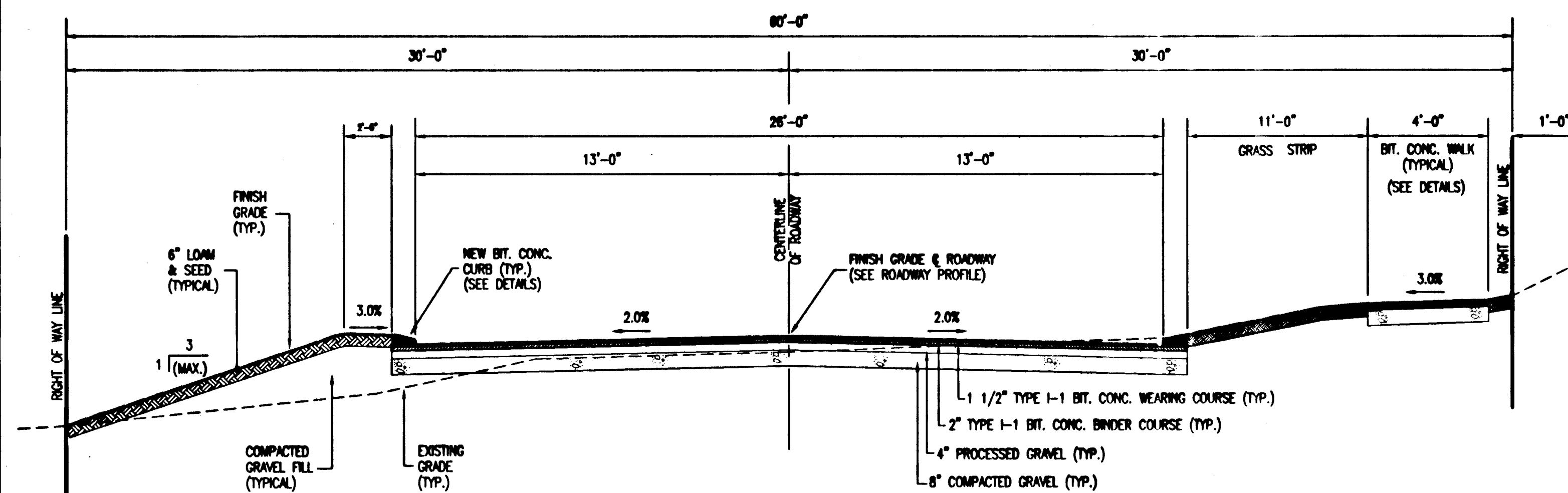
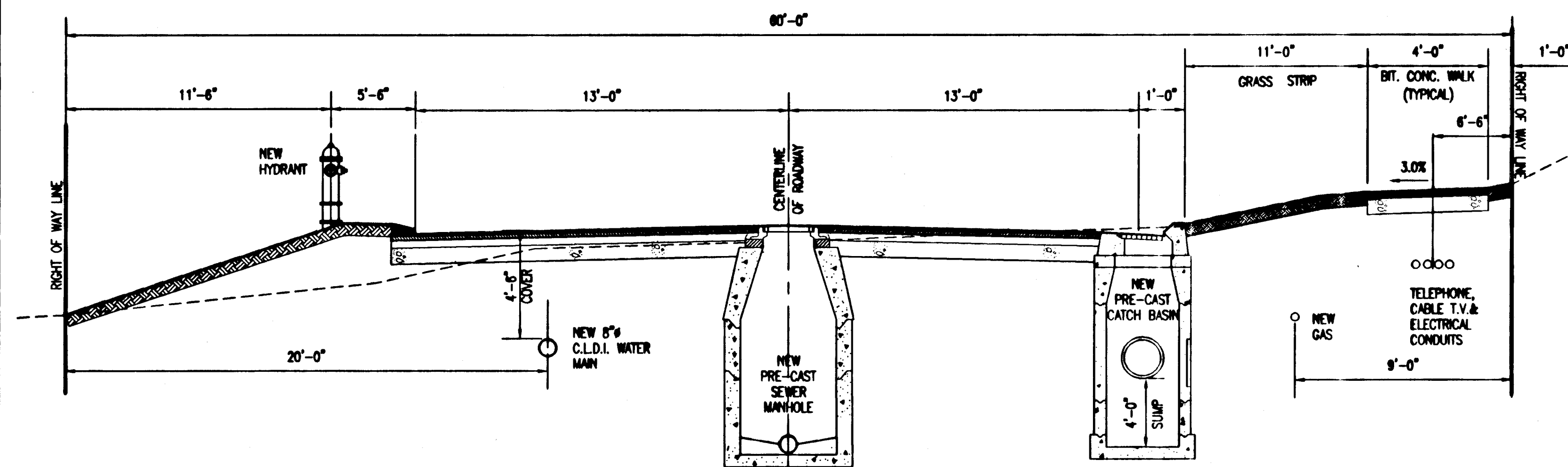


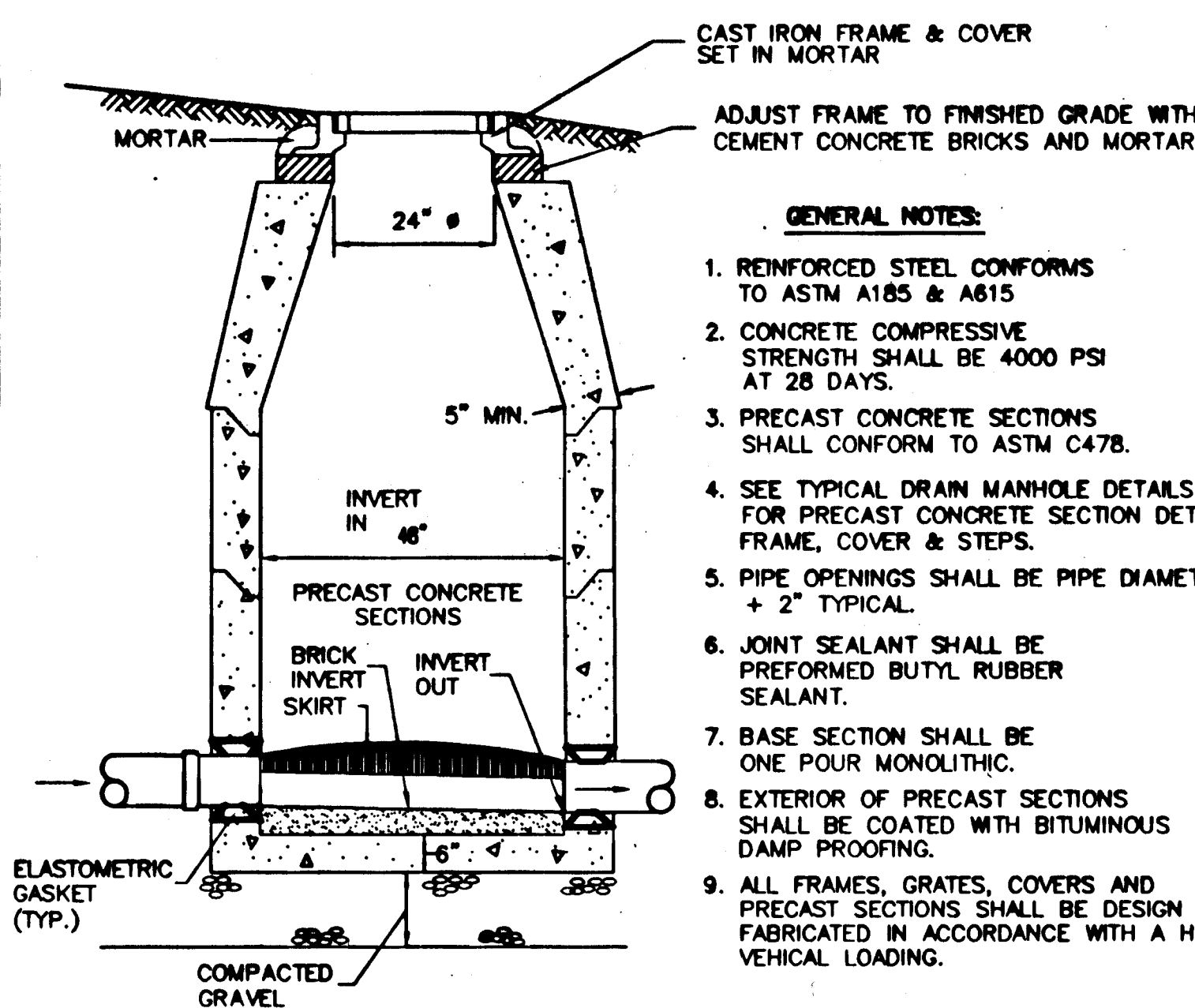


1 **TYPICAL ROADWAY SECTION**
SCALE: 1/4"=1'-0"



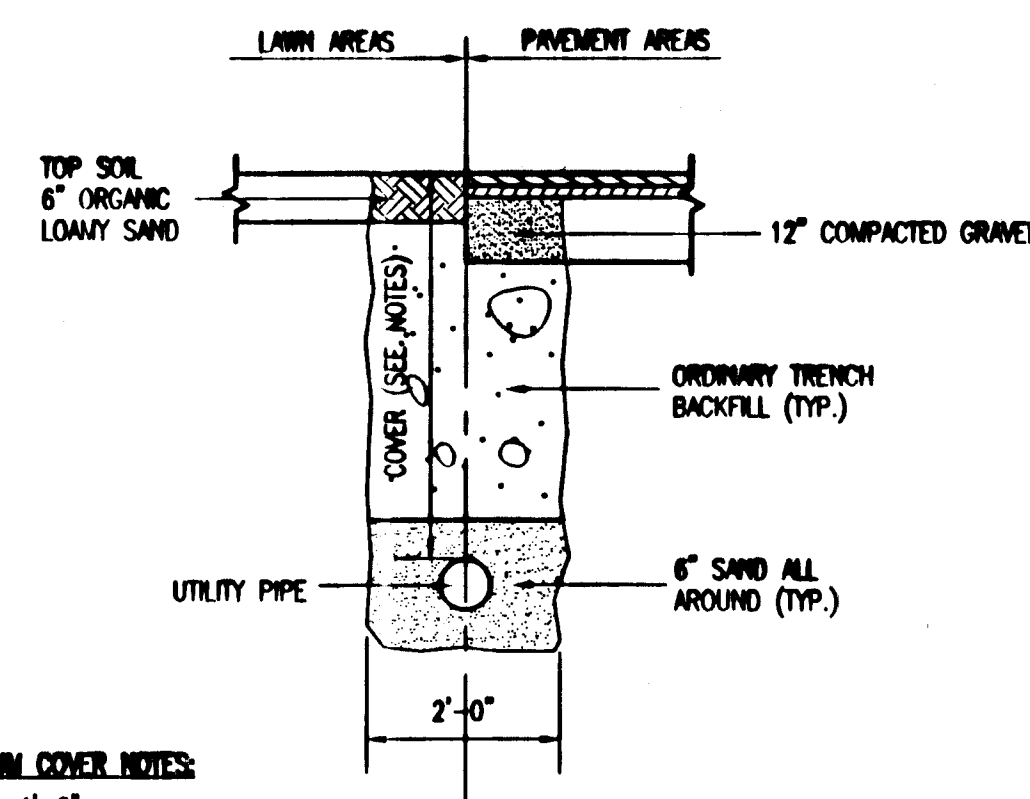
2 **TYPICAL ROADWAY SECTION**
SCALE: 1/4"=1'-0"

ALL MATERIALS AND CONSTRUCTION METHODS TO COMPLY WITH THE STANDARDS OF THE BOARD OF PUBLIC WORKS OF EAST LONGMEADOW



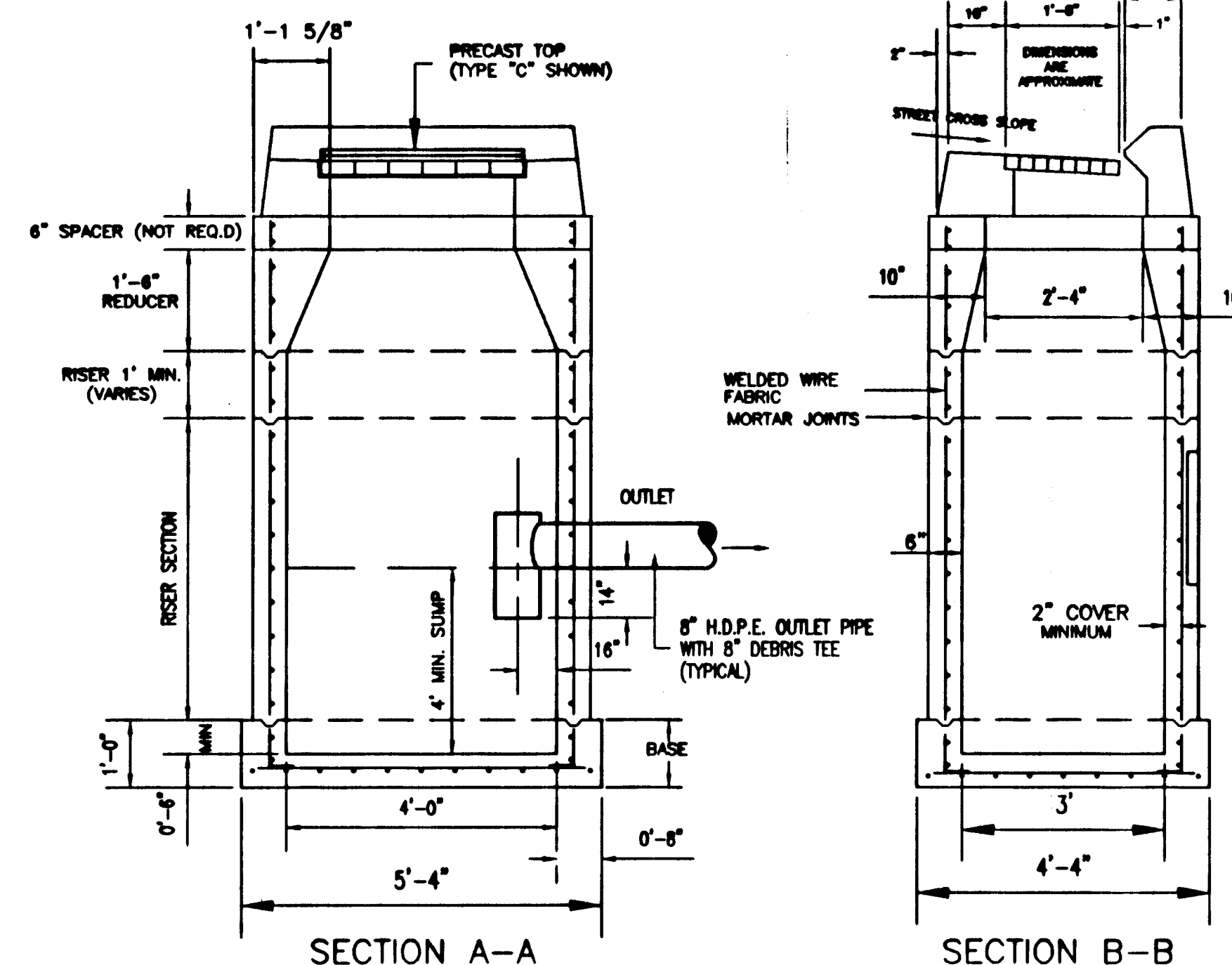
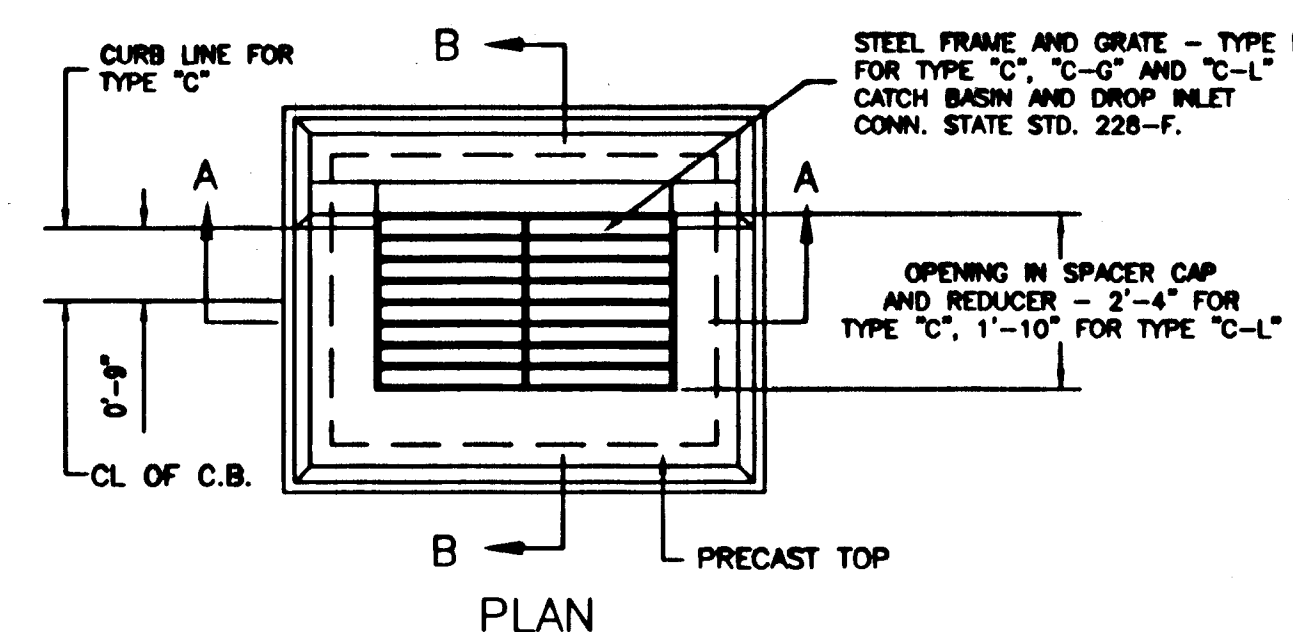
- GENERAL NOTES:**
1. REINFORCED STEEL CONFORMS TO ASTM A185 & A815
 2. CONCRETE COMPRESSIVE STRENGTH SHALL BE 4000 PSI AT 28 DAYS.
 3. PRECAST CONCRETE SECTIONS SHALL CONFORM TO ASTM C478.
 4. SEE TYPICAL DRAIN MANHOLE DETAILS FOR PRECAST CONCRETE SECTION DETAILS, FRAME, COVER & STEPS.
 5. PIPE OPENINGS SHALL BE PIPE DIAMETER + 2" TYPICAL.
 6. JOINT SEALANT SHALL BE PREFORMED BUTYL RUBBER SEALANT.
 7. BASE SECTION SHALL BE ONE POUR MONOLITHIC.
 8. EXTERIOR OF PRECAST SECTIONS SHALL BE COATED WITH BITUMINOUS DAMP PROOFING.
 9. ALL FRAMES, GRATES, COVERS AND PRECAST SECTIONS SHALL BE DESIGN AND FABRICATED IN ACCORDANCE WITH A HS20 VEHICULAR LOADING.

3 **TYPICAL SEWER MANHOLE**
NOT TO SCALE

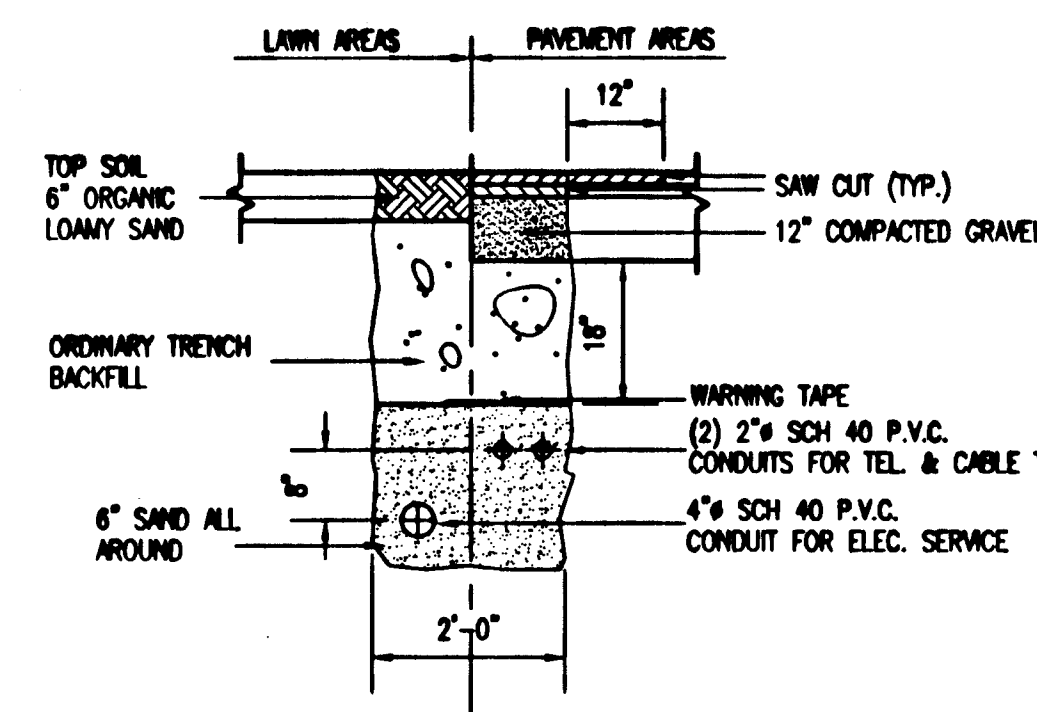


MINIMUM COVER NOTES:
WATER: 4'-6"
SEWER: 4'-0"
DRAINAGE: 4'-0"

4 **TYPICAL UTILITY TRENCH DETAILS**
1/8" = 1'-0"



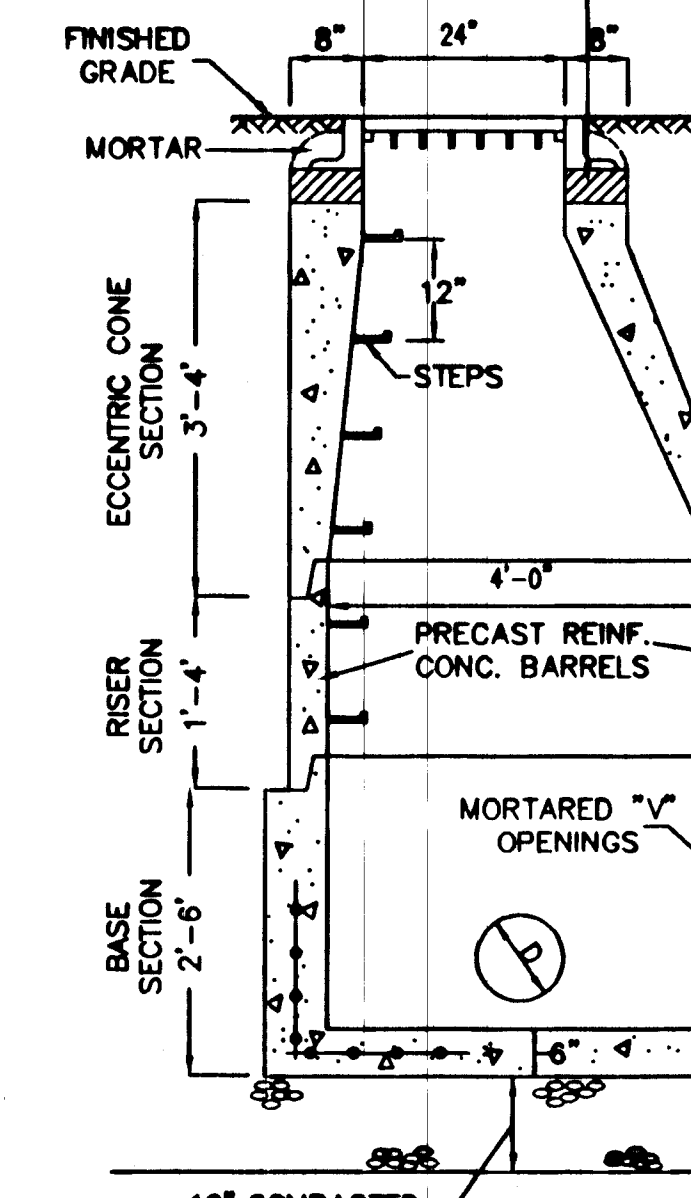
5 **TYPICAL CATCH BASIN TYPE "C" OR "CL"**
NOT TO SCALE



- NOTES:**
1. ALL UTILITY INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL UTILITY PROVIDER / COMPANY.

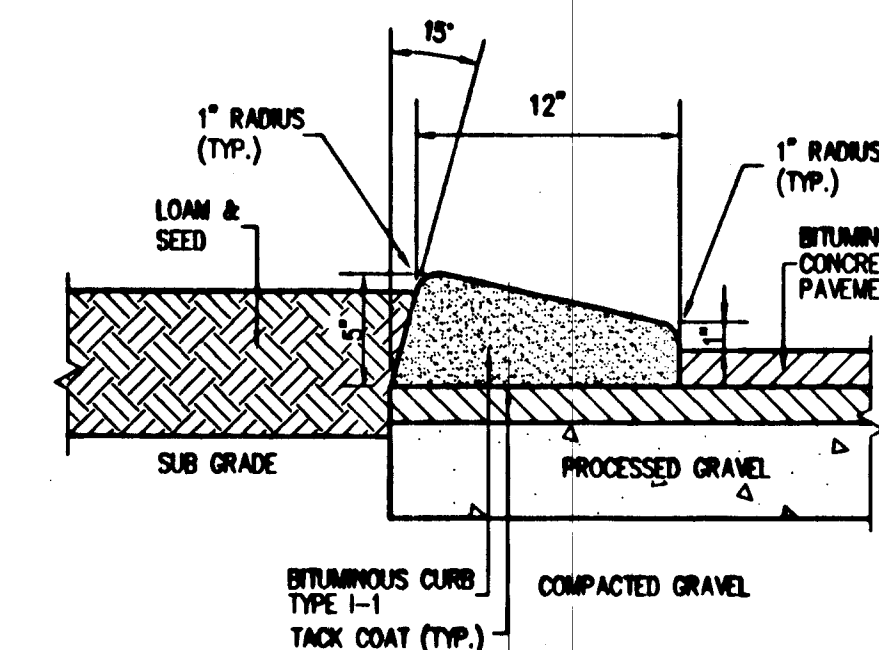
6 **UNDERGROUND ELECTRICAL TYPICAL TRENCH DETAILS**
1/8" = 1'-0"

CAST IRON FRAME & COVER (LEBARON LT 104 w/ LETTER "D") SET IN FULL BED OF MORTAR. ADJUST TO GRADE AS REQUIRED WITH VITRIFIED CLAY BRICK AND MORTAR.



- GENERAL NOTES:**
1. REINFORCED STEEL CONFORMS TO LATEST A185 SPEC. 0.12 SQ. IN./LINEAL FT. AND 0.12 SQ. IN.(BOTH WAYS) BASE BOTTOM.
 2. CONCRETE COMPRESSIVE STRENGTH-4000 PSI MIN.
 3. MANHOLE DESIGN-SPECS. CONFORMS TO LATEST ASTM C478 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS".
 4. STEPS SHALL BE STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC PER ASTM C-478, PARA. 11.
 5. "V" PIPE OPENINGS w/ 2" MAX. OUTSIDE PIPE CLEARANCE TO BE CAST AS REQUIRED.
 6. JOINT SEALANT SHALL BE PREFORMED BUTYL RUBBER MASTIC TAPE SEAL THAT COMPLIES w/ AASHTO SPECIFICATION M-198 OR SYNTHETIC RUBBER GASKET THAT COMPLIES w/ C-443 OR C-361.
 7. BASE SECTION SHALL BE ONE POUR MONOLITHIC.

7 **TYPICAL DRAIN MANHOLE**
NOT TO SCALE



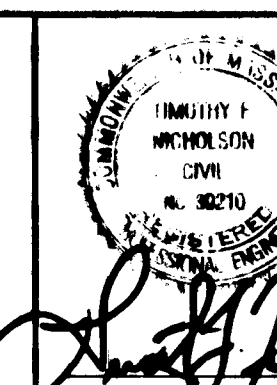
8 **BITUMINOUS CONCRETE CURB TYPE "A" MODIFIED**
SCALE: 1-1/2"=1'-0"

DRAWN BY: T.F.N.
DATE: 1/15/04
FILE: E:\PROJECTS\2003.01\DETAILS1
JOB NO.: 2003.01
CONTACT: MR. PETER SARES

REVISIONS		
SYMBOL	DATE	DESCRIPTION
Δ	3/15/04	REVISED IN ACCORDANCE WITH PLANNING BOARD COMMENT OF 2/25/04

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CONSTRUCTION DETAILS
DEFINITIVE SUBDIVISION PLAN
HALON ESTATES
EAST LONGMEADOW, MASSACHUSETTS

AS SHOWN

DATE: 1/15/04

SHEET 7 OF 8