

STATE OF CONNECTICUT

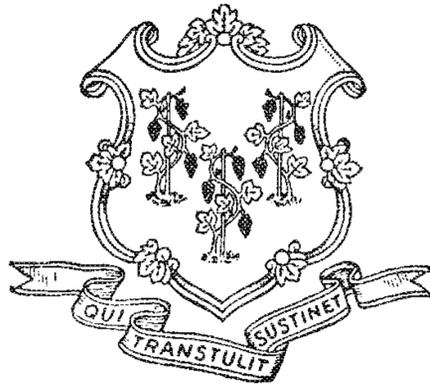
DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
BUREAU OF WATER PROTECTION AND LAND REUSE
INLAND WATER RESOURCES DIVISION CONSTRUCTION SERVICES

SOUTH BRANCH PARK RIVER FLOOD CONTROL MAINTENANCE PROJECT

HARTFORD, WEST HARTFORD, &
NEWINGTON, CONNECTICUT

C.T.D.E.E.P. PROJECT NUMBER DS20140776

JANUARY, 2015



DANNEL P. MALLOY
GOVERNOR



ROB KLEE
COMMISSIONER

LIST OF DRAWINGS

COVER SHEET

DRAWING 1 - ST. JOSEPH'S BROOK STA. 0+00 - STA. 18+00;
TROUT BROOK STA. 15+00 - STA. 46+65

DRAWING 2 - TROUT BROOK STA. 46+65 - STA. 90+00

DRAWING 3 - TROUT BROOK STA. 90+00 - STA. 97+50
AND STA. 167+00 - STA. 170+00;
ROCKLEDGE BROOK STA. 0+00 - STA. 7+68
AND STA. 28+53 - STA. 30+31

DRAWING 4 - TROUT BROOK STA. 172+00 - STA. 200+50;
SOUTH BRANCH PARK RIVER STA. 200+50 - STA. 214+50

DRAWING 5 - SOUTH BRANCH PARK RIVER STA. 214+50 - STA. 258+50

DRAWING 6 - SOUTH BRANCH PARK RIVER STA. 258+50 - STA. 286+55

DRAWING 7 - SOUTH BRANCH PARK RIVER STA. 308+33 - STA. 322+17 END OF PROJECT

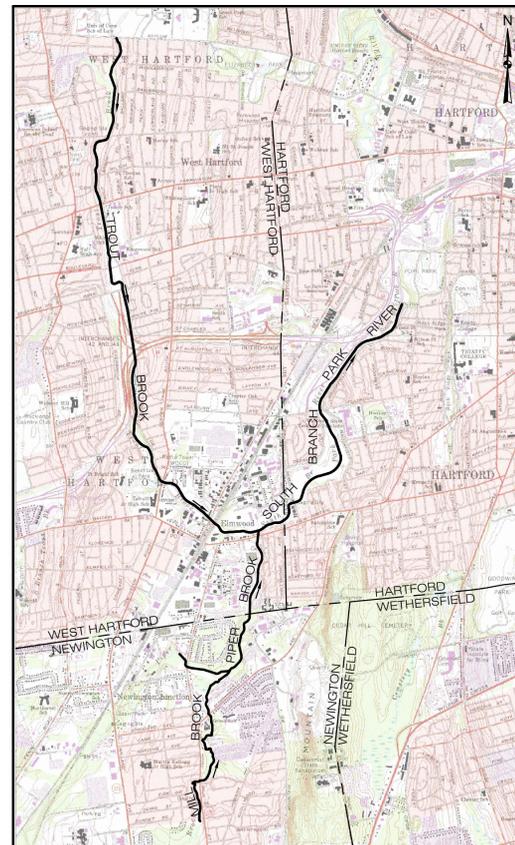
DRAWING 8 - PIPER BROOK STA. 0+00 - STA. 44+50

DRAWING 9 - PIPER BROOK STA. 44+50 - STA. 74+20 END OF PROJECT;
MILL BROOK STA. 53+50 - STA. 66+00

DRAWING 10 - MILL BROOK STA. 66+00 - STA. 78+25,
STA. 102+00 TO STA. 104+50,
AND STA. 112+15 - STA. 121+07 END OF PROJECT

DRAWING 11 - FLOODWALL REPAIR DETAILS

DRAWING 12 - CONSTRUCTION DETAILS



LOCATION PLAN
SCALE: 1"=3000'

PREPARED FOR:

**Connecticut Department of Energy &
Environmental Protection (C.T.D.E.E.P.)**

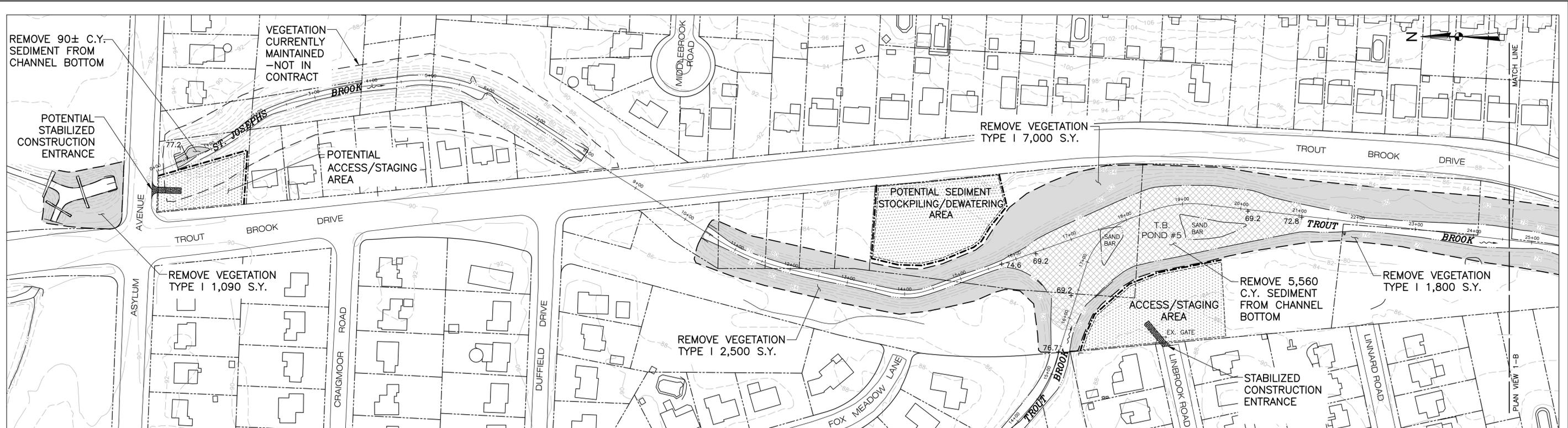
79 Elm Street
Hartford, CT 06106

DESIGNER:

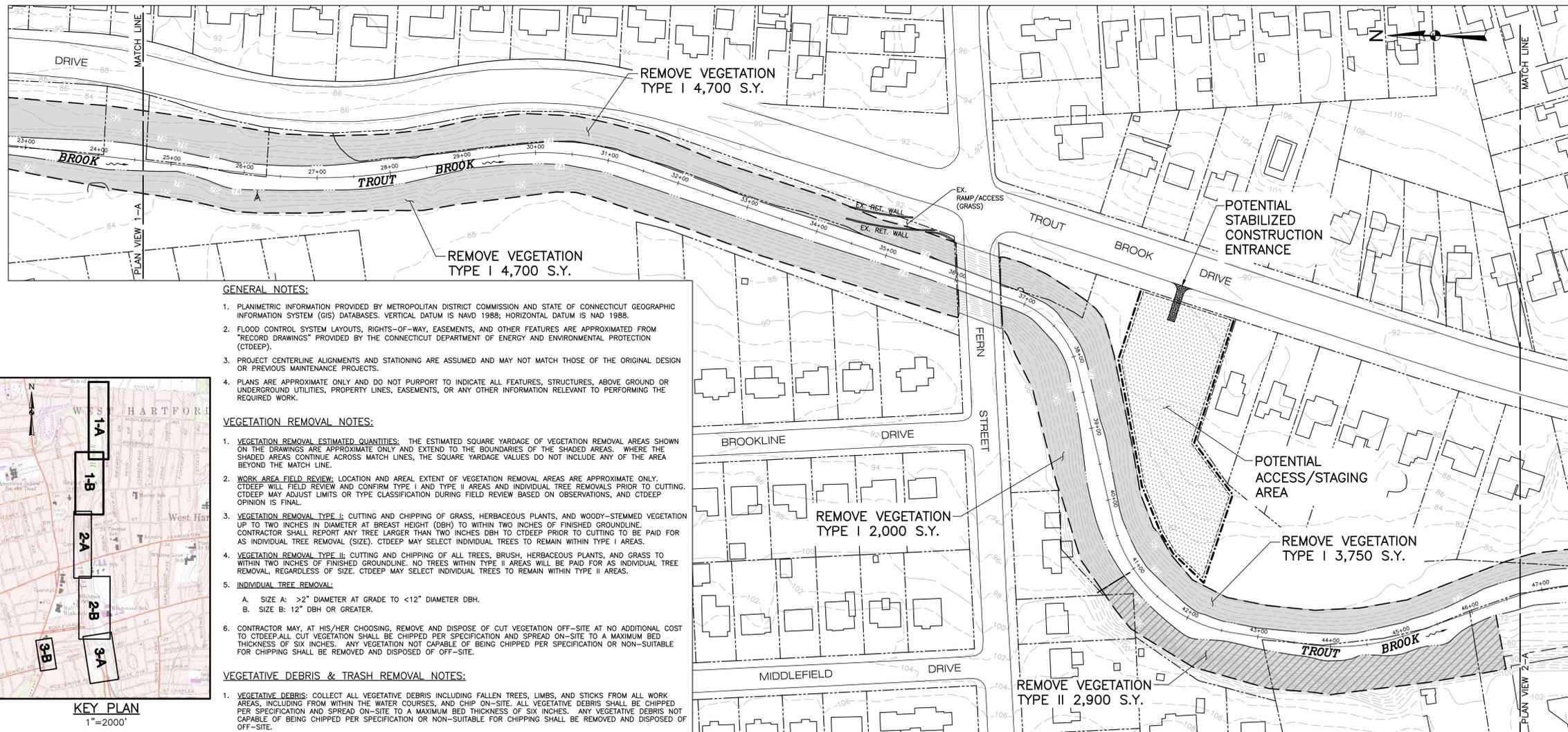
**GZA GeoEnvironmental, Inc.
Engineers and Scientists**

ONE FINANCIAL PLAZA
1350 Main Street, Suite 1400
Springfield, MA 01103
413-726-2100





PLAN VIEW 1-A



PLAN VIEW 1-B

LEGEND

- EDGE OF WATER
- - - PROPERTY LINE
- - - 2 FT. CONTOUR
- - - 10 FT. CONTOUR
- 10+00 — 11+00 PROJECT CENTERLINE (APPROX. BROOK CENTERLINE)
- - - SEDIMENTATION CONTROL BARRIER
- ▨ TYPE I VEGETATION REMOVAL
- ▨ TYPE II VEGETATION REMOVAL
- ▨ SEDIMENT REMOVAL AREA
- +79.3 PROPOSED SPOT GRADE



GENERAL NOTES:

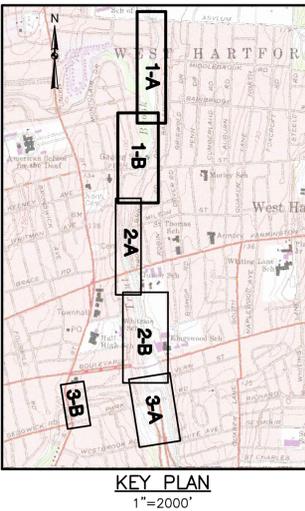
1. PLANIMETRIC INFORMATION PROVIDED BY METROPOLITAN DISTRICT COMMISSION AND STATE OF CONNECTICUT GEOGRAPHIC INFORMATION SYSTEM (GIS) DATABASES. VERTICAL DATUM IS NAVD 1988; HORIZONTAL DATUM IS NAD 1988.
2. FLOOD CONTROL SYSTEM LAYOUTS, RIGHTS-OF-WAY, EASEMENTS, AND OTHER FEATURES ARE APPROXIMATED FROM "RECORD DRAWINGS" PROVIDED BY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP).
3. PROJECT CENTERLINE ALIGNMENTS AND STATIONING ARE ASSUMED AND MAY NOT MATCH THOSE OF THE ORIGINAL DESIGN OR PREVIOUS MAINTENANCE PROJECTS.
4. PLANS ARE APPROXIMATE ONLY AND DO NOT PURPORT TO INDICATE ALL FEATURES, STRUCTURES, ABOVE GROUND OR UNDERGROUND UTILITIES, PROPERTY LINES, EASEMENTS, OR ANY OTHER INFORMATION RELEVANT TO PERFORMING THE REQUIRED WORK.

VEGETATION REMOVAL NOTES:

1. **VEGETATION REMOVAL ESTIMATED QUANTITIES:** THE ESTIMATED SQUARE YARDAGE OF VEGETATION REMOVAL AREAS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND EXTEND TO THE BOUNDARIES OF THE SHADED AREAS. WHERE THE SHADED AREAS CONTINUE ACROSS MATCH LINES, THE SQUARE YARDAGE VALUES DO NOT INCLUDE ANY OF THE AREA BEYOND THE MATCH LINE.
2. **WORK AREA FIELD REVIEW:** LOCATION AND AREAL EXTENT OF VEGETATION REMOVAL AREAS ARE APPROXIMATE ONLY. CTDEEP WILL FIELD REVIEW AND CONFIRM TYPE I AND TYPE II AREAS AND INDIVIDUAL TREE REMOVALS PRIOR TO CUTTING. CTDEEP MAY ADJUST LIMITS OR TYPE CLASSIFICATION DURING FIELD REVIEW BASED ON OBSERVATIONS, AND CTDEEP OPINION IS FINAL.
3. **VEGETATION REMOVAL TYPE I:** CUTTING AND CHIPPING OF GRASS, HERBACEOUS PLANTS, AND WOODY-STEMMED VEGETATION UP TO TWO INCHES IN DIAMETER AT BREAST HEIGHT (DBH) TO WITHIN TWO INCHES OF FINISHED GROUNDLINE. CONTRACTOR SHALL REPORT ANY TREE LARGER THAN TWO INCHES DBH TO CTDEEP PRIOR TO CUTTING TO BE PAID FOR AS INDIVIDUAL TREE REMOVAL (SIZE). CTDEEP MAY SELECT INDIVIDUAL TREES TO REMAIN WITHIN TYPE I AREAS.
4. **VEGETATION REMOVAL TYPE II:** CUTTING AND CHIPPING OF ALL TREES, BRUSH, HERBACEOUS PLANTS, AND GRASS TO WITHIN TWO INCHES OF FINISHED GROUNDLINE. NO TREES WITHIN TYPE II AREAS WILL BE PAID FOR AS INDIVIDUAL TREE REMOVAL, REGARDLESS OF SIZE. CTDEEP MAY SELECT INDIVIDUAL TREES TO REMAIN WITHIN TYPE II AREAS.
5. **INDIVIDUAL TREE REMOVAL:**
 - A. SIZE A: >2" DIAMETER AT GRADE TO <12" DIAMETER DBH.
 - B. SIZE B: 12" DBH OR GREATER.
6. CONTRACTOR MAY, AT HIS/HER CHOOSING, REMOVE AND DISPOSE OF CUT VEGETATION OFF-SITE AT NO ADDITIONAL COST TO CTDEEP. ALL CUT VEGETATION SHALL BE CHIPPED PER SPECIFICATION AND SPREAD ON-SITE TO A MAXIMUM BED THICKNESS OF SIX INCHES. ANY VEGETATION NOT CAPABLE OF BEING CHIPPED PER SPECIFICATION OR NON-SUITABLE FOR CHIPPING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.

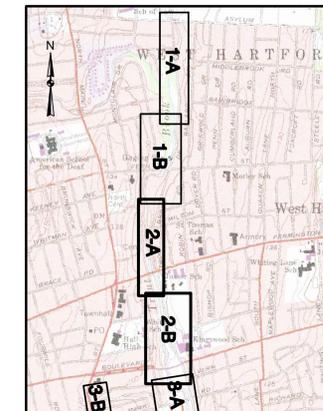
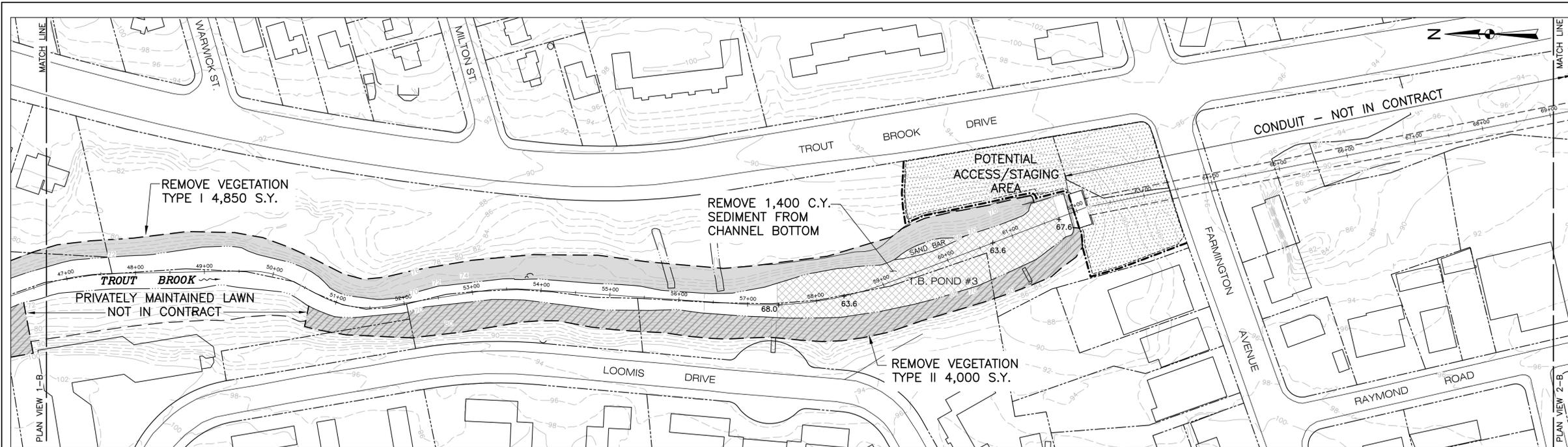
VEGETATIVE DEBRIS & TRASH REMOVAL NOTES:

1. **VEGETATIVE DEBRIS:** COLLECT ALL VEGETATIVE DEBRIS INCLUDING FALLEN TREES, LIMBS, AND STICKS FROM ALL WORK AREAS, INCLUDING FROM WITHIN THE WATER COURSES, AND CHIP ON-SITE. ALL VEGETATIVE DEBRIS SHALL BE CHIPPED PER SPECIFICATION AND SPREAD ON-SITE TO A MAXIMUM BED THICKNESS OF SIX INCHES. ANY VEGETATIVE DEBRIS NOT CAPABLE OF BEING CHIPPED PER SPECIFICATION OR NON-SUITABLE FOR CHIPPING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.
2. **TRASH:** REMOVE ALL TRASH (RUBBISH, TIRES, SHOPPING CARTS, VEHICLES, ETC.) FROM ALL WORK AREAS, INCLUDING FROM WITHIN THE WATER COURSES, AND DISPOSE OFF-SITE.



NO.	ISSUE/DESCRIPTION	BY	DATE
UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.			
SOUTH BRANCH PARK RIVER FLOOD CONTROL MAINTENANCE PROJECT			
ST. JOSEPH'S BROOK STA. 0+00 - STA. 18+00; TROUT BROOK STA. 15+00 - STA. 46+65			
PREPARED BY:	GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR:	CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION (C.T.D.E.P.) 79 ELM STREET HARTFORD, CT
PROJ MGR:	NYA	REVIEWED BY:	NYA
DESIGNED BY:	NYA	DRAWN BY:	EDM
DATE:	JANUARY 2015	PROJECT NO.:	15.0166354.01
		CHECKED BY:	TEJ
		SCALE:	1"=80'
		REVISION NO.:	
			DRAWING
			1

021013 - GZA GeoEnvironmental, Inc. - 15.0166354.01 - CT DEEP Park River Flood Control 15.0166354.01 - CAD/eng/GZA/BACE-PARK_RIVER.dwg [Sheet 1]



GENERAL NOTES:

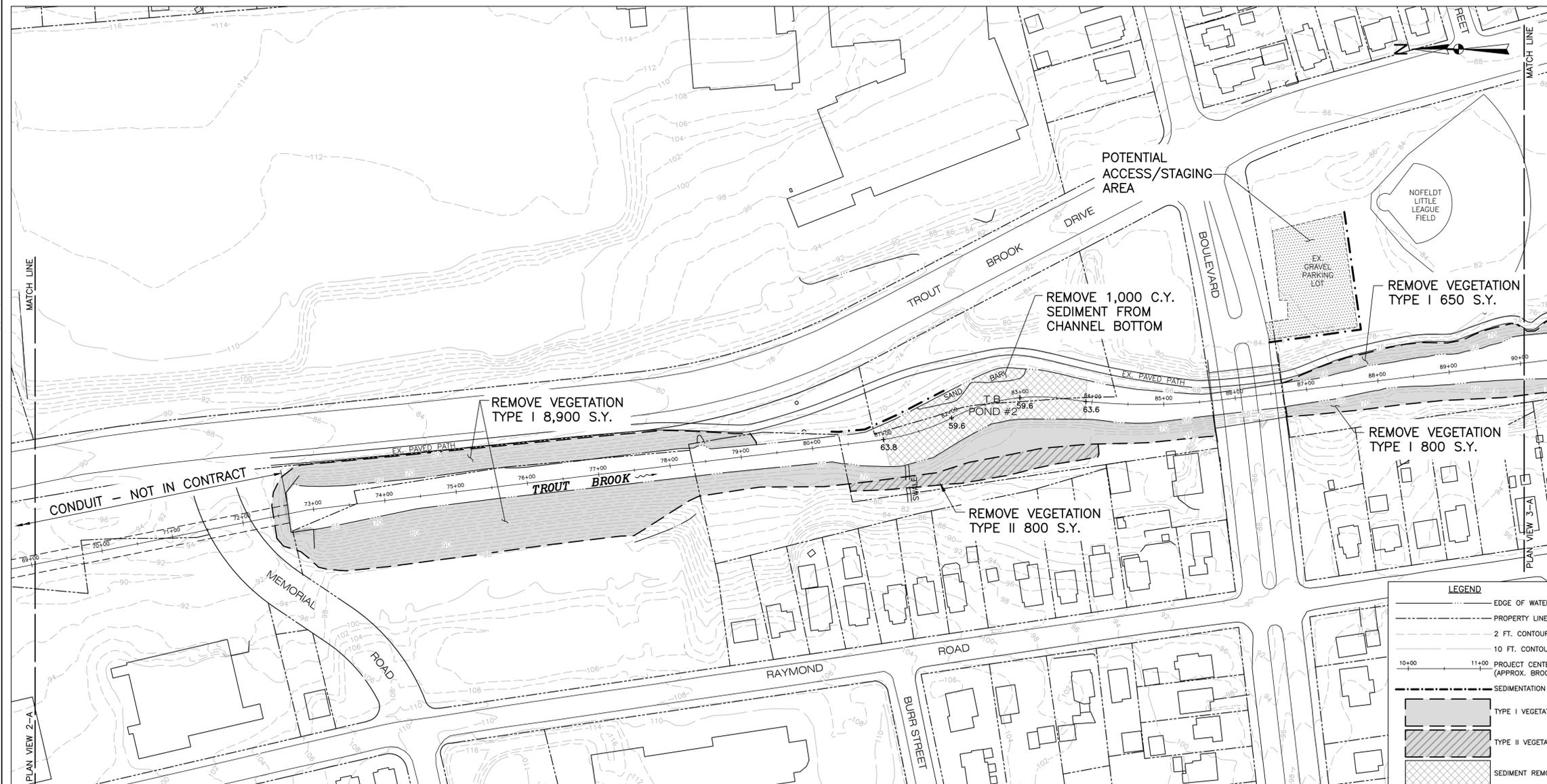
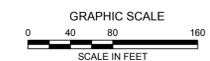
1. PLANIMETRIC INFORMATION PROVIDED BY METROPOLITAN DISTRICT COMMISSION AND STATE OF CONNECTICUT GEOGRAPHIC INFORMATION SYSTEM (GIS) DATABASES. VERTICAL DATUM IS NAVD 1988; HORIZONTAL DATUM IS NAD 1988.
2. FLOOD CONTROL SYSTEM LAYOUTS, RIGHTS-OF-WAY, EASEMENTS, AND OTHER FEATURES ARE APPROXIMATED FROM "RECORD DRAWINGS" PROVIDED BY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP).
3. PROJECT CENTERLINE ALIGNMENTS AND STATIONING ARE ASSUMED AND MAY NOT MATCH THOSE OF THE ORIGINAL DESIGN OR PREVIOUS MAINTENANCE PROJECTS.
4. PLANS ARE APPROXIMATE ONLY AND DO NOT PURPORT TO INDICATE ALL FEATURES, STRUCTURES, ABOVE GROUND OR UNDERGROUND UTILITIES, PROPERTY LINES, EASEMENTS, OR ANY OTHER INFORMATION RELEVANT TO PERFORMING THE REQUIRED WORK.

VEGETATION REMOVAL NOTES:

1. VEGETATION REMOVAL ESTIMATED QUANTITIES: THE ESTIMATED SQUARE YARDAGE OF VEGETATION REMOVAL AREAS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND EXTEND TO THE BOUNDARIES OF THE SHADDED AREAS. WHERE THE SHADDED AREAS CONTINUE ACROSS MATCH LINES, THE SQUARE YARDAGE VALUES DO NOT INCLUDE ANY OF THE AREA BEYOND THE MATCH LINE.
2. WORK AREA FIELD REVIEW: LOCATION AND AREAL EXTENT OF VEGETATION REMOVAL AREAS ARE APPROXIMATE ONLY. CTDEEP WILL FIELD REVIEW AND CONFIRM TYPE I AND TYPE II AREAS AND INDIVIDUAL TREE REMOVALS PRIOR TO CUTTING. CTDEEP MAY ADJUST LIMITS OR TYPE CLASSIFICATION DURING FIELD REVIEW BASED ON OBSERVATIONS, AND CTDEEP OPINION IS FINAL.
3. VEGETATION REMOVAL TYPE I: CUTTING AND CHIPPING OF GRASS, HERBACEOUS PLANTS, AND WOODY-STEMMED VEGETATION UP TO TWO INCHES IN DIAMETER AT BREAST HEIGHT (DBH) TO WITHIN TWO INCHES OF FINISHED GROUNDLINE. CONTRACTOR SHALL REPORT ANY TREE LARGER THAN TWO INCHES DBH TO CTDEEP PRIOR TO CUTTING TO BE PAID FOR AS INDIVIDUAL TREE REMOVAL (SIZE). CTDEEP MAY SELECT INDIVIDUAL TREES TO REMAIN WITHIN TYPE I AREAS.
4. VEGETATION REMOVAL TYPE II: CUTTING AND CHIPPING OF ALL TREES, BRUSH, HERBACEOUS PLANTS, AND GRASS TO WITHIN TWO INCHES OF FINISHED GROUNDLINE. NO TREES WITHIN TYPE II AREAS WILL BE PAID FOR AS INDIVIDUAL TREE REMOVAL, REGARDLESS OF SIZE. CTDEEP MAY SELECT INDIVIDUAL TREES TO REMAIN WITHIN TYPE II AREAS.
5. INDIVIDUAL TREE REMOVAL:
 - A. SIZE A: >2" DIAMETER AT GRADE TO <12" DIAMETER DBH.
 - B. SIZE B: 12" DBH OR GREATER.
6. CONTRACTOR MAY, AT HIS/HER CHOOSING, REMOVE AND DISPOSE OF CUT VEGETATION OFF-SITE AT NO ADDITIONAL COST TO CTDEEP. ALL CUT VEGETATION SHALL BE CHIPPED PER SPECIFICATION AND SPREAD ON-SITE TO A MAXIMUM BED THICKNESS OF SIX INCHES. ANY VEGETATION NOT CAPABLE OF BEING CHIPPED PER SPECIFICATION OR NON-SUITABLE FOR CHIPPING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.

VEGETATIVE DEBRIS & TRASH REMOVAL NOTES:

1. VEGETATIVE DEBRIS: COLLECT ALL VEGETATIVE DEBRIS INCLUDING FALLEN TREES, LIMBS, AND STICKS FROM ALL WORK AREAS, INCLUDING FROM WITHIN THE WATER COURSES, AND CHIP ON-SITE. ALL VEGETATIVE DEBRIS SHALL BE CHIPPED PER SPECIFICATION AND SPREAD ON-SITE TO A MAXIMUM BED THICKNESS OF SIX INCHES. ANY VEGETATIVE DEBRIS NOT CAPABLE OF BEING CHIPPED PER SPECIFICATION OR NON-SUITABLE FOR CHIPPING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.
2. TRASH: REMOVE ALL TRASH (RUBBISH, TIRES, SHOPPING CARTS, VEHICLES, ETC.) FROM ALL WORK AREAS, INCLUDING FROM WITHIN THE WATER COURSES, AND DISPOSE OFF-SITE.

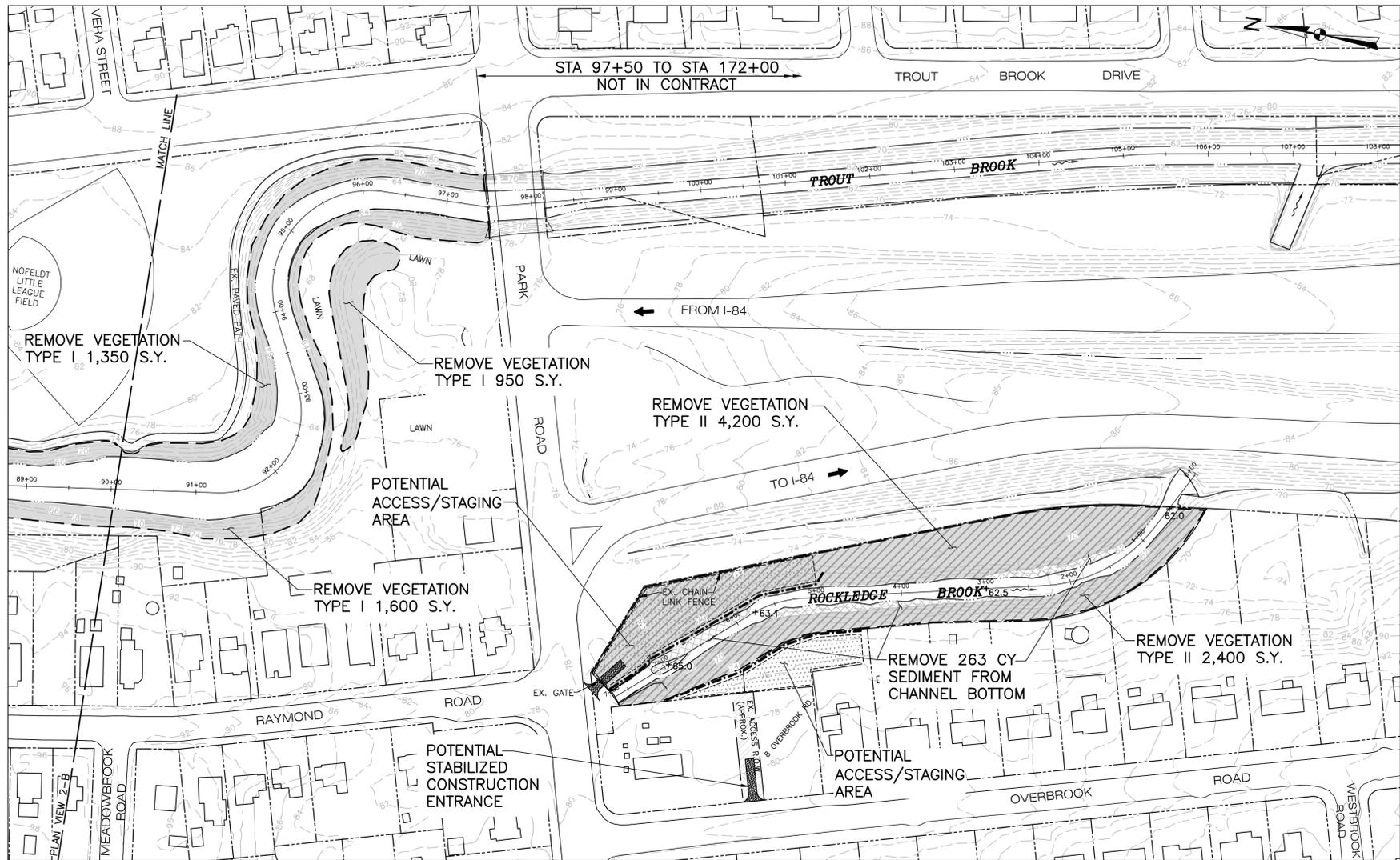


LEGEND

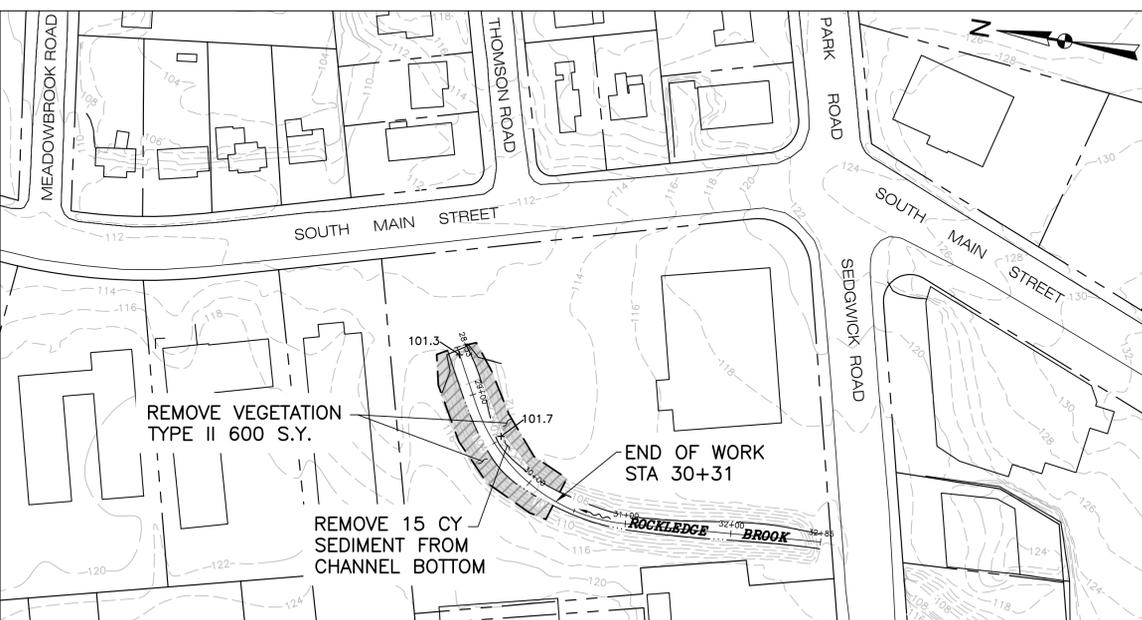
- EDGE OF WATER
- PROPERTY LINE
- 2 FT. CONTOUR
- 10 FT. CONTOUR
- PROJECT CENTERLINE (APPROX. BROOK CENTERLINE)
- SEDIMENTATION CONTROL BARRIER
- TYPE I VEGETATION REMOVAL
- TYPE II VEGETATION REMOVAL
- SEDIMENT REMOVAL AREA
- +79.3 PROPOSED SPOT GRADE

NO.	ISSUE/DESCRIPTION	BY	DATE
UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEORENTOLOGICAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE REPRODUCED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.			
SOUTH BRANCH PARK RIVER FLOOD CONTROL MAINTENANCE PROJECT			
TROUT BROOK STA. 46+65 - STA. 90+00			
PREPARED BY:	GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION C.T.(D.E.E.P.) 79 ELM STREET HARTFORD, CT
PROJ MGR:	REVIEWED BY:	CHECKED BY:	DRAWING
DESIGNED BY:	DRAWN BY:	SCALE:	
DATE:	PROJECT NO.:	REVISION NO.:	2
JANUARY 2015	15.0166354.01		

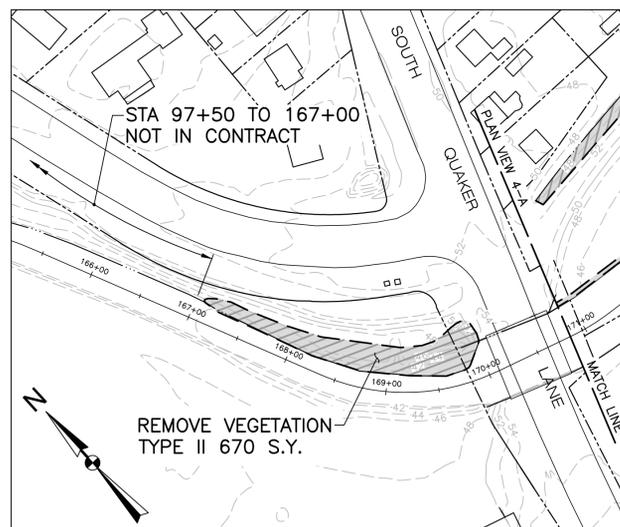
© 2015 - GZA GeoEnvironmental, Inc. GZA-PA-10 166354-01 CT DEEP Park River Flood Control 15.0166354.01 CAD User: GZA/BACE/PARK_RIVER.dwg (Sheet 2)



PLAN VIEW 3-A



PLAN VIEW 3-B



PLAN VIEW 3-C

GENERAL NOTES:

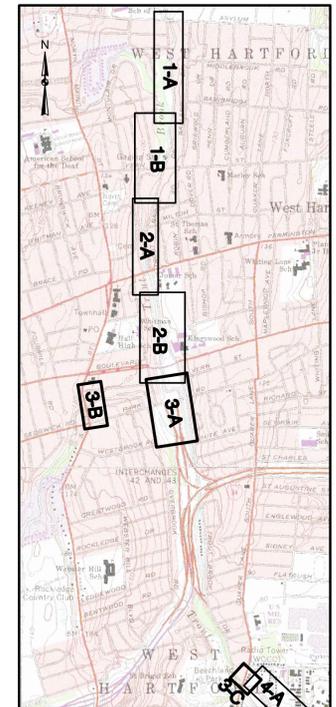
1. PLANIMETRIC INFORMATION PROVIDED BY METROPOLITAN DISTRICT COMMISSION AND STATE OF CONNECTICUT GEOGRAPHIC INFORMATION SYSTEM (GIS) DATABASES. VERTICAL DATUM IS NAVD 1988; HORIZONTAL DATUM IS NAD 1988.
2. FLOOD CONTROL SYSTEM LAYOUTS, RIGHTS-OF-WAY, EASEMENTS, AND OTHER FEATURES ARE APPROXIMATED FROM "RECORD DRAWINGS" PROVIDED BY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP).
3. PROJECT CENTERLINE ALIGNMENTS AND STATIONING ARE ASSUMED AND MAY NOT MATCH THOSE OF THE ORIGINAL DESIGN OR PREVIOUS MAINTENANCE PROJECTS.
4. PLANS ARE APPROXIMATE ONLY AND DO NOT PURPORT TO INDICATE ALL FEATURES, STRUCTURES, ABOVE GROUND OR UNDERGROUND UTILITIES, PROPERTY LINES, EASEMENTS, OR ANY OTHER INFORMATION RELEVANT TO PERFORMING THE REQUIRED WORK.

VEGETATION REMOVAL NOTES:

1. VEGETATION REMOVAL ESTIMATED QUANTITIES: THE ESTIMATED SQUARE YARDAGE OF VEGETATION REMOVAL AREAS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND EXTEND TO THE BOUNDARIES OF THE SHADED AREAS. WHERE THE SHADED AREAS CONTINUE ACROSS MATCH LINES, THE SQUARE YARDAGE VALUES DO NOT INCLUDE ANY OF THE AREA BEYOND THE MATCH LINE.
2. WORK AREA FIELD REVIEW: LOCATION AND AREAL EXTENT OF VEGETATION REMOVAL AREAS ARE APPROXIMATE ONLY. CTDEEP WILL FIELD REVIEW AND CONFIRM TYPE I AND TYPE II AREAS AND INDIVIDUAL TREE REMOVALS PRIOR TO CUTTING. CTDEEP MAY ADJUST LIMITS OR TYPE CLASSIFICATION DURING FIELD REVIEW BASED ON OBSERVATIONS, AND CTDEEP OPINION IS FINAL.
3. VEGETATION REMOVAL TYPE I: CUTTING AND CHIPPING OF GRASS, HERBACEOUS PLANTS, AND WOODY-STEMMED VEGETATION UP TO TWO INCHES IN DIAMETER AT BREAST HEIGHT (DBH) TO WITHIN TWO INCHES OF FINISHED GROUNDLINE. CONTRACTOR SHALL REPORT ANY TREE LARGER THAN TWO INCHES DBH TO CTDEEP PRIOR TO CUTTING TO BE PAID FOR AS INDIVIDUAL TREE REMOVAL (SIZE). CTDEEP MAY SELECT INDIVIDUAL TREES TO REMAIN WITHIN TYPE I AREAS.
4. VEGETATION REMOVAL TYPE II: CUTTING AND CHIPPING OF ALL TREES, BRUSH, HERBACEOUS PLANTS, AND GRASS TO WITHIN TWO INCHES OF FINISHED GROUNDLINE. NO TREES WITHIN TYPE II AREAS WILL BE PAID FOR AS INDIVIDUAL TREE REMOVAL, REGARDLESS OF SIZE. CTDEEP MAY SELECT INDIVIDUAL TREES TO REMAIN WITHIN TYPE II AREAS.
5. INDIVIDUAL TREE REMOVAL:
 - A. SIZE A: >2" DIAMETER AT GRADE TO <12" DIAMETER DBH.
 - B. SIZE B: 12" DBH OR GREATER.
6. CONTRACTOR MAY, AT HIS/HER CHOOSING, REMOVE AND DISPOSE OF CUT VEGETATION OFF-SITE AT NO ADDITIONAL COST TO CTDEEP. ALL CUT VEGETATION SHALL BE CHIPPED PER SPECIFICATION AND SPREAD ON-SITE TO A MAXIMUM BED THICKNESS OF SIX INCHES. ANY VEGETATION NOT CAPABLE OF BEING CHIPPED PER SPECIFICATION OR NON-SUITABLE FOR CHIPPING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.

VEGETATIVE DEBRIS & TRASH REMOVAL NOTES:

1. VEGETATIVE DEBRIS: COLLECT ALL VEGETATIVE DEBRIS INCLUDING FALLEN TREES, LIMBS, AND STICKS FROM ALL WORK AREAS, INCLUDING FROM WITHIN THE WATER COURSES, AND CHIP ON-SITE. ALL VEGETATIVE DEBRIS SHALL BE CHIPPED PER SPECIFICATION AND SPREAD ON-SITE TO A MAXIMUM BED THICKNESS OF SIX INCHES. ANY VEGETATIVE DEBRIS NOT CAPABLE OF BEING CHIPPED PER SPECIFICATION OR NON-SUITABLE FOR CHIPPING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.
2. TRASH: REMOVE ALL TRASH (RUBBISH, TIRES, SHOPPING CARTS, VEHICLES, ETC.) FROM ALL WORK AREAS, INCLUDING FROM WITHIN THE WATER COURSES, AND DISPOSE OFF-SITE.



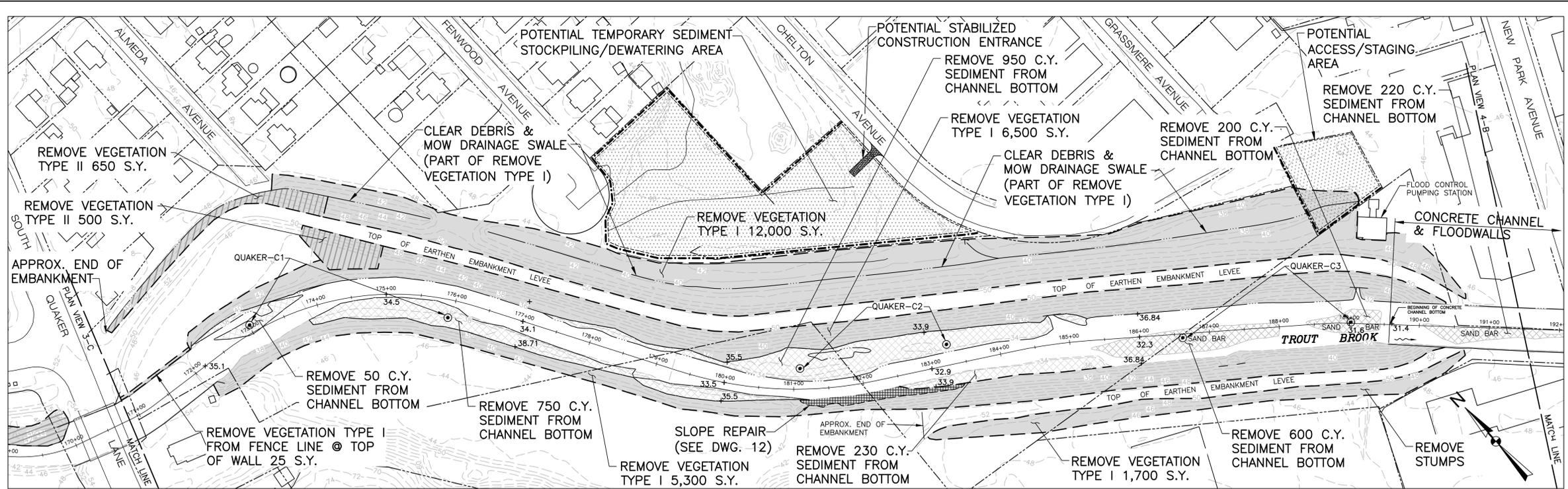
KEY PLAN
1"=2000'

LEGEND

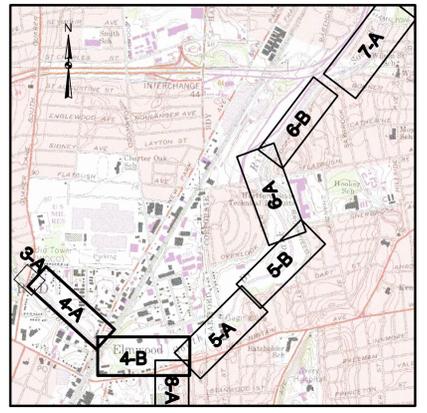
- EDGE OF WATER
- - - PROPERTY LINE
- - - 2 FT. CONTOUR
- - - 10 FT. CONTOUR
- 10+00 — 11+00 PROJECT CENTERLINE (APPROX. BROOK CENTERLINE)
- - - SEDIMENTATION CONTROL BARRIER
- [Hatched Box] TYPE I VEGETATION REMOVAL
- [Cross-hatched Box] TYPE II VEGETATION REMOVAL
- [Dotted Box] SEDIMENT REMOVAL AREA
- + 79.3 PROPOSED SPOT GRADE



NO.	ISSUE/DESCRIPTION	BY	DATE
UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOTECHNICAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE. FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING, THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.			
SOUTH BRANCH PARK RIVER FLOOD CONTROL MAINTENANCE PROJECT TROUT BROOK STA. 90+00 - STA. 97+50 AND STA. 167+00 - STA. 170+00; ROCKLEDGE BROOK STA. 0+00 - STA. 7+68 AND STA. 28+53 - STA. 30+31			
PREPARED BY:	GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR:	CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION (C.T.D.E.P.) 79 ELM STREET HARTFORD, CT
PROJ MGR:	NYA	REVIEWED BY:	NYA
DESIGNED BY:	NYA	DRAWN BY:	EDM
DATE:	JANUARY 2015	CHECKED BY:	TEJ
	15.0166354.01	SCALE:	1"=80'
		REVISION NO.:	
			DRAWING
			3



PLAN VIEW 4-A



KEY PLAN
1"=2000'

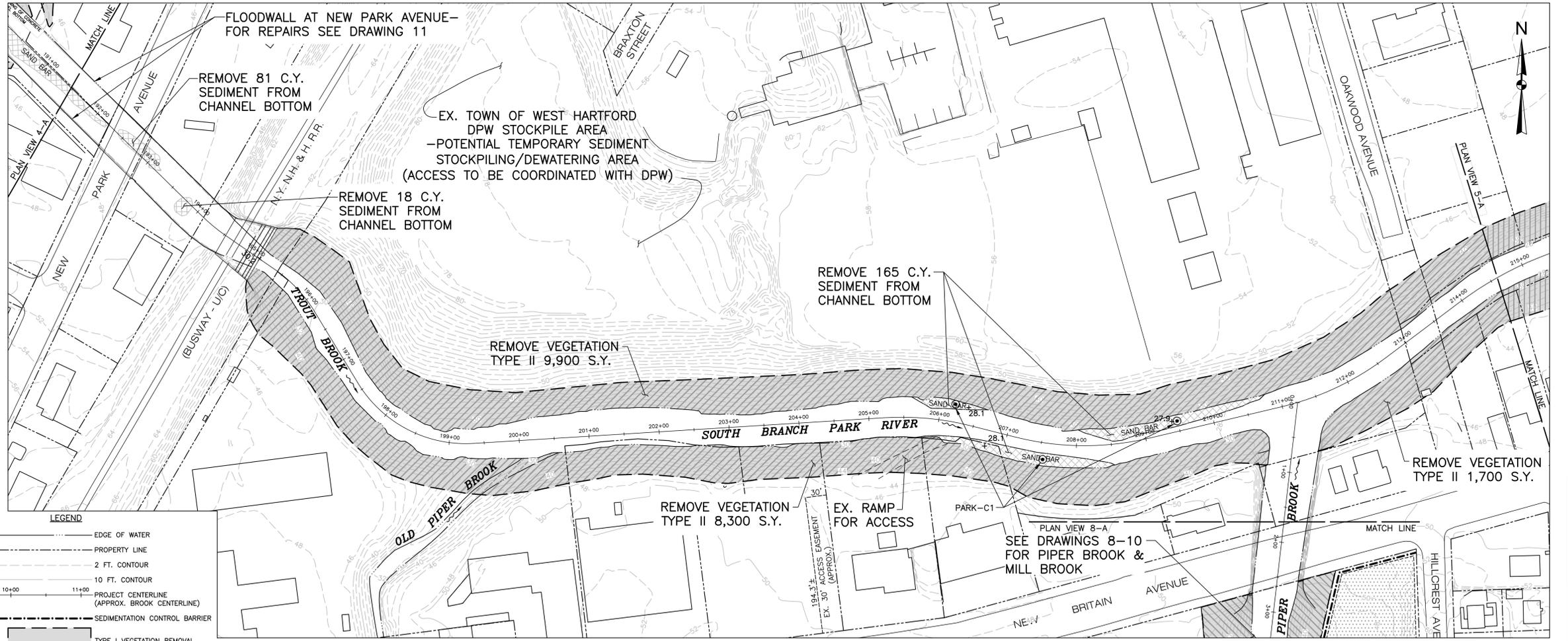
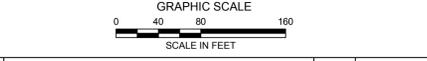
- GENERAL NOTES:**
1. PLANIMETRIC INFORMATION PROVIDED BY METROPOLITAN DISTRICT COMMISSION AND STATE OF CONNECTICUT GEOGRAPHIC INFORMATION SYSTEM (GIS) DATABASES. VERTICAL DATUM IS NAVD 1988; HORIZONTAL DATUM IS NAD 1988.
 2. FLOOD CONTROL SYSTEM LAYOUTS, RIGHTS-OF-WAY, EASEMENTS, AND OTHER FEATURES ARE APPROXIMATED FROM "RECORD DRAWINGS" PROVIDED BY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP).
 3. PROJECT CENTERLINE ALIGNMENTS AND STATIONING ARE ASSUMED AND MAY NOT MATCH THOSE OF THE ORIGINAL DESIGN OR PREVIOUS MAINTENANCE PROJECTS.
 4. PLANS ARE APPROXIMATE ONLY AND DO NOT PURPORT TO INDICATE ALL FEATURES, STRUCTURES, ABOVE GROUND OR UNDERGROUND UTILITIES, PROPERTY LINES, EASEMENTS, OR ANY OTHER INFORMATION RELEVANT TO PERFORMING THE REQUIRED WORK.

VEGETATION REMOVAL NOTES:

1. VEGETATION REMOVAL ESTIMATED QUANTITIES: THE ESTIMATED SQUARE YARDAGE OF VEGETATION REMOVAL AREAS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND EXTEND TO THE BOUNDARIES OF THE SHADDED AREAS. WHERE THE SHADDED AREAS CONTINUE ACROSS MATCH LINES, THE SQUARE YARDAGE VALUES DO NOT INCLUDE ANY OF THE AREA BEYOND THE MATCH LINE.
2. WORK AREA FIELD REVIEW: LOCATION AND AREAL EXTENT OF VEGETATION REMOVAL AREAS ARE APPROXIMATE ONLY. CTDEEP WILL FIELD REVIEW AND CONFIRM TYPE I AND TYPE II AREAS AND INDIVIDUAL TREE REMOVALS PRIOR TO CUTTING. CTDEEP MAY ADJUST LIMITS OR TYPE CLASSIFICATION DURING FIELD REVIEW BASED ON OBSERVATIONS, AND CTDEEP OPINION IS FINAL.
3. VEGETATION REMOVAL TYPE I: CUTTING AND CHIPPING OF GRASS, HERBACEOUS PLANTS, AND WOODY-STEMMED VEGETATION UP TO TWO INCHES IN DIAMETER AT BREAST HEIGHT (DBH) TO WITHIN TWO INCHES OF FINISHED GROUNDLINE. CONTRACTOR SHALL REPORT ANY TREE LARGER THAN TWO INCHES DBH TO CTDEEP PRIOR TO CUTTING TO BE PAID FOR AS INDIVIDUAL TREE REMOVAL (SIZE). CTDEEP MAY SELECT INDIVIDUAL TREES TO REMAIN WITHIN TYPE I AREAS.
4. VEGETATION REMOVAL TYPE II: CUTTING AND CHIPPING OF ALL TREES, BRUSH, HERBACEOUS PLANTS, AND GRASS TO WITHIN TWO INCHES OF FINISHED GROUNDLINE. NO TREES WITHIN TYPE II AREAS WILL BE PAID FOR AS INDIVIDUAL TREE REMOVAL, REGARDLESS OF SIZE. CTDEEP MAY SELECT INDIVIDUAL TREES TO REMAIN WITHIN TYPE II AREAS.
5. INDIVIDUAL TREE REMOVAL:
 - A. SIZE A: >2" DIAMETER AT GRADE TO <12" DIAMETER DBH.
 - B. SIZE B: 12" DBH OR GREATER.
6. CONTRACTOR MAY, AT HIS/HER CHOOSING, REMOVE AND DISPOSE OF CUT VEGETATION OFF-SITE AT NO ADDITIONAL COST TO CTDEEP. ALL CUT VEGETATION SHALL BE CHIPPED PER SPECIFICATION AND SPREAD ON-SITE TO A MAXIMUM BED THICKNESS OF SIX INCHES. ANY VEGETATION NOT CAPABLE OF BEING CHIPPED PER SPECIFICATION OR NON-SUITABLE FOR CHIPPING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.

VEGETATIVE DEBRIS & TRASH REMOVAL NOTES:

1. VEGETATIVE DEBRIS: COLLECT ALL VEGETATIVE DEBRIS INCLUDING FALLEN TREES, LIMBS, AND STICKS FROM ALL WORK AREAS, INCLUDING FROM WITHIN THE WATER COURSES, AND CHIP ON-SITE. ALL VEGETATIVE DEBRIS SHALL BE CHIPPED PER SPECIFICATION AND SPREAD ON-SITE TO A MAXIMUM BED THICKNESS OF SIX INCHES. ANY VEGETATIVE DEBRIS NOT CAPABLE OF BEING CHIPPED PER SPECIFICATION OR NON-SUITABLE FOR CHIPPING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.
2. TRASH: REMOVE ALL TRASH (RUBBISH, TIRES, SHOPPING CARTS, VEHICLES, ETC.) FROM ALL WORK AREAS, INCLUDING FROM WITHIN THE WATER COURSES, AND DISPOSE OFF-SITE.



PLAN VIEW 4-B

LEGEND

- EDGE OF WATER
- PROPERTY LINE
- 2 FT. CONTOUR
- 10 FT. CONTOUR
- PROJECT CENTERLINE (APPROX. BROOK CENTERLINE)
- SEDIMENTATION CONTROL BARRIER
- TYPE I VEGETATION REMOVAL
- TYPE II VEGETATION REMOVAL
- SEDIMENT REMOVAL AREA
- +79.3 PROPOSED SPOT GRADE
- SEDIMENT SAMPLE LOCATION

EARTHEN EMBANKMENT LEVEE RESTORATION NOTES:

1. THE EARTH EMBANKMENT LEVEES ALONG TROUT BROOK BETWEEN SOUTH QUAKER LANE AND NEW PARK AVENUE (STA 171+00 - 191+00) IN WEST HARTFORD WILL REQUIRE TURF ESTABLISHMENT IN AREAS WHERE GRASS COVER IS THIN OR MISSING.
2. PRIOR TO THE START OF WORK, THE ENGINEER WILL DELINEATE AREAS ON THE EMBANKMENTS REQUIRING TURF ESTABLISHMENT.
3. REMOVE VEGETATION AS PRESCRIBED IN THE SPECIFICATIONS AND AS NOTED ON PLAN VIEW 4-A ON DRAWING 4.
4. REMOVE PLANT CUTTINGS AND VEGETATIVE DEBRIS FROM EMBANKMENT SURFACES AND CHIP AND SPREAD AT OTHER PROJECT LOCATIONS TO BE DETERMINED BY CTDEEP.
5. CONDUCT BURROWING ANIMAL CONTROL AND BURROW HOLE ELIMINATION.
6. PLACE TOPSOIL BORROW, SEED, AND MULCH AS NEEDED AND ESTABLISH UNIFORM TURF SURFACES OVER AREAS DELINEATED BY THE ENGINEER.

NO.	ISSUE/DESCRIPTION	BY	DATE

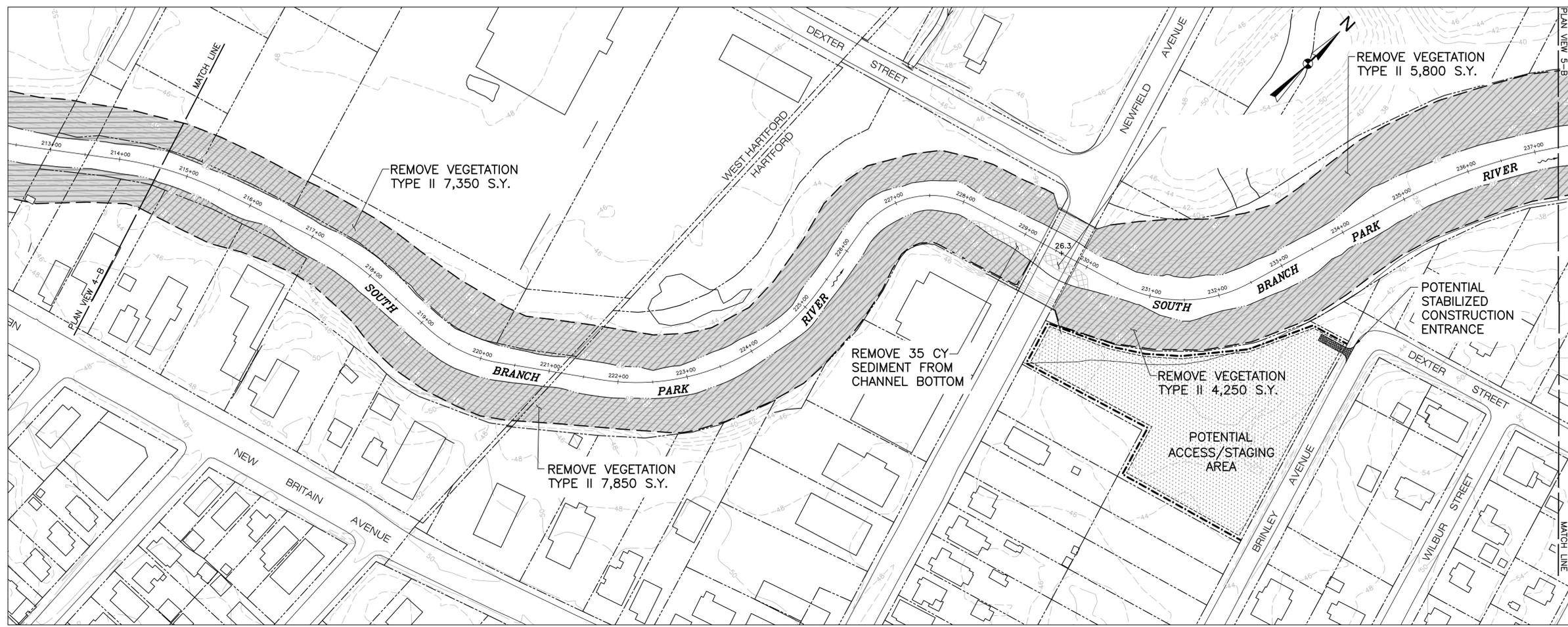
UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE. FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING, THE DRAWING SHALL NOT BE REPRODUCED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

**SOUTH BRANCH PARK RIVER
FLOOD CONTROL MAINTENANCE PROJECT**

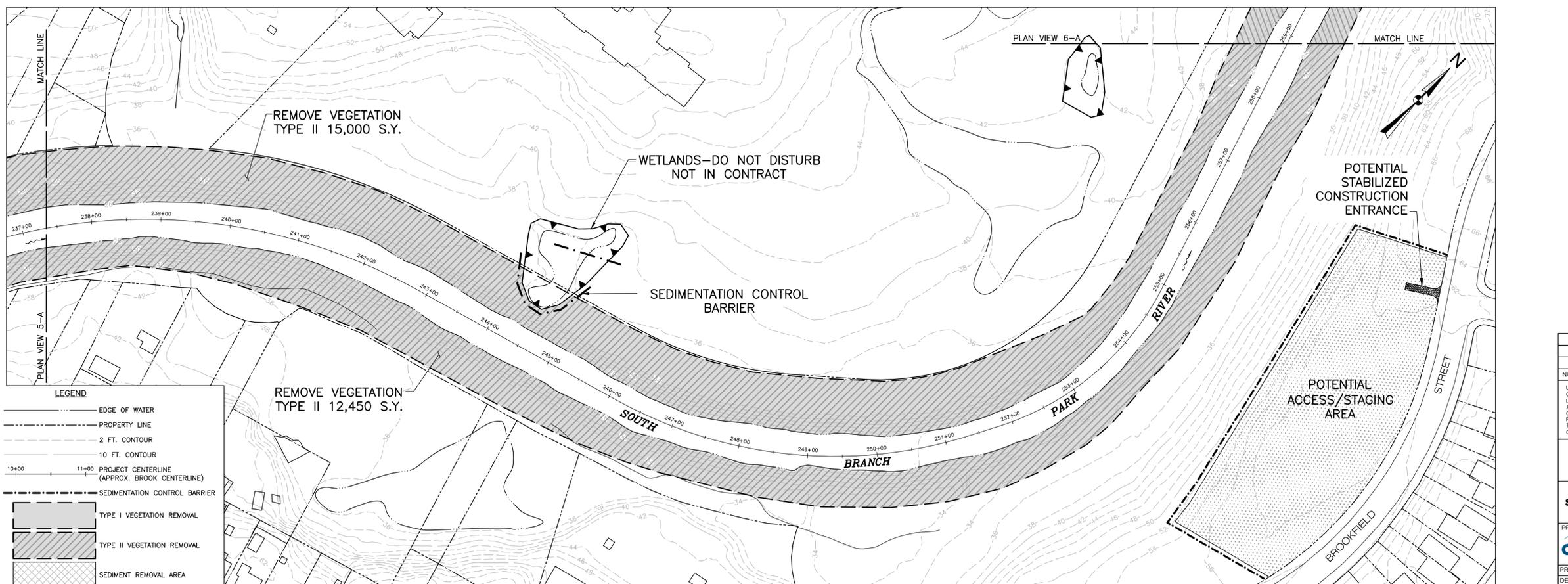
**TROUT BROOK STA. 172+00 - STA. 200+50;
SOUTH BRANCH PARK RIVER STA. 200+50 - STA. 214+50**

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION (CT.D.E.P.) 79 ELM STREET HARTFORD, CT		
PROJ MGR: NYA	REVIEWED BY: NYA	CHECKED BY: TEJ	DRAWING 4
DESIGNED BY: NYA	DRAWN BY: EDM	SCALE: 1"=80'	
DATE: JANUARY 2015	PROJECT NO.: 15.0166354.01	REVISION NO.:	

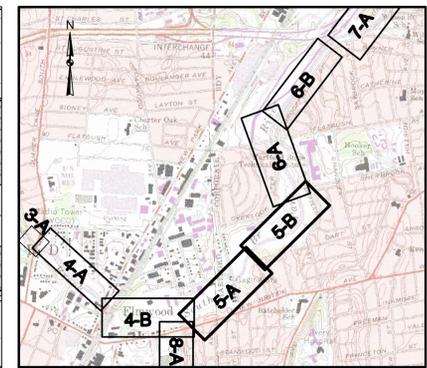
© 2015 - GZA, GeoEnvironmental, Inc. GZA-PA-15.0166354.01 CT DEEP Park River Flood Control 15.0166354.01 CT DEEP Park River Flood Control 15.0166354.01 CAD User: GZA, BAGE-PARK RIVER.dwg (Rev. 01)



PLAN VIEW 5-A



PLAN VIEW 5-B



KEY PLAN
1"=200'

GENERAL NOTES:

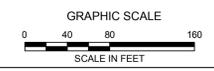
1. PLANIMETRIC INFORMATION PROVIDED BY METROPOLITAN DISTRICT COMMISSION AND STATE OF CONNECTICUT GEOGRAPHIC INFORMATION SYSTEM (GIS) DATABASES. VERTICAL DATUM IS NAVD 1988; HORIZONTAL DATUM IS NAD 1983.
2. FLOOD CONTROL SYSTEM LAYOUTS, RIGHTS-OF-WAY, EASEMENTS, AND OTHER FEATURES ARE APPROXIMATED FROM "RECORD DRAWINGS" PROVIDED BY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP).
3. PROJECT CENTERLINE ALIGNMENTS AND STATIONING ARE ASSUMED AND MAY NOT MATCH THOSE OF THE ORIGINAL DESIGN OR PREVIOUS MAINTENANCE PROJECTS.
4. PLANS ARE APPROXIMATE ONLY AND DO NOT PURPORT TO INDICATE ALL FEATURES, STRUCTURES, ABOVE GROUND OR UNDERGROUND UTILITIES, PROPERTY LINES, EASEMENTS, OR ANY OTHER INFORMATION RELEVANT TO PERFORMING THE REQUIRED WORK.

VEGETATION REMOVAL NOTES:

1. VEGETATION REMOVAL ESTIMATED QUANTITIES: THE ESTIMATED SQUARE YARDAGE OF VEGETATION REMOVAL AREAS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND EXTEND TO THE BOUNDARIES OF THE SHADED AREAS. WHERE THE SHADED AREAS CONTINUE ACROSS MATCH LINES, THE SQUARE YARDAGE VALUES DO NOT INCLUDE ANY OF THE AREA BEYOND THE MATCH LINE.
2. WORK AREA FIELD REVIEW: LOCATION AND AREAL EXTENT OF VEGETATION REMOVAL AREAS ARE APPROXIMATE ONLY. CTDEEP WILL FIELD REVIEW AND CONFIRM TYPE I AND TYPE II AREAS AND INDIVIDUAL TREE REMOVALS PRIOR TO CUTTING. CTDEEP MAY ADJUST LIMITS OR TYPE CLASSIFICATION DURING FIELD REVIEW BASED ON OBSERVATIONS, AND CTDEEP OPINION IS FINAL.
3. VEGETATION REMOVAL TYPE I: CUTTING AND CHIPPING OF GRASS, HERBACEOUS PLANTS, AND WOODY-STEMMED VEGETATION UP TO TWO INCHES IN DIAMETER AT BREST HEIGHT (DBH) TO WITHIN TWO INCHES OF FINISHED GROUNDLINE. CONTRACTOR SHALL REPORT ANY TREE LARGER THAN TWO INCHES DBH TO CTDEEP PRIOR TO CUTTING TO BE PAID FOR AS INDIVIDUAL TREE REMOVAL (SIZE). CTDEEP MAY SELECT INDIVIDUAL TREES TO REMAIN WITHIN TYPE I AREAS.
4. VEGETATION REMOVAL TYPE II: CUTTING AND CHIPPING OF ALL TREES, BRUSH, HERBACEOUS PLANTS, AND GRASS TO WITHIN TWO INCHES OF FINISHED GROUNDLINE. NO TREES WITHIN TYPE II AREAS WILL BE PAID FOR AS INDIVIDUAL TREE REMOVAL, REGARDLESS OF SIZE. CTDEEP MAY SELECT INDIVIDUAL TREES TO REMAIN WITHIN TYPE II AREAS.
5. INDIVIDUAL TREE REMOVAL:
 - A. SIZE A: >2" DIAMETER AT GRADE TO <12" DIAMETER DBH.
 - B. SIZE B: 12" DBH OR GREATER.
6. CONTRACTOR MAY, AT HIS/HER CHOOSING, REMOVE AND DISPOSE OF CUT VEGETATION OFF-SITE AT NO ADDITIONAL COST TO CTDEEP. ALL CUT VEGETATION SHALL BE CHIPPED PER SPECIFICATION AND SPREAD ON-SITE TO A MAXIMUM BED THICKNESS OF SIX INCHES. ANY VEGETATION NOT CAPABLE OF BEING CHIPPED PER SPECIFICATION OR NON-SUITABLE FOR CHIPPING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.

VEGETATIVE DEBRIS & TRASH REMOVAL NOTES:

1. VEGETATIVE DEBRIS: COLLECT ALL VEGETATIVE DEBRIS INCLUDING FALLEN TREES, LIMBS, AND STICKS FROM ALL WORK AREAS, INCLUDING FROM WITHIN THE WATER COURSES, AND CHIP ON-SITE. ALL VEGETATIVE DEBRIS SHALL BE CHIPPED PER SPECIFICATION AND SPREAD ON-SITE TO A MAXIMUM BED THICKNESS OF SIX INCHES. ANY VEGETATIVE DEBRIS NOT CAPABLE OF BEING CHIPPED PER SPECIFICATION OR NON-SUITABLE FOR CHIPPING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.
2. TRASH: REMOVE ALL TRASH (RUBBISH, TIRES, SHOPPING CARTS, VEHICLES, ETC.) FROM ALL WORK AREAS, INCLUDING FROM WITHIN THE WATER COURSES, AND DISPOSE OFF-SITE.



© 2013 - GZA GeoEnvironmental, Inc. GZA-JA-168300 - 0 168300-15.01168354.01 CT DEEP Park River Flood Control 15.01168354.01 CAD/Map/GZA/BACE-PARK RIVER.dwg [B1] 5/

LEGEND

- EDGE OF WATER
- - - PROPERTY LINE
- - - 2 FT. CONTOUR
- - - 10 FT. CONTOUR
- - - PROJECT CENTERLINE (APPROX. BROOK CENTERLINE)
- - - SEDIMENTATION CONTROL BARRIER
- ▨ TYPE I VEGETATION REMOVAL
- ▨ TYPE II VEGETATION REMOVAL
- ▨ SEDIMENT REMOVAL AREA
- +79.3 PROPOSED SPOT GRADE

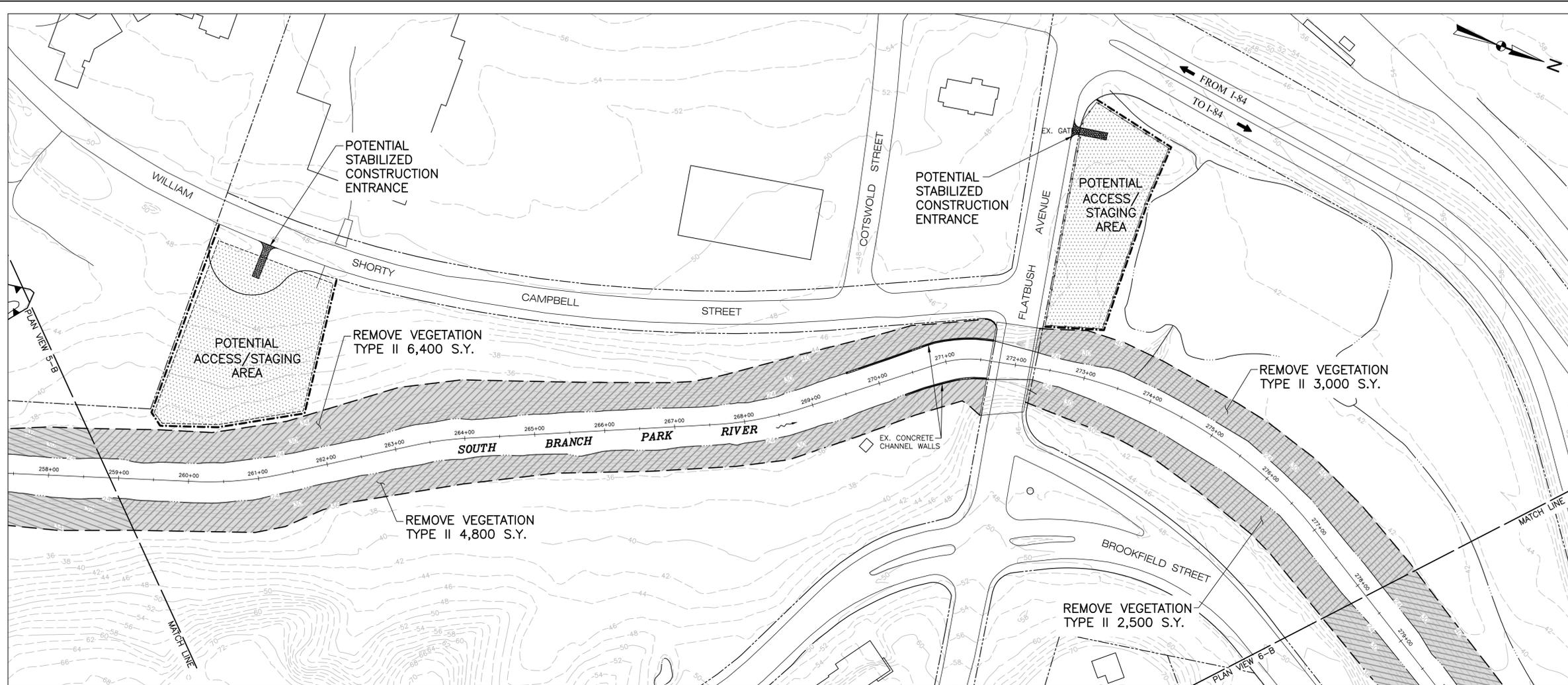
NO.	ISSUE/DESCRIPTION	BY	DATE

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

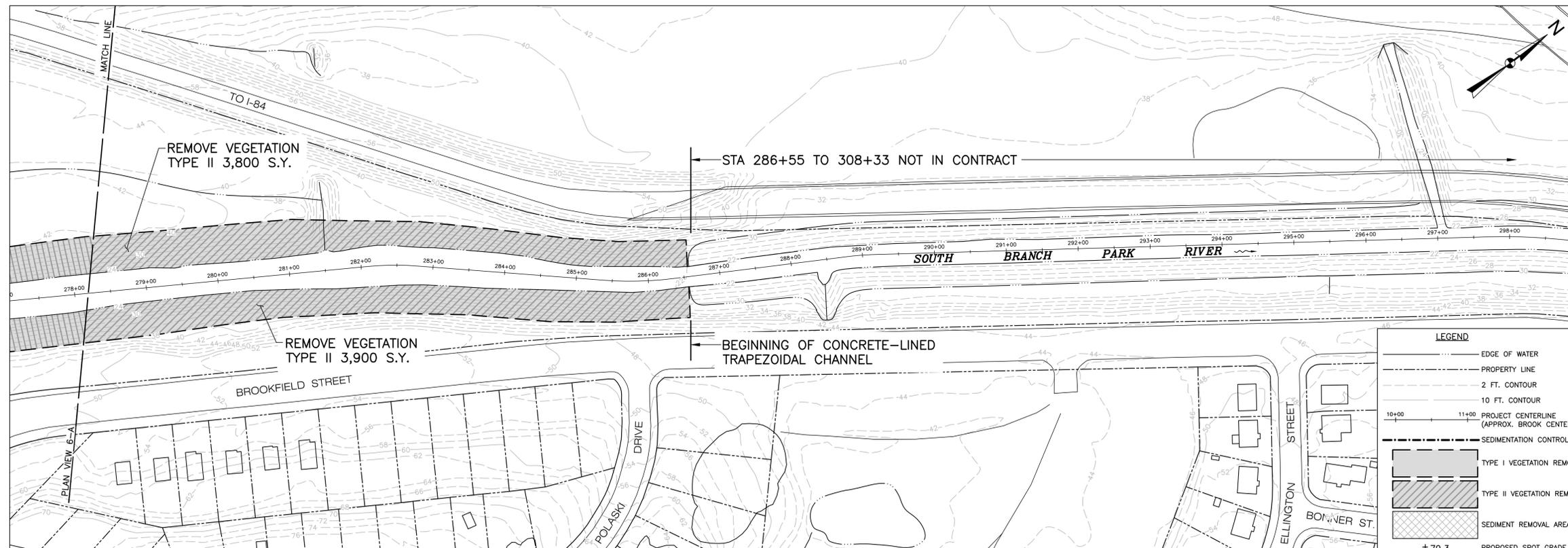
**SOUTH BRANCH PARK RIVER
FLOOD CONTROL MAINTENANCE PROJECT**

SOUTH BRANCH PARK RIVER STA. 214+50 - STA. 258+50

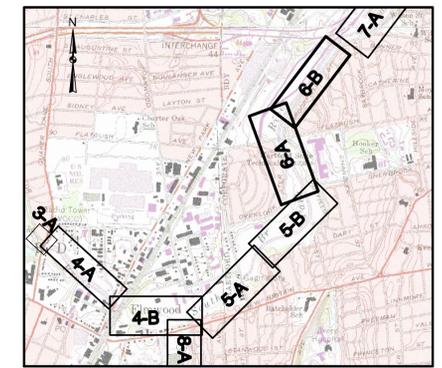
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION C.T.(D.E.P.) 79 ELM STREET HARTFORD, CT		
PROJ MGR: NYA	REVIEWED BY: NYA	CHECKED BY: TEJ	DRAWING 5
DESIGNED BY: NYA	DRAWN BY: EDM	SCALE: 1"=80'	
DATE: JANUARY 2015	PROJECT NO.: 15.01168354.01	REVISION NO.:	



PLAN VIEW 6-A



PLAN VIEW 6-B



KEY PLAN
1"=2000'

GENERAL NOTES:

1. PLANIMETRIC INFORMATION PROVIDED BY METROPOLITAN DISTRICT COMMISSION AND STATE OF CONNECTICUT GEOGRAPHIC INFORMATION SYSTEM (GIS) DATABASES. VERTICAL DATUM IS NAVD 1988; HORIZONTAL DATUM IS NAD 1988.
2. FLOOD CONTROL SYSTEM LAYOUTS, RIGHTS-OF-WAY, EASEMENTS, AND OTHER FEATURES ARE APPROXIMATED FROM "RECORD DRAWINGS" PROVIDED BY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP).
3. PROJECT CENTERLINE ALIGNMENTS AND STATIONING ARE ASSUMED AND MAY NOT MATCH THOSE OF THE ORIGINAL DESIGN OR PREVIOUS MAINTENANCE PROJECTS.
4. PLANS ARE APPROXIMATE ONLY AND DO NOT PURPORT TO INDICATE ALL FEATURES, STRUCTURES, ABOVE GROUND OR UNDERGROUND UTILITIES, PROPERTY LINES, EASEMENTS, OR ANY OTHER INFORMATION RELEVANT TO PERFORMING THE REQUIRED WORK.

VEGETATION REMOVAL NOTES:

1. **VEGETATION REMOVAL ESTIMATED QUANTITIES:** THE ESTIMATED SQUARE YARDAGE OF VEGETATION REMOVAL AREAS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND EXTEND TO THE BOUNDARIES OF THE SHADED AREAS. WHERE THE SHADED AREAS CONTINUE ACROSS MATCH LINES, THE SQUARE YARDAGE VALUES DO NOT INCLUDE ANY OF THE AREA BEYOND THE MATCH LINE.
2. **WORK AREA FIELD REVIEW:** LOCATION AND AREAL EXTENT OF VEGETATION REMOVAL AREAS ARE APPROXIMATE ONLY. CTDEEP WILL FIELD REVIEW AND CONFIRM TYPE I AND TYPE II AREAS AND INDIVIDUAL TREE REMOVALS PRIOR TO CUTTING. CTDEEP MAY ADJUST LIMITS OR TYPE CLASSIFICATION DURING FIELD REVIEW BASED ON OBSERVATIONS, AND CTDEEP OPINION IS FINAL.
3. **VEGETATION REMOVAL TYPE I:** CUTTING AND CHIPPING OF GRASS, HERBACEOUS PLANTS, AND WOODY-STEMMED VEGETATION UP TO TWO INCHES IN DIAMETER AT BREAST HEIGHT (DBH) TO WITHIN TWO INCHES OF FINISHED GROUNDLINE. CONTRACTOR SHALL REPORT ANY TREE LARGER THAN TWO INCHES DBH TO CTDEEP PRIOR TO CUTTING TO BE PAID FOR AS INDIVIDUAL TREE REMOVAL (SIZE). CTDEEP MAY SELECT INDIVIDUAL TREES TO REMAIN WITHIN TYPE I AREAS.
4. **VEGETATION REMOVAL TYPE II:** CUTTING AND CHIPPING OF ALL TREES, BRUSH, HERBACEOUS PLANTS, AND GRASS TO WITHIN TWO INCHES OF FINISHED GROUNDLINE. NO TREES WITHIN TYPE II AREAS WILL BE PAID FOR AS INDIVIDUAL TREE REMOVAL, REGARDLESS OF SIZE. CTDEEP MAY SELECT INDIVIDUAL TREES TO REMAIN WITHIN TYPE II AREAS.
5. **INDIVIDUAL TREE REMOVAL:**
 - A. SIZE A: >2" DIAMETER AT GRADE TO <12" DIAMETER DBH.
 - B. SIZE B: 12" DBH OR GREATER.
6. CONTRACTOR MAY AT HIS/HER CHOOSING, REMOVE AND DISPOSE OF CUT VEGETATION OFF-SITE AT NO ADDITIONAL COST TO CTDEEP. ALL CUT VEGETATION SHALL BE CHIPPED PER SPECIFICATION AND SPREAD ON-SITE TO A MAXIMUM BED THICKNESS OF SIX INCHES. ANY VEGETATION NOT CAPABLE OF BEING CHIPPED PER SPECIFICATION OR NON-SUITABLE FOR CHIPPING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.

VEGETATIVE DEBRIS & TRASH REMOVAL NOTES:

1. **VEGETATIVE DEBRIS:** COLLECT ALL VEGETATIVE DEBRIS INCLUDING FALLEN TREES, LIMBS, AND STICKS FROM ALL WORK AREAS, INCLUDING FROM WITHIN THE WATER COURSES, AND CHIP ON-SITE. ALL VEGETATIVE DEBRIS SHALL BE CHIPPED PER SPECIFICATION AND SPREAD ON-SITE TO A MAXIMUM BED THICKNESS OF SIX INCHES. ANY VEGETATIVE DEBRIS NOT CAPABLE OF BEING CHIPPED PER SPECIFICATION OR NON-SUITABLE FOR CHIPPING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.
2. **TRASH:** REMOVE ALL TRASH (RUBBISH, TIRES, SHOPPING CARTS, VEHICLES, ETC.) FROM ALL WORK AREAS, INCLUDING FROM WITHIN THE WATER COURSES, AND DISPOSE OFF-SITE.

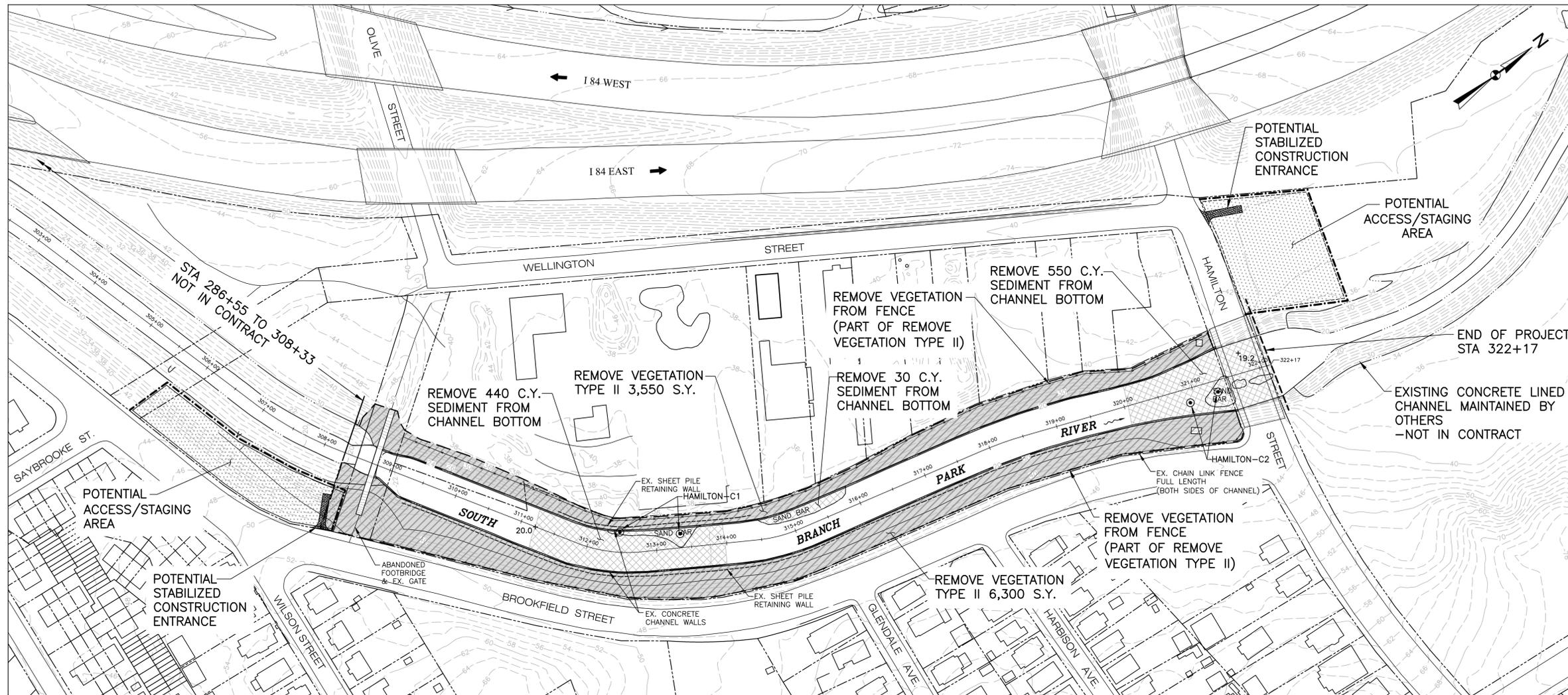


LEGEND

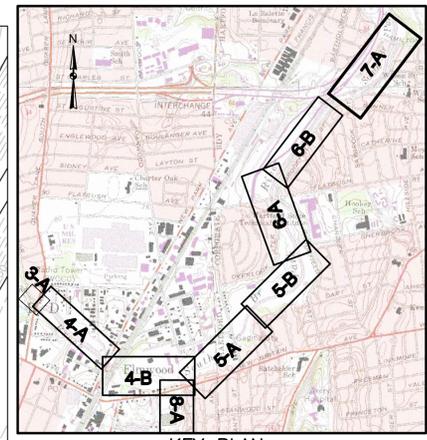
	EDGE OF WATER
	PROPERTY LINE
	2 FT. CONTOUR
	10 FT. CONTOUR
	PROJECT CENTERLINE (APPROX. BROOK CENTERLINE)
	SEDIMENTATION CONTROL BARRIER
	TYPE I VEGETATION REMOVAL
	TYPE II VEGETATION REMOVAL
	SEDIMENT REMOVAL AREA
	+79.3 PROPOSED SPOT GRADE
	SEDIMENT SAMPLE LOCATION

NO.	ISSUE/DESCRIPTION	BY	DATE
UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND NOT TO BE USED FOR ANY OTHER PROJECT. THE DRAWING SHALL NOT BE REPRODUCED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.			
SOUTH BRANCH PARK RIVER FLOOD CONTROL MAINTENANCE PROJECT			
SOUTH BRANCH PARK RIVER STA. 258+50 - STA. 286+55			
PREPARED BY:	GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR:	CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION C.T.(D.E.E.P.) 79 ELM STREET HARTFORD, CT
PROJ MGR:	NYA	REVIEWED BY:	NYA
DESIGNED BY:	NYA	DRAWN BY:	EDM
DATE:	JANUARY 2015	CHECKED BY:	TEJ
		SCALE:	1"=80'
		PROJECT NO.:	15.0166354.01
		REVISION NO.:	
			DRAWING 6

© 2015 - GZA GeoEnvironmental, Inc. GZA-JA-166300 - 0 166300-15.0166354.01 CT DEEP Park River Flood Control Maintenance Project, GZA, BANC-PARK RIVER.dwg [B1] (B1 6)



PLAN VIEW 7-A

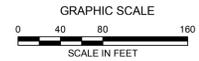


KEY PLAN
1"=2000'

- GENERAL NOTES:**
1. PLANIMETRIC INFORMATION PROVIDED BY METROPOLITAN DISTRICT COMMISSION AND STATE OF CONNECTICUT GEOGRAPHIC INFORMATION SYSTEM (GIS) DATABASES. VERTICAL DATUM IS NAVD 1988; HORIZONTAL DATUM IS NAD 1988.
 2. FLOOD CONTROL SYSTEM LAYOUTS, RIGHTS-OF-WAY, EASEMENTS, AND OTHER FEATURES ARE APPROXIMATED FROM "RECORD DRAWINGS" PROVIDED BY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP).
 3. PROJECT CENTERLINE ALIGNMENTS AND STATIONING ARE ASSUMED AND MAY NOT MATCH THOSE OF THE ORIGINAL DESIGN OR PREVIOUS MAINTENANCE PROJECTS.
 4. PLANS ARE APPROXIMATE ONLY AND DO NOT PURPORT TO INDICATE ALL FEATURES, STRUCTURES, ABOVE GROUND OR UNDERGROUND UTILITIES, PROPERTY LINES, EASEMENTS, OR ANY OTHER INFORMATION RELEVANT TO PERFORMING THE REQUIRED WORK.

- VEGETATION REMOVAL NOTES:**
1. VEGETATION REMOVAL ESTIMATED QUANTITIES: THE ESTIMATED SQUARE YARDAGE OF VEGETATION REMOVAL AREAS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND EXTEND TO THE BOUNDARIES OF THE SHADDED AREAS. WHERE THE SHADDED AREAS CONTINUE ACROSS MATCH LINES, THE SQUARE YARDAGE VALUES DO NOT INCLUDE ANY OF THE AREA BEYOND THE MATCH LINE.
 2. WORK AREA FIELD REVIEW: LOCATION AND AREAL EXTENT OF VEGETATION REMOVAL AREAS ARE APPROXIMATE ONLY. CTDEEP WILL FIELD REVIEW AND CONFIRM TYPE I AND TYPE II AREAS AND INDIVIDUAL TREE REMOVALS PRIOR TO CUTTING. CTDEEP MAY ADJUST LIMITS OR TREE CLASSIFICATION DURING FIELD REVIEW BASED ON OBSERVATIONS, AND CTDEEP OPINION IS FINAL.
 3. VEGETATION REMOVAL TYPE I: CUTTING AND CHIPPING OF GRASS, HERBACEOUS PLANTS, AND WOODY-STEMMED VEGETATION UP TO TWO INCHES IN DIAMETER AT BREAST HEIGHT (DBH) TO WITHIN TWO INCHES OF FINISHED GROUNDLINE. CONTRACTOR SHALL REPORT ANY TREE LARGER THAN TWO INCHES DBH TO CTDEEP PRIOR TO CUTTING TO BE PAID FOR AS INDIVIDUAL TREE REMOVAL (SIZE). CTDEEP MAY SELECT INDIVIDUAL TREES TO REMAIN WITHIN TYPE I AREAS.
 4. VEGETATION REMOVAL TYPE II: CUTTING AND CHIPPING OF ALL TREES, BRUSH, HERBACEOUS PLANTS, AND GRASS TO WITHIN TWO INCHES OF FINISHED GROUNDLINE. NO TREES WITHIN TYPE II AREAS WILL BE PAID FOR AS INDIVIDUAL TREE REMOVAL, REGARDLESS OF SIZE. CTDEEP MAY SELECT INDIVIDUAL TREES TO REMAIN WITHIN TYPE II AREAS.
 5. INDIVIDUAL TREE REMOVAL:
 - A. SIZE A: >2" DIAMETER AT GRADE TO <12" DIAMETER DBH.
 - B. SIZE B: 12" DBH OR GREATER.
 6. CONTRACTOR MAY, AT HIS/HER CHOOSING, REMOVE AND DISPOSE OF CUT VEGETATION OFF-SITE AT NO ADDITIONAL COST TO CTDEEP. ALL CUT VEGETATION SHALL BE CHIPPED PER SPECIFICATION AND SPREAD ON-SITE TO A MAXIMUM BED THICKNESS OF SIX INCHES. ANY VEGETATION NOT CAPABLE OF BEING CHIPPED PER SPECIFICATION OR NON-SUITABLE FOR CHIPPING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.

- VEGETATIVE DEBRIS & TRASH REMOVAL NOTES:**
1. VEGETATIVE DEBRIS: COLLECT ALL VEGETATIVE DEBRIS INCLUDING FALLEN TREES, LIMBS, AND STICKS FROM ALL WORK AREAS, INCLUDING FROM WITHIN THE WATER COURSES, AND CHIP ON-SITE. ALL VEGETATIVE DEBRIS SHALL BE CHIPPED PER SPECIFICATION AND SPREAD ON-SITE TO A MAXIMUM BED THICKNESS OF SIX INCHES. ANY VEGETATIVE DEBRIS NOT CAPABLE OF BEING CHIPPED PER SPECIFICATION OR NON-SUITABLE FOR CHIPPING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.
 2. TRASH: REMOVE ALL TRASH (RUBBISH, TIRES, SHOPPING CARTS, VEHICLES, ETC.) FROM ALL WORK AREAS, INCLUDING FROM WITHIN THE WATER COURSES, AND DISPOSE OFF-SITE.



LEGEND

- EDGE OF WATER
- - - PROPERTY LINE
- - - 2 FT. CONTOUR
- - - 10 FT. CONTOUR
- - - PROJECT CENTERLINE (APPROX. BROOK CENTERLINE)
- - - SEDIMENTATION CONTROL BARRIER
- ▨ TYPE I VEGETATION REMOVAL
- ▩ TYPE II VEGETATION REMOVAL
- ▤ SEDIMENT REMOVAL AREA
- + 79.3 PROPOSED SPOT GRADE
- ⊙ SEDIMENT SAMPLE LOCATION

- NOTES:**
1. EXISTING CHANNEL FROM STA 308+33 TO STA 322+17 IS RECTANGULAR CONCRETE LINED.
 2. VEGETATION REMOVAL GENERALLY APPLIES TO THE AREA ON THE LANDSIDE OF THE VERTICAL CHANNEL WALLS. HOWEVER, ANY VEGETATION GROWING IN CONCRETE BREAKS OR JOINTS SHALL ALSO BE REMOVED.
 3. REMOVE VEGETATION FROM BOTH SIDES OF THE SHEET PILE RETAINING WALLS.
 4. REMOVE ACCUMULATED SEDIMENTS FROM CHANNEL BOTTOM WHERE INDICATED ON THE PLANS OR AS DETERMINED IN THE FIELD BY C.T.D.E.E.P.

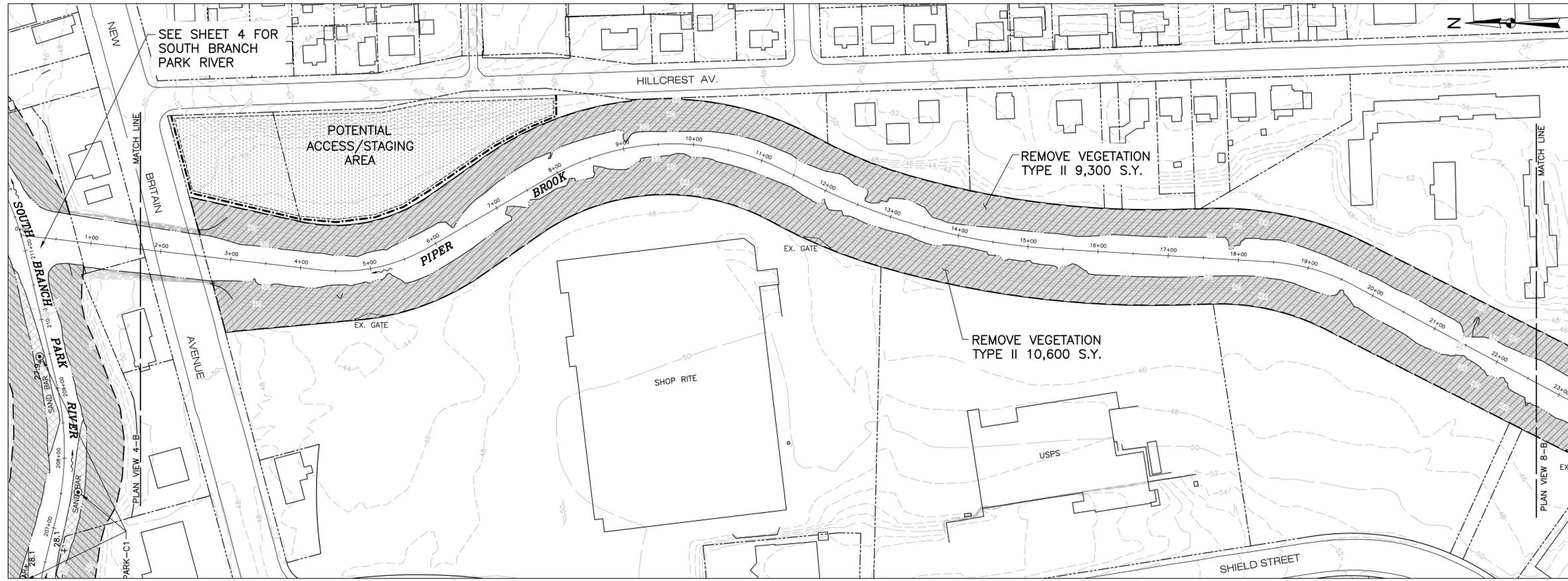
NO.	ISSUE/DESCRIPTION	BY	DATE

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE. FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING, THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

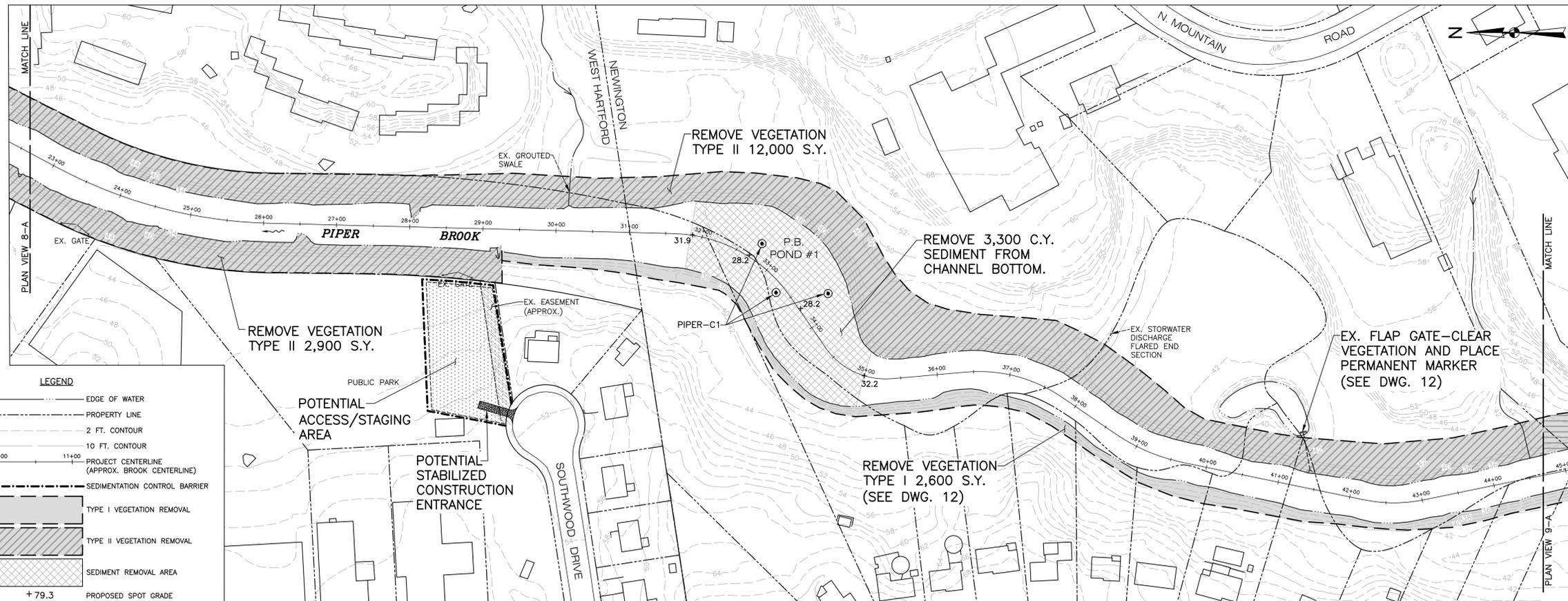
**SOUTH BRANCH PARK RIVER
FLOOD CONTROL MAINTENANCE PROJECT**

**SOUTH BRANCH PARK RIVER STA. 308+33 - STA. 322+17
END OF PROJECT**

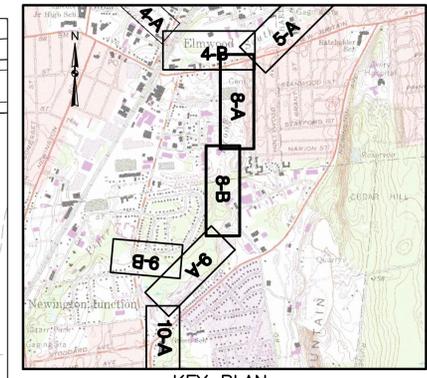
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION (C.T.D.E.E.P.) 79 ELM STREET HARTFORD, CT		
PROJ MGR: NYA	REVIEWED BY: NYA	CHECKED BY: TEJ	DRAWING 7
DESIGNED BY: NYA	DRAWN BY: EDM	SCALE: 1"=80'	
DATE: JANUARY 2015	PROJECT NO.: 15.0166354.01	REVISION NO.:	



PLAN VIEW 8-A



PLAN VIEW 8-B



KEY PLAN
1"=2000'

GENERAL NOTES:

1. PLANIMETRIC INFORMATION PROVIDED BY METROPOLITAN DISTRICT COMMISSION AND STATE OF CONNECTICUT GEOGRAPHIC INFORMATION SYSTEM (GIS) DATABASES. VERTICAL DATUM IS NAVD 1988; HORIZONTAL DATUM IS NAD 1983.
2. FLOOD CONTROL SYSTEM LAYOUTS, RIGHTS-OF-WAY, EASEMENTS, AND OTHER FEATURES ARE APPROXIMATED FROM "RECORD DRAWINGS" PROVIDED BY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP).
3. PROJECT CENTERLINE ALIGNMENTS AND STATIONING ARE ASSUMED AND MAY NOT MATCH THOSE OF THE ORIGINAL DESIGN OR PREVIOUS MAINTENANCE PROJECTS.
4. PLANS ARE APPROXIMATE ONLY AND DO NOT PURPORT TO INDICATE ALL FEATURES, STRUCTURES, ABOVE GROUND OR UNDERGROUND UTILITIES, PROPERTY LINES, EASEMENTS, OR ANY OTHER INFORMATION RELEVANT TO PERFORMING THE REQUIRED WORK.

VEGETATION REMOVAL NOTES:

1. VEGETATION REMOVAL ESTIMATED QUANTITIES: THE ESTIMATED SQUARE YARDAGE OF VEGETATION REMOVAL AREAS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND EXTEND TO THE BOUNDARIES OF THE SHADED AREAS. WHERE THE SHADED AREAS CONTINUE ACROSS MATCH LINES, THE SQUARE YARDAGE VALUES DO NOT INCLUDE ANY OF THE AREA BEYOND THE MATCH LINE.
2. WORK AREA FIELD REVIEW: LOCATION AND AREAL EXTENT OF VEGETATION REMOVAL AREAS ARE APPROXIMATE ONLY. CTDEEP WILL FIELD REVIEW AND CONFIRM TYPE I AND TYPE II AREAS AND INDIVIDUAL TREE REMOVALS PRIOR TO CUTTING. CTDEEP MAY ADJUST LIMITS OR TREE CLASSIFICATION DURING FIELD REVIEW BASED ON OBSERVATIONS, AND CTDEEP OPINION IS FINAL.
3. VEGETATION REMOVAL TYPE I: CUTTING AND CHIPPING OF GRASS, HERBACEOUS PLANTS, AND WOODY-STEMMED VEGETATION UP TO TWO INCHES IN DIAMETER AT BREAST HEIGHT (DBH) TO WITHIN TWO INCHES OF FINISHED GROUNDLINE. CONTRACTOR SHALL REPORT ANY TREE LARGER THAN TWO INCHES DBH TO CTDEEP PRIOR TO CUTTING TO BE PAID FOR AS INDIVIDUAL TREE REMOVAL (SIZE). CTDEEP MAY SELECT INDIVIDUAL TREES TO REMAIN WITHIN TYPE I AREAS.
4. VEGETATION REMOVAL TYPE II: CUTTING AND CHIPPING OF ALL TREES, BRUSH, HERBACEOUS PLANTS, AND GRASS TO WITHIN TWO INCHES OF FINISHED GROUNDLINE. NO TREES WITHIN TYPE II AREAS WILL BE PAID FOR AS INDIVIDUAL TREE REMOVAL, REGARDLESS OF SIZE. CTDEEP MAY SELECT INDIVIDUAL TREES TO REMAIN WITHIN TYPE II AREAS.
5. INDIVIDUAL TREE REMOVAL:
 - A. SIZE A: >2" DIAMETER AT GRADE TO <12" DIAMETER DBH.
 - B. SIZE B: 12" DBH OR GREATER.
6. CONTRACTOR MAY, AT HIS/HER CHOOSING, REMOVE AND DISPOSE OF CUT VEGETATION OFF-SITE AT NO ADDITIONAL COST TO CTDEEP. ALL CUT VEGETATION SHALL BE CHIPPED PER SPECIFICATION AND SPREAD ON-SITE TO A MAXIMUM BED THICKNESS OF SIX INCHES. ANY VEGETATION NOT CAPABLE OF BEING CHIPPED PER SPECIFICATION OR NON-SUITABLE FOR CHIPPING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.

VEGETATIVE DEBRIS & TRASH REMOVAL NOTES:

1. VEGETATIVE DEBRIS: COLLECT ALL VEGETATIVE DEBRIS INCLUDING FALLEN TREES, LIMBS, AND STICKS FROM ALL WORK AREAS, INCLUDING FROM WITHIN THE WATER COURSES, AND CHIP ON-SITE. ALL VEGETATIVE DEBRIS SHALL BE CHIPPED PER SPECIFICATION AND SPREAD ON-SITE TO A MAXIMUM BED THICKNESS OF SIX INCHES. ANY VEGETATIVE DEBRIS NOT CAPABLE OF BEING CHIPPED PER SPECIFICATION OR NON-SUITABLE FOR CHIPPING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.
2. TRASH: REMOVE ALL TRASH (RUBBISH, TIRES, SHOPPING CARTS, VEHICLES, ETC.) FROM ALL WORK AREAS, INCLUDING FROM WITHIN THE WATER COURSES, AND DISPOSE OFF-SITE.



© 2013 - GZA GeoEnvironmental, Inc. GZA-VA-0 166350 - 0 166350-15.01166354.01 CT DEEP Park River Flood Control GZA/BACE-PIPER RIVER.dwg [B1] (B1)

LEGEND

- EDGE OF WATER
- - - PROPERTY LINE
- 2 FT. CONTOUR
- 10 FT. CONTOUR
- PROJECT CENTERLINE (APPROX. BROOK CENTERLINE)
- SEDIMENT CONTROL BARRIER
- ▨ TYPE I VEGETATION REMOVAL
- ▩ TYPE II VEGETATION REMOVAL
- ▨ SEDIMENT REMOVAL AREA
- +79.3 PROPOSED SPOT GRADE
- ⊙ SEDIMENT SAMPLE LOCATION

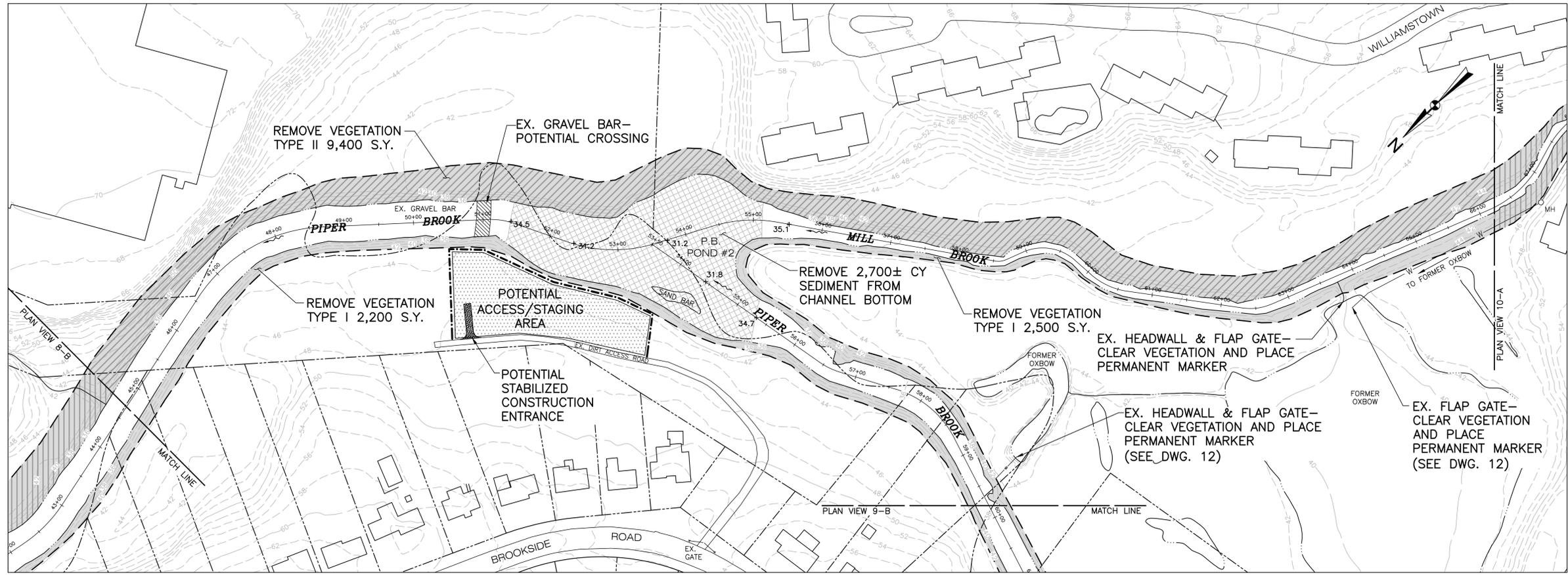
NO.	ISSUE/DESCRIPTION	BY	DATE

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

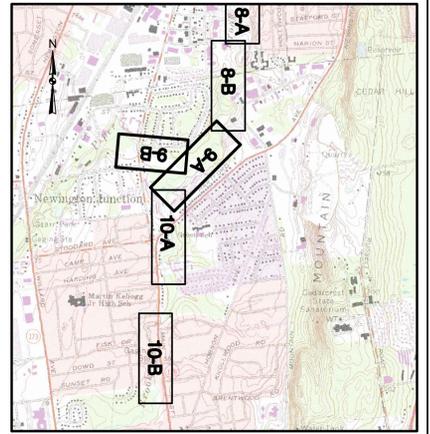
**SOUTH BRANCH PARK RIVER
FLOOD CONTROL MAINTENANCE PROJECT**

**PIPER BROOK
STA. 0+00 - STA. 44+50**

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION (C.T.D.E.P.) 79 ELM STREET HARTFORD, CT		
PROJ MGR: NYA	REVIEWED BY: NYA	CHECKED BY: TEJ	DRAWING 8
DESIGNED BY: NYA	DRAWN BY: EDM	SCALE: 1"=80'	
DATE: JANUARY 2015	PROJECT NO. 15.01166354.01	REVISION NO.	



PLAN VIEW 9-A



KEY PLAN
1"=2000'

GENERAL NOTES:

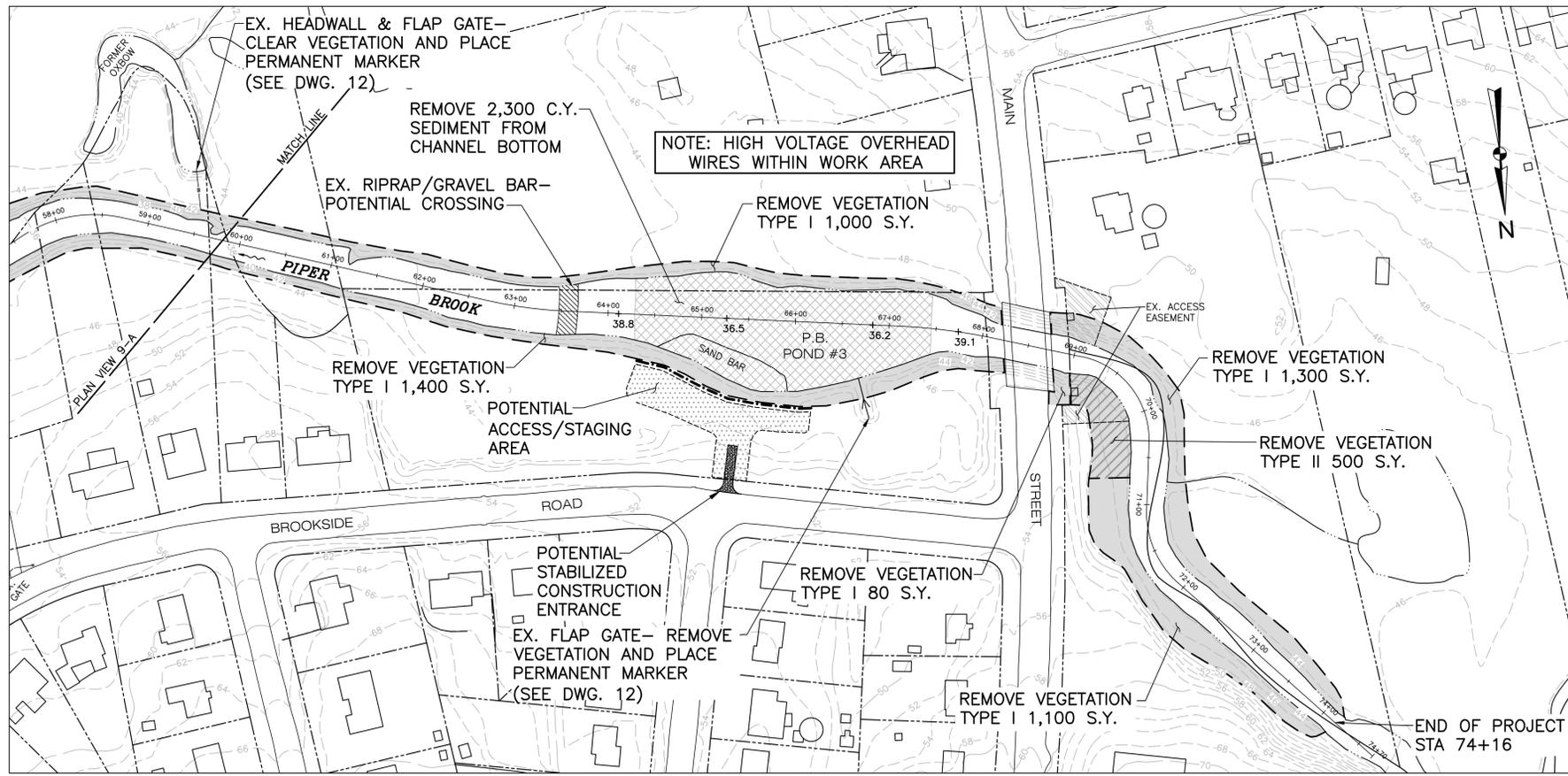
1. PLANIMETRIC INFORMATION PROVIDED BY METROPOLITAN DISTRICT COMMISSION AND STATE OF CONNECTICUT GEOGRAPHIC INFORMATION SYSTEM (GIS) DATABASES. VERTICAL DATUM IS NAVD 1988; HORIZONTAL DATUM IS NAD 1983.
2. FLOOD CONTROL SYSTEM LAYOUTS, RIGHTS-OF-WAY, EASEMENTS, AND OTHER FEATURES ARE APPROXIMATED FROM "RECORD DRAWINGS" PROVIDED BY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP).
3. PROJECT CENTERLINE ALIGNMENTS AND STATIONING ARE ASSUMED AND MAY NOT MATCH THOSE OF THE ORIGINAL DESIGN OR PREVIOUS MAINTENANCE PROJECTS.
4. PLANS ARE APPROXIMATE ONLY AND DO NOT PURPORT TO INDICATE ALL FEATURES, STRUCTURES, ABOVE GROUND OR UNDERGROUND UTILITIES, PROPERTY LINES, EASEMENTS, OR ANY OTHER INFORMATION RELEVANT TO PERFORMING THE REQUIRED WORK.

VEGETATION REMOVAL NOTES:

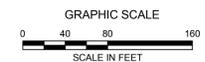
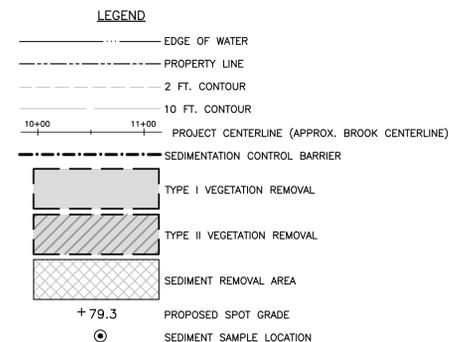
1. VEGETATION REMOVAL ESTIMATED QUANTITIES: THE ESTIMATED SQUARE YARDAGE OF VEGETATION REMOVAL AREAS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND EXTEND TO THE BOUNDARIES OF THE SHADED AREAS. WHERE THE SHADED AREAS CONTINUE ACROSS MATCH LINES, THE SQUARE YARDAGE VALUES DO NOT INCLUDE ANY OF THE AREA BEYOND THE MATCH LINE.
2. WORK AREA FIELD REVIEW: LOCATION AND AREAL EXTENT OF VEGETATION REMOVAL AREAS ARE APPROXIMATE ONLY. CTDEEP WILL FIELD REVIEW AND CONFIRM TYPE I AND TYPE II AREAS AND INDIVIDUAL TREE REMOVALS PRIOR TO CUTTING. CTDEEP MAY ADJUST LIMITS OR TYPE CLASSIFICATION DURING FIELD REVIEW BASED ON OBSERVATIONS, AND CTDEEP OPINION IS FINAL.
3. VEGETATION REMOVAL TYPE I: CUTTING AND CHIPPING OF GRASS, HERBACEOUS PLANTS, AND WOODY-STEMMED VEGETATION UP TO TWO INCHES IN DIAMETER AT BREAST HEIGHT (DBH) TO WITHIN TWO INCHES OF FINISHED GROUNDLINE. CONTRACTOR SHALL REPORT ANY TREE LARGER THAN TWO INCHES DBH TO CTDEEP PRIOR TO CUTTING TO BE PAID FOR AS INDIVIDUAL TREE REMOVAL (SIZE). CTDEEP MAY SELECT INDIVIDUAL TREES TO REMAIN WITHIN TYPE I AREAS.
4. VEGETATION REMOVAL TYPE II: CUTTING AND CHIPPING OF ALL TREES, BRUSH, HERBACEOUS PLANTS, AND GRASS TO WITHIN TWO INCHES OF FINISHED GROUNDLINE. NO TREES WITHIN TYPE II AREAS WILL BE PAID FOR AS INDIVIDUAL TREE REMOVAL, REGARDLESS OF SIZE. CTDEEP MAY SELECT INDIVIDUAL TREES TO REMAIN WITHIN TYPE II AREAS.
5. INDIVIDUAL TREE REMOVAL:
 - A. SIZE A: >2" DIAMETER AT GRADE TO <12" DIAMETER DBH.
 - B. SIZE B: 12" DBH OR GREATER.
6. CONTRACTOR MAY, AT HIS/HER CHOOSING, REMOVE AND DISPOSE OF CUT VEGETATION OFF-SITE AT NO ADDITIONAL COST TO CTDEEP. ALL CUT VEGETATION SHALL BE CHIPPED PER SPECIFICATION AND SPREAD ON-SITE TO A MAXIMUM BED THICKNESS OF SIX INCHES. ANY VEGETATION NOT CAPABLE OF BEING CHIPPED PER SPECIFICATION OR NON-SUITABLE FOR CHIPPING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.

VEGETATIVE DEBRIS & TRASH REMOVAL NOTES:

1. VEGETATIVE DEBRIS: COLLECT ALL VEGETATIVE DEBRIS INCLUDING FALLEN TREES, LIMBS, AND STICKS FROM ALL WORK AREAS, INCLUDING FROM WITHIN THE WATER COURSES, AND CHIP ON-SITE. ALL VEGETATIVE DEBRIS SHALL BE CHIPPED PER SPECIFICATION AND SPREAD ON-SITE TO A MAXIMUM BED THICKNESS OF SIX INCHES. ANY VEGETATIVE DEBRIS NOT CAPABLE OF BEING CHIPPED PER SPECIFICATION OR NON-SUITABLE FOR CHIPPING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.
2. TRASH: REMOVE ALL TRASH (RUBBISH, TIRES, SHOPPING CARTS, VEHICLES, ETC.) FROM ALL WORK AREAS, INCLUDING FROM WITHIN THE WATER COURSES, AND DISPOSE OFF-SITE.

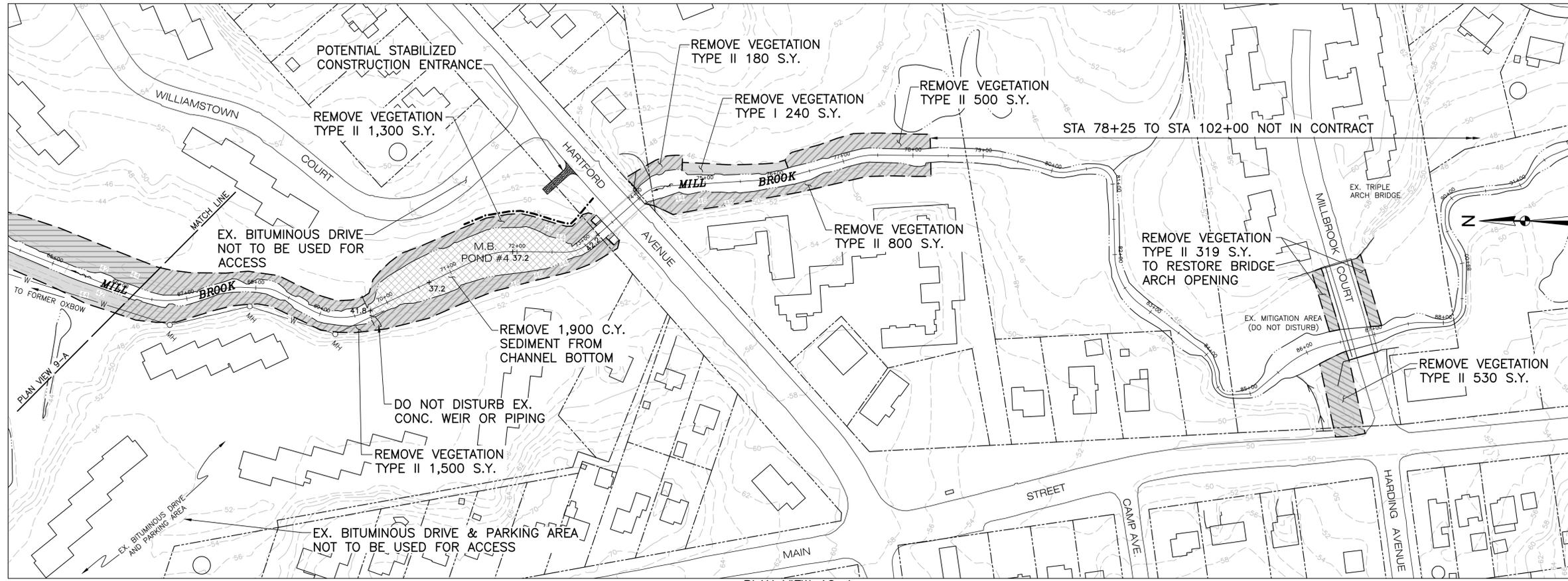


PLAN VIEW 9-B

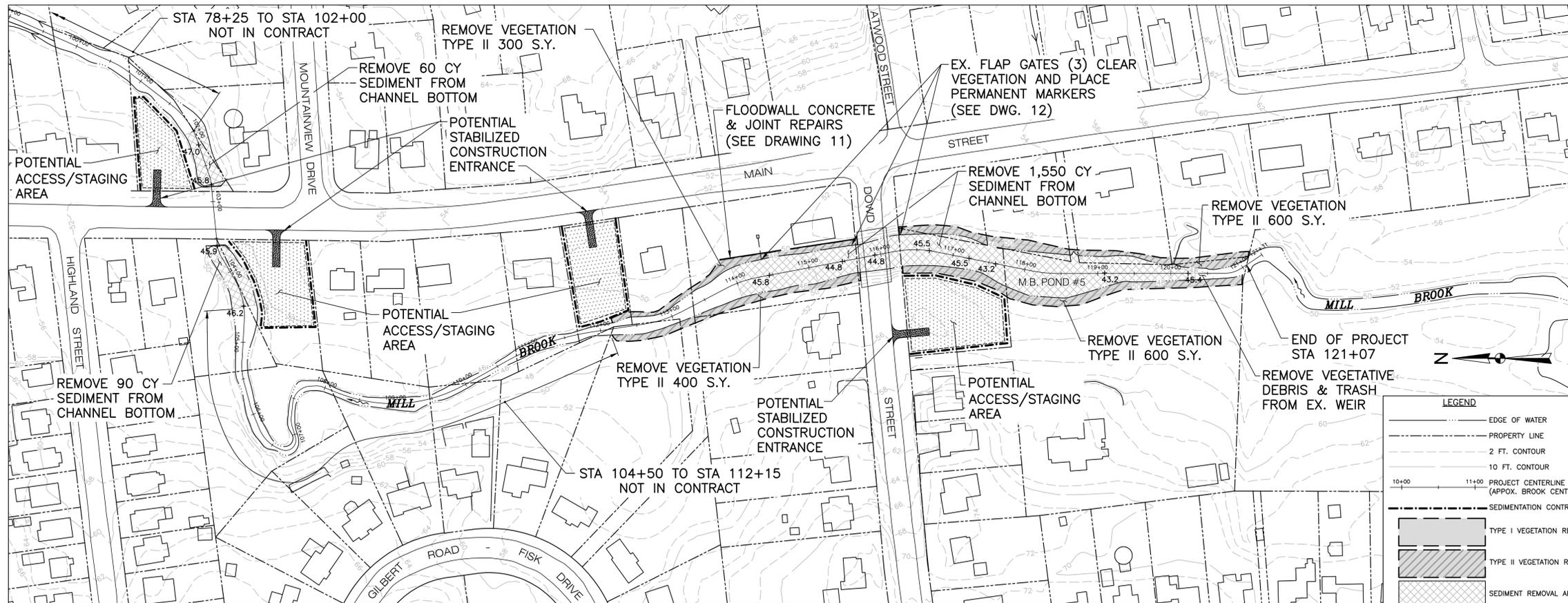


NO.	ISSUE/DESCRIPTION	BY	DATE
UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOTECHNICAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION SHOWN ON THE DRAWING. THE DRAWING SHALL NOT BE REPRODUCED, COPIED, REPRODUCED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.			
SOUTH BRANCH PARK RIVER FLOOD CONTROL MAINTENANCE PROJECT			
PIPER BROOK STA. 44+50 - STA. 74+20 END OF PROJECT; MILL BROOK STA. 53+50 - STA. 66+00			
PREPARED BY:	GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR:	CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION (CTDEEP) 79 ELM STREET HARTFORD, CT
PROJ MGR:	NYA	REVIEWED BY:	NYA
DESIGNED BY:	NYA	DRAWN BY:	EDM
DATE:	JANUARY 2015	PROJECT NO.:	15.0166354.01
		CHECKED BY:	TEJ
		SCALE:	1"=80'
		REVISION NO.:	9

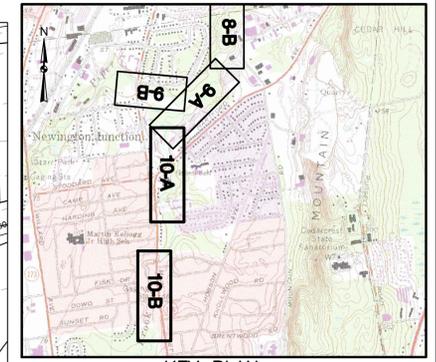
© 2015 - GZA GeoEnvironmental, Inc. GZA-PA-15.0166354.01 CT DEEP Park River Flood Control GZA BAGE-PAK-RIK-ENG [Df] 9



PLAN VIEW 10-A



PLAN VIEW 10-B



KEY PLAN
1"=2000'

GENERAL NOTES:

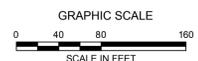
1. PLANIMETRIC INFORMATION PROVIDED BY METROPOLITAN DISTRICT COMMISSION AND STATE OF CONNECTICUT GEOGRAPHIC INFORMATION SYSTEM (GIS) DATABASES. VERTICAL DATUM IS NAVD 1988; HORIZONTAL DATUM IS NAD 1983.
2. FLOOD CONTROL SYSTEM LAYOUTS, RIGHTS-OF-WAY, EASEMENTS, AND OTHER FEATURES ARE APPROXIMATED FROM "RECORD DRAWINGS" PROVIDED BY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CTDEEP).
3. PROJECT CENTERLINE ALIGNMENTS AND STATIONING ARE ASSUMED AND MAY NOT MATCH THOSE OF THE ORIGINAL DESIGN OR PREVIOUS MAINTENANCE PROJECTS.
4. PLANS ARE APPROXIMATE ONLY AND DO NOT PURPORT TO INDICATE ALL FEATURES, STRUCTURES, ABOVE GROUND OR UNDERGROUND UTILITIES, PROPERTY LINES, EASEMENTS, OR ANY OTHER INFORMATION RELEVANT TO PERFORMING THE REQUIRED WORK.

VEGETATION REMOVAL NOTES:

1. VEGETATION REMOVAL ESTIMATED QUANTITIES: THE ESTIMATED SQUARE YARDAGE OF VEGETATION REMOVAL AREAS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND EXTEND TO THE BOUNDARIES OF THE SHADED AREAS. WHERE THE SHADED AREAS CONTINUE ACROSS MATCH LINES, THE SQUARE YARDAGE VALUES DO NOT INCLUDE ANY OF THE AREA BEYOND THE MATCH LINE.
2. WORK AREA FIELD REVIEW: LOCATION AND AREAL EXTENT OF VEGETATION REMOVAL AREAS ARE APPROXIMATE ONLY. CTDEEP WILL FIELD REVIEW AND CONFIRM TYPE I AND TYPE II AREAS AND INDIVIDUAL TREE REMOVALS PRIOR TO CUTTING. CTDEEP MAY ADJUST LIMITS OR TYPE CLASSIFICATION DURING FIELD REVIEW BASED ON OBSERVATIONS, AND CTDEEP OPINION IS FINAL.
3. VEGETATION REMOVAL TYPE I: CUTTING AND CHIPPING OF GRASS, HERBACEOUS PLANTS, AND WOODY-STEMMED VEGETATION UP TO TWO INCHES IN DIAMETER AT BREAST HEIGHT (DBH) TO WITHIN TWO INCHES OF FINISHED GROUNDLINE. CONTRACTOR SHALL REPORT ANY TREE LARGER THAN TWO INCHES DBH TO CTDEEP PRIOR TO CUTTING TO BE PAID FOR AS INDIVIDUAL TREE REMOVAL (SIZE). CTDEEP MAY SELECT INDIVIDUAL TREES TO REMAIN WITHIN TYPE I AREAS.
4. VEGETATION REMOVAL TYPE II: CUTTING AND CHIPPING OF ALL TREES, BRUSH, HERBACEOUS PLANTS, AND GRASS TO WITHIN TWO INCHES OF FINISHED GROUNDLINE. NO TREES WITHIN TYPE II AREAS WILL BE PAID FOR AS INDIVIDUAL TREE REMOVAL REGARDLESS OF SIZE. CTDEEP MAY SELECT INDIVIDUAL TREES TO REMAIN WITHIN TYPE II AREAS.
5. INDIVIDUAL TREE REMOVAL:
 - A. SIZE A: >2" DIAMETER AT GRADE TO <12" DIAMETER DBH.
 - B. SIZE B: 12" DBH OR GREATER.
6. CONTRACTOR MAY, AT HIS/HER CHOOSING, REMOVE AND DISPOSE OF CUT VEGETATION OFF-SITE AT NO ADDITIONAL COST TO CTDEEP. ALL CUT VEGETATION SHALL BE CHIPPED PER SPECIFICATION AND SPREAD ON-SITE TO A MAXIMUM BED THICKNESS OF SIX INCHES. ANY VEGETATION NOT CAPABLE OF BEING CHIPPED PER SPECIFICATION OR NON-SUITABLE FOR CHIPPING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.

VEGETATIVE DEBRIS & TRASH REMOVAL NOTES:

1. VEGETATIVE DEBRIS: COLLECT ALL VEGETATIVE DEBRIS INCLUDING FALLEN TREES, LIMBS, AND STICKS FROM ALL WORK AREAS, INCLUDING FROM WITHIN THE WATER COURSES, AND CHIP ON-SITE. ALL VEGETATIVE DEBRIS SHALL BE CHIPPED PER SPECIFICATION AND SPREAD ON-SITE TO A MAXIMUM BED THICKNESS OF SIX INCHES. ANY VEGETATIVE DEBRIS NOT CAPABLE OF BEING CHIPPED PER SPECIFICATION OR NON-SUITABLE FOR CHIPPING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.
2. TRASH: REMOVE ALL TRASH (RUBBISH, TIRES, SHOPPING CARTS, VEHICLES, ETC.) FROM ALL WORK AREAS, INCLUDING FROM WITHIN THE WATER COURSES, AND DISPOSE OFF-SITE.

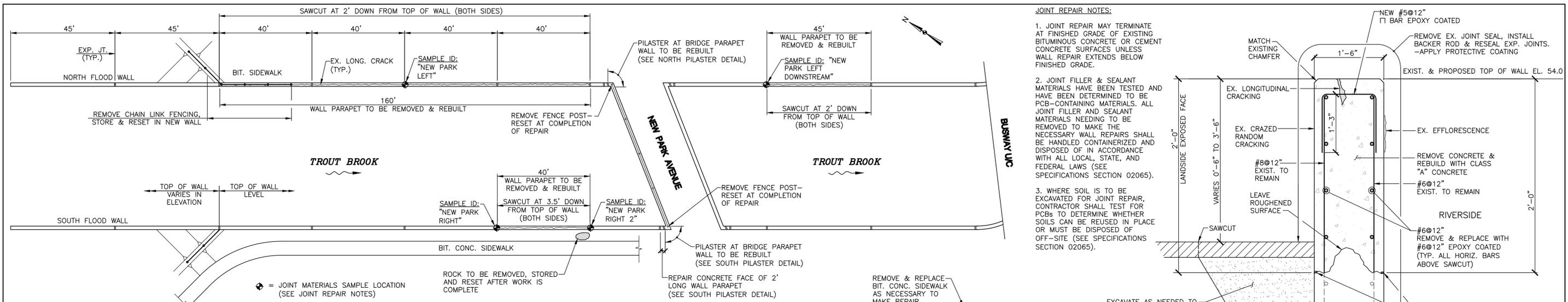


LEGEND

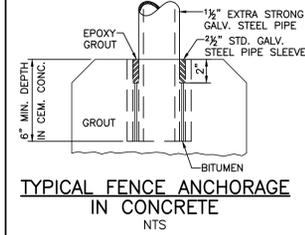
- EDGE OF WATER
- PROPERTY LINE
- 2 FT. CONTOUR
- 10 FT. CONTOUR
- PROJECT CENTERLINE (APPROX. BROOK CENTERLINE)
- SEDIMENTATION CONTROL BARRIER
- TYPE I VEGETATION REMOVAL
- TYPE II VEGETATION REMOVAL
- SEDIMENT REMOVAL AREA
- PROPOSED SPOT GRADE
- SEDIMENT SAMPLE LOCATION

NO.	ISSUE/DESCRIPTION	BY	DATE
UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE REPRODUCED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.			
SOUTH BRANCH PARK RIVER FLOOD CONTROL MAINTENANCE PROJECT			
MILL BROOK STA. 66+00 - STA. 78+25, STA. 102+00 - STA. 104+50, AND STA. 112+15 - STA. 121+07 END OF PROJECT			
PREPARED FOR:	CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION (C.T.D.E.P.) 79 ELM STREET HARTFORD, CT		
PREPARED BY:	GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		
PROJ MGR:	DESIGNED BY:	REVIEWED BY:	CHECKED BY:
NYA	NYA	NYA	TEJ
DATE:	DRAWN BY:	SCALE:	DRAWING
JANUARY 2015	EDM	1"=80'	10
	PROJECT NO.:	REVISION NO.:	
	15.0166354.01		

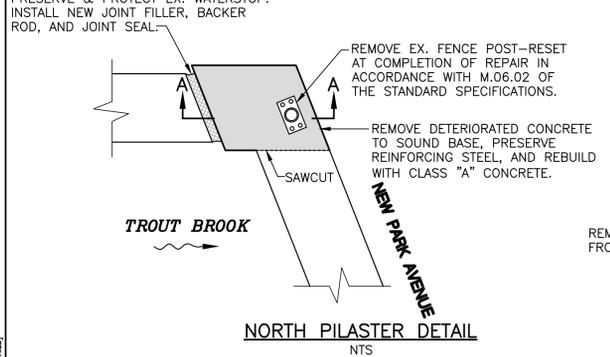
© 2015 - GZA GeoEnvironmental, Inc. GZA-PA-D 166354-01 CT DEEP Park River Flood Control 15.0166354.01 CT DEEP Park River Flood Control 15.0166354.01 CA0/Map/GZA/BKCE-PARK_RIVER.dwg (B17: 10)



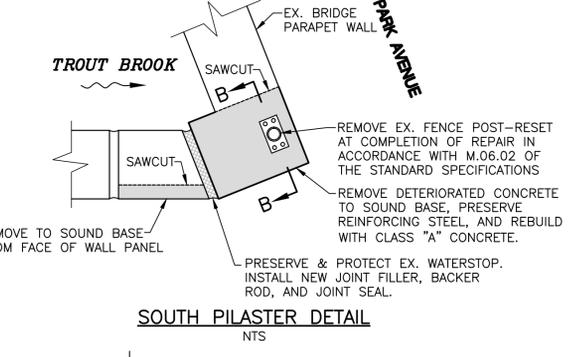
PLAN FLOODWALLS AT NEW PARK AVENUE
1"=20'



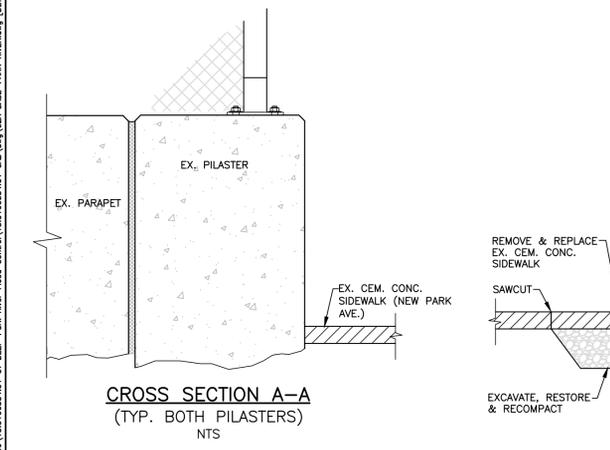
TYPICAL FENCE ANCHORAGE IN CONCRETE
NTS



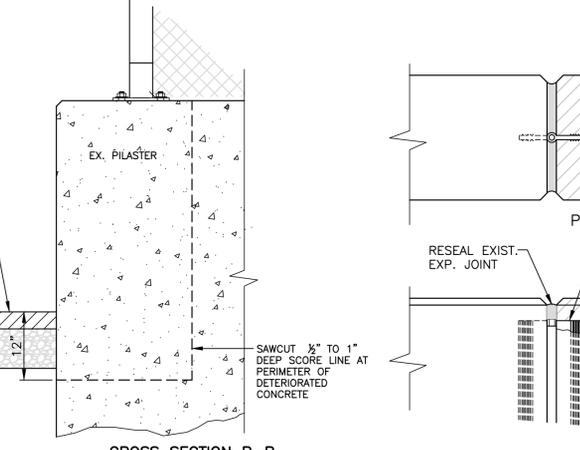
NORTH PILASTER DETAIL
NTS



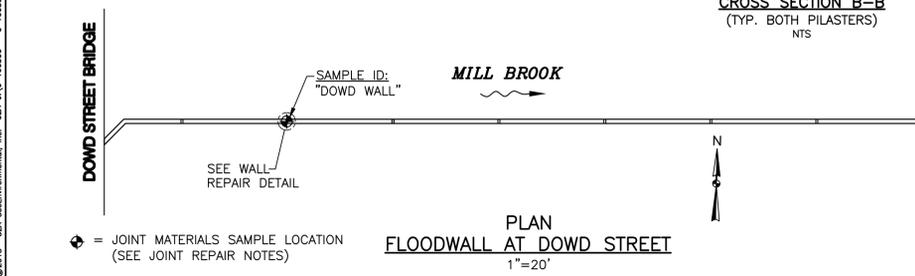
SOUTH PILASTER DETAIL
NTS



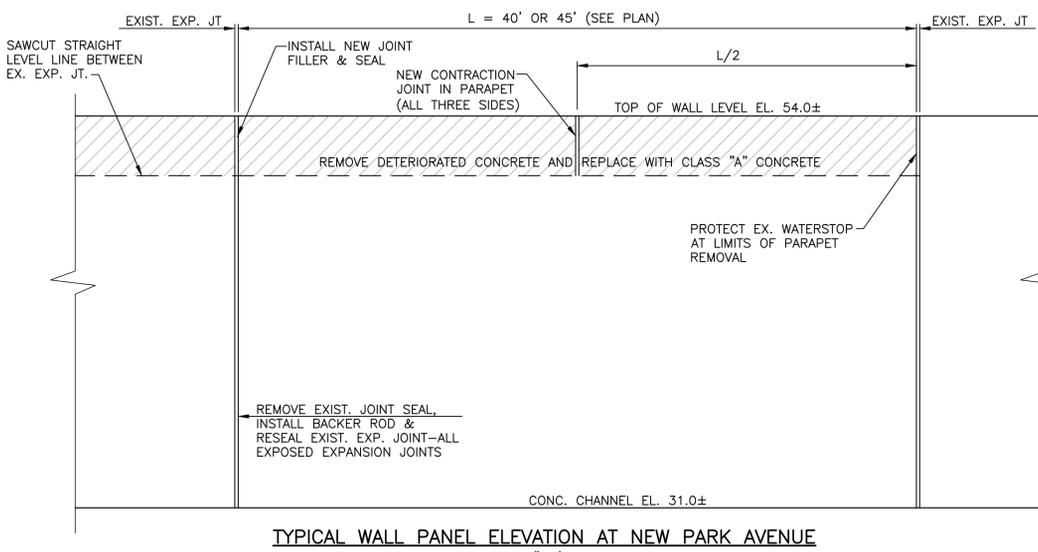
CROSS SECTION A-A (TYP. BOTH PILASTERS)
NTS



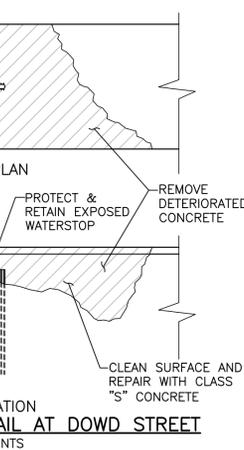
CROSS SECTION B-B (TYP. BOTH PILASTERS)
NTS



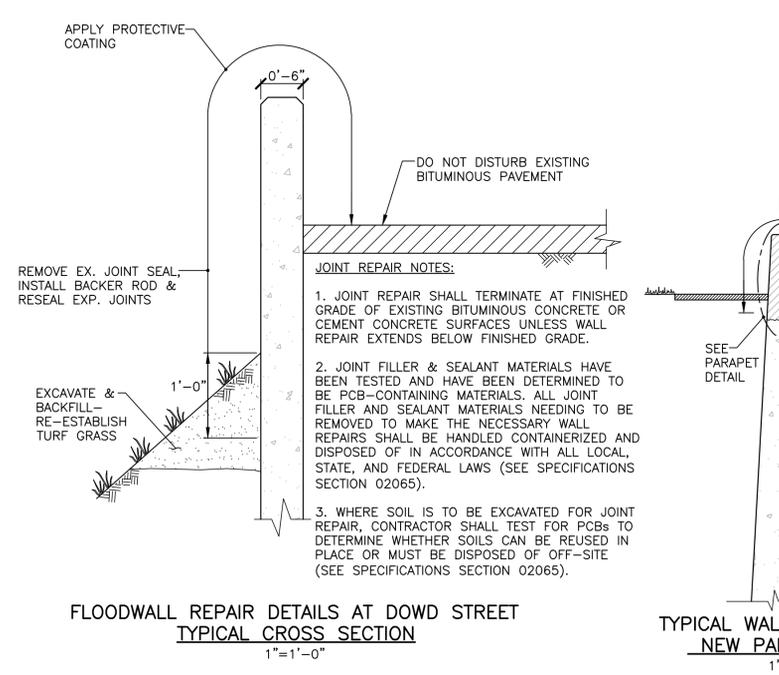
PLAN FLOODWALL AT DOWD STREET
1"=20'



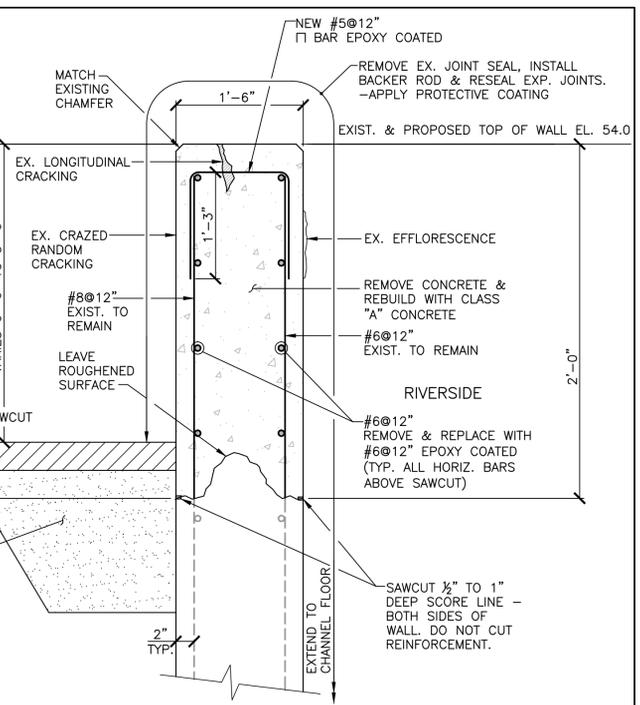
TYPICAL WALL PANEL ELEVATION AT NEW PARK AVENUE
1"=5'



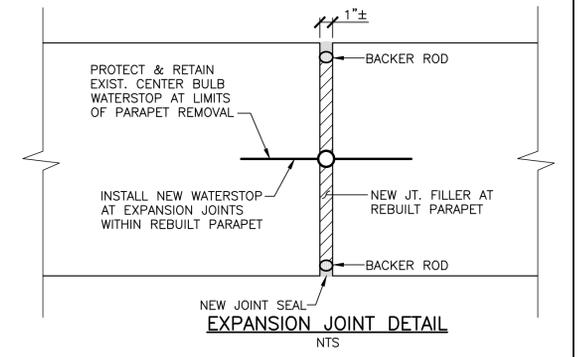
ELEVATION WALL REPAIR DETAIL AT DOWD STREET
NTS



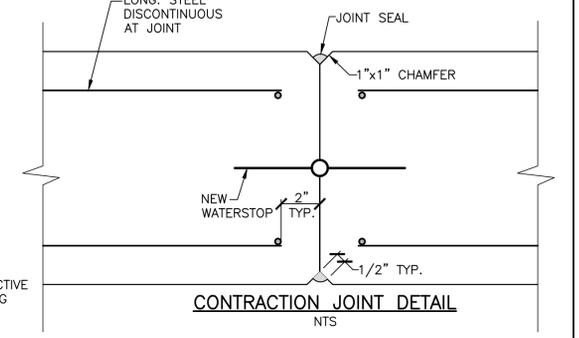
FLOODWALL REPAIR DETAILS AT DOWD STREET TYPICAL CROSS SECTION
1"=1'-0"



PARAPET & FLOODWALL REPAIR DETAILS AT NEW PARK AVENUE TYPICAL CROSS SECTION
1"=1'-0"



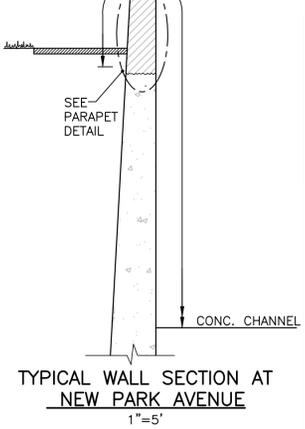
EXPANSION JOINT DETAIL
NTS



CONTRACTION JOINT DETAIL
NTS

- JOINT REPAIR NOTES:**
1. JOINT REPAIR MAY TERMINATE AT FINISHED GRADE OF EXISTING BITUMINOUS CONCRETE OR CEMENT CONCRETE SURFACES UNLESS WALL REPAIR EXTENDS BELOW FINISHED GRADE.
 2. JOINT FILLER & SEALANT MATERIALS HAVE BEEN TESTED AND HAVE BEEN DETERMINED TO BE PCB-CONTAINING MATERIALS. ALL JOINT FILLER AND SEALANT MATERIALS NEEDING TO BE REMOVED TO MAKE THE NECESSARY WALL REPAIRS SHALL BE HANDLED CONTAINERIZED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS (SEE SPECIFICATIONS SECTION 02065).
 3. WHERE SOIL IS TO BE EXCAVATED FOR JOINT REPAIR, CONTRACTOR SHALL TEST FOR PCBs TO DETERMINE WHETHER SOILS CAN BE REUSED IN PLACE OR MUST BE DISPOSED OF OFF-SITE (SEE SPECIFICATIONS SECTION 02065).

- JOINT REPAIR NOTES:**
1. JOINT REPAIR SHALL TERMINATE AT FINISHED GRADE OF EXISTING BITUMINOUS CONCRETE OR CEMENT CONCRETE SURFACES UNLESS WALL REPAIR EXTENDS BELOW FINISHED GRADE.
 2. JOINT FILLER & SEALANT MATERIALS HAVE BEEN TESTED AND HAVE BEEN DETERMINED TO BE PCB-CONTAINING MATERIALS. ALL JOINT FILLER AND SEALANT MATERIALS NEEDING TO BE REMOVED TO MAKE THE NECESSARY WALL REPAIRS SHALL BE HANDLED CONTAINERIZED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS (SEE SPECIFICATIONS SECTION 02065).
 3. WHERE SOIL IS TO BE EXCAVATED FOR JOINT REPAIR, CONTRACTOR SHALL TEST FOR PCBs TO DETERMINE WHETHER SOILS CAN BE REUSED IN PLACE OR MUST BE DISPOSED OF OFF-SITE (SEE SPECIFICATIONS SECTION 02065).



TYPICAL WALL SECTION AT NEW PARK AVENUE
1"=5'

NO.	ISSUE/DESCRIPTION	BY	DATE
<p>UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE REPRODUCED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.</p>			
<p>SOUTH BRANCH PARK RIVER FLOOD CONTROL MAINTENANCE PROJECT</p>			
<p>FLOODWALL REPAIR DETAILS</p>			
<p>PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com</p>		<p>PREPARED FOR: CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION (C.T.D.E.P.) 79 ELM STREET HARTFORD, CT</p>	
<p>PROJ MGR: NYA DESIGNED BY: NYA DATE: JANUARY 2015</p>	<p>REVIEWED BY: NYA DRAWN BY: EDM PROJECT NO.: 15.0166354.01</p>	<p>CHECKED BY: TEJ SCALE: AS NOTED REVISION NO.:</p>	<p>DRAWING 11</p>

2015- GZA - GeoEnvironmental, Inc. - 0166354.01 - 0166354.01 - CT DEPT. OF ENERGY & ENVIRONMENTAL PROTECTION (C.T.D.E.P.) - SOUTH BRANCH PARK RIVER FLOOD CONTROL MAINTENANCE PROJECT - FLOODWALL REPAIR DETAILS

