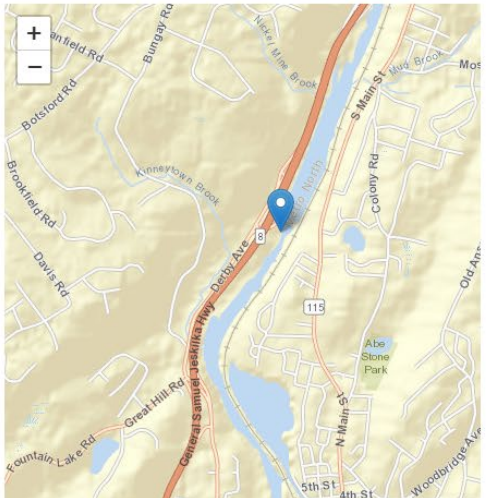
NGS Home | About NGS | Data & Imagery | Tools | Surveys | Science & Education | Search

Single Point Conversion | Multipoint Conversion | Web services | Downloads | Tutorial & FAQs | About NCAT

Convert/Transform from: Horizontal | Horizontal+height | XYZ

Select the type of horizontal coordinate: Geodetic lat-long | SPC | UTM | USNG

Select a height: Ellipsoidal | Orthometric



Enter lat-lon in decimal degrees

Lat 41.3682420676

Lon -73.0859470367

or degrees-minutes-seconds

Lat N 41-22-05.67144

Lon W 073-05-09.40933

or drag map marker to a location of interest

Input reference frame (historically called 'horizontal datum'): NAD83(2011)

Output reference frame (historically called 'horizontal datum'): NAD83(2011)

Don't see a reference frame in the list?Click **here** *to learn more.*

Orthometric Height: 42.000

Units of height: US Survey Feet

Input geopotential datum (historically called 'vertical datum'): NGVD29

Output geopotential datum (historically called 'vertical datum'): NAVD88

SPC zone: Auto Pick (default zone)

Click blue bar(s) to expand/collapse

Transformed Coordinate

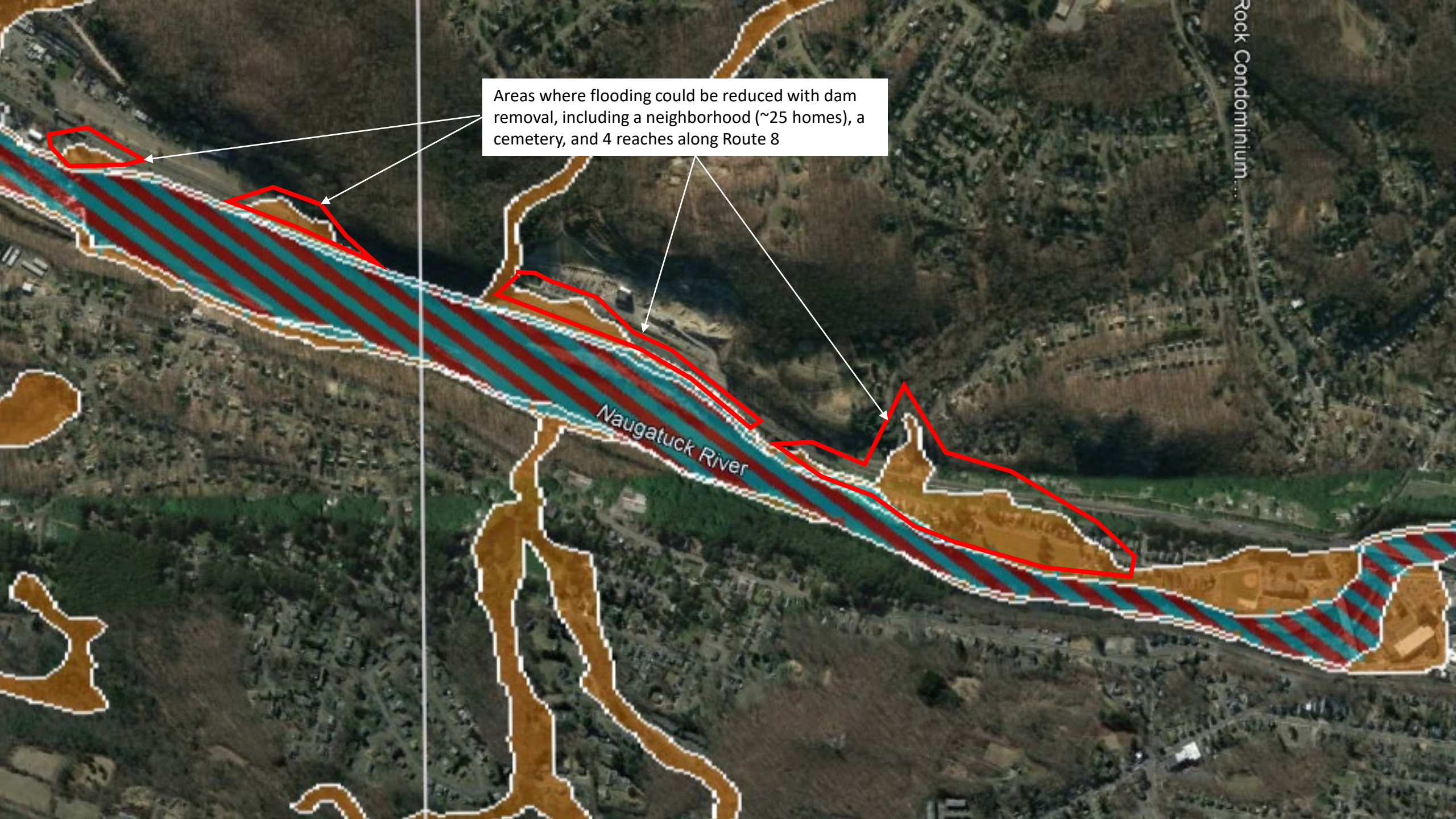
Input Coordinate		Output Coordinate		Total Change + Uncertainty	
Latitude	N41° 22' 05.67144" N412205.67144 41.3682420676	Latitude	N41° 22' 05.67144" N412205.67144 41.3682420676	Latitude	0.00000" ±0.000000" (0.000 m ±0.0000 m)*
Longitude	E286° 54' 50.59067" W0730509.40933 -73.0859470367	Longitude	E286° 54' 50.59067" W0730509.40933 -73.0859470367	Longitude	0.00000" ±0.000000" (0.000 m ±0.0000 m)*
Ellipsoid Height (usft)	Not given	Ellipsoid Height (usft)	Not given	Ellipsoid Height	Not given
Orthometric Height (usft)	42.001	Orthometric Height (usft)	40.994	Orthometric Height	-1.007 usft ±0.000 usft
Reference Frame	NAD83(2011)	Reference Frame	NAD83(2011)		
Geopotential Datum	NGVD29	Geopotential Datum	NAVD88		

*Approximate value to aid interpretation and not an actual distance. See TM NOS NGS 82 for more details.

[NGS Coordinate Conversion and Transformation Tool (NCAT) (noaa.gov)]

Select the radio buttons for Convert/Transform from: Horizontal+height, with Height type: Orthometric height. Then, you can either enter the coordinates in lat/long or state plane, depending. The "Submit" button at the bottom returns the transformation in a little table.

Remember to drag the pin to the location you want and select your units and vertical datum input and output before hitting submit


Areas where flooding could be reduced with dam removal, including a neighborhood (~25 homes), a cemetery, and 4 reaches along Route 8
Naugatuck River
Rock Condominium...