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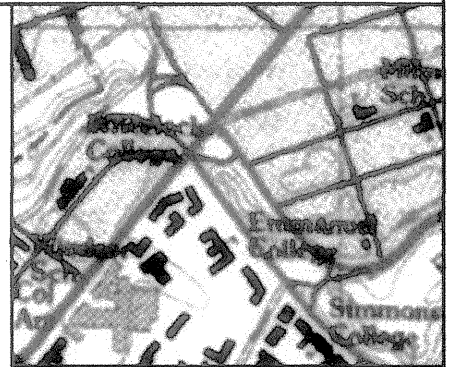
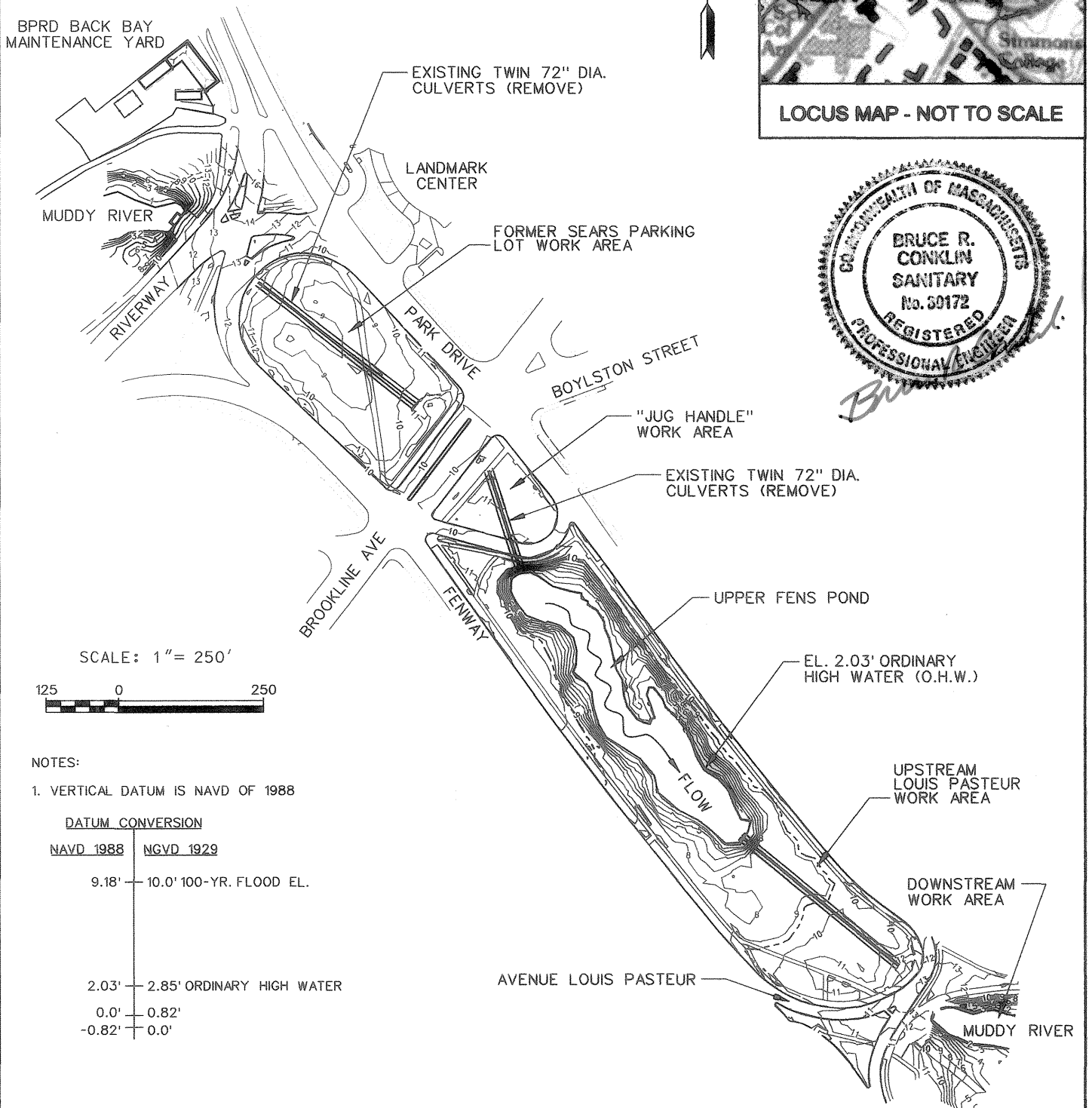
I CERTIFY THAT THIS PLAN, AS PREPARED,  
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 THE REGISTERS OF DEEDS.

2011-297

*Bruce R. Conklin*  
 SIGNATURE

2/24/11  
 DATE

BPRD BACK BAY  
 MAINTENANCE YARD



LOCUS MAP - NOT TO SCALE



PLANS ACCOMPANYING PETITION OF BOSTON PARKS  
 AND RECREATION DEPARTMENT, AND THE MASSACHUSETTS  
 DEPARTMENT OF CONSERVATION AND RECREATION ON  
 BEHALF OF THE U.S. ARMY CORPS OF ENGINEERS TO  
 CONSTRUCT AND MAINTAIN THE MUDDY RIVER FLOOD DAMAGE  
 AND ENVIRONMENTAL RESTORATION PROJECT - PHASE 1,  
 IN AND ALONG THE MUDDY RIVER IN BOSTON, SUFFOLK  
 COUNTY, MASSACHUSETTS.

FEBRUARY 24, 2011

PROJECT DESIGNED  
 BY THE U.S. ARMY  
 CORPS OF ENGINEERS.

EXISTING CONDITIONS  
 SHEET 1 OF 16 SHEETS

LICENSE PLAN NO. 13099

Approved by Department of Environmental Protection  
 of Massachusetts

JUL 18 2011

*Conklin*

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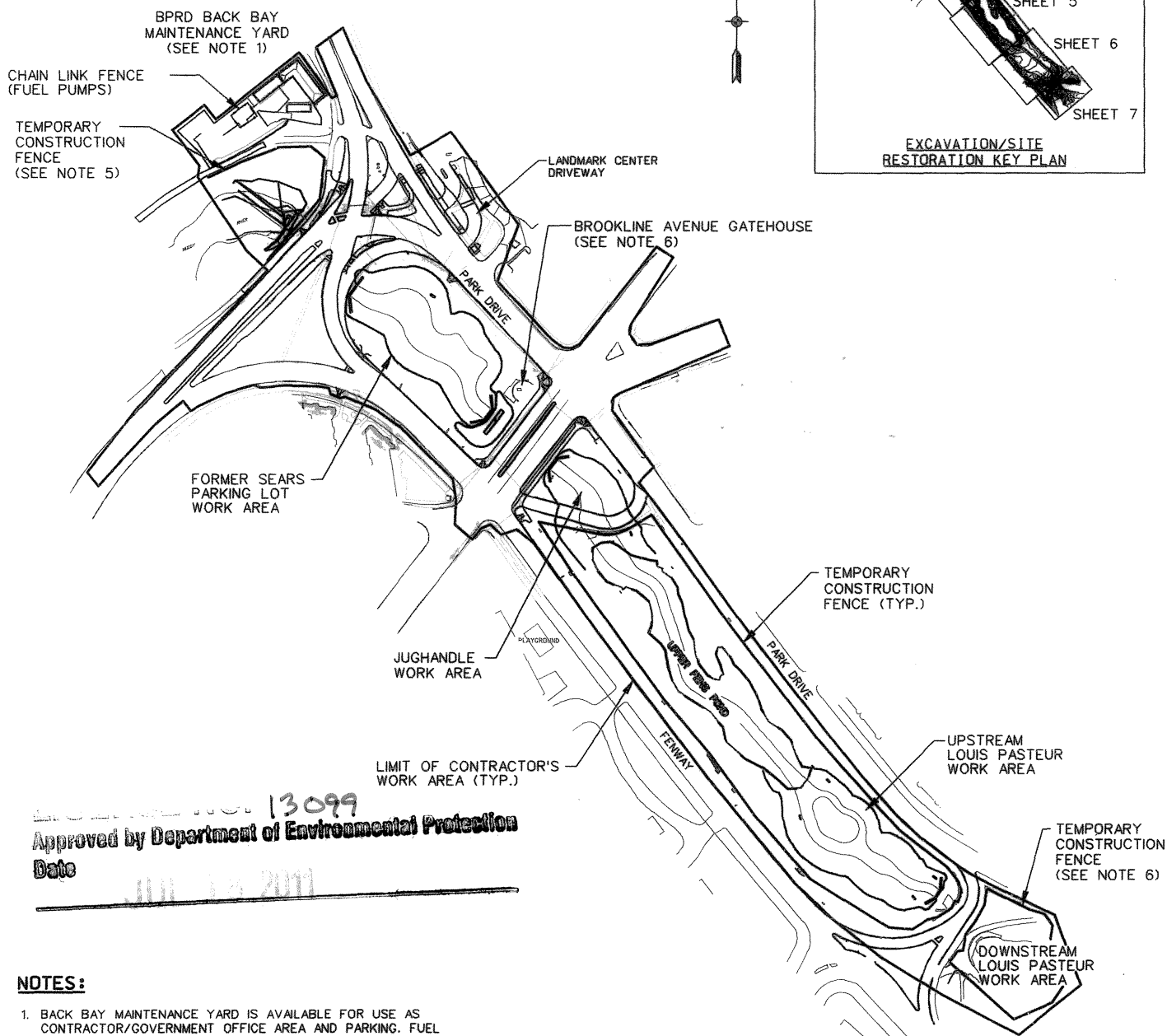
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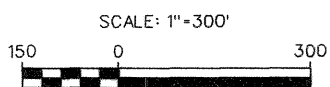
DATE



13099  
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Date

**NOTES:**

1. BACK BAY MAINTENANCE YARD IS AVAILABLE FOR USE AS CONTRACTOR/GOVERNMENT OFFICE AREA AND PARKING. FUEL PUMP AREA IS OFF LIMITS AND SHALL BE FENCED OFF BY THE CONTRACTOR PRIOR TO USE OF THE YARD. A LIMITED AMOUNT OF MATERIAL STAGING/STORAGE MAY BE ALLOWED AT THIS AREA AT THE DISCRETION OF THE CONTRACTING OFFICER.
2. LIMIT OF CONTRACTOR'S WORK AREA AS SHOWN INCLUDES AREA REQUIRED FOR ROADWAY RESTRIPING.
3. EXCAVATION/SITE RESTORATION KEY PLAN REFERS TO AREA OF FLOOD DAMAGE REDUCTION AND ENVIRONMENTAL RESTORATION FEATURES.
4. TEMPORARY CONSTRUCTION FENCE IS NOT SHOWN IN THE RIVERWAY/BROOKLINE AVE/JUGHANDLE AREA. THE LOCATION OF THE FENCE IN THOSE AREAS WILL BE DICTATED BY ROADWAY CONSTRUCTION AND TRAFFIC MANAGEMENT SEQUENCING.
5. TEMPORARY CONSTRUCTION FENCE UPSTREAM OF THE RIVERWAY AND DOWNSTREAM OF AVENUE LOUIS PASTEUR SHALL BE BROUGHT TO THE WATER'S EDGE.
6. ACCESS TO THE BROOKLINE AVENUE GATEHOUSE BY BOSTON WATER AND SEWER COMMISSION PERSONNEL SHALL BE MAINTAINED AT ALL TIMES.
7. ABBREVIATIONS: TRM - TURF REINFORCEMENT MAT  
ACB - ARTICULATED CONCRETE BLOCK  
ACM - ARTICULATED CONCRETE MATTRESS



GENERAL SITE PLAN  
SHEET 2 OF 16 SHEETS

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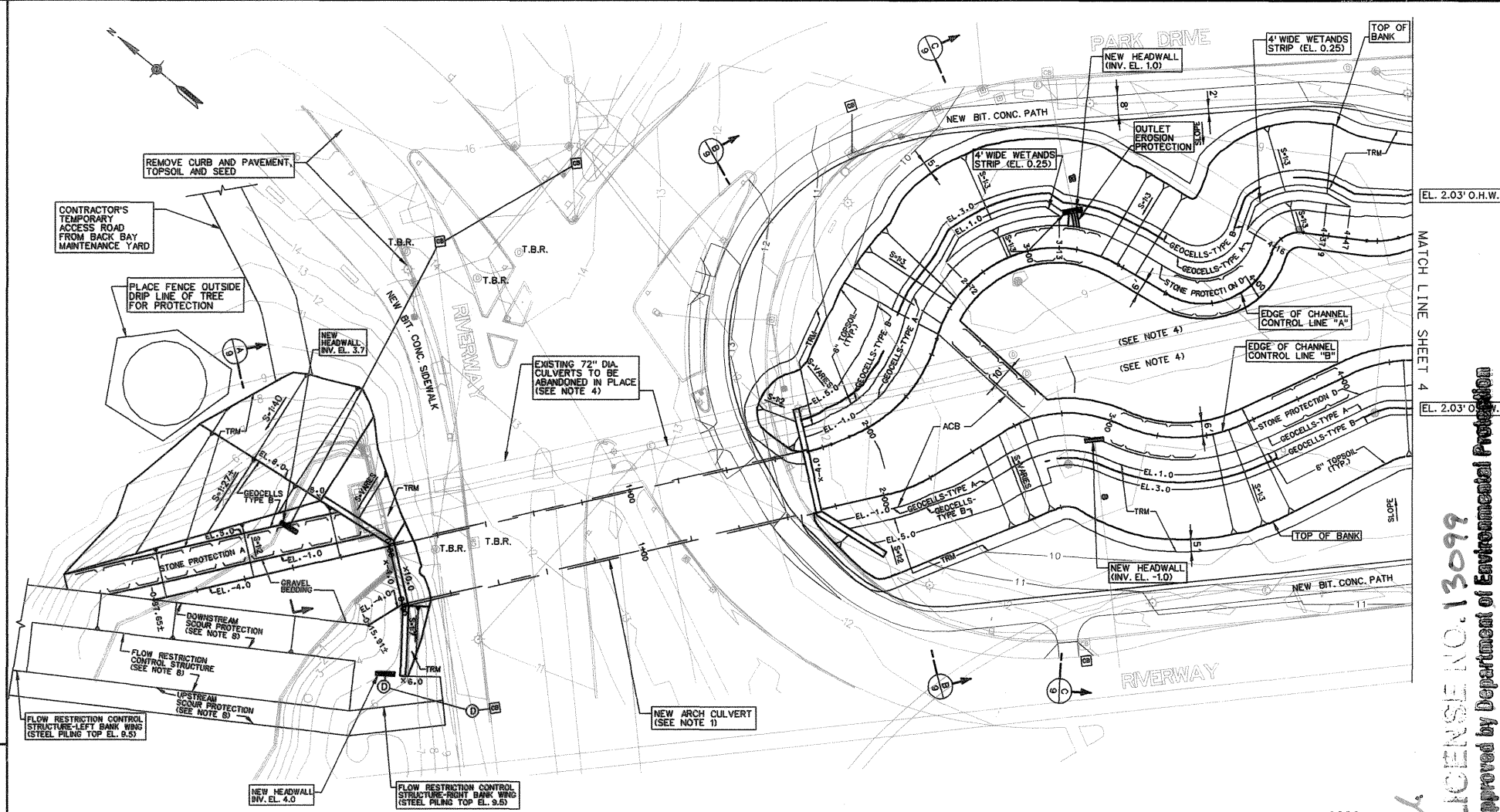
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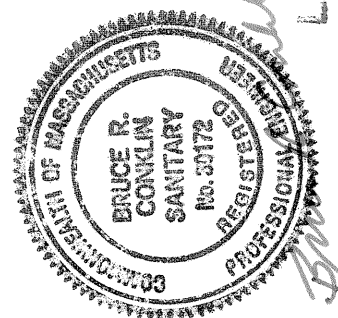
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**NOTES:**

1. SEE SHEETS 12 OF 16 AND 13 OF 16 FOR ELEVATION VIEWS OF THE NEW RIVERWAY CULVERT.
2. GEOCELL SHALL BE FILLED AND COVERED WITH AN ADDITIONAL 6 INCHES OF TOPSOIL AND SEEDED. TURF REINFORCEMENT MAT SHALL BE PLACED OVER GEOCELL AREAS. GEOCELL UPSLOPE OF ACB SHALL EXTEND TO EL. 5.0. GEOCELL IN ALL OTHER AREAS SHALL EXTEND TO EL. 3.0, EXCEPT UPSTREAM OF THE RIVERWAY WHERE GEOCELL SHALL EXTEND FROM EL. 5.0 TO EL. 8.0.
3. EXISTING ROADS, SIDEWALKS, STORM DRAINAGE STRUCTURES, TRAFFIC ISLANDS, CURBING, GRASS AREAS AT THE RIVERWAY INTERSECTION ARE TO BE RECONSTRUCTED TO NEW CONFIGURATION AS SHOWN ON ROADWAY PLANS, SHEETS CP-101 TO CP-110.
4. EXISTING 72" DIA. CULVERTS SHALL BE REMOVED IN THE DAYLIGHTING AREA AND AS NECESSARY TO CONSTRUCT THE NEW ARCH CULVERT WINGWALLS. PORTIONS OF EXISTING CULVERTS BENEATH RIVERWAY DRIVE SHALL BE ABANDONED IN PLACE WITH ENDS SEALED AND CULVERTS FILLED WITH CONCRETE SLURRY.
5. NEW STORM DRAIN HEADWALL LOCATIONS AND INVERT ELEVATIONS SHOWN ON THE PLANS ARE ESTIMATED. THE EXACT LOCATION AND INVERT ELEVATION OF EACH HEADWALL SHALL BE DETERMINED IN THE FIELD. EROSION PROTECTION IS REQUIRED ON GEOCELLS AT HEADWALL DAYLIGHT SECTIONS.
6. TURF REINFORCEMENT MAT SHALL EXTEND 5 FEET BEYOND TOP OF SLOPE TO ANCHOR IN EXISTING SOIL.
7. THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING UTILITIES IN THE VICINITY OF NEW STORM DRAINS.
8. THE LOCATION SHOWN FOR THE FLOW RESTRICTION CONTROL STRUCTURE IS ONLY AN APPROXIMATION. THE FLOW RESTRICTION CONTROL STRUCTURE AND ASSOCIATED CONSTRUCTION SHALL BE LOCATED ENTIRELY OUTSIDE THE SEWER LINE RIGHT OF WAY. THE EXACT LOCATION, DESIGN, AND CONSTRUCTION OF THE STRUCTURE AND ASSOCIATED SCOUR PROTECTION ARE THE RESPONSIBILITY OF THE CONTRACTOR.

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GRAPHIC SCALE



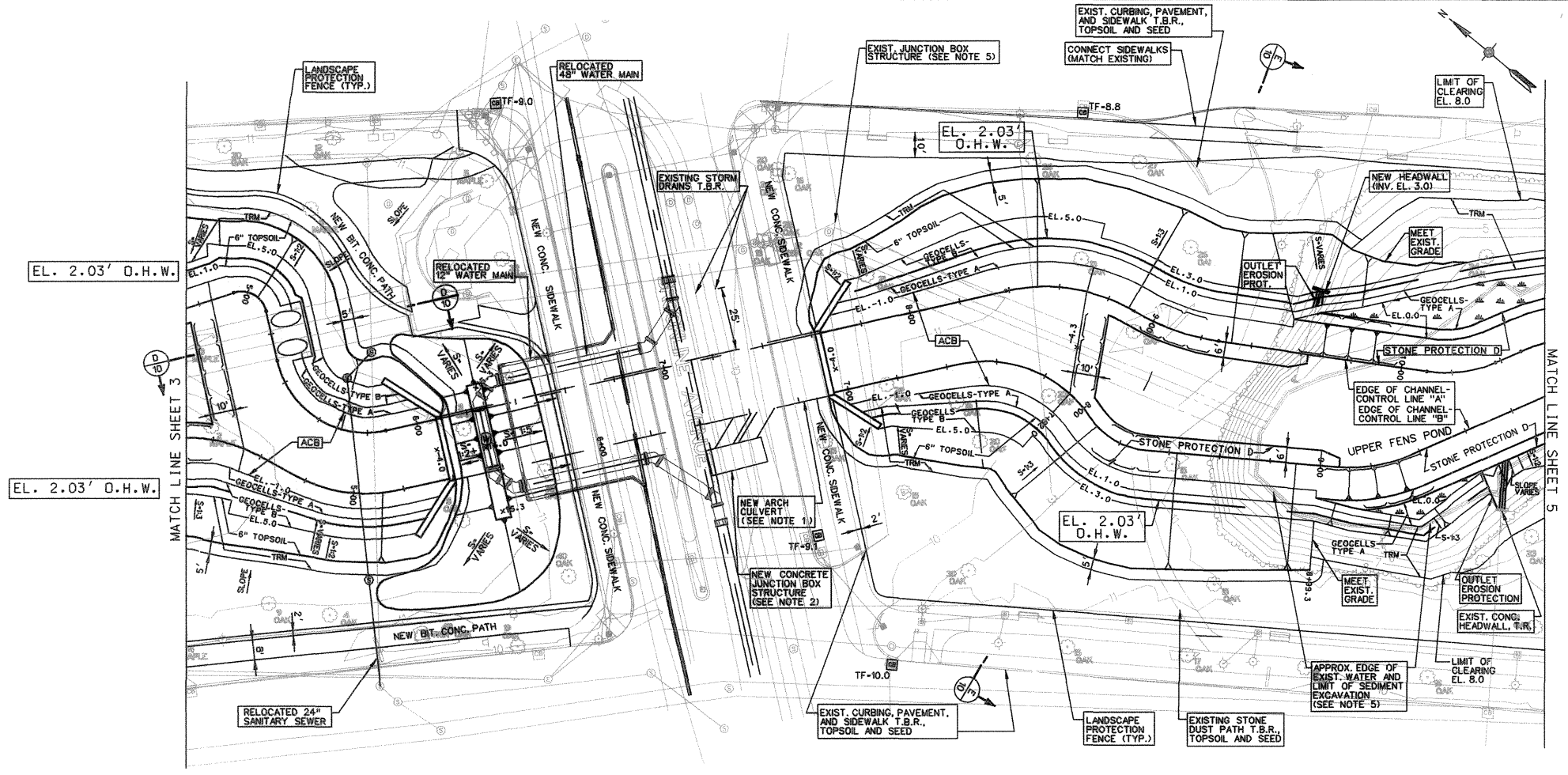
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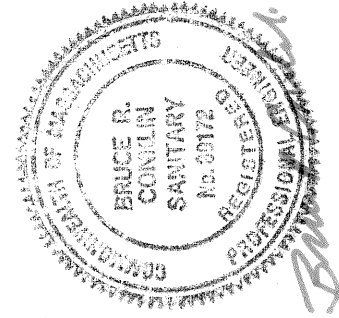
2011-297



**NOTES:**

1. SEE SHEETS 14 OF 16 AND 15 OF 16 FOR ELEVATIONS OF THE NEW BROOKLINE AVENUE CULVERT.
2. NEW JUNCTION BOX CONNECTS EXISTING 45" DIA. AND 51" X 51" STORM DRAIN LINES TO BROOKLINE AVE. CULVERT THROUGH TWO PIPES. EXISTING DRAIN LINES ARE TO BE ABANDONED NORTH OF NEW JUNCTION BOX.
3. GEOCELL SHALL BE FILLED WITH TOPSOIL AND SEEDED. GEOCELL UPSLOPE OF ACB SHALL EXTEND TO EL. 5.0. GEOCELL IN ALL OTHER AREAS SHALL EXTEND TO EL. 3.0.
4. EXISTING ROADS, SIDEWALKS, TRAFFIC ISLANDS, CURBING, GRASS AREAS ARE TO BE RECONSTRUCTED TO NEW CONFIGURATION AS SHOWN ON ROADWAY PLANS.
5. EXISTING JUNCTION BOX STRUCTURE AND 72" DIA. CULVERTS SHALL BE REMOVED TO THE EXTENT NECESSARY TO CONSTRUCT NORTH WING WALL AT DOWNSTREAM END OF BROOKLINE AVENUE CULVERT. OPENING TO EXISTING 84" X 108" CULVERT SHALL BE PERMANENTLY BLOCKED WITHIN EXISTING UNDERGROUND GATEHOUSE STRUCTURE.
6. FOR NEW STORM DRAIN HEADWALLS IN DAYLIGHTING AREA. LOCATIONS AND INVERT ELEVATIONS SHOWN ON THE PLANS ARE ESTIMATED. THE EXACT LOCATION AND INVERT OF EACH HEADWALL SHALL BE DETERMINED IN THE FIELD. EROSION PROTECTION IS REQUIRED ON GEOCELLS AT HEADWALLS IN DAYLIGHT SECTIONS.
7. TURF REINFORCEMENT MAT SHALL EXTEND 5 FEET BEYOND TOP OF EXCAVATED SLOPES TO ANCHOR IN EXISTING SOIL. WHERE UPPER SLOPE IS CLEARED ONLY (UPPER FENS POND) MAT SHALL EXTEND TO LIMIT OF CLEARING (EL. 8.0).
8. SEDIMENT EXCAVATION IN UPPER FENS POND CONSISTS OF REMOVAL OF UPPER 2 FEET OF SEDIMENT WITHIN POND TO WATER'S EDGE AT NORMAL WATER SURFACE ELEVATION.

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SITE PLAN NO. 2  
 SHEET 4 OF 16 SHEETS

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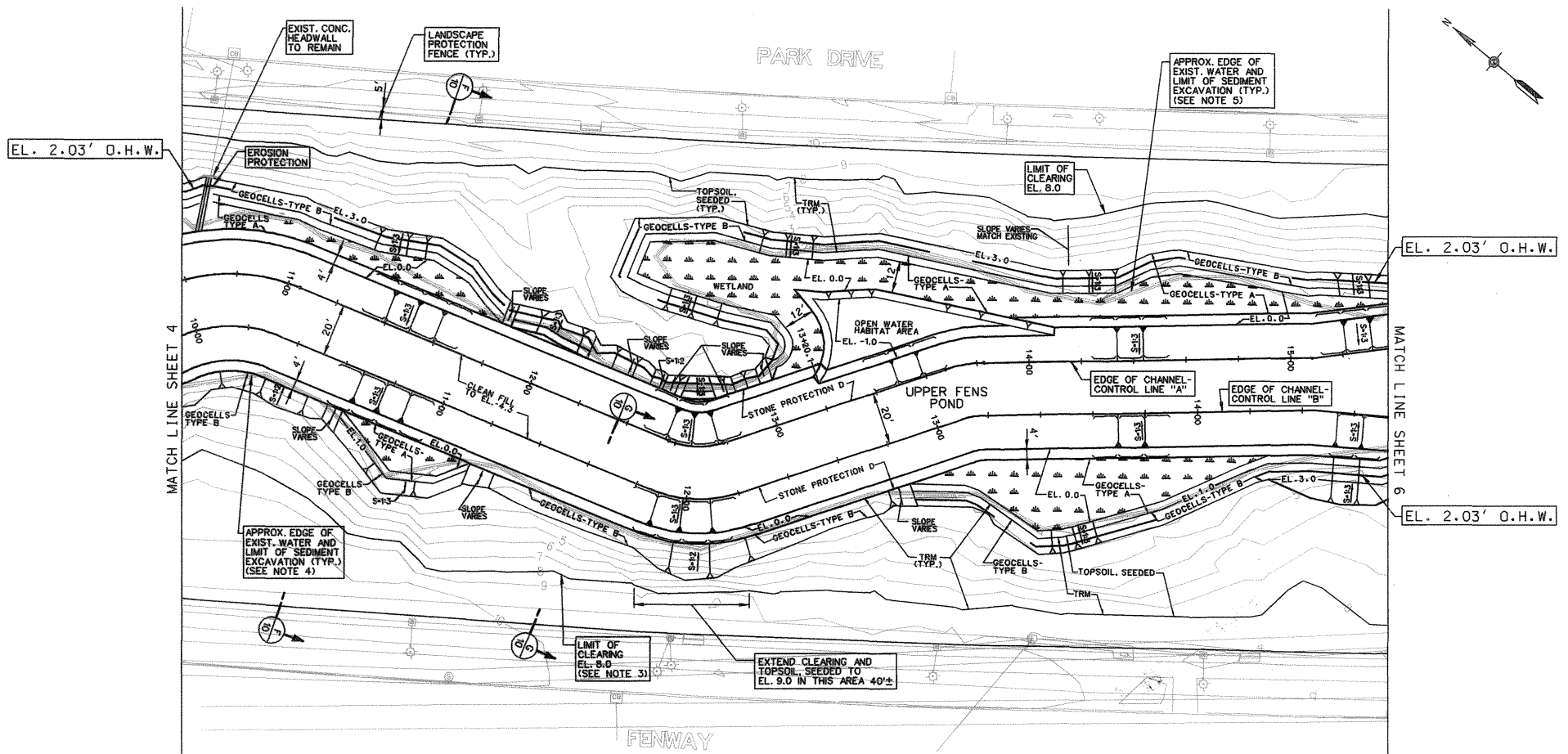
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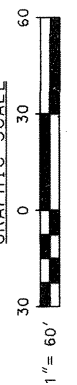
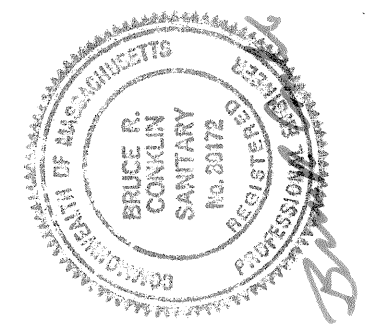


**NOTES:**

1. GEOCELL SHALL BE FILLED WITH TOPSOIL AND SEED.
2. WHERE UPPER SLOPE IS CLEARED ONLY (UPPER FENS POND) TURF REINFORCEMENT MAT SHALL EXTEND TO LIMIT OF CLEARING (EL. 8.0).
3. CLEARING ABOVE EL. 3.0 WITHIN THE UPPER FENS POND AREA SHALL BE SELECTIVE IN NATURE AS INDICATED ON THE LANDSCAPING PLAN AND PER DIRECTION IN THE FIELD BY THE CONTRACTING OFFICER'S REPRESENTATIVE.
4. SEDIMENT EXCAVATION IN UPPER FENS POND CONSISTS OF REMOVAL OF UPPER 2 FEET OF SEDIMENT WITHIN POND TO WATER'S EDGE AT NORMAL WATER SURFACE ELEVATION.
5. EROSION PROTECTION IS REQUIRED ON GEOCELLS AT EXISTING STORM DRAIN HEADWALLS IN DAYLIGHT SECTIONS.

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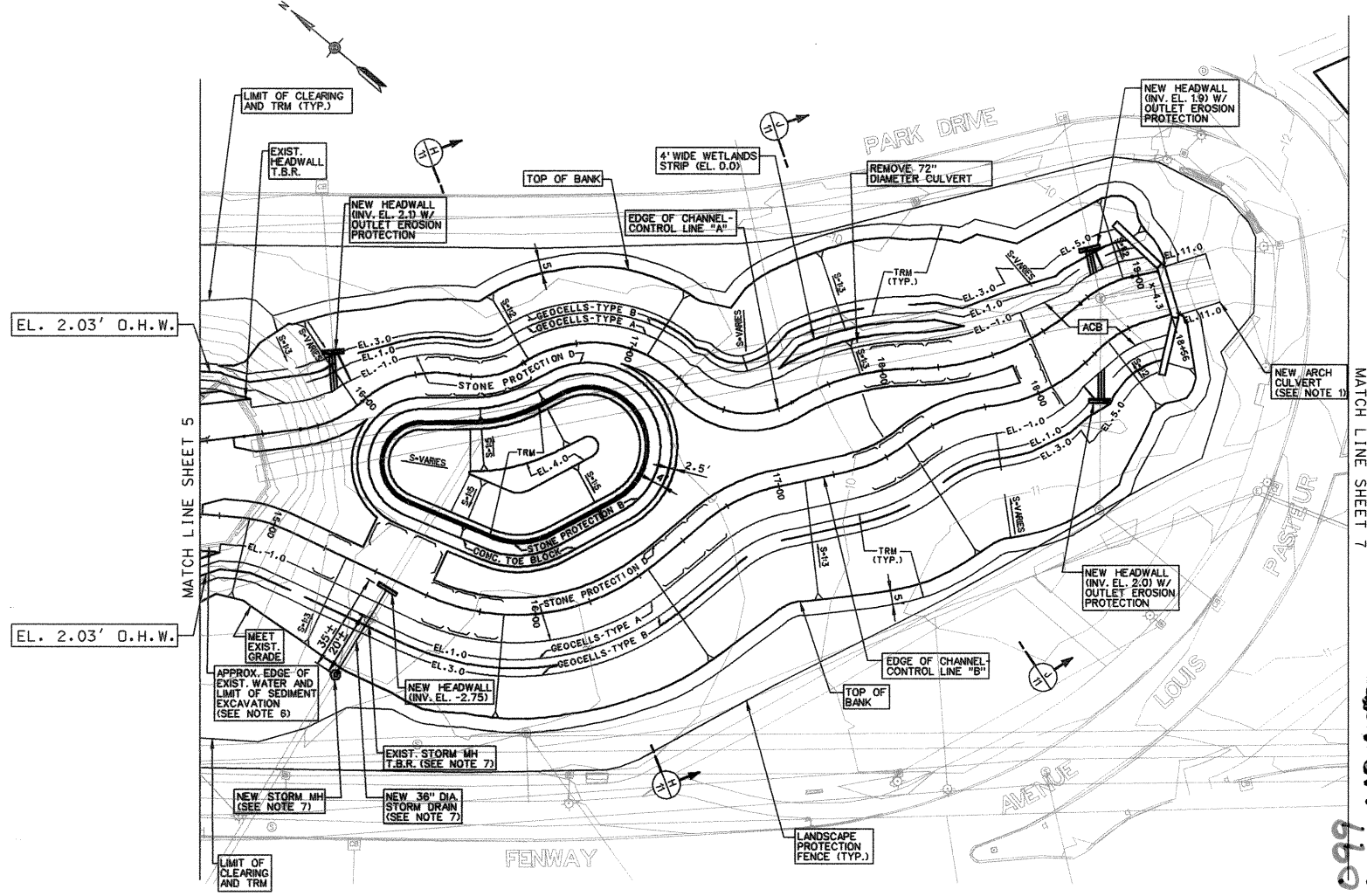
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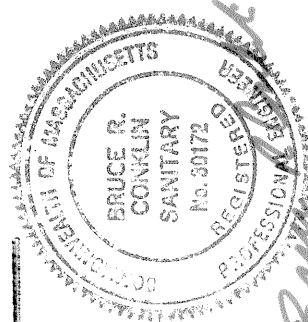
**NOTES:**

1. SEE SHEET 8 OF 16 FOR PLAN AT AVENUE LOUIS PASTEUR.
2. NEW STORM DRAIN HEADWALLS IN DAYLIGHTING AREA LOCATIONS AND INVERT ELEVATIONS SHOWN ON THE PLANS ARE ESTIMATED. THE EXACT LOCATION AND INVERT ELEVATION OF EACH HEADWALL SHALL BE DETERMINED IN THE FIELD. EROSION PROTECTION IS REQUIRED AT HEADWALLS WHICH DAYLIGHT ON GEOCELLS OR TRM.
3. GEOCELL SHALL BE FILLED WITH TOPSOIL AND SEEDED. GEOCELL UPSLOPE OF ACB SHALL EXTEND TO EL. 5.0. GEOCELL IN ALL OTHER AREAS SHALL EXTEND TO EL. 3.0.
4. TURF REINFORCEMENT MAT SHALL EXTEND 5 FEET BEYOND TOP OF SLOPE TO ANCHOR IN EXISTING SOIL EXCEPT WHERE UPPER SLOPE IS CLEARED ONLY (UPPER FENS POND) WHERE TRM SHALL EXTEND TO THE LIMIT OF CLEARING (EL. 8.0).
5. EXISTING 72" DIA. CULVERTS SHALL BE REMOVED IN THE DAYLIGHTING AREA INCLUDING AT THE ATTACHMENT TO THE FACE OF THE EXISTING JUNCTION BOX AT AVENUE LOUIS PASTEUR.
6. SEDIMENT EXCAVATION IN UPPER FENS POND CONSISTS OF REMOVAL OF UPPER 2 FEET OF SEDIMENT WITHIN POND TO WATER'S EDGE AT NORMAL WATER SURFACE ELEVATION.
7. EXISTING STORM MANHOLE SHALL BE REMOVED AND REPLACED BY A MANHOLE AT THE LOCATION SHOWN. THE EXISTING 30"X 30" STORM DRAIN SHALL BE TIED INTO THE NEW MANHOLE AND A NEW 36" DIA. STORM DRAIN SHALL REPLACE THE EXISTING 30"X 30" STORM DRAIN TO BE REMOVED.

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GRAPHIC SCALE

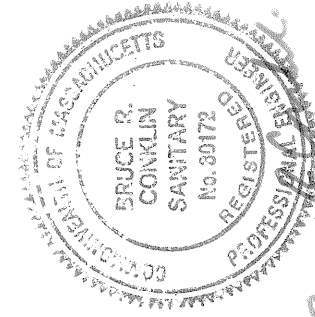


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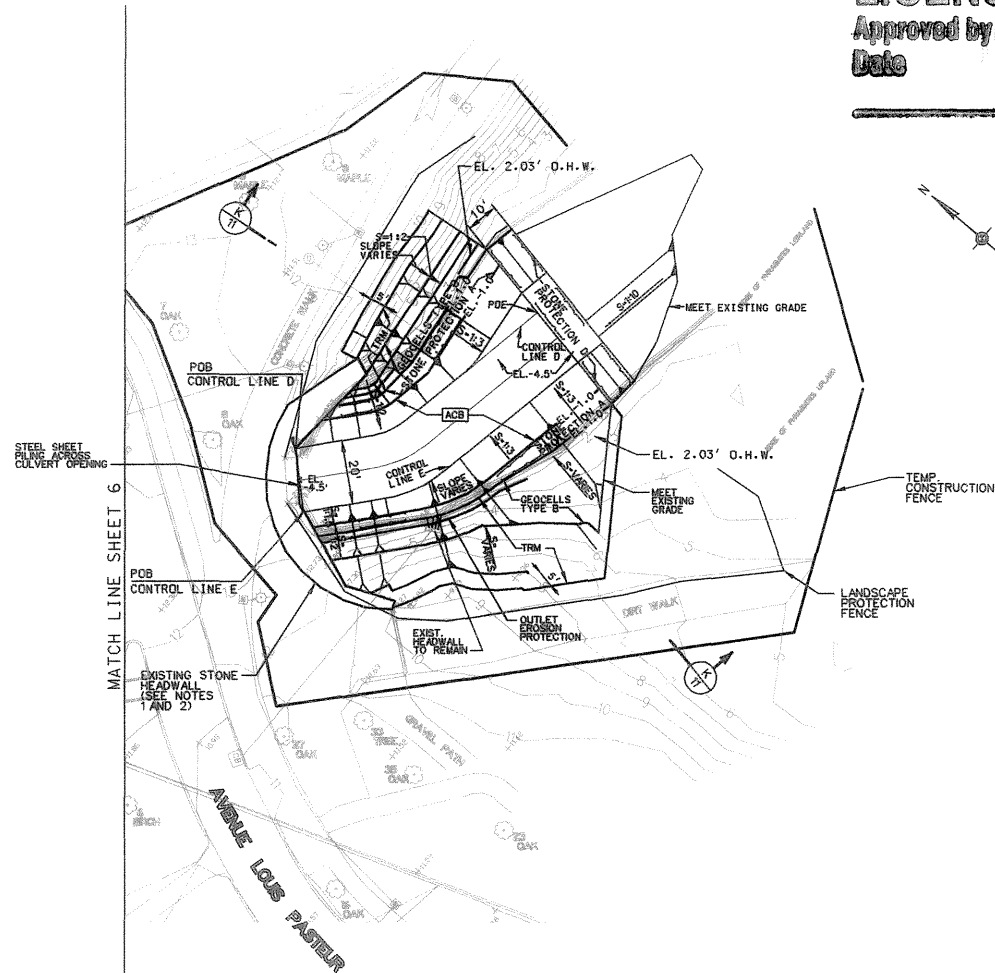
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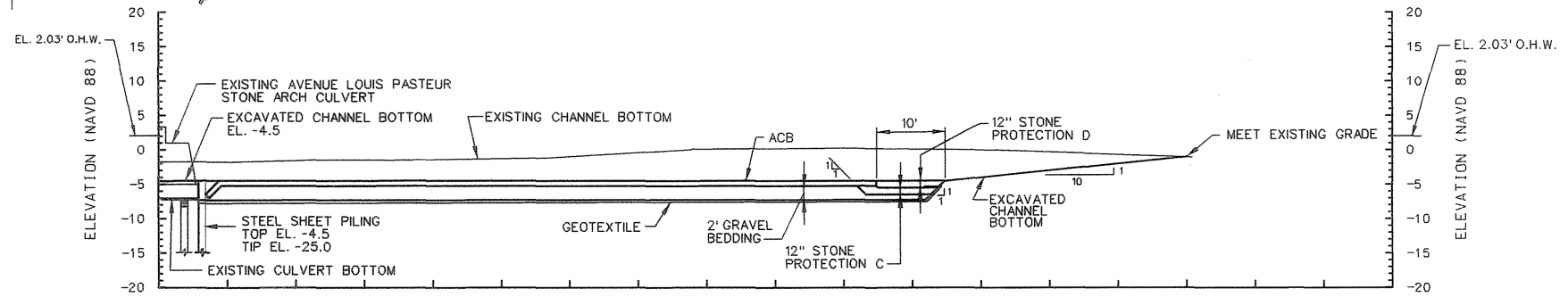
SITE PLAN NO. 5  
 SHEET 7 OF 16 SHEETS



**NOTES:**

1. TREES GROWING FROM THE FACE OF THE HEADWALL SHALL BE REMOVED BY CUTTING AND TREATING STUMPS WITH HERBICIDE SO AS TO AVOID DAMAGE TO THE EXISTING HEADWALL.
2. NEW PROTECTION (ACB, GEOCELLS, TRM, ETC.) SHALL BE PLACED IN SUCH A MANNER AS TO AVOID DAMAGE TO THE EXISTING HEADWALL.
3. AVENUE LOUIS PASTEUR BRIDGE IS UNRATED FOR HIGHWAY TRAFFIC LOADS.
4. EROSION PROTECTION IS REQUIRED AT EXISTING STORM DRAIN HEADWALLS WHICH DAYLIGHT ON GEOCELLS OR TRM.
5. EXCAVATE RIVER BOTTOM SEDIMENTS TO EL. -4.5 THROUGHOUT ENTIRE LENGTH OF EXISTING CULVERT.
6. LOCATE STEEL SHEET PILING TO AVOID BURIED STONE FOUNDATION OF EXISTING CULVERT. PRE-EXCAVATE TO DEPTH NECESSARY TO DETERMINE EXTENT OF EXISTING FOUNDATION.

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**PROFILE - CENTER LINE**  
 SCALE: 1" = 100'

