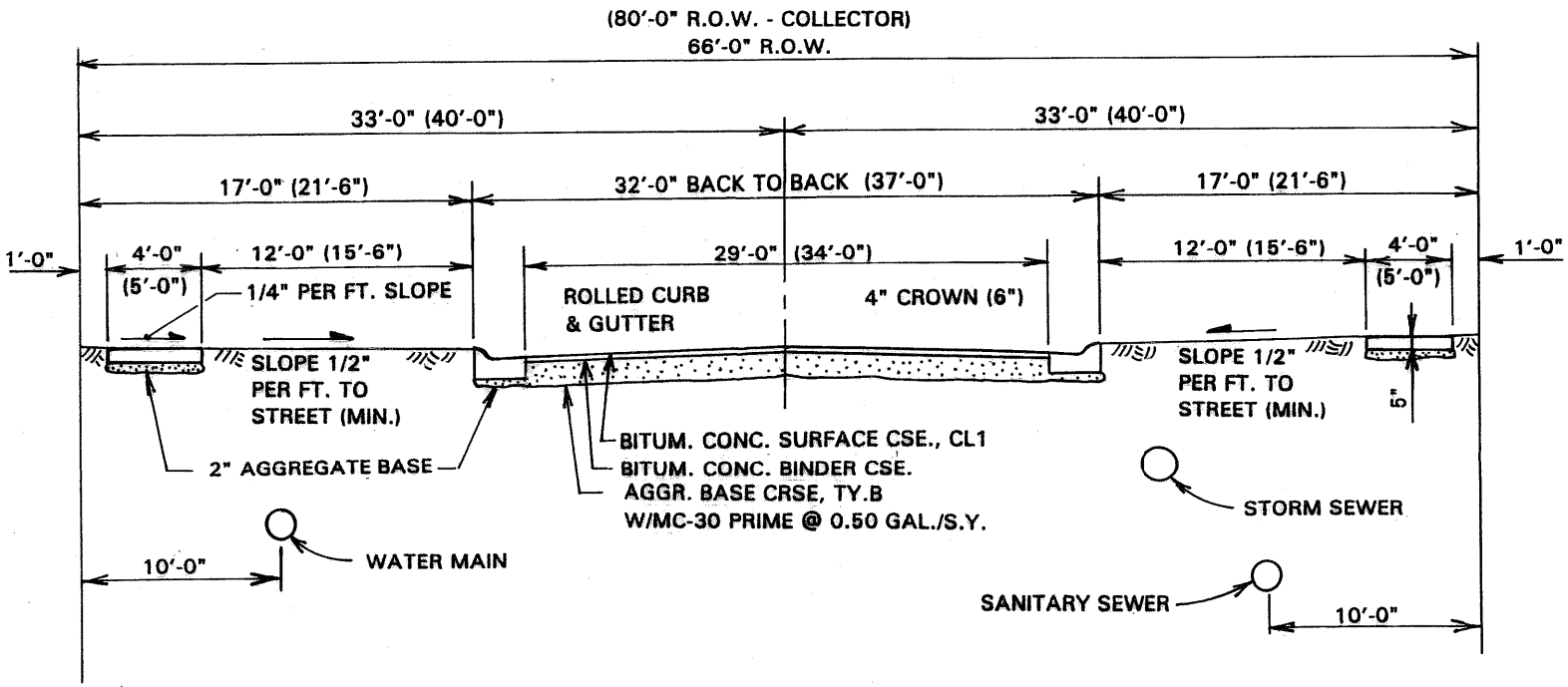
DRAWING
STREET 1

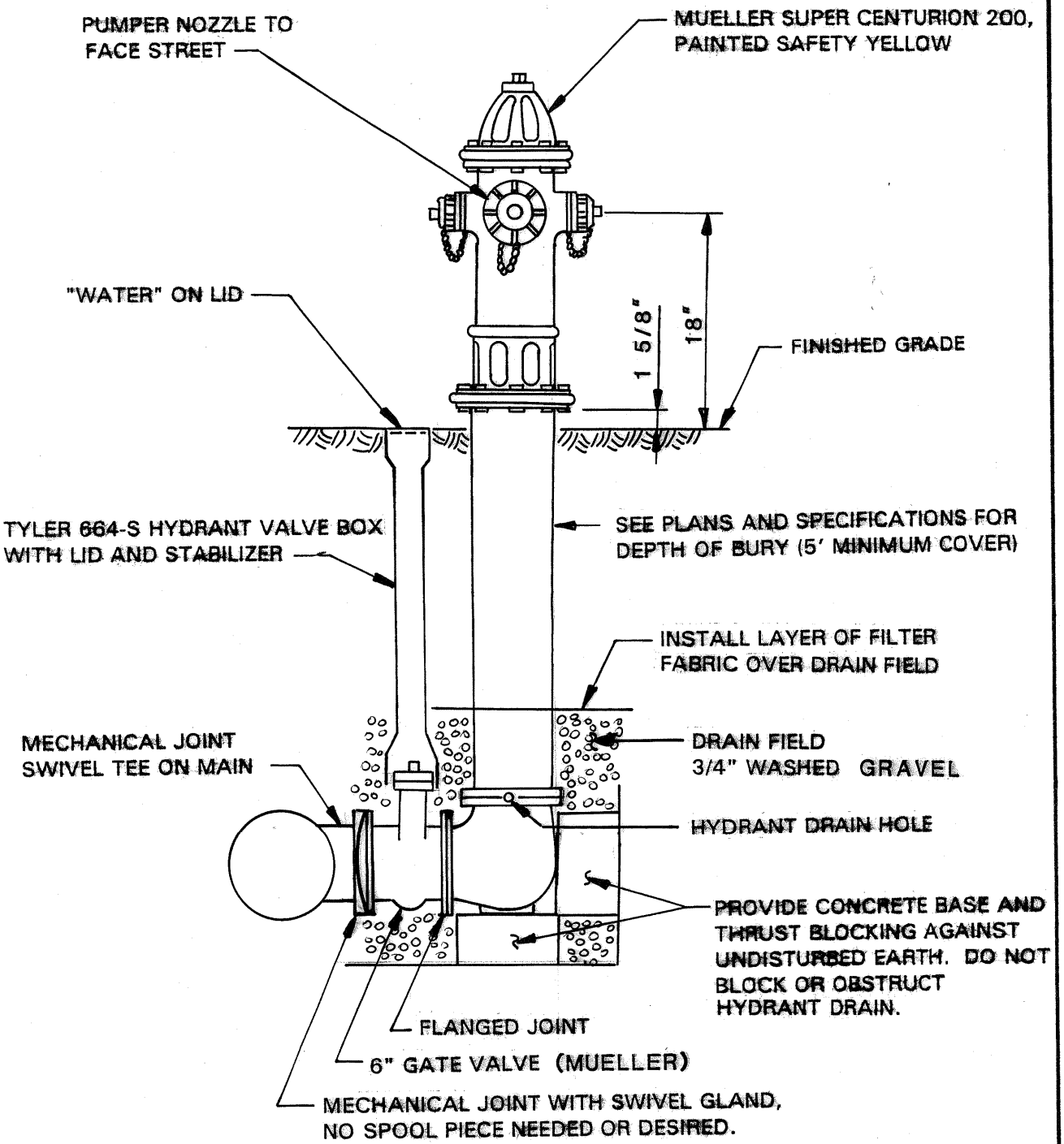
TYPICAL STREET SECTION



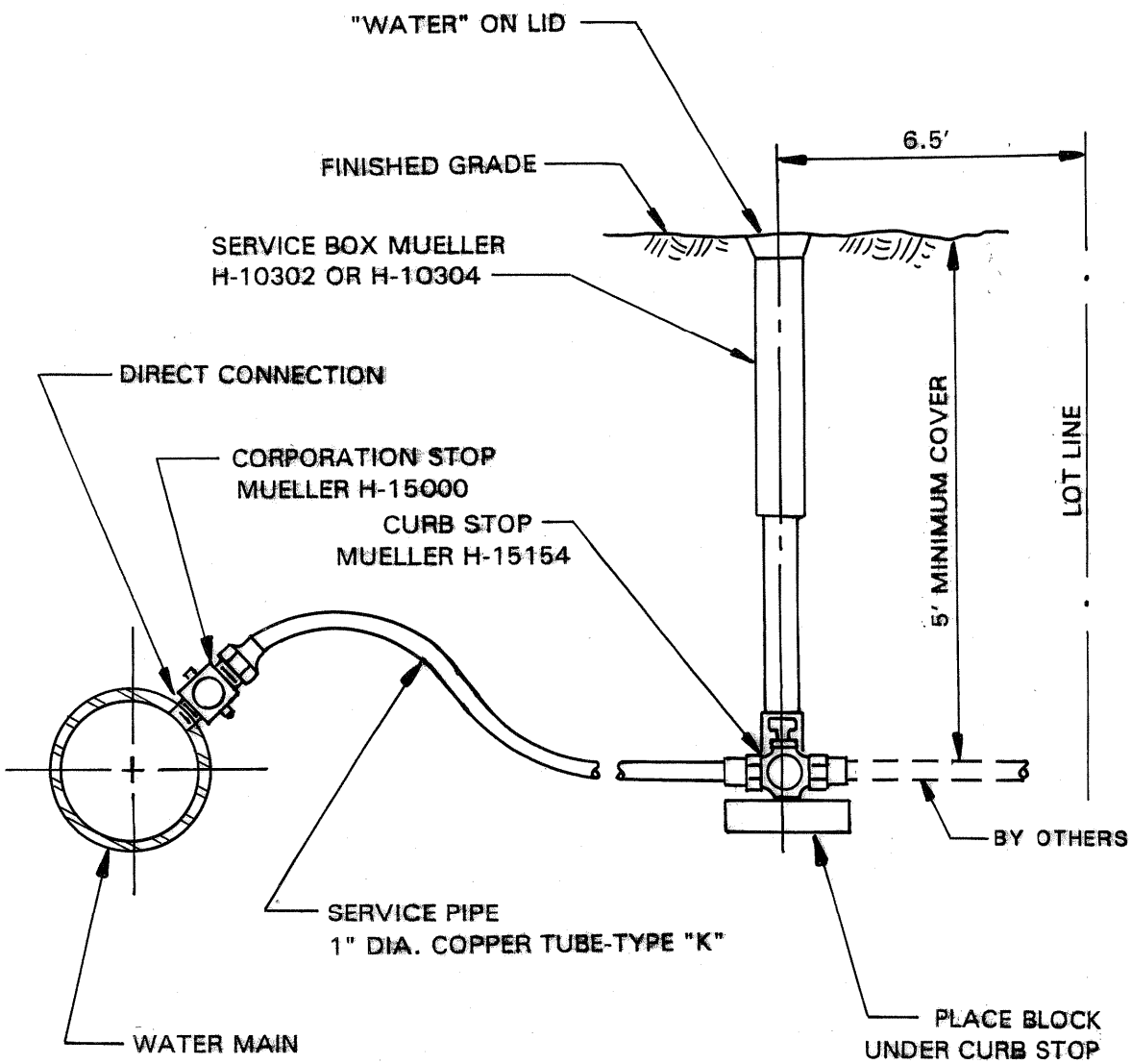
NOTES:

1. PAVEMENT STRUCTURE THICKNESSES SHALL BE AS DETERMINED BY DESIGN CALCULATIONS.
2. MINIMUM COMBINED THICKNESS OF BITUMINOUS CONCRETE SURFACE AND BINDER COURSE IS 4-INCH. MINIMUM OF 1½ INCH SURFACE COURSE AND 2½ INCH BINDER COURSE.
3. MINIMUM THICKNESS OF AGGREGATE BASE COURSE IS 8-INCH.
4. THE BACK TO BACK WIDTH FOR COMMERCIAL/INDUSTRIAL STREETS SHALL BE 36'-0".

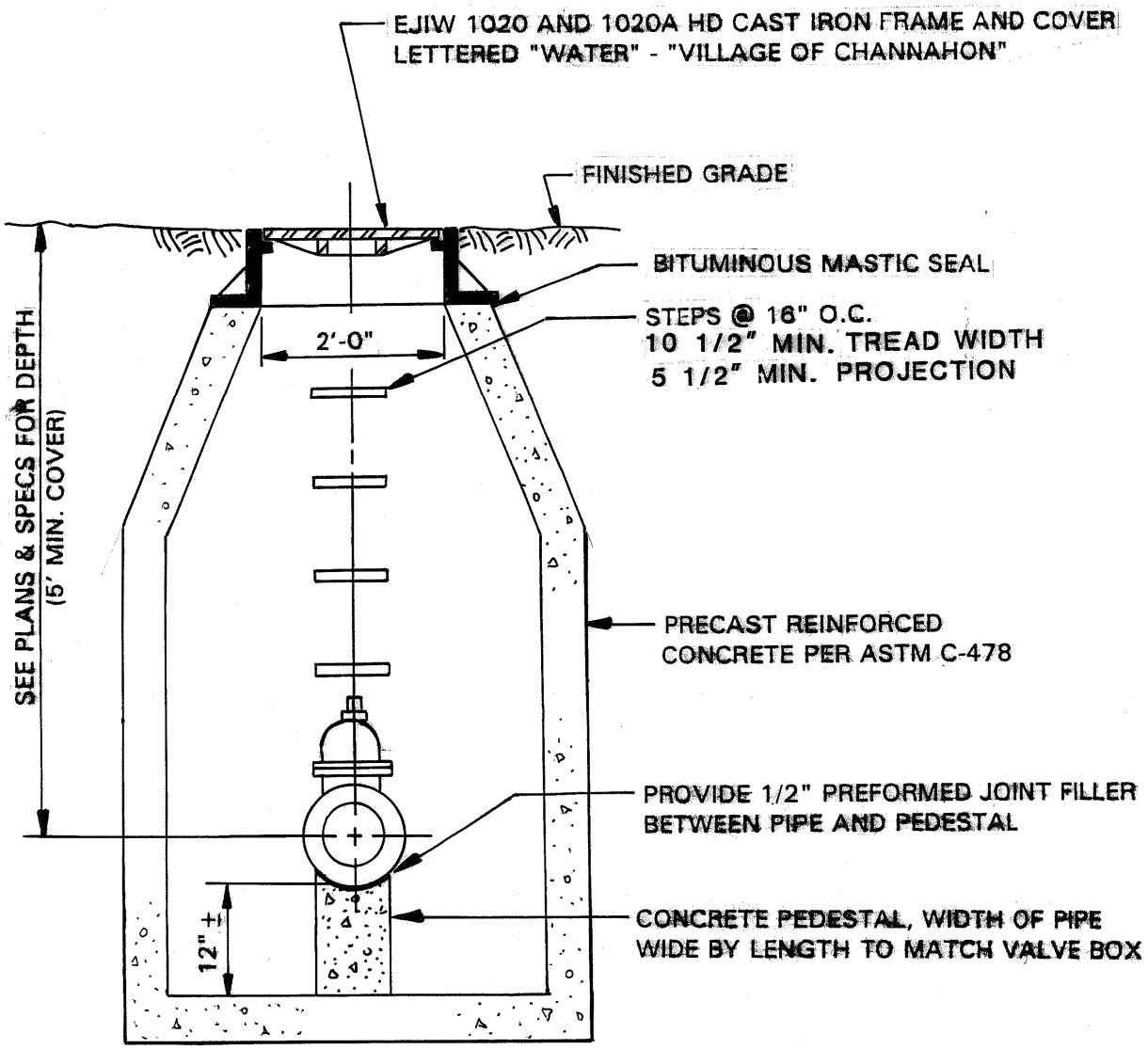
CHANNAHON ILLINOIS "WHERE THE WATERS MEET"



DRAWING WATER 1	TYPICAL HYDRANT INSTALLATION	CHANNAHON "WHERE THE WATERS MEET" ILLINOIS



DRAWING WATER 2	TYPICAL TAP SERVICE PIPING (COPPER)	CHANNAHON "WHERE THE WATERS MEET" ILLINOIS



NOTES:

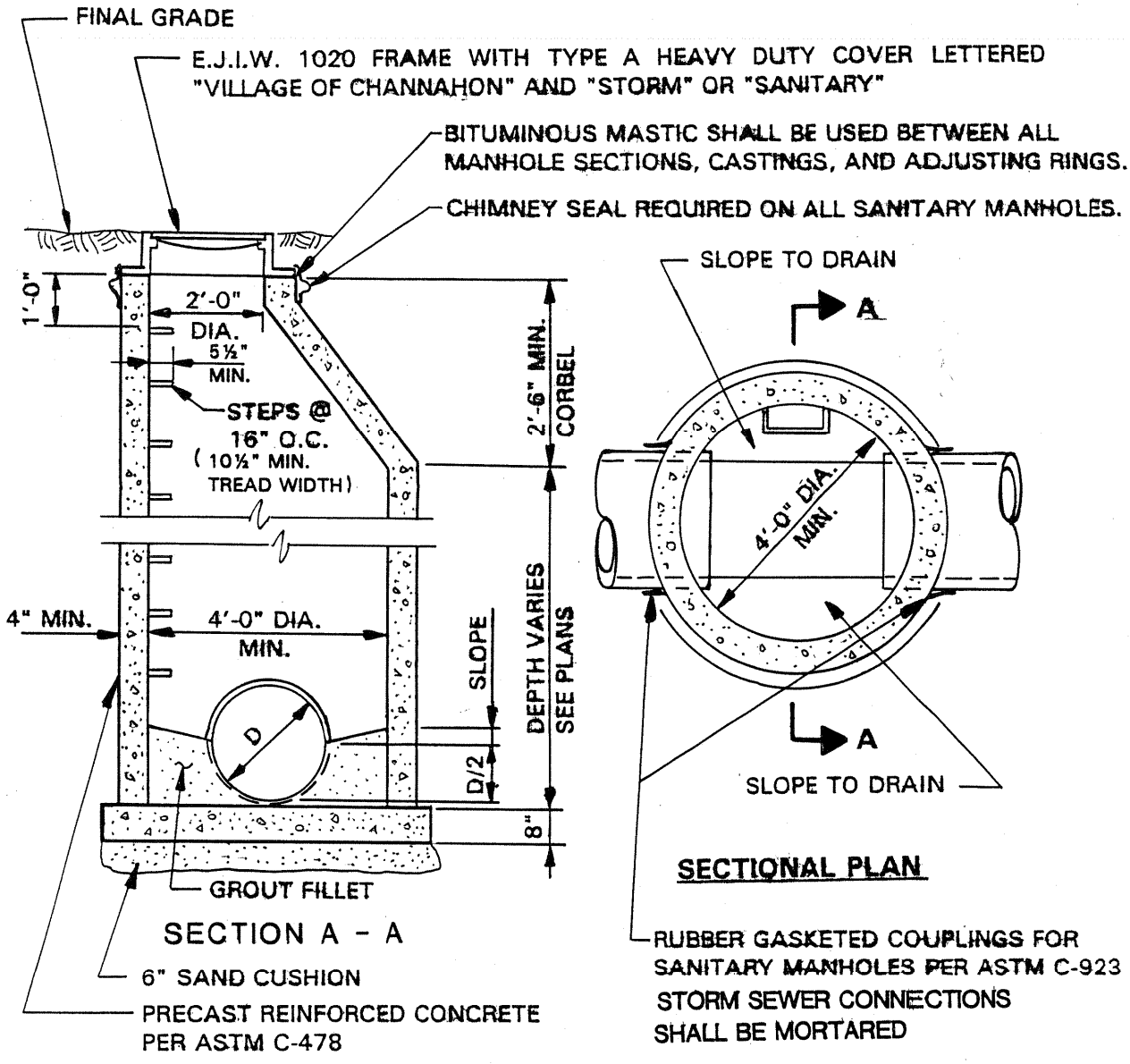
1. VALVE VAULT DIAMETER SHALL BE 48" FOR 8" AND SMALLER VALVES, AND 60" FOR 10" AND LARGER VALVES OR FOR PRESSURE CONNECTIONS.

2. BITUMINOUS MASTIC MATERIAL SHALL BE PLACED BETWEEN ALL MANHOLE SECTIONS AND ADJUSTING RINGS.

3. ACCESS OPENING AND STEPS SHALL BE POSITIONED SO AS NOT TO INTERFERE WITH VALVE OPERATION FROM ABOVE.

4. MAXIMUM OF TWO (2) ADJUSTING RINGS TOTALING NO MORE THAN 6 INCHES SHALL BE USED.

DRAWING WATER 3	TYPICAL VALVE VAULT DETAIL	CHANNAHON "WHERE THE WATERS MEET" ILLINOIS



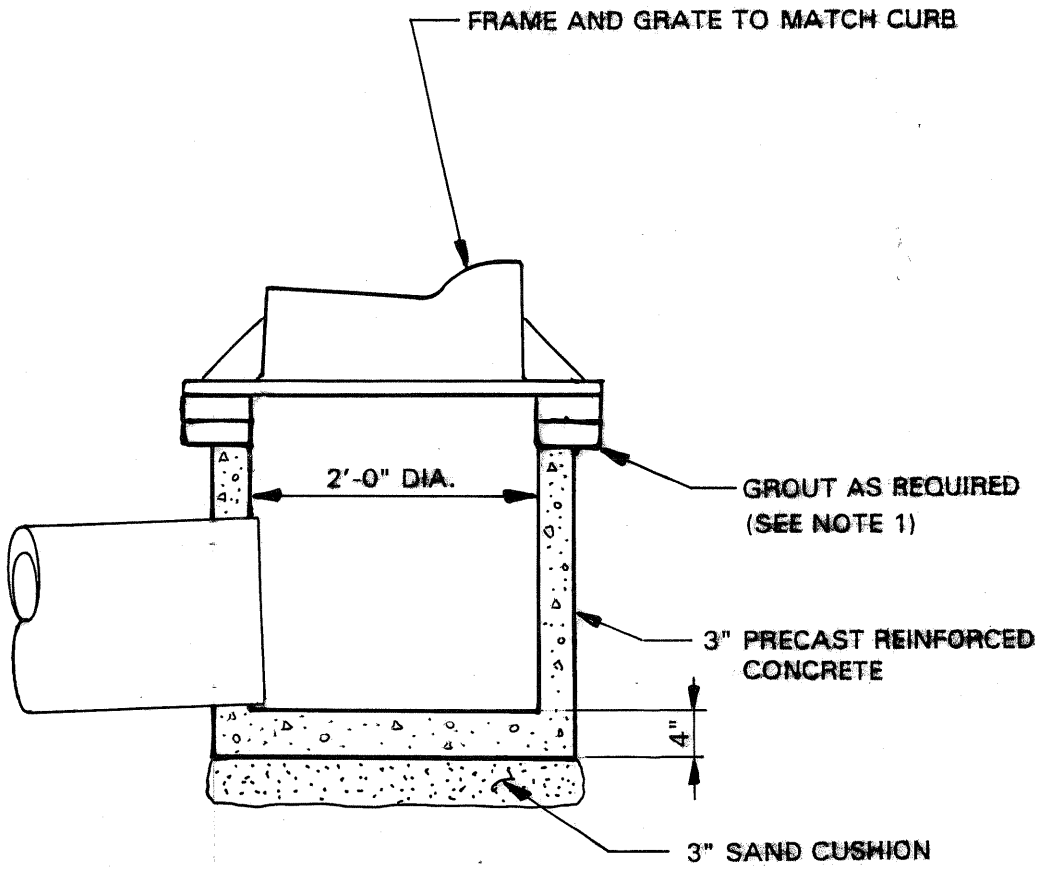
NOTES:

1. MANHOLE FRAME AND LID SHALL HAVE MACHINED BEARING SURFACES. SANITARY MANHOLES SHALL HAVE SELF SEALING LIDS.

2. MAXIMUM OF TWO (2) ADJUSTING RINGS TOTALING NO MORE THAN 6 INCHES SHALL BE USED.

3. SANITARY MANHOLES SHALL HAVE A VERTICAL TOP EDGE ON THE CONE DESIGNED TO ACCEPT A CHIMNEY SEAL.

DRAWING	TYPICAL MANHOLE TYPE A	CHANNAHON "WHERE THE WATERS MEET" ILLINOIS
STORM 1	(FOR SANITARY AND STORM SEWER MANHOLES)	



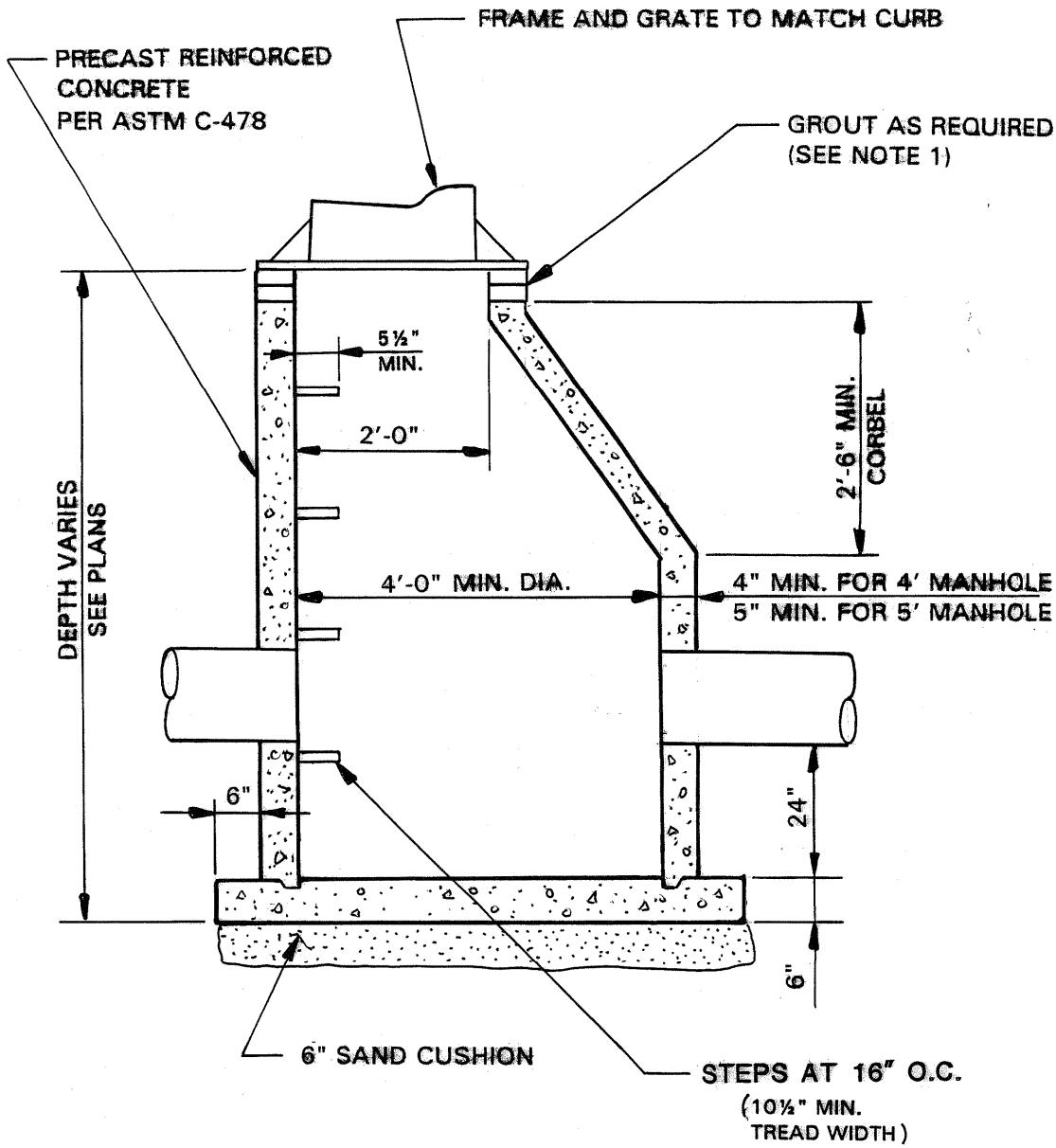
NOTES:

1. MAXIMUM OF TWO (2) PRECAST ADJUSTING RINGS TOTALING NO MORE THAN 6 INCHES SHALL BE USED. AT LEAST ONE PRECAST ADJUSTING RING SHALL BE USED TO PROVIDE A BASE FOR THE FRAME AND GRATE.

2. THE INSIDE CORNERS OF THE INLET FRAME SHALL BE GROUTED AFTER THE CURB AND GUTTER HAVE BEEN POURED.

3. BITUMINOUS MASTIC OR GROUT SHALL BE USED BETWEEN THE INLET BARREL, FRAME, AND ALL ADJUSTING RINGS.

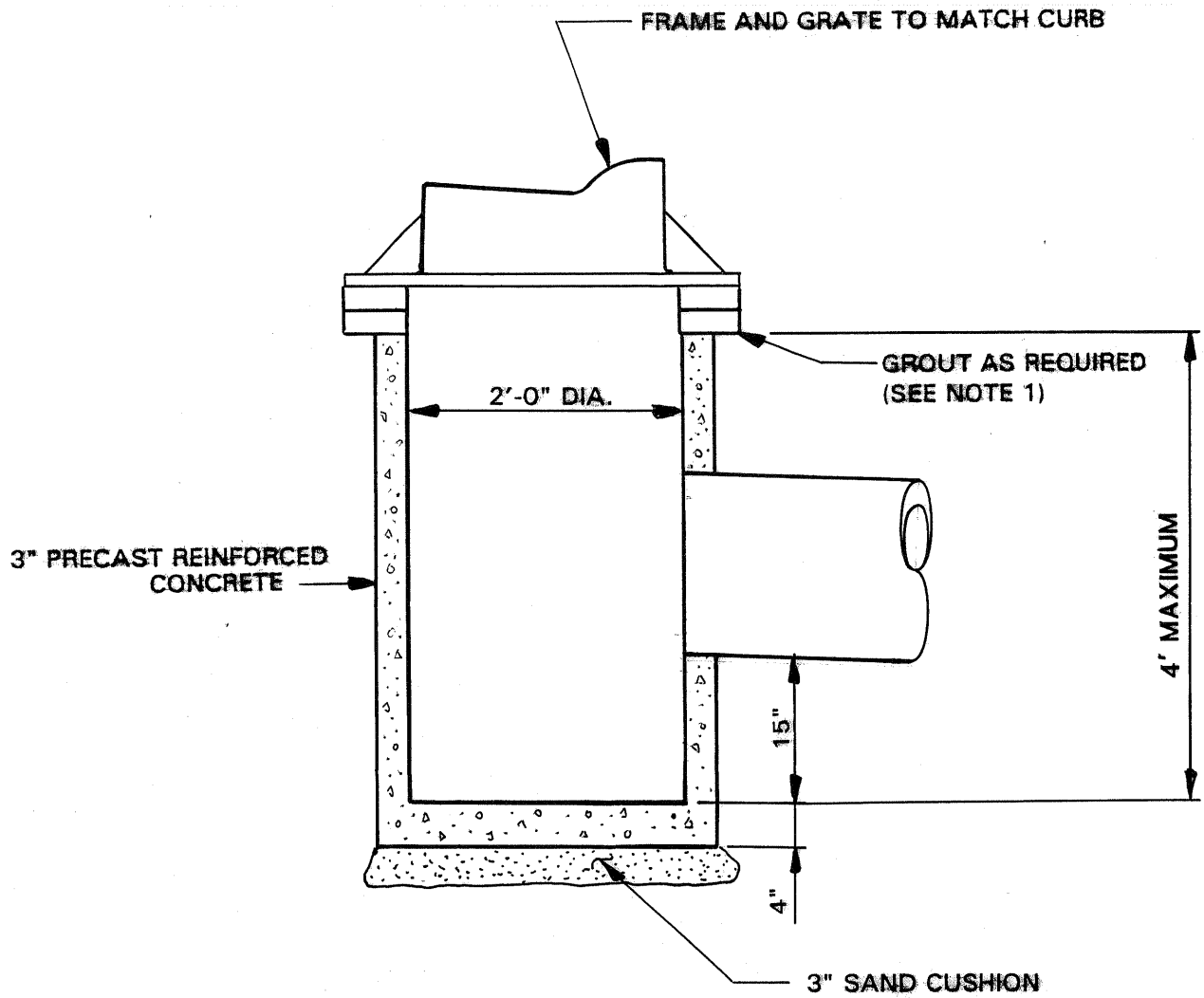
DRAWING STORM 2	TYPICAL INLET TYPE A	CHANNAHON "WHERE THE WATERS MEET" ILLINOIS



NOTES:

1. MAXIMUM OF TWO (2) ADJUSTING RINGS TOTALING NO MORE THAN 6 INCHES SHALL BE USED.
2. BITUMINOUS MASTIC OR GROUT SHALL BE USED BETWEEN THE CATCH BASIN, FRAME, AND ALL ADJUSTING RINGS.

DRAWING STORM 3	TYPICAL CATCH BASIN TYPE A	CHANNAHON "WHERE THE WATERS MEET" ILLINOIS



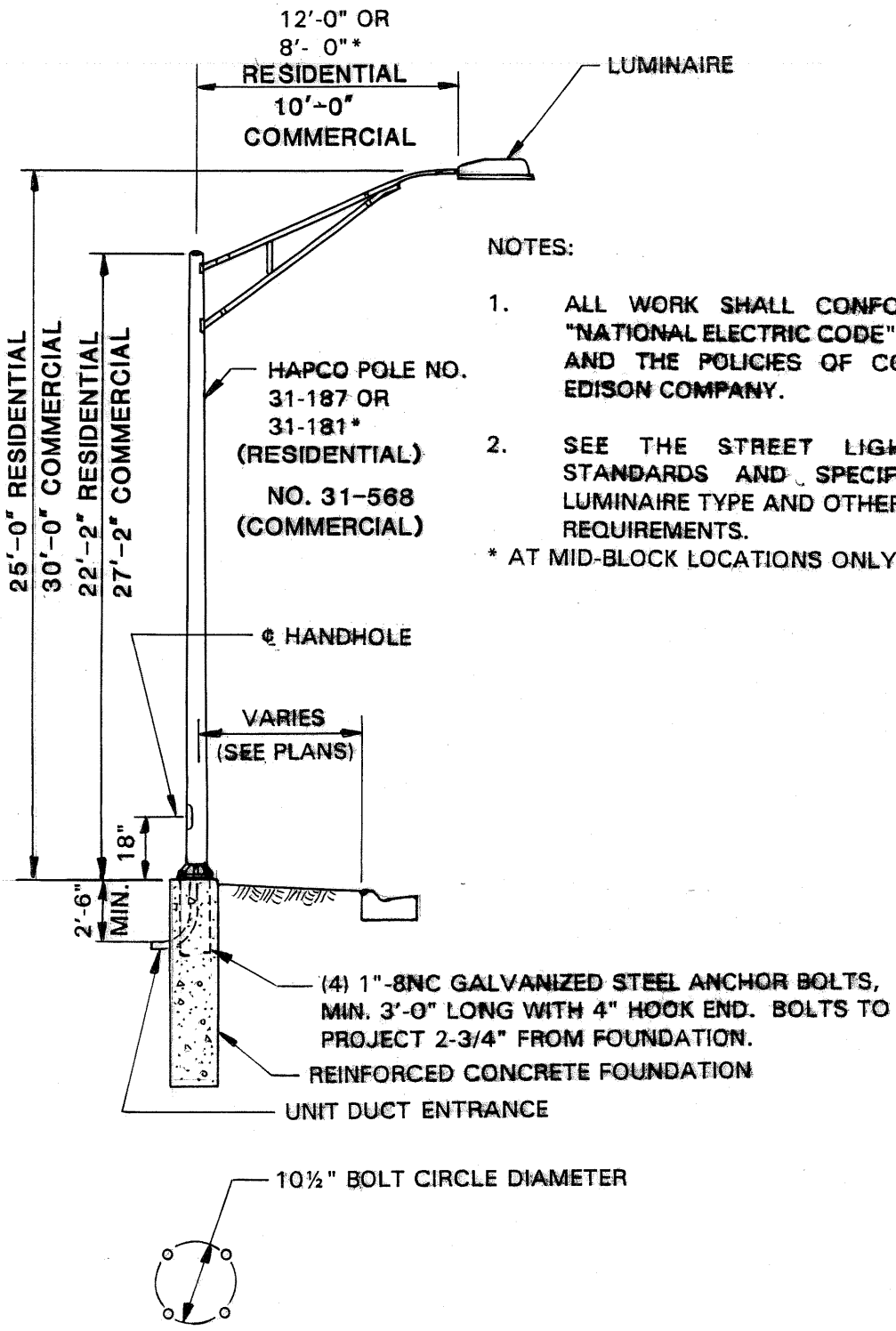
NOTES:

1. MAXIMUM OF TWO (2) PRECAST ADJUSTING RINGS TOTALING NO MORE THAN 6 INCHES SHALL BE USED. AT LEAST ONE PRECAST ADJUSTING RING SHALL BE USED TO PROVIDE A BASE FOR THE FRAME AND GRATE.

2. THE INSIDE CORNERS OF THE INLET FRAME SHALL BE GROUTED AFTER THE CURB AND GUTTER HAVE BEEN POURED.

3. BITUMINOUS MASTIC OR GROUT SHALL BE USED BETWEEN THE CATCH BASIN, FRAME, AND ALL ADJUSTING RINGS.

DRAWING STORM 4	TYPICAL CATCH BASIN TYPE C	CHANNAHON "WHERE THE WATERS MEET" ILLINOIS

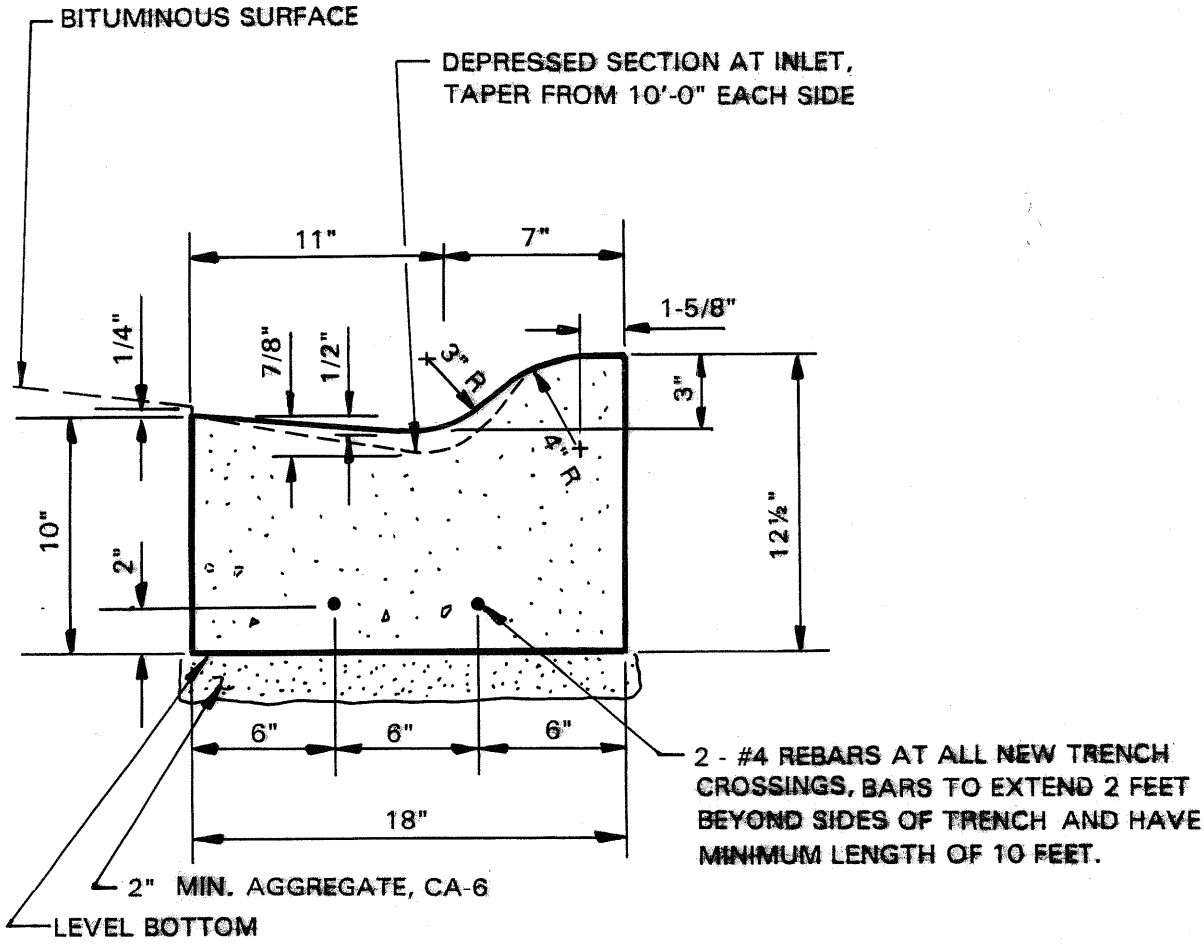


NOTES:

1. ALL WORK SHALL CONFORM WITH THE "NATIONAL ELECTRIC CODE" REQUIREMENTS AND THE POLICIES OF COMMONWEALTH EDISON COMPANY.
2. SEE THE STREET LIGHT MATERIAL STANDARDS AND SPECIFICATIONS FOR LUMINAIRE TYPE AND OTHER INSTALLATION REQUIREMENTS.

* AT MID-BLOCK LOCATIONS ONLY

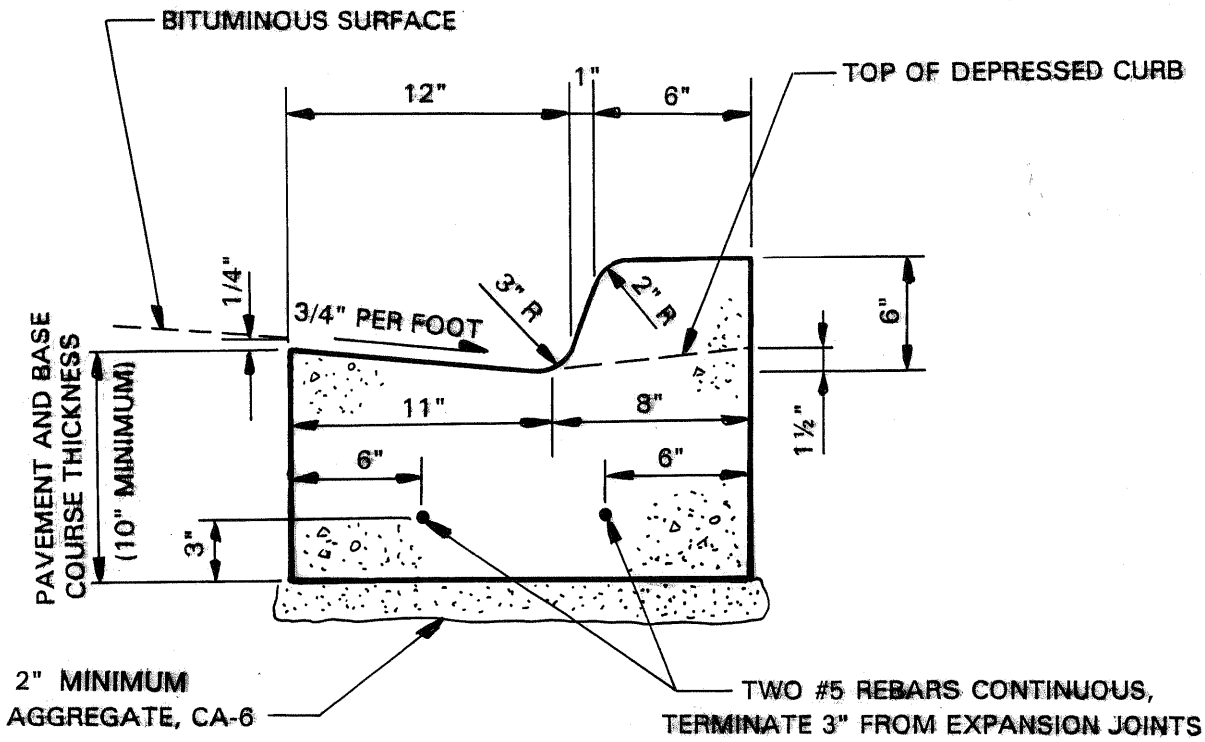
DRAWING LIGHTS 1	STREET LIGHTING DETAIL	CHANNAHON "WHERE THE WATERS MEET" ILLINOIS



NOTES:

1. DEPRESS BACK OF CURB AT ALL SIDEWALK HANDICAPPED RAMP LOCATIONS.
2. CONTRACTION JOINTS SHALL BE SAWCUT AT 20 FOOT MAXIMUM INTERVALS TO A DEPTH OF 2 INCHES.
3. CONTRACTION JOINT SPACES SHALL BE SEALED WITH A COLD POURED JOINT COMPOUND.
4. SEE EXPANSION JOINT DETAIL FOR EXPANSION JOINT LOCATIONS.
5. CONCRETE CURING COMPOUND SHALL BE APPLIED AS FINISHING WORK PROCEEDS.

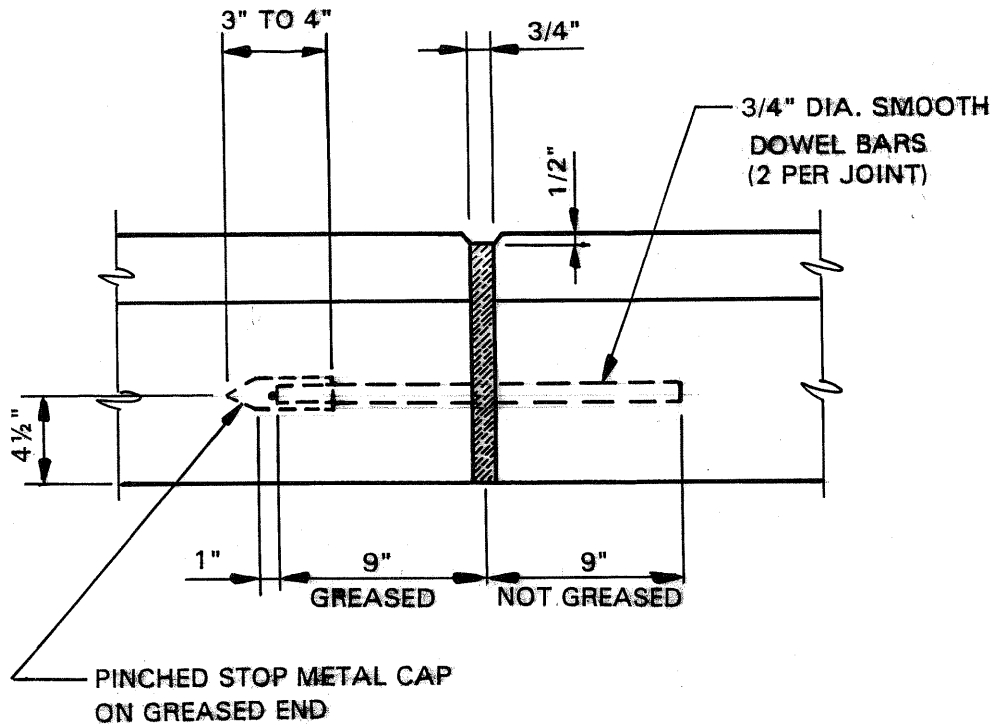
DRAWING CURB 1	ROLLED CURB AND GUTTER DETAIL RESIDENTIAL AREAS	CHANNAHON "WHERE THE WATERS MEET" ILLINOIS



NOTES:

1. DEPRESS BACK OF CURB AT ALL SIDEWALK HANDICAPPED RAMP LOCATIONS AND AT KNOWN DRIVEWAY OPENINGS.
2. CONTRACTION JOINTS SHALL BE SAWCUT AT 20 FOOT MAXIMUM INTERVALS TO A DEPTH OF 2 INCHES.
3. CONTRACTION JOINT SPACES SHALL BE SEALED WITH A COLD POURED JOINT COMPOUND.
4. SEE EXPANSION JOINT DETAIL FOR EXPANSION JOINT LOCATIONS.
5. CONCRETE CURING COMPOUND SHALL BE APPLIED AS FINISHING WORK PROCEEDS.

DRAWING CURB 2	VERTICAL FACED CURB AND GUTTER DETAIL COMMERCIAL & INDUSTRIAL AREAS	CHANNAHON "WHERE THE WATERS MEET" ILLINOIS

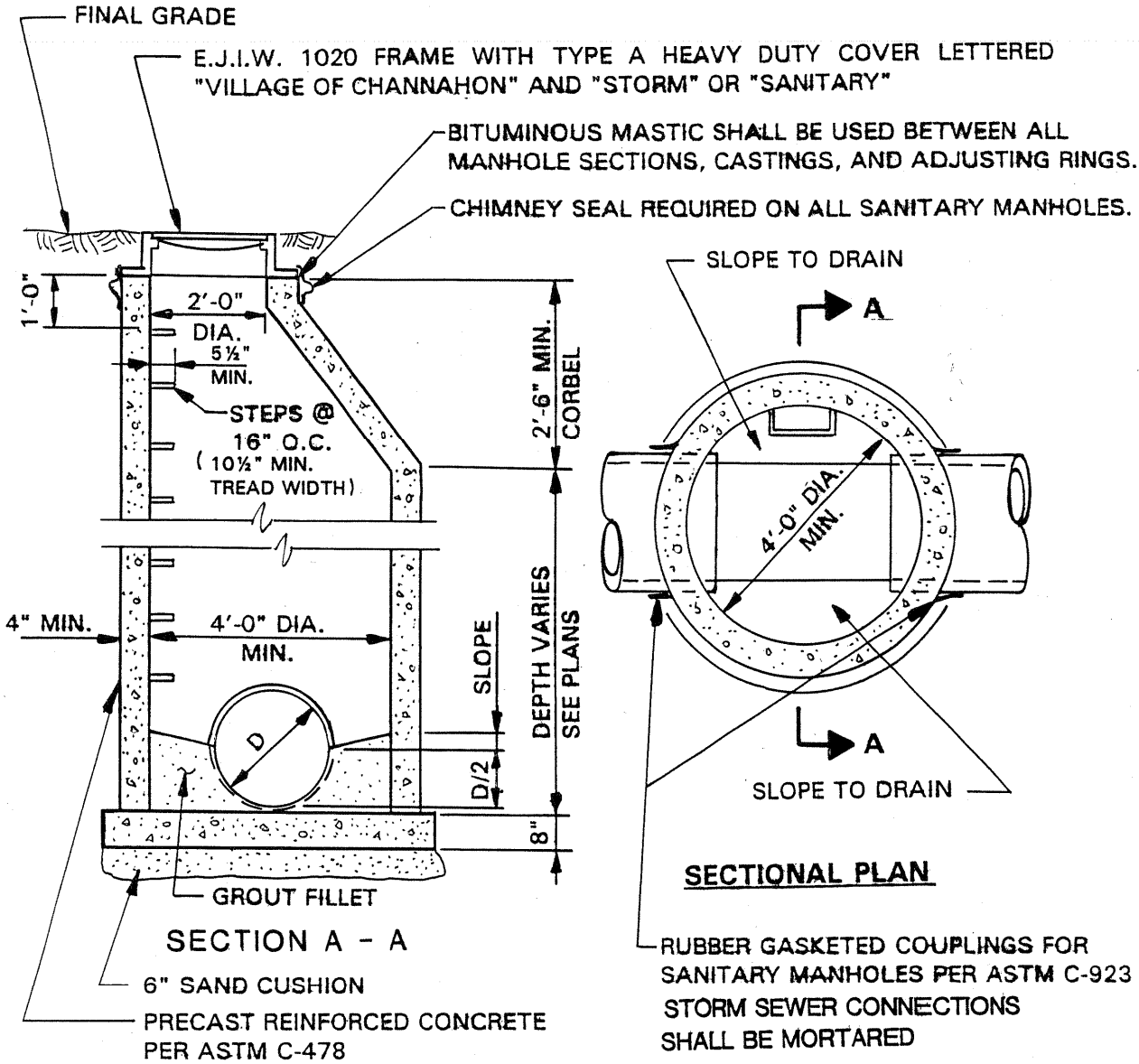


NOTES:

1. EXPANSION JOINTS SHALL BE PLACED, AS A MINIMUM, AT ALL CURB RADIUS POINTS AND ALL CONSTRUCTION JOINTS IN THE CURB.

2. TERMINATE ANY CURB REINFORCEMENT BARS 3 INCHES AWAY FROM EXPANSION JOINTS.

DRAWING CURB 3	TYPICAL EXPANSION JOINT DETAIL	CHANNAHON "WHERE THE WATERS MEET" ILLINOIS



NOTES:

1. MANHOLE FRAME AND LID SHALL HAVE MACHINED BEARING SURFACES. SANITARY MANHOLES SHALL HAVE SELF SEALING LIDS.

2. MAXIMUM OF TWO (2) ADJUSTING RINGS TOTALING NO MORE THAN 6 INCHES SHALL BE USED.

3. SANITARY MANHOLES SHALL HAVE A VERTICAL TOP EDGE ON THE CONE DESIGNED TO ACCEPT A CHIMNEY SEAL.

DRAWING	TYPICAL MANHOLE TYPE A	CHANNAHON "WHERE THE WATERS MEET" ILLINOIS
SANITARY 1	(FOR SANITARY AND STORM SEWER MANHOLES)	