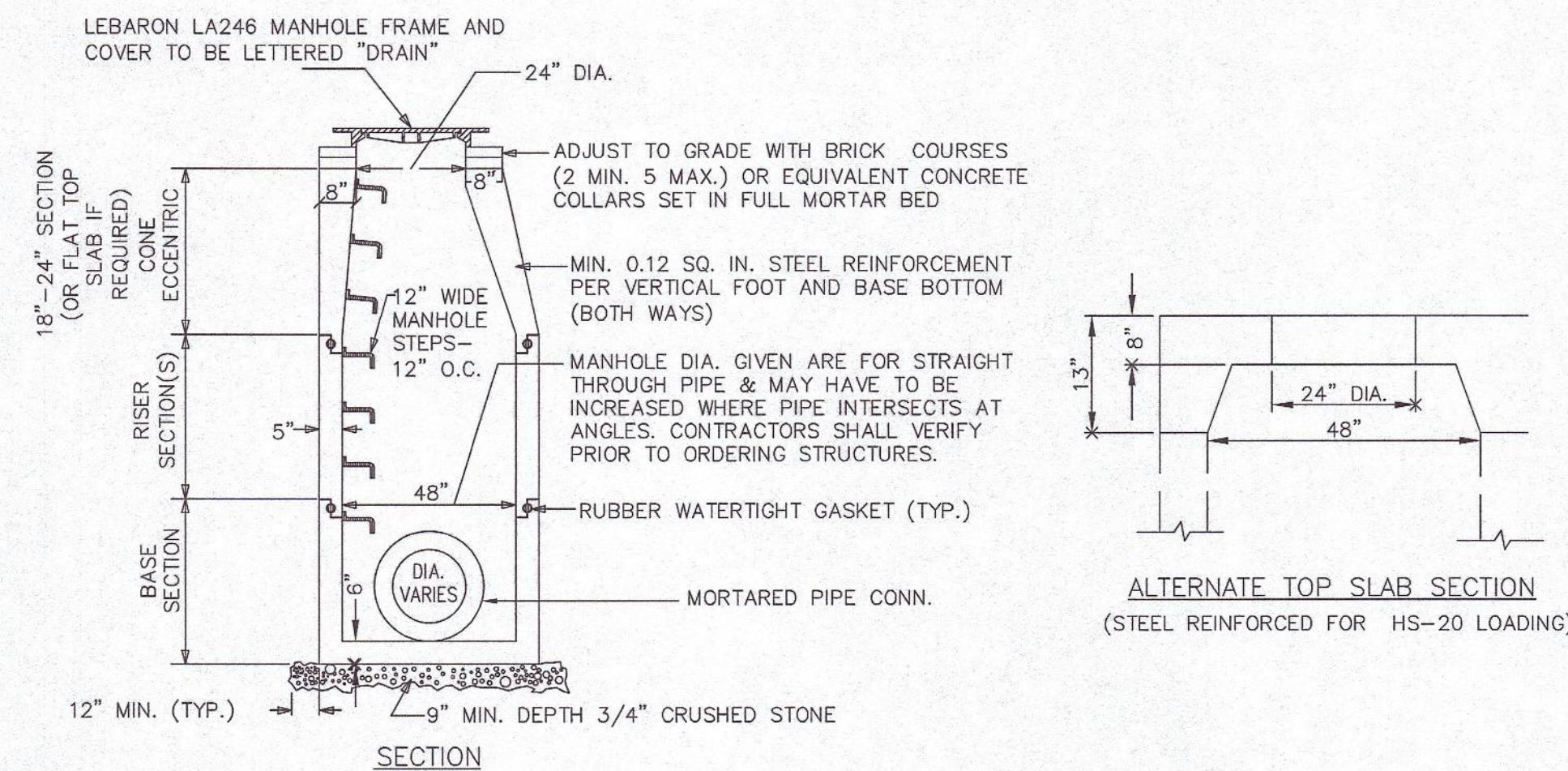


**NOTES:**

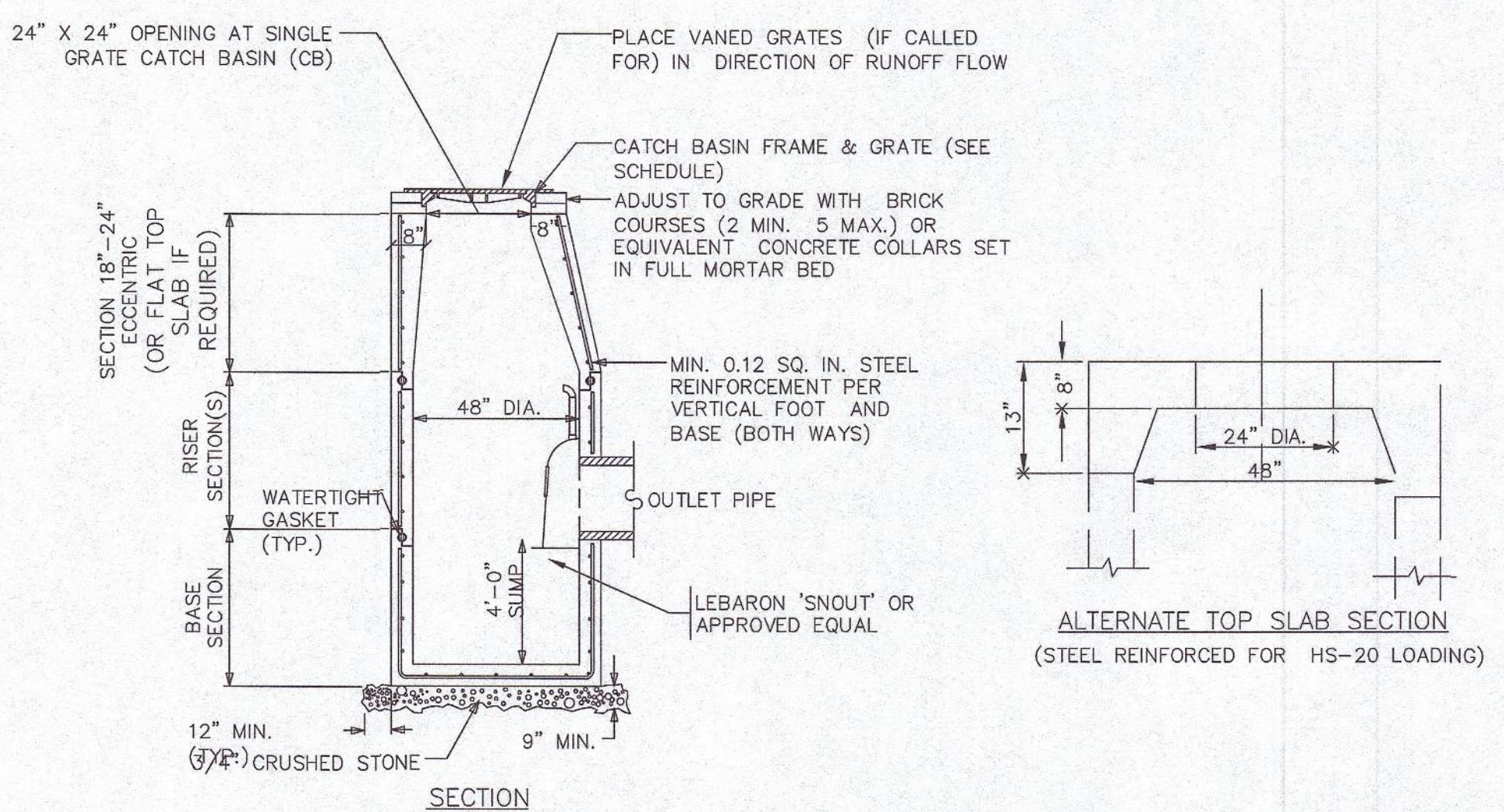
1. REINFORCED STEEL CONFORMS TO LATEST A185 SPEC. 0.12 SQ. IN./LINEAL FT. (0.15 SQ. IN. FOR 60" DIA) AND BASE BOTTOM.
2. CONCRETE COMPRESSIVE STRENGTH 4000 PSI MIN.
3. MANHOLE DESIGN CONFORMS TO LATEST ASTM C478 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS".
4. JOINT SEALANT SHALL BE SYNTHETIC RUBBER GASKET THAT COMPLIES W/ C-443 OR C-361. 5. BASE SECTION SHALL BE ONE POUR MONOLITHIC.



1 PRECAST CONCRETE DRAIN MANHOLE  
N.T.S.  
7.4

**NOTES:**

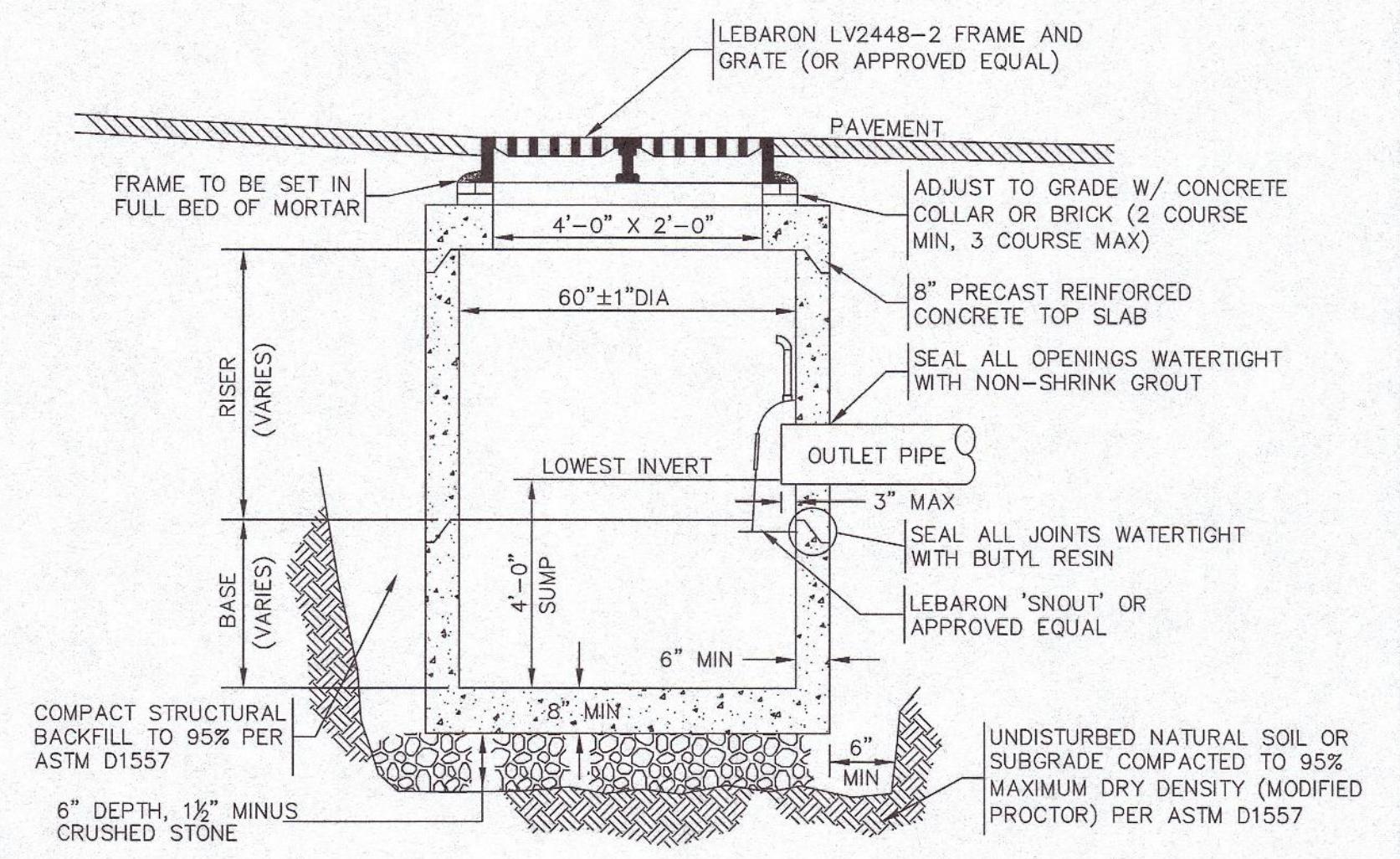
1. USE 4-FLANGE LEBARON LF248-2 GRATES AT ALL CB STRUCTURES.
2. SUBMIT SHOP DRAWINGS FOR APPROVAL.
3. REINFORCED STEEL CONFORMS TO LATEST A185 SPEC. 0.12 SQ. IN./LINEAL FT. (0.15 SQ. IN. FOR 60" DIA) AND BASE BOTTOM.
4. CONCRETE COMPRESSIVE STRENGTH 4000 PSI MIN.
5. JOINT SEALANT SHALL BE SYNTHETIC RUBBER GASKET THAT COMPLIES W/ C-443 OR C-361.



2 PRECAST CONCRETE DEEP SUMP CATCH BASIN  
N.T.S.  
7.4

**NOTES:**

1. 4,000 PSI PRECAST CONCRETE AT 28 DAYS CONFORMING WITH LATEST ASTM C478.
2. REINFORCING PER LATEST ASTM A185.
3. STRUCTURE SHALL BE RATED FOR H-20 LOADING UNLESS SPECIFIED OTHERWISE.
4. VERIFY FRAME AND GRATE TO SUIT APPLICATION.



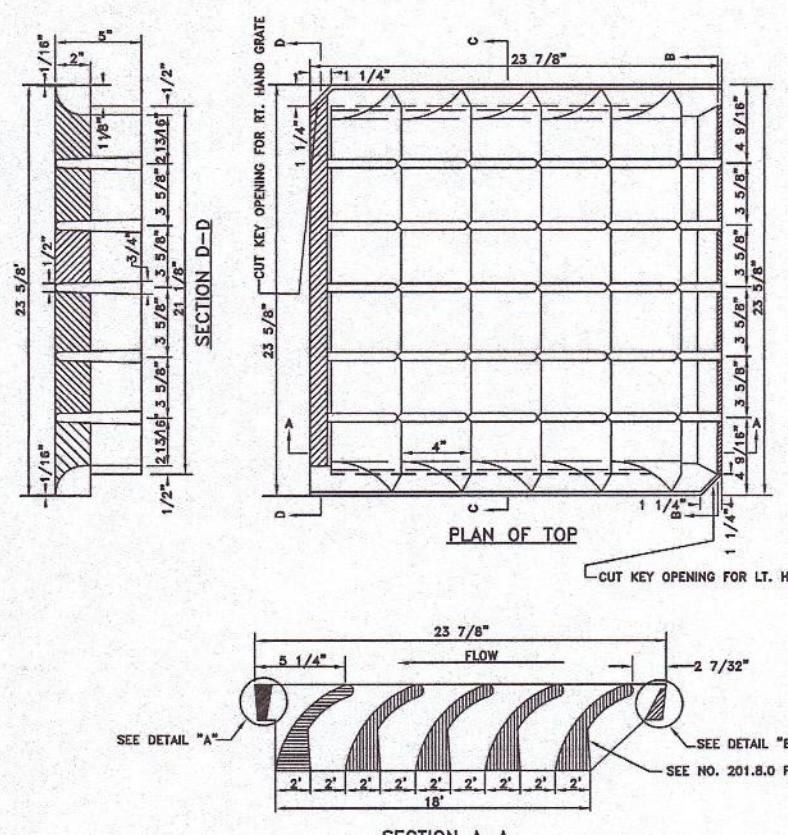
3 PRECAST CONCRETE DOUBLE GRATE DEEP SUMP CATCH BASIN  
N.T.S.  
7.4



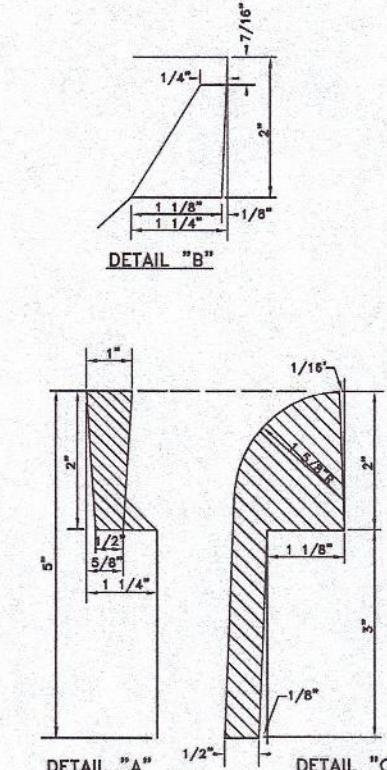
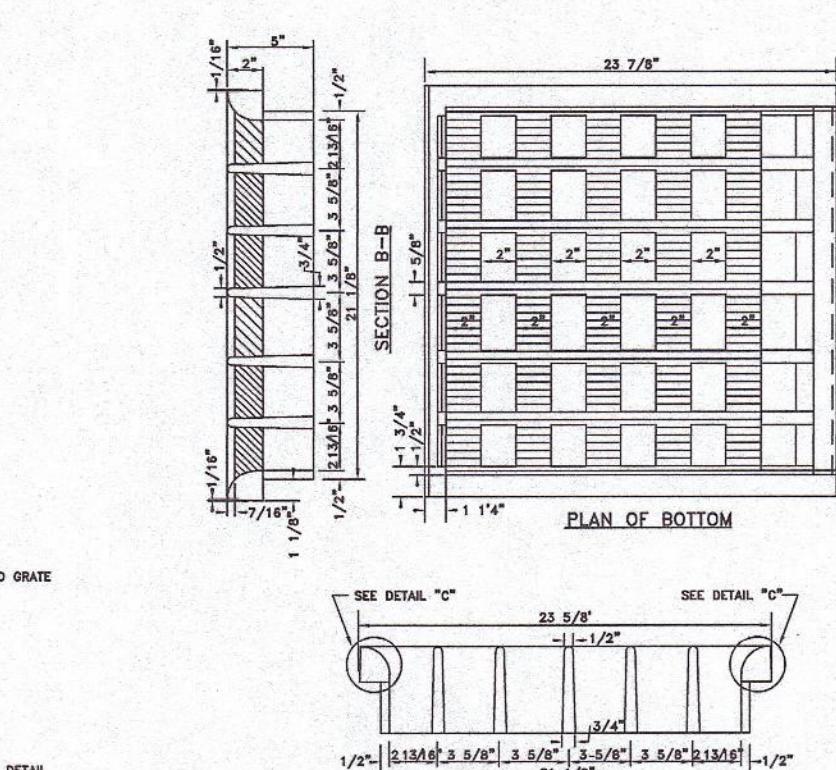
P.E. P.L.S.

**NOTE:**

1. CASCADE GRATES ARE REQUIRED WHERE THE ROAD GRADE IS 7% (SEVEN PERCENT) OR GREATER PER SUBDIVISION RULES AND REGULATIONS.

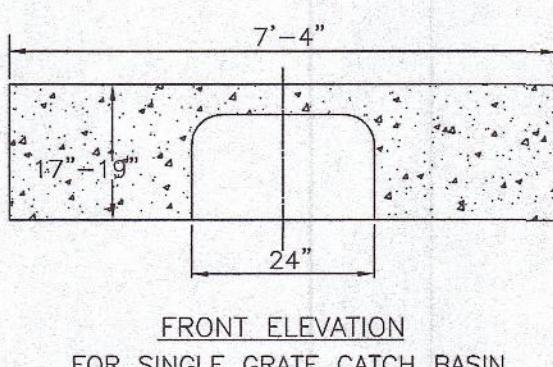


4 CASCADE CATCH BASIN GRATE  
N.T.S.  
7.4

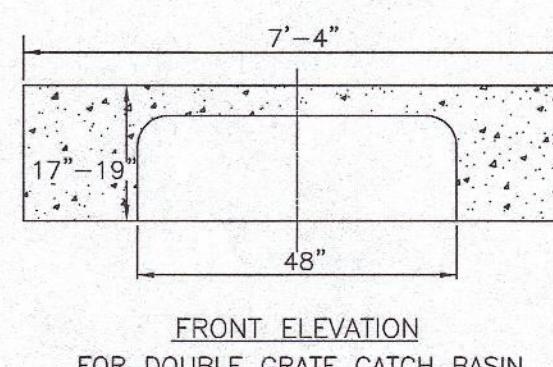


**NOTE:**

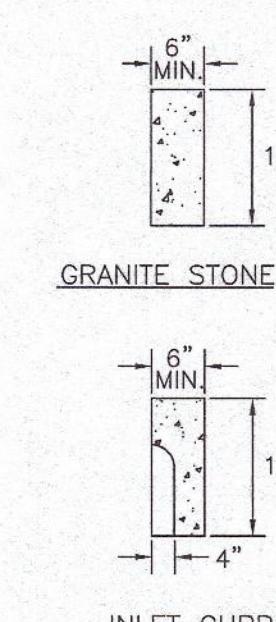
1. REQUIRED AT CATCH BASINS ADJACENT TO MODIFIED CAPE COD BERM.



FRONT ELEVATION  
FOR SINGLE GRATE CATCH BASIN



FRONT ELEVATION  
FOR DOUBLE GRATE CATCH BASIN



GRANITE CURB INLET STONE  
N.T.S.  
7.4

**REVISIONS**

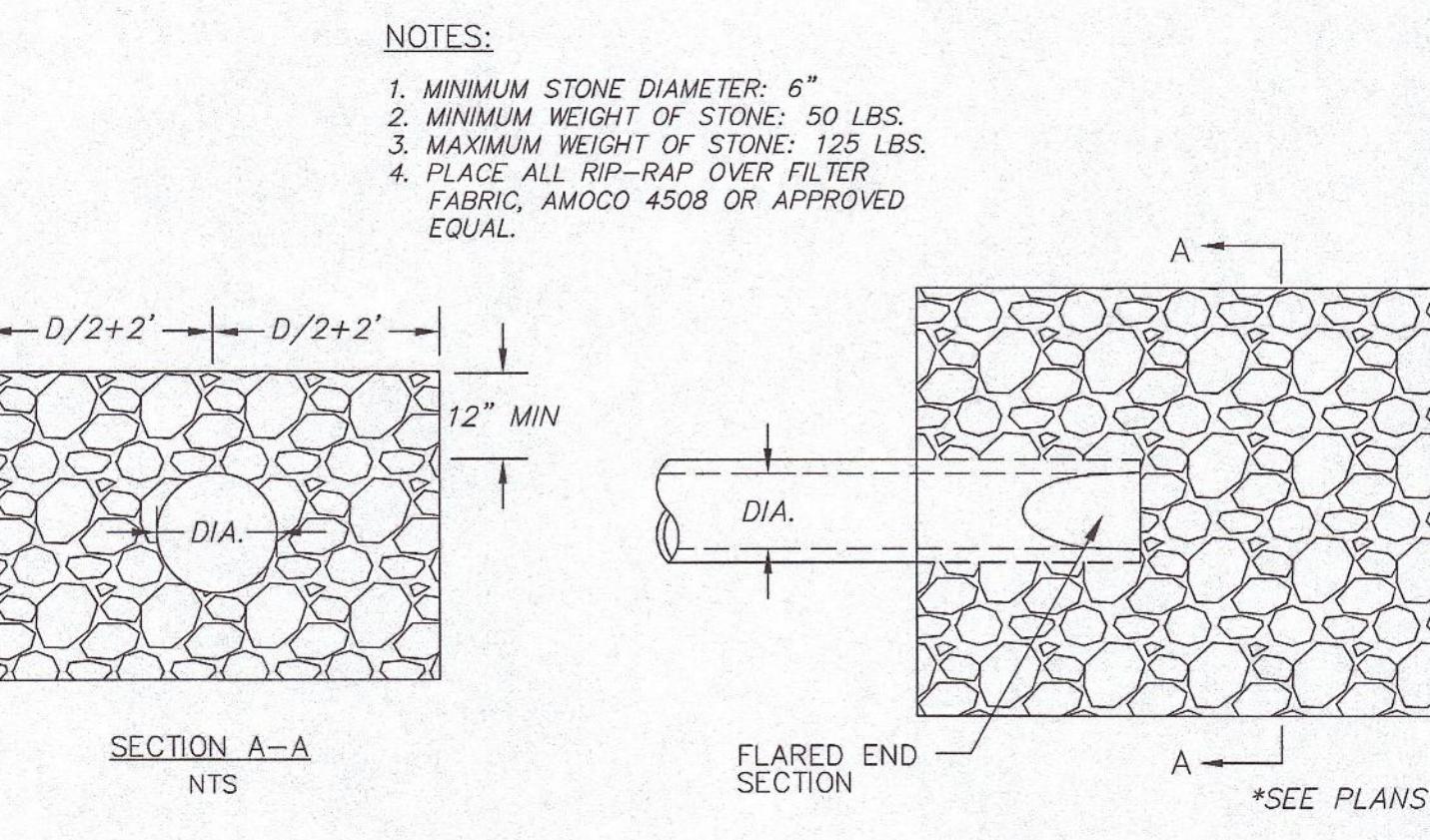
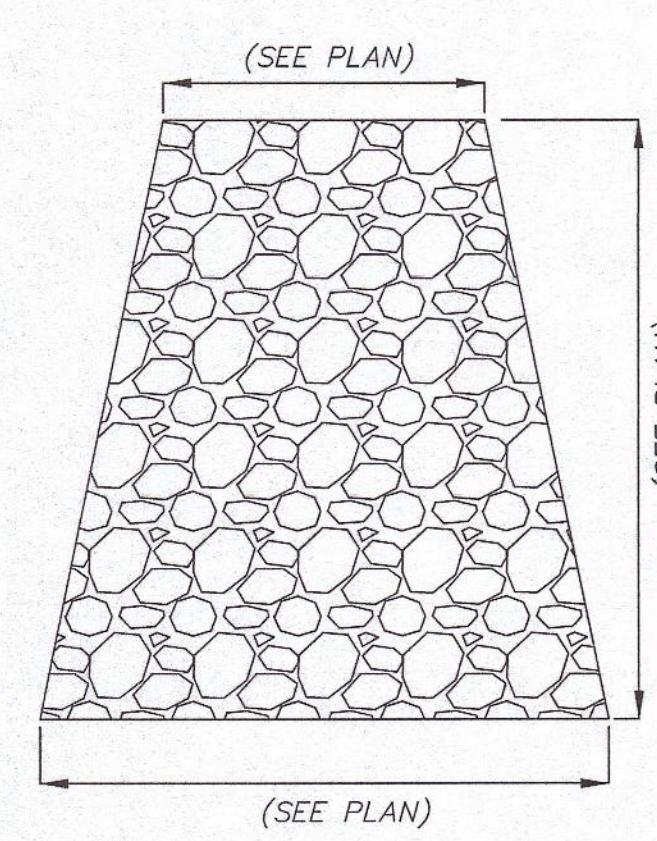
REV.	DATE	DESCRIPTION
		PROJECT NO. J-016
		DESIGNED BY PML
		CHECKED BY MD
		DATE 9/13/23
		CAD FILE J-016 SITE PLAN
		PLAN NO.

**APPLICANT/DEVELOPER:**  
**LOBISSEUR BUILDING CORP.**  
1 Charlesview Road • Hopedale, MA 01747  
P:(508) 478-6235

**TITLE:**  
**Upton Apartments**  
47 Main Street,  
Upton Massachusetts  
Preliminary  
Residential Development Plans  
Comprehensive Permit Application  
Upton Zoning Board of Appeals

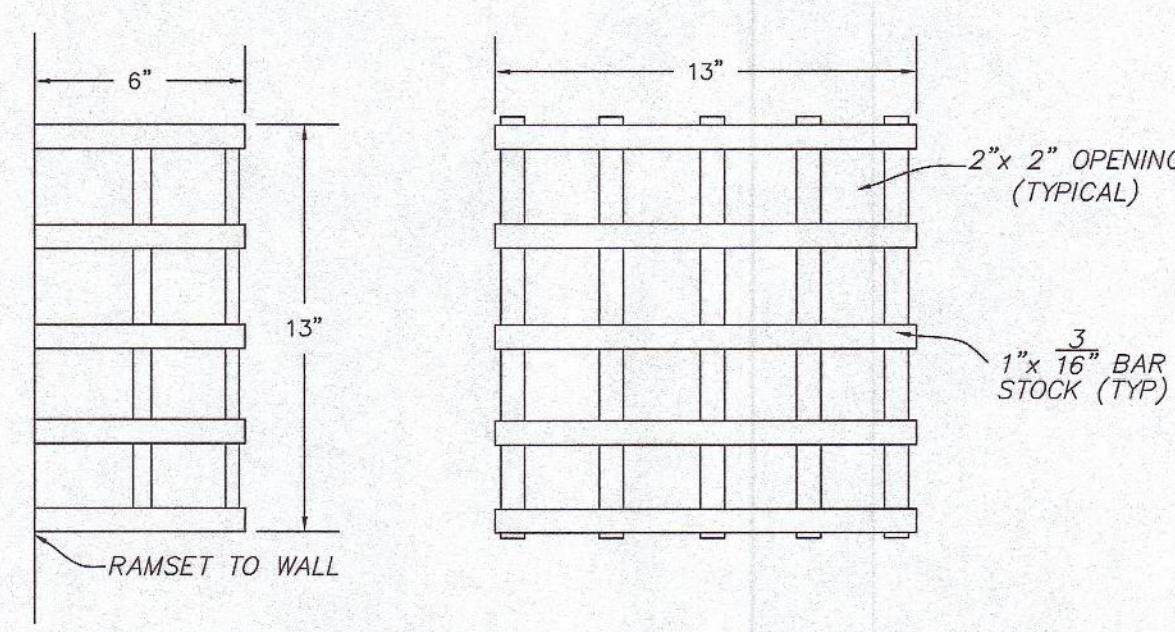
**SHEET TITLE**  
**CONSTRUCTION DETAILS**

**SHEET 4 OF 4**

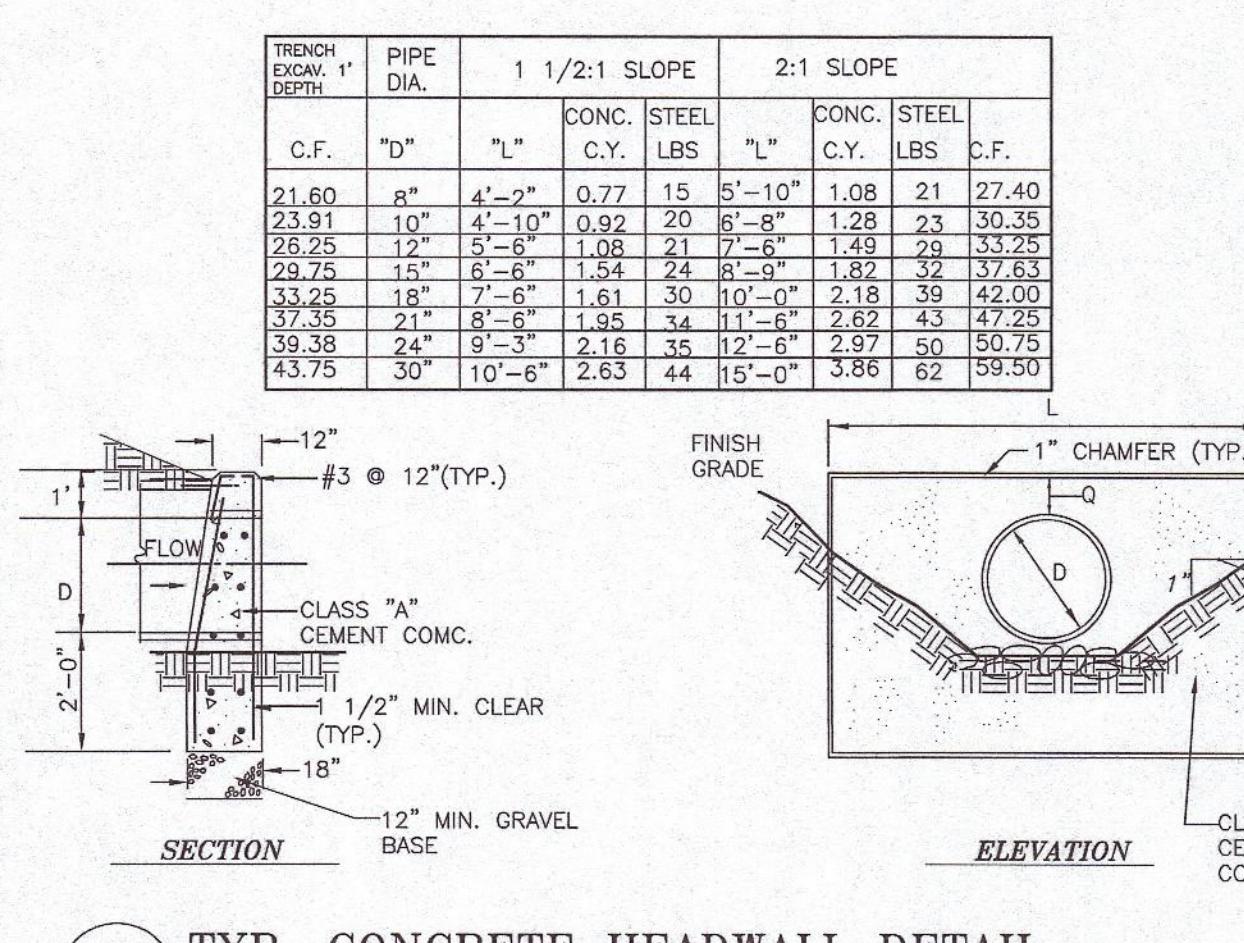


TYPICAL OUTFALL RIP-RAP APRON

6 STONE RIP-RAP FOR PIPE ENDS  
N.T.S.  
7.4



7 METAL TRASH RACK  
N.T.S.  
7.4



8 TYP. CONCRETE HEADWALL DETAIL  
N.T.S.  
7.4

NOTE: DEBRIS GRATE REQUIRED ON ALL PIPES WITH A DIAMETER GREATER THAN 36"

**SHEET NO.**

**C-7.4**





