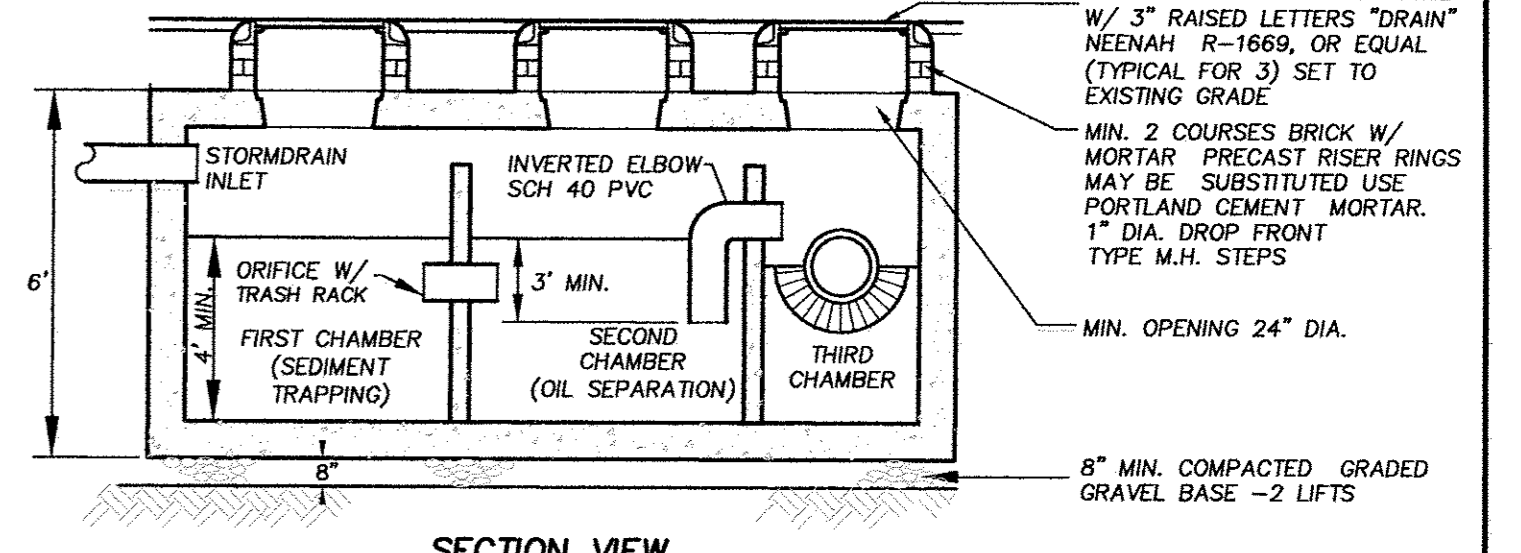
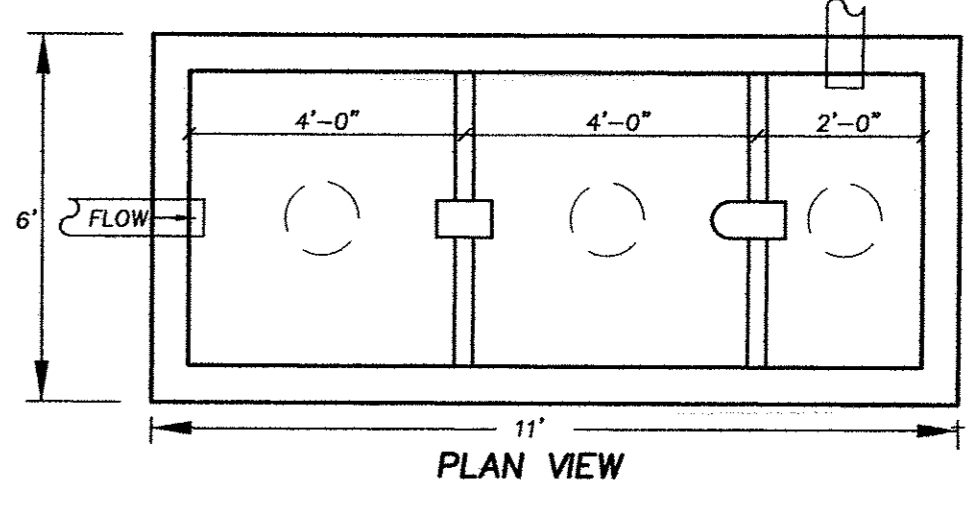
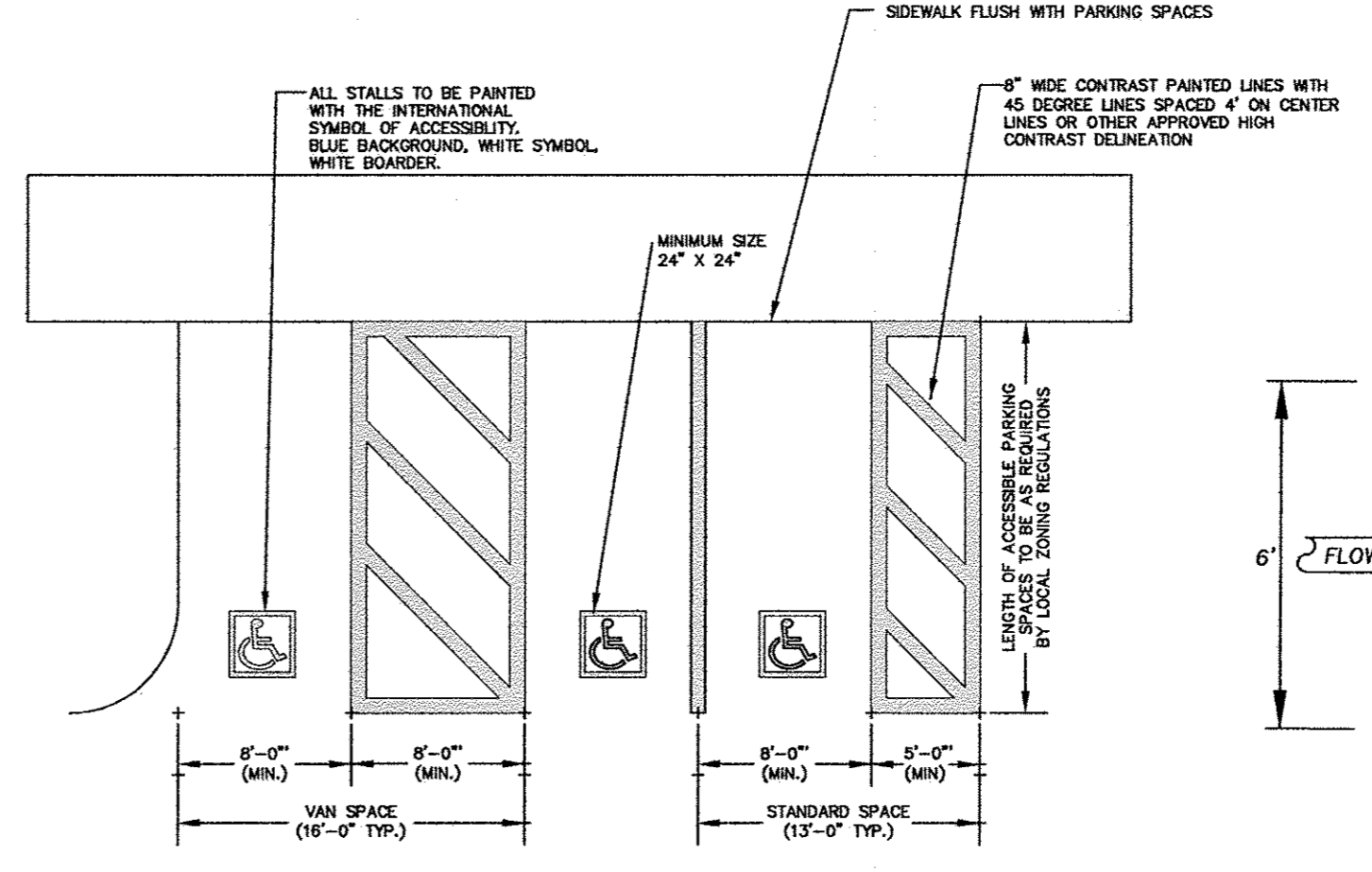
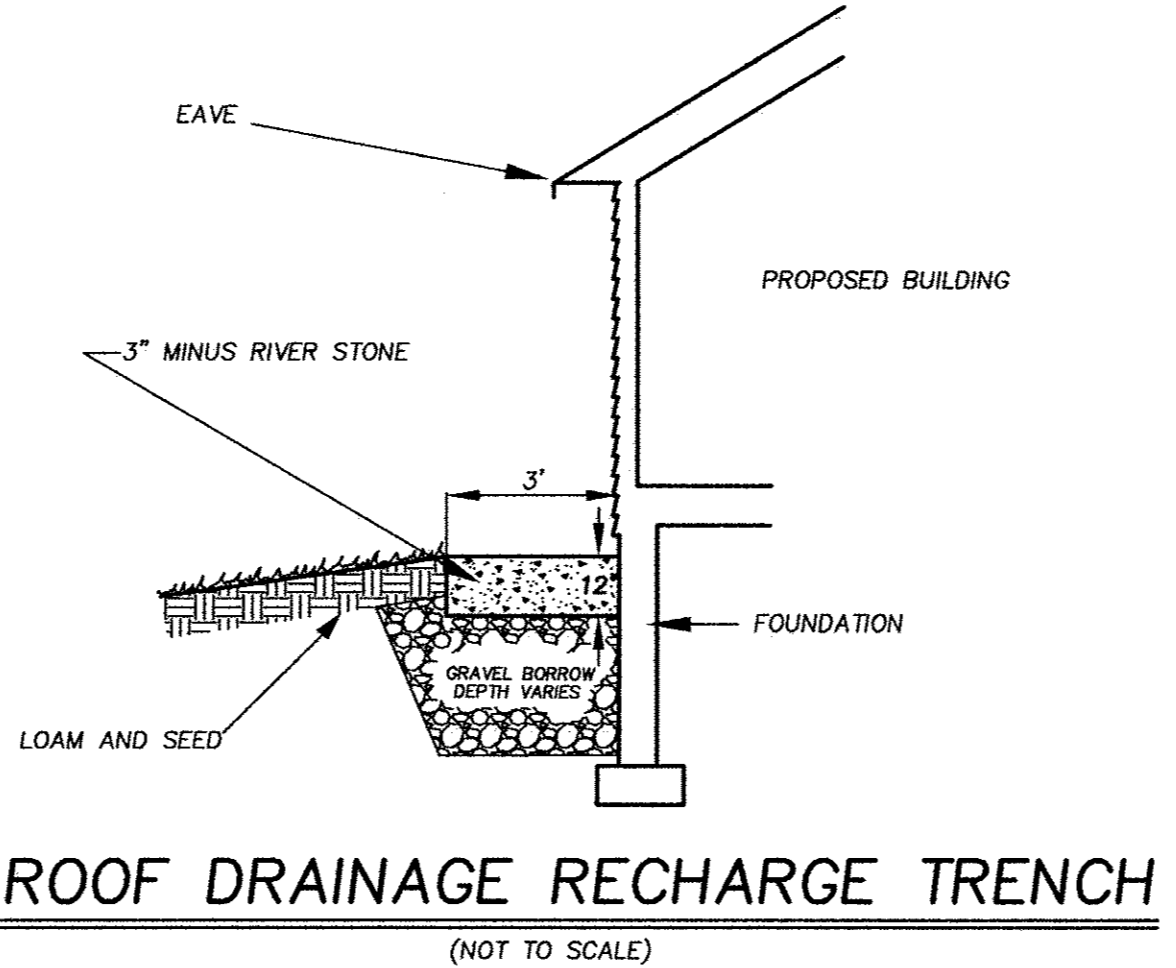
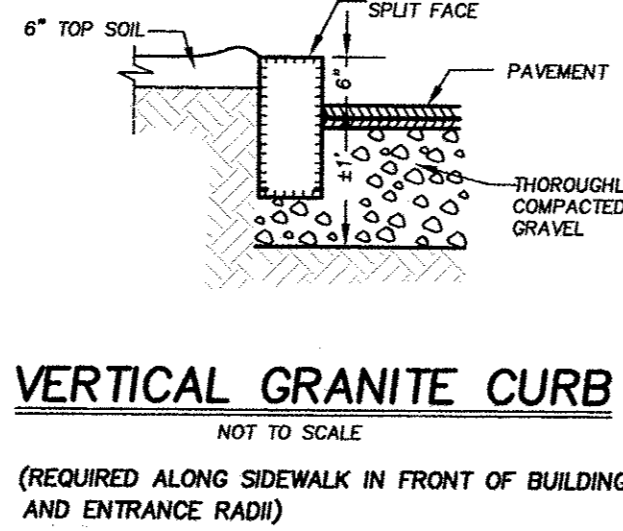
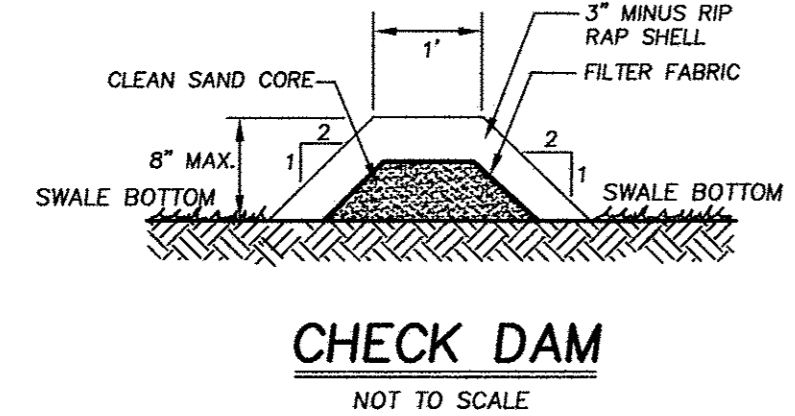
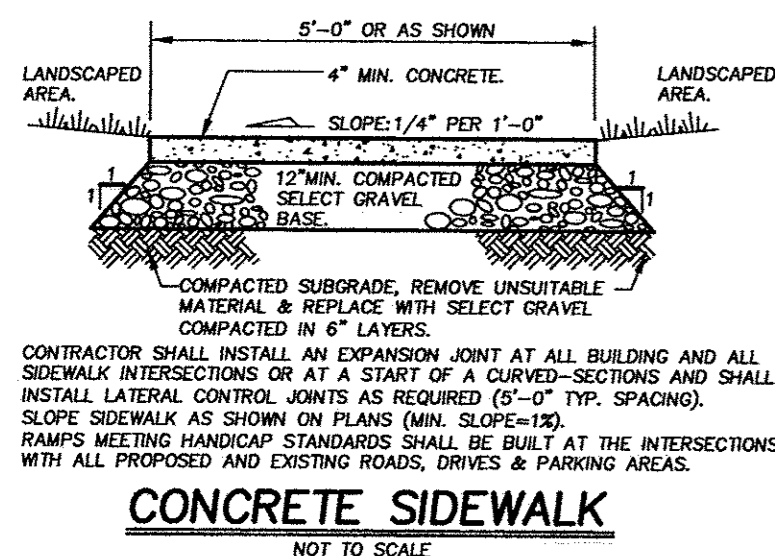
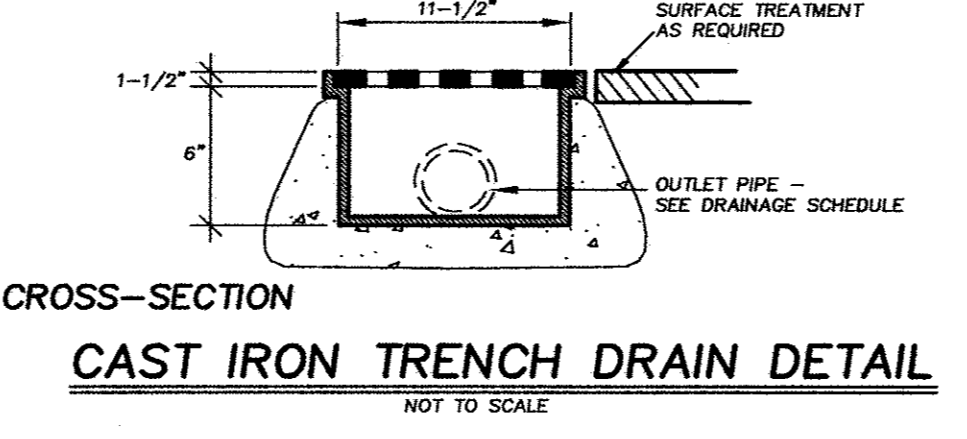
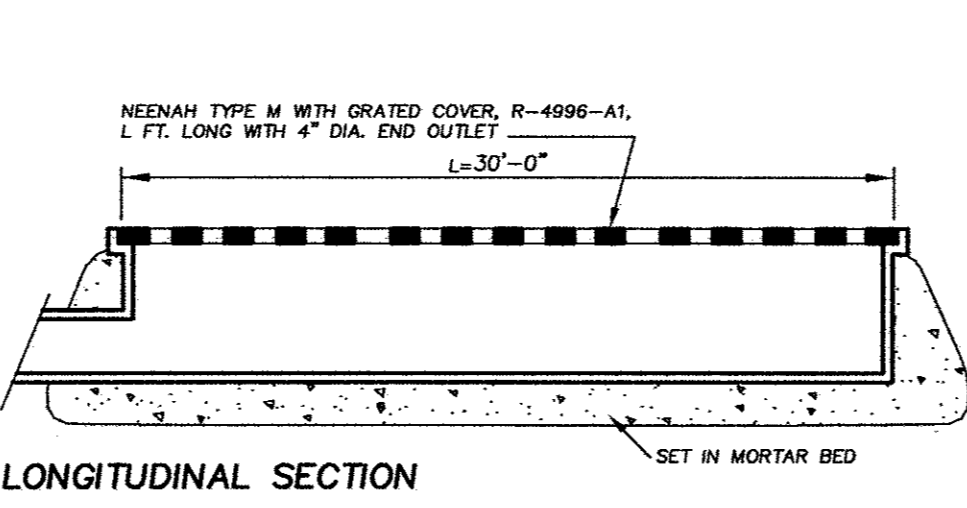
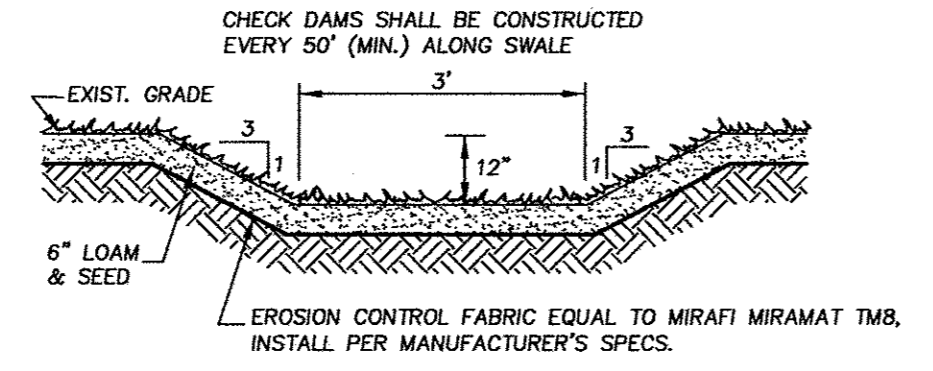
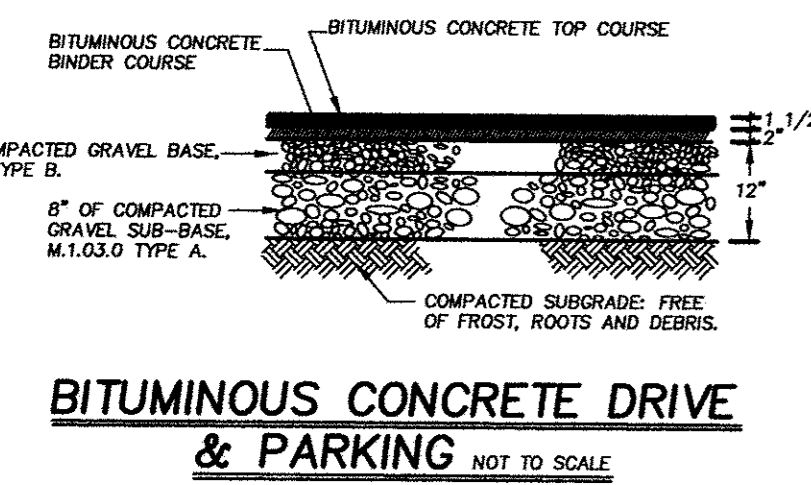


DATE OF ENDORSEMENT & APPROVAL: \_\_\_\_\_  
CHAIRMAN: \_\_\_\_\_

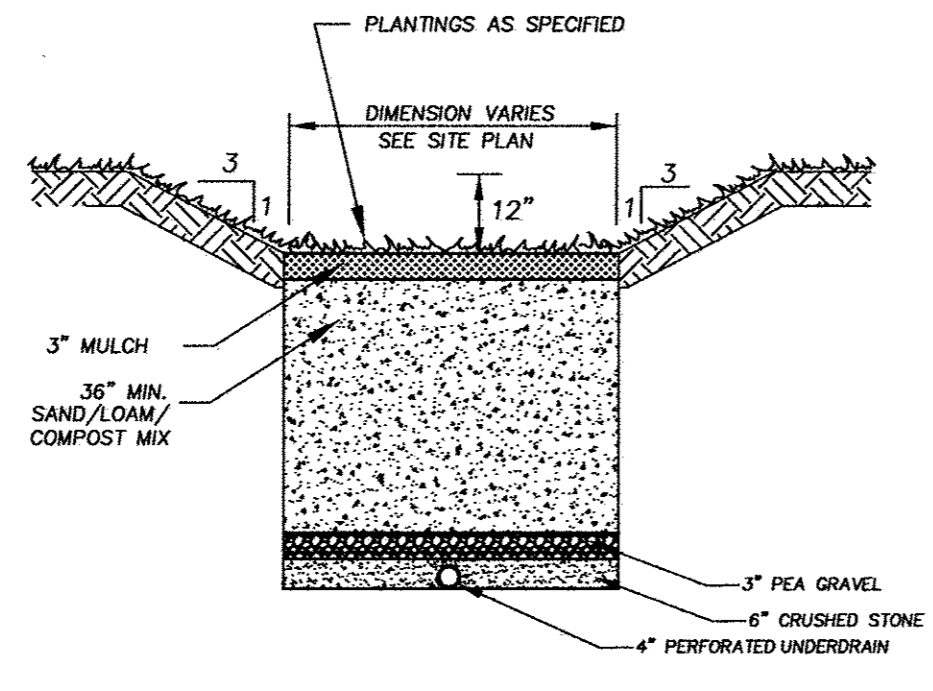
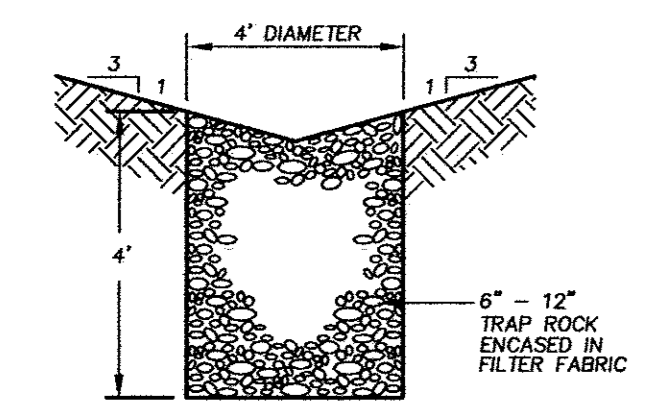


**GENERAL NOTES:**  
1,500 GAL. PRECAST STEEL REINFORCED CONCRETE CHAMBER CAPABLE OF DIRECT H-20 LOADING W/INTERIOR BAFFLE(S). SUBMIT SHOP DRAWINGS FOR APPROVAL.  
MORTAR ALL JOINTS & CONNECTIONS WATER-TIGHT. PROVIDE FLEXIBLE PIPE JOINT WITHIN 4".  
ORIFICE, INVERT ELBOW AND OUTLET PIPES TO MATCH INLET DIAMETER. SEE SCHEDULE FOR SIZE & INVERT ELEVATIONS.  
INSTALL CAST-IN HIGH DENSITY POLYPROPYLENE STEPS 18" O.C. MIN

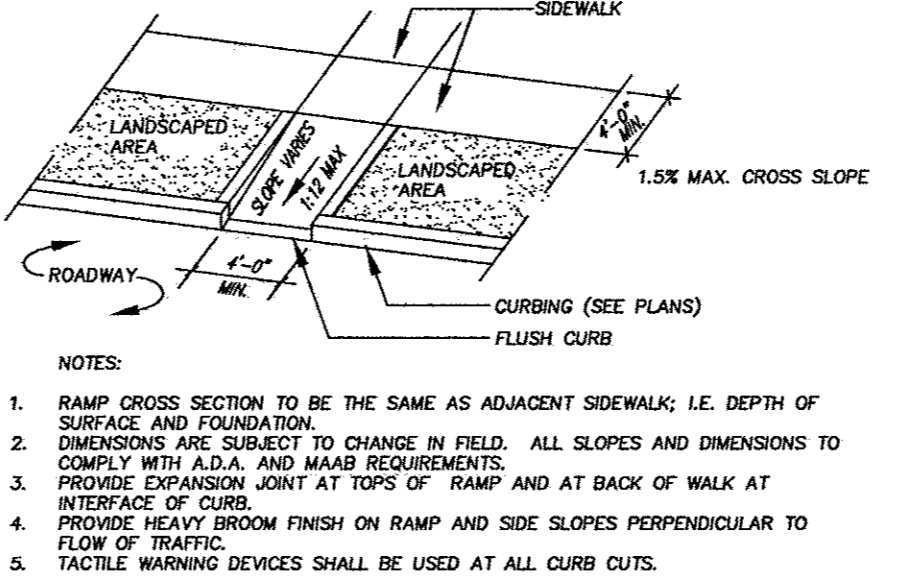
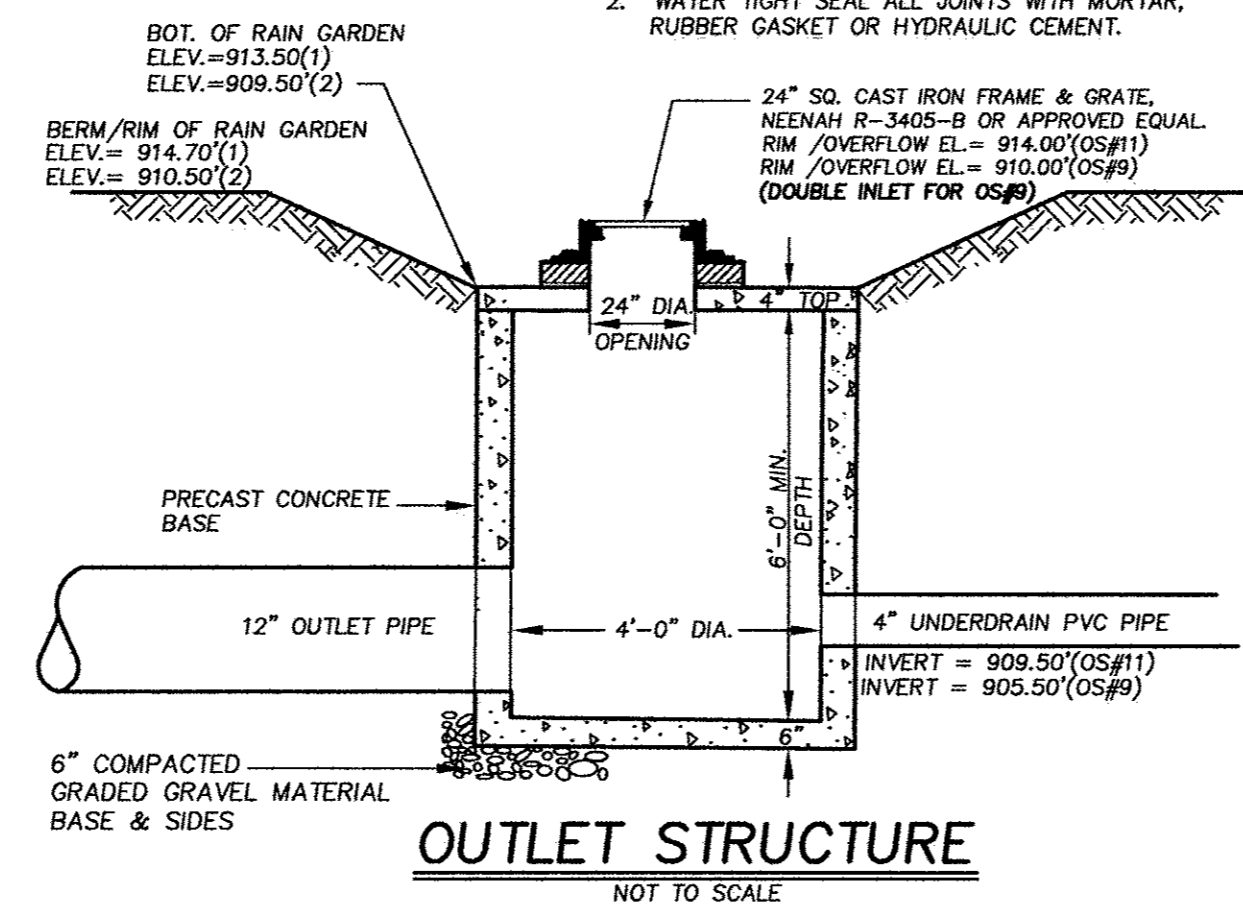
**DRAINAGE WATER QUALITY INLET**  
NOT TO SCALE



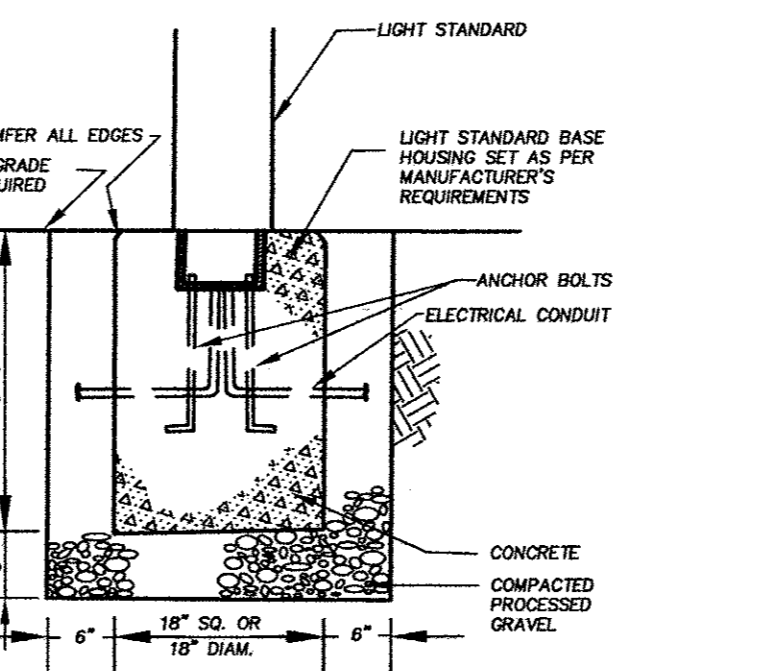
- NOTES:**
- 1) PARKING SPACES SHALL MEET THE REQUIREMENTS OF THE CODE OF MASSACHUSETTS REGULATIONS ARCHITECTURAL ACCESS BOARD - 521CMR.
  - 2) PARKING SPACES AND ACCESS ISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 (2%) IN ALL DIRECTIONS.
  - 3) ACCESS ISLES ADJACENT TO ACCESSIBLE PARKING SPACES SHALL BE 5'-0" WIDE MINIMUM, EXCEPT ADJACENT VAN ACCESSIBLE SPACES. THE ACCESS ISLE SHALL BE A MINIMUM 8'-0" WIDE MINIMUM. A MINIMUM OF ONE VAN SPACE SHALL BE PROVIDED PER SITE.
  - 4) TWO ACCESSIBLE SPACES MAY SHARE A COMMON ACCESS ISLE.
  - 5) A SIGN, IDENTIFYING ACCESSIBLE PARKING SPACES AS RESERVED, SHALL BE LOCATED AT THE HEAD OF EACH SPACE AND NO MORE THAN 10'-0" AWAY. THE SIGN SHALL BE AS SPECIFIED BY THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), R28-31 OR APPROVED EQUAL.
  - 6) AT LEAST ONE VAN ACCESSIBLE SPACE SHALL BE PROVIDED. SIGNS AT THE HEAD OF VAN ACCESSIBLE SPACES SHALL INCLUDE THE WORDS: VAN ACCESSIBLE.
  - 7) TACTILE WARNING DEVICES SHALL BE USED AT ALL RAMP.



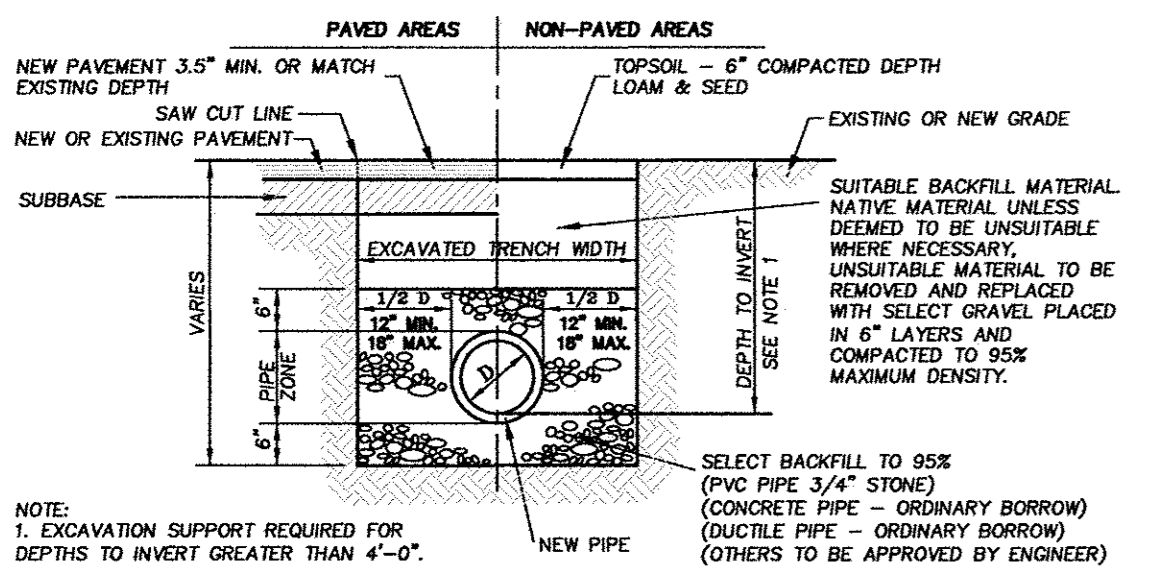
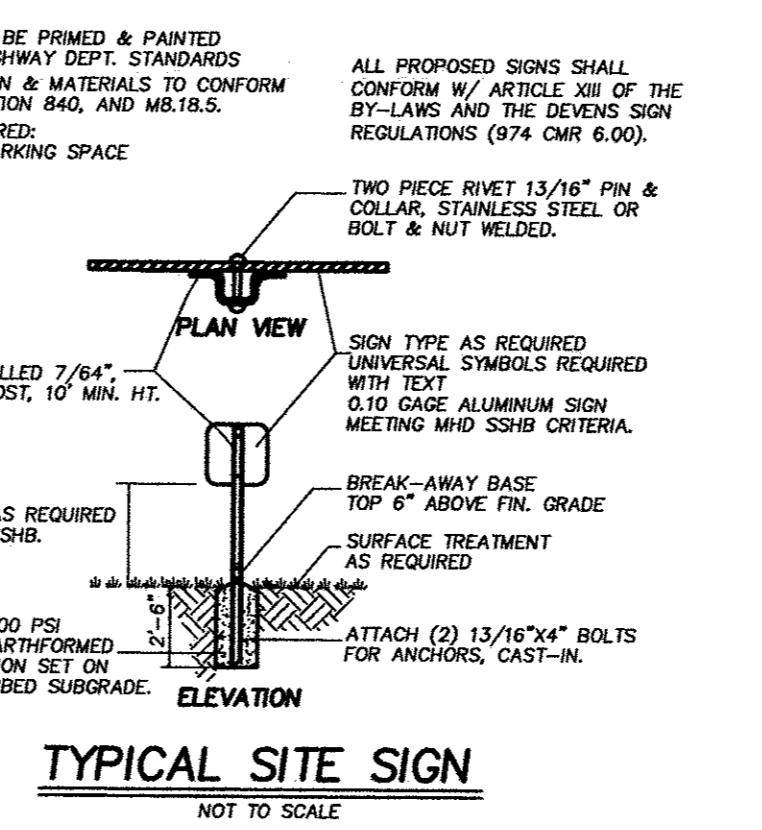
- NOTES:**
1. ALL CONCRETE TO BE STEEL REINFORCED, PRE-CAST, 4,000 PSI, AIR-ENTRAINED, AND BE CERTIFIED BY MANUFACTURER TO MEET ASHTO, HS-10 LOADING.
  2. WATER TIGHT SEAL ALL JOINTS WITH MORTAR, RUBBER GASKET OR HYDRAULIC CEMENT.



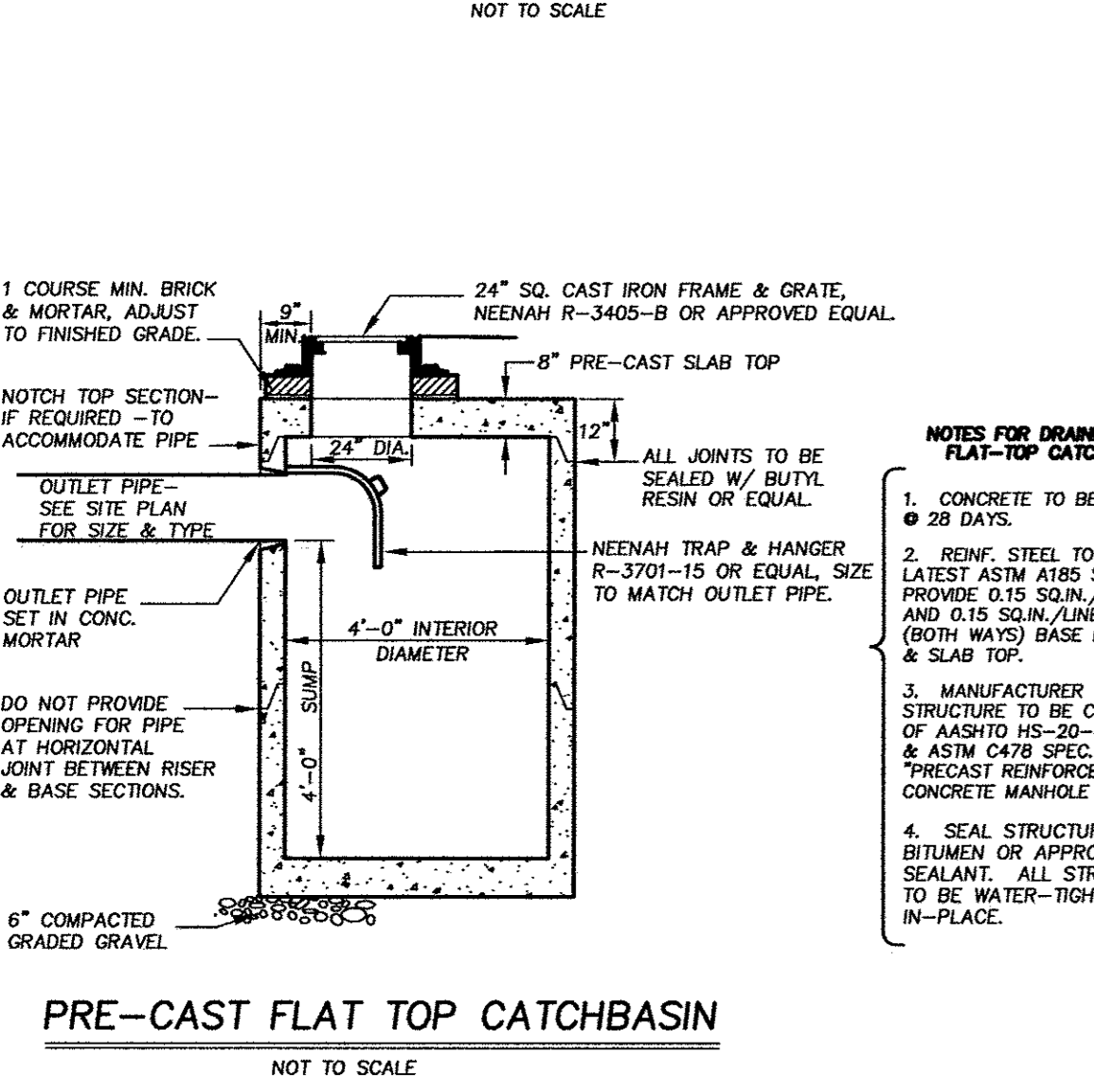
- NOTES:**
1. RAMP CROSS SECTION TO BE THE SAME AS ADJACENT SIDEWALK; I.E. DEPTH OF SURFACE AND FOUNDATION.
  2. DIMENSIONS ARE SUBJECT TO CHANGE IN FIELD. ALL SLOPES AND DIMENSIONS TO COMPLY WITH ADA, AND MAAB REQUIREMENTS.
  3. PROVIDE EXPANSION JOINT AT TOPS OF RAMP AND AT BACK OF WALK AT INTERFACE OF CURB.
  4. PROVIDE HEAVY BRUSH FINISH ON RAMP AND SIDE SLOPES PERPENDICULAR TO FLOW OF TRAFFIC.
  5. TACTILE WARNING DEVICES SHALL BE USED AT ALL CURB CUTS.



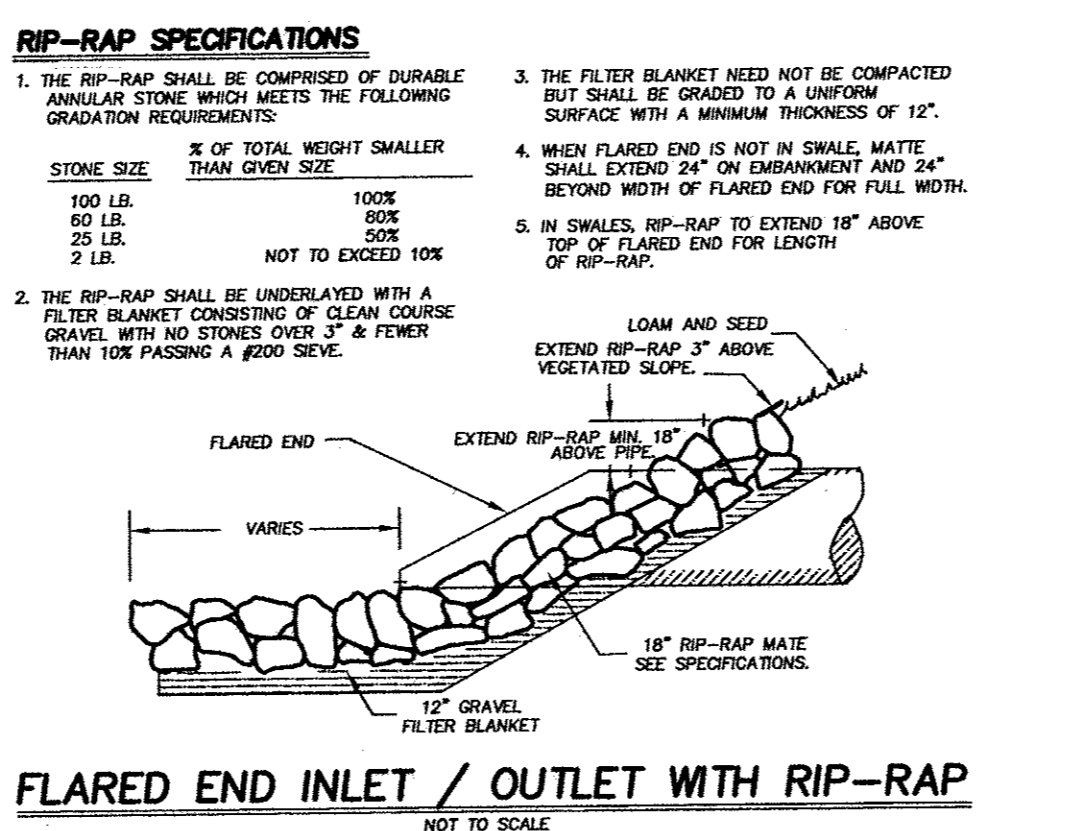
- NOTES:**
1. ALL SURFACES TO BE PRIMED & PAINTED MEETING MASS HIGHWAY DEPT. STANDARDS.
  2. SIGN CONSTRUCTION & MATERIALS TO CONFORM TO MHDSSHB, SECTION 840, AND MR.18.S.
  3. SIGN TYPES REQUIRED:  
"H" HANDICAP PARKING SPACE  
"OW" ONE WAY



**WATER MAINS & STORM DRAINS & SANITARY SEWER EXCAVATION & BACKFILL LIMITS**



- NOTES FOR DRAINMANHOLE & FLAT-TOP CATCHBASIN**
1. CONCRETE TO BE 4,000 PSI @ 28 DAYS.
  2. REINF. STEEL TO CONFORM TO LATEST ASTM A603 SPEC. PROVIDE 0.15 SQ IN./LINEAL FT AND 0.15 SQ IN./LINEAL FOOT (BOTH WAYS) BASE BOTTOM & SLAB TOP.
  3. MANUFACTURER TO CERTIFY STRUCTURE TO BE CAPABLE OF ASHTO HS-20-44 LOADING & ASTM C478 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS."
  4. SEAL STRUCTURE WITH BITUMEN OR APPROVED SEALANT. ALL STRUCTURES TO BE WATER-TIGHT IN-PLACE.



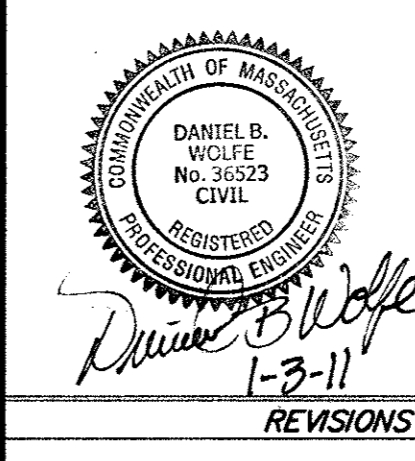
**RIP-RAP SPECIFICATIONS**

1. THE RIP-RAP SHALL BE COMPRISED OF DURABLE ANGULAR STONE WHICH MEETS THE FOLLOWING GRADATION REQUIREMENTS:
- | STONE SIZE | % OF TOTAL WEIGHT SMALLER THAN GIVEN SIZE |
|------------|---|
| 100 LB.    | 100%                                      |
| 50 LB.     | 80%                                       |
| 25 LB.     | 50%                                       |
| 2 LB.      | NOT TO EXCEED 10%                         |
2. THE RIP-RAP SHALL BE UNDERLAYED WITH A FILTER BLANKET CONSISTING OF CLEAN COURSE GRAVEL WITH NO STONES OVER 3/4" & FEWER THAN 10% PASSING A #200 SEIVE.
  3. THE FILTER BLANKET NEED NOT BE COMPACTED BUT SHALL BE GRADED TO A UNIFORM SURFACE WITH A MINIMUM THICKNESS OF 12".
  4. WHEN FLARED END IS NOT IN SWALE, MATTE SHALL EXTEND 24" ON SUBGRADE AND 24" BEYOND WIDTH OF FLARED END FOR FULL WIDTH.
  5. IN SWALES, RIP-RAP TO EXTEND 18" ABOVE TOP OF FLARED END FOR LENGTH OF RIP-RAP.

**STORMWATER DRAINAGE SCHEDULE OF ELEVATIONS**

LOCATION	SURFACE ELEVATION	INVERT ELEVATION	STRUCTURE DIAM., FT.	PIPE SIZE, IN.	LENGTH, FT.	PIPE SLOPE FT. / FT.
LOCATION #1 (CTB) TO LOCATION #2 (WCK)	914.70	911.70	4'	12"	13'	0.01
LOCATION #3 (CTB) TO LOCATION #4 (FES)	915.80	912.80	4'	12"	16'	0.01
LOCATION #5 (CTB) TO LOCATION #6 (WCI)	911.70	907.70	4'	8"	31'	0.021
LOCATION #7 (TD) TO LOCATION #8 (WCI)	210.40	907.06	NA	8"	5'	0.01
LOCATION #9 (WCI) TO LOCATION #10 (PIPE)	909.30	908.72	NA	4"	22'	0.06
LOCATION #11 (OS) TO LOCATION #12 (WCK)	910.40	907.39	NA	8"	14'	0.01
LOCATION #13 (OS) TO LOCATION #14 (WCK)	909.50	906.76	4'	12"	182'	0.016
LOCATION #15 (OS) TO LOCATION #16 (WCK)	910.00	904.45	4'	12"	14'	0.01
LOCATION #17 (OS) TO LOCATION #18 (WCK)	914.00	911.00	4'	12"	182'	0.016
LOCATION #19 (OS) TO LOCATION #20 (WCK)	909.50	908.00	4'	12"	182'	0.016

CTB = CATCHBASIN  
WCK = WICK  
FES = FLARED END SECTION  
WCI = WATER QUALITY INLET  
TD = TRENCH DRAIN  
OS = OUTLET STRUCTURE



**873 MAIN STREET CONSTRUCTION DETAILS**

SITE PLAN IN  
**Ashby, Mass.**  
PREPARED FOR  
**DLR REALTY TRUST**

SCALE: NTS  
DECEMBER, 2010

**David E. Ross Associates, Inc.**  
CIVIL ENGINEERS - LAND SURVEYORS  
ENVIRONMENTAL CONSULTANTS  
PO BOX 368-111 FITCHBURG RD, AYER, MA 01432  
(TEL. NO. 978-772-6232)

JOB NO. 24062 SHEET 10 OF 11 PLAN NO. L-11529