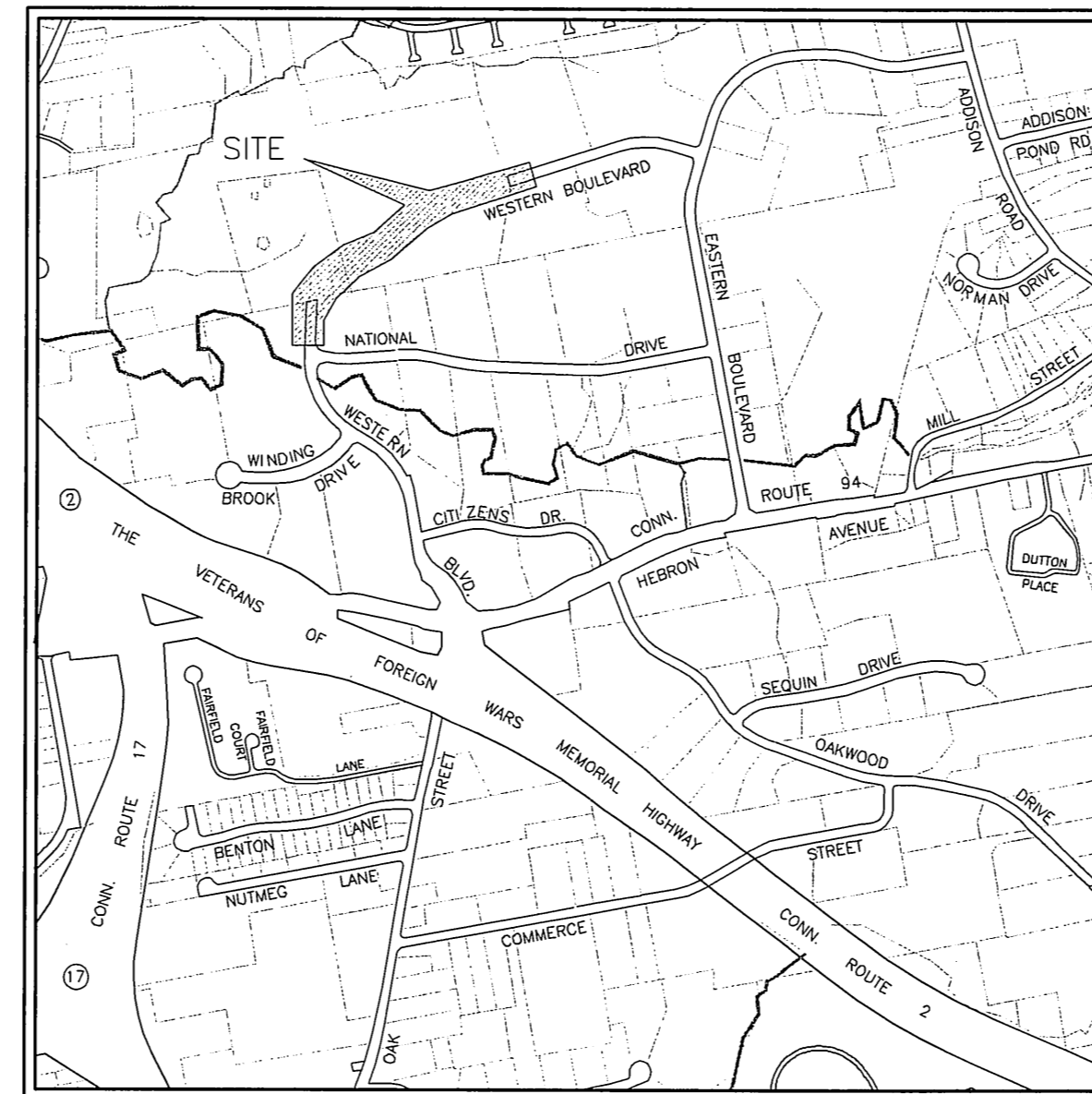


# TOWN OF GLASTONBURY ENGINEERING DEPARTMENT PROPOSED WESTERN BOULEVARD CONNECTOR PW-0920 located between NATIONAL DRIVE & EASTERN BOULEVARD GLASTONBURY, CONNECTICUT

### SHEET INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2,3	PROPOSED WESTERN BOULEVARD CONNECTOR PLAN AND PROFILE
4,5,6,7	PROPOSED WESTERN BOULEVARD CONNECTOR CROSS SECTIONS
8,9,10	PROPOSED WESTERN BOULEVARD CONNECTOR MDC - WATER MAIN PLAN & PROFILE, DETAILS
11,12	PROPOSED WESTERN BOULEVARD CONNECTOR STORM WATER POLLUTION CONTROL PLAN/DETAILS
13,14	PROPOSED WESTERN BOULEVARD CONNECTOR MISC. DETAILS/NOTES
15	PROPOSED WESTERN BOULEVARD CONNECTOR MISC. UTILITY DETAILS/NOTES



**LOCATION MAP**

SCALE: 1"=1000'

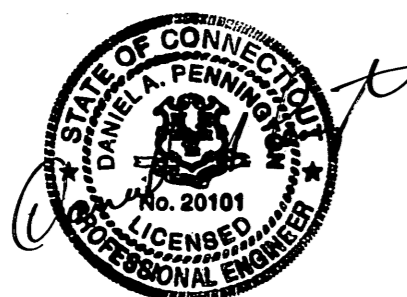
**JUNE 2010**

**ISSUED FOR CONSTRUCTION**

RICHARD J. JOHNSON  
TOWN MANAGER

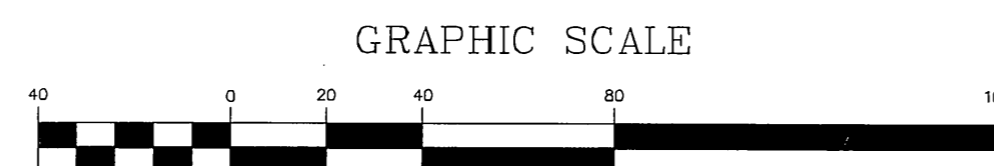
DANIEL A. PENNINGTON  
MANAGER OF PHYSICAL SERVICES/TOWN ENGINEER

<i>WESTERN BOULEVARD CONNECTOR</i>	<i>PLANNED EMPLOYMENT</i>
<i>PROJECT/APPLICANT</i>	<i>ZONE</i>
<i>WESTERN BOULEVARD</i>	
<i>PROJECT ADDRESS</i>	
<i>SPECIAL PERMIT SECTION</i>	<i>TPZ CHAIRPERSON</i>
<i>DATE SPECIAL PERMIT APP'D</i>	<i>DIRECTOR OF COMMUNITY DEVELOPMENT</i>
<i>FILE NO.</i>	



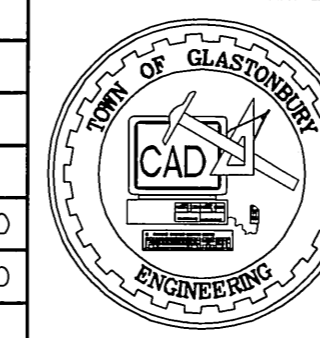
ALL UTILITY INFORMATION AND DATA SHOWN OR INDICATED IN THE CONTRACT DOCUMENTS ARE COMPILED FROM MAPS AND DATA FURNISHED BY OTHERS. ANY SUCH INFORMATION SHOULD NOT BE CONSTRUED AS ACCURATE OR COMPLETE AND THE CONTRACTOR SHALL VERIFY ALL LOCATIONS PRIOR TO CONSTRUCTION.

MANUAL REVISIONS TO THIS DOCUMENT ARE PROHIBITED. ALL REVISIONS MUST BE PERFORMED ON CADD FILE.  
H:\DWG\Streets\Western Blvd\Civil 3D 2009\Western Boulevard Connector.dwg



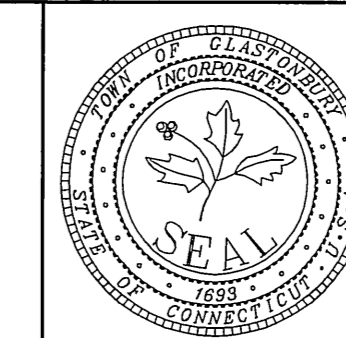
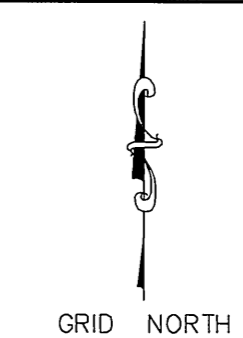
( IN FEET )  
1 inch = 40 ft.  
IF SCALING FROM THIS PLAN, VERIFY SCALE WITH THE GRAPHIC SCALE PROVIDED ABOVE.

NO.	DESCRIPTION	DATE
2.	ISSUED FOR CONSTRUCTION	6/16/2010
1.	ISSUED FOR PERMITTING	5/14/2010



SCALE: AS SHOWN	DATE:
DRAWN BY: C.F.S.	5/12/2010
CHECKED BY: S.M.B.	6/16/2010
APPROVED BY: D.A.P.	6/16/2010
ST. FILE:	

DO NOT SCALE THIS DRAWING. USE THE DIMENSIONS GIVEN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT THE TOWN OF GLASTONBURY, ENGINEERING OFFICE.

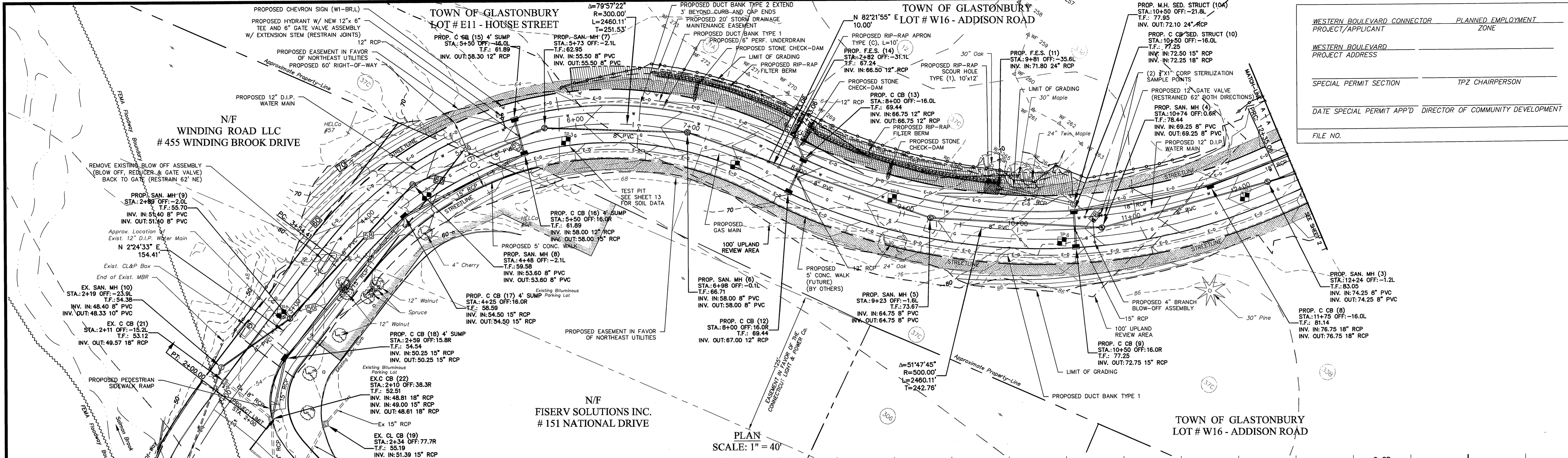


TITLE SHEET  
PROPOSED ROADWAY CONNECTION  
FOR THE COMPLETION OF  
WESTERN BOULEVARD  
LOCATED BETWEEN  
NATIONAL DRIVE & EASTERN BOULEVARD  
GLASTONBURY, CONNECTICUT

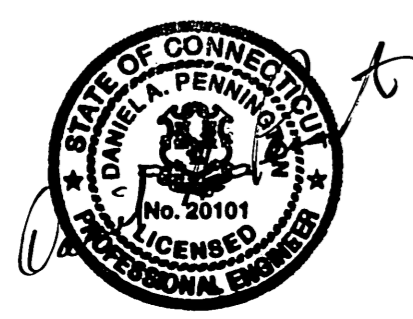
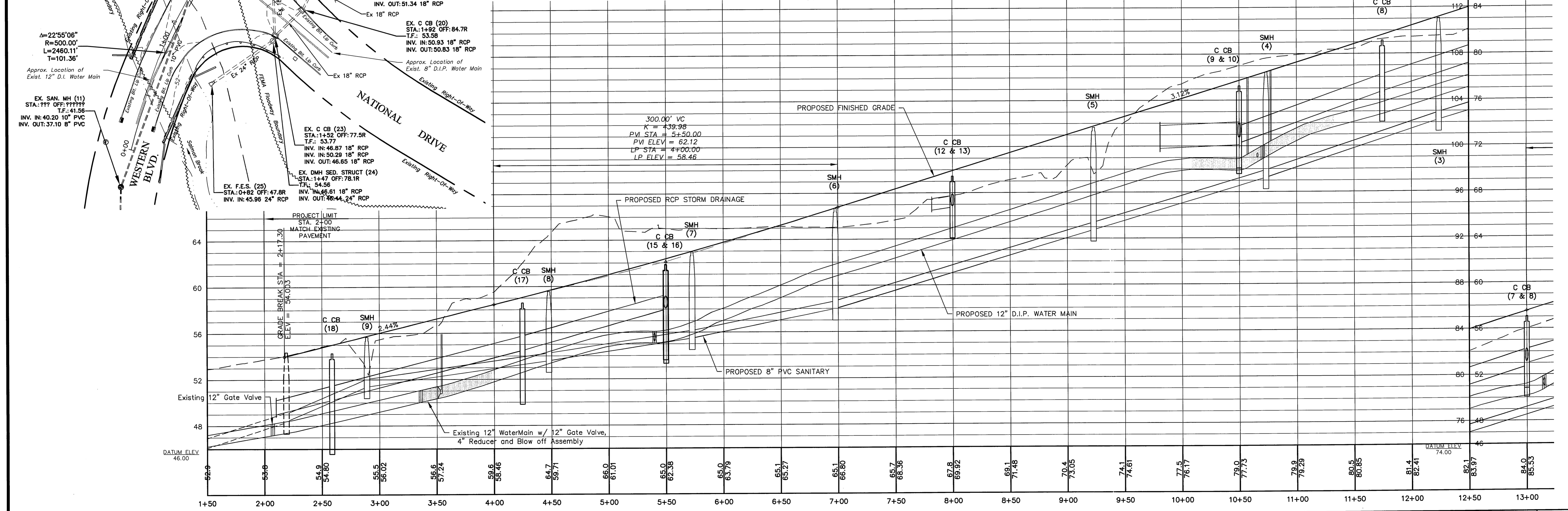
SHEET NO.  
**1**  
OF 15

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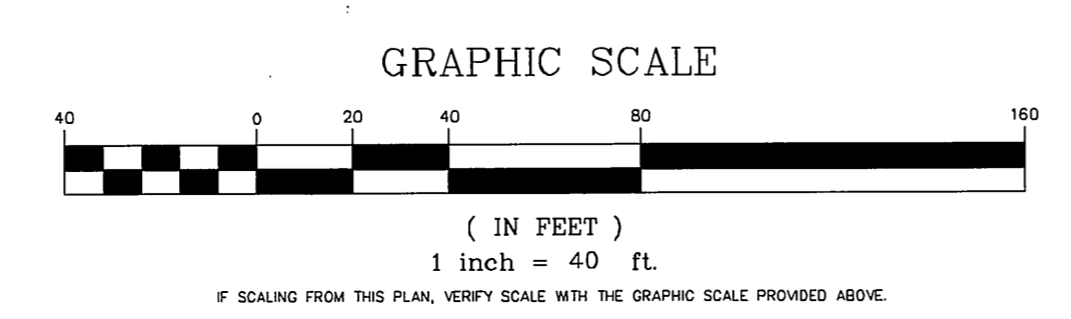
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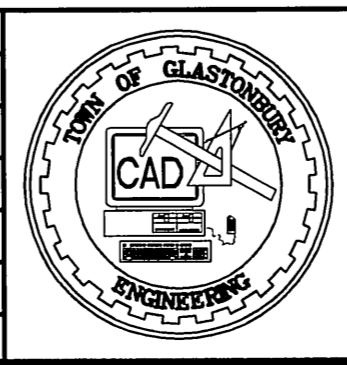
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 WESTERN BOULEVARD PROJECT ADDRESS  
 SPECIAL PERMIT SECTION TPZ CHAIRPERSON  
 DATE SPECIAL PERMIT APP'D DIRECTOR OF COMMUNITY DEVELOPMENT  
 FILE NO.



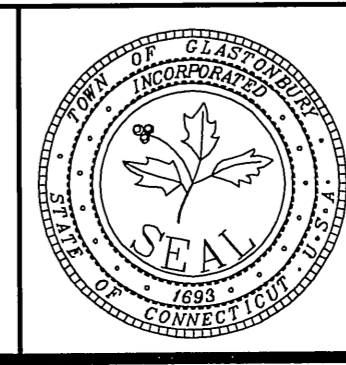
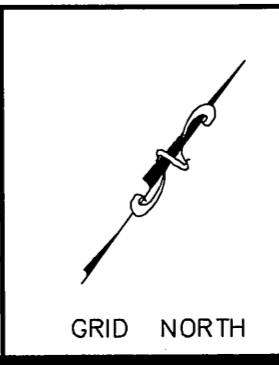
PROFILE  
 SCALE: 1" = 40' HORIZ.  
 SCALE: 1" = 4' VERT.



DRAWING ISSUE STATUS		
NO.	DESCRIPTION	DATE
2.	ISSUED FOR CONSTRUCTION	6/16/2010
1.	ISSUED FOR PERMITTING	5/14/2010



SCALE: AS SHOWN  
 DRAWN BY: C.F.S. 5/12/2010  
 CHECKED BY: S.M.B. 6/16/2010  
 APPROVED BY: D.A.P. 6/16/2010  
 ST. FILE:  
 DO NOT SCALE THIS DRAWING. USE THE DIMENSIONS GIVEN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT THE TOWN OF GLASTONBURY, ENGINEERING OFFICE.



PLAN & PROFILE  
 PROPOSED ROADWAY CONNECTION  
 FOR THE COMPLETION OF  
 WESTERN BOULEVARD  
 LOCATED BETWEEN  
 NATIONAL DRIVE & EASTERN BOULEVARD  
 GLASTONBURY, CONNECTICUT

SHEET NO. 2 OF 15

FILE: E:\DWG\Streets\Western Blvd\Ch13 2009\Western Boulevard Connector.dwg USBC: Charles Stabile/ang DATE: 6/17/2010

TOWN OF GLASTONBURY  
LOT # W16 - ADDISON ROAD

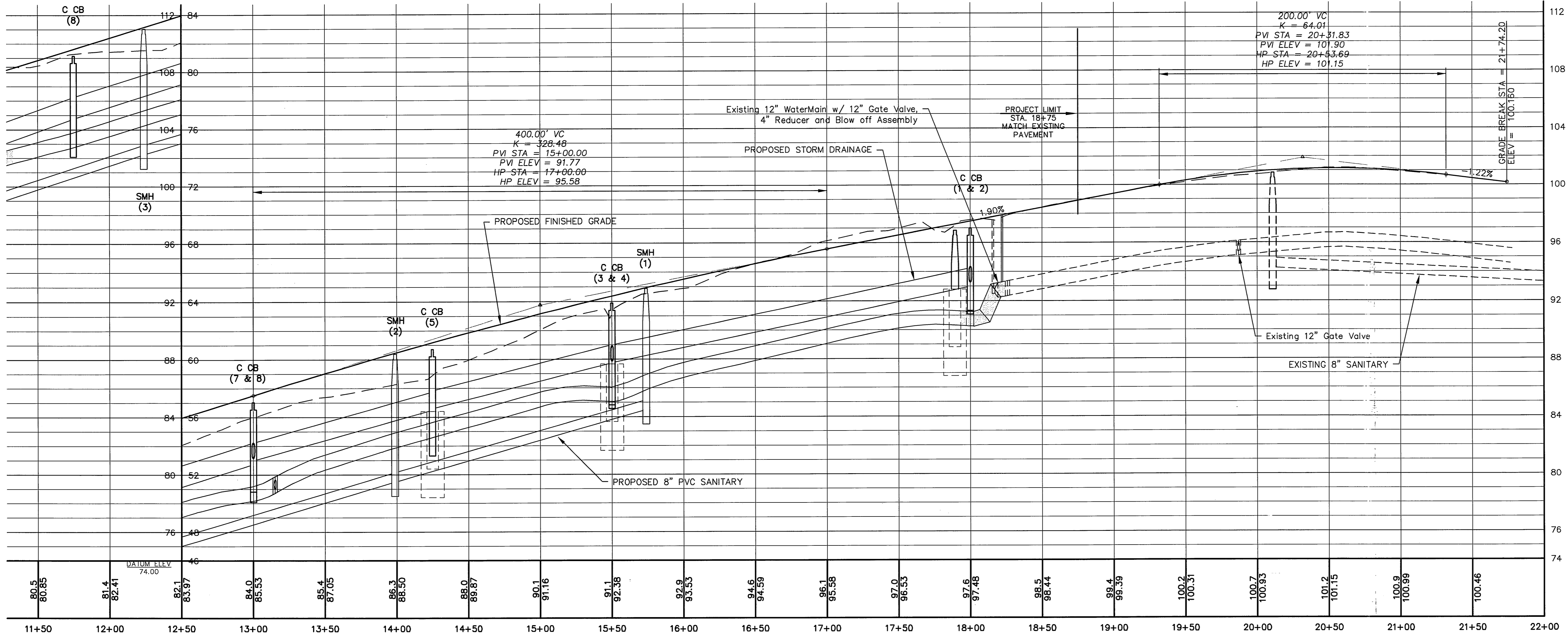
TOWN OF GLASTONBURY  
#295 WESTERN BOULEVARD

N/F  
GATEWAY MEDICAL  
ASSOCIATES LLC  
# 300 - 310  
WESTERN BOULEVARD

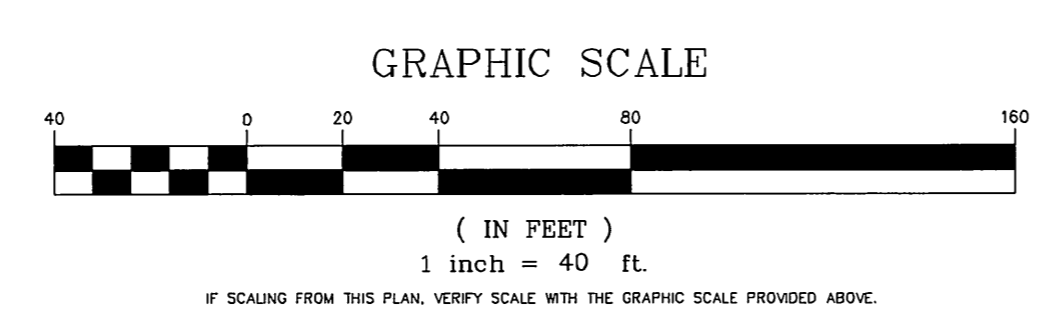
TOWN OF GLASTONBURY  
LOT # W16 - ADDISON ROAD

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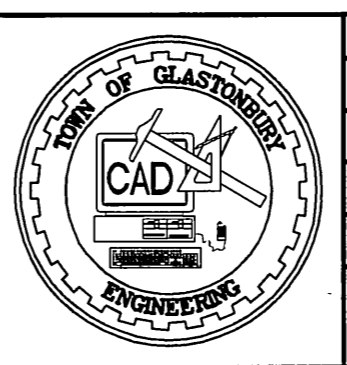
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WESTERN BOULEVARD PROJECT ADDRESS	
SPECIAL PERMIT SECTION	TPZ CHAIRPERSON
DATE SPECIAL PERMIT APP'D	DIRECTOR OF COMMUNITY DEVELOPMENT
FILE NO.	



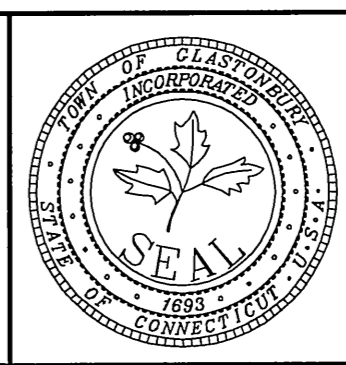
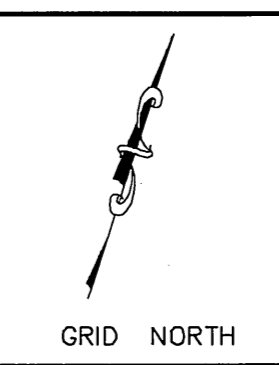
PROFILE  
SCALE: 1" = 40' HORZ.  
SCALE: 1" = 4' VERT.



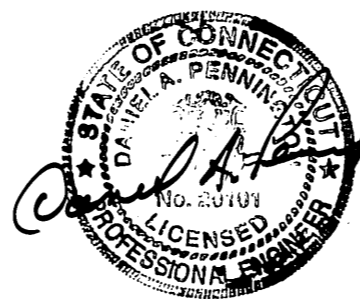
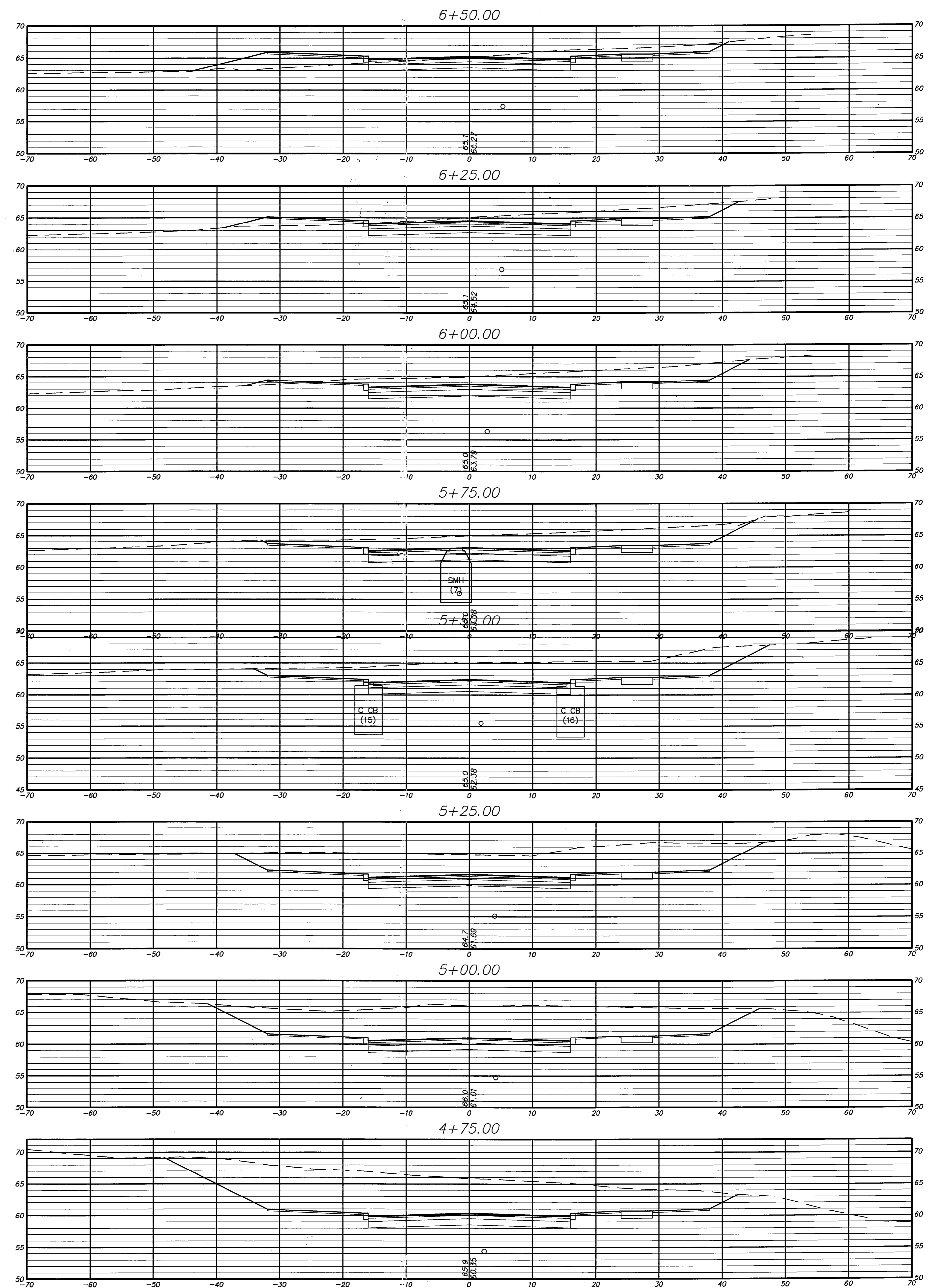
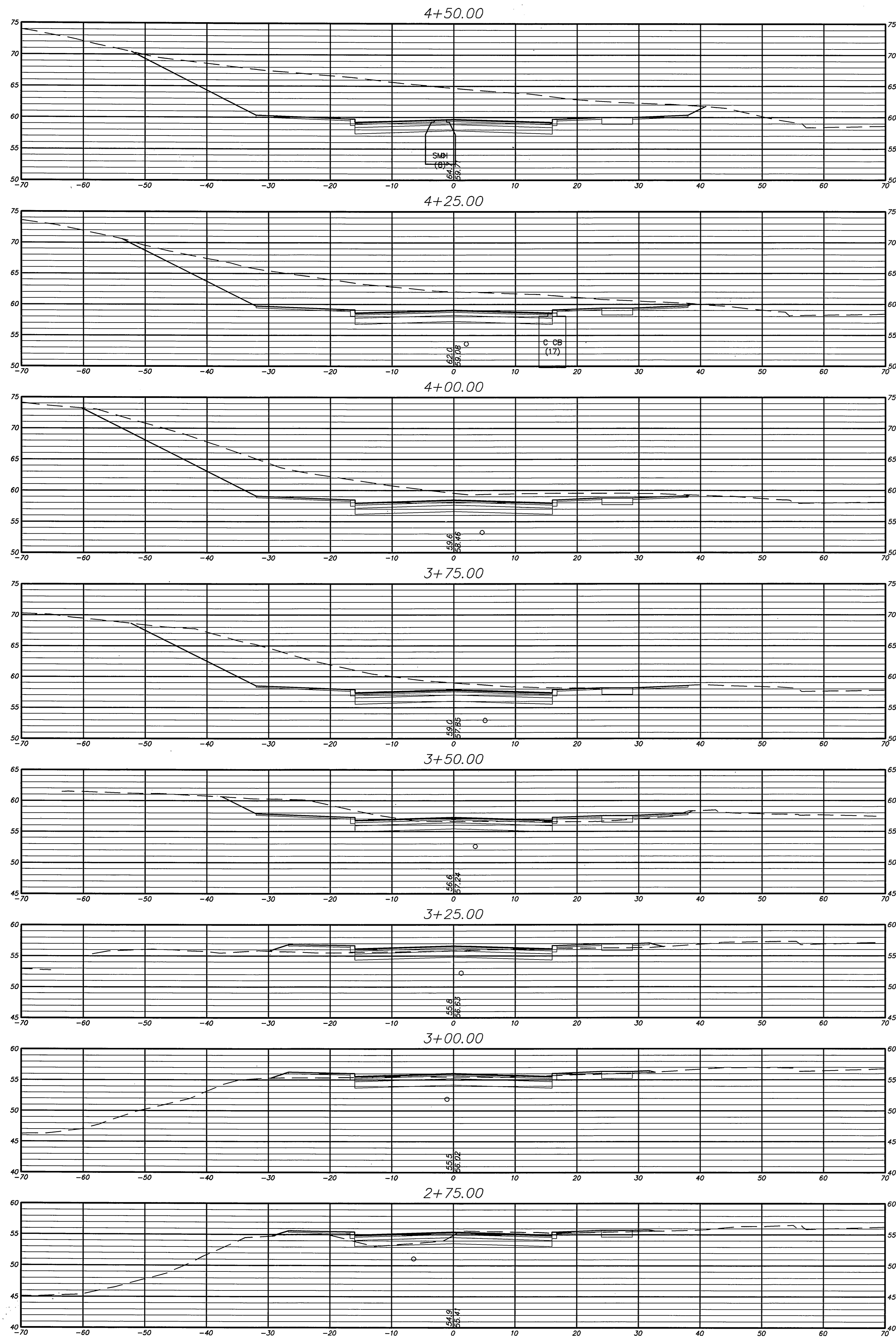
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NO.	DESCRIPTION	DATE
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SCALE: AS SHOWN	DATE:
DRAWN BY: C.F.S.	5/12/2010
CHECKED BY: S.M.B.	6/16/2010
APPROVED BY: D.A.P.	6/16/2010
ST. FILE:	
DO NOT SCALE THIS DRAWING. USE THE DIMENSIONS GIVEN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT THE TOWN OF GLASTONBURY, ENGINEERING OFFICE.	

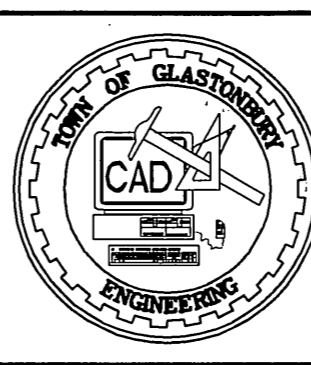


PLAN & PROFILE  
PROPOSED ROADWAY CONNECTION  
FOR THE COMPLETION OF  
WESTERN BOULEVARD  
LOCATED BETWEEN  
NATIONAL DRIVE & EASTERN BOULEVARD  
GLASTONBURY, CONNECTICUT

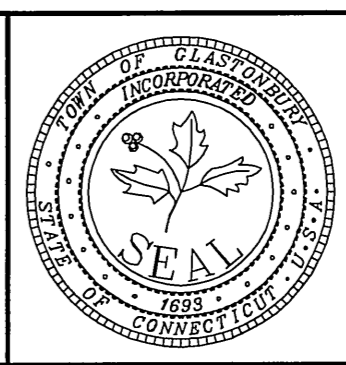
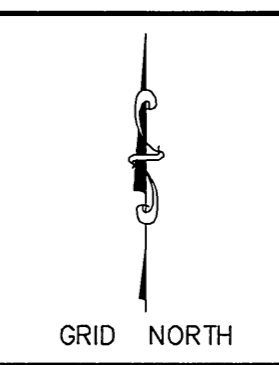


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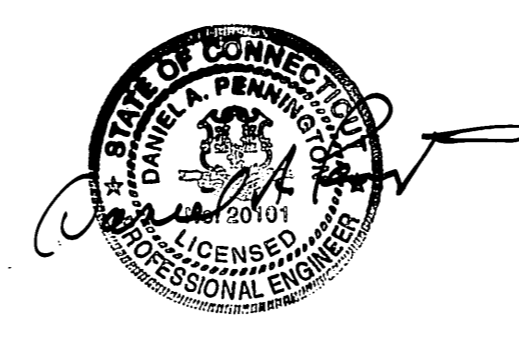
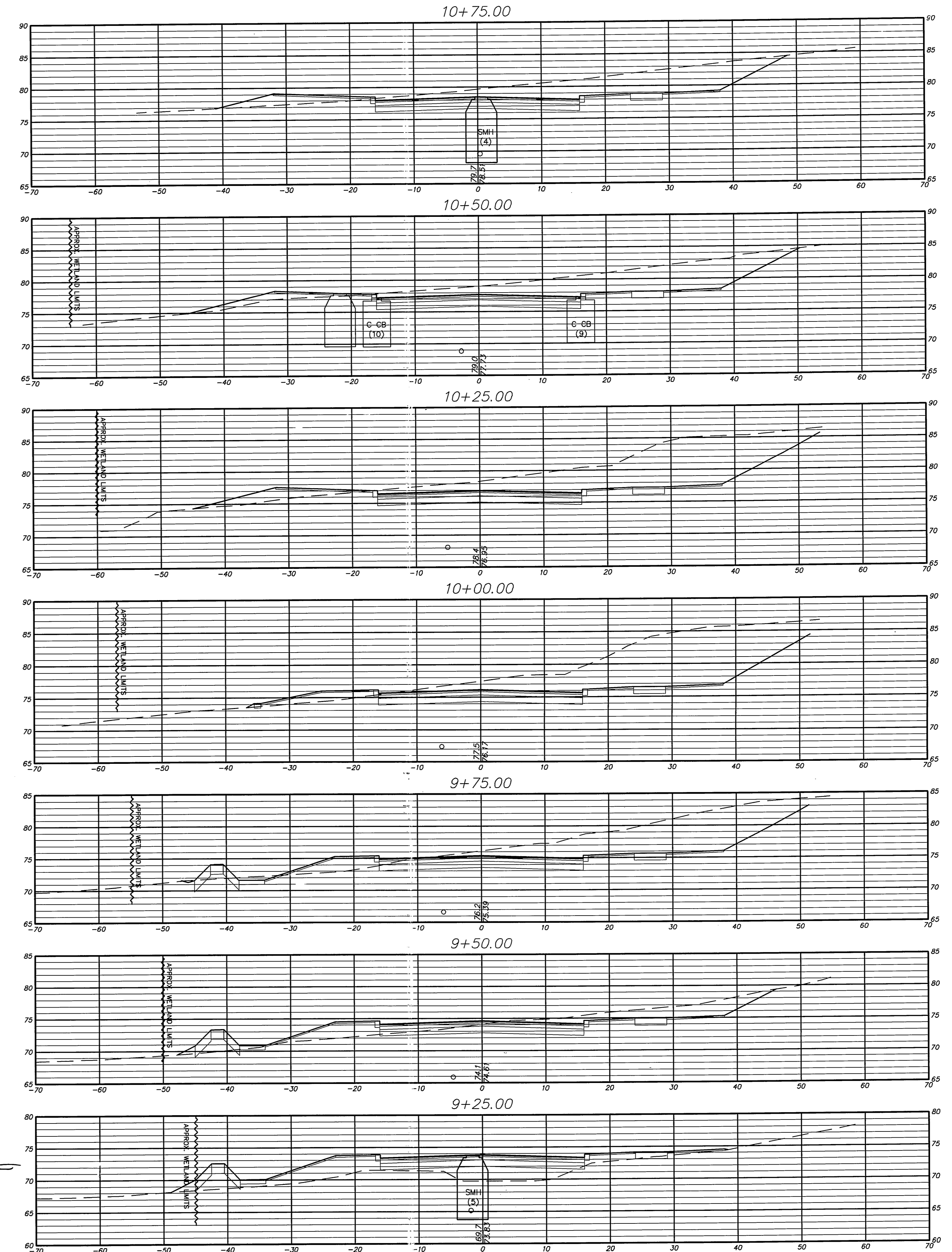
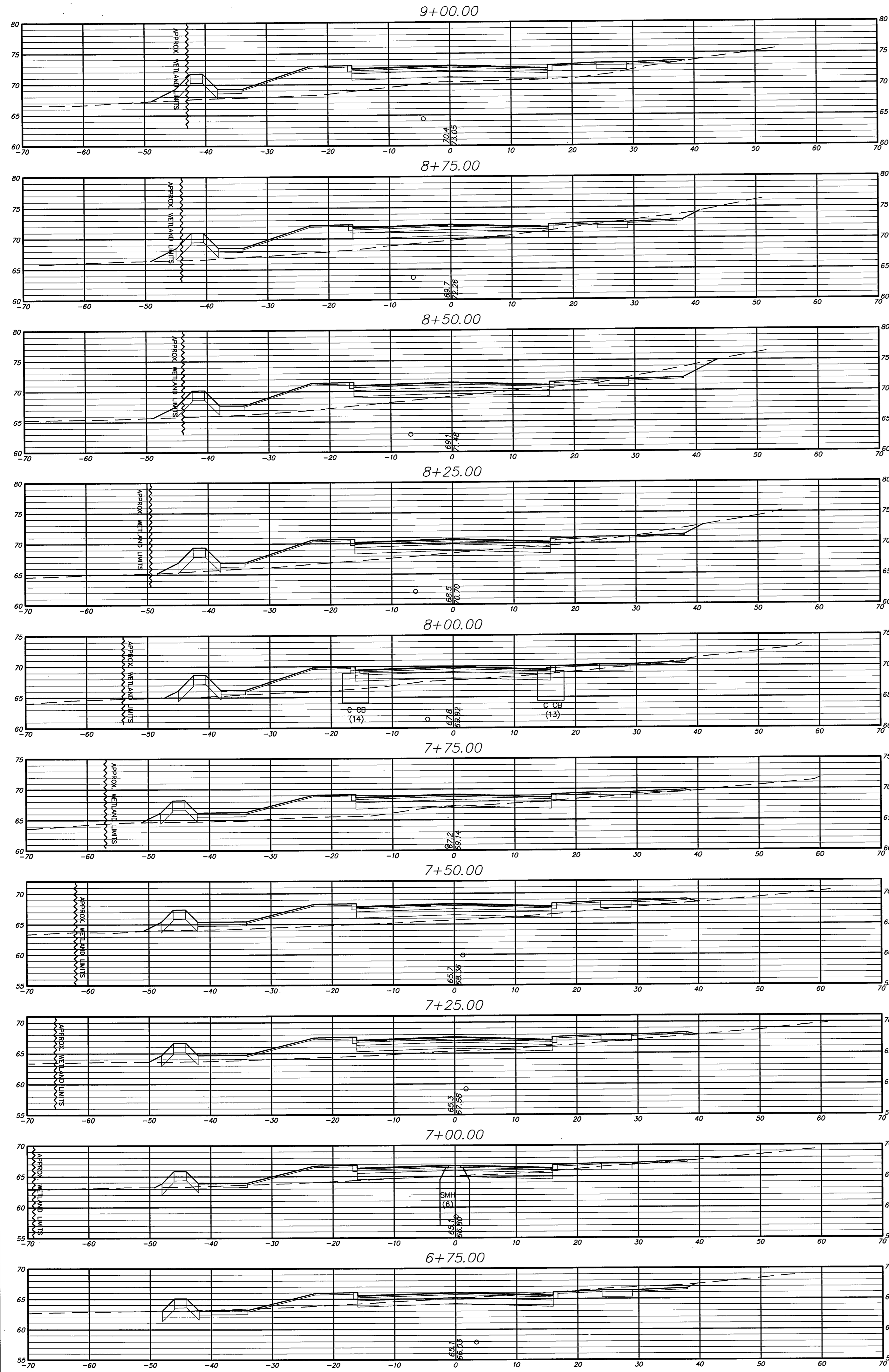
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SCALE: AS SHOWN DATE: 5/12/2010  
 DRAWN BY: C.F.S. 6/16/2010  
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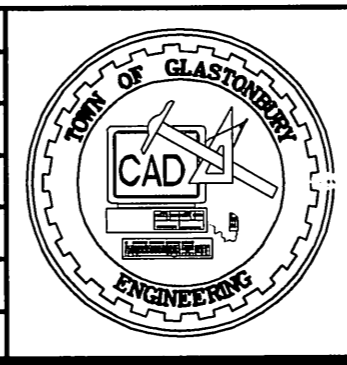


CROSS SECTIONS  
 PROPOSED ROADWAY CONNECTION  
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 LOCATED BETWEEN  
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 GLASTONBURY, CONNECTICUT

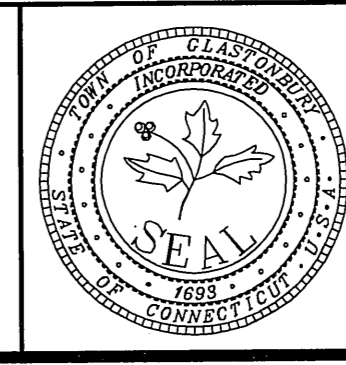
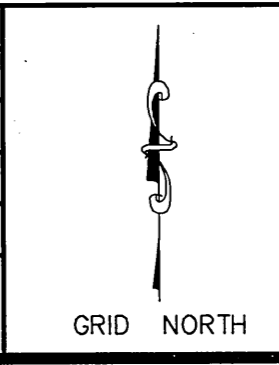


CROSS SECTION  
SCALE: 1" = 10'

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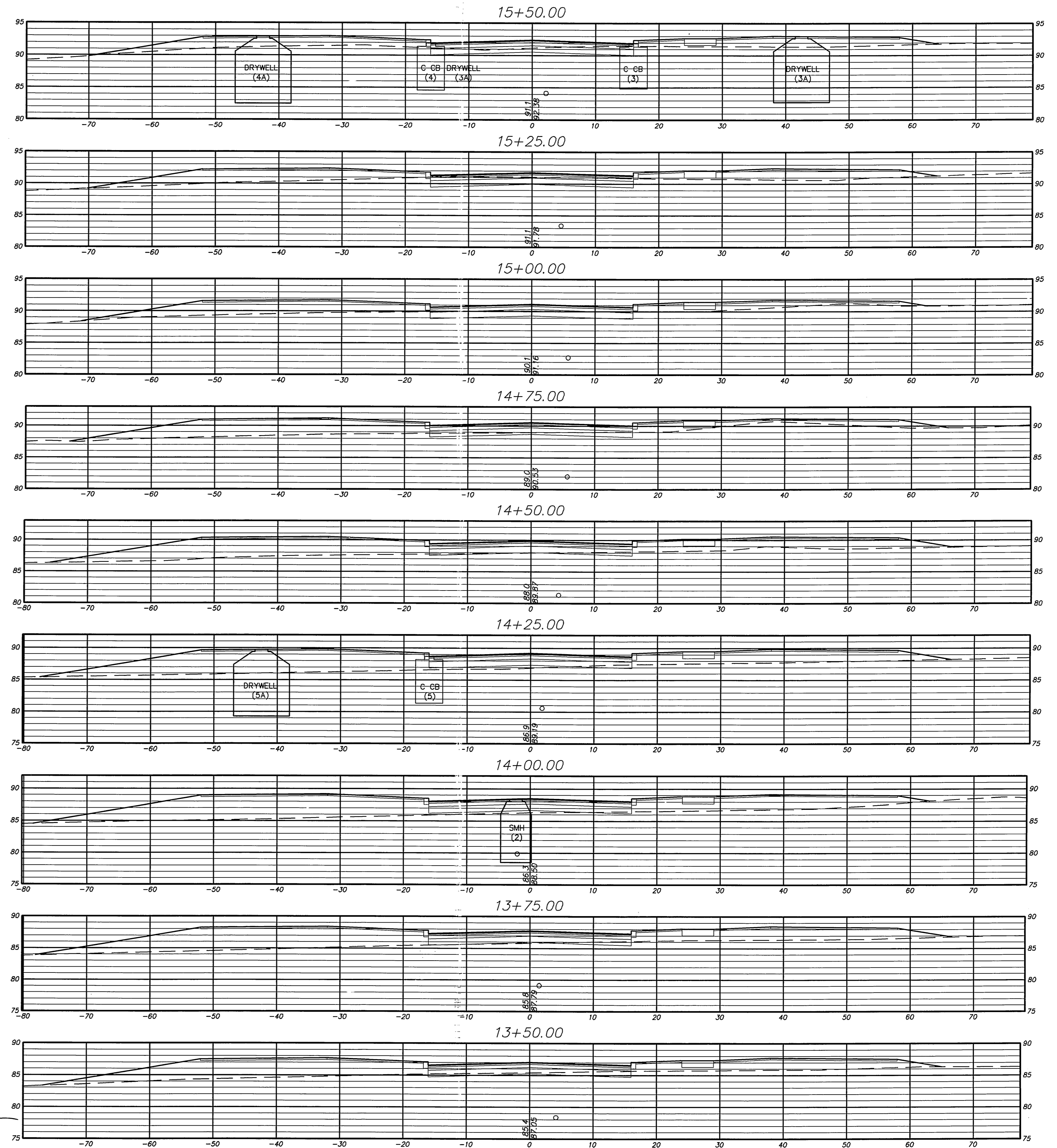
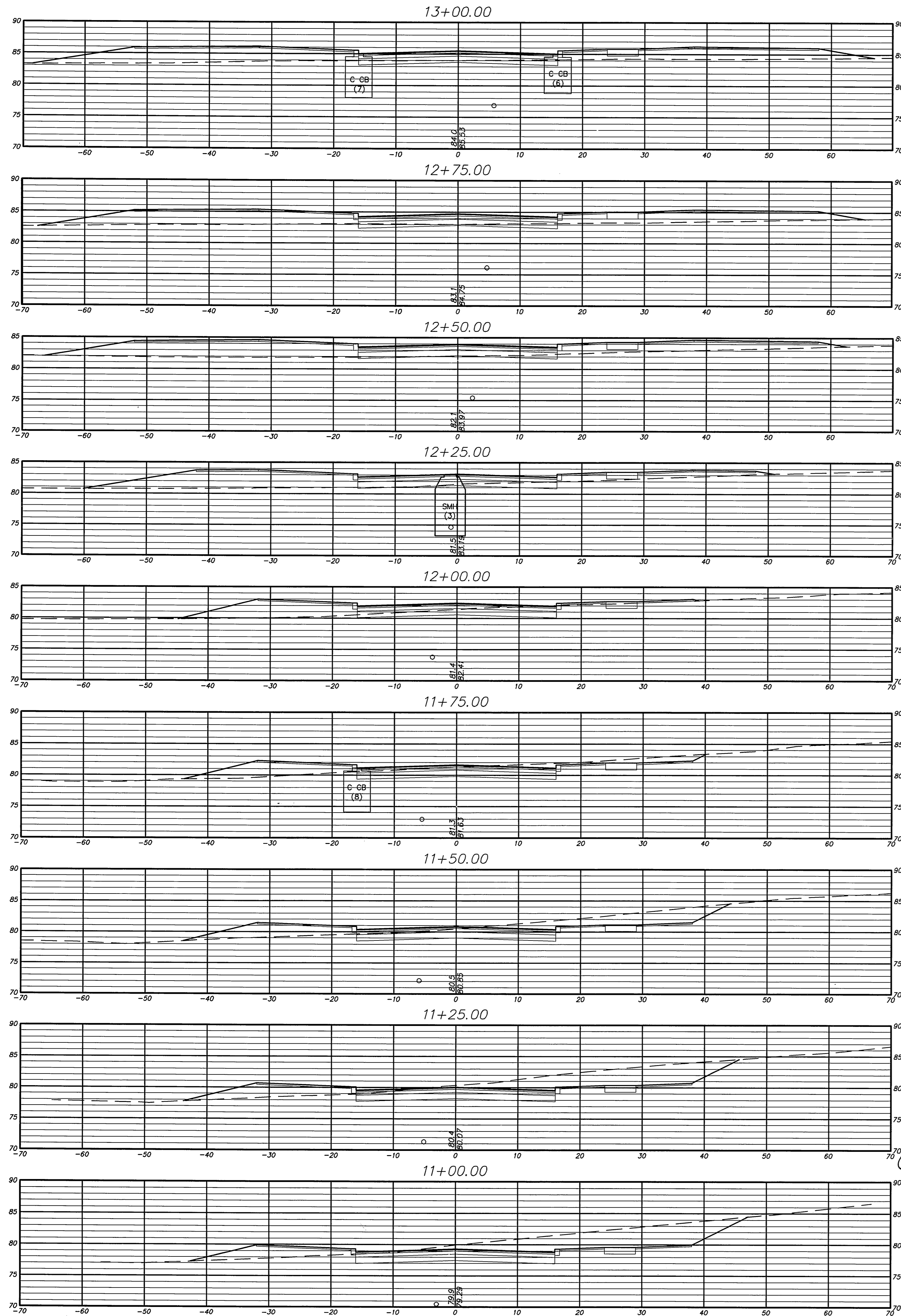


SCALE: AS SHOWN	DATE: 5/12/2010
DRAWN BY: C.F.S.	CHECKED BY: S.M.B.:
APPROVED BY: D.A.P.	6/16/2010
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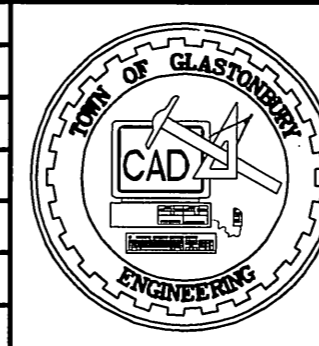
CROSS SECTIONS  
FOR THE COMPLETION OF  
**PROPOSED ROADWAY CONNECTION  
FOR WESTERN BOULEVARD**  
LOCATED BETWEEN  
**NATIONAL DRIVE & EASTERN BOULEVARD  
GLASTONBURY, CONNECTICUT**

FILE: H:\DWG\Cross Western Blvd\Civil 2D 2009\Western Boulevard Construction USEG: Charles Stanbury DATE: 6/17/2010

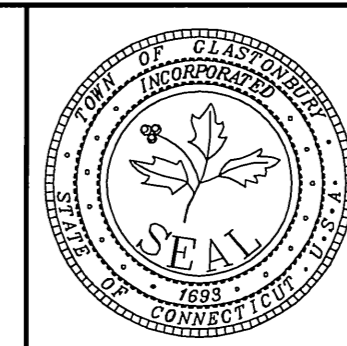
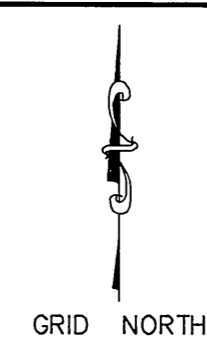


CROSS SECTION  
SCALE: 1" = 10'

DRAWING ISSUE STATUS		
NO.	DESCRIPTION	DATE
2.	ISSUED FOR CONSTRUCTION	6/16/2010
1.	ISSUED FOR PERMITTING	5/14/2010



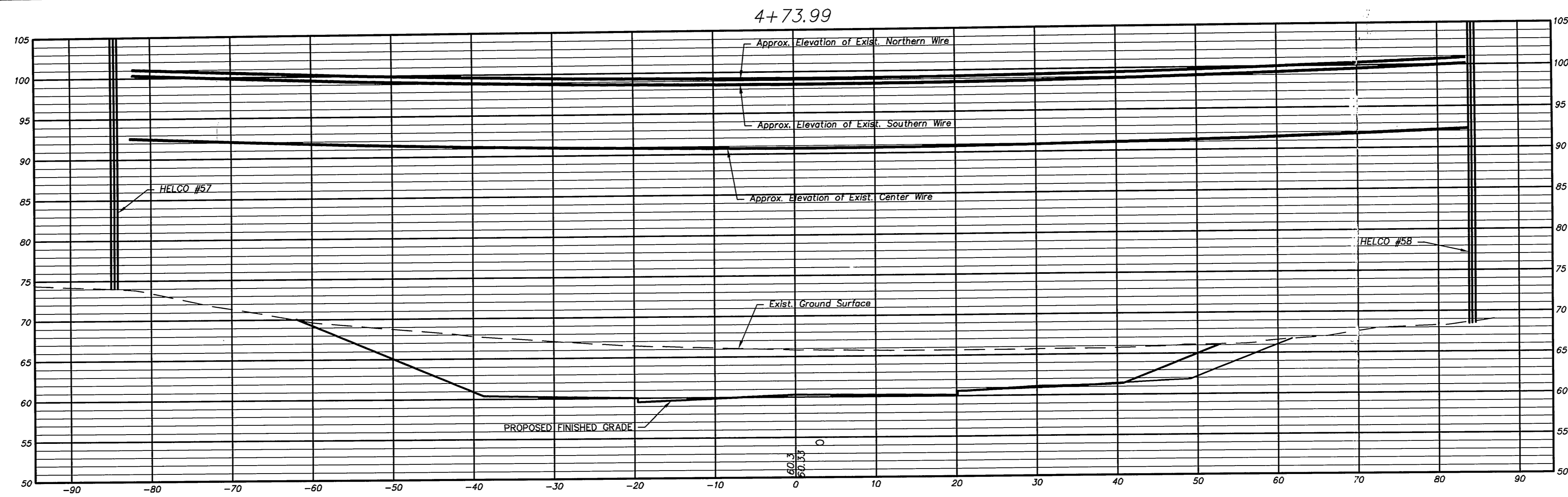
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DRAWN BY: C.F.S.	5/12/2010
CHECKED BY: S.M.B.	6/16/2010
APPROVED BY: D.A.P.	6/16/2010
ST. FILE:	
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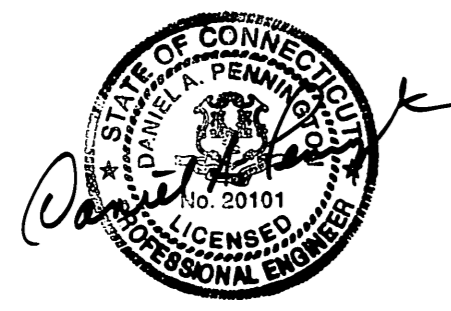
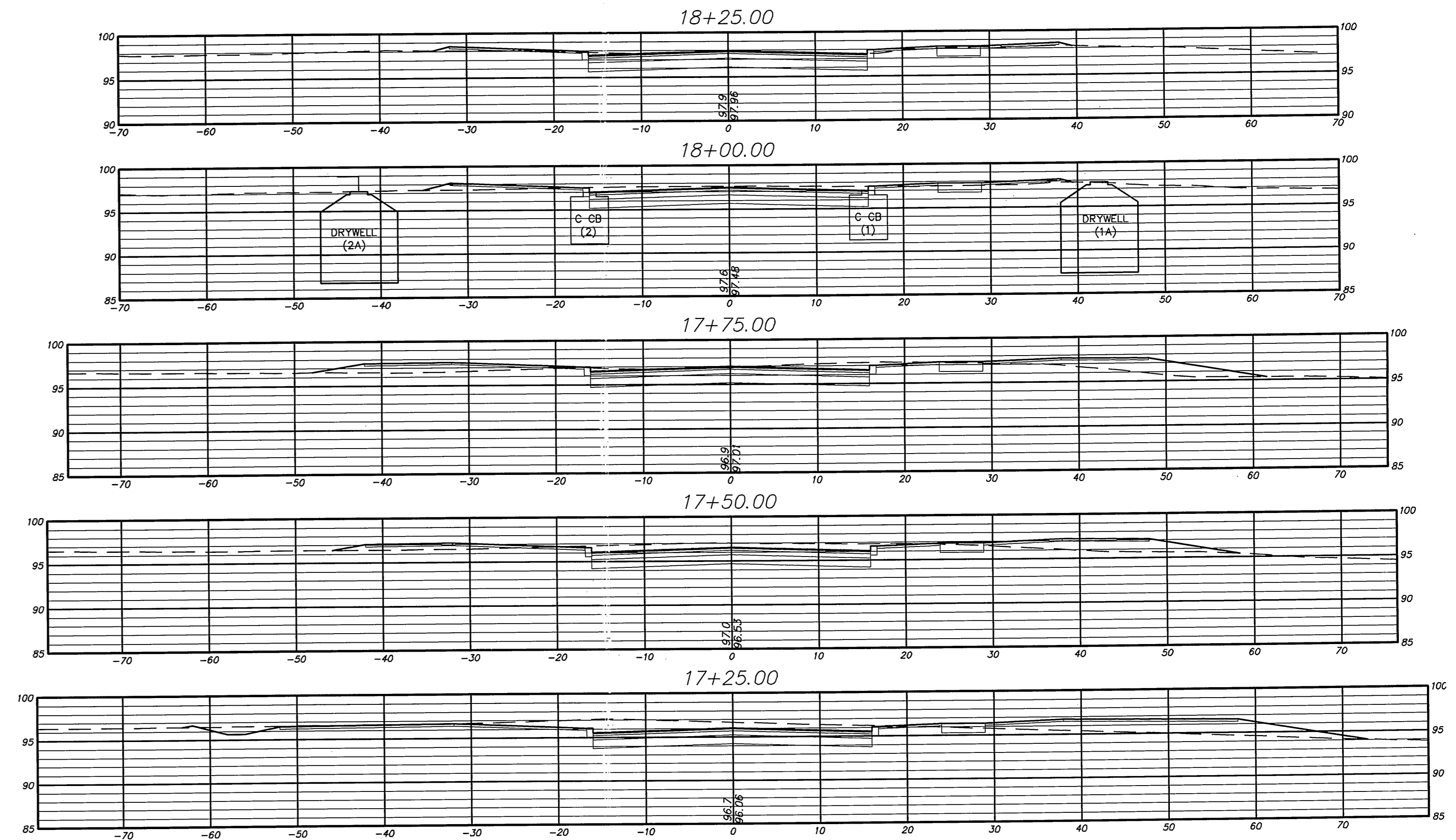
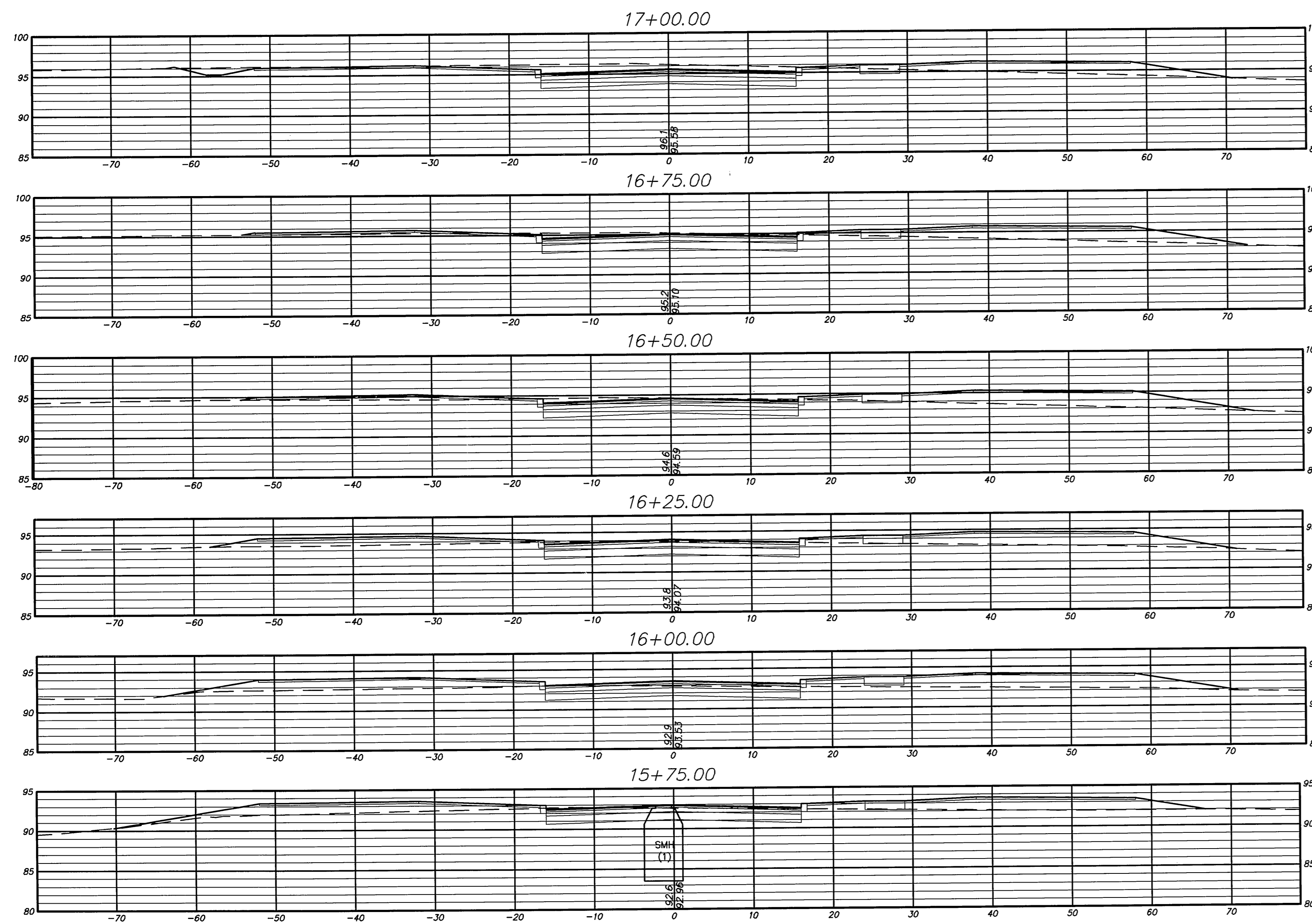
CROSS SECTIONS  
FOR THE COMPLETION OF  
**PROPOSED ROADWAY CONNECTION**  
WESTERN BOULEVARD  
LOCATED BETWEEN  
NATIONAL DRIVE & EASTERN BOULEVARD  
GLASTONBURY, CONNECTICUT

SHEET NO.  
**6**  
OF 15

FILE: H:\DWG\Street\Western Blvd\Civil 3D 2009\Western Boulevard Connection.dwg USER: Charles Schallinger DATE: 6/17/2010



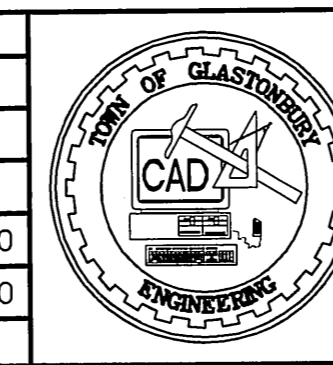
PROPOSED ROADWAY CROSS SECTION ALONG HELCO POWER LINES  
Scale: 1" = 10'



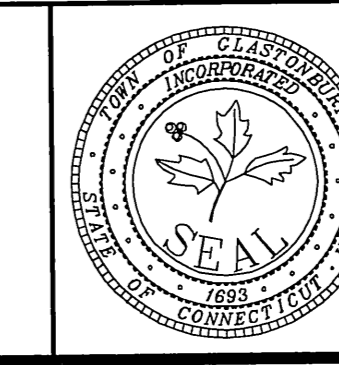
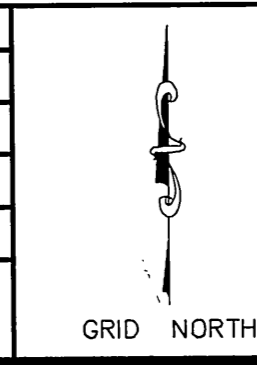
CROSS SECTION  
SCALE: 1" = 10'

PW-0920

DRAWING ISSUE STATUS		
NO.	DESCRIPTION	DATE
2.	ISSUED FOR CONSTRUCTION	6/16/2010
1.	ISSUED FOR PERMITTING	5/14/2010



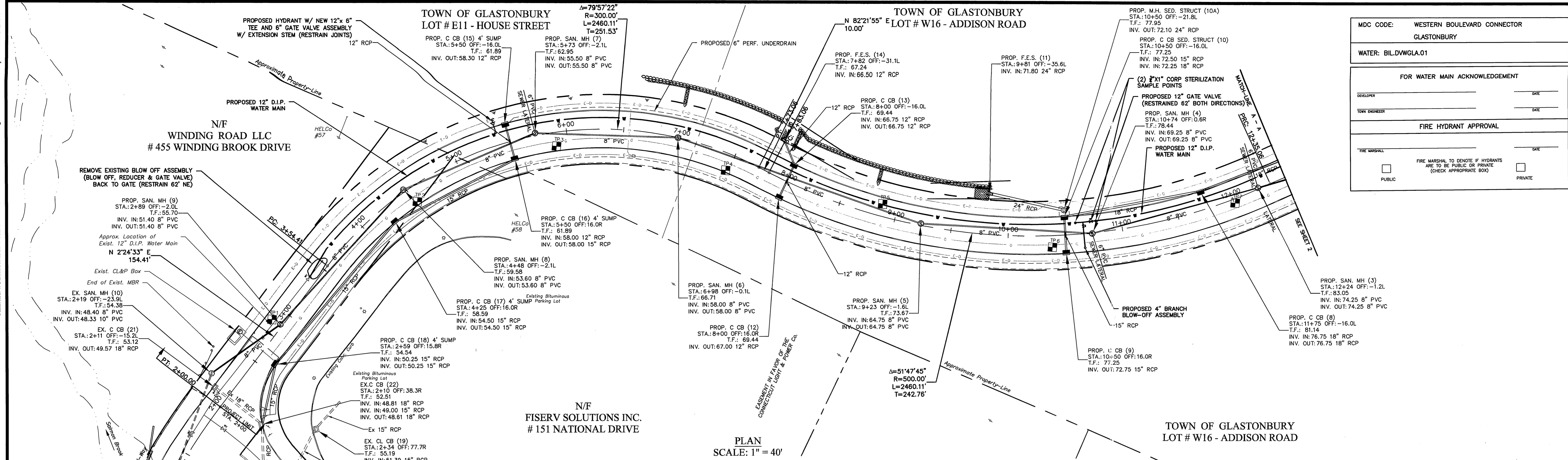
SCALE: AS SHOWN	DATE: 5/12/2010
DRAWN BY: C.F.S.	6/16/2010
CHECKED BY: S.M.B.	6/16/2010
APPROVED BY: D.A.P.	6/16/2010
ST. FILE:	
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CROSS SECTIONS  
PROPOSED ROADWAY CONNECTION  
FOR THE COMPLETION OF  
WESTERN BOULEVARD  
LOCATED BETWEEN  
NATIONAL DRIVE & EASTERN BOULEVARD  
GLASTONBURY, CONNECTICUT

SHEET NO.  
**7**  
OF 15

FILE: BLDV0100\Western Blvd\Civil 3D 2009\Western Boulevard Connector.dwg USER: Charles Staszulski DATE: 01/20/10



MDC CODE: WESTERN BOULEVARD CONNECTOR  
 GLASTONBURY

WATER: BILDVWGLA01

FOR WATER MAIN ACKNOWLEDGEMENT

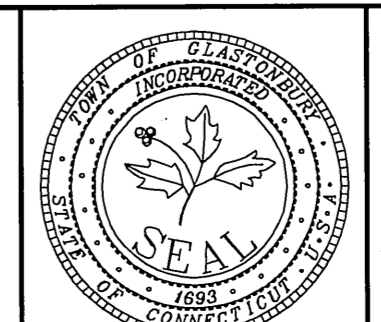
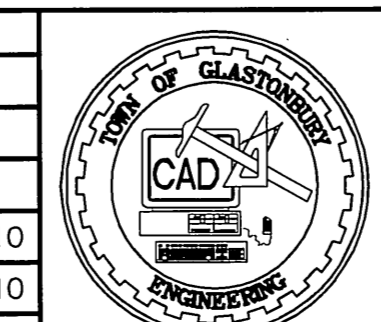
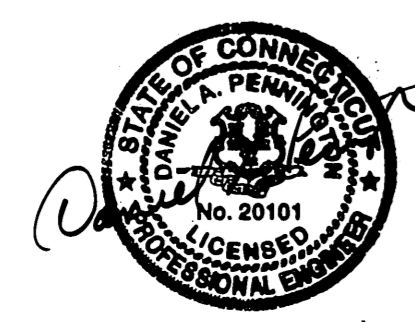
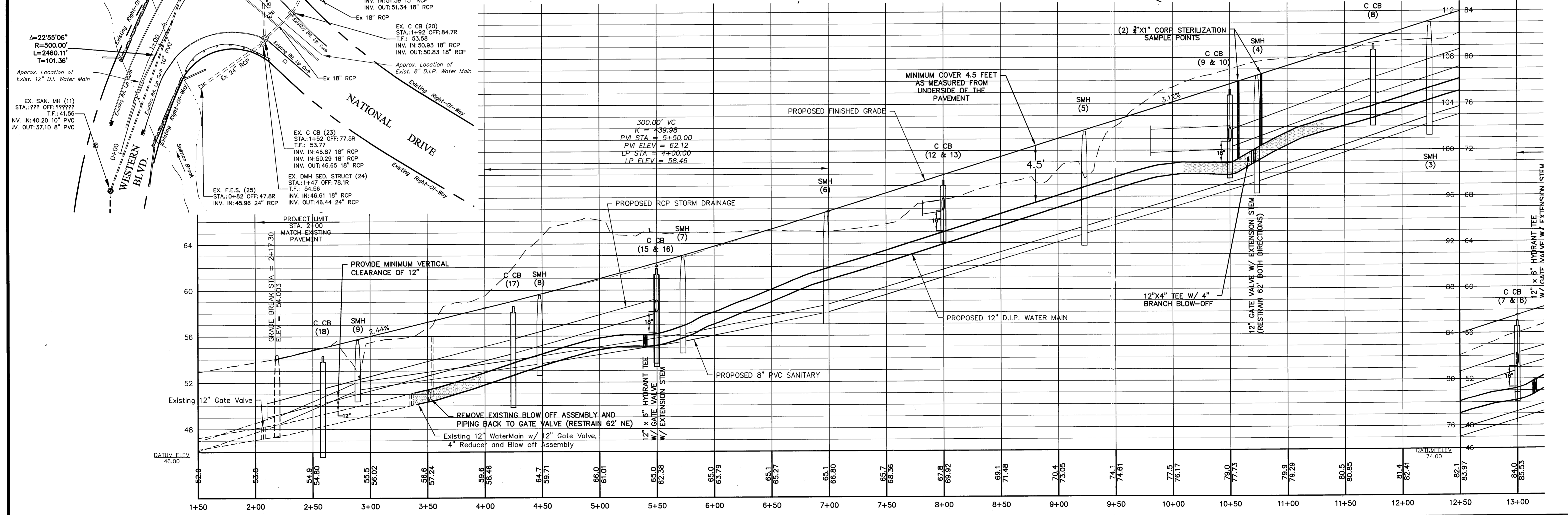
DEVELOPER: \_\_\_\_\_ DATE: \_\_\_\_\_

TOWN ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

FIRE HYDRANT APPROVAL

FIRE MARSHAL: \_\_\_\_\_ DATE: \_\_\_\_\_

PUBLIC  PRIVATE



PLAN & PROFILE  
 PROPOSED WATER MAIN  
 FOR THE COMPLETION OF  
 WESTERN BOULEVARD  
 LOCATED BETWEEN  
 NATIONAL DRIVE & EASTERN BOULEVARD  
 GLASTONBURY, CONNECTICUT

SHEET NO. **8** OF 15



FILE: H:\DWG\Streets\Western Blvd\Chal 3D 2009\Western Boulevard Connector.dwg USER: Charles Staubler DATE: 6/17/2010

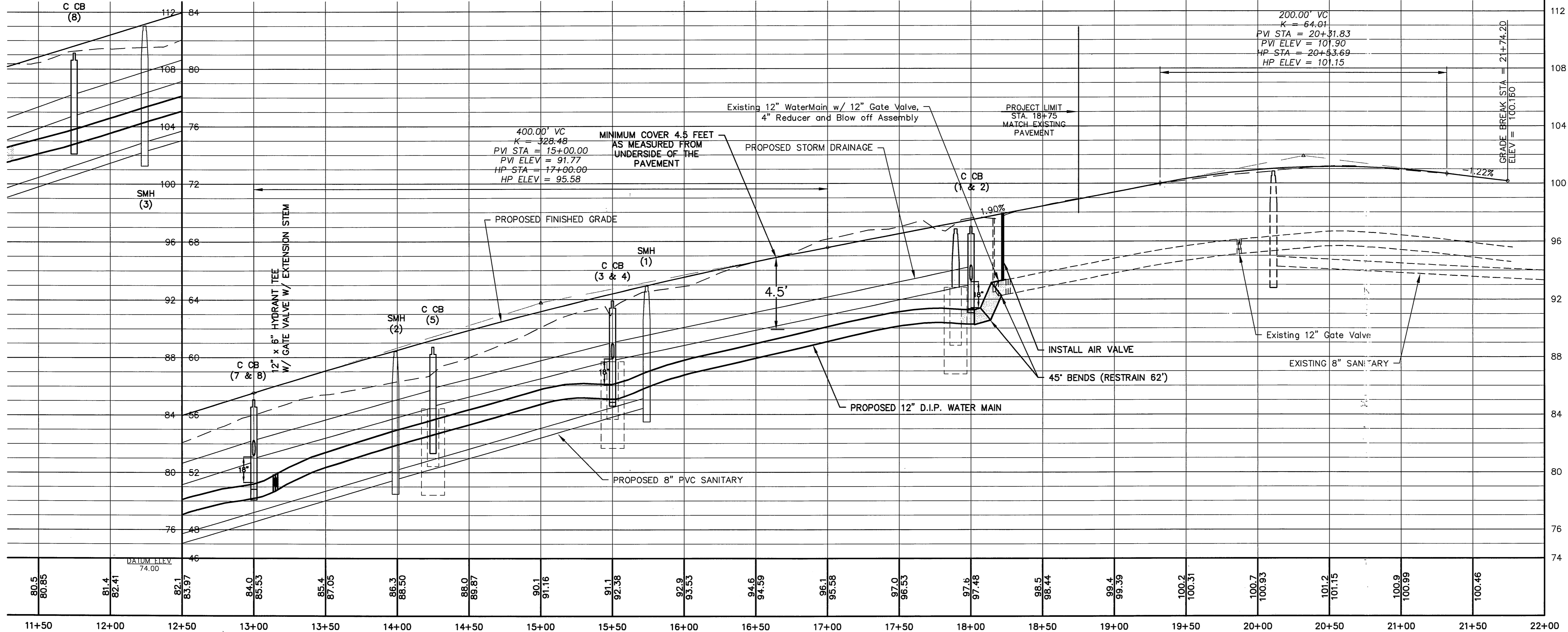
TOWN OF GLASTONBURY  
LOT # W16 - ADDISON ROAD

TOWN OF GLASTONBURY  
#295 WESTERN BOULEVARD

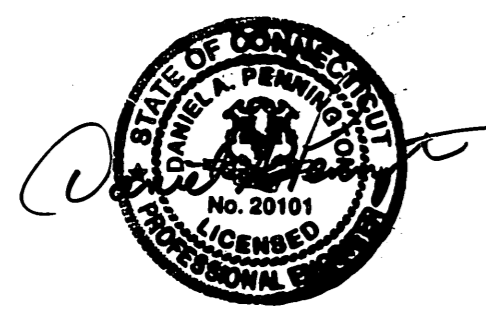
N/F  
GATEWAY MEDICAL  
ASSOCIATES LLC  
# 300 - 310  
WESTERN BOULEVARD

TOWN OF GLASTONBURY  
LOT # W16 - ADDISON ROAD

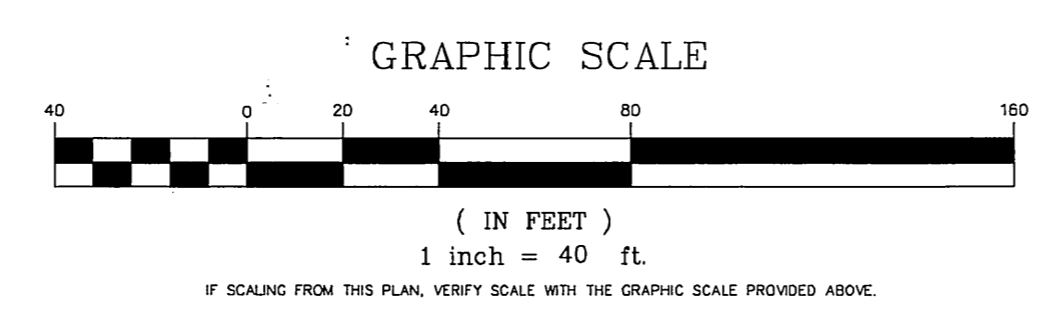
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SCALE: 1" = 40'



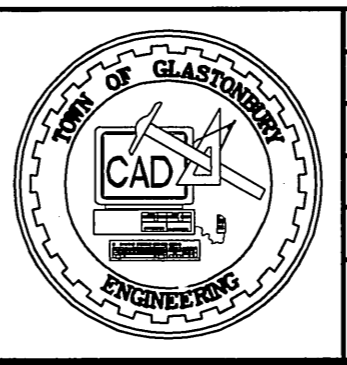
MDC CODE:	WESTERN BOULEVARD CONNECTOR GLASTONBURY
WATER:	BIL.DVWGLA.01
FOR WATER MAIN ACKNOWLEDGEMENT	
DEVELOPER	DATE
TOWN ENGINEER	DATE
FIRE HYDRANT APPROVAL	
FIRE MARSHAL	DATE
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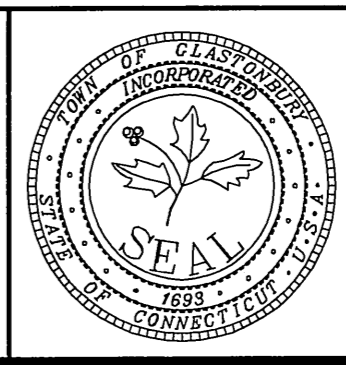
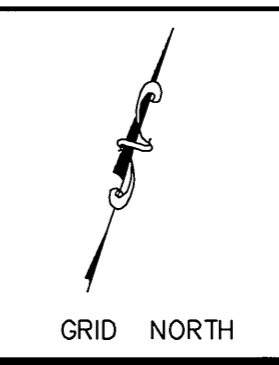
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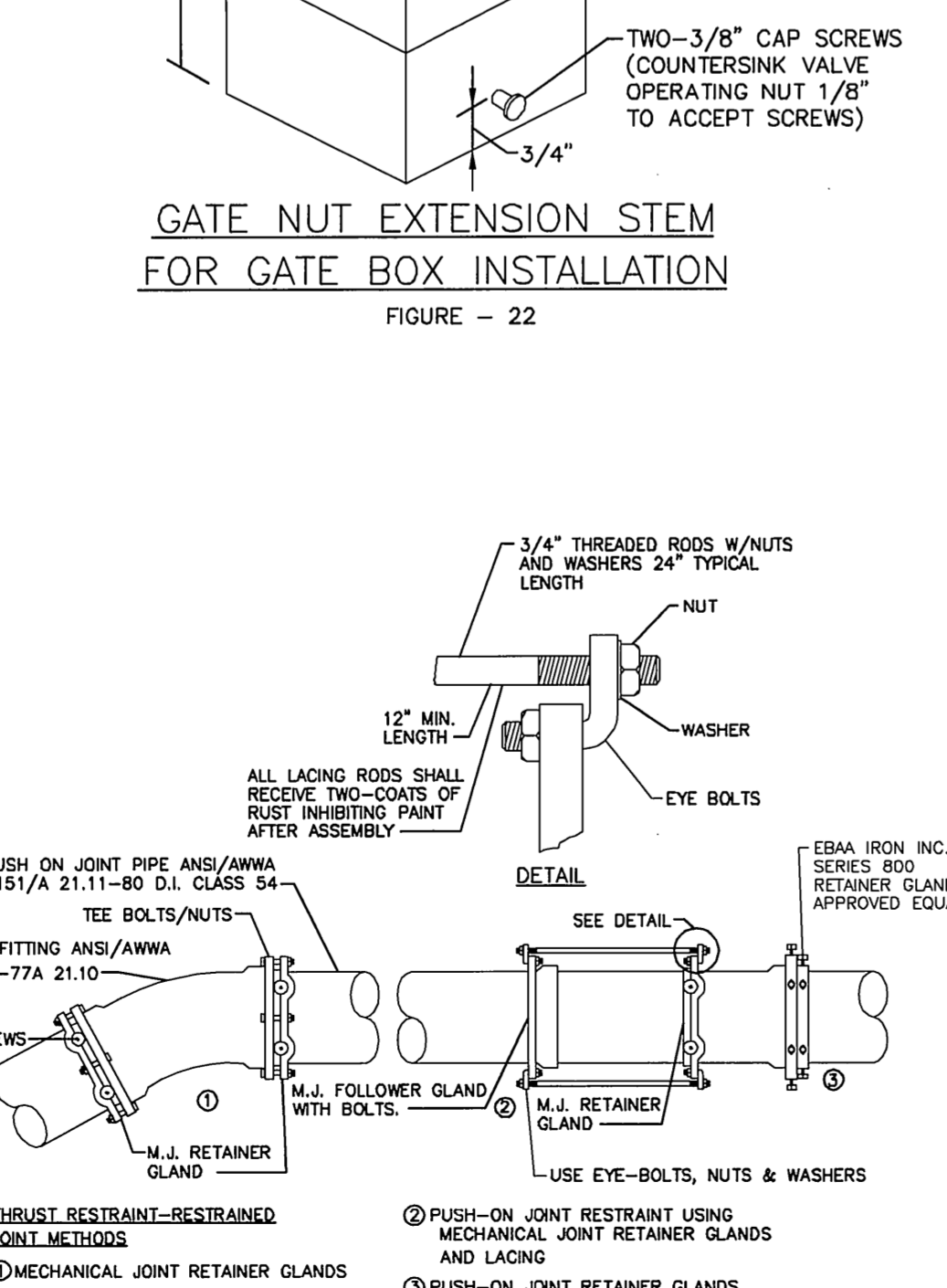
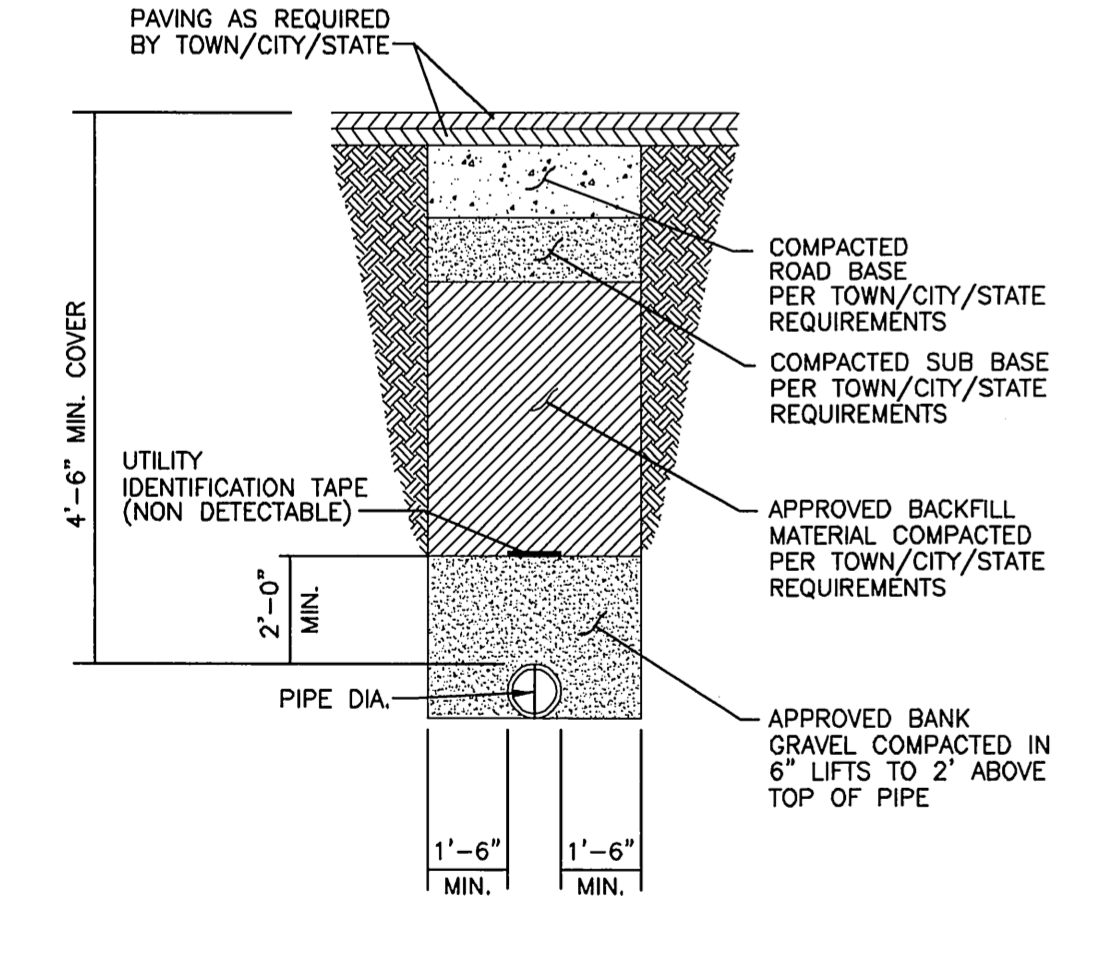
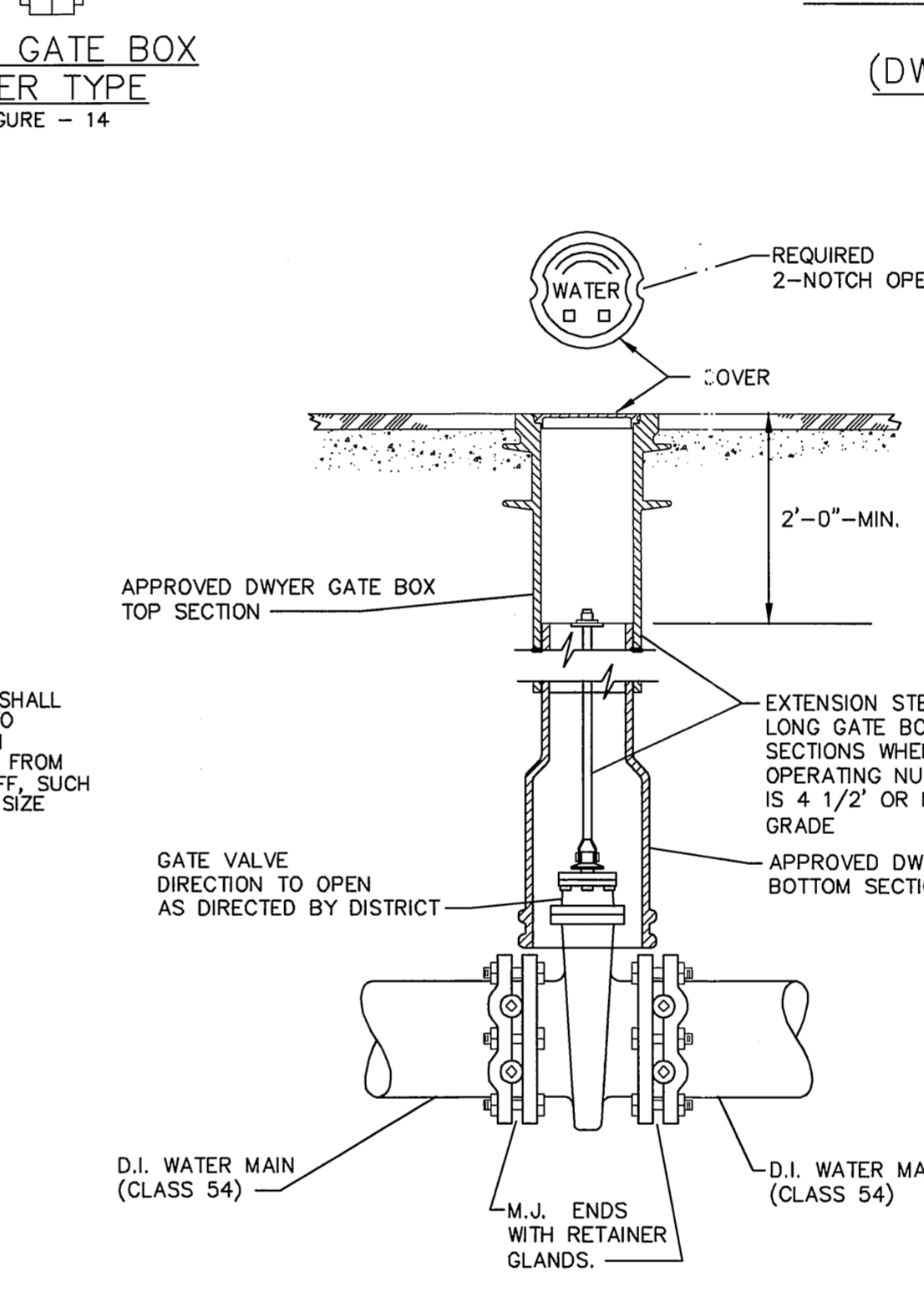
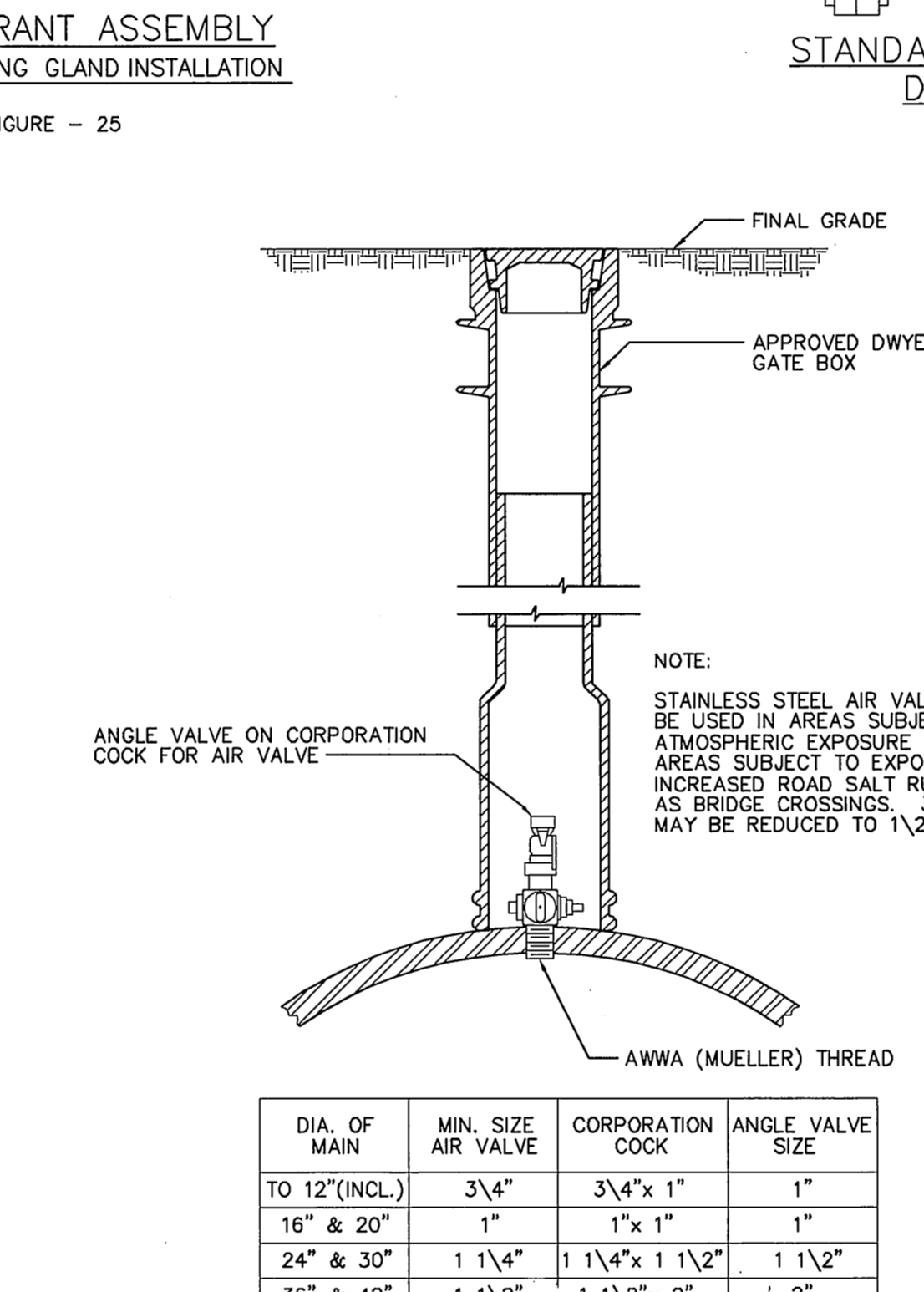
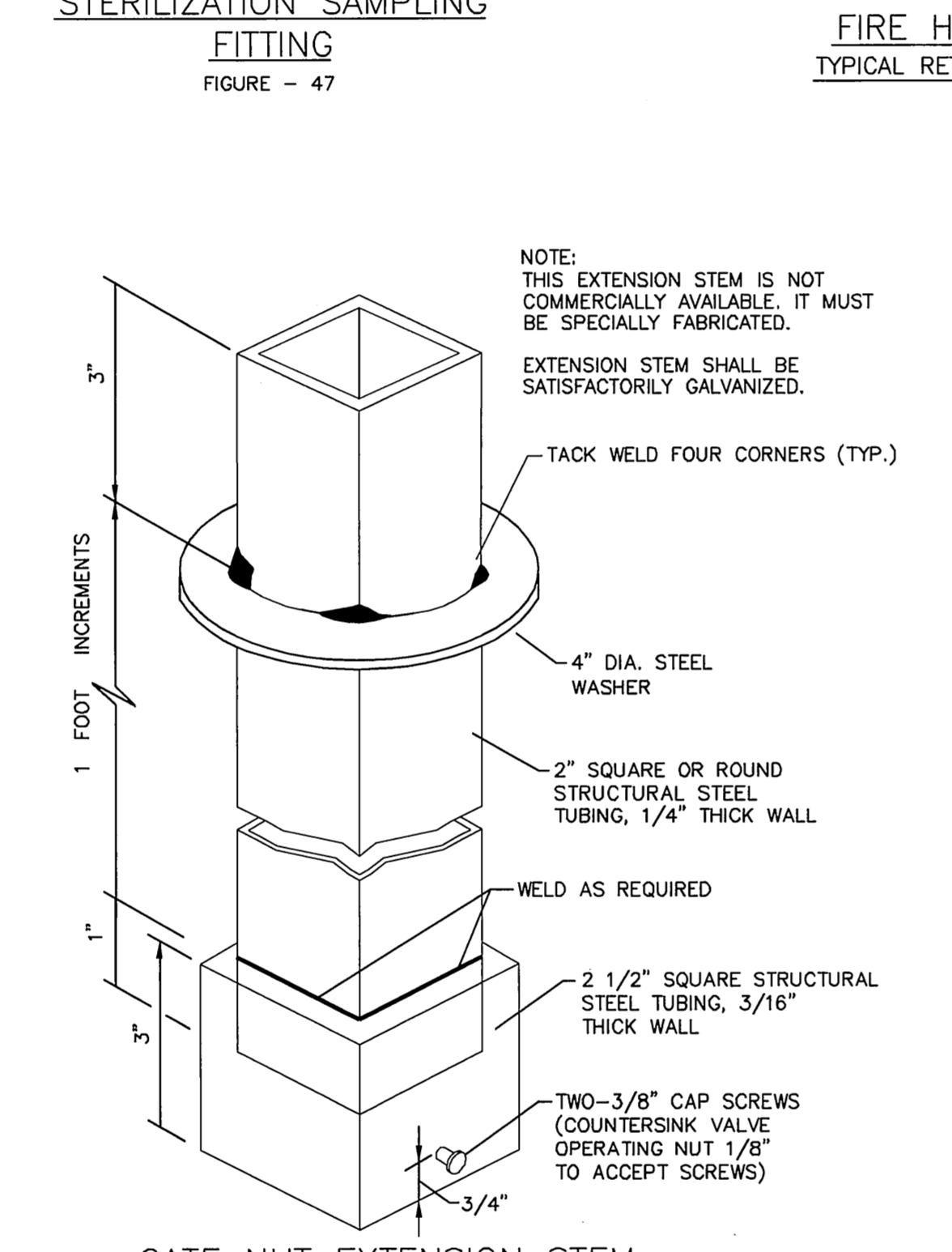
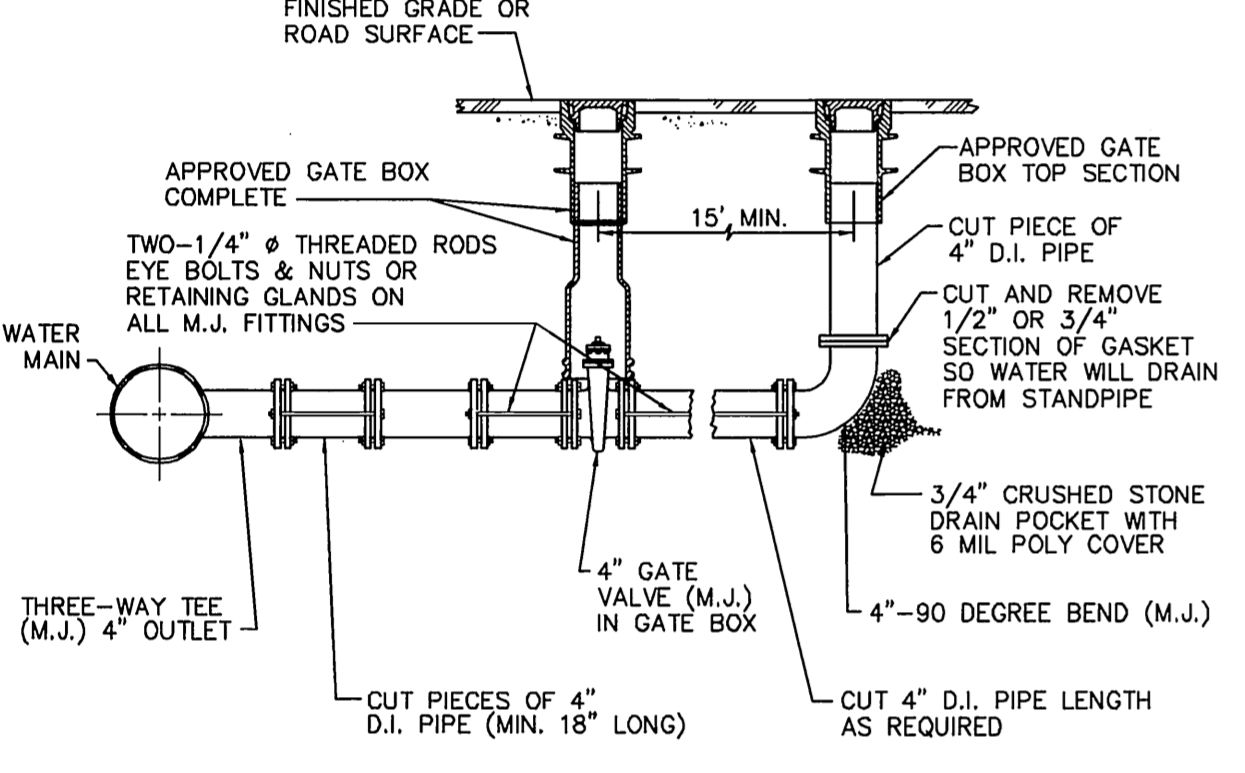
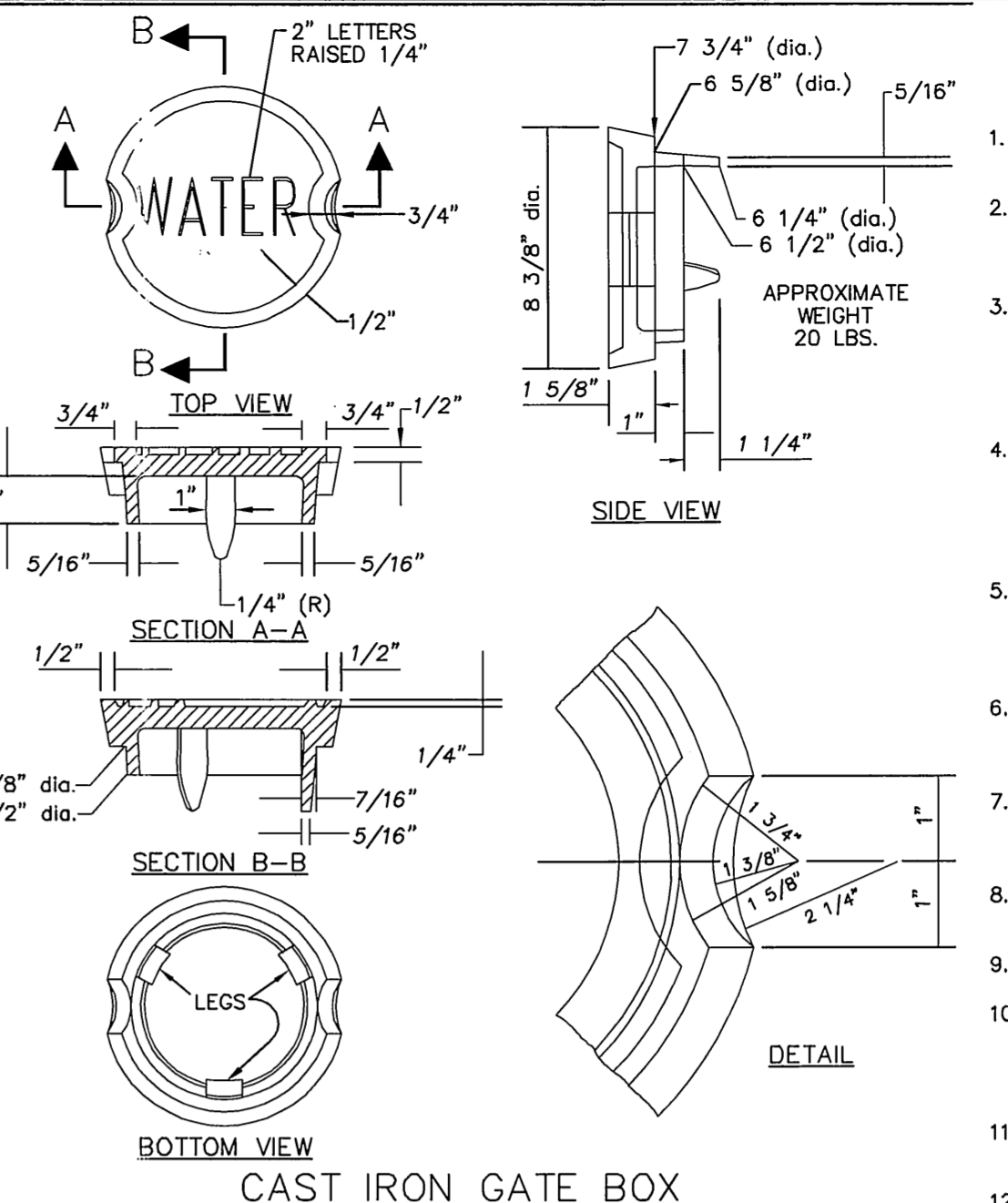
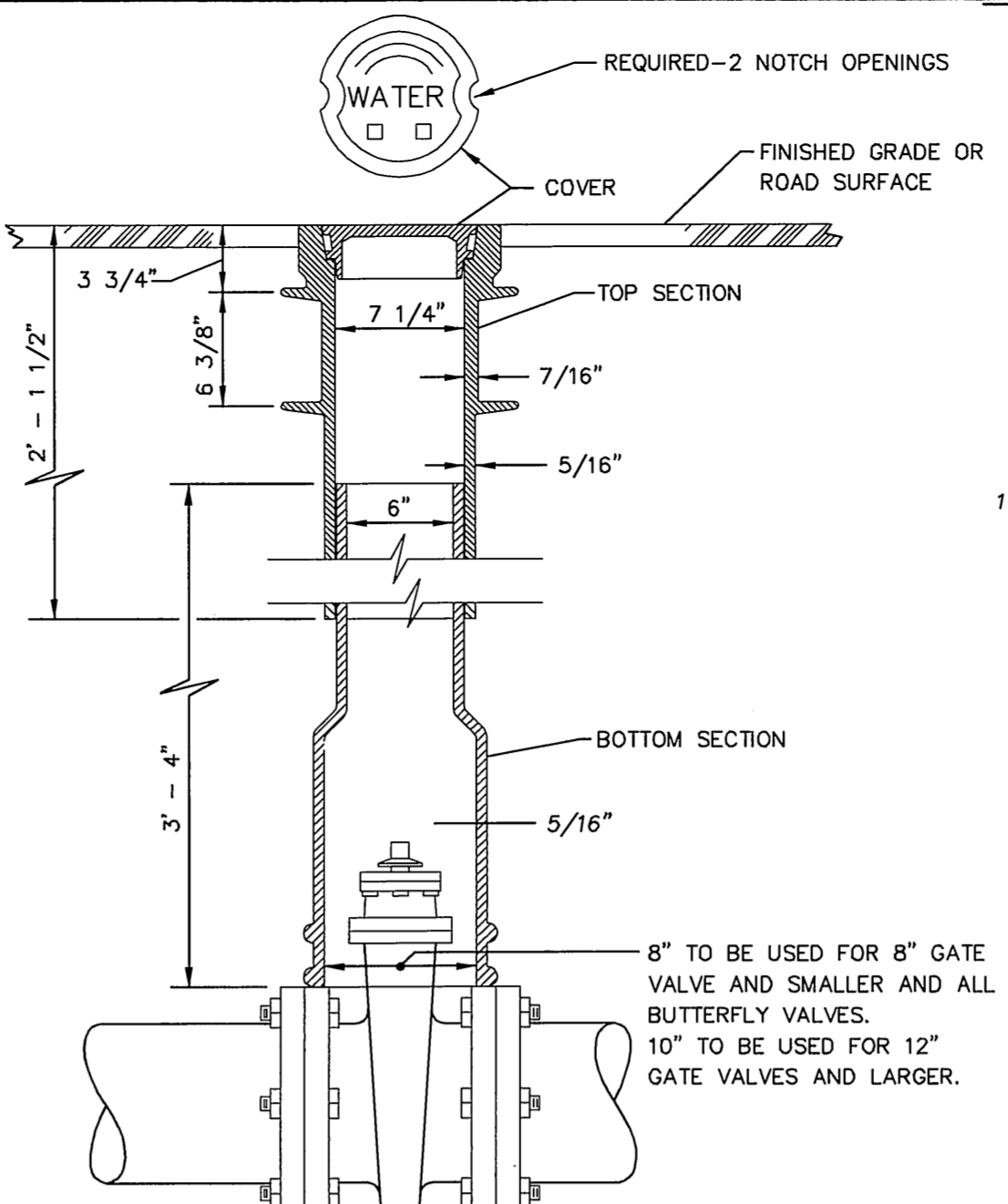
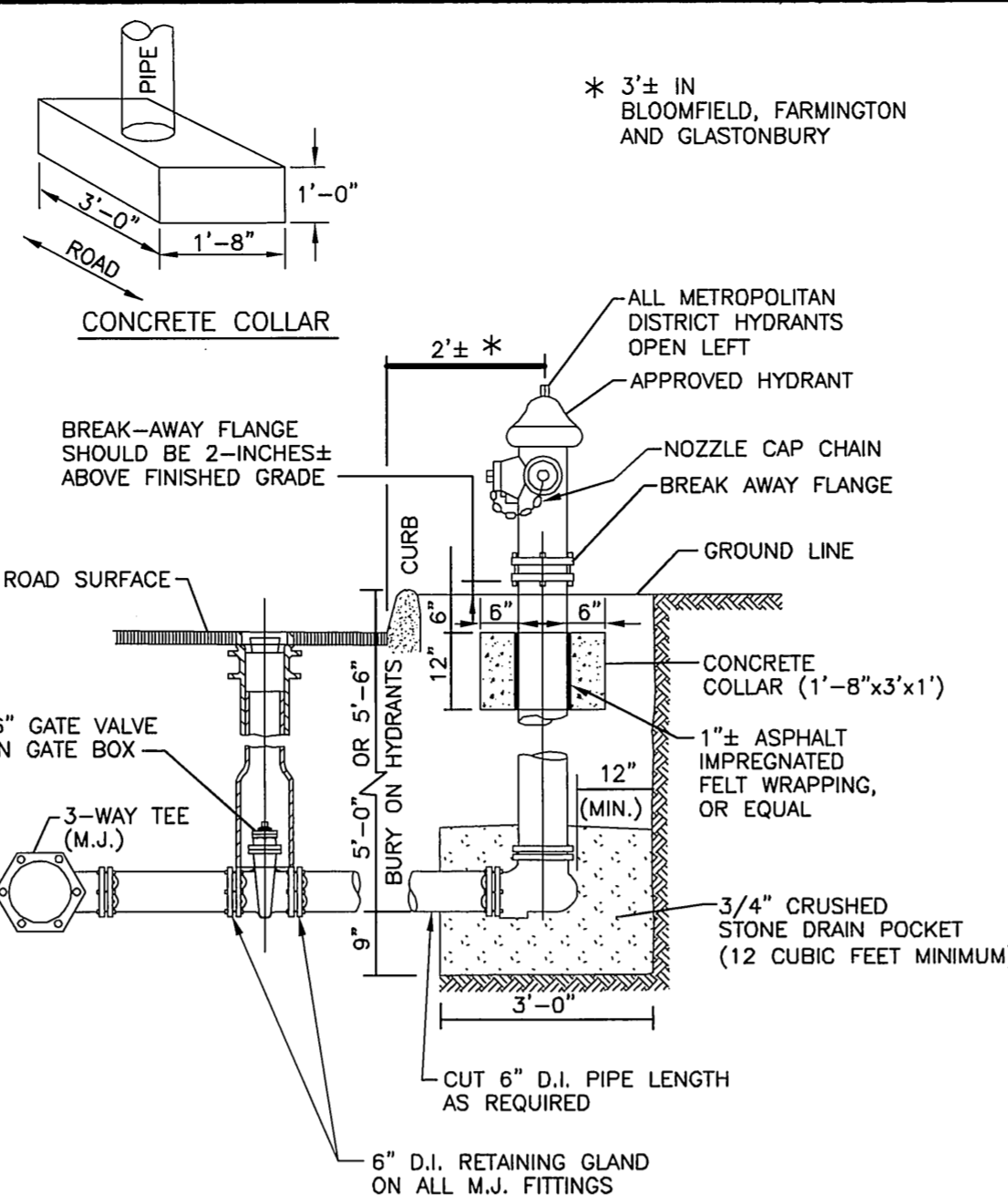
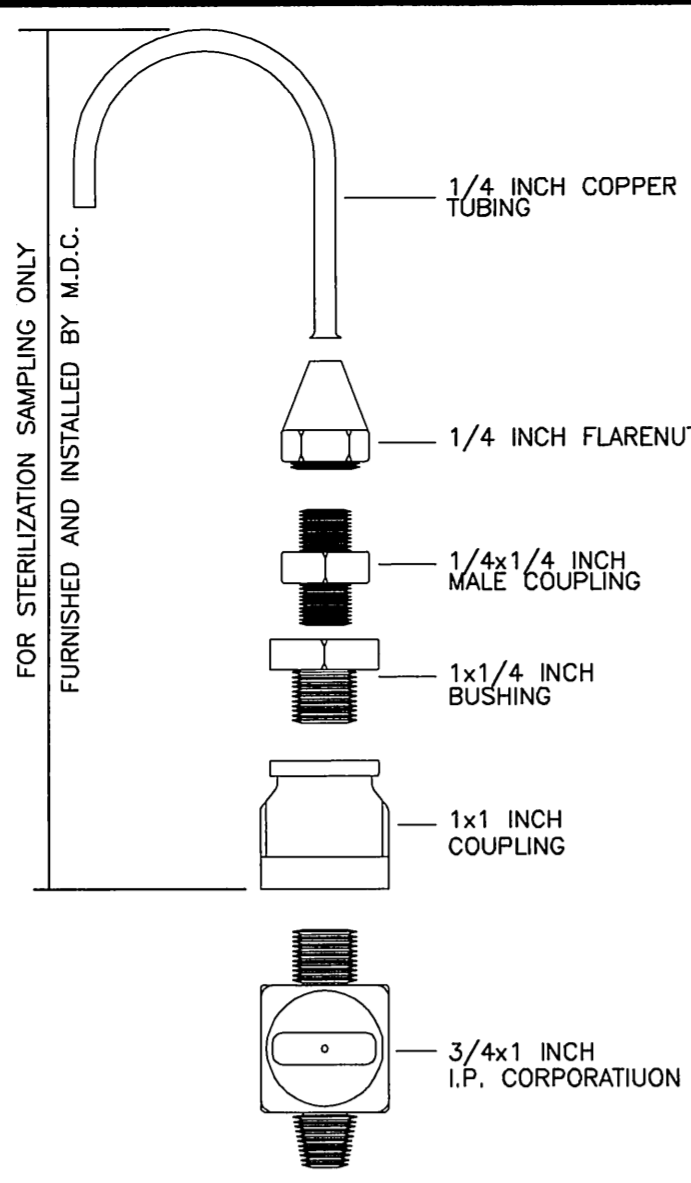
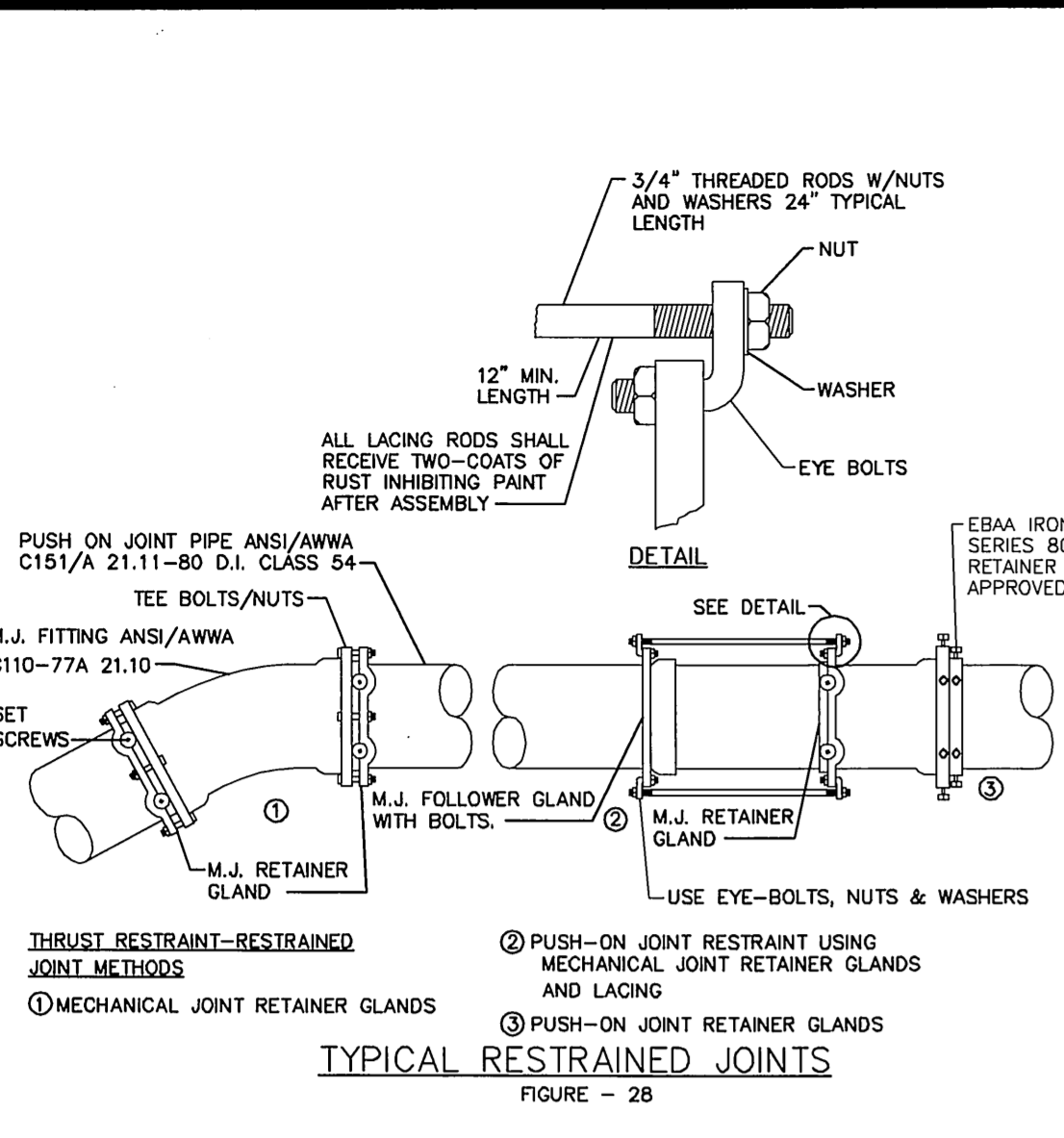
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SCALE:	AS SHOWN	DATE:	
DRAWN BY:	C.F.S.	5/12/2010	
CHECKED BY:	S.M.B.	6/16/2010	
APPROVED BY:	D.A.P.	6/16/2010	
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PLAN & PROFILE  
PROPOSED WATER MAIN  
FOR THE COMPLETION OF  
WESTERN BOULEVARD  
LOCATED BETWEEN  
NATIONAL DRIVE & EASTERN BOULEVARD  
GLASTONBURY, CONNECTICUT



- STANDARD WATER MAIN NOTES FOR DEVELOPER'S PERMIT-AGREEMENT PROJECTS**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH METROPOLITAN DISTRICT STANDARDS AND SPECIFICATIONS.
  - WATER MAIN TO BE INSTALLED IN ACCORDANCE WITH THE METROPOLITAN DISTRICT'S DEVELOPERS MANUAL FOR WATER MAIN DESIGN AND INSTALLATION STANDARDS.
  - THE WATER MAIN SHALL BE CONSTRUCTED UNDER A DEVELOPER'S PERMIT AGREEMENT BETWEEN (NAME AS APPEARS ON CERTIFICATE OF TITLES) AND THE METROPOLITAN DISTRICT AND SHALL BE BUILT BY A LICENSED PLUMBER UNDER PERMIT BY AND UNDER THE SUPERVISION OF THE DIRECTOR OF ENGINEERING AND PLANNING OR THEIR DESIGNEE.
  - "CALL BEFORE YOU DIG" - THE CONTRACTOR IS HEREBY REMINDING THAT TITLE 16, CHAPTER 293 OF THE CONNECTICUT GENERAL STATUTES REQUIRES NOTIFICATION OF THE UTILITY COMPANIES OF PENDING EXCAVATION AT OR NEAR PUBLIC UTILITIES. THE CONTRACTOR SHALL CALL 1-800-922-4455 AT LEAST 48 HOURS PRIOR TO BEGINNING THE EXCAVATION.
  - ALL FEDERAL AND STATE OSHA SAFETY STANDARDS MUST BE FOLLOWED DURING WATER MAIN INSTALLATIONS AND TESTING, INCLUDING 29 CFR 1926.650 - 1926.652, THAT ADDRESS EXCAVATION WORK AND REQUIREMENTS FOR PROTECTIVE SYSTEMS.
  - TEST PITS SHALL BE DUG WELL IN ADVANCE OF THE WATER MAIN INSTALLATION TO DETERMINE POSSIBLE OFFSETS ABOVE OR BELOW OTHER UTILITIES, STRUCTURES OR OBSTACLES.
  - EXTREME CARE MUST BE EXERCISED BY THE CONTRACTOR TO PROTECT EXISTING SANITARY SEWERS, SANITARY SEWER LATERALS, STORM DRAINS AS WELL AS OTHER UTILITIES DURING CONSTRUCTION.
  - THE CONTRACTOR SHALL FURNISH TO THE ENGINEER A MATERIALS LIST, FOR APPROVAL, PRIOR TO THE INSTALLATION OF THE PROPOSED WATER MAIN.
  - ELEVATIONS ARE BASED ON NAVD 1988 DATUM.
  - ALL WATER MAIN AND APPURTENANCES SHALL BE STAKED (SURVEYED) OUT BY A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF CONNECTICUT. THE SURVEY SHALL INCLUDE AN OFFSET LINE OR STREET LINE EVERY FIFTY FEET (50'), FINAL ROAD OR SURFACE ELEVATION.
  - TEST PRESSURE SHALL BE 150 PSI, AS DETERMINED BY THE METROPOLITAN DISTRICT.
  - GATE OPERATIONS FOR THIS PROJECT SHALL BE "OPEN LEFT".
  - HYDRANT LOCATIONS ARE SUBJECT TO THE APPROVAL OF THE TOWN FIRE MARSHAL.
  - MINIMUM DEPTH OF COVER OVER PROPOSED WATER MAIN SHALL BE 4.5 FEET AS MEASURED FROM THE UNDERSIDE OF THE PAVEMENT TO THE TOP OF THE PIPE.
  - ALL WATER MAINS SHALL BE CLASS 54 ANSI/AWWA C151/A21.51-81 DUCTILE IRON PIPE CENTRIFUGALLY CAST IN METAL MOLDS OR SAND LINED MOLDS FOR WATER OR OTHER LIQUIDS.
  - WHERE ROCK IS ENCOUNTERED DURING THE INSTALLATION OF THE PROPOSED WATER MAIN, THE PROPOSED MAIN SHALL BE LAID ON A PRE-COMPACTED BED OF APPROVED MATERIAL A MINIMUM SIX INCHES (6") IN DEPTH.
  - ALL FITTINGS, UNLESS OTHERWISE SPECIFIED, SHALL BE MECHANICAL JOINT AND SHALL BE INSTALLED WITH RESTRAINT IN EACH DIRECTION.
  - WHERE RESTRAINT IS INDICATED, APPROVED RETAINER GLANDS OR RODDING MAY BE UTILIZED.
  - WHERE "PULLING" OR DEFLECTING PIPE IS INDICATED, SUCH DEFLECTION SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE DIPRA HANDBOOK. IN NO CASE SHOULD THE DEFLECTION BE GREATER THAN FIVE DEGREES.
  - ALL GATE VALVES, AIR VALVES AND BLOWOFFS SHALL BE INSTALLED COMPLETE WITH DISTRICT APPROVED GATE BOXES AND APPURTENANCES UNLESS OTHERWISE NOTED.
  - GATE NUT EXTENSION STEMS REQUIRED WHERE GATE VALVE NUTS ARE PLACED AT A DEPTH GREATER THAN 4.5 FEET BELOW FINAL GRADE.
  - CONCRETE COLLARS FOR FIRE HYDRANTS SHALL BE INSTALLED PRIOR TO THE METROPOLITAN DISTRICT PLACING THE WATER MAIN INTO SERVICE.
  - MAINTAIN A MINIMUM DISTANCE OF 10 FEET (10') HORIZONTAL BETWEEN THE WATER MAIN AND ANY EXISTING OR PROPOSED SANITARY SEWER. WHEN LOCAL CONDITIONS PREVENT THIS, A LESSER DISTANCE IS ALLOWED IF (A) THE WATER MAIN IS IN A SEPARATE TRENCH, OR (B) IT IS LOCATED IN THE SAME TRENCH TO ONE SIDE ON A BENCH OF UNDISTURBED EARTH WITH AT LEAST TWELVE INCHES (12"), AND PREFERABLY EIGHTEEN INCHES (18") HORIZONTAL SEPARATION BETWEEN THE EDGES OF THE SEWER PIPE AND THE WATER MAIN. IN EITHER CASE, THE BOTTOM OF THE WATER MAIN SHALL BE EIGHTEEN INCHES ABOVE THE CROWN OF THE SEWER PIPE.
  - WHERE THE WATER MAIN IS TO BE INSTALLED BELOW DRAIN PIPE, MAINTAIN A MINIMUM OF 18 INCHES BETWEEN THE BOTTOM OF STORM DRAIN AND THE CROWN OF THE WATER MAIN.
  - ANY CONFLICT BETWEEN THE PROPOSED WATER MAIN, EXISTING OR PROPOSED UTILITIES AND/OR STORM DRAINS SHALL BE RESOLVED AT THE EXPENSE OF THE DEVELOPER.
  - AFTER PLACING APPROXIMATELY TWO FEET (2') OF BACKFILL MATERIAL OVER THE WATER MAIN, THE CONTRACTOR SHALL PLACE A SIX-INCH WIDE STRIP OF DURABLE, NON-DETECTABLE, COLOR CODED (BLUE FOR WATER) UNDERGROUND UTILITY DETECTION TAPE IMPRINTED WITH THE APPROPRIATE WARNING INDICATING THE PRESENCE OF A BURIED UTILITY CONDUIT.
  - TRENCH BACKFILL UNDER ROADWAYS AND WALKWAYS SHALL BE BANK RUN GRAVEL, SAND, OR ACCEPTABLE NATIVE SOIL SATISFACTORY TO THE TOWN, CITY OR AND/OR STATE AUTHORITY HAVING JURISDICTION.
  - ROADWAYS REQUIRING FILL SHALL HAVE A MINIMUM OF THREE FEET (3') OF ACCEPTABLE FILL PLACED ABOVE THE TOP OF THE PROPOSED PIPE ELEVATION OR TO ESTABLISHED GRADE, AND COMPACTED TO 95% DENSITY PRIOR TO INSTALLATION OF THE SANITARY SEWER.
  - TEMPORARY AND PERMANENT PAVING RESTORATION SHALL BE MADE IN ACCORDANCE WITH DISTRICT AND/OR TOWN AND/OR STATE SPECIFICATIONS.
  - CONTRACTOR SHALL ASSIST THE DISTRICT STAFF WITH THE FILLING, FLUSHING AND TESTING OF THE WATER MAIN. THE CONTRACTOR SHALL ABIDE BY THE DISTRICT'S STANDARDS FOR DISINFECTING WATER MAINS, INCLUDING PROPERLY NEUTRALIZING THE CHLORINATED WATER AND DISCHARGING THE WATER ACCORDINGLY.
  - SHOULD THE WATER MAIN FAIL TO PASS THE REQUIRED PHYSICAL, CHEMICAL AND BIOLOGICAL PARAMETERS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INJECTING THE WATER MAIN WITH THE PROPER QUANTITY OF LIQUID HYPOCHLORITE SOLUTION, AT NO EXPENSE TO THE DISTRICT.
  - APPROVAL FOR THE WATER IS FOR THE MAIN LINE ONLY. INDIVIDUAL PERMITS FOR DOMESTIC AND FIRE SERVICES SHALL BE OBTAINED AT THE CUSTOMER SERVICE DEPARTMENT, 60 MURPHY ROAD, HARTFORD, CONNECTICUT.
- POSSIBLE MONETARY CHARGE IS DUE IN AN AMOUNT BASED UPON PREVAILING RATES IN EFFECT AT THE TIME OF ISSUANCE OF THE WATER SERVICE PERMIT.

MDC CODE: WESTERN BOULEVARD CONNECTOR  
GLASTONBURY

WATER: BILDVWGLA.01

FOR WATER MAIN ACKNOWLEDGEMENT

DEVELOPER: \_\_\_\_\_ DATE: \_\_\_\_\_

TOWN ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_

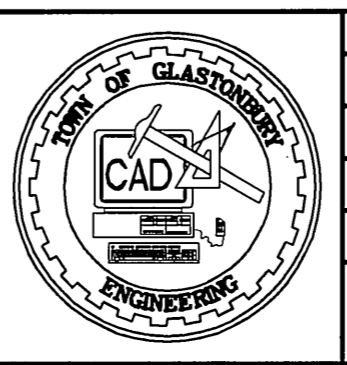
FIRE HYDRANT APPROVAL

FIRE MARSHAL: \_\_\_\_\_ DATE: \_\_\_\_\_

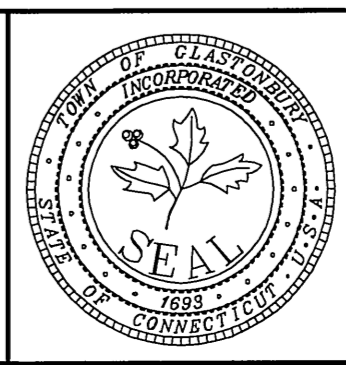
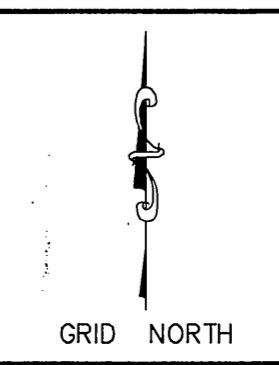
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PW-0920



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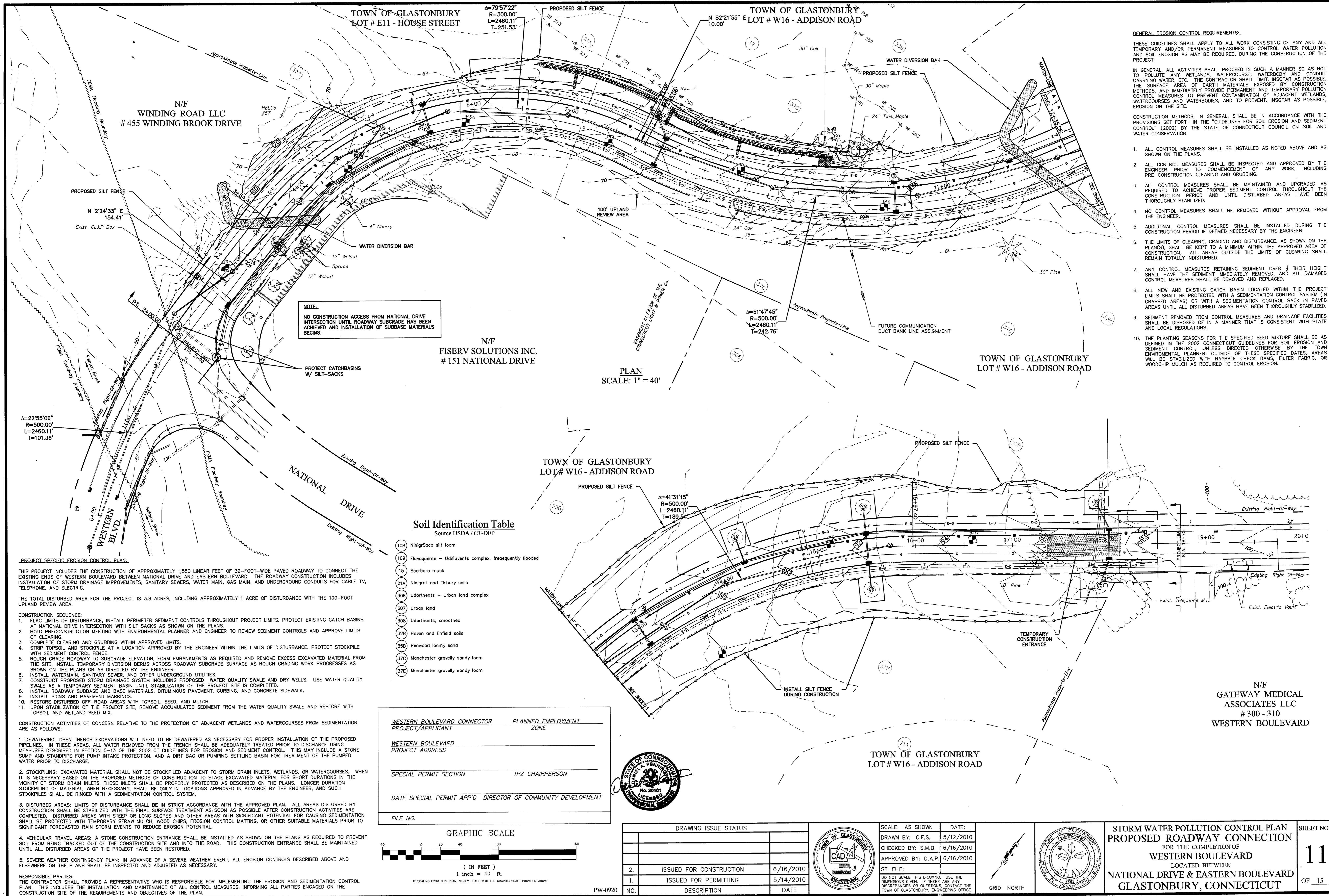


PRELIMINARY

TYPICAL WATER DETAILS FOR PROPOSED WATER MAIN FOR THE COMPLETION OF WESTERN BOULEVARD LOCATED BETWEEN NATIONAL DRIVE & EASTERN BOULEVARD GLASTONBURY, CONNECTICUT

SHEET NO. 10 OF 15

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**GENERAL EROSION CONTROL REQUIREMENTS:**  
 THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.  
 IN GENERAL, ALL ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATERBODY AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT, INsofar AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS, AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES AND WATERBODIES, AND TO PREVENT, INsofar AS POSSIBLE, EROSION ON THE SITE.  
 CONSTRUCTION METHODS, IN GENERAL, SHALL BE IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (2002) BY THE STATE OF CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION.

1. ALL CONTROL MEASURES SHALL BE INSTALLED AS NOTED ABOVE AND AS SHOWN ON THE PLANS.
2. ALL CONTROL MEASURES SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF ANY WORK, INCLUDING PRE-CONSTRUCTION CLEARING AND GRUBBING.
3. ALL CONTROL MEASURES SHALL BE MAINTAINED AND UPGRADED AS REQUIRED TO ACHIEVE PROPER SEDIMENT CONTROL THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL DISTURBED AREAS HAVE BEEN THOROUGHLY STABILIZED.
4. NO CONTROL MEASURES SHALL BE REMOVED WITHOUT APPROVAL FROM THE ENGINEER.
5. ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD IF DEEMED NECESSARY BY THE ENGINEER.
6. THE LIMITS OF CLEARING, GRADING AND DISTURBANCE, AS SHOWN ON THE PLAN(S), SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE THE LIMITS OF CLEARING SHALL REMAIN TOTALLY UNDISTURBED.
7. ANY CONTROL MEASURES RETAINING SEDIMENT OVER 1/2 THEIR HEIGHT SHALL HAVE THE SEDIMENT IMMEDIATELY REMOVED, AND ALL DAMAGED CONTROL MEASURES SHALL BE REMOVED AND REPLACED.
8. ALL NEW AND EXISTING CATCH BASIN LOCATED WITHIN THE PROJECT LIMITS SHALL BE PROTECTED WITH A SEDIMENTATION CONTROL SYSTEM (IN GRASSED AREAS) OR WITH A SEDIMENTATION CONTROL SACK IN PAVED AREAS UNTIL ALL DISTURBED AREAS HAVE BEEN THOROUGHLY STABILIZED.
9. SEDIMENT REMOVED FROM CONTROL MEASURES AND DRAINAGE FACILITIES SHALL BE DISPOSED OF IN A MANNER THAT IS CONSISTENT WITH STATE AND LOCAL REGULATIONS.
10. THE PLANTING SEASONS FOR THE SPECIFIED SEED MIXTURE SHALL BE AS DEFINED IN THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, UNLESS DIRECTED OTHERWISE BY THE TOWN ENVIRONMENTAL PLANNER. OUTSIDE OF THESE SPECIFIED DATES, AREAS WILL BE STABILIZED WITH HAYBALE CHECK DAMS, FILTER FABRIC, OR WOODCHIP MULCH AS REQUIRED TO CONTROL EROSION.

**NOTE:**  
 NO CONSTRUCTION ACCESS FROM NATIONAL DRIVE INTERSECTION UNTIL ROADWAY SUBGRADE HAS BEEN ACHIEVED AND INSTALLATION OF SUBBASE MATERIALS BEGINS.

PROTECT CATCHBASINS W/ SILT-SACKS

**Soil Identification Table**  
 Source USDA / CT-DEP

- (108) NinigSaco silt loam
- (109) Fluvaquents - Udifluvents complex, frequently flooded
- (15) Scarborough muck
- (21A) Ninigret and Tisbury soils
- (306) Udothents - Urban land complex
- (307) Urban land
- (308) Udothents, smoothed
- (32B) Haven and Enfield soils
- (35B) Penwood loamy sand
- (37C) Manchester gravelly sandy loam
- (37E) Manchester gravelly sandy loam

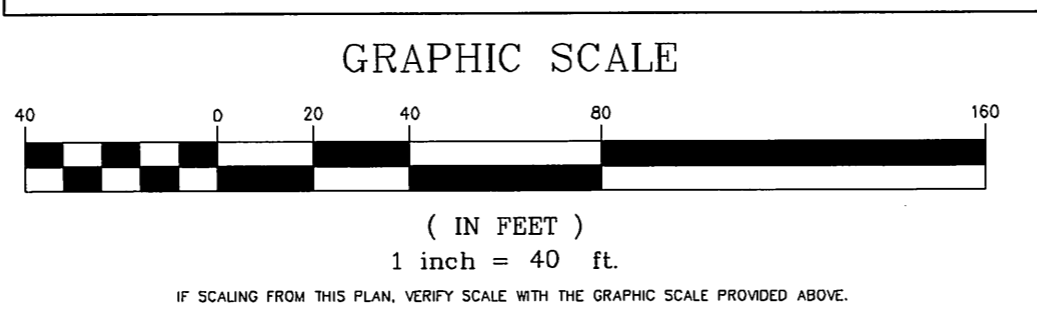
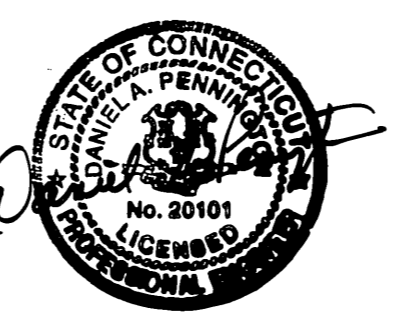
WESTERN BOULEVARD CONNECTOR PROJECT/APPLICANT \_\_\_\_\_ PLANNED EMPLOYMENT ZONE \_\_\_\_\_

WESTERN BOULEVARD PROJECT ADDRESS \_\_\_\_\_

SPECIAL PERMIT SECTION \_\_\_\_\_ TPZ CHAIRPERSON \_\_\_\_\_

DATE SPECIAL PERMIT APP'D \_\_\_\_\_ DIRECTOR OF COMMUNITY DEVELOPMENT \_\_\_\_\_

FILE NO. \_\_\_\_\_



**PROJECT SPECIFIC EROSION CONTROL PLAN:**  
 THIS PROJECT INCLUDES THE CONSTRUCTION OF APPROXIMATELY 1,550 LINEAR FEET OF 32-FOOT-WIDE PAVED ROADWAY TO CONNECT THE EXISTING ENDS OF WESTERN BOULEVARD BETWEEN NATIONAL DRIVE AND EASTERN BOULEVARD. THE ROADWAY CONSTRUCTION INCLUDES INSTALLATION OF STORM DRAINAGE IMPROVEMENTS, SANITARY SEWERS, WATER MAIN, GAS MAIN, AND UNDERGROUND CONDUITS FOR CABLE TV, TELEPHONE, AND ELECTRIC.  
 THE TOTAL DISTURBED AREA FOR THE PROJECT IS 3.8 ACRES, INCLUDING APPROXIMATELY 1 ACRE OF DISTURBANCE WITH THE 100-FOOT UPLAND REVIEW AREA.

**CONSTRUCTION SEQUENCE:**

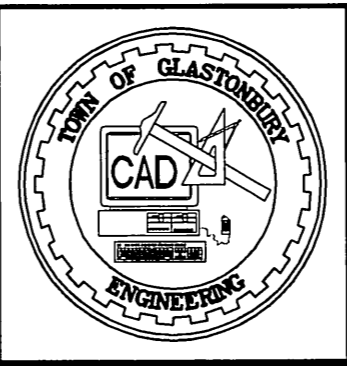
1. FLAG LIMITS OF DISTURBANCE, INSTALL PERIMETER SEDIMENT CONTROLS THROUGHOUT PROJECT LIMITS. PROTECT EXISTING CATCH BASINS AT NATIONAL DRIVE INTERSECTION WITH SILT SACKS AS SHOWN ON THE PLANS.
2. HOLD PRECONSTRUCTION MEETING WITH ENVIRONMENTAL PLANNER AND ENGINEER TO REVIEW SEDIMENT CONTROLS AND APPROVE LIMITS OF CLEARING.
3. COMPLETE CLEARING AND GRUBBING WITHIN APPROVED LIMITS.
4. STRIP TOPSOIL AND STOCKPILE AT A LOCATION APPROVED BY THE ENGINEER WITHIN THE LIMITS OF DISTURBANCE. PROTECT STOCKPILE WITH SEDIMENT CONTROL FENCE.
5. ROUGH GRADE ROADWAY TO SUBGRADE ELEVATION, FORM EMBANKMENTS AS REQUIRED AND REMOVE EXCESS EXCAVATED MATERIAL FROM THE SITE. INSTALL TEMPORARY DIVERSION BERMS ACROSS ROADWAY SUBGRADE SURFACE AS ROUGH GRADING WORK PROGRESSES AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
6. INSTALL WATERMAIN, SANITARY SEWER, AND OTHER UNDERGROUND UTILITIES.
7. CONSTRUCT PROPOSED STORM DRAINAGE SYSTEM INCLUDING PROPOSED WATER QUALITY SWALE AND DRY WELLS. USE WATER QUALITY SWALE AS A TEMPORARY SEDIMENT BASIN UNTIL STABILIZATION OF THE PROJECT SITE IS COMPLETED.
8. INSTALL ROADWAY SUBBASE AND BASE MATERIALS, BITUMINOUS PAVEMENT, CURBING, AND CONCRETE SIDEWALK.
9. INSTALL SIGNS AND PAVEMENT MARKINGS.
10. RESTORE DISTURBED OFF-ROAD AREAS WITH TOPSOIL, SEED, AND MULCH.
11. UPON STABILIZATION OF THE PROJECT SITE, REMOVE ACCUMULATED SEDIMENT FROM THE WATER QUALITY SWALE AND RESTORE WITH TOPSOIL AND WETLAND SEED MIX.

**CONSTRUCTION ACTIVITIES OF CONCERN RELATIVE TO THE PROTECTION OF ADJACENT WETLANDS AND WATERCOURSES FROM SEDIMENTATION ARE AS FOLLOWS:**

1. DEWATERING: OPEN TRENCH EXCAVATIONS WILL NEED TO BE DEWATERED AS NECESSARY FOR PROPER INSTALLATION OF THE PROPOSED PIPELINES. IN THESE AREAS, ALL WATER REMOVED FROM THE TRENCH SHALL BE ADEQUATELY TREATED PRIOR TO DISCHARGE USING MEASURES DESCRIBED IN SECTION 5-13 OF THE 2002 CT GUIDELINES FOR EROSION AND SEDIMENT CONTROL. THIS MAY INCLUDE A STONE SUMP AND STANDPIPE FOR PUMP INTAKE PROTECTION, AND A DIRT BAG OR PUMPING SETTLING BASIN FOR TREATMENT OF THE PUMPED WATER PRIOR TO DISCHARGE.
2. STOCKPILING: EXCAVATED MATERIAL SHALL NOT BE STOCKPILED ADJACENT TO STORM DRAIN INLETS, WETLANDS, OR WATERCOURSES. WHEN IT IS NECESSARY BASED ON THE PROPOSED METHODS OF CONSTRUCTION TO STAGE EXCAVATED MATERIAL FOR SHORT DURATIONS IN THE VICINITY OF STORM DRAIN INLETS, THESE INLETS SHALL BE PROPERLY PROTECTED AS DESCRIBED ON THE PLANS. LONGER DURATION STOCKPILING OF MATERIAL, WHEN NECESSARY, SHALL BE ONLY IN LOCATIONS APPROVED IN ADVANCE BY THE ENGINEER, AND SUCH STOCKPILES SHALL BE RINGED WITH A SEDIMENTATION CONTROL SYSTEM.
3. DISTURBED AREAS: LIMITS OF DISTURBANCE SHALL BE IN STRICT ACCORDANCE WITH THE APPROVED PLAN. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH THE FINAL SURFACE TREATMENT AS SOON AS POSSIBLE AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED. DISTURBED AREAS WITH STEEP OR LONG SLOPES AND OTHER AREAS WITH EROSION POTENTIAL FOR CAUSING SEDIMENTATION SHALL BE PROTECTED WITH TEMPORARY STRAW MULCH, WOOD CHIPS, EROSION CONTROL MATTING, OR OTHER SUITABLE MATERIALS PRIOR TO SIGNIFICANT FORECASTED RAIN STORM EVENTS TO REDUCE EROSION POTENTIAL.
4. VEHICULAR TRAVEL AREAS: A STONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SHOWN ON THE PLANS AS REQUIRED TO PREVENT SOIL FROM BEING TRACKED OUT OF THE CONSTRUCTION SITE AND INTO THE ROAD. THIS CONSTRUCTION ENTRANCE SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS OF THE PROJECT HAVE BEEN RESTORED.
5. SEVERE WEATHER CONTINGENCY PLAN: IN ADVANCE OF A SEVERE WEATHER EVENT, ALL EROSION CONTROLS DESCRIBED ABOVE AND ELSEWHERE ON THE PLANS SHALL BE INSPECTED AND ADJUSTED AS NECESSARY.

**RESPONSIBLE PARTIES:**  
 THE CONTRACTOR SHALL PROVIDE A REPRESENTATIVE WHO IS RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENTATION CONTROL PLAN. THIS INCLUDES THE INSTALLATION AND MAINTENANCE OF ALL CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN.

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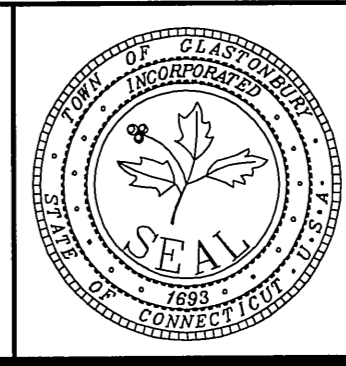
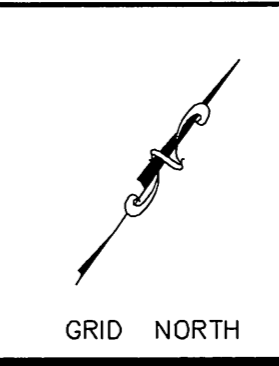
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CHECKED BY: S.M.B. 6/16/2010

APPROVED BY: D.A.P. 6/16/2010

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**STORM WATER POLLUTION CONTROL PLAN**  
**PROPOSED ROADWAY CONNECTION**  
 FOR THE COMPLETION OF  
**WESTERN BOULEVARD**  
 LOCATED BETWEEN  
**NATIONAL DRIVE & EASTERN BOULEVARD**  
**GLASTONBURY, CONNECTICUT**

SHEET NO. **11** OF 15



**Town of Glastonbury**

2155 MAIN STREET • P.O. BOX 6523 • GLASTONBURY, CONNECTICUT 06033-6523

TOWN PLAN AND ZONING COMMISSION

ROAD DESIGN AND CONSTRUCTION

APPLICANT: TOWN OF GLASTONBURY

FOR: WESTERN BOULEVARD CONNECTION

MOVED, that the Town Plan and Zoning Commission approve the application of the Town of Glastonbury for design and construction of a Town road - Western Boulevard westerly expansion and connection - Planned Employment Zone, in accordance with the following plans:

"TITLE SHEET PROPOSED ROADWAY CONNECTION FOR THE COMPLETION OF WESTERN BOULEVARD LOCATED BETWEEN NATIONAL DRIVE & EASTERN BOULEVARD GLASTONBURY, CONNECTICUT TOWN OF GLASTONBURY ENGINEERING SHEET NO. 1 OF 15 SCALE: AS SHOWN DRAWN BY: C.F.S. CHECKED BY: S.M.B. APPROVED BY: D.A.P. DATE: 5/12/2010 DRAWING ISSUE STATUS NO.1 ISSUED FOR PERMITTING 5/14/2010 PW-0920"

"PLAN & PROFILE PROPOSED ROADWAY CONNECTION FOR THE COMPLETION OF WESTERN BOULEVARD LOCATED BETWEEN NATIONAL DRIVE & EASTERN BOULEVARD GLASTONBURY, CONNECTICUT TOWN OF GLASTONBURY ENGINEERING SHEET NO. 2 OF 15 SCALE: AS SHOWN DRAWN BY: C.F.S. CHECKED BY: S.M.B. APPROVED BY: D.A.P. DATE: 5/12/2010 DRAWING ISSUE STATUS NO.1 ISSUED FOR PERMITTING 5/14/2010 PW-0920"

"PLAN & PROFILE PROPOSED ROADWAY CONNECTION FOR THE COMPLETION OF WESTERN BOULEVARD LOCATED BETWEEN NATIONAL DRIVE & EASTERN BOULEVARD GLASTONBURY, CONNECTICUT TOWN OF GLASTONBURY ENGINEERING SHEET NO. 3 OF 15 SCALE: AS SHOWN DRAWN BY: C.F.S. CHECKED BY: S.M.B. APPROVED BY: D.A.P. DATE: 5/12/2010 DRAWING ISSUE STATUS NO.1 ISSUED FOR PERMITTING 5/14/2010 PW-0920"

"STORM WATER POLLUTION CONTROL PLAN PROPOSED ROADWAY CONNECTION FOR THE COMPLETION OF WESTERN BOULEVARD LOCATED BETWEEN NATIONAL DRIVE & EASTERN BOULEVARD GLASTONBURY, CONNECTICUT TOWN OF GLASTONBURY ENGINEERING SHEET NO. 11 OF 15 SCALE: AS SHOWN DRAWN BY: C.F.S. CHECKED BY: S.M.B. APPROVED BY: D.A.P. DATE: 5/12/2010 DRAWING ISSUE STATUS NO.1 ISSUED FOR PERMITTING 5/14/2010 PW-0920"

"STORM WATER POLLUTION CONTROL TYPICAL DETAILS & NOTES FOR PROPOSED ROADWAY CONNECTION FOR THE COMPLETION OF WESTERN BOULEVARD LOCATED BETWEEN NATIONAL DRIVE & EASTERN BOULEVARD

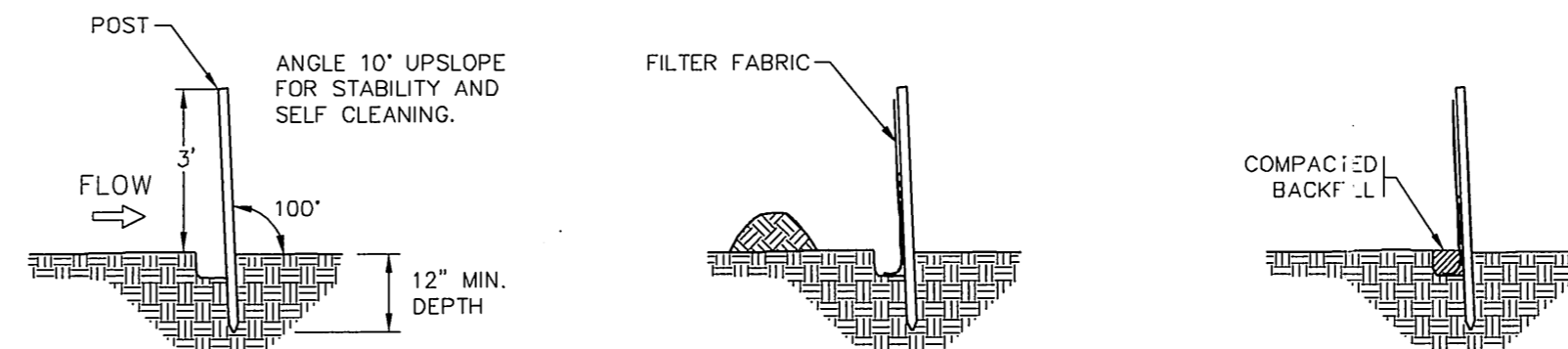
GLASTONBURY, CONNECTICUT TOWN OF GLASTONBURY ENGINEERING SHEET NO. 12 OF 15 SCALE: AS SHOWN DRAWN BY: C.F.S. CHECKED BY: S.M.B. APPROVED BY: D.A.P. DATE: 5/12/2010 DRAWING ISSUE STATUS NO.1 ISSUED FOR PERMITTING 5/14/2010 PW-0920"

and in compliance with the following conditions:

1. Healthy mature trees shall be preserved and saved when possible. Said trees shall be protected with the use of high visibility construction fence during construction or otherwise protected as required by staff.
2. Installation of soil erosion and sedimentation control and stabilization measures shall be the Permittee's responsibility. Once installed these measures shall then be inspected by the Environmental Planner prior to land disturbance activities. Afterwards it then shall be the Permittee's responsibility to inspect these control measures during, and immediately following, substantial storm events and maintain and/or replace the control measures, when needed, on a regular basis until the site is vegetatively stabilized. Hay bales shall be replaced every 60 days. The Environmental Planner is hereby authorized to require additional soil erosion and sediment controls and stabilization measures to address situations that arise on the site.
3. Tree stumps and blasted rock material shall not be buried at the site.
4. Topsoil stockpile areas shall not be permitted within the regulated area.
5. Metal waste containers shall be provided at the site to facilitate the collection of refuse material generated from construction activities. Such material shall not be buried or burned at the site.
6. Disturbed land areas shall be loamed, limed, fertilized and seeded as soon as practical in order to permanently stabilize such areas. The proposed wet swale to serve as a water quality management practice shall be seeded with a specialized seed mix as directed by the Environmental Planner.
7. The Permittee shall be fully responsible for damages caused by all activities undertaken pursuant to this permit that may have a detrimental effect on wetlands and/or watercourses, and all such activities that cause erosion and sedimentation problems.

APPROVED: TOWN PLAN & ZONING COMMISSION  
JUNE 1, 2010

SHARON M. JAGEL, CHAIRMAN

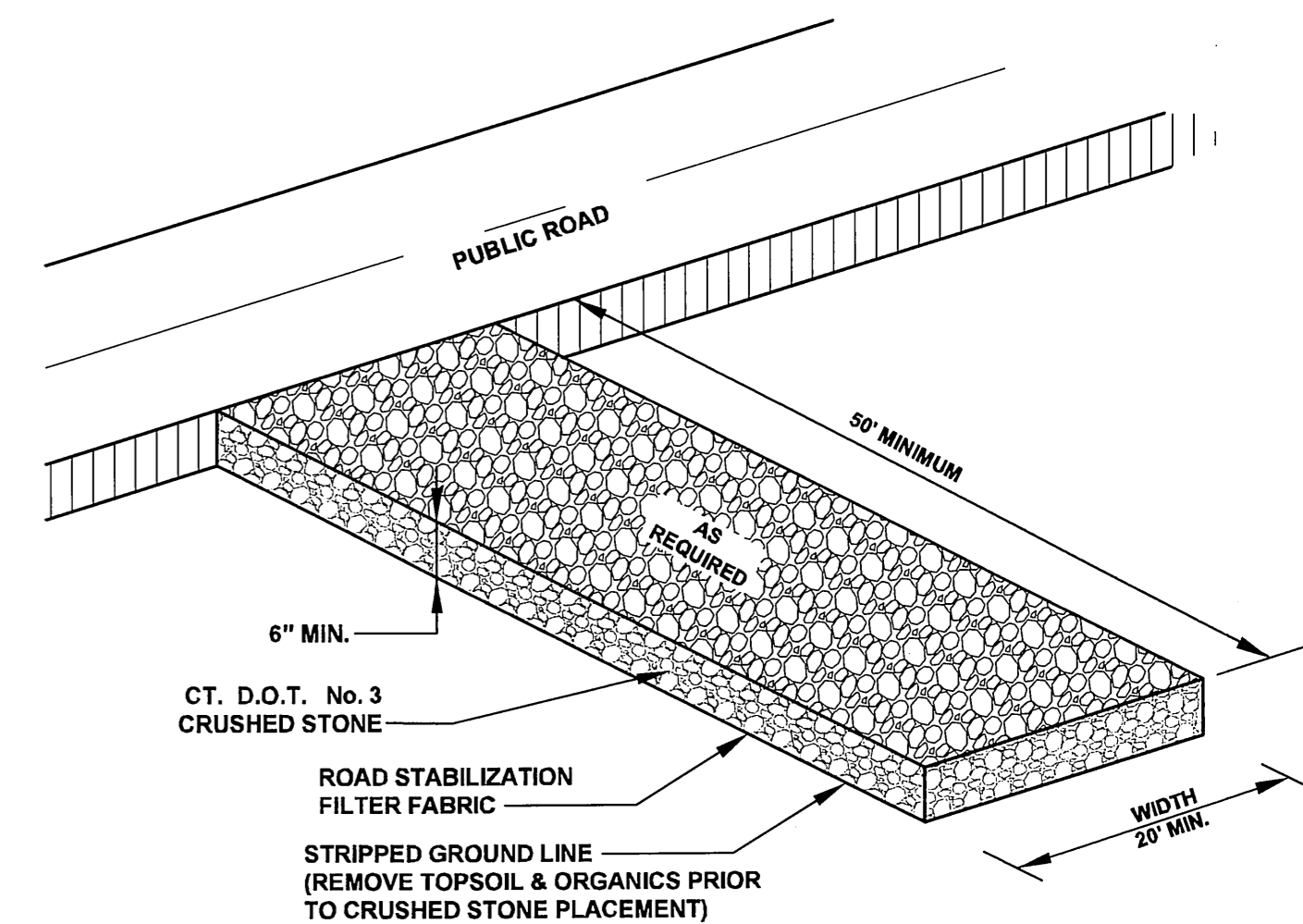


1. SET POSTS AND EXCAVATE A 6"x6" TRENCH. SET POST DOWNSLOPE.
2. ATTACH FILTER FABRIC FENCING TO POST AND EXTEND IT TO THE TRENCH BOTTOM.
3. BACKFILL THE TRENCH AND COMPACT THE EXCAVATED SOIL.

- NOTES:
1. THE BARRIER SHALL BE CONSTRUCTED SO WATER CANNOT PASS AROUND THE ENDS.
  2. REPAIR OR REPLACE PROMPTLY AS NEEDED.
  3. THE BARRIER SHALL BE COMPLETELY REMOVE WHEN IT HAS SERVED ITS USEFULNESS UNLESS OTHERWISE NOTED.

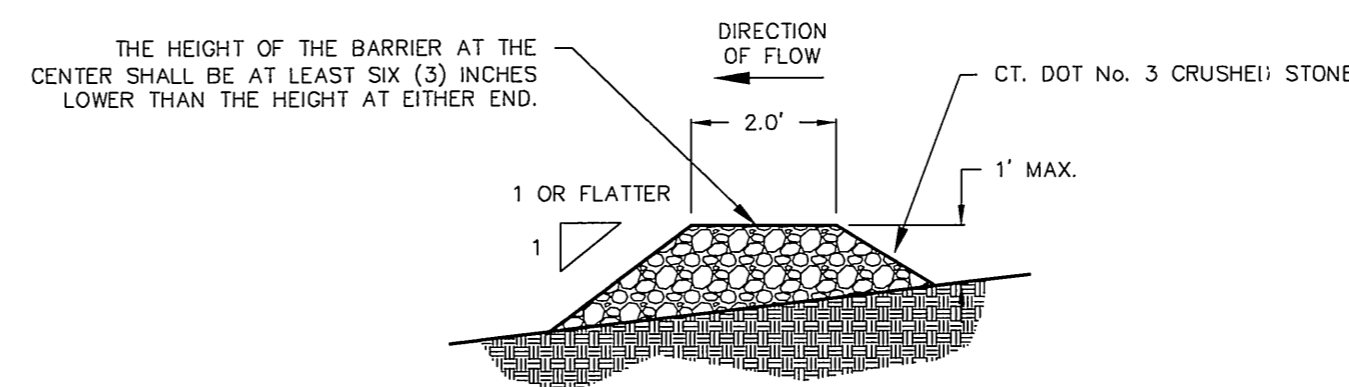
**PLACEMENT & CONSTRUCTION OF SYNTHETIC FILTER BARRIER**

NOT TO SCALE



**ANTI-TRACKING PAD CONSTRUCTION ENTRANCE**

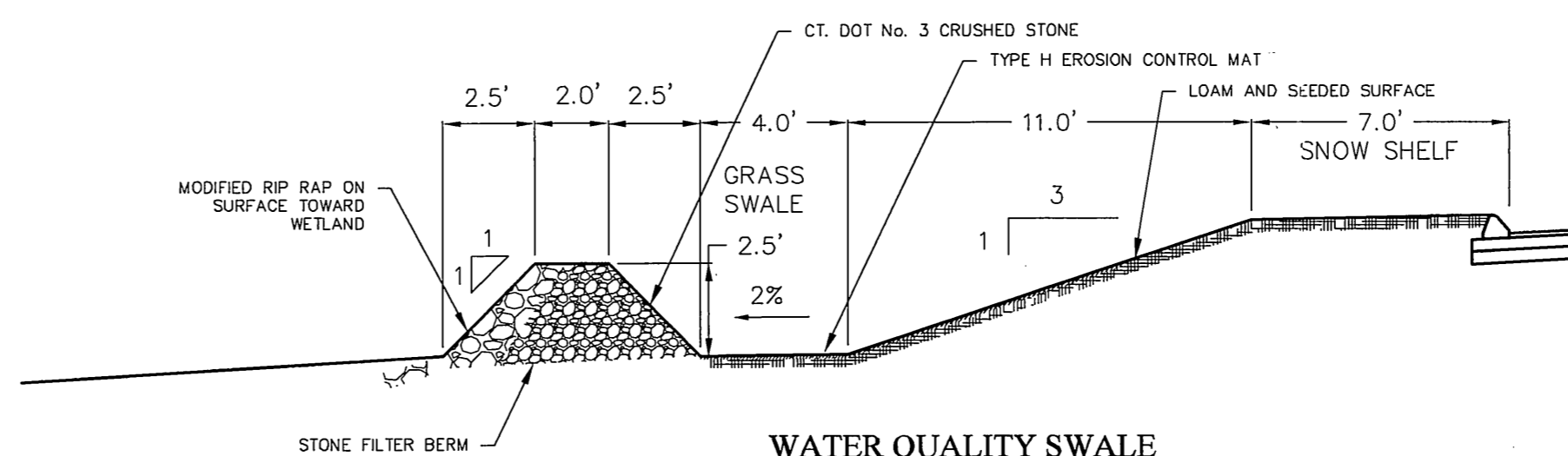
NOT TO SCALE



- NOTES:
1. THE BARRIER SHALL BE CONSTRUCTED SO WATER CANNOT PASS AROUND THE ENDS.
  2. REPAIR OR REPLACE PROMPTLY AS NEEDED.
  3. THE BARRIER SHALL BE COMPLETELY REMOVE WHEN IT HAS SERVED ITS USEFULNESS UNLESS OTHERWISE NOTED.

**STONE CHECK DAM DETAIL**

NOT TO SCALE

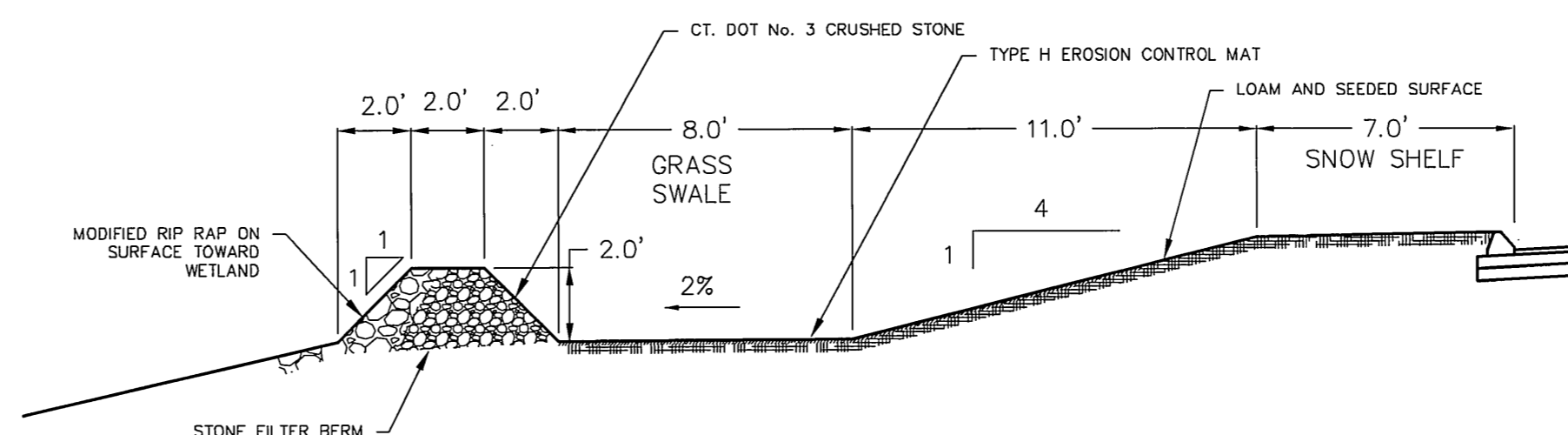


**WATER QUALITY SWALE RIP-RAP FILTER BERM DETAIL**

STA. 8+00 TO 9+80

NOT TO SCALE

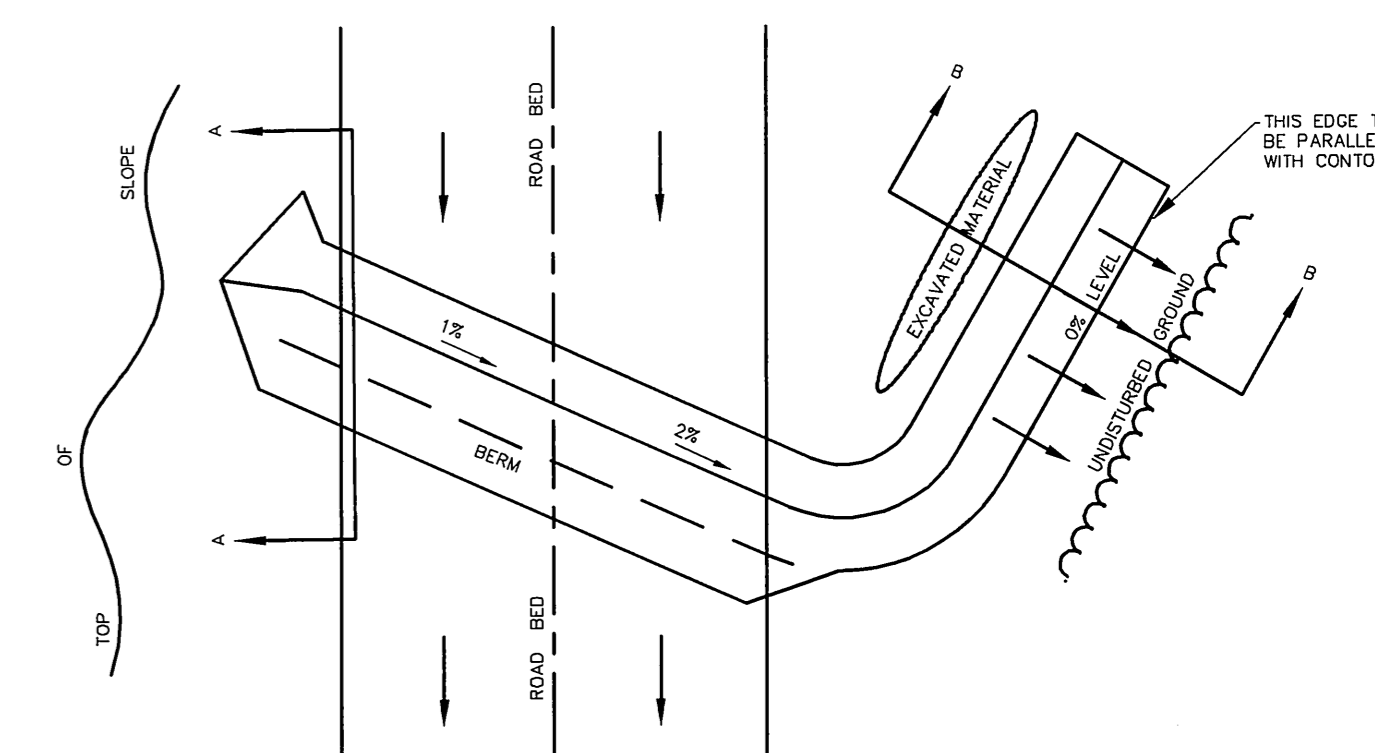
- NOTES:
1. THE WATER QUALITY STONE BERM SHALL BE CONSTRUCTED SO WATER CANNOT PASS AROUND THE ENDS.
  2. STONE FILTER BERM SHALL BE CONSTRUCTED PERPENDICULAR TO THE WATER QUALITY SWALE TO A MAX. HEIGHT OF 2 FEET.



**WATER QUALITY SWALE RIP-RAP FILTER BERM DETAIL**

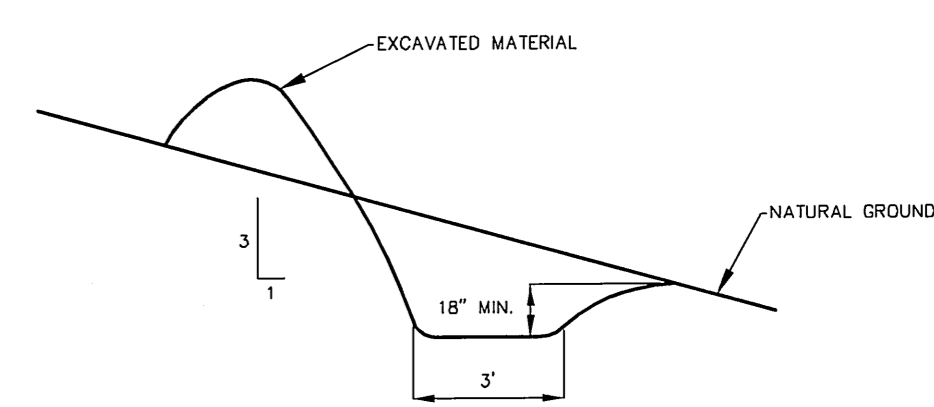
STA. 6+65 TO 8+00

NOT TO SCALE



**CROSS SECTION A-A**

NOT TO SCALE



**CROSS SECTION B-B**

NOT TO SCALE

**TEMPORARY WATER BAR WITH LEVEL SPREADER DETAIL**

NOT TO SCALE

NOTE: WATER-BARS TO BE USED AT DISCRETION OF TOWN OF GLASTONBURY ENVIRONMENTAL PLANNER AS FIELD CONDITIONS WARRANT.

NOTE: LOCATION OF FEATURES AND CONTOUR DATA DEPICTED HEREON WERE ACQUIRED BY FIELD SURVEY ON NOVEMBER 2009.

THERE IS NO BOUNDARY/DETERMINATION OPINION. NO EASEMENTS PERTAINING TO THE SUBJECT PARCEL ARE DEPICTED HEREON. NOT ALL IMPROVEMENTS ARE DEPICTED HEREON.

HORIZONTAL CONTROL IS BASED ON THE CONNECTICUT GEODETIC SURVEY STATE PLANE COORDINATES, NORTH AMERICAN DATUM OF 1983 - (NAD83). ELEVATIONS AND VERTICAL CONTROL IS BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 - (NAVD88).

WESTERN BOULEVARD CONNECTOR PROJECT/APPLICANT	PLANNED EMPLOYMENT ZONE
WESTERN BOULEVARD PROJECT ADDRESS	
SPECIAL PERMIT SECTION	TPZ CHAIRPERSON
DATE SPECIAL PERMIT APP'D	DIRECTOR OF COMMUNITY DEVELOPMENT
FILE NO.	

**Soil Identification Table**

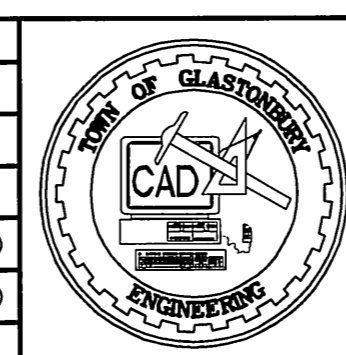
Source USDA / CT-DEP

- (108) Ninigro silt loam
- (109) Fluvaquents - Udifluents complex, frequently flooded
- (15) Scarborough muck
- (21A) Ninigret and Tisbury soils
- (306) Udorthents - Urban land complex
- (307) Urban land
- (308) Udorthents, smoothed
- (32B) Haven and Enfield soils
- (35B) Penwood loamy sand
- (37C) Manchester gravely sandy loam
- (37E) Manchester gravely sandy loam

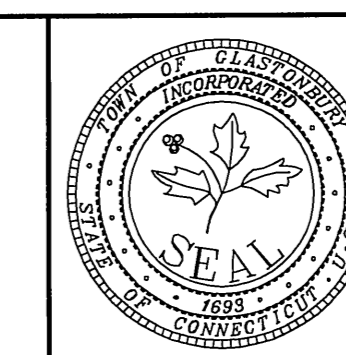
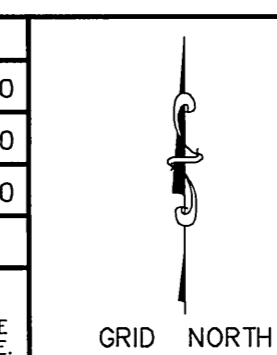


PW-0920

NO.	DESCRIPTION	DATE
2.	ISSUED FOR CONSTRUCTION	6/16/2010
1.	ISSUED FOR PERMITTING	5/14/2010



DRAWN BY: C.F.S.	DATE: 5/12/2010
CHECKED BY: S.M.B.	DATE: 6/16/2010
APPROVED BY: D.A.P.	DATE: 6/16/2010
ST. FILE:	



STORM WATER POLLUTION CONTROL TYPICAL DETAILS & NOTES FOR PROPOSED ROADWAY CONNECTION FOR THE COMPLETION OF WESTERN BOULEVARD LOCATED BETWEEN NATIONAL DRIVE & EASTERN BOULEVARD GLASTONBURY, CONNECTICUT

SHEET NO.

12

OF 15

ALL UTILITY INFORMATION AND DATA SHOWN OR INDICATED IN THE CONTRACT DOCUMENTS ARE COMPILED FROM MAPS AND DATA FURNISHED BY OTHERS. ANY SUCH INFORMATION SHOULD NOT BE CONSTRUED AS ACCURATE OR COMPLETE AND THE CONTRACTOR SHALL VERIFY ALL LOCATIONS PRIOR TO CONSTRUCTION.

THE LOCATION OF UNDERGROUND UTILITIES DEPICTED HEREON ARE BASED ON FIELD LOCATIONS AND BY INFORMATION PROVIDED BY OTHERS. THEIR TRUE LOCATIONS MAY VARY FROM THOSE INDICATED, AND ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN, IF APPLICABLE, UTILIZE THE "CALL BEFORE YOU DIG" NUMBER (1-800-822-4455), TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES, AND RESOLVE CONFLICTS PRIOR TO STARTING CONSTRUCTION, REPAIR OR DESIGN.

**Test Pits Logs**  
Investigated on April 5, 2010 along proposed route of Western Boulevard connection as shown on plans

**TP-2**  
0 - 7" dark brown fine sandy loam topsoil  
7 - 44" red-brown very fine sandy loam (silt noticeable)  
48 - 51" light-brown medium coarse sand (with some gravel)  
51 - 102" red-brown very fine sandy loam  
No groundwater observed

**TP-3**  
0 - 8" black-brown very fine sandy loam topsoil  
8 - 50" red-brown very fine sandy loam  
Groundwater at 50' & slumping sidewalls in pit prevented further observation

**TP-4**  
0 - 8" dark brown very fine sandy loam topsoil (approaching silt loam texture)  
8 - 33" red-brown silt loam  
33 - 37" red-brown very fine sandy loam  
37 - 68" red-brown silt loam  
No groundwater observed

**TP-5**  
0 - 8" black-brown silt loam topsoil  
8 - 28" red-brown silt loam  
Groundwater at 28' - no infiltration potential

**TP-6**  
0 - 7" red-brown fine sandy loam topsoil  
7 - 27" red-brown very fine sandy loam  
27 - 33" red-brown fine sandy loam (traces of coarse sand & gravel)  
33 - 78" red-brown fine to medium sand ('beach sand')  
No groundwater

**TP-7**  
0 - 10" brown very fine sandy loam topsoil  
10 - 37" red-brown very fine sandy loam (silt noticeable)  
37 - 48" red-brown silt loam  
48 - 72" no analysis due to pit instability  
Groundwater at 72"

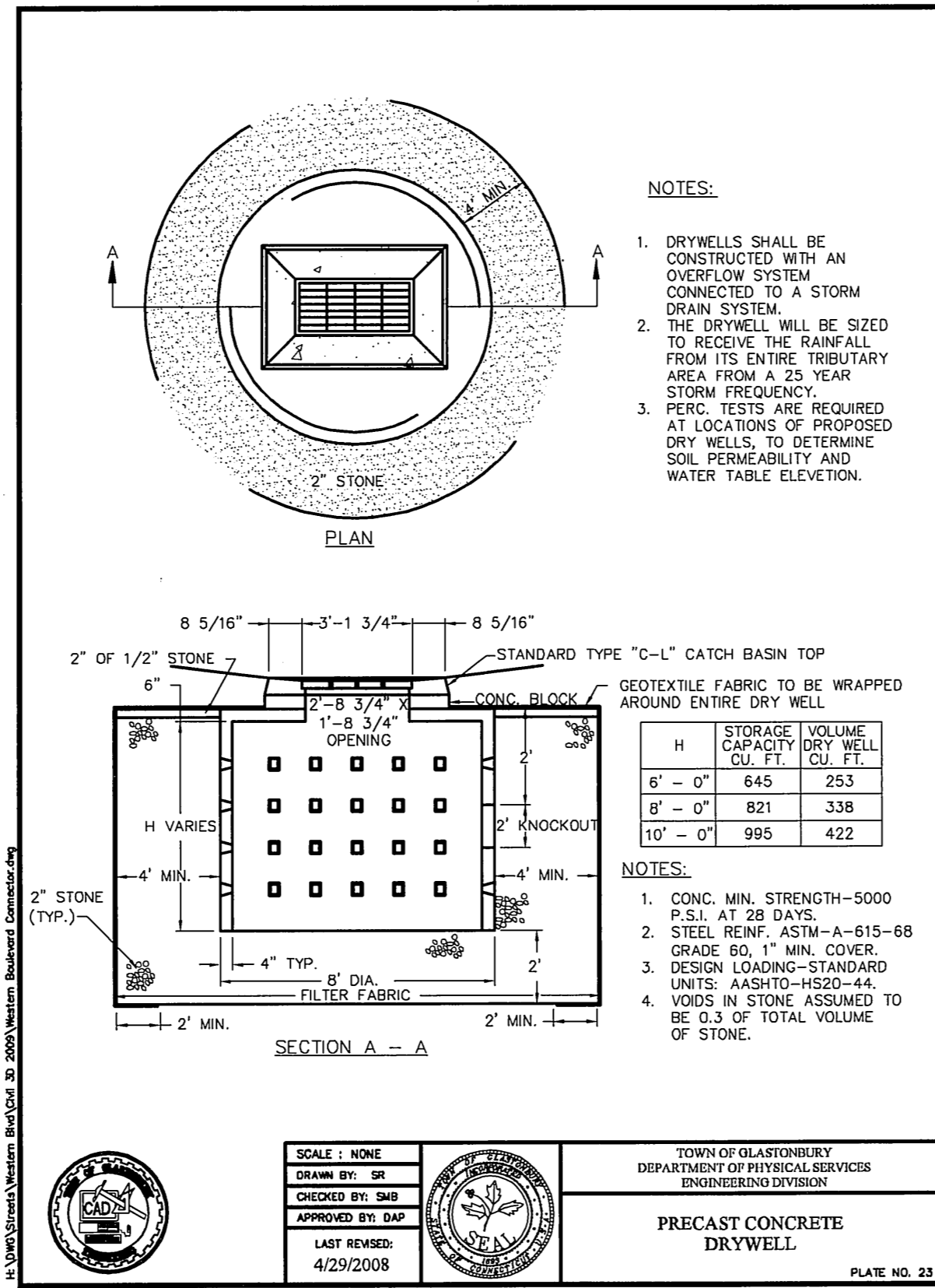
**TP-8**  
0 - 10" brown fine sandy loam topsoil  
10 - 24" red-brown very fine sandy loam  
24 - 28" brown medium sand  
28 - 80" brown coarse sand  
Groundwater at 68"

**TP-9**  
0 - 14" brown fine sandy loam topsoil  
14 - 33" brown medium coarse sand  
33 - 60" red-brown fine sandy loam  
60 - 76" brown medium coarse sand  
76 - 96" red-brown very fine sandy loam  
No groundwater

**TP-10**  
0 - 6" brown fine sandy loam  
6 - 49" red-brown fine sandy loam (silt noticeable)  
49 - 98" brown medium coarse sand  
No groundwater

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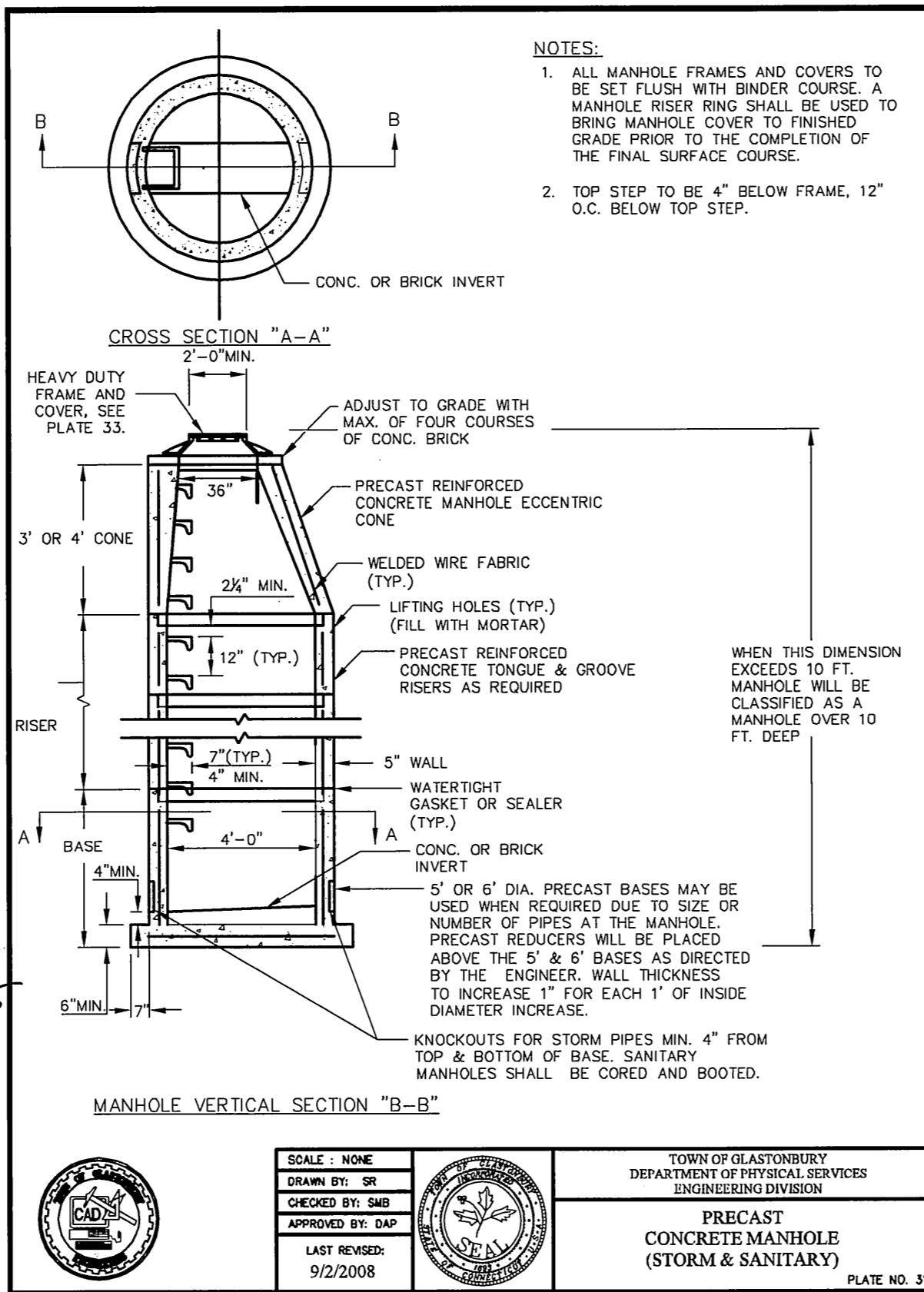


SCALE: NONE  
DRAWN BY: SR  
CHECKED BY: S.M.B.  
APPROVED BY: D.A.P.  
LAST REVISED: 4/29/2008

TOWN OF GLASTONBURY  
DEPARTMENT OF PHYSICAL SERVICES  
ENGINEERING DIVISION

PRECAST CONCRETE DRYWELL

PLATE NO. 23

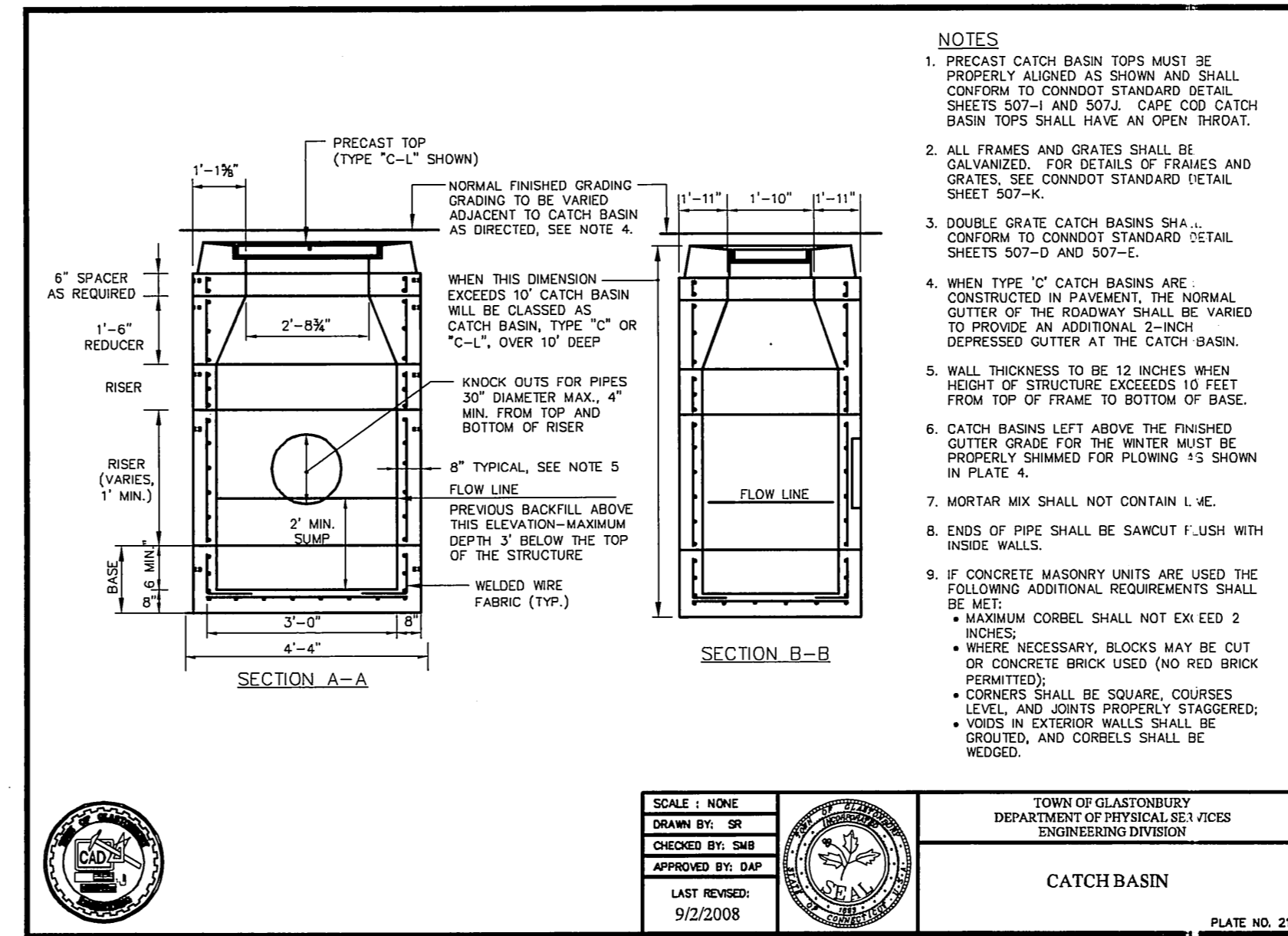


SCALE: NONE  
DRAWN BY: SR  
CHECKED BY: S.M.B.  
APPROVED BY: D.A.P.  
LAST REVISED: 9/2/2008

TOWN OF GLASTONBURY  
DEPARTMENT OF PHYSICAL SERVICES  
ENGINEERING DIVISION

PRECAST CONCRETE MANHOLE (STORM & SANITARY)

PLATE NO. 31

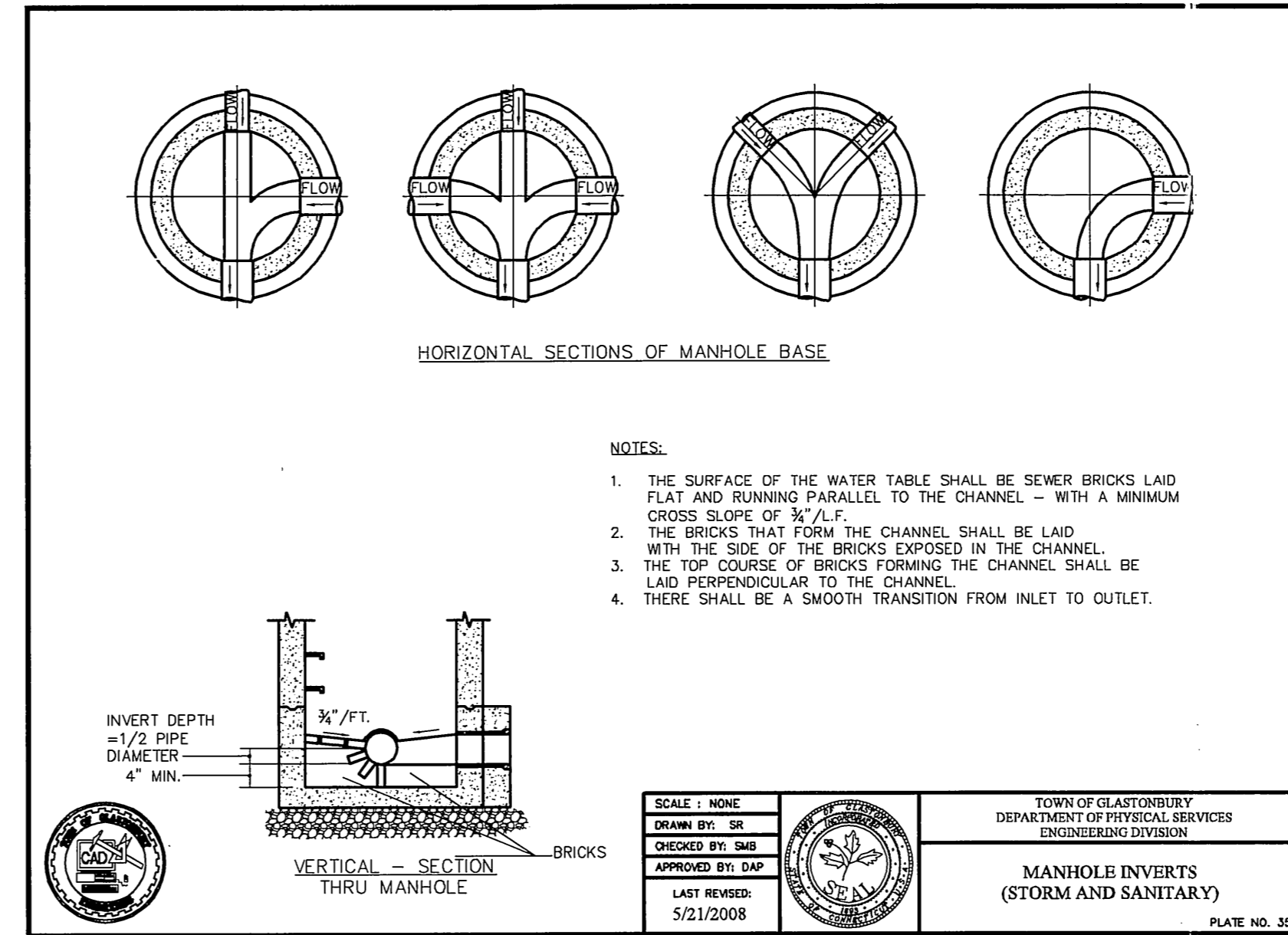


SCALE: NONE  
DRAWN BY: SR  
CHECKED BY: S.M.B.  
APPROVED BY: D.A.P.  
LAST REVISED: 9/2/2008

TOWN OF GLASTONBURY  
DEPARTMENT OF PHYSICAL SERVICES  
ENGINEERING DIVISION

CATCH BASIN

PLATE NO. 21

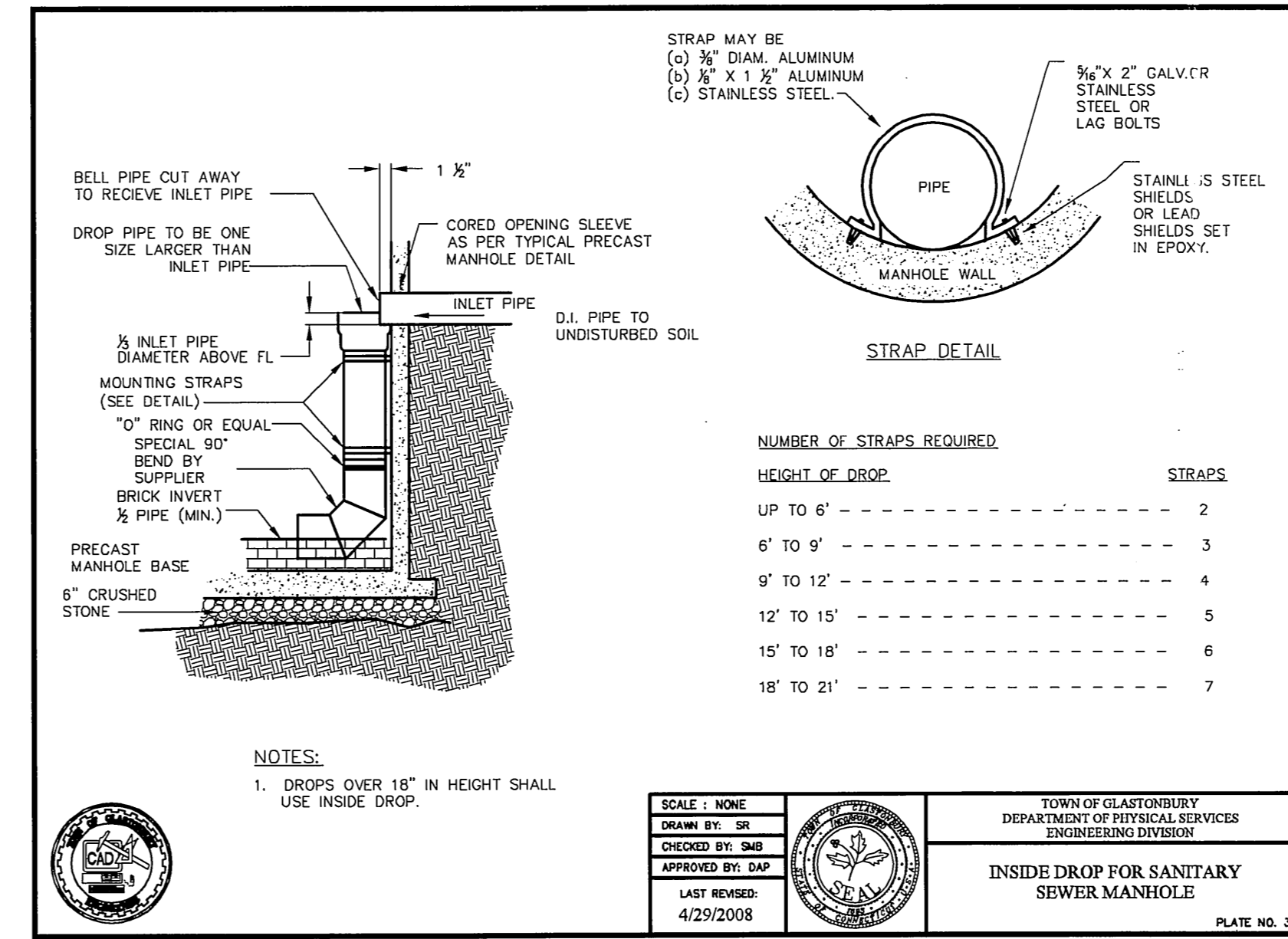


SCALE: NONE  
DRAWN BY: SR  
CHECKED BY: S.M.B.  
APPROVED BY: D.A.P.  
LAST REVISED: 5/21/2008

TOWN OF GLASTONBURY  
DEPARTMENT OF PHYSICAL SERVICES  
ENGINEERING DIVISION

MANHOLE INVERTS (STORM AND SANITARY)

PLATE NO. 33

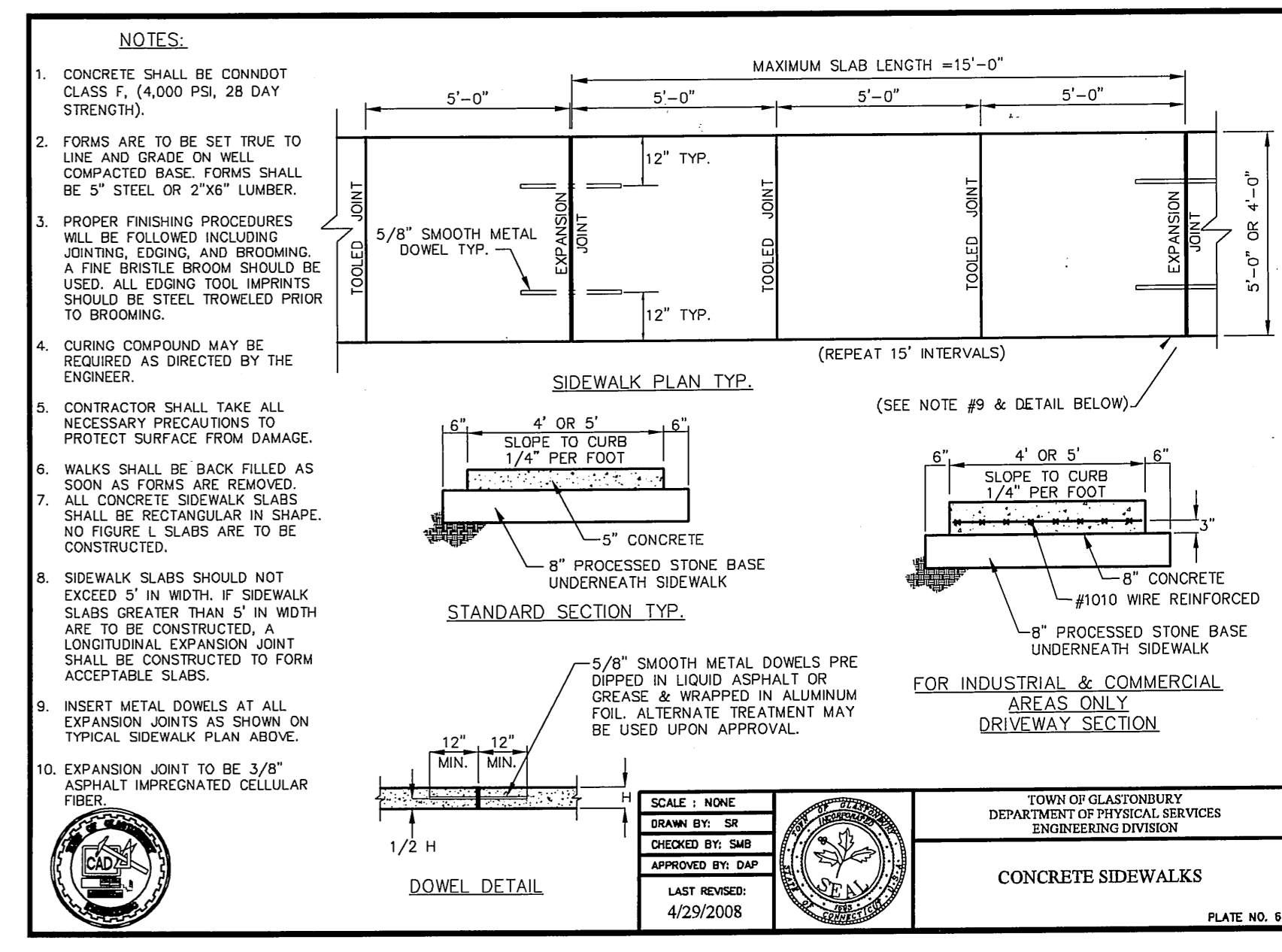


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DRAWN BY: SR  
CHECKED BY: S.M.B.  
APPROVED BY: D.A.P.  
LAST REVISED: 4/29/2008

TOWN OF GLASTONBURY  
DEPARTMENT OF PHYSICAL SERVICES  
ENGINEERING DIVISION

INSIDE DROP FOR SANITARY SEWER MANHOLE

PLATE NO. 38

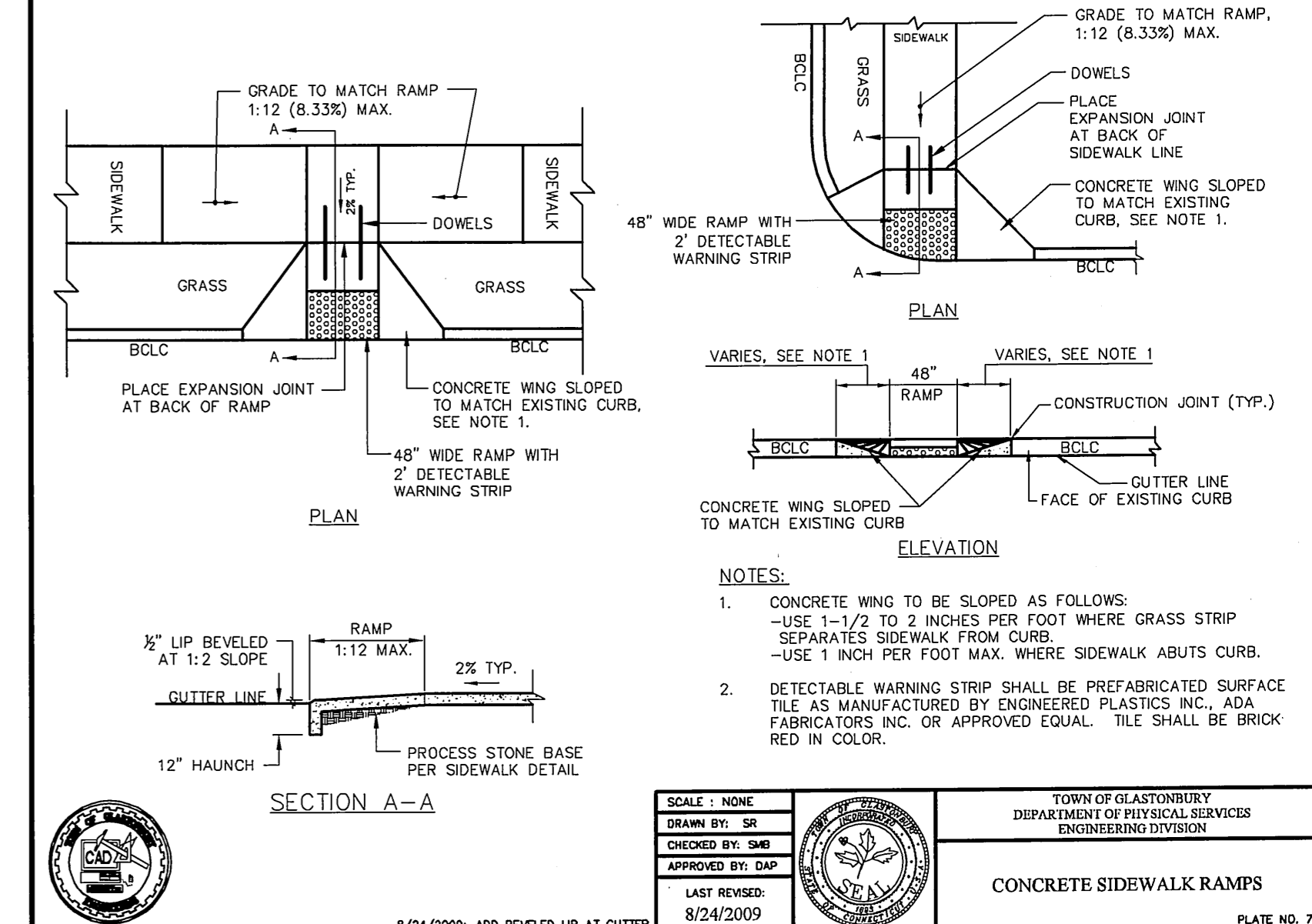


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DRAWN BY: SR  
CHECKED BY: S.M.B.  
APPROVED BY: D.A.P.  
LAST REVISED: 4/29/2008

TOWN OF GLASTONBURY  
DEPARTMENT OF PHYSICAL SERVICES  
ENGINEERING DIVISION

CONCRETE SIDEWALKS

PLATE NO. 6

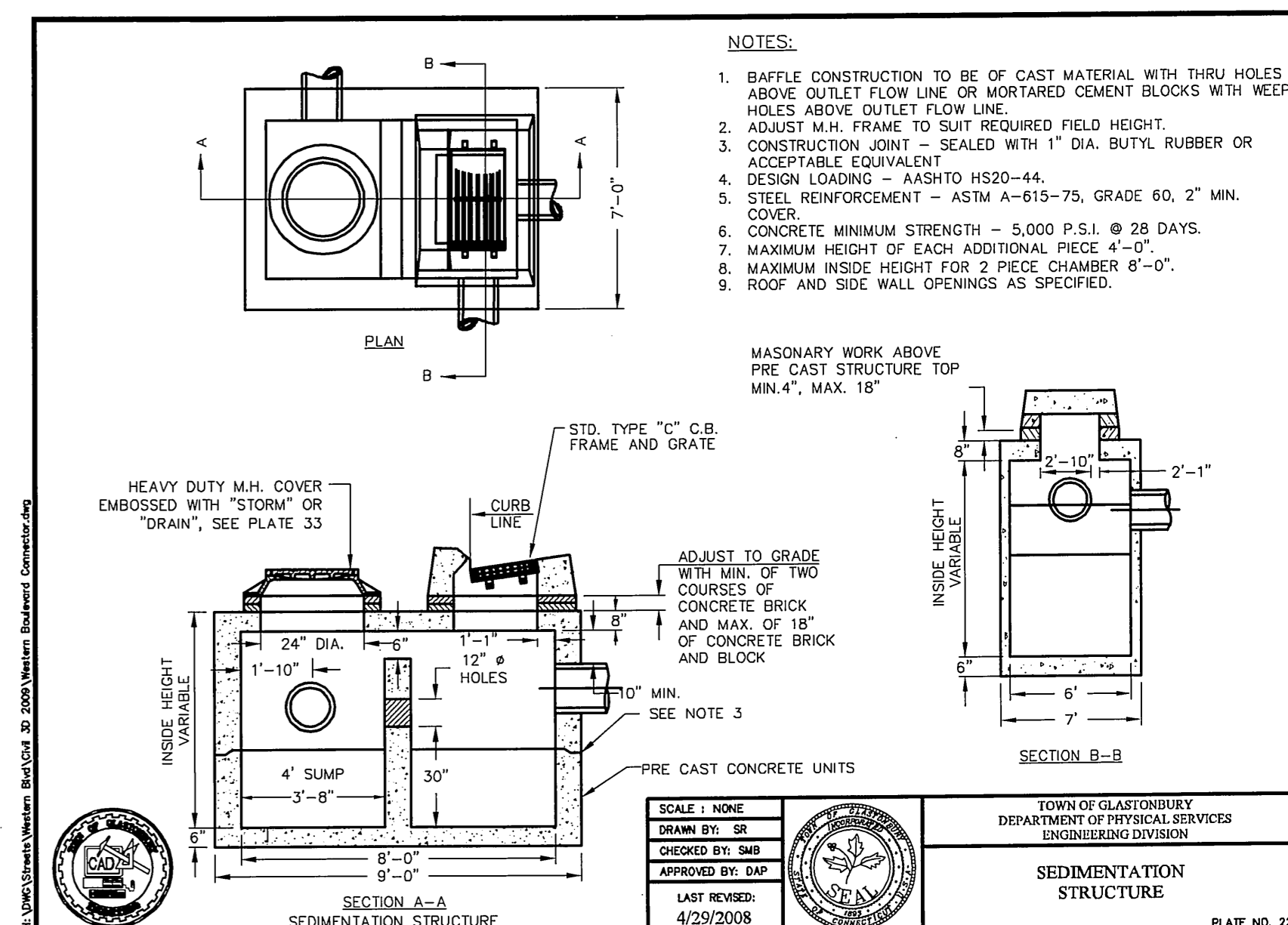


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DRAWN BY: SR  
CHECKED BY: S.M.B.  
APPROVED BY: D.A.P.  
LAST REVISED: 8/24/2009

TOWN OF GLASTONBURY  
DEPARTMENT OF PHYSICAL SERVICES  
ENGINEERING DIVISION

CONCRETE SIDEWALK RAMPS

PLATE NO. 7



SCALE: NONE  
DRAWN BY: SR  
CHECKED BY: S.M.B.  
APPROVED BY: D.A.P.  
LAST REVISED: 4/29/2008

TOWN OF GLASTONBURY  
DEPARTMENT OF PHYSICAL SERVICES  
ENGINEERING DIVISION

SEDIMENTATION STRUCTURE

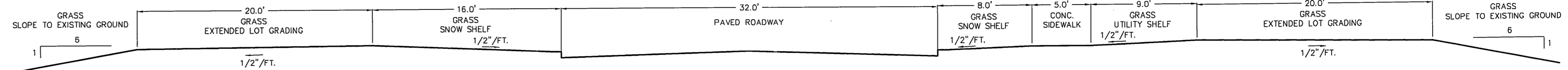
PLATE NO. 22

DRAWING ISSUE STATUS		SCALE: AS SHOWN	DATE:
1.	ISSUED FOR PERMITTING		5/12/2010
2.	ISSUED FOR CONSTRUCTION		6/16/2010
3.	ISSUED FOR CONSTRUCTION		6/16/2010

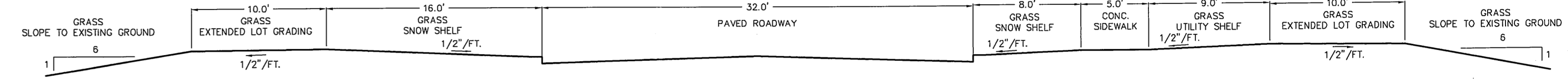
ST. FILE:  
DO NOT SCALE THIS DRAWING. USE THE DIMENSIONS GIVEN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT THE TOWN OF GLASTONBURY, ENGINEERING OFFICE.

TYPICAL DETAILS & NOTES FOR PROPOSED ROADWAY CONNECTION FOR THE COMPLETION OF WESTERN BOULEVARD LOCATED BETWEEN NATIONAL DRIVE & EASTERN BOULEVARD GLASTONBURY, CONNECTICUT

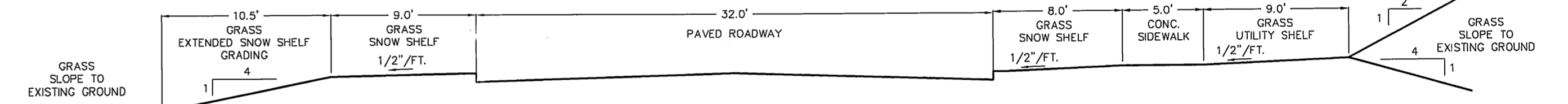
SHEET NO. 13 OF 15



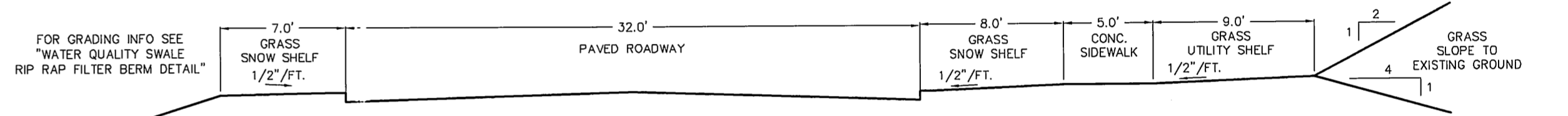
**TYPICAL CROSS SECTION - LOT GRADING 2**  
**STA. 12+35 to 17+40**  
 NOT TO SCALE



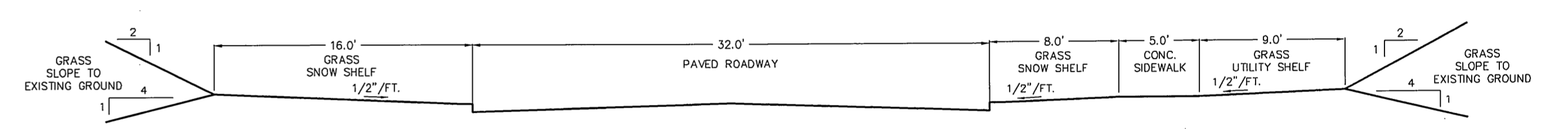
**TYPICAL CROSS SECTION - LOT GRADING 1**  
**STA. 12+05 to 12+25, 17+50 to 17+75**  
 NOT TO SCALE



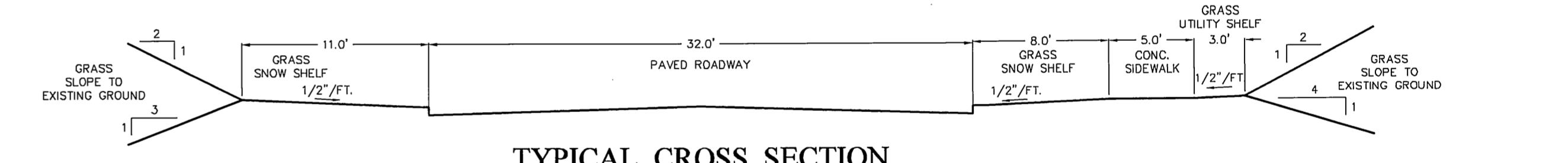
**TYPICAL CROSS SECTION**  
**STA. 9+90 to 10+15**  
 NOT TO SCALE



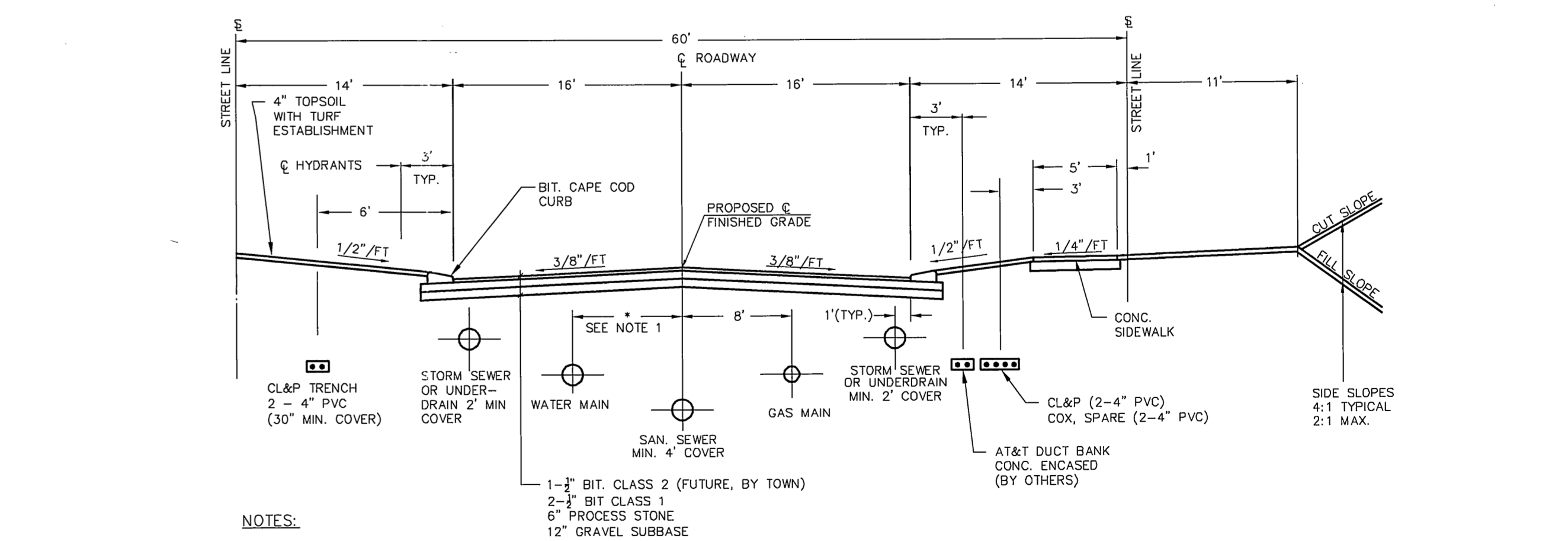
**TYPICAL CROSS SECTION - WATER QUALITY SWALE**  
**STA. 6+65 to 9+85**  
 NOT TO SCALE



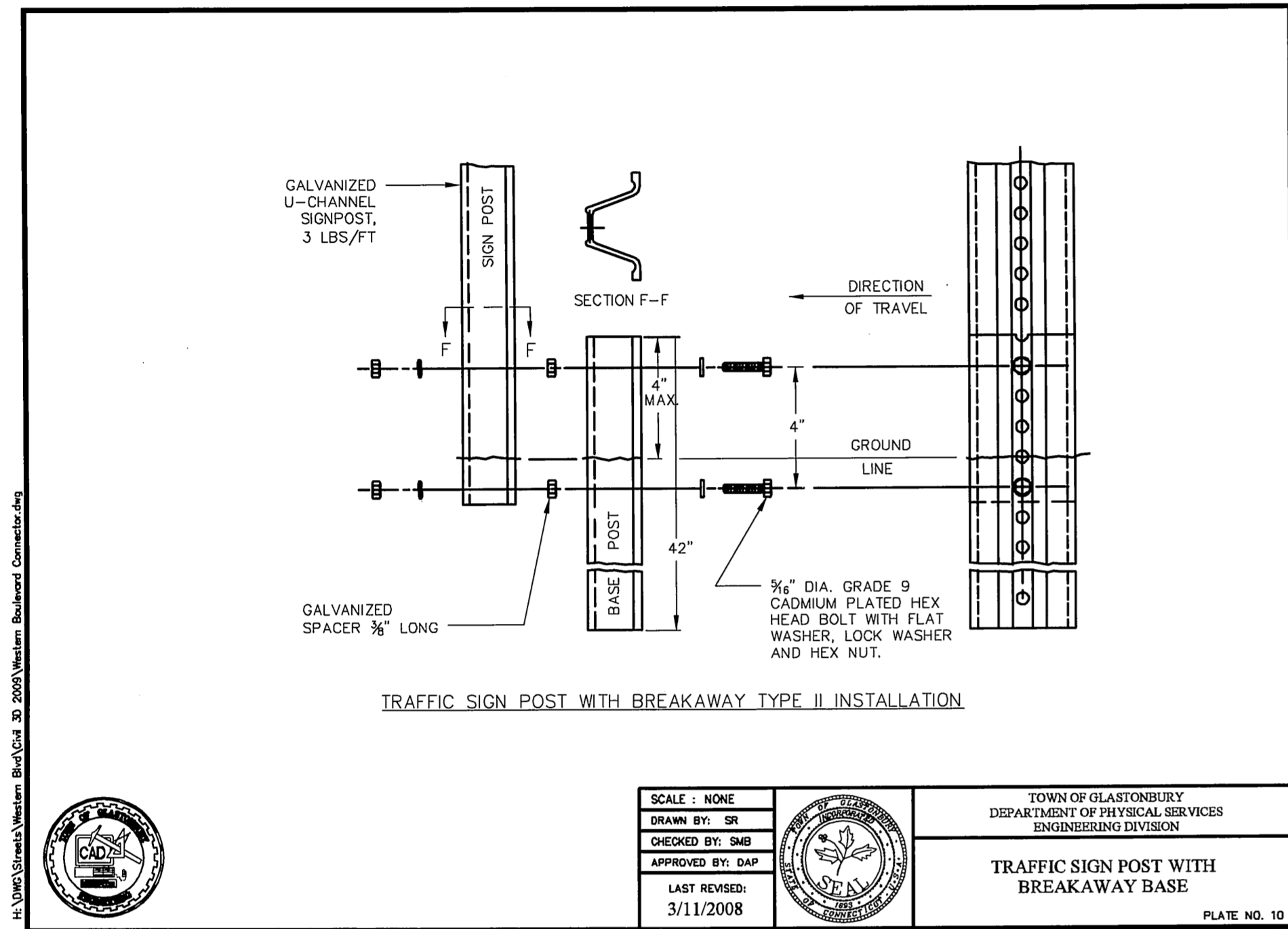
**TYPICAL CROSS SECTION**  
**STA. 3+30 to 6+60, 10+20 to 12+0, 17+80 to 18+50**  
 NOT TO SCALE



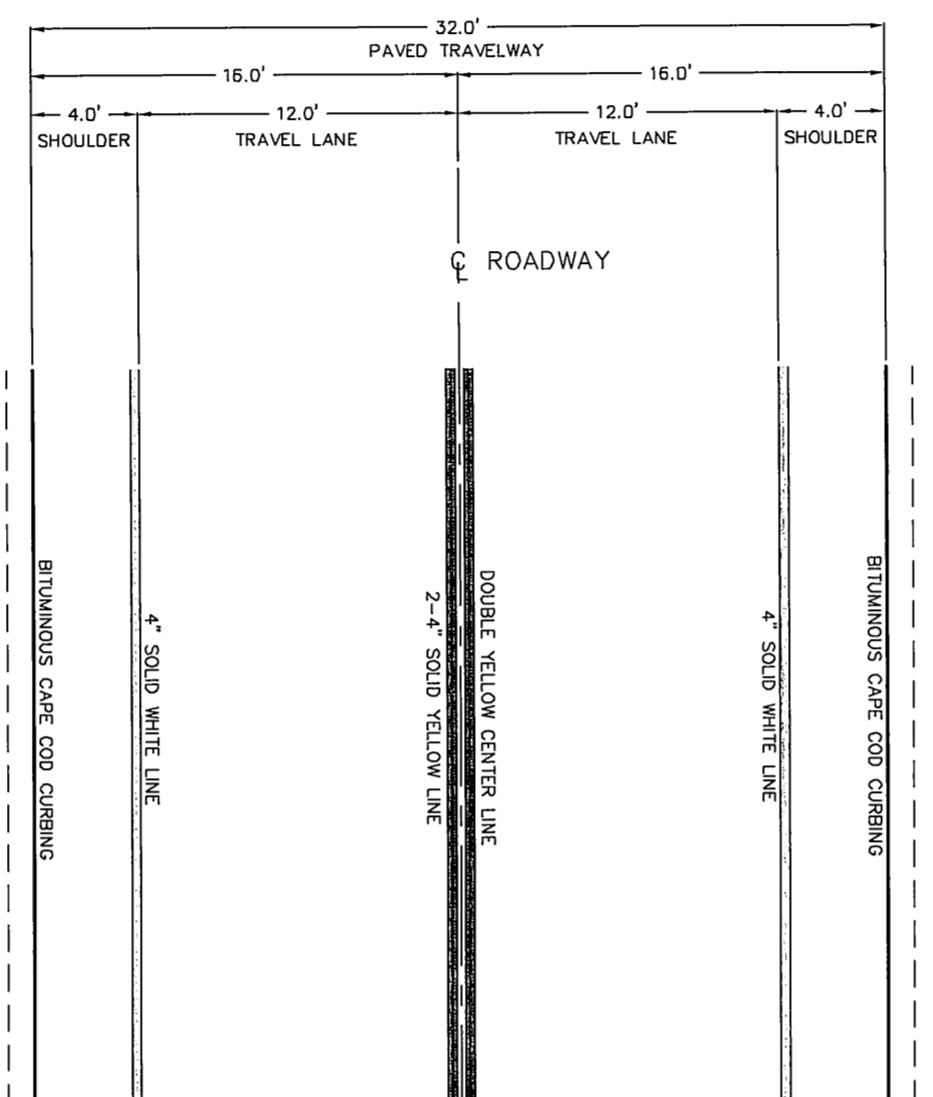
**TYPICAL CROSS SECTION**  
**STA. 2+50 to 3+25**  
 NOT TO SCALE



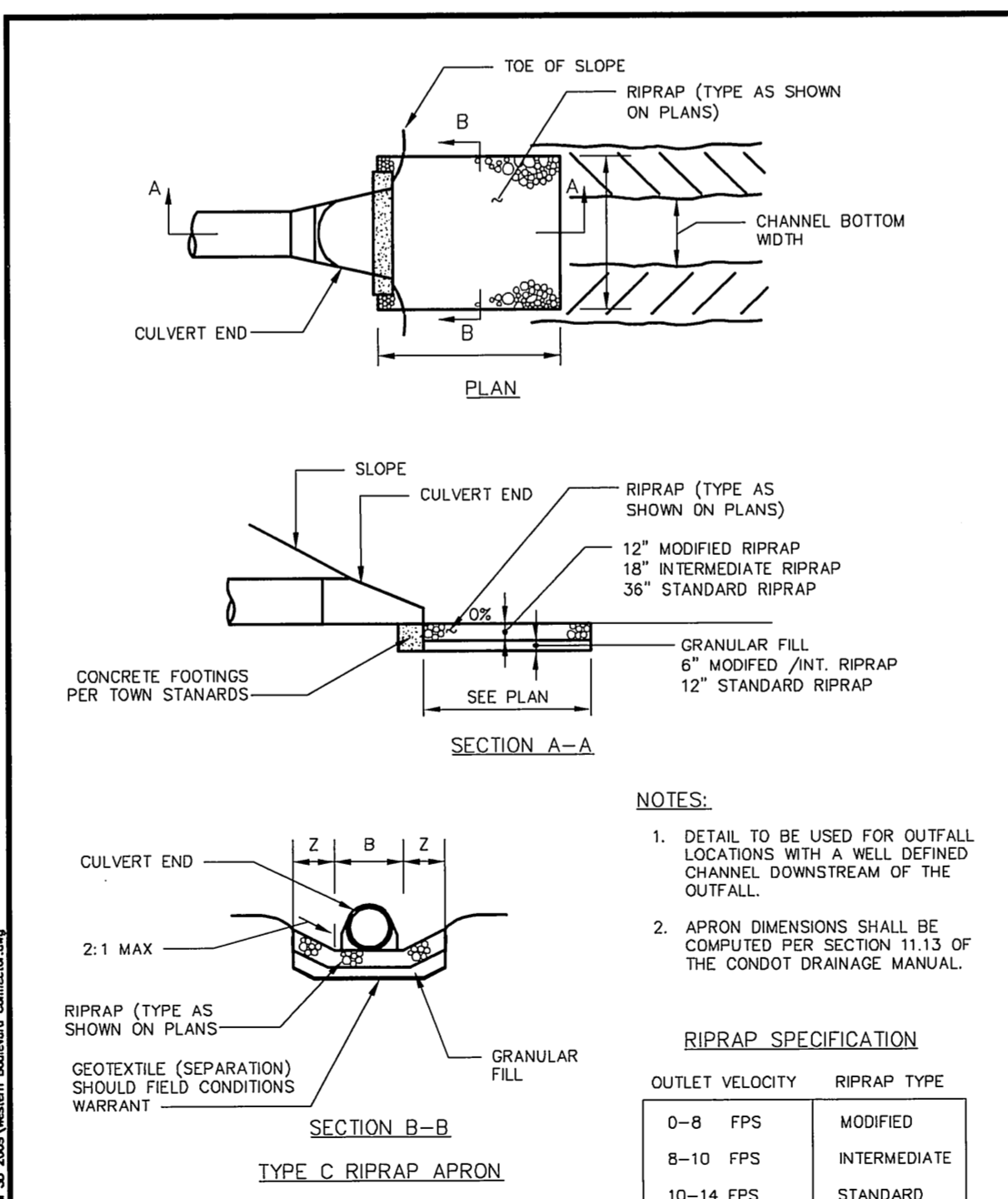
**TYPICAL CROSS SECTION**  
 NOT TO SCALE



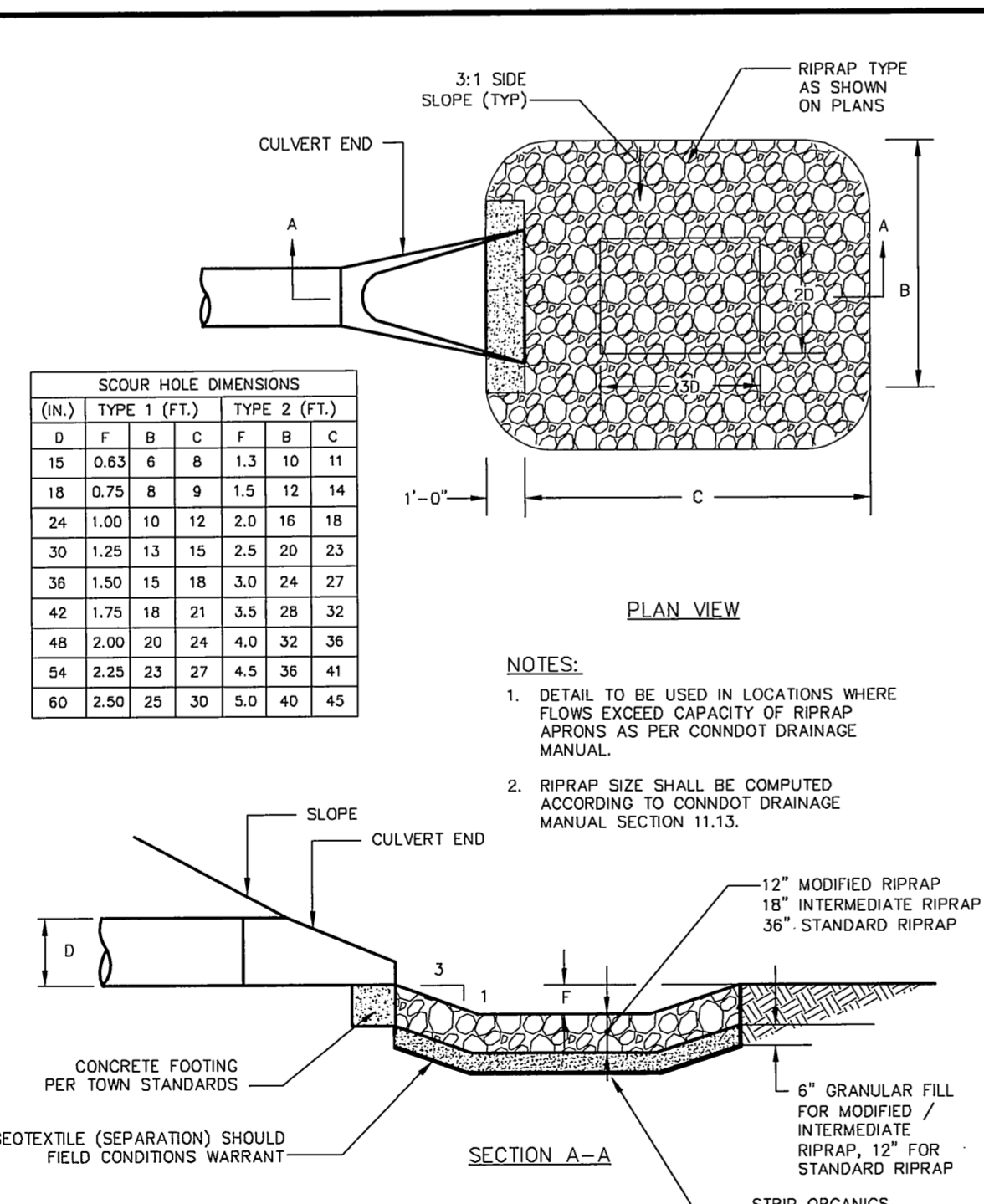
**TOWN OF GLASTONBURY**  
 DEPARTMENT OF PHYSICAL SERVICES  
 ENGINEERING DIVISION  
**TRAFFIC SIGN POST WITH BREAKAWAY BASE**  
 SCALE: NONE  
 DRAWN BY: SR  
 CHECKED BY: SMB  
 APPROVED BY: DAP  
 LAST REVISED: 3/11/2008  
 PLATE NO. 10



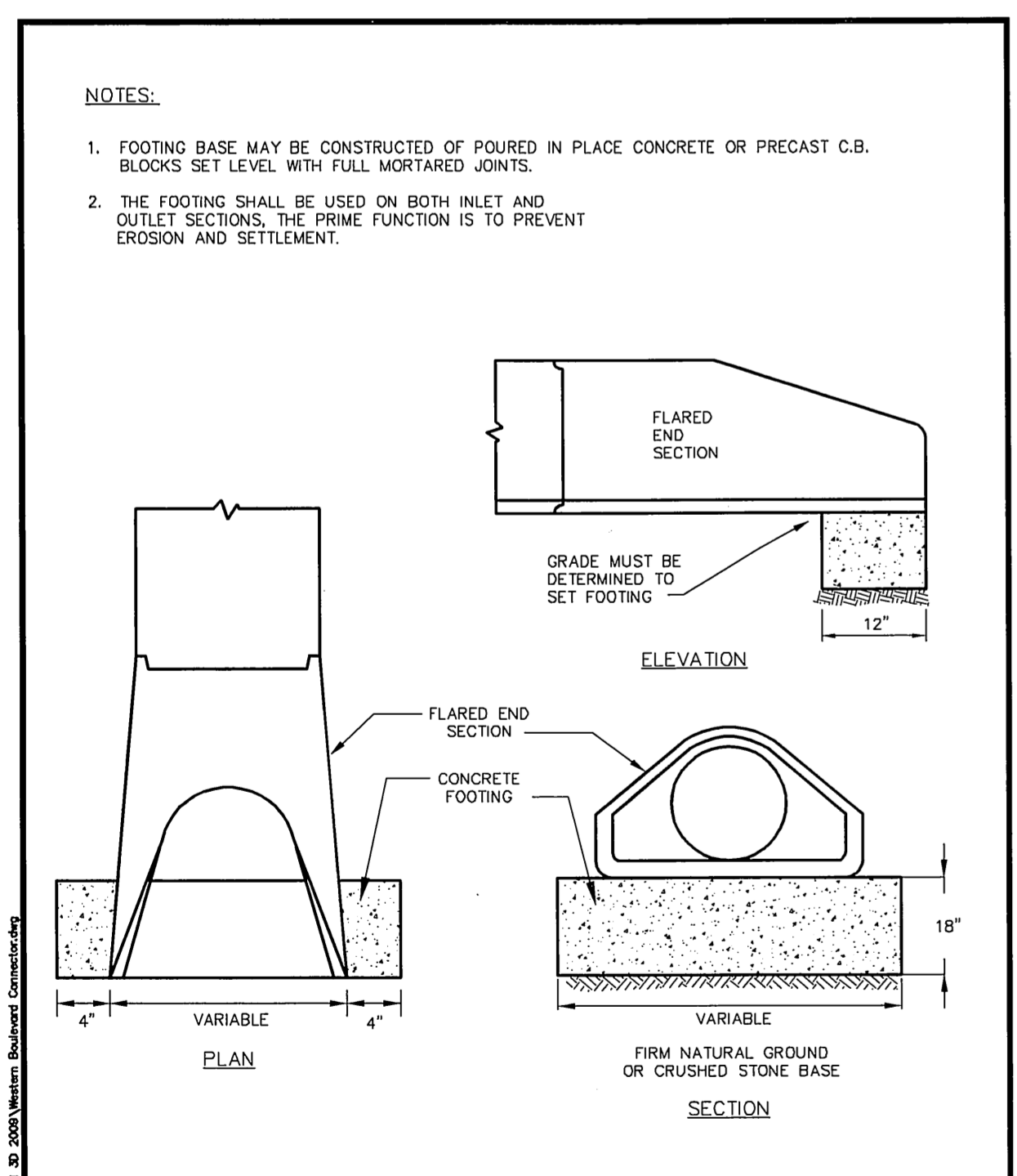
**TYPICAL LANE MARKINGS**  
**STA. 2+50 to 18+50**  
 NOT TO SCALE



**TOWN OF GLASTONBURY**  
 DEPARTMENT OF PHYSICAL SERVICES  
 ENGINEERING DIVISION  
**RIPRAP APRON TYPE C**  
 SCALE: NONE  
 DRAWN BY: SR  
 CHECKED BY: SMB  
 APPROVED BY: DAP  
 LAST REVISED: 3/4/2008  
 PLATE NO. 28



**TOWN OF GLASTONBURY**  
 DEPARTMENT OF PHYSICAL SERVICES  
 ENGINEERING DIVISION  
**PREFORMED SCOUR HOLE TYPE 1 & TYPE 2**  
 SCALE: NONE  
 DRAWN BY: SR  
 CHECKED BY: SMB  
 APPROVED BY: DAP  
 LAST REVISED: 3/4/2008  
 PLATE NO. 27



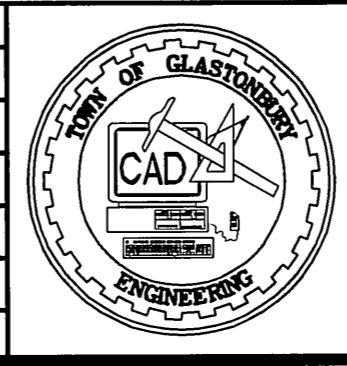
**TOWN OF GLASTONBURY**  
 DEPARTMENT OF PHYSICAL SERVICES  
 ENGINEERING DIVISION  
**CONCRETE FOOTING FOR FLARED END SECTION**  
 SCALE: NONE  
 DRAWN BY: SR  
 CHECKED BY: SMB  
 APPROVED BY: DAP  
 LAST REVISED: 4/29/2008  
 PLATE NO. 24

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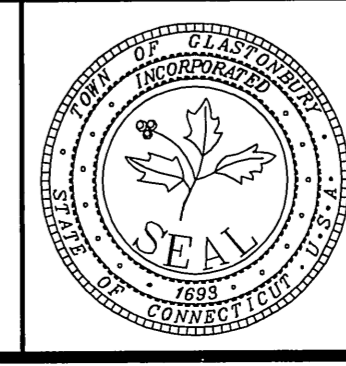
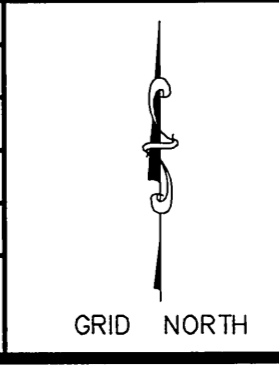
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DRAWING ISSUE STATUS		
NO.	DESCRIPTION	DATE
2.	ISSUED FOR CONSTRUCTION	6/16/2010
1.	ISSUED FOR PERMITTING	5/14/2010



SCALE:	AS SHOWN	DATE:
DRAWN BY:	C.F.S.	5/12/2010
CHECKED BY:	S.M.B.	6/16/2010
APPROVED BY:	D.A.P.	6/16/2010
ST. FILE:		

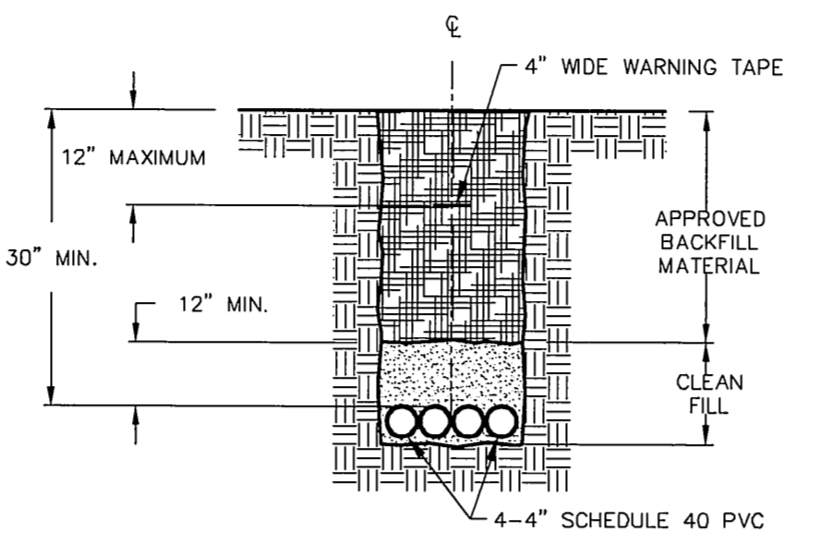
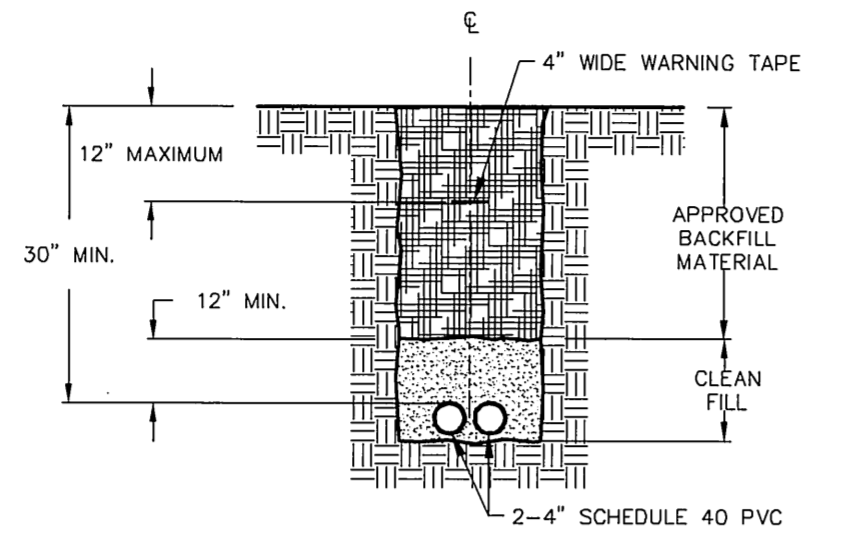
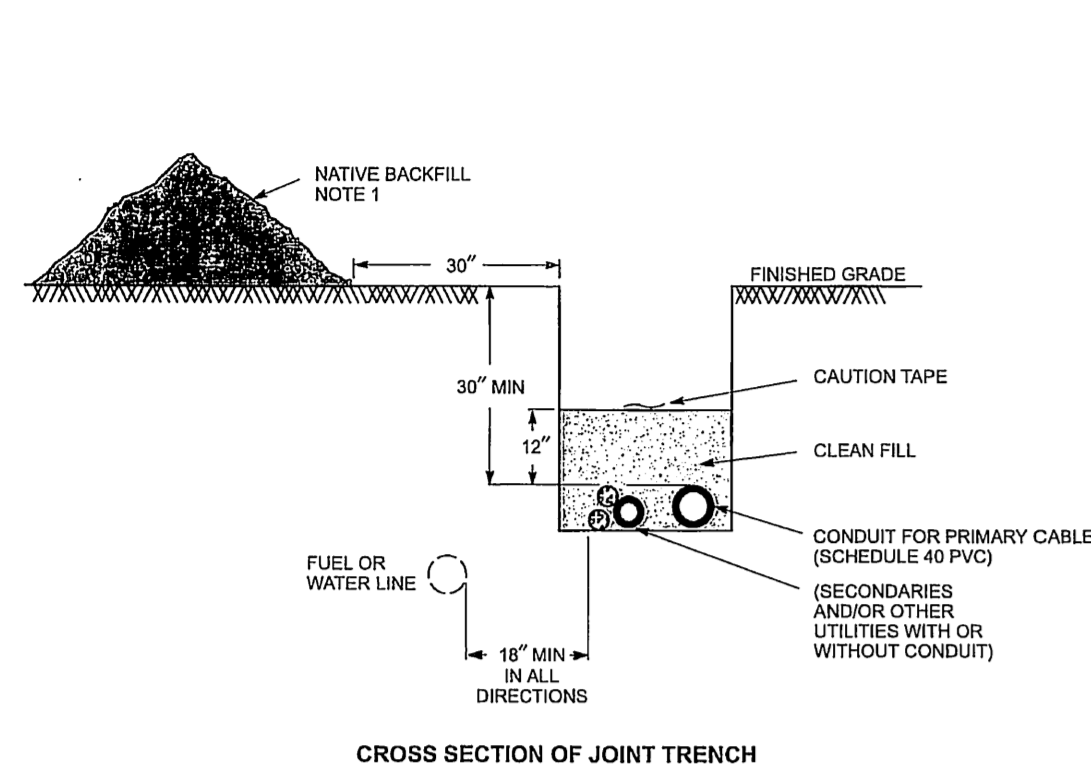


**TYPICAL DETAILS & NOTES FOR PROPOSED ROADWAY CONNECTION FOR THE COMPLETION OF WESTERN BOULEVARD**  
 LOCATED BETWEEN  
**NATIONAL DRIVE & EASTERN BOULEVARD**  
**GLASTONBURY, CONNECTICUT**

**SCOPE** - All direct-buried primary cables shall be of the jacketed type. The cables may be random-laid with the secondaries and other utilities under certain conditions, detailed in DTR 44.101.

**INSTALLATION IN TRENCH** - All direct-buried cables shall be installed at a depth of at least 30 inches in the following order:

1. Ensure that the bottom of the trench is well-lamped and free of rocks.
2. Install the conduit, gluing all couplings.
3. Install secondaries and other utility cables or conduits in the trench.
4. Backfill with 12 inches clean fill not to contain stones larger than 2 inches in maximum diameter.
5. Install cable warning tape 12 inches over the conduit.
6. Fill in the remainder of the trench with native backfill.
7. Install pull line, including 10 feet of slack, and secure to conduit plug at each end of conduit run.



**DUCT BANK TYPE 1**  
NOT TO SCALE

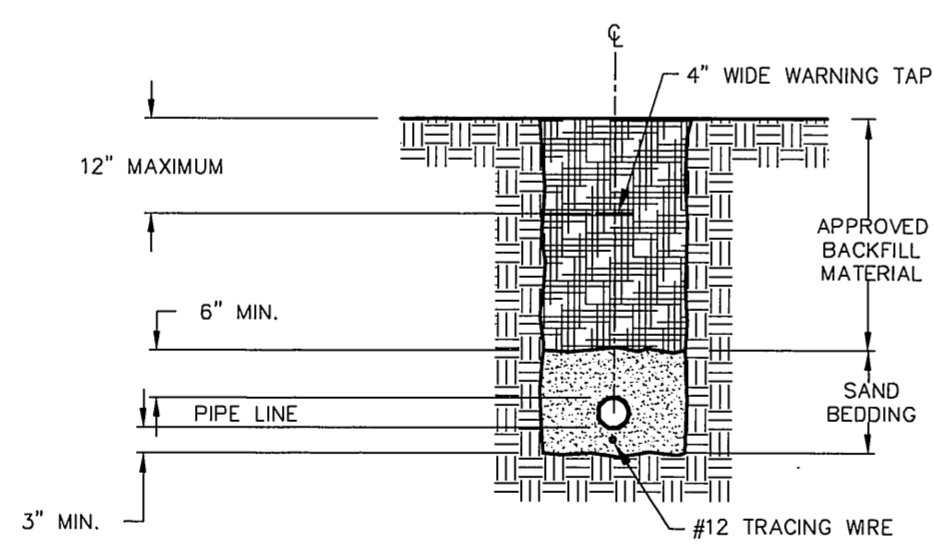
**DUCT BANK TYPE 2**  
NOT TO SCALE

- Notes**
1. The trench shall be backfilled immediately following placement of the conduit.
  2. 1/4-inch-diameter nylon pull line and plastic conduit plugs to be supplied and installed by contractor.

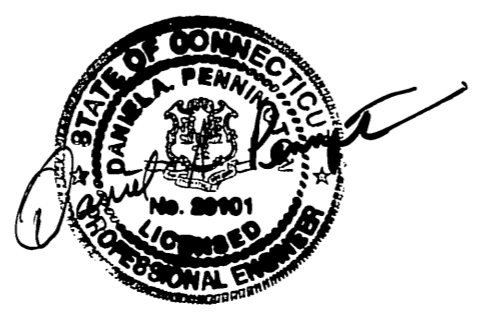
ORIGINAL	<b>THREE-PHASE PRIMARY CABLE INSTALLATION</b>		CTMA
SCHEMATIC	<b>DIRECT-BURIED - IN CONDUIT</b>		
APPROVED	NORTHEAST UTILITIES	CONSTRUCTION STANDARD	DTR 51.102 3

**CONNECTICUT NATURAL GAS NOTES:**

1. A MINIMUM OF 1'0" VERTICAL CLEARANCE AND 3'0" HORIZONTAL CLEARANCE MUST BE MAINTAINED BETWEEN THE GAS LINE AND ALL OTHER STRUCTURES.
2. MINIMUM COVER OVER PIPE SHALL BE MEASURED AS FOLLOWS:
  - a. IN TRAVELLED PORTION OF THE ROADWAY: MINIMUM COVER SHALL BE 30" FROM THE TOP OF PIPE TO THE TOP OF TRENCH USING THE SHALLOW SIDE MEASUREMENT.
  - b. OFF OF THE TRAVEL PORTION WHEN THE SECTION IS AT A LOWER ELEVATION THAN THE TRAVEL WAY: MINIMUM COVER SHALL BE FROM 24" FROM THE TOP OF THE TRENCH USING THE SHALLOW SIDE FOR MEASUREMENT.
  - c. OFF OF THE TRAVEL PORTION WHEN THE SECTION IS AT A HIGHER ELEVATION THAN THE TRAVEL WAY: MINIMUM COVER SHALL BE FROM 24" WITH THE ELEVATION TAKEN FROM THE GUTTER LINE.
3. MINIMUM COVER OF SERVICE LINES IN PRIVATE PROPERTY SHALL BE 18" WHEN OUTSIDE PAVED AREAS, I.E. PARKING LOT, OR WHEN APPROVED BY A CNG INSPECTOR OR DESIGNEE.
4. THE BOTTOM OF THE TRENCH MUST BE FREE OF ROCKS, DEBRIS OR WATER THAT COULD DAMAGE THE PIPE OR ITS COATING.
5. PRIOR TO LAYING THE PIPE, A MINIMUM OF 3" OF SCREENED SAND MUST BE PLACED IN THE BOTTOM OF THE TRENCH, (SCREENED SAND SHOULD BE COMPARABLE TO MASON SAND).
6. THE FIRST LAYER OF PIPE PROTECTION MUST BE A MINIMUM OF 4" OF SAND ON THE SIDES AND 6" OF SAND ON THE TOP.
7. EXPOSED PIPING MUST BE BACKFILLED WITH A MINIMUM OF 6" OF SAND PRIOR TO LEAVING THE JOB SITE EACH DAY AND WITNESSED BY A CNG REPRESENTATIVE OR CNG CONTRACTOR.
8. THE FINAL BACKFILLING PROCEDURE SHALL BE WITNESSED AND INSPECTED BY A CNG REPRESENTATIVE. ONLY APPROVED SELECT BACKFILL MATERIAL WILL BE USED.
9. THE BUILDER, UPON APPROVAL OF A CNG REPRESENTATIVE OR ITS SUBCONTRACTOR, IS TO PLACE WARNING TAPE APPROXIMATELY ON FOOT BELOW FINISHED GRADE BEFORE COMPLETING TRENCH BACKFILL WHEN IN PAVED AREA. WARNING TAPE SHALL BE 6" BELOW GRADE WHEN OUT OF PAVED AREAS.
10. THE BUILDER IS REQUIRED TO COMPACT THE BACKFILL MATERIAL WITHIN ESTABLISHED PROTOCOL. TRENCH SETTLEMENT IS THE RESPONSIBILITY OF THE CUSTOMER TO CORRECT.
11. ONLY PERSONNEL QUALIFIED BY CNG WILL BE ALLOWED TO INSTALL GAS LINES.
12. CNG WILL REQUIRE A SUITABLE LOCATION TO STORE PIPE AND MATERIALS. SECURITY IS THE RESPONSIBILITY OF THE DEVELOPER.
13. THE BUILDER WILL BE RESPONSIBLE FOR PAYMENTS TO CNG'S SUBCONTRACTOR FOR ANY ADDITIONAL ITEMS REQUIRED TO COMPLETE THE INSTALLATION, I.E. BACKFILL MATERIAL, LABOR OR MATERIAL. IN ADDITION, THE BUILDER WILL ALSO BE RESPONSIBLE FOR ITS DAMAGE TO UNDERGROUND FACILITIES AND TO THOSE FACILITIES EXPOSED. THE BUILDER WILL BE RESPONSIBLE FOR PROTECTING AND SUPPORTING ALL EXPOSED UNDERGROUND FACILITIES IN A MANNER ACCEPTABLE TO THE SUBJECT UTILITY.



**GAS MAIN TRENCH DETAIL**  
NOT TO SCALE

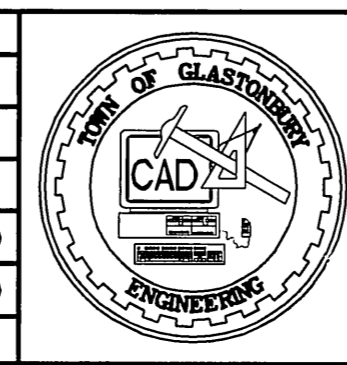


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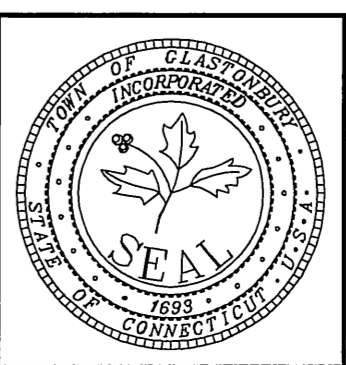
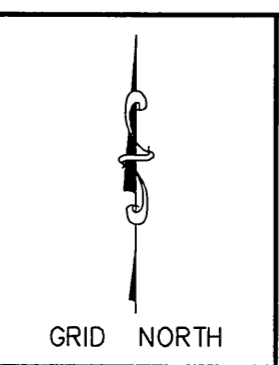
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PW-0920

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OF 15