

WAR MEMORIAL PARK

REPAIR AND RECONSTRUCTION OF STONE WALLS

RIVER STREET · WEST BRIDGEWATER · MASSACHUSETTS

CONSTRUCTION PLANS

JUNE 2017



TOWN OF WEST BRIDGEWATER

TOWN ADMINISTRATOR

DAVID L. GAGNE

TOWN ADMINISTRATOR

BOARD OF SELECTMEN

ELDON F. MORIERA

CHAIRMAN

JERRY D. LAWRENCE

VICE CHAIRMAN

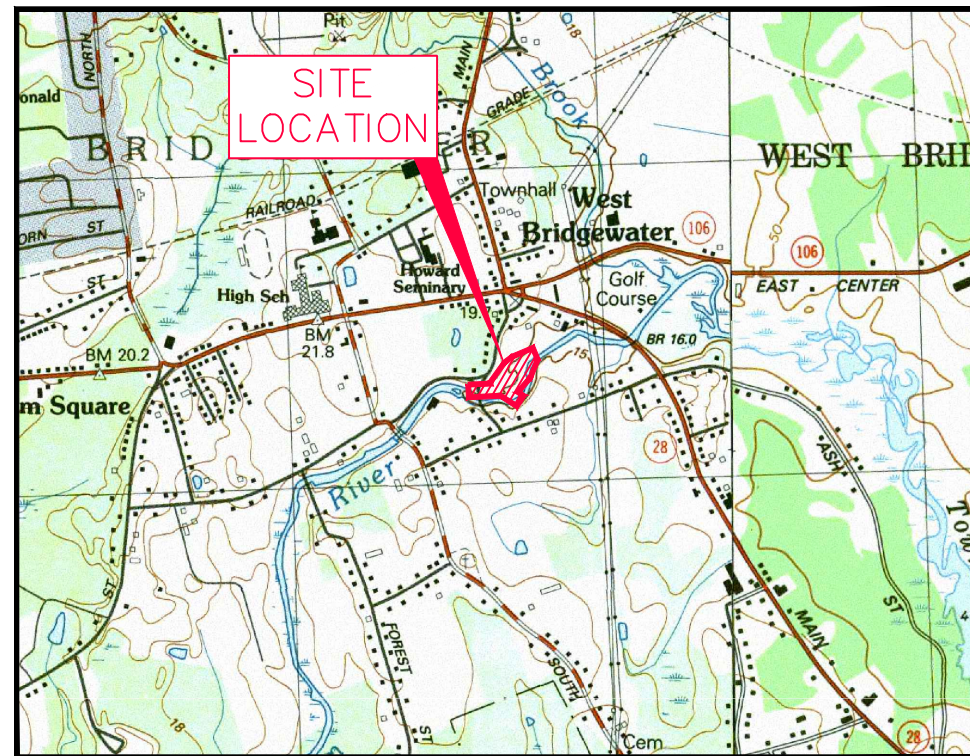
ANTHONY J. KINAHAN

CLERK

TOWN PROJECT STAFF

CHRISTOPHER D. IANNITELLI

FORESTRY SUPERINTENDENT
& TREE WARDEN



LOCATION MAP
SCALE: 1" = 2000'

SHEET INDEX

SHEET No.	SHEET TITLE
G-001	COVER SHEET
CN-001	GENERAL NOTES AND LEGEND
CN-002	CONSTRUCTION NOTES
CN-003	WALL REPAIR NOTES
GI-101	EXISTING ARCHEOLOGICAL RESOURCES PLAN
GI-102	EXISTING LANDFORM & DRAINAGE PLAN
GI-103	EXISTING STRUCTURES PLAN
GI-104	EXISTING OBJECTS PLAN
GI-105	EXISTING PARCEL PLAN
CS-101	SHEET LAYOUT PLAN
CS-102	SOUTH MILL RACE - SITE PLAN NOS. 1
CS-103	SOUTH MILL RACE - SITE PLAN NOS. 2
CS-104	SOUTH MILL RACE - SITE PLAN NOS. 3
CS-105	NORTH MILL RACE - SITE PLAN NOS. 4
CS-106	NORTH MILL RACE - SITE PLAN NOS. 5
CS-107	ANNEX AREA - SITE PLAN NO. 6
CS-108	FOUNDATION AREA - SITE PLAN NO. 7
CS-109	SOUTH RACEWAY - SITE PLAN NO. 8
CS-110	CONSTRUCTION ACCESS PLAN
CD-501 - CD-502	WALL RECONSTRUCTION AND REPAIR DETAILS
CD-503	WATER CONTROL DETAILS
CD-504	EROSION CONTROL DETAILS
CD-505	TEMPORARY ACCESS DETAILS
CD-506	SOUTH MILL RACE SECTION DETAILS
GR-901	SOUTH MILL RACE AREA PHOTOGRAPHIC WORK DEPICTIONS

PREPARED FOR
TOWN OF WEST BRIDGEWATER
65 NORTH MAIN STREET
WEST BRIDGEWATER, MASSACHUSETTS

PREPARED BY



FUSS & O'NEILL

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PROJ. No.: 20090735.C40
DATE: JUNE 2017

G-001

GENERAL CONSTRUCTION REQUIREMENTS

1. THE CONTRACTOR SHALL VERIFY THE LAYOUT OF EXISTING FEATURES DEPICTED HEREIN IN RELATION TO ACTUAL EXISTING CONDITIONS AT THE DATE(S) OF WORK, VERIFY ALL DIMENSIONS, SITE CONDITIONS, AND MATERIAL SPECIFICATIONS, AND SHALL NOTIFY THE OWNER AND ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE COMMENCING OR PROCEEDING WITH WORK.
2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK, AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE NOT DEPICTED HEREIN. THE CONTRACTOR SHALL CONTACT "DIG SAFE" AT 1-888-344-7233, 72-HOURS PRIOR TO ANY EXCAVATION PERFORMED ON SITE. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE ANY EXISTING UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF NECESSARY. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING UTILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT HIS/HER EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION. NO EXCAVATION SHALL COMMENCE UNTIL THE CONTRACTOR NOTIFIES ALL UTILITY COMPANIES AND/OR TOWN WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR IN THE AREA OF PROPOSED EXCAVATION AT LEAST THREE WORKING DAYS, BUT NOT MORE THAN TEN WORKING DAYS, PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION. ALL WATER, GAS, SEWER AND OTHER UTILITIES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, INSPECTIONS, BONDS, ETC. AND OTHER APPROVAL RELATED ITEMS WITH THE TOWN OF WEST BRIDGEWATER. NO CONSTRUCTION SHALL COMMENCE UNTIL SUCH PERMITS HAVE BEEN SECURED APPROVALS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, WITH MATCHING PRODUCTS, STOCK OR MATERIALS, ANY PAVEMENT, WALKS, CURBS, PARK FURNISHINGS, PLANTINGS, ETC. THAT ARE DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
5. AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS SHALL BE MAINTAINED BY THE CONTRACTOR AT THE CONSTRUCTION SITE.
6. THE CONTRACTOR SHALL INSTALL AND MAINTAIN WARNING SIGNAGE, CONSTRUCTION FENCING AND PROTECTIVE BARRICADES AROUND ALL WORK AREAS UNDERGOING CONSTRUCTION OR OTHERWISE BEING USE FOR TRANSPORT OF CONSTRUCTION MATERIALS OR VEHICLES/EQUIPMENT. SUCH MEASURES SHALL REMAIN PRESENT DURING NON-WORKING HOURS TO PROTECT THE PUBLIC WHEN THE CONTRACTOR IS NOT ON SITE UNTIL PROJECT COMPLETION. ALL TREE CLEARING SHALL BE COMPLETED ONLY AFTER PROTECTIVE BARRIERS/BARRICADES HAVE BEEN INSTALLED AROUND AREAS WHERE FALLING TREES/LIMBS MAY FALL.
7. THE CONTRACTOR SHALL LEGALLY DISPOSE OF ALL SOIL, DEBRIS, TREE LIMBS, TRUNKS AND ROOTS OFF-SITE.

EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL REMOVE ALL MATERIALS FROM WORK AREAS SUCH THAT GROUND ELEVATIONS ARE RESTORED TO PRE-CONSTRUCTION GRADES, EXCEPT 1) WHERE EROSION REPAIRS ARE TO OCCUR WHERE GRADES SHALL MATCH ADJACENT (UNERODED) AREAS, AND 2) WHERE GRADING IS PROPOSED FOR EROSION REPAIRS.
2. THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL DEVICES IS THE RESPONSIBILITY OF THE CONTRACTOR. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLAN, OR AS DICTATED BY THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION OR THE TOWN OF WEST BRIDGEWATER. SILT FENCE OR STAKED STRAW WATTLES SHALL BE INSTALLED AROUND ALL STOCKPILES. ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED IN EFFECTIVE CONDITION AND SHALL BE REPLACED AS NECESSARY DURING CONSTRUCTION.
3. THE CONTRACTOR SHALL USE THE LATEST EDITION OF THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS: A GUIDE FOR PLANNERS, DESIGNERS AND MUNICIPAL OFFICIALS" AS A GUIDE IN CONSTRUCTING THE EROSION AND SEDIMENT CONTROLS INDICATED ON THE PLANS. ALL EROSION AND SEDIMENT CONTROL MEASURES OR WORKS AND REHABILITATION MEASURES MUST CONFORM TO OR EXCEED THE SPECIFICATIONS OR STANDARDS SET OUT IN THESE GUIDELINES.
4. INSPECTION OF SEDIMENT BARRIERS (INCLUDING THOSE ENCOMPASSING SOIL STOCKPILE AREAS) SHALL BE MADE AFTER EACH STORM EVENT AND REPAIR OR REPLACEMENT SHOULD BE MADE PROMPTLY AS NEEDED. CLEANOUT OF ACCUMULATED SEDIMENT BEHIND STRAW WATTLES IS NECESSARY IF ONE-HALF OF THE ORIGINAL HEIGHT OF THE STRAW WATTLES BECOMES FILLED WITH SEDIMENT.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE TIMELY INSTALLATION, INSPECTION, MAINTENANCE, AND/OR REPLACEMENT OF ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES TO ENSURE PROPER OPERATION THROUGHOUT THE LIFE OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF PERMANENT MEASURES UNTIL CONSTRUCTION OF THE PROJECT IS COMPLETED OR UNTIL IT IS ACCEPTED BY THE OWNER. THE OWNER IS RESPONSIBLE THEREAFTER.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN ROADS, CONTROL DUST, AND TAKE ALL NECESSARY MEASURES TO ENSURE THAT THE SITE AND ALL ADJACENT OFF-SITE ROADS BE MAINTAINED IN A MUD- AND DUST-FREE CONDITION AT ALL TIMES THROUGHOUT THE LIFE OF THE CONTRACT. DUST CONTROL SHALL INCLUDE, BUT IS NOT LIMITED TO TEMPORARY SURFACE TREATMENTS, WATER AND/OR CRUSHED STONE OR COARSE GRAVEL.
7. CONSTRUCTION ENTRANCES SHALL BE CONSTRUCTED AT ALL POINTS OF ACCESS IN ACCORDANCE WITH DETAIL. ALL VEHICLE TRAFFIC ENTERING OR EXITING THE PROJECT SITE SHALL PASS OVER THE CONSTRUCTION ENTRANCES TO REDUCE THE TRACKING OR FLOWING OF SEDIMENT ONTO THE ADJACENT PAVED AREAS AND ROADWAYS. THIS WILL REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO THE ADJACENT PAVED AREAS AND ROADWAYS MUST BE PROMPTLY REMOVED. ADDITIONAL ENTRANCES FOR CONSTRUCTION PHASING SHALL BE INSTALLED AS REQUIRED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ADJACENT PAVED AREAS AND ROADWAYS.
8. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS. AREAS DAMAGED DURING CONSTRUCTION SHALL BE RESEDED, OR OTHERWISE RESTORED TO THEIR ORIGINAL STATE. TREES AND OTHER EXISTING VEGETATION SHALL BE PROTECTED OUTSIDE LIMITS OF DISTURBANCE.
9. TEMPORARY VEGETATIVE COVER SHALL BE APPLIED TO ANY DISTURBED AREAS (INCLUDING SOIL STOCKPILE AREAS) THAT HAVE NOT YET REACHED FINISHED GRADE AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY CEASED, UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS. THE RECOMMENDED TEMPORARY SEEDING DATES ARE APRIL 1 TO JUNE 1 AND AUGUST 15 TO SEPTEMBER 15. THIS TEMPORARY VEGETATIVE COVER SHALL CONSIST OF ANNUAL RYEGRASS PLANTED AT A RATE OF 40 POUNDS PER ACRE.
10. PERMANENT VEGETATIVE COVER SHALL BE APPLIED TO ALL DISTURBED AREAS THAT HAVE REACHED FINISHED GRADE AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS PERMANENTLY CEASED. THE RECOMMENDED PERMANENT SEEDING DATES ARE APRIL 1 TO MAY 31 AND AUGUST 1 TO SEPTEMBER 10.

PERMANENT VEGETATIVE COVER SHALL CONSIST OF THE FOLLOWING SEED MIXTURE:
29% OF RED FESCUE
29% OF CANADA BLUEGRASS
29% OF PERENNIAL RYEGRASS
13% OF RED TOP

APPLICATION RATE: 3.5 LBS/1,000SF
11. LIMESTONE AND FERTILIZER SHALL BE APPLIED ACCORDING TO SOIL TEST RECOMMENDATIONS OBTAINED BY THE CONTRACTOR FROM THE UNIVERSITY OF MASSACHUSETTS SOIL TESTING LABORATORY. AT LEAST TWO (2) SOIL SAMPLES SHALL BE SUBMITTED FOR PREPARED BANK AREAS TO BE SEEDED (IE, SURFACE AFTER REGRADING OR EXISTING/IMPORTED TOPSOIL) ON SHEET CS-102
12. STRAW MULCH, WOOD FIBER MULCH, OR HYDROMULCH SHALL BE USED IN AREAS THAT ARE SEEDED IN THE DORMANT SEEDING PERIOD OR CANNOT BE SEEDED BY THE RECOMMENDED SEEDING DATES. STRAW OR HAY MULCH SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE, WOOD FIBER MULCH SHOULD BE APPLIED AT A RATE OF 1,500-2,000 POUNDS PER ACRE, OR HYDROMULCH APPLIED AT A RATE OF 1,500 POUNDS PER ACRE. WOOD FIBER MULCH SHOULD NOT BE USED ALONE IN THE WINTER OR DURING

- HOT, DRY WEATHER. STRAW MULCH MUST BE ANCHORED IMMEDIATELY AFTER SPREADING TO PREVENT WINDBLOWING. MULCH ANCHORING SHOULD ALSO BE USED ON SLOPES GREATER THAN THREE (3) PERCENT AND CONCENTRATED FLOW AREAS SUCH AS DIVERSION AND WATERWAY CHANNELS.
13. WASTE DISPOSAL: MATERIALS WHICH COULD BE A POTENTIAL SOURCE OF STORMWATER POLLUTION SUCH AS GASOLINE, DIESEL FUEL, HYDRAULIC OIL, ETC., SHALL BE STORED AT THE END OF EACH DAY IN A STORAGE TRAILER OR COVERED LOCATION AND TAKEN OFF-SITE AND PROPERLY DISPOSED OF. ALL TYPES OF WASTE GENERATED AT THIS SITE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH FEDERAL AND STATE LAWS AND/OR REGULATIONS.
14. GOOD HOUSEKEEPING: THE PROJECT SITE SHALL PROVIDE FOR THE MINIMIZATION OF EXPOSURE OF CONSTRUCTION DEBRIS (INCLUDING, BUT NOT LIMITED TO, INSULATION, WIRING, PAINTS AND PAINT CANS, SOLVENTS, WALL BOARD, ETC.) TO PRECIPITATION BY MEANS OF DISPOSAL AND/OR PROPER SHELTER OR COVER. CONSTRUCTION WASTE MUST BE PROPERLY DISPOSED OF IN ORDER TO AVOID EXPOSURE TO PRECIPITATION AT THE END OF EACH WORKING DAY.
13. SPILL PROTECTION AND RESPONSE: FUEL VEHICLES AND EQUIPMENT AWAY FROM THE WETLAND AND DRAINAGE SYSTEM. PROVIDE BOOMS AND OTHER CONTAINMENT DEVICES. NOTIFY THE TOWN OF WEST BRIDGEWATER FIRE DEPARTMENT IMMEDIATELY OF ANY SPILLS.

CONTROL OF WATER AND PROTECTION OF WORK REQUIREMENTS

1. THE WORK AND SITE SHALL BE PROTECTED AT ALL TIMES UNTIL FINAL ACCEPTANCE BY THE OWNER. CARE SHALL BE EXERCISED WHILE OPERATING EQUIPMENT ON AND ADJACENT TO SITE WALLS, CULVERTS, FLUMES, FENCES AND BRIDGES. THE CONTRACTOR SHALL BE RESPONSIBLE TO ASSURE THE UTILIZED EQUIPMENT DOES NOT CAUSE DAMAGE TO THE ANY SUCH STRUCTURES OR OTHER CONSTRUCTED OR EXISTING FEATURES.
2. ACCESS TO VARIOUS PORTIONS OF THE SITE SHALL BE UNDERTAKEN IN SUCH A MANNER THAT THE WORK AND SITE ARE PROTECTED AT ALL TIMES. ACCESS WAYS SHALL BE CONSTRUCTED, MAINTAINED, AND PROTECTED WITH TEMPORARY COFFERDAM(S), WATER BYPASS CONVEYANCES AND EROSION AND SEDIMENT CONTROLS TO PREVENT DAMAGE FROM EROSION DURING A MAJOR STORM EVENT.
3. PLACEMENT AND COMPACTION OF FILL MATERIALS SHALL BE COMPLETED IN SUCH A MANNER THAT THE WORK AND ADJACENT ROADWAYS ARE PROTECTED FROM DAMAGE AT ALL TIMES.
4. BACKFILL OPERATIONS SHALL PROCEED TO RAISE THE GROUND SURFACE UNIFORMLY AND SHALL BE SHAPED TO PROVIDE POSITIVE DRAINAGE AT ALL TIMES. CONSTRUCT AND MAINTAIN ON THE SITE, ALL DITCHES AND CHANNELS NECESSARY TO KEEP THE SITE IN A DRY AND WORKABLE CONDITION. WHERE WATER IS FLOWING OR OTHERWISE INFILTRATING INTO AN EXCAVATION, PROVIDE FOR PUMPING AND OTHER DRAINAGE FACILITIES, INCLUDING EROSION AND SEDIMENT CONTROLS, TO DIVERT WATER FROM SUCH EXCAVATION.
5. TEMPORARY COFFERDAM AND WATER BYPASS CONVEYANCE SYSTEMS AND MEASURES TO DISCHARGE CHANNEL FLOW THROUGH THE SITE SHALL BE INSTALLED, OPERATED, MAINTAINED AND REMOVED IN SUCH MANNERS TO PROTECT THE WORK AND EXISTING FEATURES FROM DAMAGE AT ALL TIMES UNTIL FINAL ACCEPTANCE BY THE OWNER.
6. DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS. REMOVE WATER TO PREVENT SOFTENING OF FOUNDATION BOTTOMS, UNDERCUTTING OF FOOTINGS AND SOIL CHANGES DETRIMENTAL TO STABILITY OF SUBGRADES, FOUNDATIONS AND STRUCTURES.
7. PROVIDE AND MAINTAIN PUMPS, WELL POINTS, SUMPS, SUCTION AND DISCHARGE LINES, AND OTHER DEWATERING SYSTEM COMPONENTS NECESSARY TO CONVEY WATER AWAY FROM EXCAVATIONS. UTILIZE COFFERDAMS, TEMPORARY PIPE CULVERTS WITH OTHER EROSION AND SEDIMENT CONTROLS AS NECESSARY TO MINIMIZE THE POTENTIAL FOR EROSION IN WORK AREAS.
8. PUMP DISCHARGES FROM LOCALIZED TRENCH/FOOTING EXCAVATIONS SHALL BE MANAGED SUCH THAT THESE DO NOT CAUSE EROSION OF SOILS. FOR EXAMPLE, PUMP INTAKES SHALL BE FLOATED TO MINIMIZE SEDIMENTATION. PUMPED WATER SHALL BE DISCHARGED INTO A DEWATERING AREA WHICH IS SURROUNDED BY A TIGHT ENCLOSURE OF SILT FENCE AND/OR STRAW WATTLES SO AS TO FILTER MUDDY WATER PRIOR TO ITS RETURN TO THE WATERCOURSE. IN ADDITION, THE DISCHARGE OF THE PUMPED WATER SHALL BE ONTO AN EROSION FREE SURFACE SUCH AS A RIPRAP APRON SO AS TO AVOID ADDITIONAL SUSPENSION OF SOIL. WATER SHALL NOT BE DISCHARGED ONTO THE FILL OR BACKFILL AREAS OR FOUNDATIONS. WATER SHALL ONLY BE ALLOWED TO DISCHARGE DIRECTLY INTO THE WATERCOURSE AFTER IT IS RUNNING CLEAR WITHOUT ANY SUSPENDED SEDIMENT OR SILT.

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TOWN OF WEST BRIDGEWATER
 CONSTRUCTION NOTES
 REPAIR AND RECONSTRUCTION OF STONE WALLS
 WAR MEMORIAL PARK
 RIVER STREET WEST BRIDGEWATER, MASSACHUSETTS

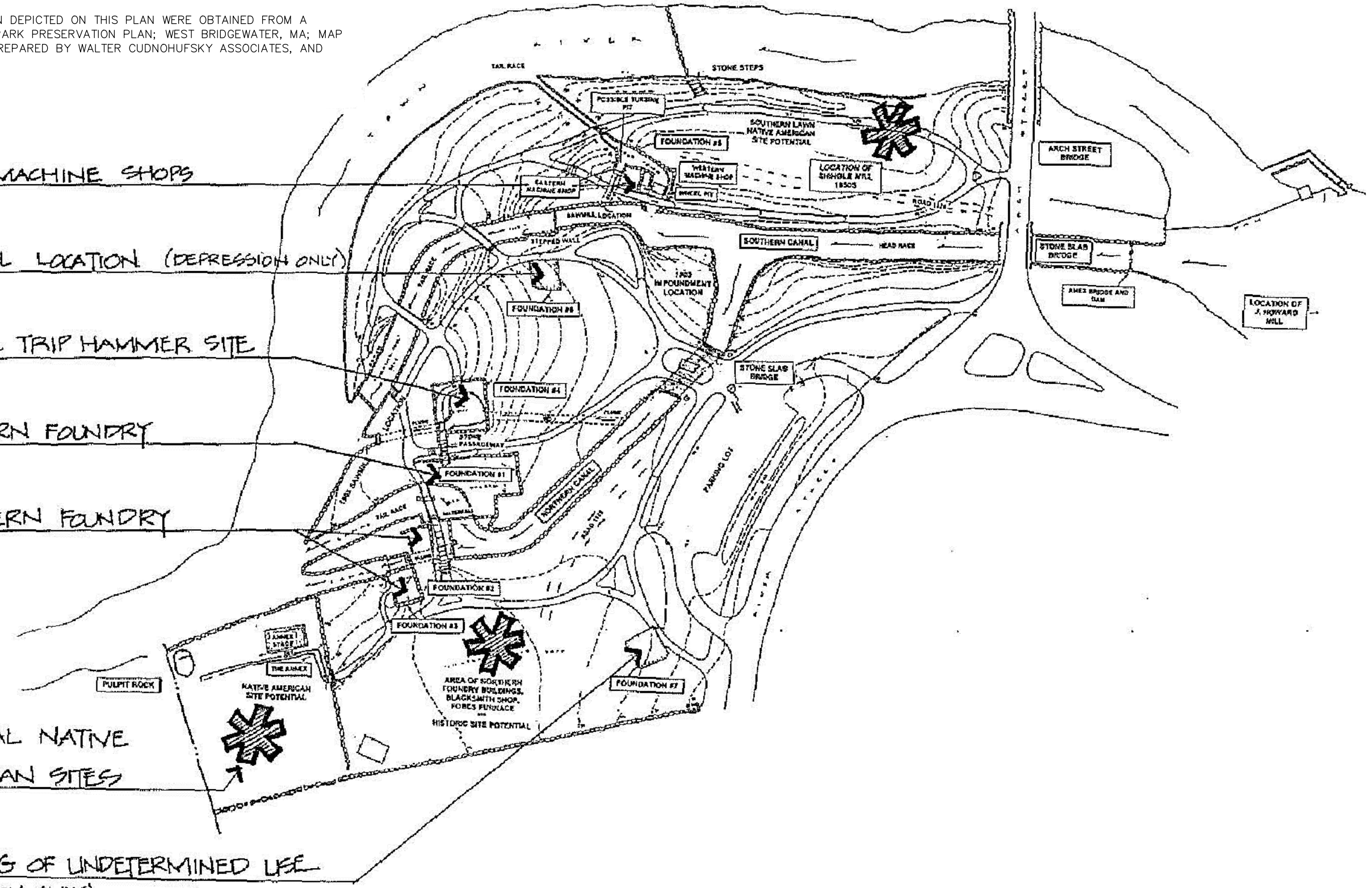
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 DATE: JUNE 2017
CN-002

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 LMAN:
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 LUCS: WRLD

MAP REFERENCE:

1. EXISTING CONDITIONS INFORMATION DEPICTED ON THIS PLAN WERE OBTAINED FROM A PLAN ENTITLED "WAR MEMORIAL PARK PRESERVATION PLAN; WEST BRIDGEWATER, MA; MAP 4; ARCHEOLOGICAL RESOURCE" PREPARED BY WALTER CUDNOHUFSKY ASSOCIATES, AND DATED JUNE 24, 2002.

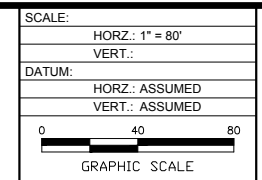
- 5. AMES MACHINE SHOPS
- 6. SAWMILL LOCATION (DEPRESSION ONLY)
- 4. POSSIBLE TRIP HAMMER SITE
- 1. SOUTHERN FOUNDRY
- 2,3. NORTHERN FOUNDRY
- POTENTIAL NATIVE AMERICAN SITES
- 7. BUILDING OF UNDETERMINED LIFE (DEPRESSION ONLY)



No.	DATE	DESCRIPTION	BY
1.			

PROJ. MANAGER:	NSW
CHIEF DESIGNER:	RLW
REVIEWED BY:	DATE

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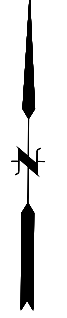
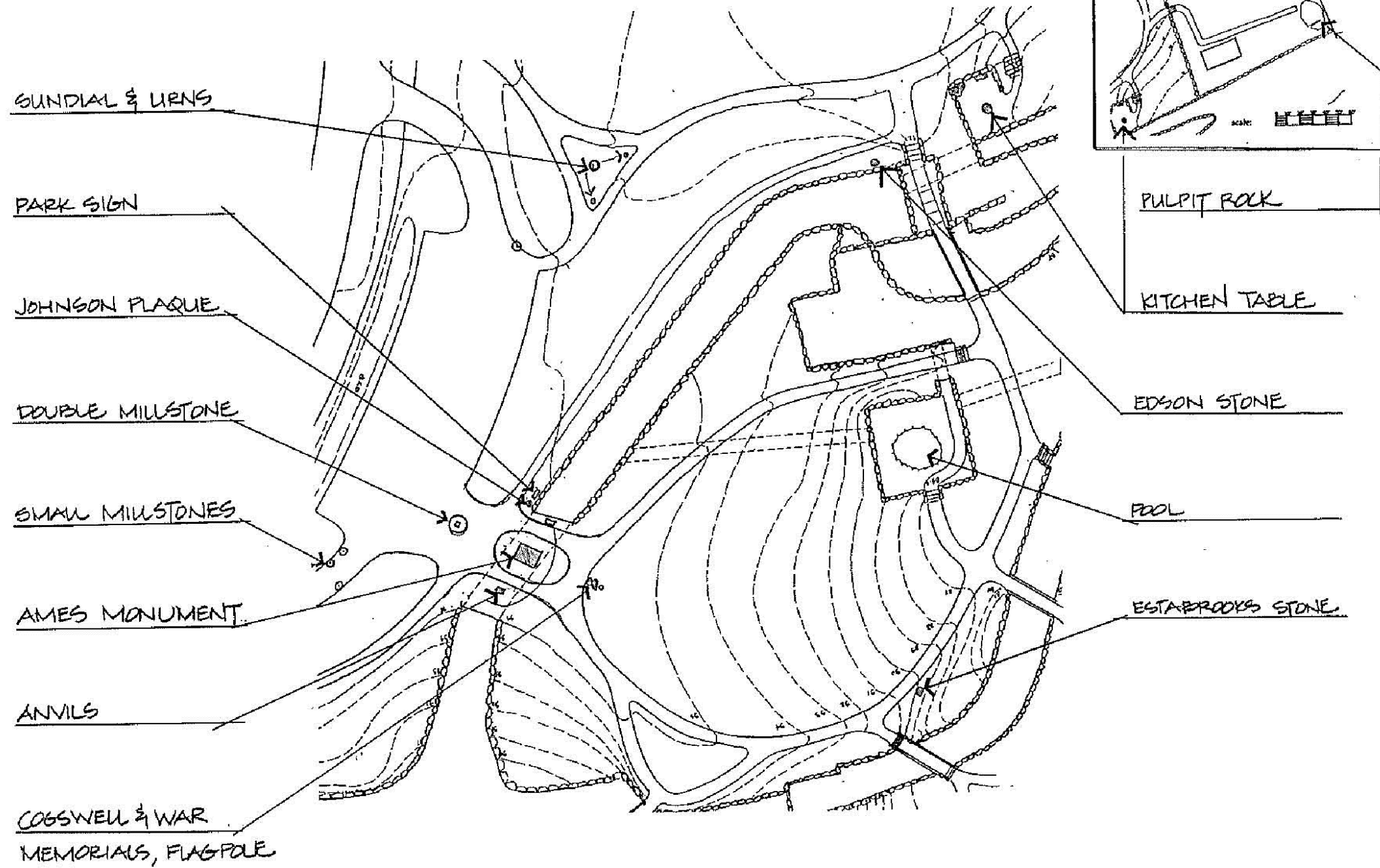
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TOWN OF WEST BRIDGEWATER
 EXISTING ARCHEOLOGICAL RESOURCES PLAN
 REPAIR AND RECONSTRUCTION OF STONE WALLS
 WAR MEMORIAL PARK
 RIVER STREET WEST BRIDGEWATER, MASSACHUSETTS

PROJ. No.: 20090735.C40
 DATE: JUNE 2017
GI-101

MAP REFERENCE:

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 IMS VIEW: MS15-SC CHAN SH13
 LUCS: WRLD

No.	DATE	DESCRIPTION	BY
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REVISIONS			

PROJ. MANAGER: NSW
 CHIEF DESIGNER: RLW
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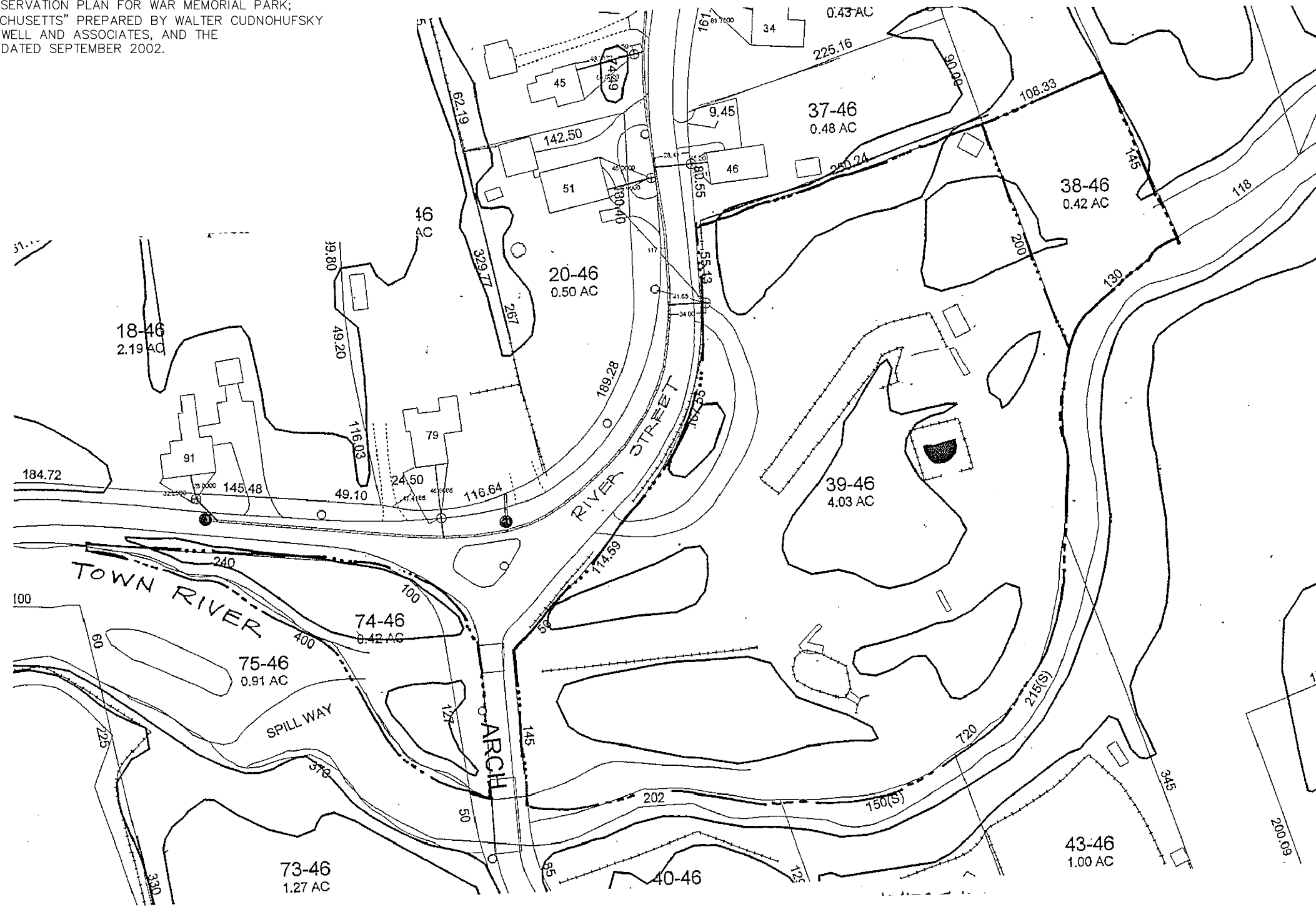
TOWN OF WEST BRIDGEWATER
 EXISTING OBJECTS PLAN
 REPAIR AND RECONSTRUCTION OF STONE WALLS
 WAR MEMORIAL PARK
 RIVER STREET
 WEST BRIDGEWATER, MASSACHUSETTS

PROJ. No.: 20090735.C40
 DATE: JUNE 2017

GI-104

MAP REFERENCE:

1. INFORMATION DEPICTED ON THIS PLAN WAS OBTAINED FROM A PLAN ENTITLED "WAR MEMORIAL PARK - PARCELS 74-46, 39-46, 38-46" ENCLOSED WITHIN "THE PRESERVATION PLAN FOR WAR MEMORIAL PARK; WEST BRIDGEWATER, MASSACHUSETTS" PREPARED BY WALTER CUDNOHUFSKY ASSOCIATES, JOAN S. ROCKWELL AND ASSOCIATES, AND THE ENVIRONMENTAL INSTITUTE, DATED SEPTEMBER 2002.



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 LUMAN:
 IMS VIEW: MS15-SC CHAN SHT3
 LUCS: WRLD

PROJ. MANAGER: NSW		CHIEF DESIGNER: RLW	
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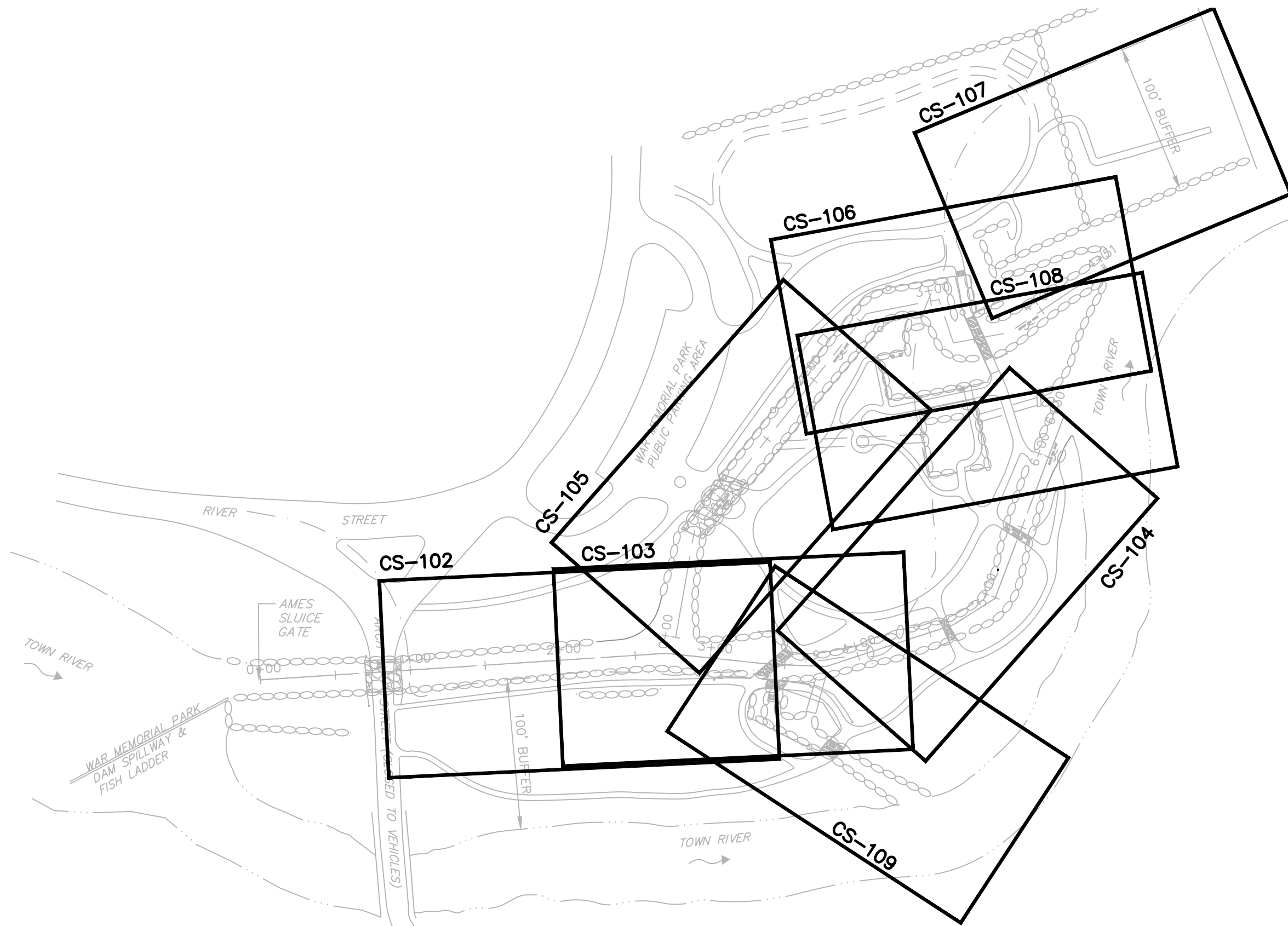
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TOWN OF WEST BRIDGEWATER
 EXISTING PARCEL PLAN
 REPAIR AND RECONSTRUCTION OF STONE WALLS
 WAR MEMORIAL PARK
 RIVER STREET
 WEST BRIDGEWATER, MASSACHUSETTS

PROJ. No.: 20090735.C40
 DATE: JUNE 2017
GI-105



No.	DATE	DESCRIPTION	BY
1.			
REVISIONS			

PROJ. MANAGER:	NSW
CHIEF DESIGNER:	RLW
REVIEWED BY:	DATE

PRELIMINARY - NOT FOR CONSTRUCTION

SCALE:	
HORIZ.:	1" = 70'
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TOWN OF WEST BRIDGEWATER
 SHEET LAYOUT PLAN
 REPAIR AND RECONSTRUCTION OF STONE WALLS
 WAR MEMORIAL PARK
 RIVER STREET
 WEST BRIDGEWATER, MASSACHUSETTS

PROJ. No.: 20090735.C40
 DATE: JUNE 2017

CS-101

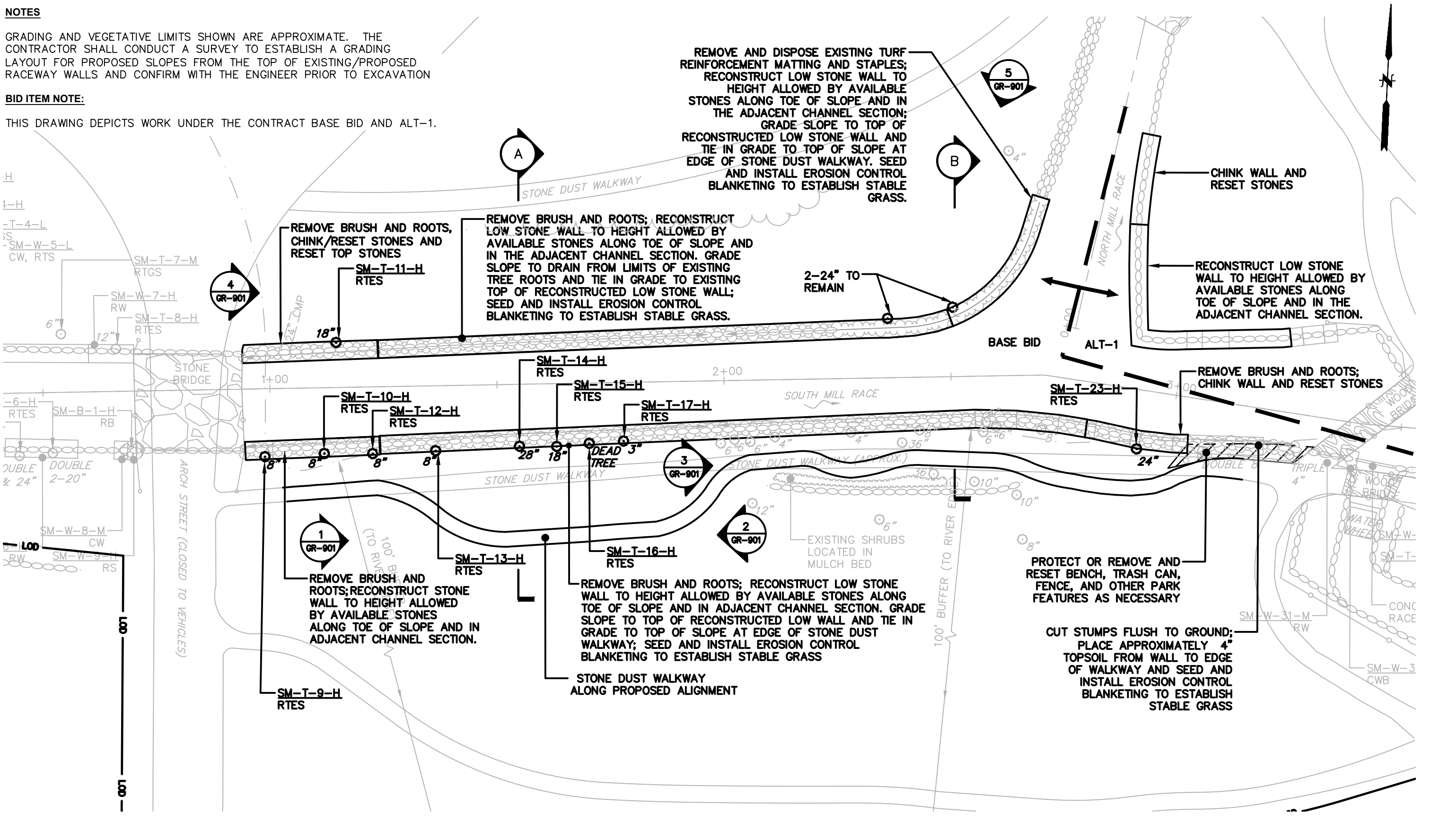
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 LUCS:WRLD
 LMAN:
 IMS VIEW: MS15-SC CHAN SH11
 CTEL: FO 2008 MONO

NOTES

GRADING AND VEGETATIVE LIMITS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL CONDUCT A SURVEY TO ESTABLISH A GRADING LAYOUT FOR PROPOSED SLOPES FROM THE TOP OF EXISTING/PROPOSED RACEWAY WALLS AND CONFIRM WITH THE ENGINEER PRIOR TO EXCAVATION

BID ITEM NOTE:

THIS DRAWING DEPICTS WORK UNDER THE CONTRACT BASE BID AND ALT-1.



No.	DATE	DESCRIPTION	BY
1.			
REVISIONS			

PROJ. MANAGER:	NSW
CHIEF DESIGNER:	RLW
REVIEWED BY:	DATE

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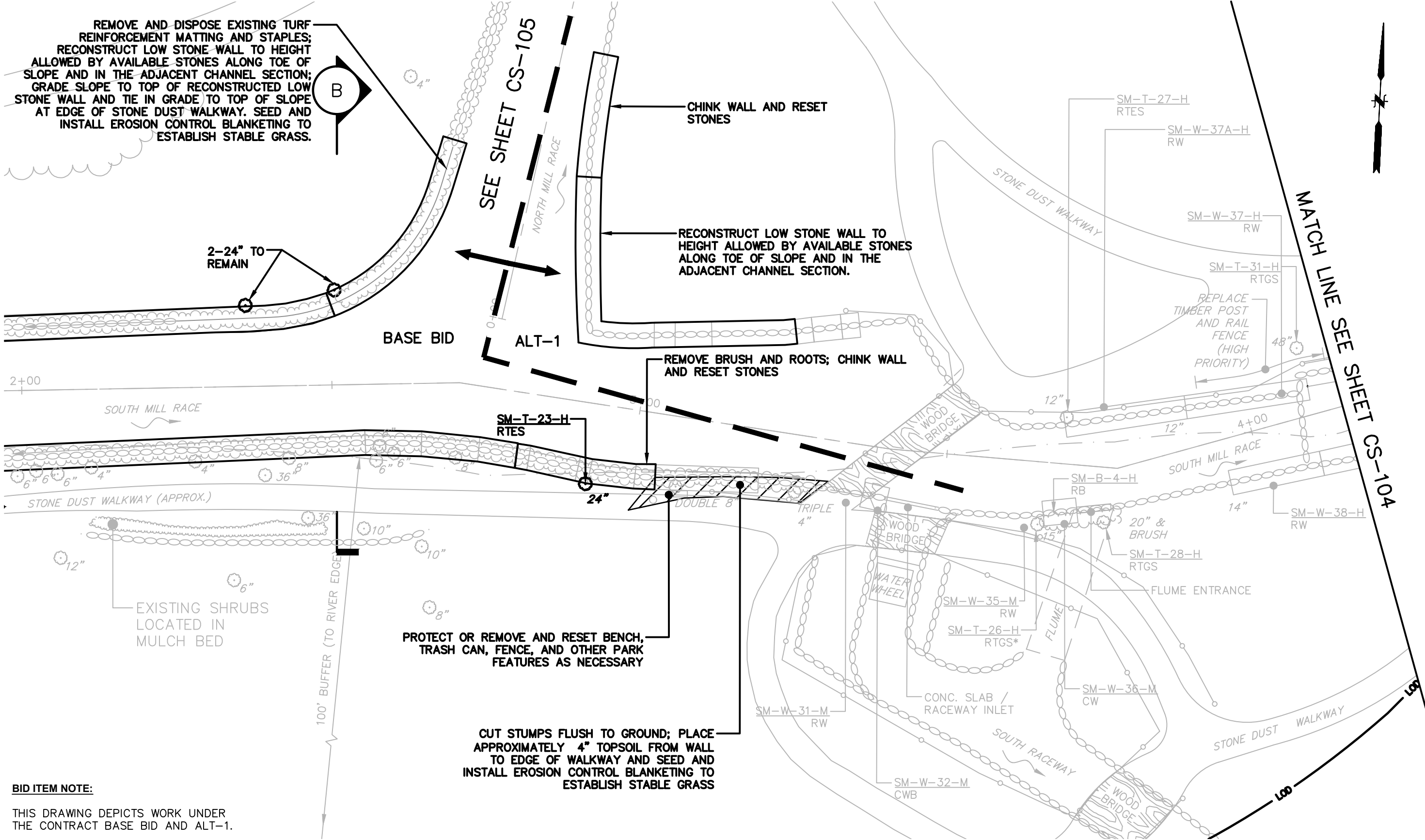
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TOWN OF WEST BRIDGEWATER
 SOUTH MILL RACE - SITE PLAN NO. 1
 REPAIR AND RECONSTRUCTION OF STONE WALLS
 WAR MEMORIAL PARK
 RIVER STREET WEST BRIDGEWATER, MASSACHUSETTS

PROJ. No.: 20090735.C40
 DATE: JUNE 2017

CS-102

File Path: J:\DWG\20090735\C40\CivilPlan\WarMemorialPark\20090735C40_STP102.dwg, Layout: CS-103, Fri, Jun 30, 2017, 8:56 AM, User: rweiler
 CTEL: FO 2008 MONO
 LUMAN:
 IMS VIEW: MS15-SC CHAN SHTZ
 UCS: WRLD



MATCH LINE SEE SHEET CS-104

BID ITEM NOTE:
 THIS DRAWING DEPICTS WORK UNDER THE CONTRACT BASE BID AND ALT-1.

PROJ. MANAGER: NSW			
CHIEF DESIGNER: RLW			
REVIEWED BY: DATE			
No.	DATE	DESCRIPTION	BY
REVISIONS			

SCALE:	HORIZ.: 1" = 15'
	VERT.:
DATUM:	HORIZ.: ASSUMED
	VERT.: ASSUMED
GRAPHIC SCALE	

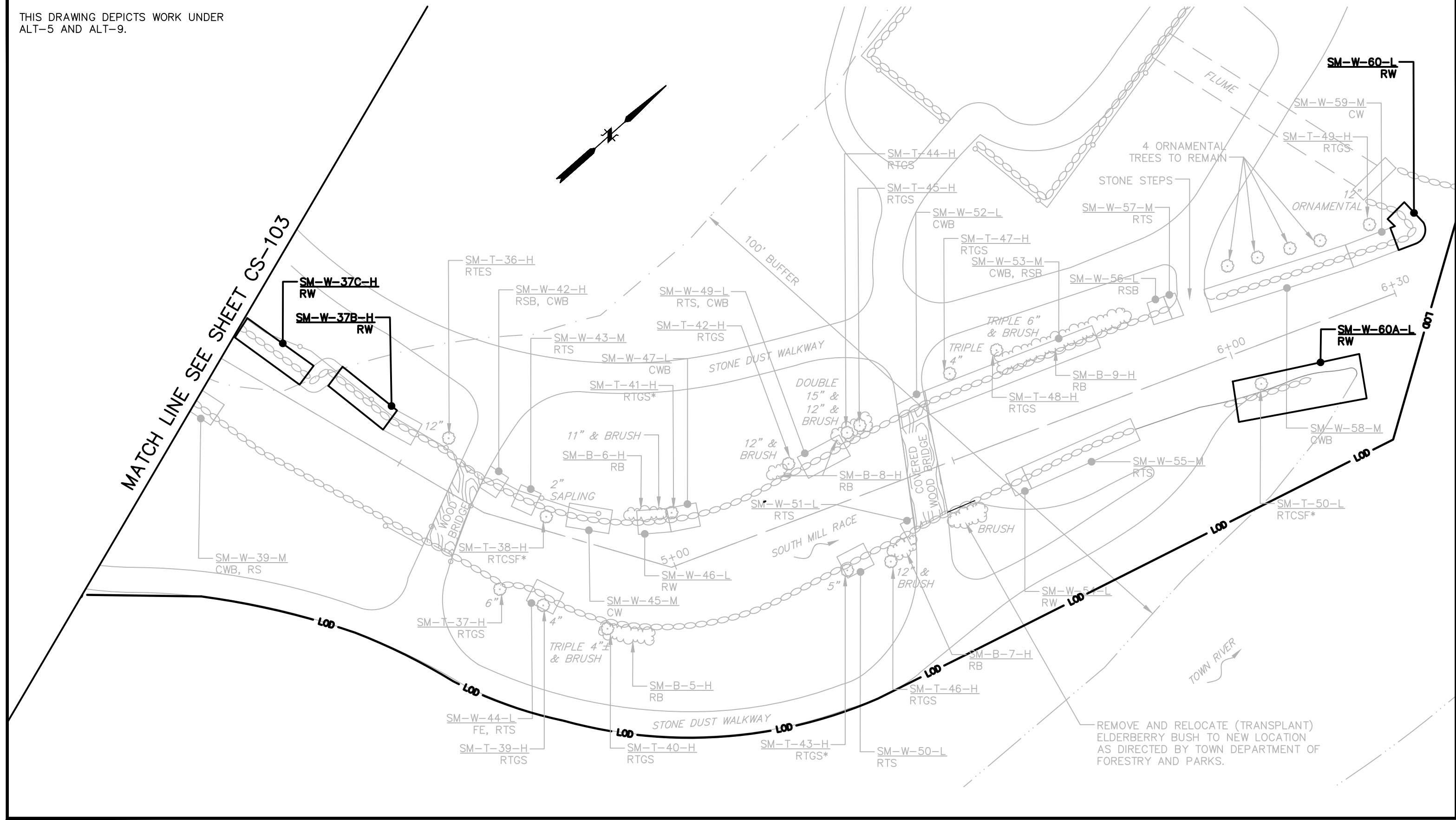
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TOWN OF WEST BRIDGEWATER
 SOUTH MILL RACE - SITE PLAN NO. 2
 REPAIR AND RECONSTRUCTION OF STONE WALLS
 WAR MEMORIAL PARK
 RIVER STREET
 WEST BRIDGEWATER, MASSACHUSETTS

PROJ. No.: 20090735.C40
 DATE: JUNE 2017
CS-103

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 CTEL: FO 2008 NDRD
 LUMAN:
 LMS VIEW: MS15-SC CHAN SHT3
 LUGS: WRLD

BID ITEM NOTE:
 THIS DRAWING DEPICTS WORK UNDER
 ALT-5 AND ALT-9.



No.	DATE	DESCRIPTION	BY
1.			
REVISIONS			

PROJ. MANAGER:	NSW
CHIEF DESIGNER:	RLW
REVIEWED BY:	DATE

SCALE:	
HORZ.:	1" = 15'
VERT.:	
DATUM:	
HORZ.:	ASSUMED
VERT.:	ASSUMED
GRAPHIC SCALE	

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TOWN OF WEST BRIDGEWATER
 SOUTH MILL RACE - SITE PLAN NO. 3
 REPAIR AND RECONSTRUCTION OF STONE WALLS
 WAR MEMORIAL PARK
 RIVER STREET
 WEST BRIDGEWATER, MASSACHUSETTS

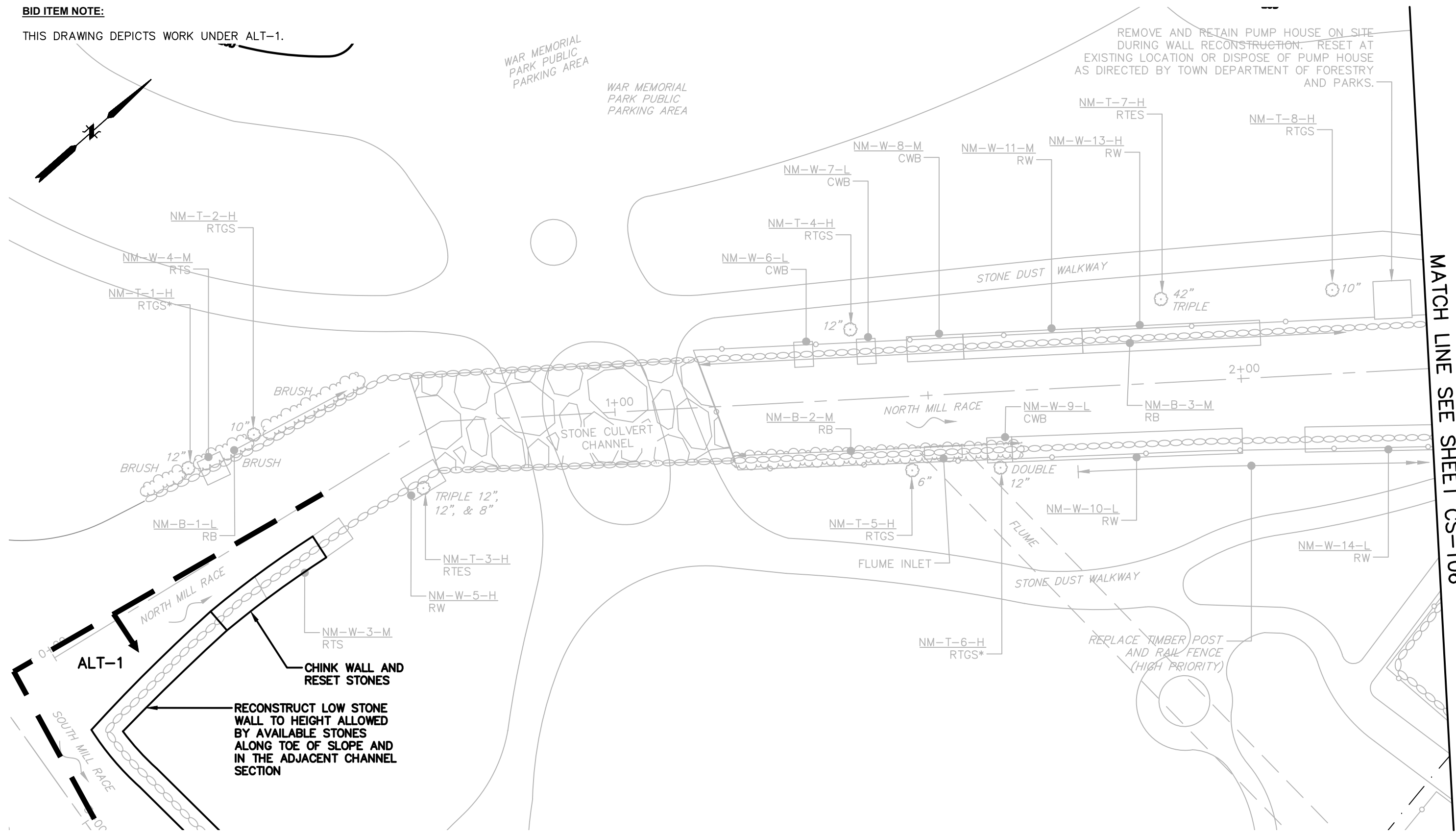
PROJECT No.: 20090735.C40
 DATE: JUNE 2017

CS-104

File Path: J:\DWG\20090735C40\CivilPlanWarMemorialPark\20090735C40_STP102.dwg, Layout: CS-105, Fri, Jun 30, 2017, 8:56 AM, User: rweiler
 CTEL: FO 2008 MONO
 LUMAN:
 IMS VIEW: MS15-SC CHAN SHT3
 LUCS: WRLD

BID ITEM NOTE:

THIS DRAWING DEPICTS WORK UNDER ALT-1.

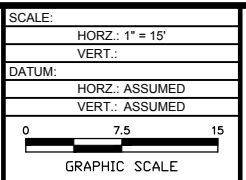


MATCH LINE SEE SHEET CS-106

No.	DATE	DESCRIPTION	BY
1.			
REVISIONS			

PROJ. MANAGER:	NSW
CHIEF DESIGNER:	RLW
REVIEWED BY:	DATE

SCALE:	
HORIZ.:	1" = 15'
VERT.:	
DATUM:	
HORIZ.:	ASSUMED
VERT.:	ASSUMED





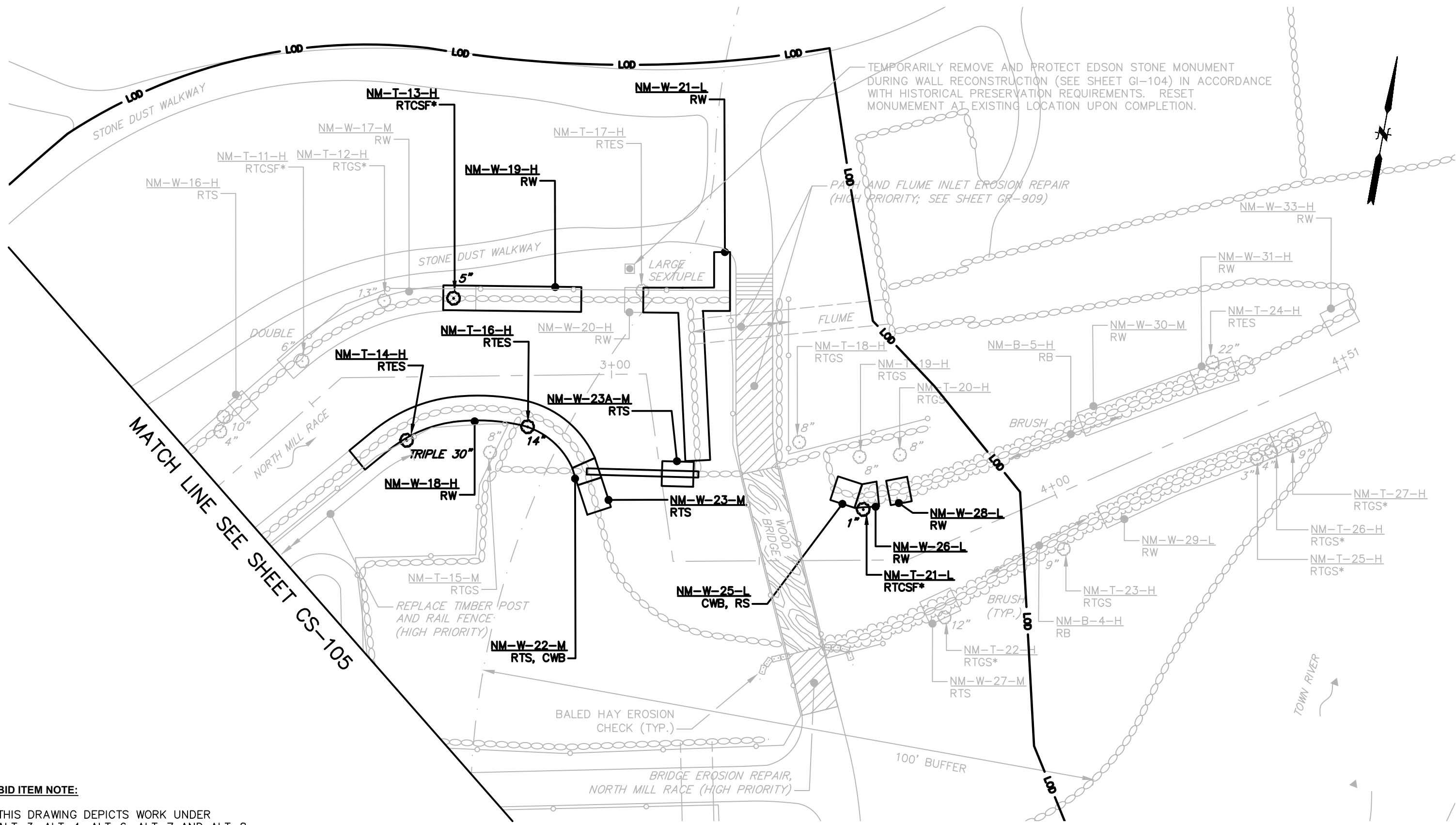
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TOWN OF WEST BRIDGEWATER
 NORTH MILL RACE - SITE PLAN NO. 4
 REPAIR AND RECONSTRUCTION OF STONE WALLS
 WAR MEMORIAL PARK
 RIVER STREET
 WEST BRIDGEWATER, MASSACHUSETTS

PROJ. No.: 20090735.C40
 DATE: JUNE 2017

CS-105



MATCH LINE SEE SHEET CS-105

BID ITEM NOTE:
 THIS DRAWING DEPICTS WORK UNDER
 ALT-3, ALT-4, ALT-6, ALT-7 AND ALT-8.

PROJ. MANAGER: NSW		CHIEF DESIGNER: RLW	
REVIEWED BY:		DATE:	
No.	DATE	DESCRIPTION	BY
REVISIONS			

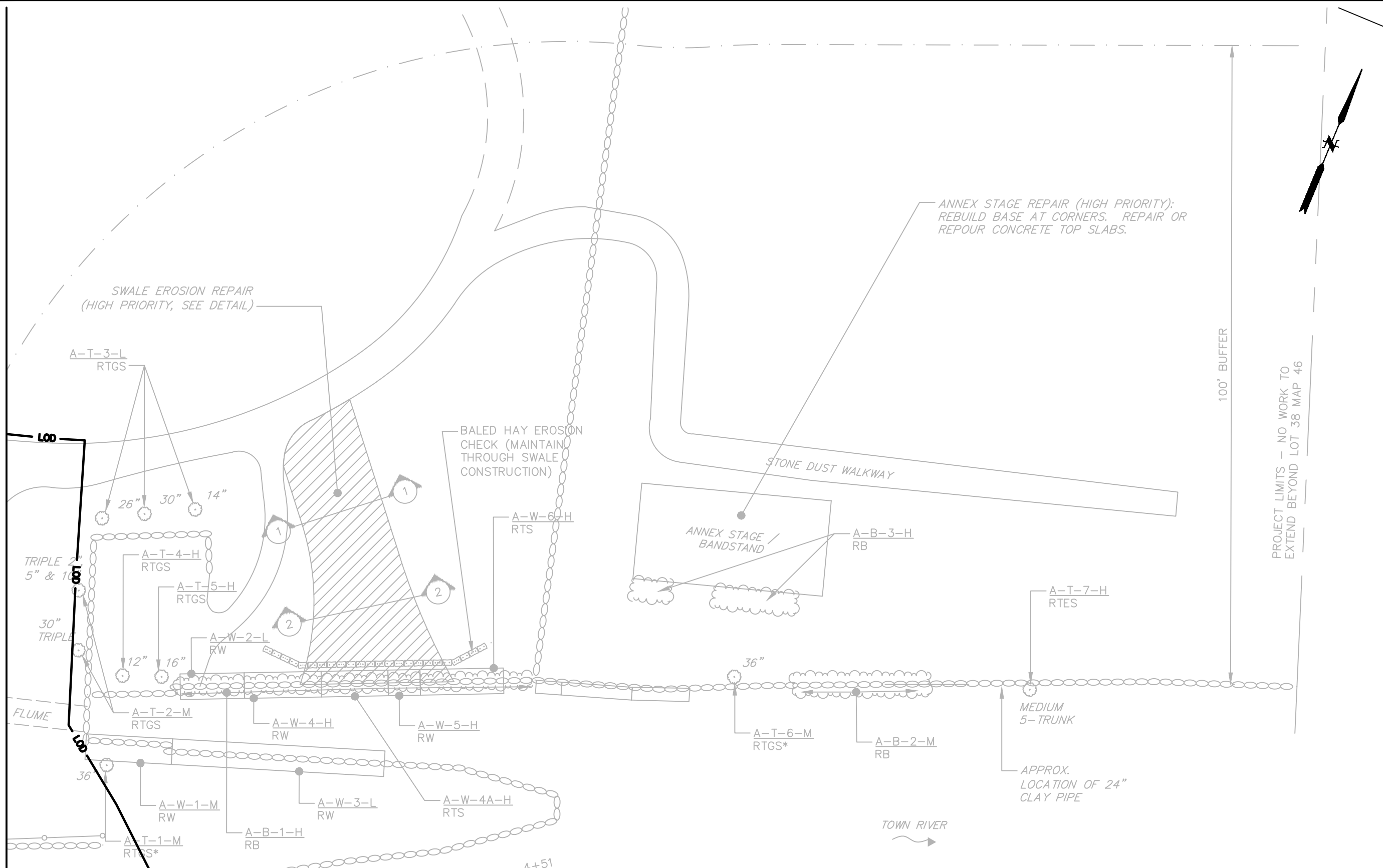
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	VERT.:
DATUM:	HORIZ.: ASSUMED
	VERT.: ASSUMED
GRAPHIC SCALE	

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TOWN OF WEST BRIDGEWATER
 NORTH MILL RACE - SITE PLAN NO. 5
 REPAIR AND RECONSTRUCTION OF STONE WALLS
 WAR MEMORIAL PARK
 RIVER STREET
 WEST BRIDGEWATER, MASSACHUSETTS

PROJ. No.: 20090735.C40
DATE: JUNE 2017
CS-106

MATCH LINE SEE SHEET CS-106



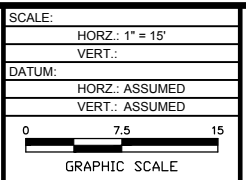
100' BUFFER
PROJECT LIMITS - NO WORK TO EXTEND BEYOND LOT 38 MAP 46

MATCH LINE SEE SHEET CS-106 AND CS-108

No.	DATE	DESCRIPTION	BY
1.	10/17/11	ADDENDUM NO. 1	NSW
REVISIONS			

PROJ. MANAGER:	NSW
CHIEF DESIGNER:	RMW
REVIEWED BY:	DATE

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	VERT.:
DATUM:	HORZ.: ASSUMED
	VERT.: ASSUMED



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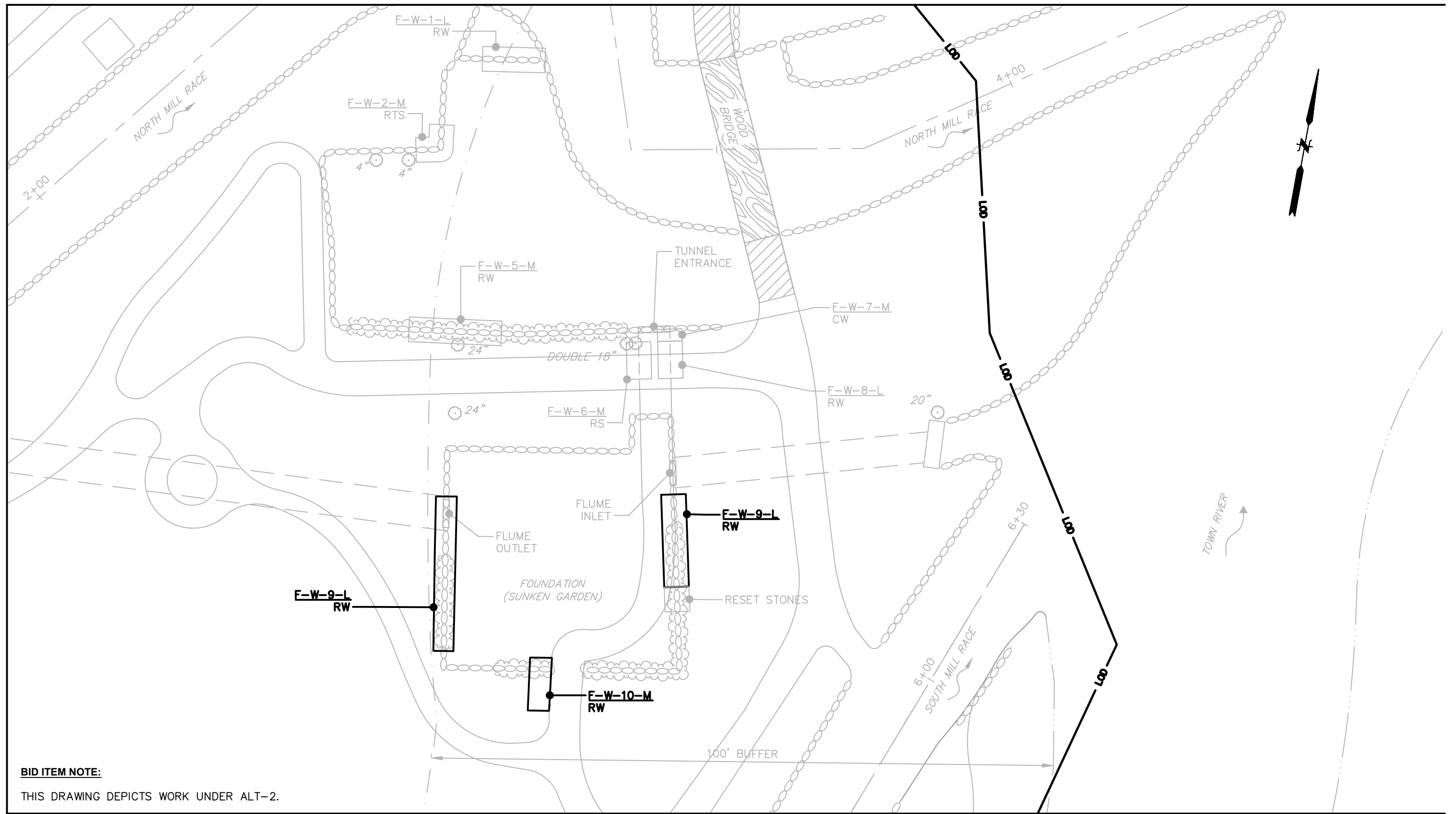
TOWN OF WEST BRIDGEWATER
 ANNEX AREA - SITE PLAN NO. 6
 REPAIR AND RECONSTRUCTION OF STONE WALLS
 WAR MEMORIAL PARK
 RIVER STREET
 WEST BRIDGEWATER, MASSACHUSETTS

PROJ. No.: 20090735.C40
 DATE: JUNE 2017
CS-107

File Path: J:\DWG\20090735C40\Civil\Plan\WarMemorialPark\20090735C40_STP102.dwg, Layout: CS-108, Fri, Jun 30, 2017, 8:56 AM, User: rweiler
 CTEL: FO 2008 NORD
 LUMAN:
 IMS VIEW: MS15-NO CHAN SHT5
 LUCS: WRLD

MATCH LINE SEE SHEET CS-107

MATCH LINE SEE SHEET CS-105



BID ITEM NOTE:
THIS DRAWING DEPICTS WORK UNDER ALT-2.

MATCH LINE SEE SHEET CS-104

No.	DATE	DESCRIPTION	BY
1.			
REVISIONS			

PROJ. MANAGER:	NSW
CHIEF DESIGNER:	RLW
REVIEWED BY:	DATE

SCALE:	HORZ.: 1" = 15'
	VERT.:
DATUM:	HORZ.: ASSUMED
	VERT.: ASSUMED
GRAPHIC SCALE	


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TOWN OF WEST BRIDGEWATER
 FOUNDATION AREA - SITE PLAN NO. 7
 REPAIR AND RECONSTRUCTION OF STONE WALLS
 WAR MEMORIAL PARK
 RIVER STREET
 WEST BRIDGEWATER, MASSACHUSETTS

PROJ. No.: 20090735.C40
 DATE: JUNE 2017

CS-108

File Path: J:\DWG\20090735\C40\CivilPlan\WarMemorialPark\20090735C40_STP102.dwg, Layout: CS-109, Fri, Jun 30, 2017, 8:56 AM, User: rweiler
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 LMAN:
 CTEL: FO 2008 NORDO
 IMS VIEW: MS15-NO CHAN SHT5

MATCH LINE SEE SHEET CS-104

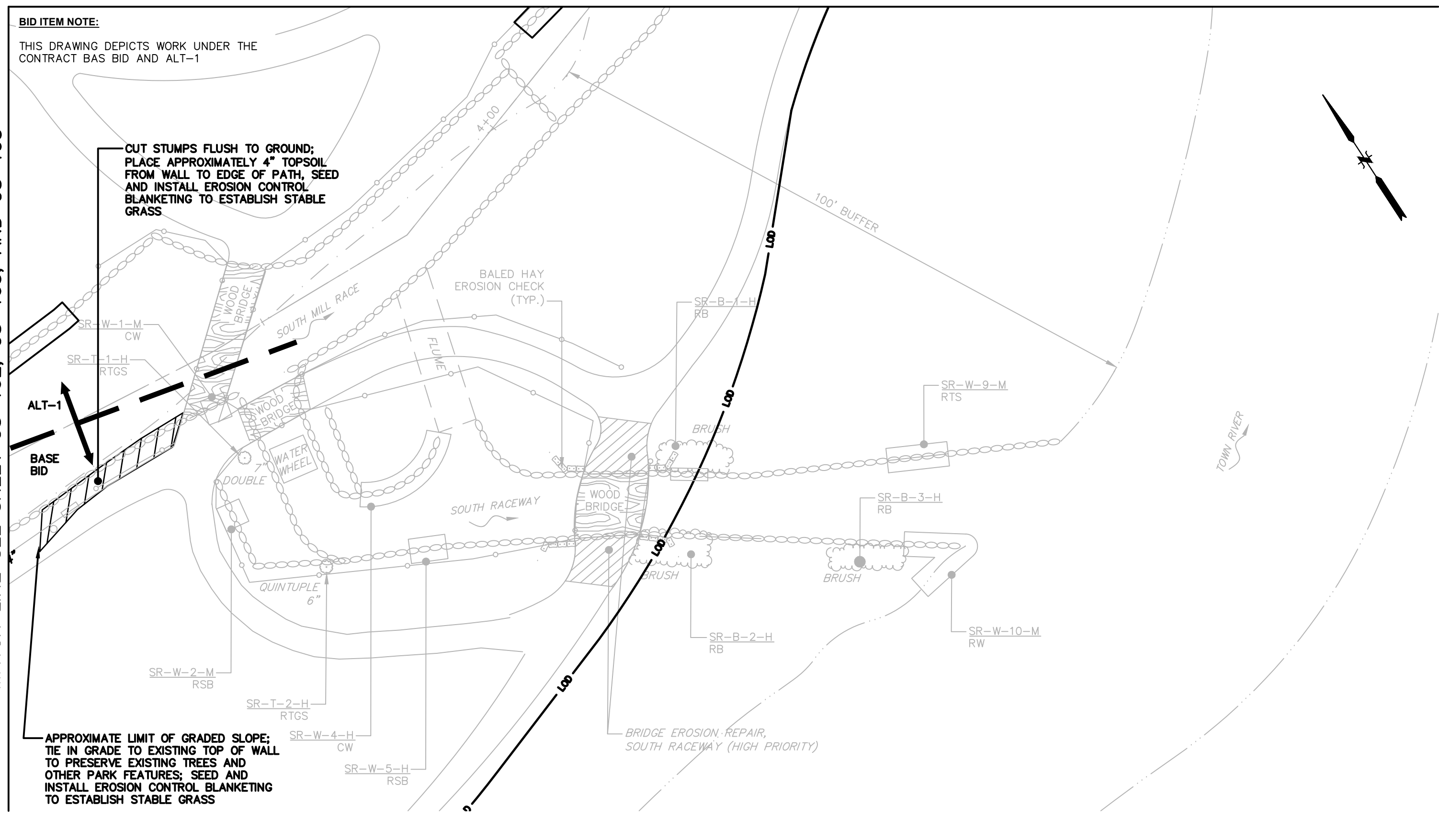
BID ITEM NOTE:

THIS DRAWING DEPICTS WORK UNDER THE CONTRACT BAS BID AND ALT-1

CUT STUMPS FLUSH TO GROUND;
 PLACE APPROXIMATELY 4" TOPSOIL
 FROM WALL TO EDGE OF PATH, SEED
 AND INSTALL EROSION CONTROL
 BLANKETING TO ESTABLISH STABLE
 GRASS

APPROXIMATE LIMIT OF GRADED SLOPE;
 TIE IN GRADE TO EXISTING TOP OF WALL
 TO PRESERVE EXISTING TREES AND
 OTHER PARK FEATURES; SEED AND
 INSTALL EROSION CONTROL
 BLANKETING TO ESTABLISH STABLE
 GRASS

MATCH LINE SEE SHEET CS-102, CS-103, AND CS-105



No.	DATE	DESCRIPTION	BY
1.			
REVISIONS			

PROJ. MANAGER:	NSW
CHIEF DESIGNER:	RLW
REVIEWED BY:	DATE

SCALE:	
HORZ.:	1" = 15'
VERT.:	
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HORZ.:	ASSUMED
VERT.:	ASSUMED
GRAPHIC SCALE	

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TOWN OF WEST BRIDGEWATER
 SOUTH RACEWAY - SITE PLAN NO. 8
 REPAIR AND RECONSTRUCTION OF STONE WALLS
 WAR MEMORIAL PARK
 RIVER STREET
 WEST BRIDGEWATER, MASSACHUSETTS

PROJ. No.: 20090735.C40
 DATE: JUNE 2017

CS-109

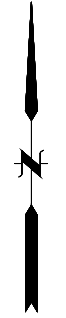
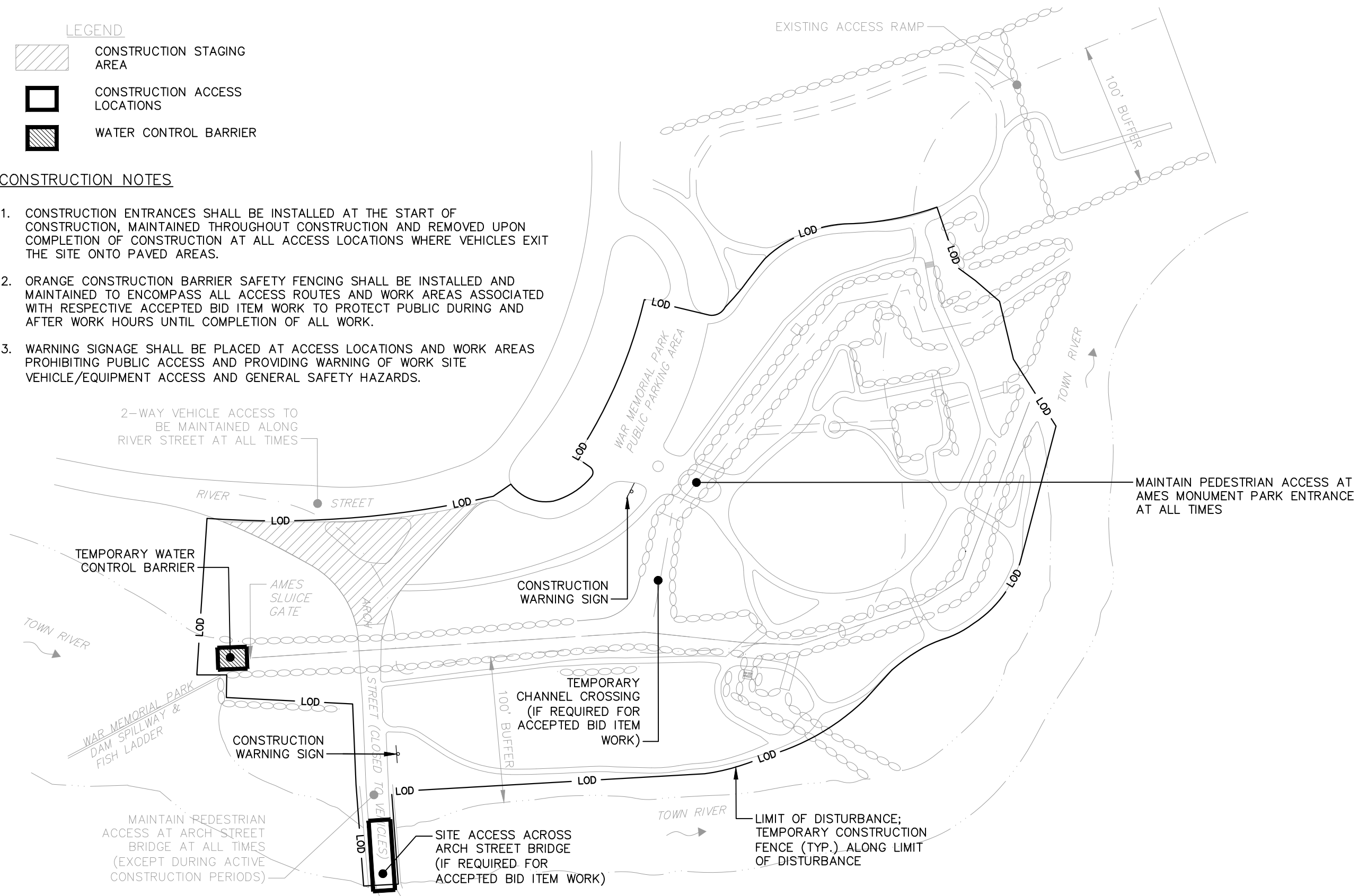
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 CTEL: FO 2008 NODNO
 LMAN:
 IMS VIEW: MS70-OVERALL
 UCS: WRLD

LEGEND

-  CONSTRUCTION STAGING AREA
-  CONSTRUCTION ACCESS LOCATIONS
-  WATER CONTROL BARRIER

CONSTRUCTION NOTES


1. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE START OF CONSTRUCTION, MAINTAINED THROUGHOUT CONSTRUCTION AND REMOVED UPON COMPLETION OF CONSTRUCTION AT ALL ACCESS LOCATIONS WHERE VEHICLES EXIT THE SITE ONTO PAVED AREAS.
2. ORANGE CONSTRUCTION BARRIER SAFETY FENCING SHALL BE INSTALLED AND MAINTAINED TO ENCOMPASS ALL ACCESS ROUTES AND WORK AREAS ASSOCIATED WITH RESPECTIVE ACCEPTED BID ITEM WORK TO PROTECT PUBLIC DURING AND AFTER WORK HOURS UNTIL COMPLETION OF ALL WORK.
3. WARNING SIGNAGE SHALL BE PLACED AT ACCESS LOCATIONS AND WORK AREAS PROHIBITING PUBLIC ACCESS AND PROVIDING WARNING OF WORK SITE VEHICLE/EQUIPMENT ACCESS AND GENERAL SAFETY HAZARDS.



No.	DATE	DESCRIPTION	BY
REVISIONS			

PROJ. MANAGER: NSW	CHIEF DESIGNER: RLW
REVIEWED BY:	DATE:

SCALE:	HORIZ.: 1" = 70'
	VERT.:
DATUM:	HORIZ.: ASSUMED
	VERT.: ASSUMED
 GRAPHIC SCALE	



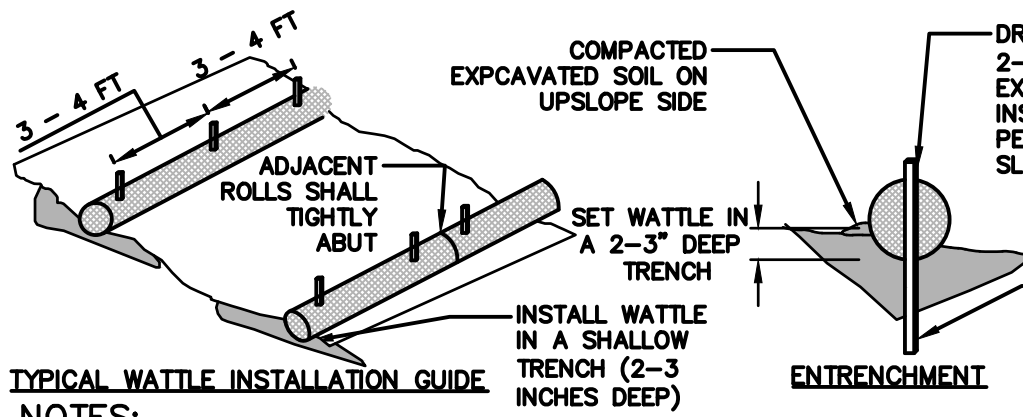
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TOWN OF WEST BRIDGEWATER
 CONSTRUCTION ACCESS PLAN
 REPAIR AND RECONSTRUCTION OF STONE WALLS
 WAR MEMORIAL PARK
 RIVER STREET
 WEST BRIDGEWATER, MASSACHUSETTS

PROJ. No.: 20090735.C40 DATE: JUNE 2017	<p style="font-size: 24pt; font-weight: bold;">CS-110</p>
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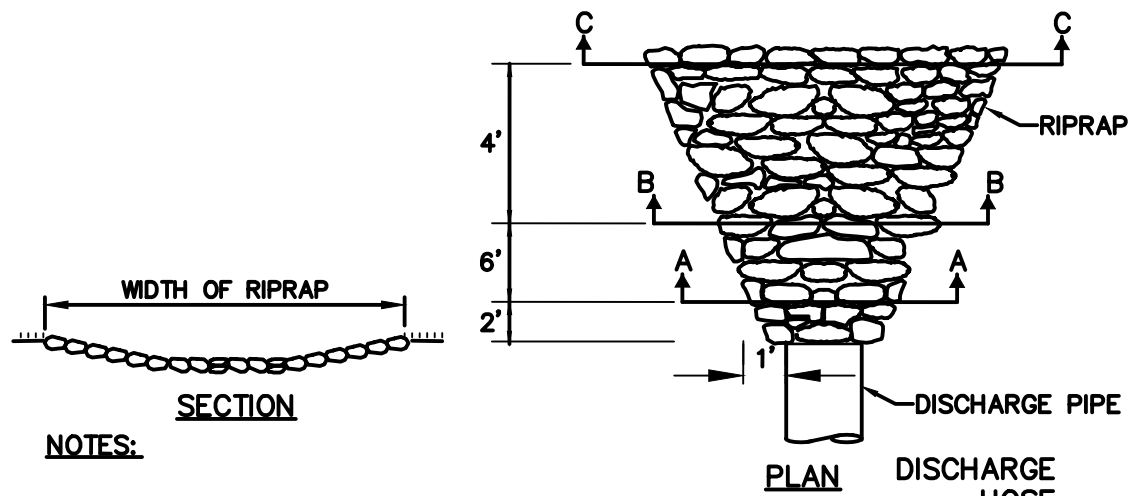
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 LUCS:WRLD
 LMAN:
 IMS VIEW: MS70-OVERALL
 CITE: FO 2008 NIONO



TYPICAL WATTLE INSTALLATION GUIDE

- NOTES:**
1. WATTLES SHALL BE TRENCHED APPROXIMATE 2-3 INCHES AND STAKED SUCH THAT WATTLES DIRECTLY CONTACT SOIL AND PRECLUDE UNDERMINING OR BLOWOUTS. THE TRENCH SHALL BE APPROXIMATELY 9 INCHES WIDE. STAKES SHALL BE DRIVEN THROUGH THE CENTER OF THE WATTLE AT A SPACING OF 3-4 FEET ON CENTER AND NO GREATER THAN 6" FROM THE EACH END OF THE WATTLE. STAKES SHALL BE 1-INCH BY 1-INCH WOODEN STAKES WITH A LENGTH OF 18-24 INCHES. COMPACT SOIL EXCAVATED TO CREATE TRENCH ON UPHILL SIDE.
 2. ENDS OF ADJACENT WATTLES SHALL BE TIGHTLY BUTTED OR OVERLAPPED SO THAT NO OPENING EXISTS FOR WATER TO PASS THROUGH. WATTLES SHALL BE FREE OF DAMAGE OR DEFECTS WHEN DELIVERED TO THE SHIPPER. NO VEHICLES SHALL BE DRIVEN OVER WATTLES.
 3. PLACE WATTLE AT BOTTOM OF SLOPE ALONG CONTOURS AND PLACE EXTRA ROWS OF WATTLES AS REQUIRED TO PREVENT SEDIMENT RUNOFF, ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
 4. A ROW OF WATTLES (WEIGHTED DOWN NOT STAKED) SHALL BE INSTALLED AROUND ANY SOIL STOCKPILE AREAS UTILIZED BY THE CONTRACTOR DURING CONSTRUCTION IN PAVED AREAS

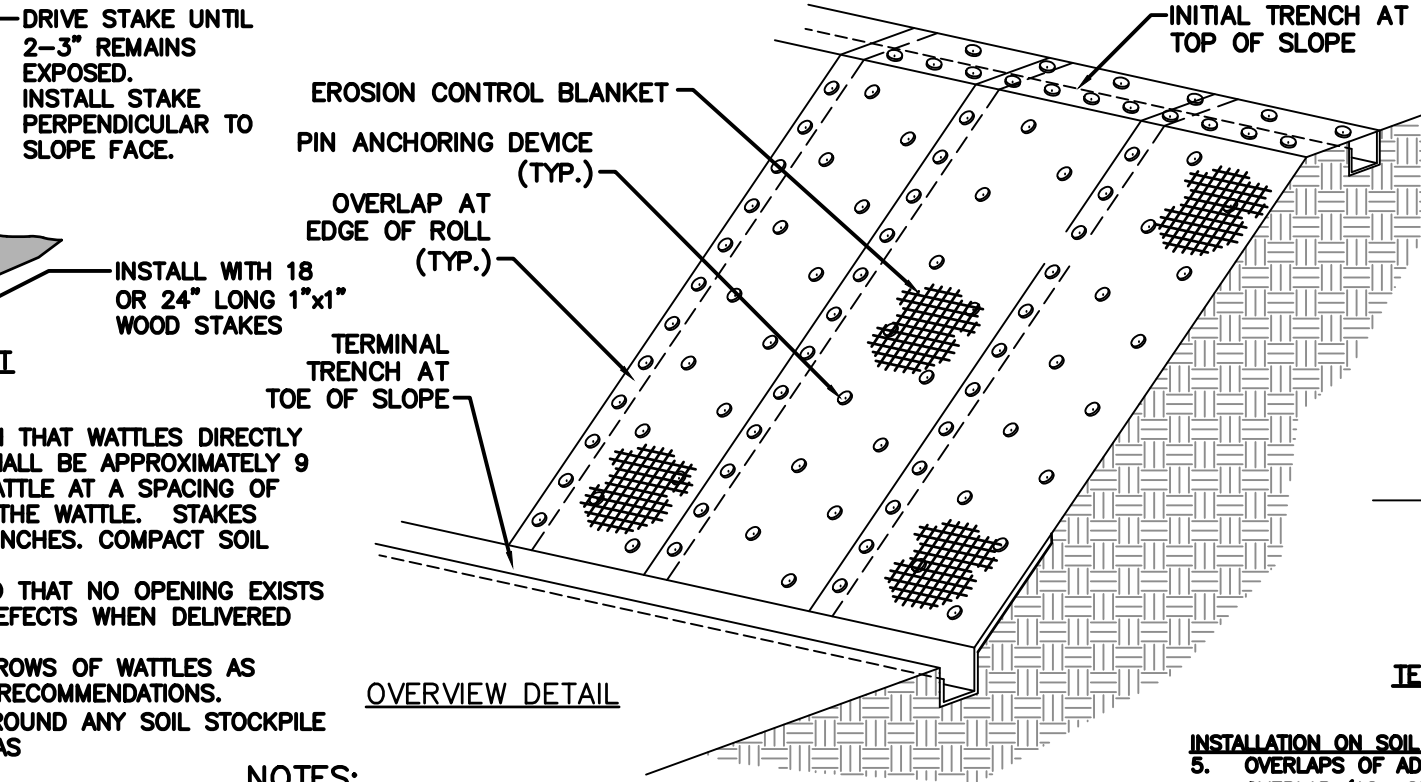
STRAW WATTLE
NOT TO SCALE



- NOTES:**
1. RIPRAP SHALL CONFORM TO SECTION M2.02.0 OF THE STANDARD SPECIFICATIONS.
 2. DIMENSIONS MAY BE MODIFIED BY ENGINEER TO MEET FIELD CONDITIONS.
 3. RIPRAP SHALL BE PLACED.
 4. WIDTH OF RIPRAP AT SECTION A-A SHALL BE 2' GREATER THAN THE DIAMETER OF THE DISCHARGE PIPE
 5. WIDTH OF RIPRAP AT SECTION B-B SHALL BE 6' GREATER THAN THE DIAMETER OF THE DISCHARGE PIPE
 6. WIDTH OF RIPRAP AT SECTION C-C SHALL BE 10' GREATER THAN THE DIAMETER OF THE DISCHARGE PIPE

TEMPORARY SCOUR PROTECTION
NOT TO SCALE

PROJ. MANAGER: NSW		SCALE:																	
CHIEF DESIGNER: RLW		HORZ.: AS NOTED																	
REVIEWED BY: DATE		VERT.:																	
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		GRAPHIC SCALE																	
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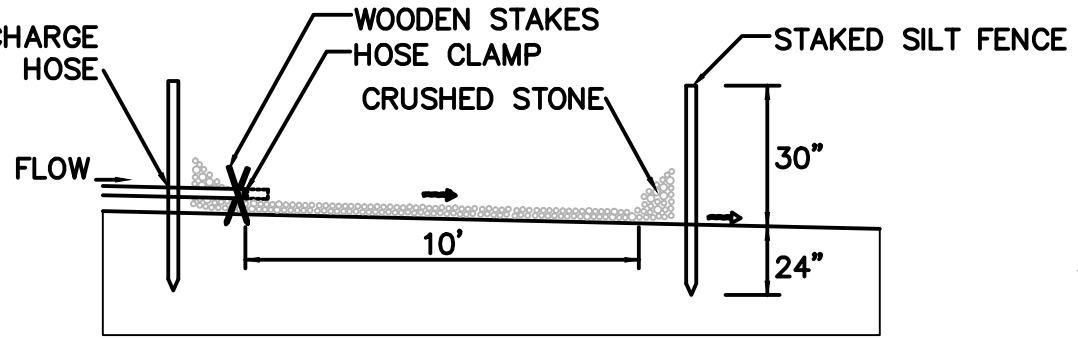


OVERVIEW DETAIL

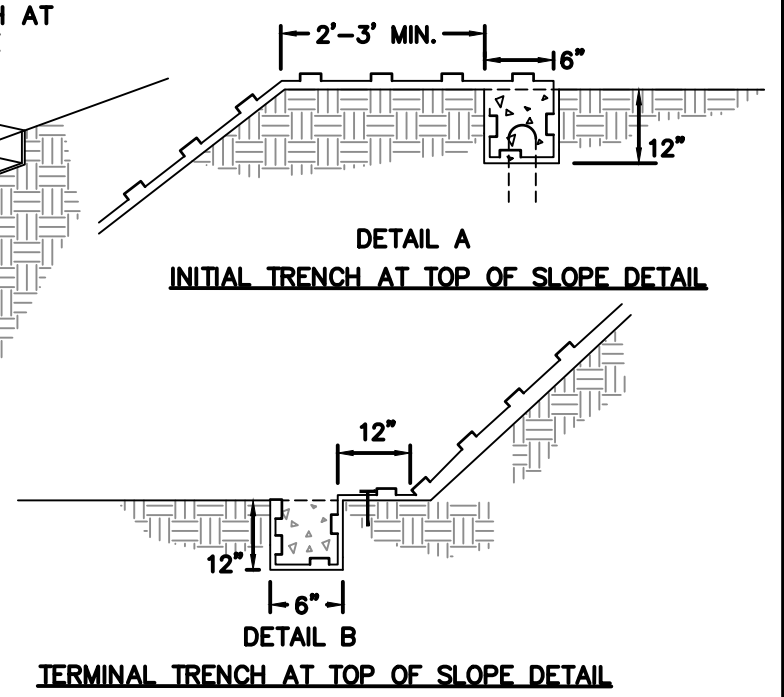
NOTES:

- SITE PREPARATION**
1. GRADE AND COMPACT AREA OF EROSION CONTROL BLANKET INSTALLATION AS DIRECTED AND APPROVED BY ENGINEER.
 2. PREPARE SEEDBED BY LOOSENING THE TOP FEW INCHES OF DISTURBED SOIL.
 3. INCORPORATE AMENDMENTS SUCH AS LIME AND FERTILIZER AND/OR WET THE SOIL, IF NEEDED.
- SEEDING**
1. APPLY SEED TO SOIL SURFACE BEFORE INSTALLING BLANKET. ALL DISTURBED AREAS SHALL BE RESEED.
 2. SEE DAM REPAIR AND RESTORATION PLAN FOR SEED TYPES AND APPLICATION RATES.
- INSTALLATION ON SOIL SLOPES**
1. EXCAVATE A LONGITUDINAL ANCHOR TRENCH 2-3 FT OVER CREST OF SLOPE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
 2. INSTALL TOP END OF BLANKET INTO TRENCH AND SECURE TO BOTTOM OF TRENCH USING GROUND ANCHORING DEVICES SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
 3. BACKFILL AND COMPACT SOIL INTO TRENCH.
 4. UNROLL BLANKET DOWN SLOPE.

EROSION CONTROL BLANKET
NOT TO SCALE

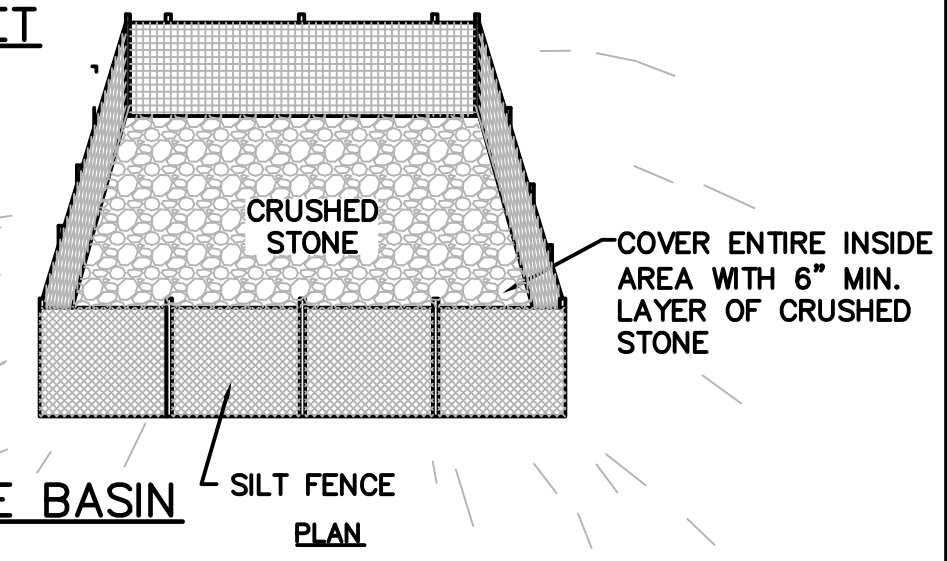


TEMPORARY DEWATERING DISCHARGE BASIN
NOT TO SCALE



INSTALLATION ON SOIL SLOPES (cont.)

5. OVERLAPS OF ADJACENT ROLLS SHALL MEET MINIMUM RECOMMENDED DIMENSION OF OVERLAP (AS SPECIFIED BY MANUFACTURER) AND BLANKET SHALL BE ANCHORED ACCORDINGLY ALONG THE OVERLAP. SECURE EROSION CONTROL BLANKETING USING GROUND ANCHORING DEVICES AT THE APPROPRIATE FREQUENCY AND PATTERN AS RECOMMENDED BY MANUFACTURER.
 1. UNROLL BLANKET IN A MANNER TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT PULL BLANKET TAUT. SECURE BLANKET TO GROUND SURFACE USING ANCHORING DEVICES. EXCAVATE AN ANCHOR TRENCH AT TOE OF SLOPE PER MANUFACTURER'S RECOMMENDATIONS OR AS DIRECTED IN FIELD BY ENGINEER.
 7. INSTALL BOTTOM END OF BLANKET INTO TRENCH AND SECURE TO BOTTOM OF TRENCH USING GROUND ANCHORING DEVICES SPACED ACCORDINGLY; BACKFILL AND COMPACT SOIL IN TRENCH.
- GROUND ANCHORING DEVICES AND ANCHOR PATTERN**
1. U-SHAPED WIRE STAPLES OR METAL GEOTEXTILE PINS CAN BE USED TO ANCHOR BLANKET TO THE GROUND SURFACE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. WIRE STAPLES SHOULD BE A MINIMUM THICKNESS OF 8 GAUGE (4.3 MM). METAL PINS SHOULD BE AT LEAST 0.20 IN (5 MM) DIAMETER STEEL WITH A 1 1/2 IN (38 MM) STEEL WASHER AT THE HEAD OF THE PIN. WIRE STAPLES AND METAL PINS SHOULD BE DRIVEN FLUSH TO THE SOIL SURFACE. ANCHORS SHALL BE INSTALLED IN PATTERN AS RECOMMENDED BY MANUFACTURER.



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TOWN OF WEST BRIDGEWATER
 EROSION CONTROL DETAILS
 REPAIR AND RECONSTRUCTION OF STONE WALLS
 WAR MEMORIAL PARK
 RIVER STREET WEST BRIDGEWATER, MASSACHUSETTS

PROJ. No.: 20090735.C40
 DATE: JUNE 2017
CD-504

