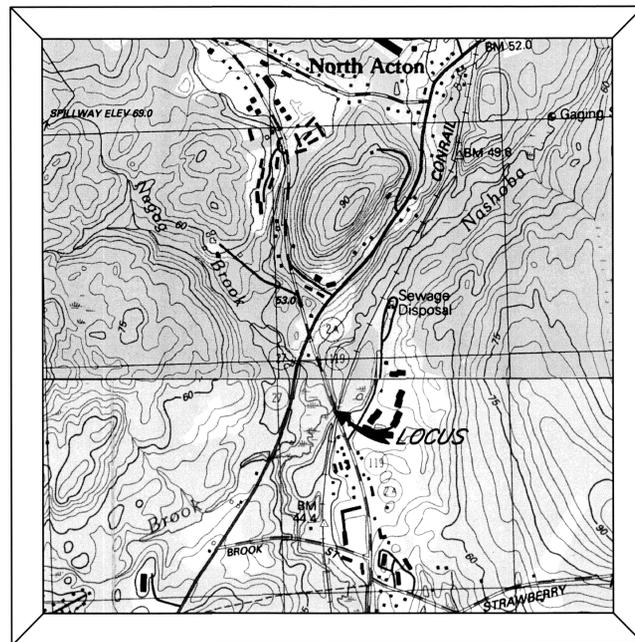
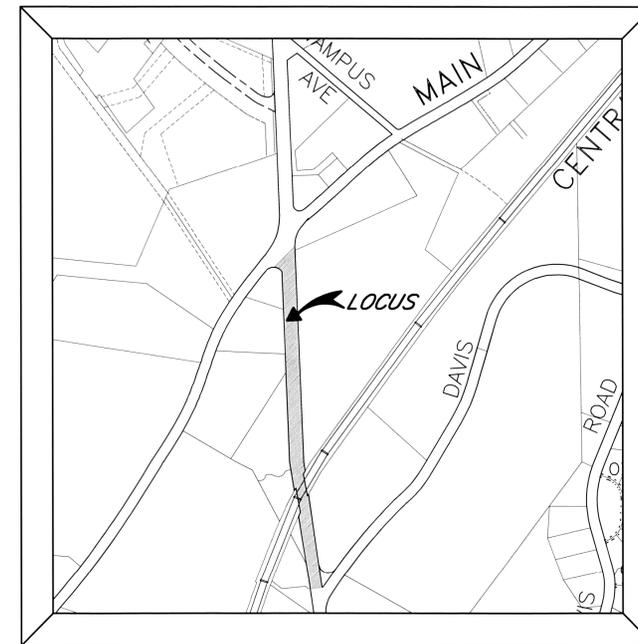


GREAT ROAD SIDEWALK FOR THE TOWN OF ACTON FROM MAIN STREET TO DAVIS ROAD ACTON, MASSACHUSETTS

DATE: FEBRUARY 5, 2014



LOCUS PLAN
SCALE: 1"=1200'



VICINITY MAP
SCALE: 1"=400'

RECORD OWNER:

THE TOWN OF ACTON
472 MAIN STREET
ACTON, MA 01720

INDEX

- SHEET C1 TITLE SHEET
- SHEET C2-C3 SIDEWALK PLAN
- SHEET C4 CONSTRUCTION DETAILS
- SHEET S1-S3 PEDESTRIAN BRIDGE (STRUCTURAL PLANS)

CIVIL ENGINEER/SURVEYOR

STAMSKI AND MCNARY, INC
1000 MAIN STREET
ACTON, MASSACHUSETTS 01720
(978) 263-8585



STRUCTURAL ENGINEER

JSL ENGINEERING, INC.
25 PICKEREL ROAD
WELLESLEY, MASSACHUSETTS 02482
(781) 416-1037

PROPOSED ABUTMENT
(SEE STRUCTURAL
DRAWINGS)

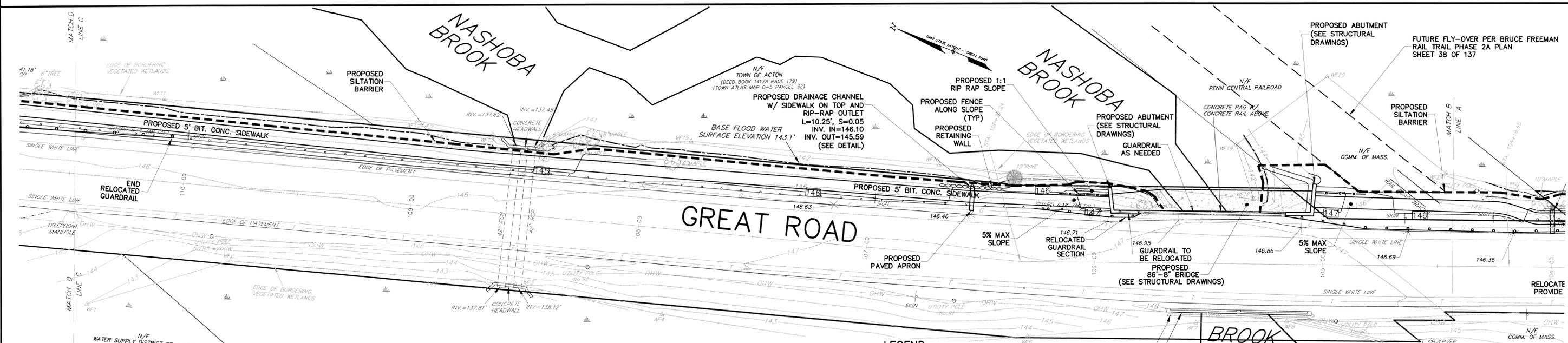
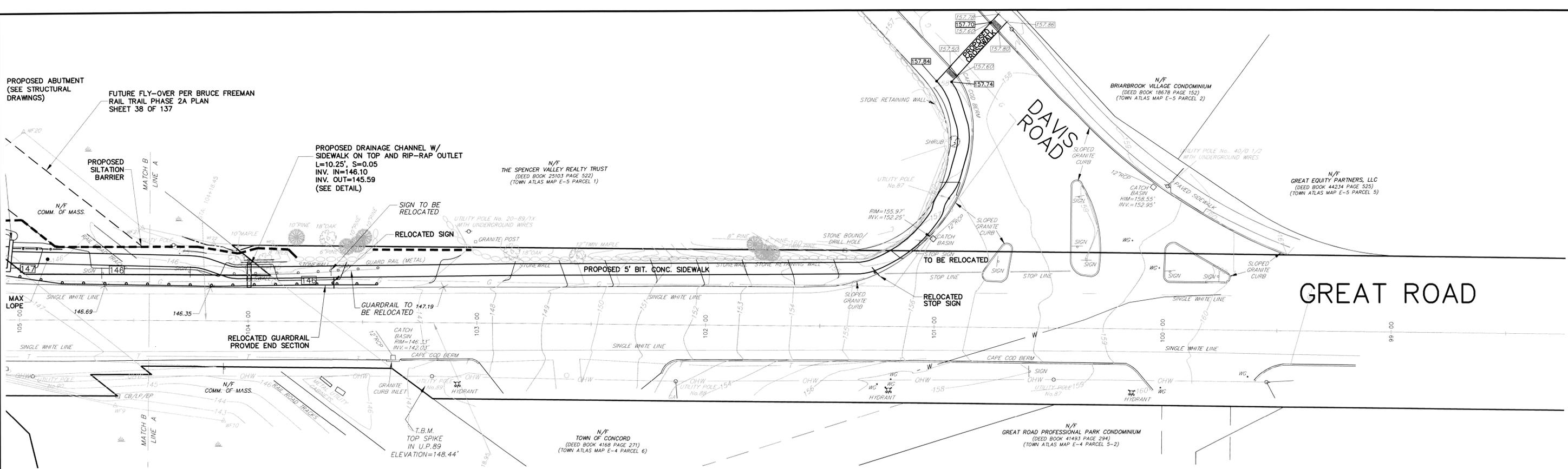
FUTURE FLY-OVER PER BRUCE FREEMAN
RAIL TRAIL PHASE 2A PLAN
SHEET 38 OF 137

PROPOSED DRAINAGE CHANNEL W/
SIDEWALK ON TOP AND RIP-RAP OUTLET
L=10.25', S=0.05
INV. IN=146.10
INV. OUT=145.59
(SEE DETAIL)

N/F
THE SPENCER VALLEY REALTY TRUST
(DEED BOOK 25103 PAGE 522)
(TOWN ATLAS MAP E-5 PARCEL 1)

N/F
BRIARBROOK VILLAGE CONDOMINIUM
(DEED BOOK 18678 PAGE 152)
(TOWN ATLAS MAP E-5 PARCEL 2)

N/F
GREAT EQUITY PARTNERS, LLC
(DEED BOOK 44234 PAGE 525)
(TOWN ATLAS MAP E-5 PARCEL 5)



NOTES:

- ALL UNDERGROUND UTILITIES SHOWN HERE WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS FROM VARIOUS UTILITY COMPANIES AND PUBLIC AGENCIES AND ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD BEFORE DESIGNING, EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAIRING. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN. SEE CHAPTER 370., ACTS OF 1963 MASS. WE ASSUME NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN. BEFORE PLANNING FUTURE CONNECTIONS, THE APPROPRIATE PUBLIC UTILITY ENGINEERING DEPARTMENT MUST BE CONSULTED. DIG SAFE TELE. NO. 1-888-344-7233.
- SEE CONSTRUCTION SPECIFICATIONS DATED FEBRUARY 5, 2014.

DATUM
ELEVATIONS SHOWN REFER TO NAVD OF 1988 - CONVERTED FROM NGVD OF 1929- BENCHMARK USED: DISC 79C (FEMA FLOOD STUDY REFERENCE MARK 31) MAGS DISC IN CONCRETE MONUMENT AT GRADE ABOUT 1.3 MILES NORTH OF EAST ACTON, ON THE WEST SIDE OF NYNH&H RAILROAD, 18.6 FEET WEST OF WEST RAIL, 293 FEET NORTH OF THE CENTER OF BROOK STREET. ELEVATION=145.52. BENCHMARK SET: SEE PLAN.

LEGEND:

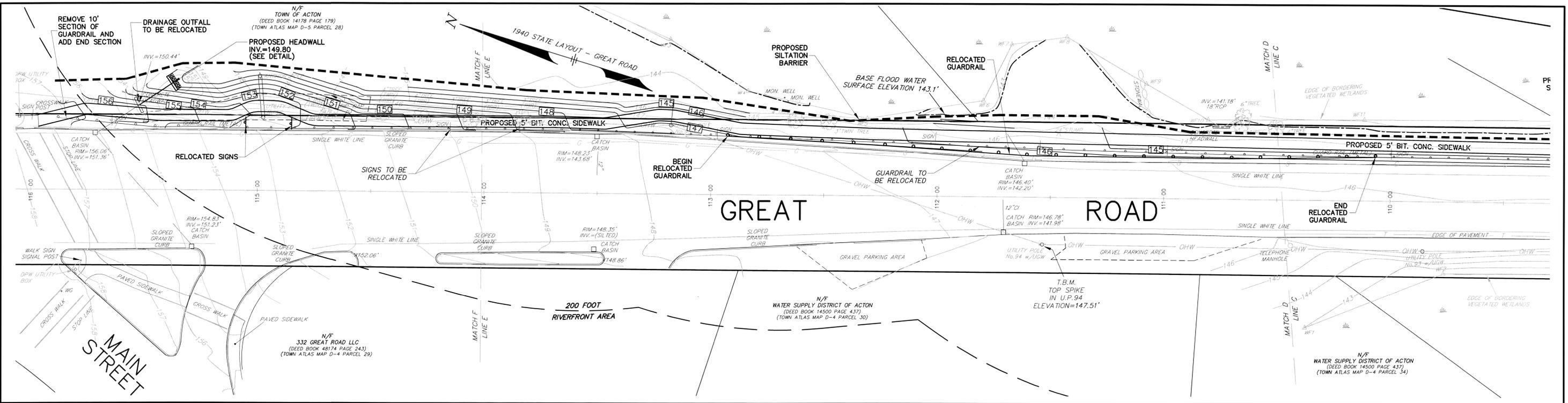
- N/F NOW OR FORMERLY WETLANDS FLAG
- MM MILE MARKER
- 12"O OAK TREE
- 12"MAP MAPLE TREE
- 12"BP BIRCH TREE
- 12"E ELM TREE
- 12"A ASH TREE
- 12"P PINE TREE
- WG WATER GATE
- UP UTILITY POLE
- TREE LINE
- W WATER SERVICE (APPROXIMATE)
- G GAS SERVICE (APPROXIMATE)
- T TELEPHONE SERVICE (APPROXIMATE)
- 180 EXISTING CONTOUR
- 101 EXISTING CONTOUR
- EDGE OF WETLANDS
- OHW OVERHEAD WIRES
- CONCRETE PAD W/ CONCRETE RAIL ABOVE

**SIDEWALK PLAN
IN
ACTON, MASSACHUSETTS
(MIDDLESEX COUNTY)**

FOR: **TOWN OF ACTON**
SCALE: 1"=20' FEBRUARY 5, 2014

STAMSKI AND MCNARY, INC.
1000 MAIN STREET - ACTON, MASSACHUSETTS
ENGINEERING - PLANNING - SURVEYING

(4753 Sidewalk-BRIDGE-4.dwg) Sheet C2 of C4 SM-4753



NOTES:

- 1) ALL UNDERGROUND UTILITIES SHOWN HERE WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS FROM VARIOUS UTILITY COMPANIES AND PUBLIC AGENCIES AND ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD BEFORE DESIGNING, EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAIRING. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN. SEE CHAPTER 370., ACTS OF 1963 MASS. WE ASSUME NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN. BEFORE PLANNING FUTURE CONNECTIONS, THE APPROPRIATE PUBLIC UTILITY ENGINEERING DEPARTMENT MUST BE CONSULTED. DIG SAFE TELE. NO. 1-888-344-7233.
- 2) SEE CONSTRUCTION SPECIFICATIONS DATED FEBRUARY 5, 2014.

LEGEND:

- N/F NOW OR FORMERLY
- WF 10 WETLANDS FLAG
- MM MILE MARKER
- 12"O OAK TREE
- 12" M MAPLE TREE
- 12" B BIRCH TREE
- 12" E ELM TREE
- 12" A ASH TREE
- 12" P PINE TREE
- WG WATER GATE
- UP UTILITY POLE
- TREE LINE
- W WATER SERVICE (APPROXIMATE)
- G GAS SERVICE (APPROXIMATE)
- T TELEPHONE SERVICE (APPROXIMATE)
- 180 EXISTING CONTOUR
- 181 EXISTING CONTOUR
- EDGE OF WETLANDS
- OHW OVERHEAD WIRES

DATUM

ELEVATIONS SHOWN REFER TO NAVD OF 1988 - CONVERTED FROM NGVD OF 1929-
 BENCHMARK USED: DISC 79C (FEMA FLOOD STUDY REFERENCE MARK 31) MAGS DISC IN CONCRETE MONUMENT AT GRADE ABOUT 1.3 MILES NORTH OF EAST ACTON, ON THE WEST SIDE OF NYNH&H RAILROAD, 18.6 FEET WEST OF WEST RAIL, 293 FEET NORTH OF THE CENTER OF BROOK STREET. ELEVATION=145.52.
 BENCHMARK SET: SEE PLAN.

<p>SIDEWALK PLAN IN ACTON, MASSACHUSETTS (MIDDLESEX COUNTY)</p>		
<p>FOR: TOWN OF ACTON SCALE: 1"=20' FEBRUARY 5, 2014</p>		
<p>STAMSKI AND McNARY, INC. 1000 MAIN STREET - ACTON, MASSACHUSETTS ENGINEERING - PLANNING - SURVEYING</p>		
<p>(4753 Sidewalk-BRIDGE-4.dwg) Sheet C3 of C4 SM-4753</p>		

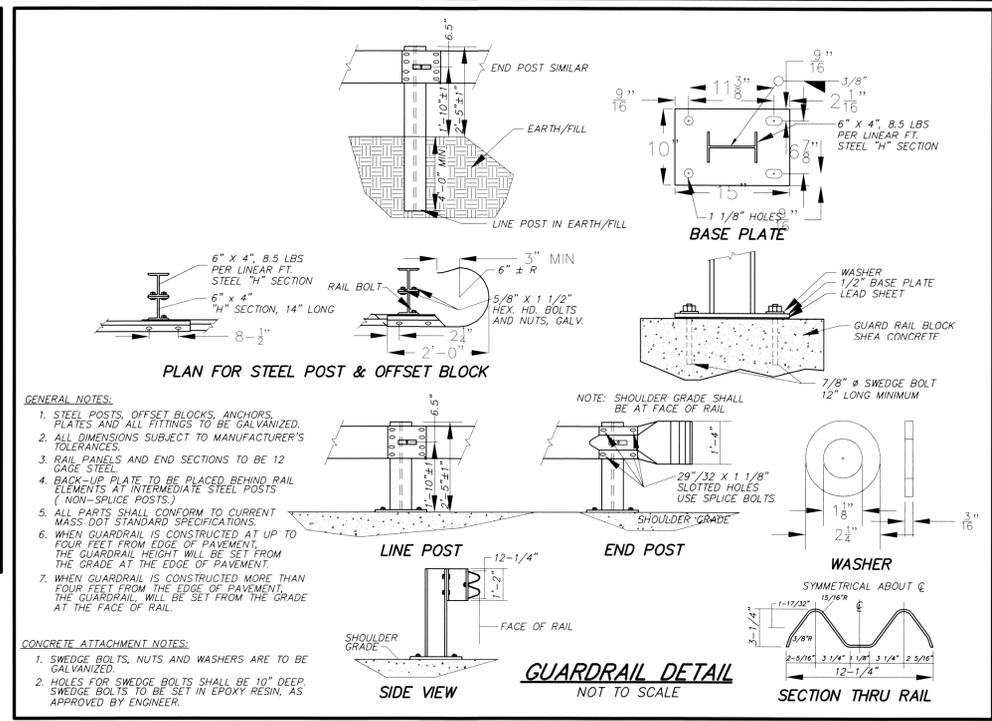
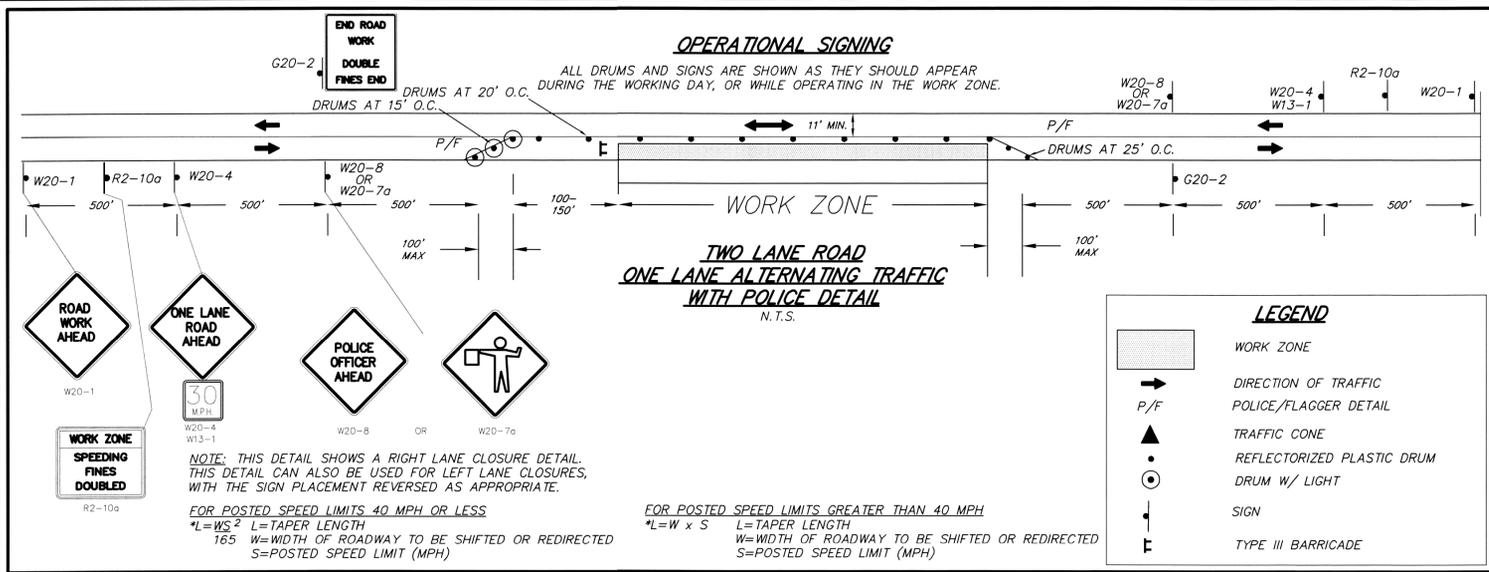


TABLE OF TRANSITION LENGTHS

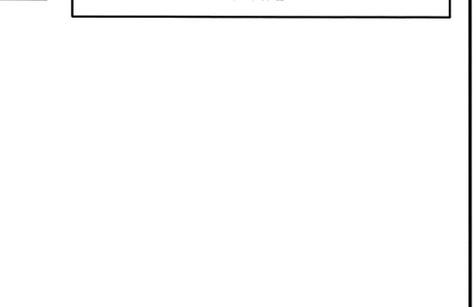
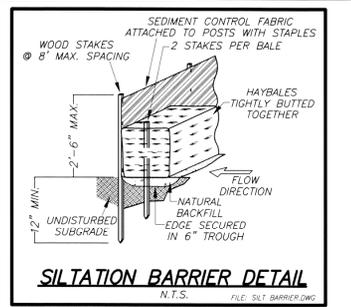
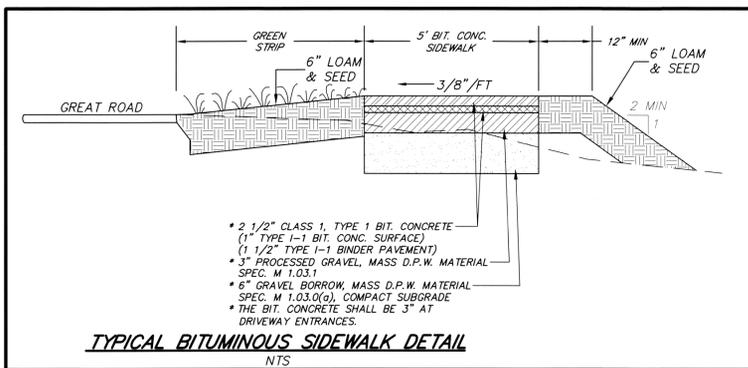
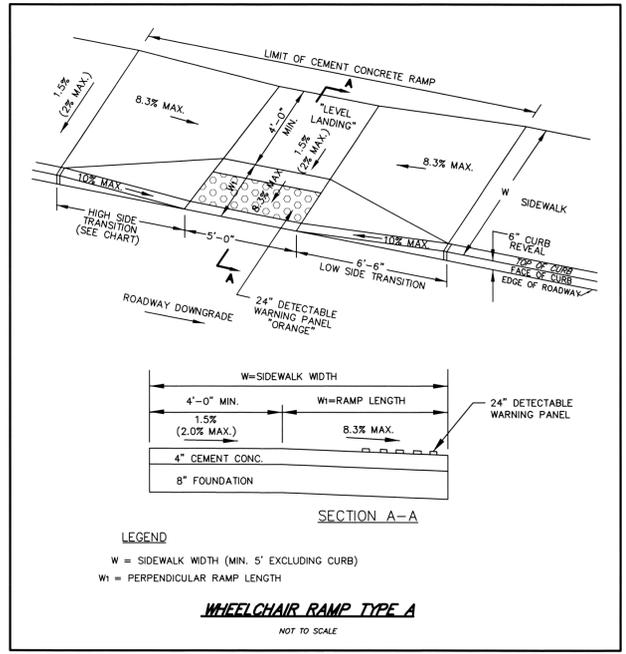
ROADWAY PROFILE GRADE (%)	HIGH SIDE TRANSITION LENGTH
0	6'-6"
>0-1	7'-8"
>1-2	9'-0"
>2-3	11'-0"
>3-4	14'-0"
>4	15'-0" (MAX.)

* BASED ON A DESIGN SLOPE OF 7.5% AND 6" OF CURB REVEAL

DETACHABLE WARNING PANEL AND WHEELCHAIR RAMP DETAIL
NOT TO SCALE

NOTE:
1. WARNING SURFACE SHALL CONTRAST VISUALLY WITH ORANGE COLOR ADJACENT WALKING SURFACES.

- ### EROSION AND SEDIMENTATION CONTROL NOTES
- THE LIMIT OF WORK LINE SHALL BE CLEARLY MARKED IN THE FIELD BY FIELD SURVEY PRIOR TO CONSTRUCTION WITHIN DESIGNATED AREA. LIMIT OF WORK LINE SHALL NOT EXCEED THE LINE SHOWN.
 - EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED FOR EACH PHASE PRIOR TO ANY CONSTRUCTION ON THE SITE. CONTRACTOR IS ENCOURAGED TO USE "FILTERMATT" IN LIEU OF HAYBALE/SILTATION BARRIER IF ACCEPTABLE TO THE TOWN OF ACTON CONSERVATION COMMISSION.
 - DURING DEVELOPMENT AND CONSTRUCTION, ADEQUATE PROTECTIVE MEASURES SHALL BE PROVIDED TO MINIMIZE DAMAGE FROM SURFACE WATER TO THE CUT FACE OF EXCAVATIONS OR THE SLOPING SURFACE OF FILLS.
 - LAND SHALL BE DEVELOPED IN INCREMENTS OF WORKABLE SIZE WHICH CAN BE COMPLETED DURING A SINGLE CONSTRUCTION SEASON. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE COORDINATED WITH THE SEQUENCE OF GRADING, DEVELOPMENT, AND CONSTRUCTION. OPERATIONS CONTROL MEASURES SUCH AS HYDROSEEDING, BERMS, INTERCEPTOR DITCHES, TERRACES, AND SEDIMENT TRAPS SHALL BE PUT INTO EFFECT PRIOR TO THE COMMENCEMENT OF EACH INCREMENT OF THE DEVELOPMENT/CONSTRUCTION PROCESS.
 - THE CONTRACTOR SHALL INSPECT AND REPAIR ALL EROSION CONTROL DEVICES, WHEN INTENSE RAINFALL IS PREDICTED. THE CONTRACTOR'S REPRESENTATIVE SHALL INSPECT THE CONSTRUCTION SITE AT LEAST EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 0.5 INCHES OR MORE. AREAS WITH SITES THAT HAVE BEEN FINALLY STABILIZED MUST BE INSPECTED AT LEAST ONCE A MONTH.
 - STOCK PILES SHALL BE SET BACK A MINIMUM OF 5 FEET FROM THE EDGE OF PAVEMENT. ALL STOCK PILES SHALL BE CONTAINED WITH SILT FENCES OR HAYBALES TO PREVENT EROSION FROM ENTERING THE STREET. DRAINAGE NPDES PERMITS REQUIRE THE STOCKPILES TO BE STABILIZED WITH SEED OR MULCH IF NOT BEING USED WITHIN 21 DAYS. SOIL STOCK PILES SHALL BE COVERED WITH TEMPORARY VEGETATION OR FASTENED WITH TARPULIN SHEETS. STOCKPILES SHALL AVOID ALL SOIL ABSORPTION AREAS.
 - ALL CATCH BASIN AND MANHOLE RIMS SHALL BE COVERED WITH SILTATION FABRIC DURING CONSTRUCTION. CATCH BASIN GRATES ARE TO BE SET AT BINDER GRADE UNTIL IT IS TIME TO APPLY THE PAVEMENT WEARING COURSE. SEE INLET PROTECTION DETAIL.
 - ALL CATCH BASIN SUMPS AND DRAINAGE BASINS SHALL BE CLEANED DURING AND FOLLOWING CONSTRUCTION. THEREAFTER REFER TO OPERATION AND MAINTENANCE PLAN.
 - SEDIMENT BASINS (DEBRIS, BASINS, DE-SILTING BASINS, OR SILT TRAPS) SHALL BE INSTALLED IN CONJUNCTION WITH THE INITIAL GRADING OPERATIONS AND MAINTAINED THROUGH THE DEVELOPMENT PROCESS TO REMOVE SEDIMENT FROM RUNOFF WATERS DRAINING FROM LAND UNDERGOING DEVELOPMENT. SEDIMENT BASINS SHALL BE INSTALLED OUTSIDE OF INFILTRATION PORTION OF INFILTRATION BASINS AND PROPOSED SEPTIC LEACHING AREAS.
 - THE DEVELOPER IS REQUIRED TO CLEAN UP ANY SAND, DIRT, OR DEBRIS WHICH ERODES FROM THE SITE ONTO ANY PUBLIC STREET OR PRIVATE PROPERTY, AND TO REMOVE SILT OR DEBRIS THAT ENTERS ANY EXISTING DRAINAGE SYSTEM INCLUDING CATCH BASIN SUMPS, PIPE LINES, MANHOLES AND DITCHES.
 - ALL CUT AND FILL SLOPES SHALL BE IMMEDIATELY COVERED WITH 6" LOAM AND SEEDING DURING THE GROWING SEASON (APRIL 1 TO NOVEMBER 1) OR COVERED WITH A HAY MULCH DURING THE NON-GROWING SEASON (NOVEMBER 1 TO APRIL 1). IN AREAS SUBJECT TO THE WETLANDS PROTECTION ACT, THE HAY MULCH AND/OR REQUIRED MEASURES SHALL REMAIN IN PLACE UNTIL PERMANENT VEGETATION IS RE-ESTABLISHED.
 - DISTURBED AREAS WHERE CONSTRUCTION HAS PERMANENTLY OR TEMPORARILY CEASED MUST BE STABILIZED WITHIN 14 DAYS OF THE LAST DISTURBANCE. AREAS WHICH WILL BE REDISTURBED WITHIN 21 DAYS DO NOT HAVE TO BE STABILIZED.
 - ADDITIONAL EROSION CONTROL MEASURES SHALL BE STOCK-PILED ON-SITE, INCLUDING BUT NOT LIMITED TO CRUSHED STONE, HAY BALES, SILT FENCE AND EROSION CONTROL MATS.
 - THE SEDIMENT SHALL BE REMOVED BEHIND ALL HAY BALES AND SILT FENCES IF DEPTH EXCEEDS 6". SEDIMENT SHALL BE REMOVED TO OUTSIDE THE BUFFER ZONE OF THE WETLANDS WHERE APPLICABLE.
 - THE EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL ALL TRIBUTARY SURFACES ARE STABILIZED.
 - REMOVAL OF EXISTING VEGETATION SHALL BE WITHIN THE LIMIT OF WORK AREA.
 - ALL EXCESS SOIL SHALL REMAIN ON-SITE IN AREAS TO BE DESIGNATED BY THE OWNER.



Advanced Aquaduck Systems

Rectangular Underwalk Drainage Pipes - 5' long

Material Description	Dimensions				Material Thickness
	A	B	C	D	
AAP-5-35P Rectangular Underwalk Drainage Pipe	3"	5"	5"	3"	1/8"
AAP-5-36P Rectangular Underwalk Drainage Pipe	3"	9"	5"	3"	3/16"
AAP-5-37P Rectangular Underwalk Drainage Pipe	3"	12"	5"	3"	3/16"
AAP-5-377P Rectangular Underwalk Drainage Pipe	3"	17"	5"	3"	3/16"
AAP-5-414P Rectangular Underwalk Drainage Pipe	4"	14"	5"	3"	3/16"
AAP-5-420P Rectangular Underwalk Drainage Pipe	4"	20"	5"	3"	3/16"

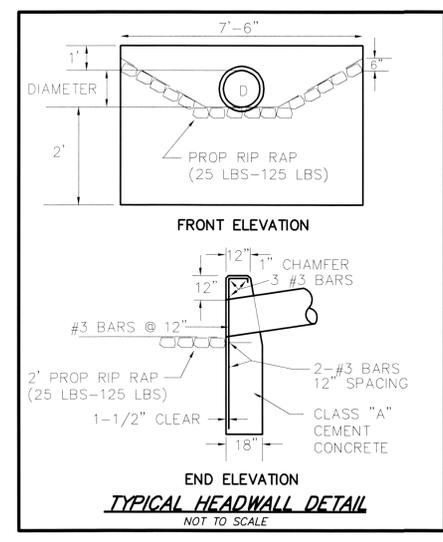
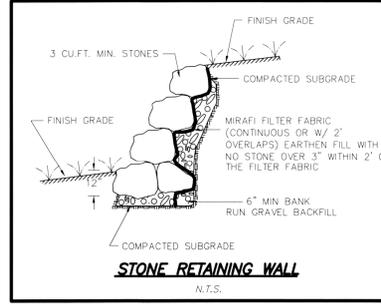
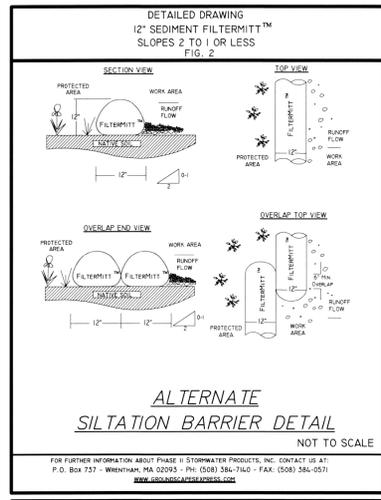
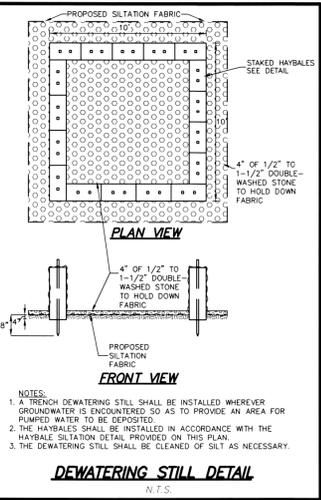
ENGINEERING DATA: Advanced Aquaduck corrugated, welded, hot-dip galvanized steel pipe and fittings are produced in accordance with mechanical and chemical property requirements of ASTM specification A500 grade "B". Tensile strength minimum: 58,000 psi; Yield Point minimum: 46,000 psi.

COATING: Actual finished with uniform zinc coating with ASTM D-1227-87 Type II and ASTM D-1187-80 Type I.

METHOD OF CONNECTION: Rectangle to rectangle connections: lead and caulk, lead wool, epoxy bonding method, or other approved method. Cast iron or plastic pipe connection shall use cast iron or plastic to steel, non-rub style couplings.

NOTE: PART AAP-5-420P TO BE USED UNLESS OTHERWISE SPECIFIED.

DRAINAGE CHANNEL DETAIL
NOT TO SCALE



**CONSTRUCTION DETAILS
IN
ACTON, MASSACHUSETTS
(MIDDLESEX COUNTY)**

**CONSTRUCTION DETAILS
FOR:
TOWN OF ACTON
SCALE: 1"=20' FEBRUARY 5, 2014**

STAMSKI AND MCNARY, INC.
1000 MAIN STREET - ACTON, MASSACHUSETTS
ENGINEERING - PLANNING - SURVEYING

(4753 Sidewalk-BRIDGE-4.dwg) Sheet C4 of C4 SM-4753

