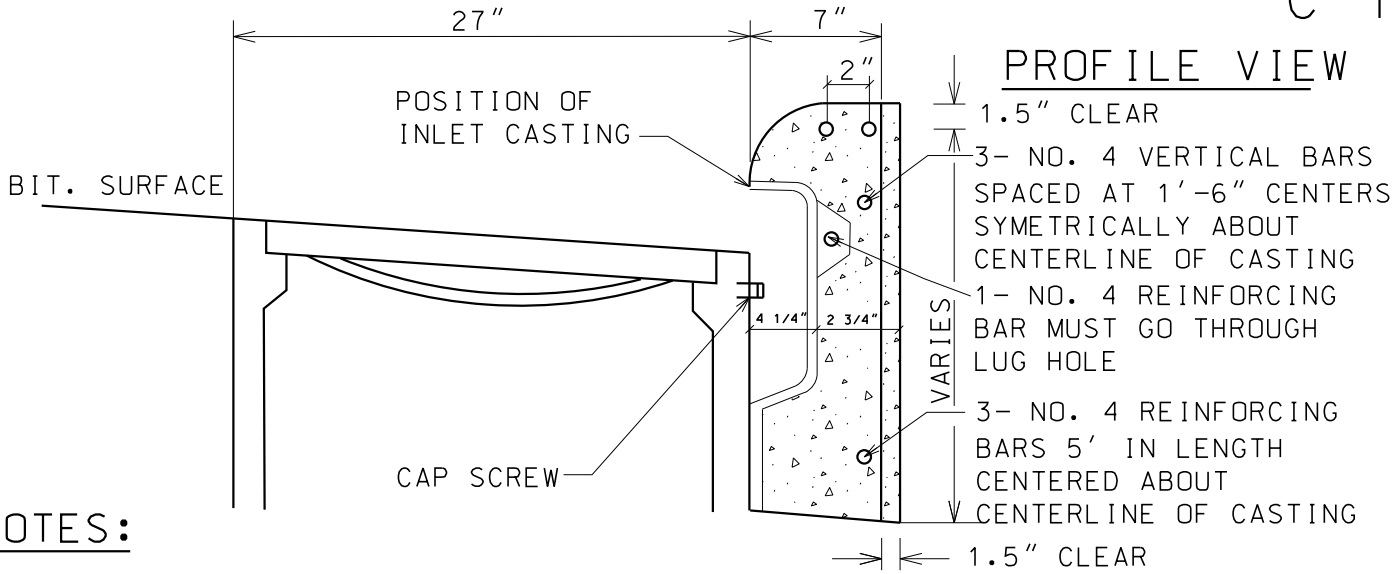
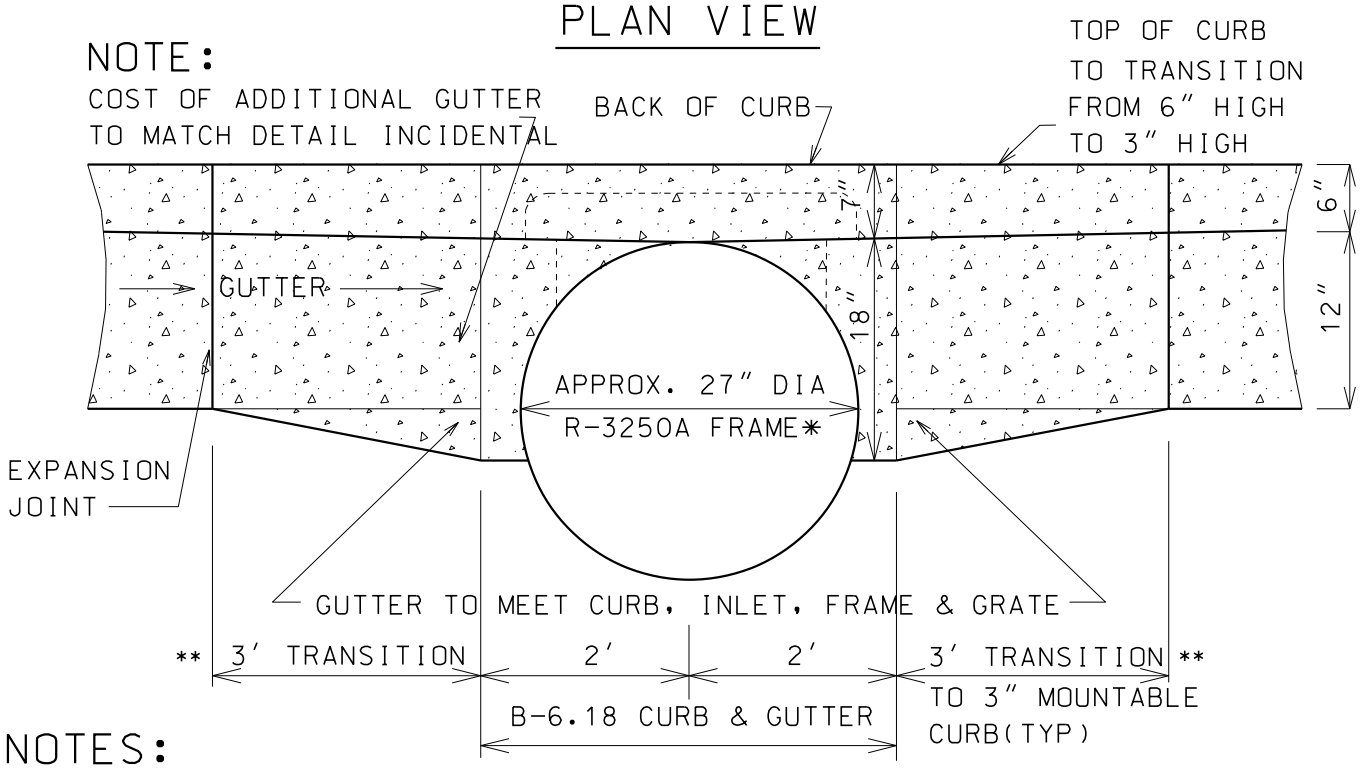


NOTES:

1. CURB INLET CASTING SHALL BE FASTENED TEMPORARILY TO FRAME CASTING WITH 2 CAP SCREWS, DURING CONSTRUCTION
2. CAP SCREWS MUST BE REMOVED AFTER CURB HAS HARDENED.

PLAN VIEW

NOTE:
COST OF ADDITIONAL GUTTER TO MATCH DETAIL INCIDENTAL



NOTES:

1. CURB CONTRACTOR TO VERIFY POSITION AND ELEVATION OF FRAME AND GRATE PRIOR TO POUR. IF NOT CORRECT, FIVE (5) FOOT TRANSITION AREA TO BE LEFT UNPOURED UNTIL SITUATION IS CORRECTED BY CONTRACTOR.

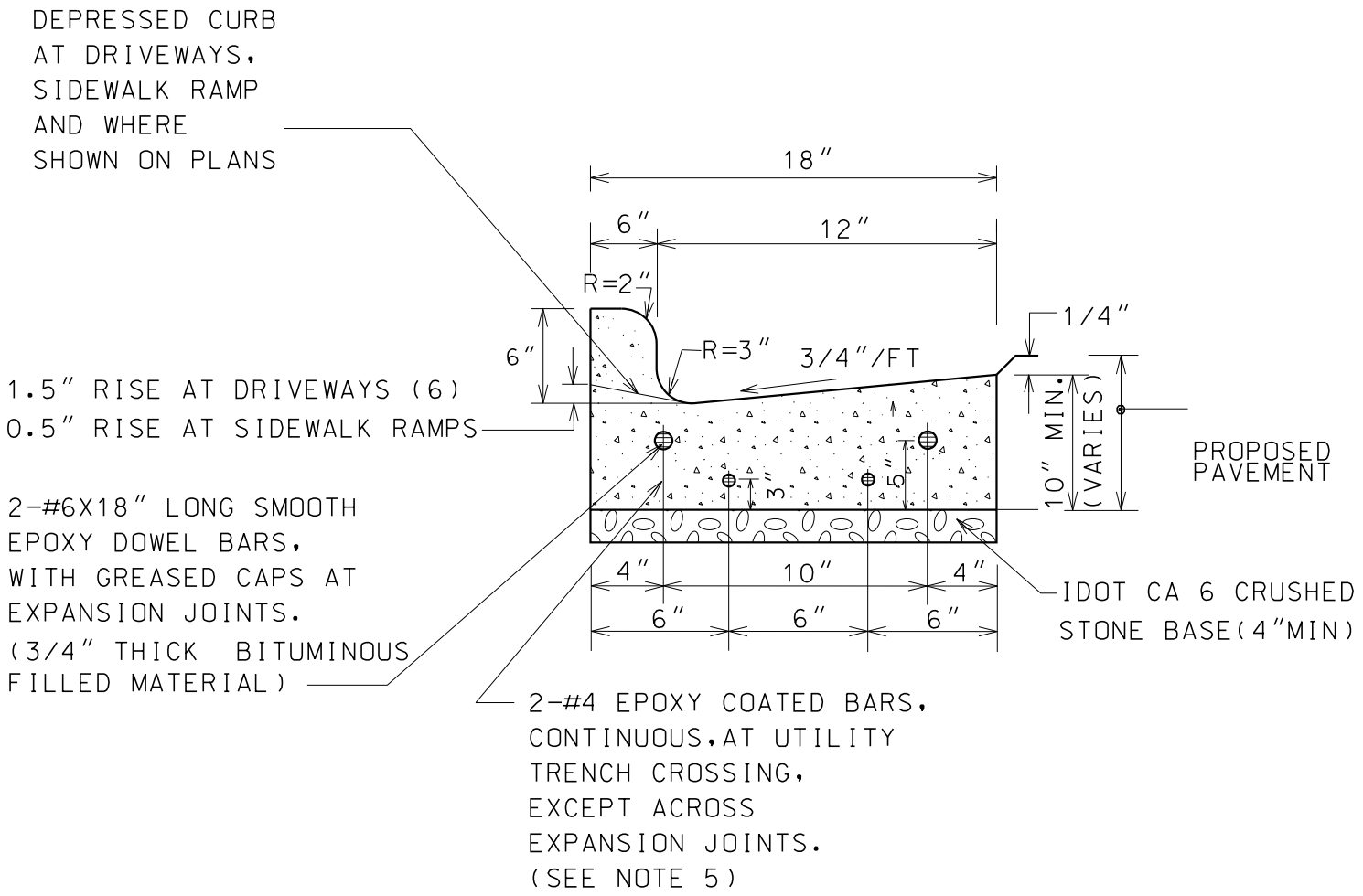
* TYPE K GRATE (INSTALLED WITH VANES PERPENDICULAR TO THE CURB) OR A R-2371 TYPE G GRATE.

** AT LOCATIONS WHERE SIDEWALK IS DIRECTLY ADJACENT AND PARALLEL TO THE BACK OF CURB (CARRIAGE WALK), THE LENGTH OF CURB TRANSITIONS SHALL BE LONG ENOUGH TO PROVIDE A MAXIMUM 5% LONGITUDINAL SLOPE IN THE SIDEWALK PER IDOT AND PROWAG GUIDELINES. MAXIMUM LONGITUDINAL SIDEWALK SLOPE CAN BE INCREASED TO 8.3% AT ADA RAMPS. THIS CURB TRANSITION LENGTH VARIES AND STEEPER ROADWAY SLOPES MAY REQUIRE LONGITUDINAL SIDEWALK SLOPES THAT EXCEED 5%.

NOT TO SCALE

CURB & GUTTER FOR R-3250A FRAME DETAIL

REVISED: 3-15-22



NOTE:

1. 2" DEEP CONTRACTION JOINTS SHALL BE PLACED AT 15' INTERVALS, AND SHALL BE GROOVED WITH AN EDGING TOOL. SEE ARTICLES 420.05 AND 606 OF IDOT STANDARD SPECIFICATIONS.

2. EXPANSION JOINTS SHALL BE PLACED AT 60' (MAX) INTERVALS, AT ALL P.C.'S AND P.T.'S, CURB RETURNS, AND AT THE END OF EACH POUR.

3. P.C.C. SHALL CONSIST OF IDOT CLASS SI CONCRETE MIX, WITH 5% TO 8% AIR ENTRAINMENT, AND A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI AT 14 DAYS.

4. PROVIDE 2 #4X18" EPOXY COATED TIE BARS AT CONNECTIONS BETWEEN EXISTING AND NEW CURB & GUTTER.

5. CURBS, SPANNING UTILITY TRENCHES, SHALL BE CONSTRUCTED WITH TWO #4 REINFORCEMENT BARS, WHICH EXTEND FIVE (5) FEET BEYOND THE TRENCH WALLS.

6. WHERE DRIVEWAYS ARE INTENDED FOR PEDESTRIAN ACCESS, RISE SHALL BE 0.5".

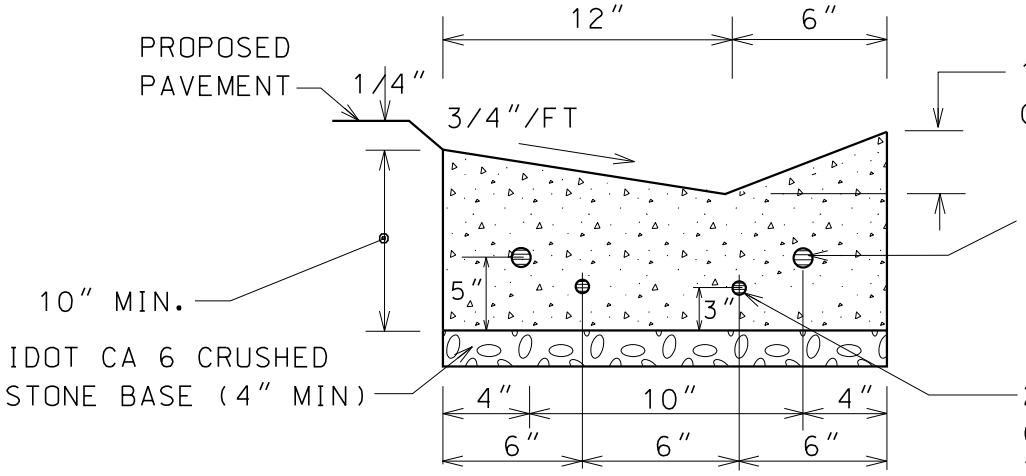
7. SAW CUTTING EXISTING CURB & GUTTER LOCATIONS TO CREATE DEPRESSED CURB IS NOT ALLOWED WITHOUT PRIOR APPROVAL BY VILLAGE ENGINEER.

NOT TO SCALE

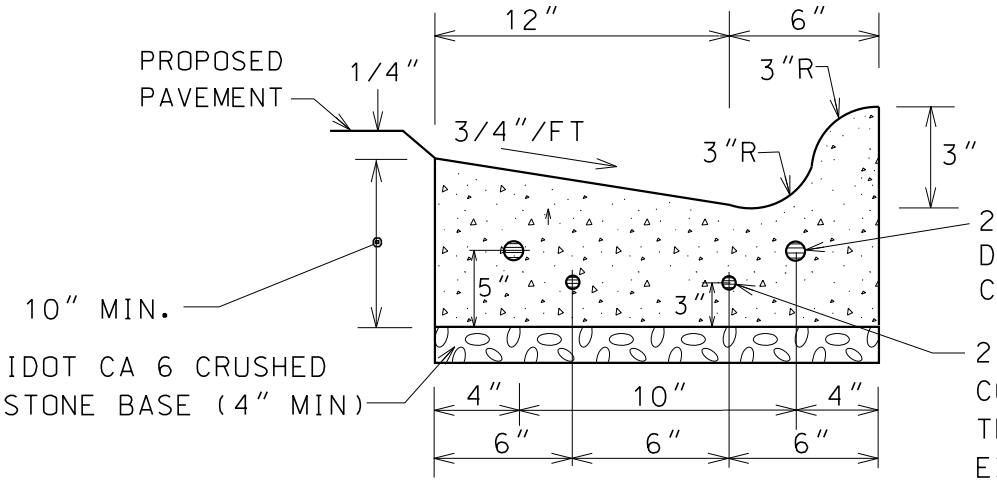
B-6.12 CURB & GUTTER DETAIL

REVISED: 3-15-22

DEPRESSED CURB



MOUNTABLE CURB



NOTE:

1. 2" DEEP CONTRACTION JOINTS SHALL BE PLACED AT 15' INTERVALS, AND SHALL BE GROOVED WITH AN EDGING TOOL. SEE ARTICLES 420.05 AND 606 OF IDOT STANDARD SPECIFICATIONS.

2. EXPANSION JOINTS SHALL BE PLACED AT 60' (MAX) INTERVALS, AT ALL P.C.'S AND P.T.'S, CURB RETURNS, AND AT THE END OF EACH POUR.

3. P.C.C. SHALL CONSIST OF IDOT CLASS SI CONCRETE MIX, WITH 5% TO 8% AIR ENTRAINMENT, AND A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI AT 14 DAYS.

4. PROVIDE 2 #4X18" EPOXY COATED TIE BARS AT CONNECTIONS BETWEEN EXISTING AND NEW CURB & GUTTER.

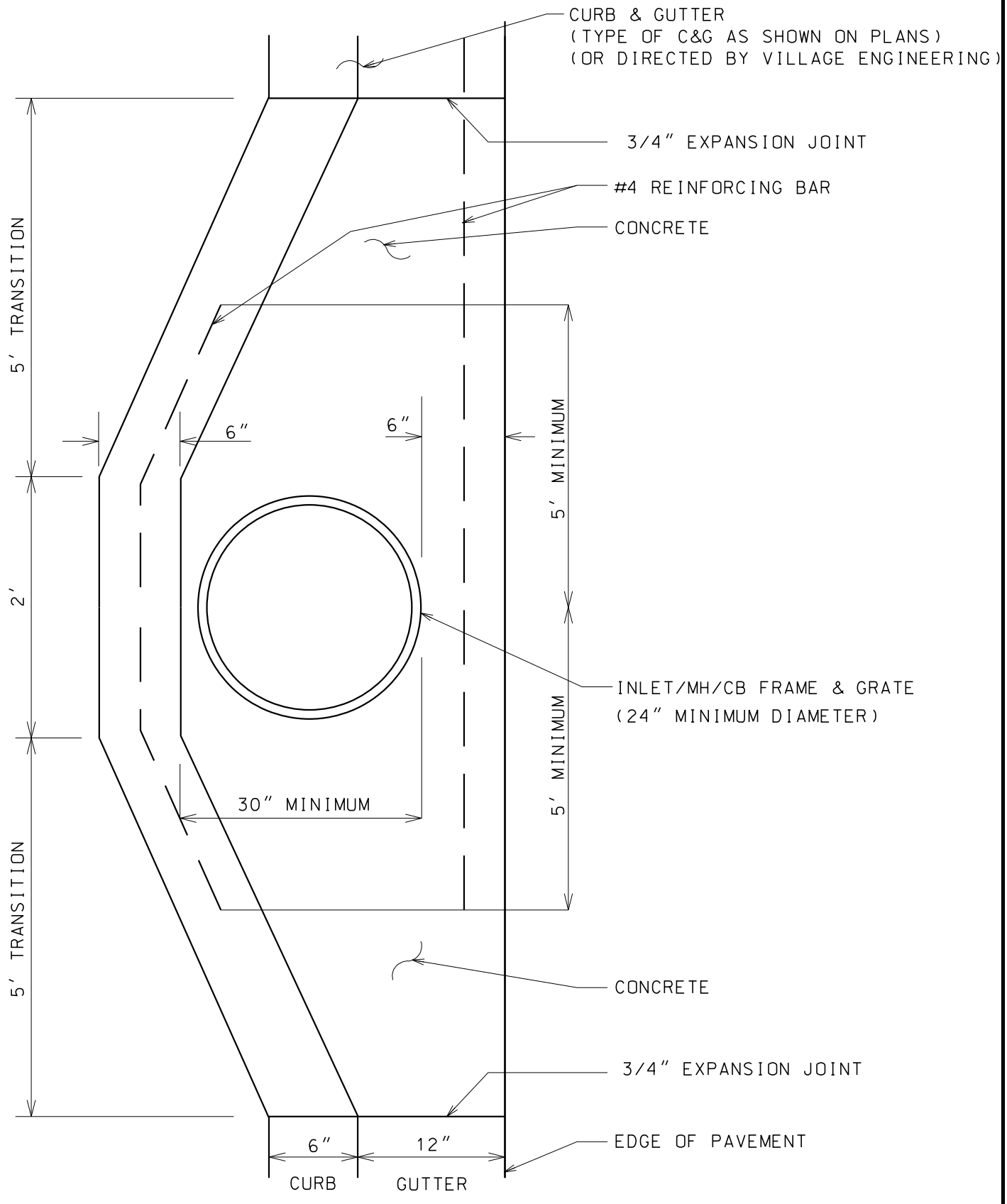
5. CURBS, SPANNING UTILITY TRENCHES, SHALL BE CONSTRUCTED WITH TWO #4 REINFORCEMENT BARS, WHICH EXTEND FIVE (5) FEET BEYOND THE TRENCH WALLS.

6. SAW CUTTING EXISTING CURB & GUTTER LOCATIONS TO CREATE DEPRESSED CURB IS NOT ALLOWED WITHOUT PRIOR APPROVAL BY VILLAGE ENGINEER.

NOT TO SCALE

REVISED: 3-15-22

M-3.12 CURB & GUTTER DETAIL

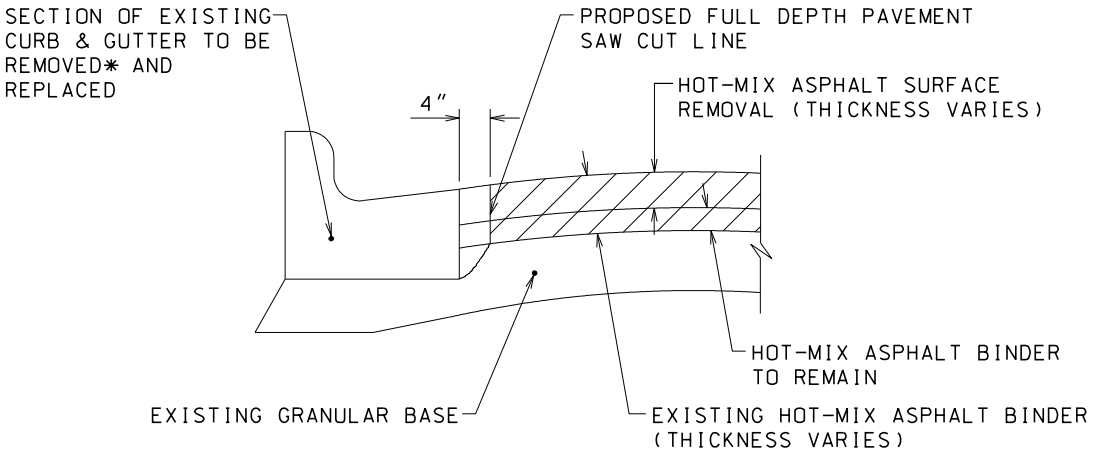


PLAN VIEW

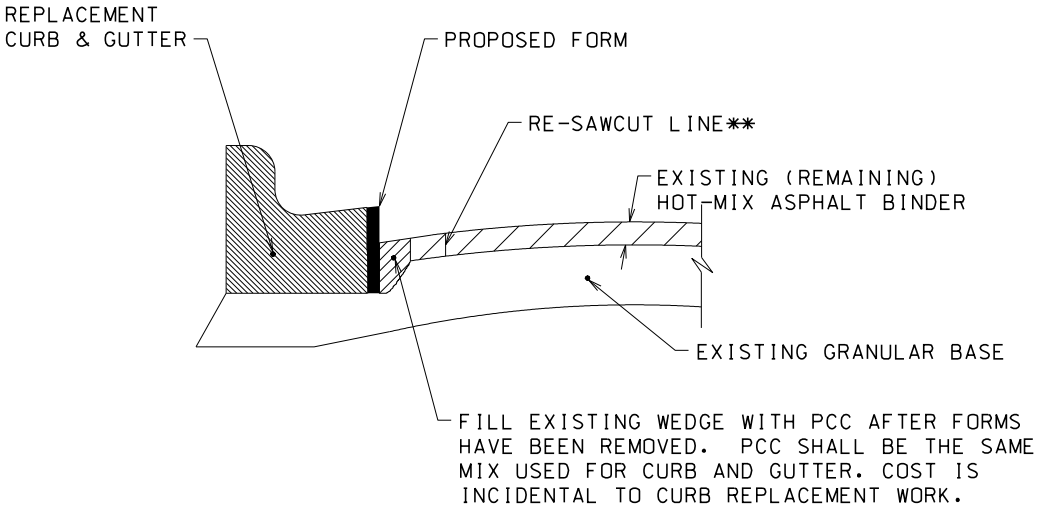
NOT TO SCALE

CURB STRUCTURE DETAIL

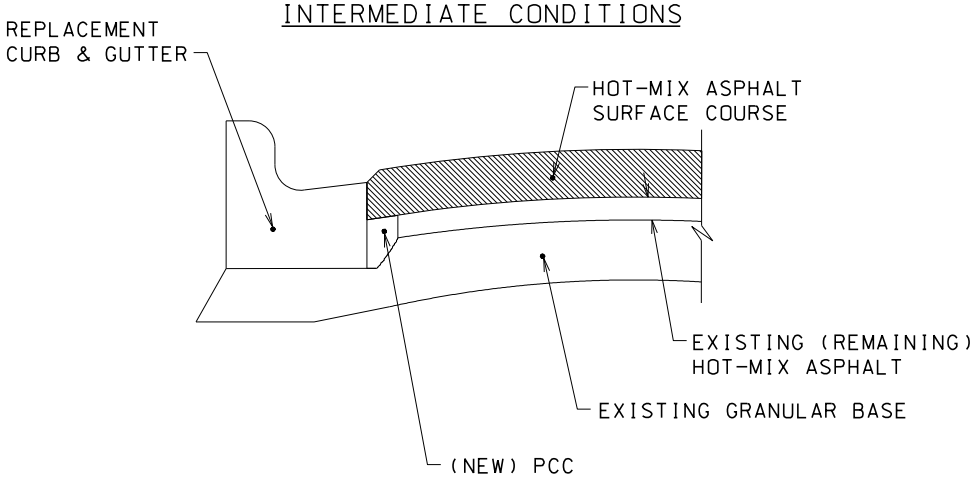
REVISED: 3-15-22



EXISTING CONDITIONS



INTERMEDIATE CONDITIONS



FINAL CONDITIONS

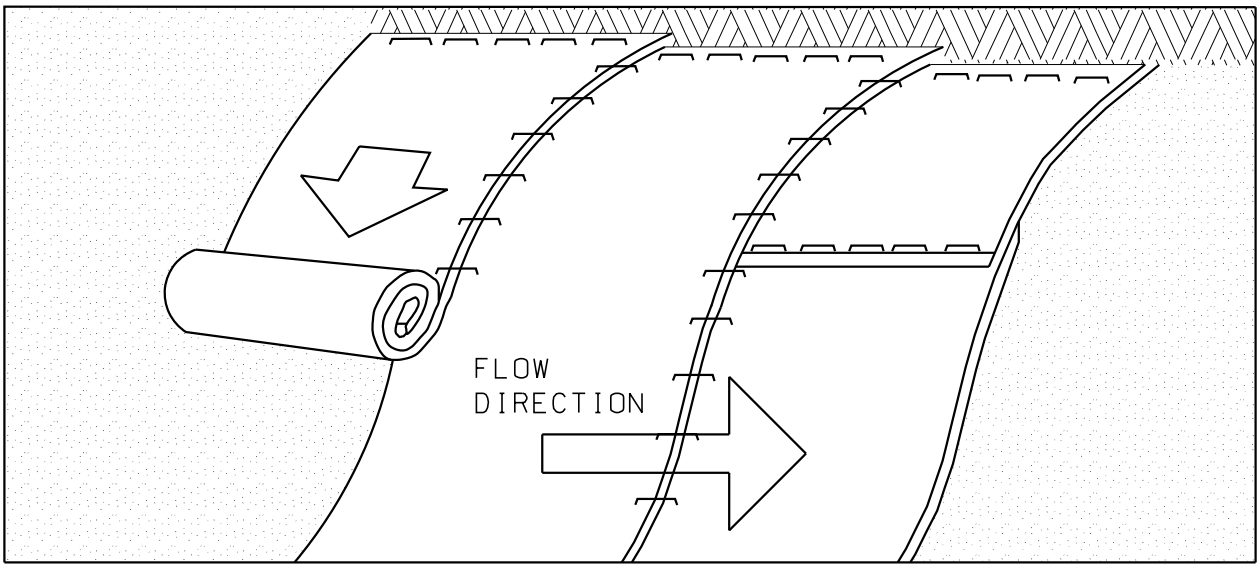
* CURB & GUTTER SHALL BE SAWCUT (FULL DEPTH) PRIOR TO CURB & GUTTER SECTION REMOVAL FOR REPLACEMENT.

** RE-SAWCUT ANY DAMAGED PAVEMENT EDGE TO PROVIDE A CLEAN STRAIGHT EDGE FOR PCC.

NOT TO SCALE

CURB & GUTTER REMOVAL AND REPLACEMENT DETAIL

REVISED: 3-15-22



SLOPE INSTALLATION

NOTES:

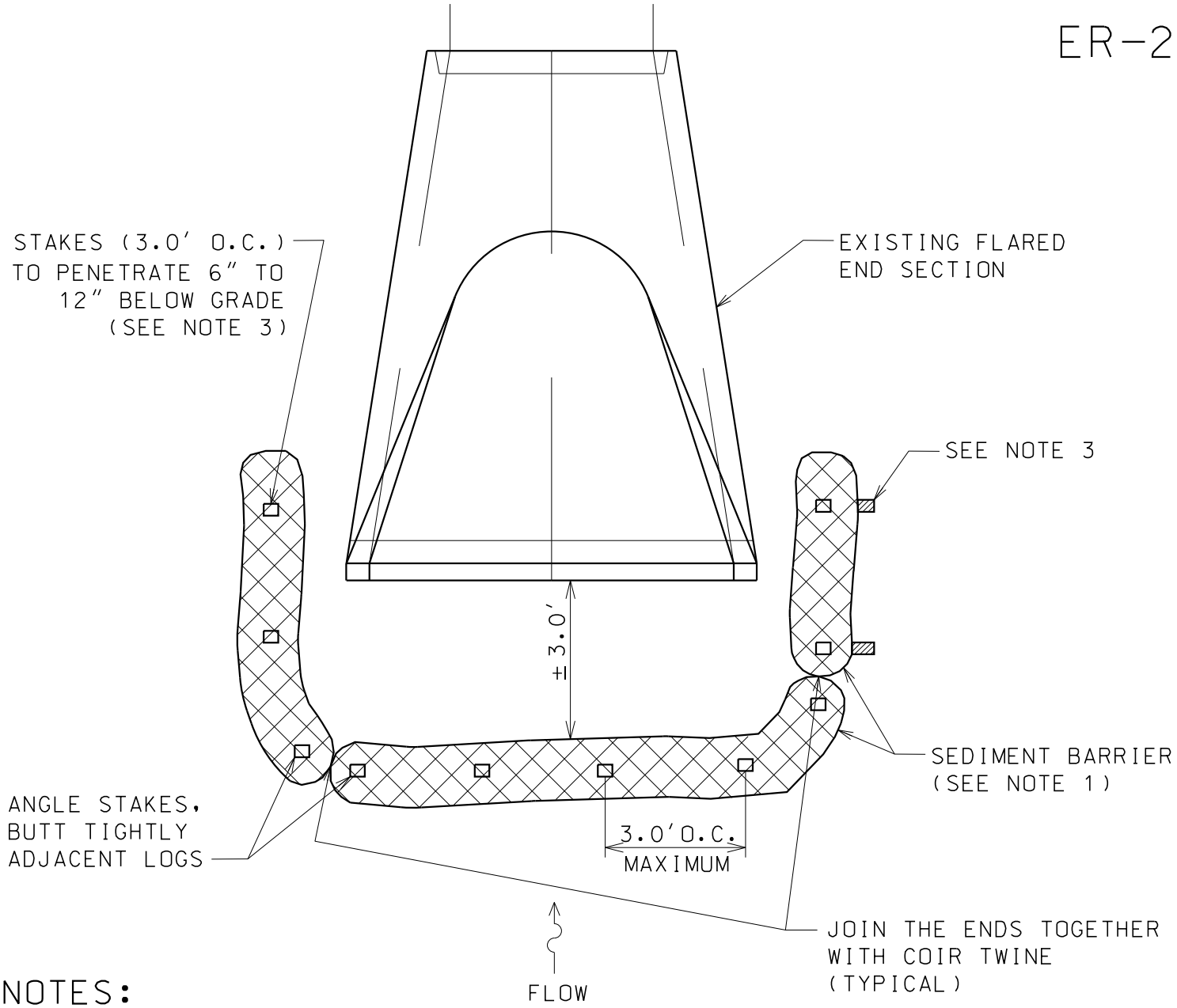
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE (OR CHANNEL) BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKETS DOWN (STARTING AT DOWNSTREAM PROCEEDING UPSTREAM) HORIZONTALLY ACROSS THE SLOPE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH AN APPROXIMATE (MIN) 4" OVERLAP.
5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY A (MIN) 6" OVERLAP. USE A DOUBLE ROW OF STAGGERED STAPLES 4" APART TO SECURE BLANKETS.
6. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A ROW OF STAPLES 4" APART OVER ENTIRE WIDTH OF THE CHANNEL. PLACE A SECOND ROW 4" BELOW THE FIRST ROW IN A STAGGERED PATTERN.
7. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

NOT TO SCALE

REVISED: 3-15-22

EROSION CONTROL BLANKET DETAIL

ER-2



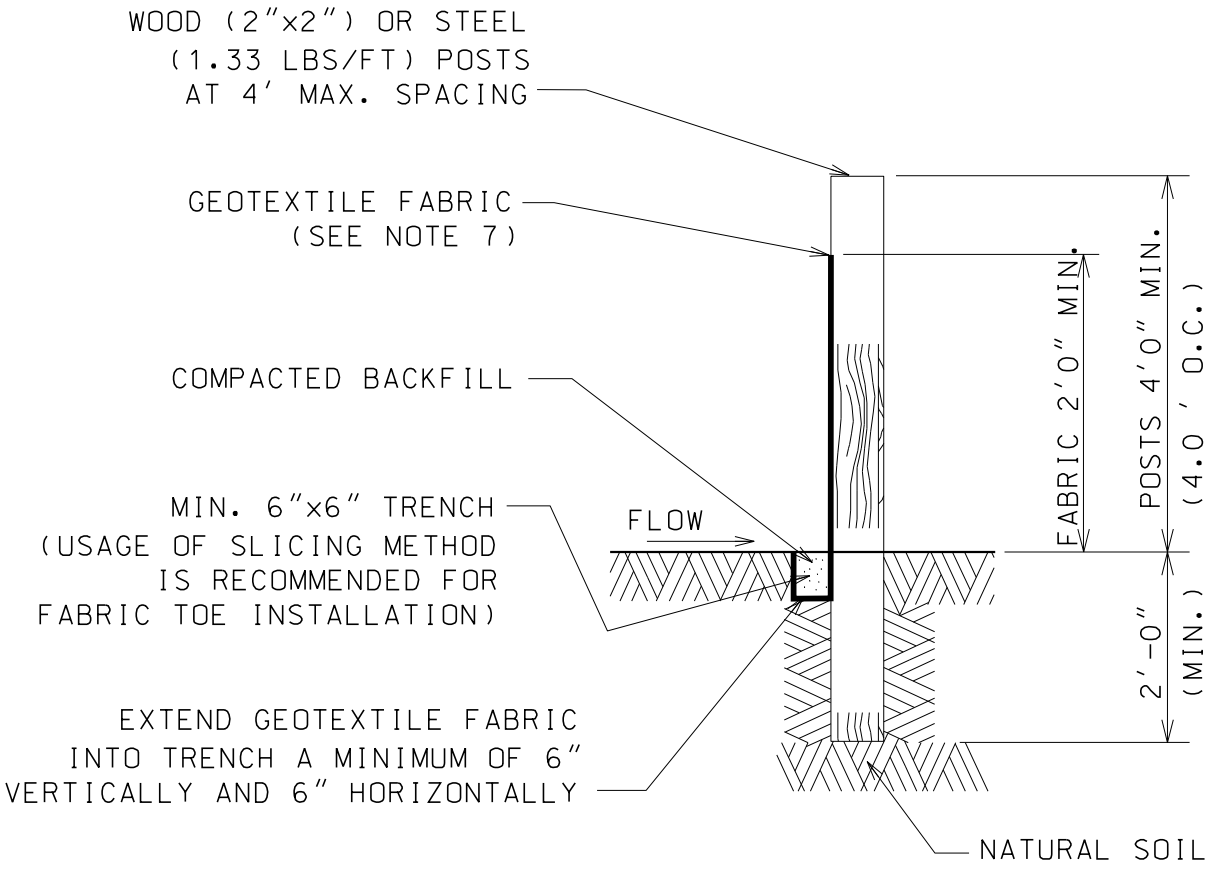
NOTES:

1. COIR LOGS, GRAVEL BAGS (OR APPROVED BY THE ENGINEER EQUAL) EROSION CONTROL AND SEDIMENT BARRIER MATERIAL SHALL BE USED.
2. SEDIMENT BARRIERS SHALL BE PLACED WITH ENDS TIGHTLY ABUTTING THE ADJACENT SEDIMENT BARRIERS TO CREATE A CONTINUOUS BARRIER.
3. WOODEN WEDGES AND/OR STAPLES AS PER MANUFACTURER'S PRODUCT SPECIFICATIONS MAY BE USED FOR SEDIMENT BARRIER STABILIZATION.
4. INSPECTION OF SEDIMENT BARRIERS SHALL BE AT LEAST ONCE PER WEEK AND AFTER RAIN EVENTS IN EXCESS OF HALF INCH (1/2") PER DAY OR EQUAL SNOW MELT. REPAIR OR REPLACEMENT OF SEDIMENT BARRIER SHALL BE MADE PROMPTLY AS NEEDED.
5. REMOVE ACCUMULATED SEDIMENT WHEN SEDIMENT DEPTH AT THE BARRIER IS APPROXIMATELY EQUAL TO ONE-HALF OF BARRIERS HEIGHT.
6. SEDIMENT BARRIERS SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION AND ONLY WHEN DIRECTED BY VILLAGE ENGINEERING.

NOT TO SCALE

REVISED: 3-15-22

FLARED END SECTION EROSION CONTROL DETAIL



NOTES:

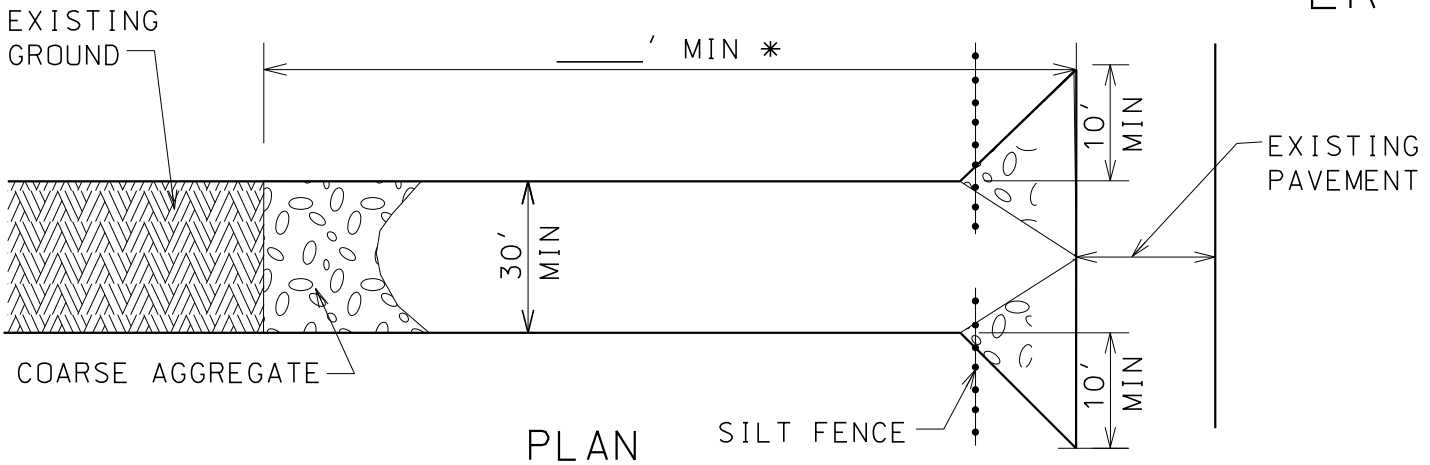
1. SILT FENCE SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS AND WHERE INDICATED BY VILLAGE ENGINEERING.
2. ATTACH GEOTEXTILE FABRIC TO WIRE MESH WITH HOG RINGS, TO WOOD POSTS WITH NAILS, AND TO STEEL POSTS WITH TIE-WIRES AT TOP AND MID-SECTION.
3. OVERLAP GEOTEXTILE FABRIC BY 6" AND FOLD WHERE 2 SECTIONS ADJOIN.
4. INSPECTION OF SILT FENCES SHALL BE AT LEAST ONCE PER WEEK AND AFTER RAIN EVENTS IN EXCESS OF HALF INCH (½") PER DAY OR EQUAL SNOW MELT. REPAIR OR REPLACEMENT OF SILT FENCE SHALL BE MADE PROMPTLY AS NEEDED.
5. SEDIMENT TRAPPED BY THE SILT FENCE SHALL BE REMOVED (AND PROMPTLY DISPOSED OF) WHENEVER SEDIMENT ACCUMULATION DEPTH AT THE SILT FENCE IS APPROXIMATELY EQUAL TO TWELVE (12) INCHES (ONE-HALF OF SILT FENCE HEIGHT).
6. MATERIAL (GEOTEXTILE & POST) INSTALLATION, MAINTENANCE, AND SILT FENCE REMOVAL SHALL COMPLY WITH AASHTO, M 288 REQUIREMENTS.
7. THE FABRIC FOR SILT FENCE SHALL BE A WOVEN FABRIC MEETING THE REQUIREMENTS OF AASHTO M 288 (TABLE 7) FOR UNSUPPORTED SILT FENCE WITH LESS THAN 50 PERCENT GEOTEXTILE ELONGATION.
8. SILT FENCE SHALL BE MAINTAINED IN PLACE UNTIL COMPLETION OF CONSTRUCTION AND THE UPSLOPE AREA HAS BEEN STABILIZED, AND SHALL BE REMOVED ONLY WHEN DIRECTED BY VILLAGE ENGINEERING.

NOT TO SCALE

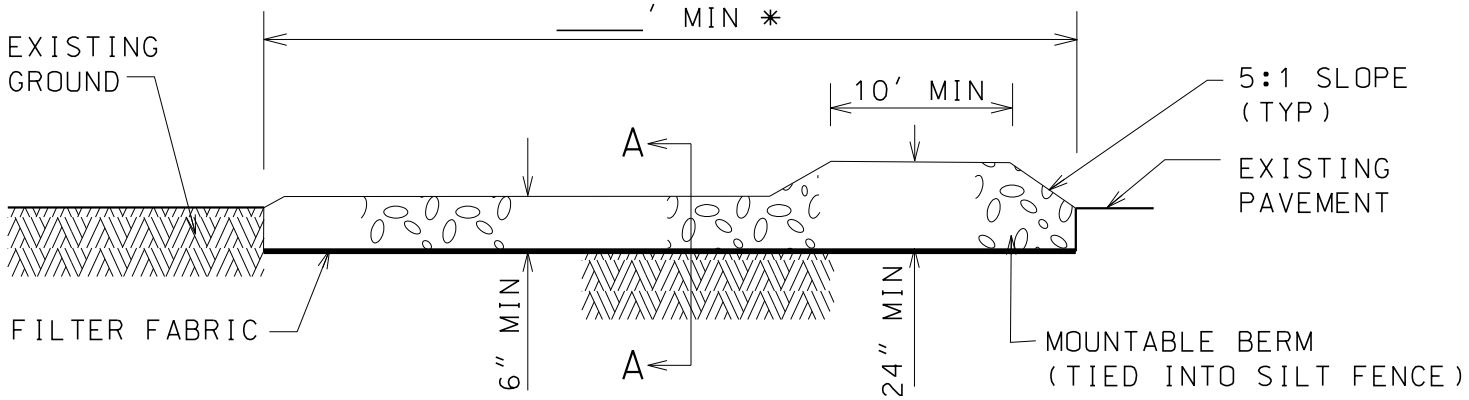
SILT FENCE DETAIL

REVISED: 3-15-22

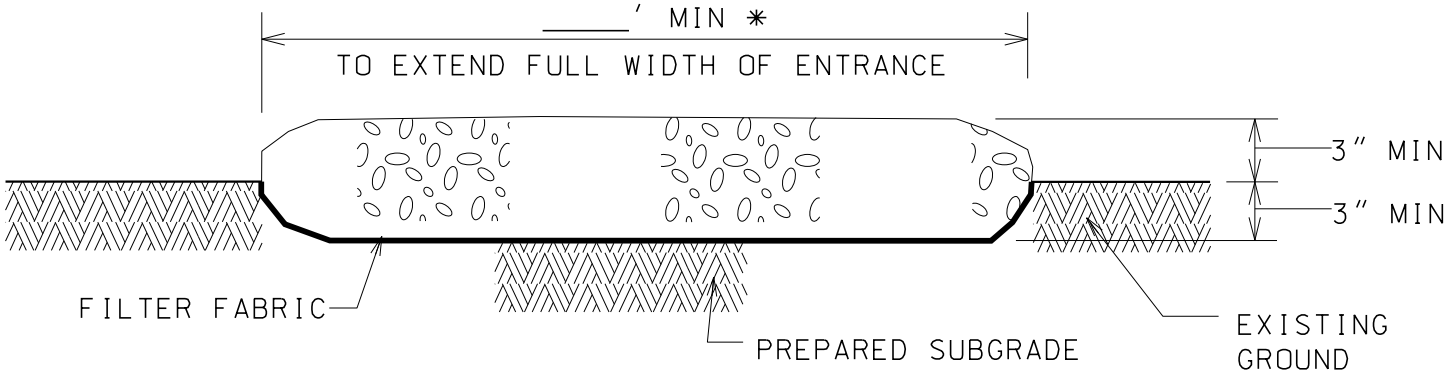
ER-4



PLAN



ELEVATION



SECTION A-A

NOTES:

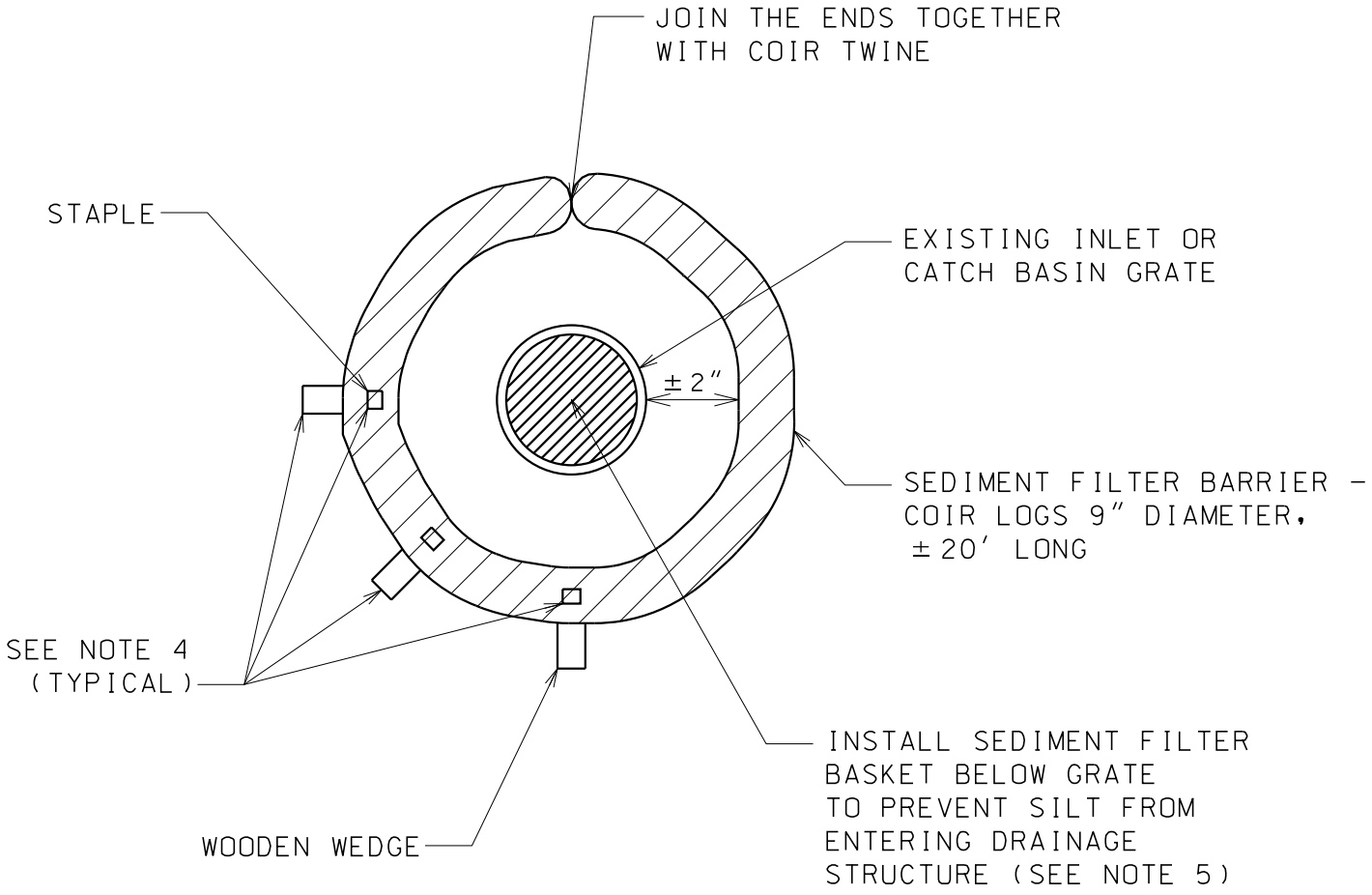
1. GEOTEXTILE FILTER FABRIC SHALL BE PLACED OVER THE CLEARED AREA PRIOR TO PLACING COARSE AGGREGATE
2. COARSE AGGREGATE (OR CRUSHED CONCRETE) SHALL MEET IDOT GRADATION FOR CA-1 CRUSHED AGGREGATE.
3. STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED, PRIOR TO ONSET OF CONSTRUCTION OPERATIONS AND SHALL BE MAINTAINED THROUGHOUT THE PROJECT.
4. CONSTRUCTION ENTRANCE SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION AND ONLY WHEN DIRECTED BY VILLAGE ENGINEERING.

* LENGTH AND WIDTH OF CONSTRUCTION ENTRANCE TO BE SPECIFIED BY DESIGNER (FILL IN BLANKS) AND REVIEWED BY THE VILLAGE.

REVISED: 3-15-22

NOT TO SCALE

STABILIZED CONSTRUCTION ENTRANCE DETAIL



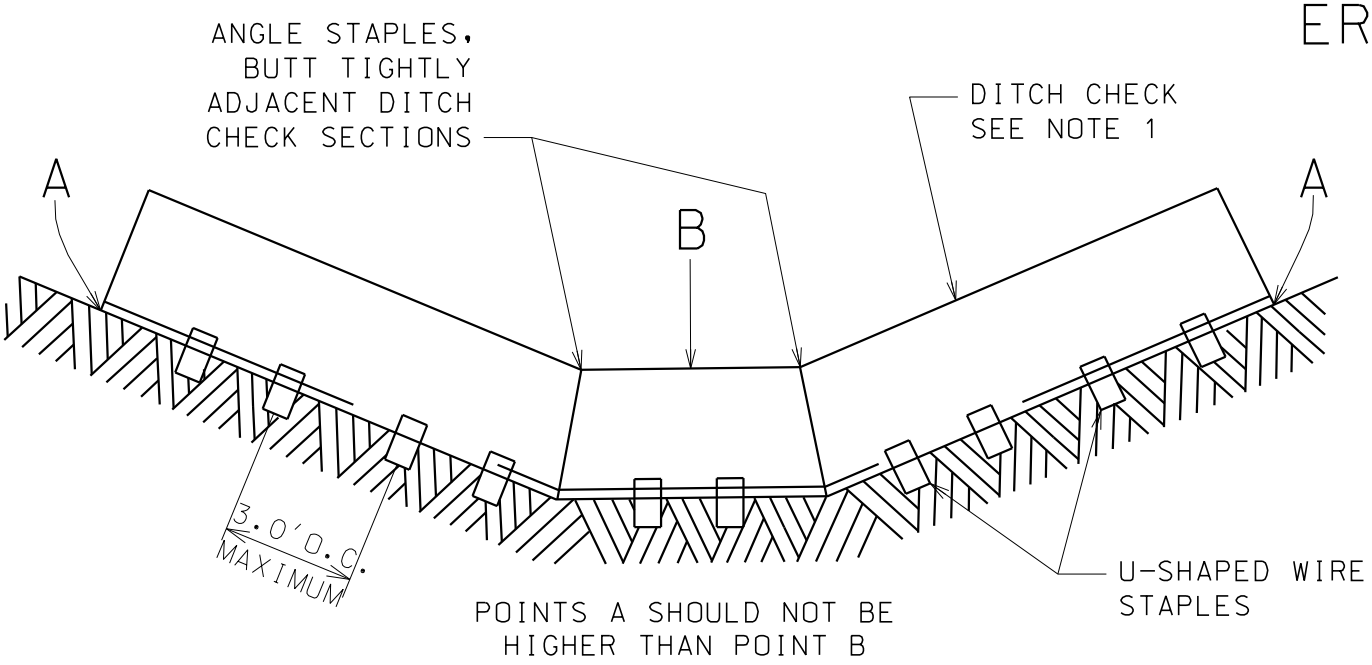
NOTES:

1. SEDIMENT FILTER BARRIERS (COIR LOGS OR APPROVED EQUAL) AND FILTER BASKETS SHALL BE INSTALLED AND MAINTAINED FOR ALL STORM SEWER INLETS, CATCH BASINS AND MANHOLES WITH OPEN GRATES, AS DIRECTED BY VILLAGE ENGINEERING.
2. SEDIMENT FILTER BARRIERS SHALL BE PLACED WITH ENDS TIGHTLY ABUTTING THE ADJACENT SEDIMENT BARRIERS TO CREATE A CONTINUOUS BARRIER.
3. EACH SEDIMENT BARRIER SHALL BE STAPLED (3.0′ O.C.). STAPLES TO PENETRATE 6″ TO 12″ BELOW GRADE.
4. WOODEN WEDGES AND/OR STAPLES AS PER MANUFACTURER'S PRODUCT INSTALLATION SPECIFICATIONS.
5. REINFORCED FILTER BASKETS SHALL BE USED FOR SEDIMENT CONTROL. SEE STANDARD DETAILS ER-8, ER-9.
6. INSPECTION OF SEDIMENT BARRIERS AND FILTER BASKETS SHALL BE AT LEAST ONCE PER WEEK AND AFTER RAIN EVENTS IN EXCESS OF HALF INCH (½″) PER DAY OR EQUAL SNOW MELT. REPAIR OR REPLACEMENT OF SEDIMENT FILTER SHALL BE MADE PROMPTLY AS NEEDED.
7. REMOVE ACCUMULATED SEDIMENT WHEN SEDIMENT DEPTH AT THE FILTER BARRIER IS APPROXIMATELY EQUAL TO ONE-HALF OF BARRIER'S HEIGHT.
8. SEDIMENT BARRIERS AND FILTER BASKETS SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION AND ONLY WHEN DIRECTED BY VILLAGE ENGINEERING.

NOT TO SCALE

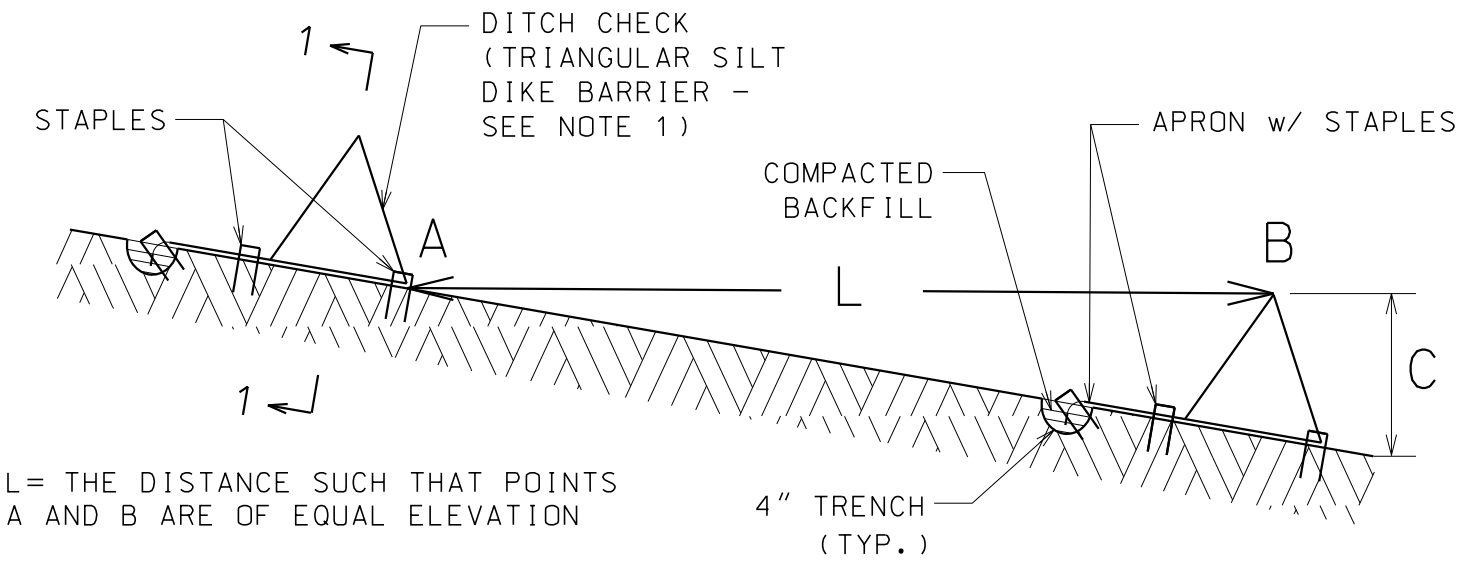
ABOVE GRADE INLET FILTERS

REVISED: 3-15-22



SECTION 1-1

PLACEMENT OF SILT DIKES IN DRAINAGEWAY



SPACING BETWEEN TEMPORARY DITCH CHECKS

NOTES:

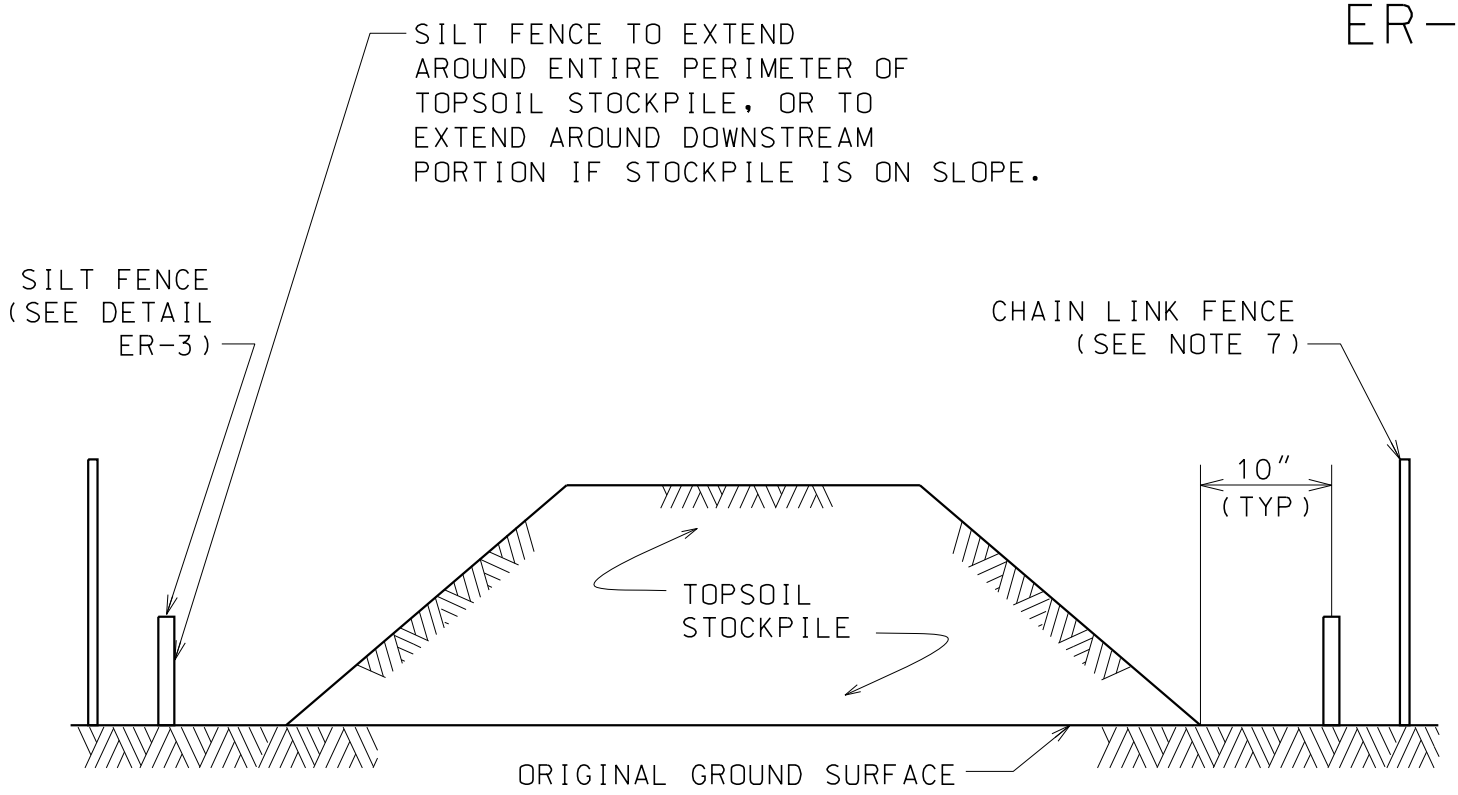
1. COIR LOGS, GEORIDGE OR SEDIMENT STOP FILTRATION SYSTEM MAY BE USED IN LIEU OF TRIANGULAR SILT DIKE BARRIER IF APPROVED BY THE ENGINEER.
2. INSPECTION OF SILT DIKES SHALL BE AT LEAST ONCE PER WEEK AND AFTER RAIN EVENTS IN EXCESS OF HALF INCH (½") PER DAY OR EQUAL SNOW MELT. REPAIR OR REPLACEMENT OF DITCH CHECK SHALL BE MADE PROMPTLY AS NEEDED.
3. REMOVE SEDIMENT WHEN SEDIMENT DEPTH AT THE DITCH CHECK IS APPROXIMATELY EQUAL TO ONE-HALF OF DIKE'S HEIGHT (0.5C).
4. SILT DIKES SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION AND ONLY WHEN DIRECTED BY THE VILLAGE ENGINEERING.

NOT TO SCALE

REVISED: 3-15-22

TEMPORARY DITCH CHECK DETAIL

ER-7



NOTES:

1. AN ON-SITE DRAINAGE SWALE SHALL BE LOCATED BETWEEN THE TOPSOIL STOCKPILE AND OFF-SITE PROPERTY.

2. REFERENCE IS MADE TO THE SILT FENCE DETAIL (ER-3) FOR MATERIALS AND INSTALLATION METHODS.

3. IF THE STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, IT SHALL BE STABILIZED WITH STRAW BLANKET OR SEEDED TO MINIMIZE EROSION.

4. INSPECTION OF SILT FENCES SHALL BE AT LEAST ONCE PER WEEK AND AFTER RAIN EVENTS IN EXCESS OF HALF INCH (1/2") PER DAY OR EQUAL SNOW MELT. REPAIR OR REPLACEMENT OF SILT FENCE SHALL BE MADE PROMPTLY AS NEEDED.

5. SEDIMENT TRAPPED BY THE SILT FENCES SHALL BE REMOVED AND PROPERLY DISPOSED OF WHENEVER SEDIMENT ACCUMULATION DEPTH AT THE SILT FENCE IS APPROXIMATELY EQUAL TO TWELVE (12) INCHES (ONE-HALF OF SILT FENCE HEIGHT).

6. SILT FENCES SHALL BE MAINTAINED IN PLACE UNTIL TOPSOIL STOCKPILE HAS BEEN ELIMINATED AND SHALL BE REMOVED ONLY WHEN DIRECTED BY VILLAGE ENGINEERING.

7. TO COMPLY WITH THE VILLAGE'S SAFETY REQUIREMENTS ERECTION OF STABLE AND SECURE SIX (6) FEET HIGH CHAIN LINK FENCE AROUND THE PERIMETER OF THE STOCKPILED MATERIAL IS REQUIRED. COORDINATE WITH THE ENGINEER.

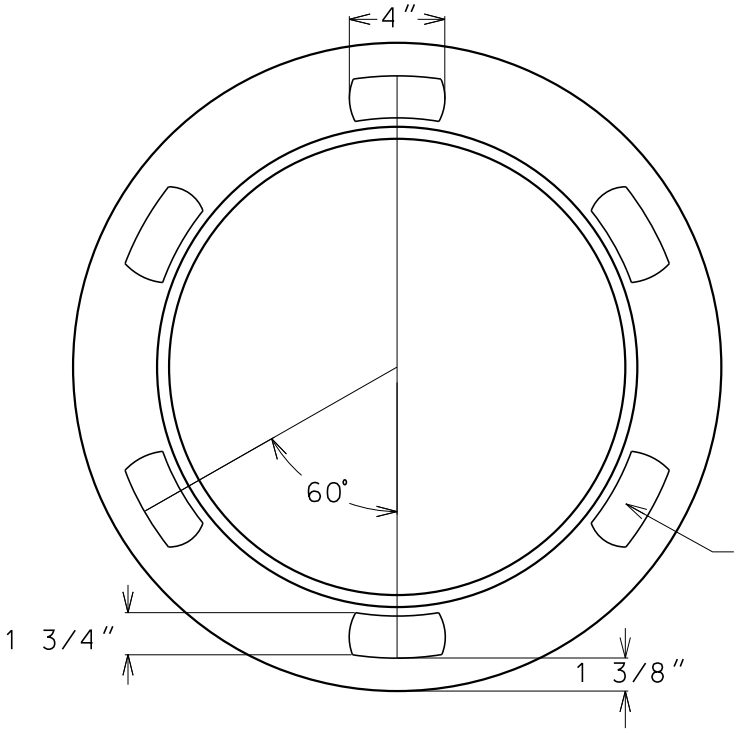
8. STOCKPILING OF MATERIALS SHALL BE OUTSIDE OF THE CRITICAL ROOT ZONE OF ALL TREES.

NOT TO SCALE

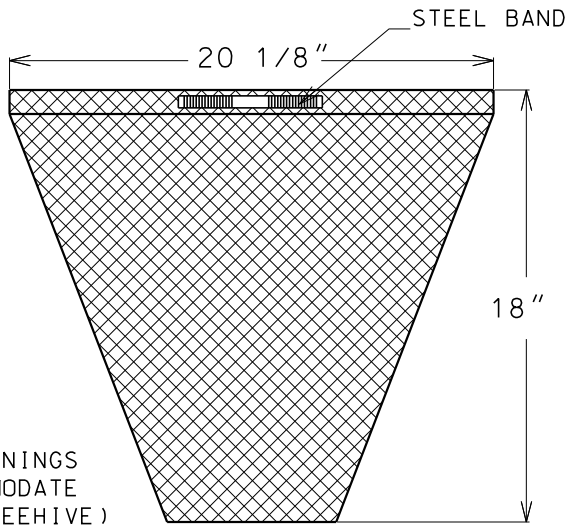
TEMPORARY TOPSOIL STOCKPILE DETAIL

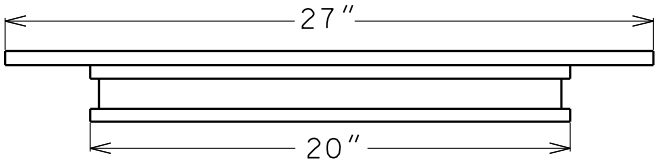
REVISED: 3-15-22

FRAME - PLAN VIEW



SEDIMENT BAG - SECTION





FRAME - SECTION

GENERAL NOTES:

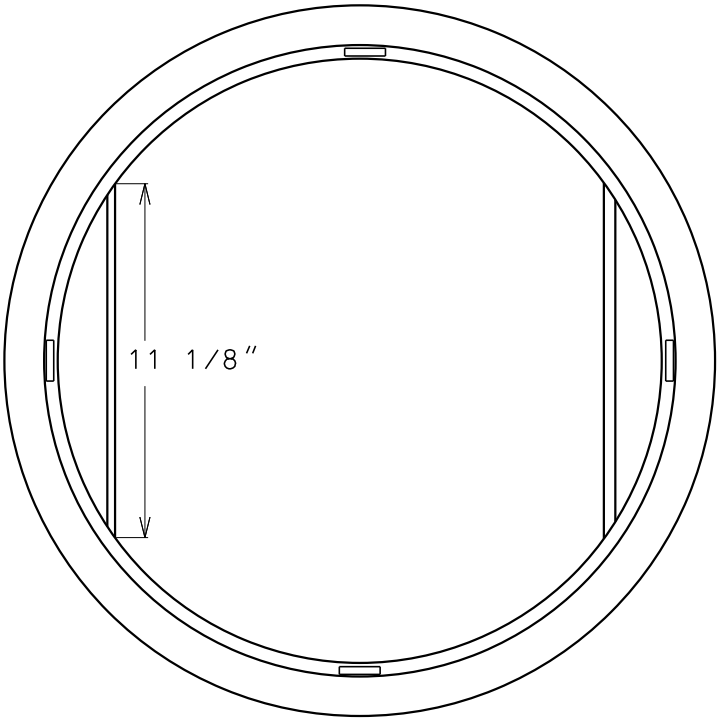
FRAME: TOP FLANGE FABRICATED FROM ⅛" FLAT STOCK. BASE RIM FABRICATED FROM 1½"X1/2"X1/8" CHANNEL. ALL STEEL CONFORMING TO ASTM-A36.
SEDIMENT BAG: BAG FABRICATED FROM 4 OZ./ SQ.YD. NON-WOVEN POLYPROPYLENE GEOTEXTILE REINFORCED WITH POLYESTER MESH. BAG SECURED TO BASE RIM WITH A STAINLESS STEEL STRAP AND LOCK.

NOT TO SCALE

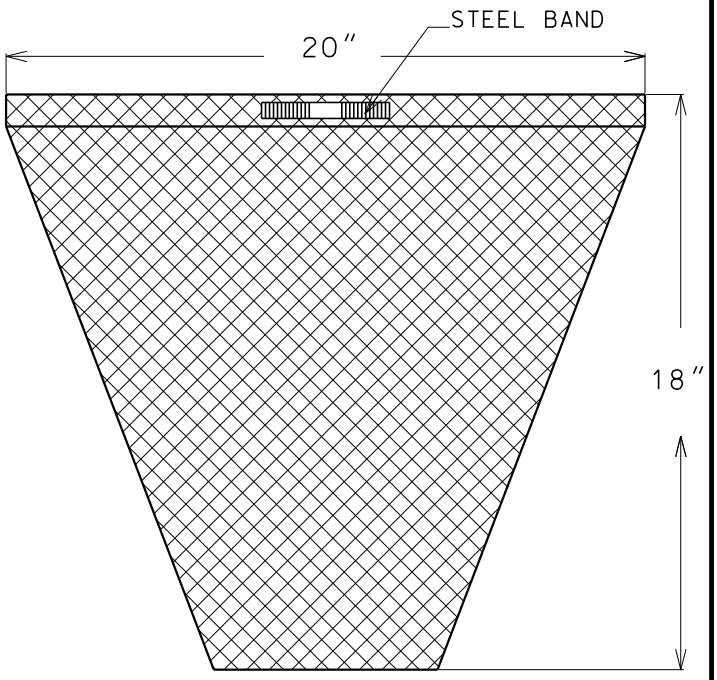
FILTER FOR BEEHIVE GRATE (TYPE 8) DETAIL

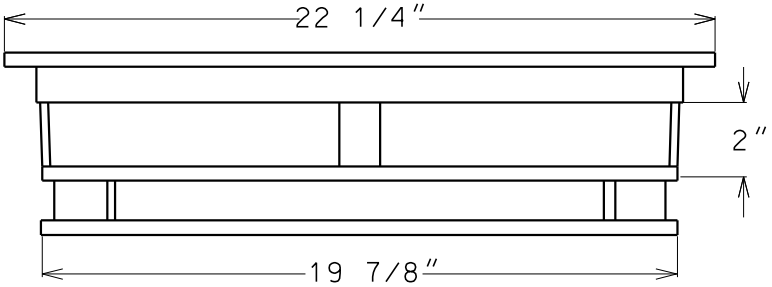
REVISED: 3-15-22

FRAME - PLAN VIEW



SEDIMENT BAG - SECTION





FRAME - SECTION

GENERAL NOTES:

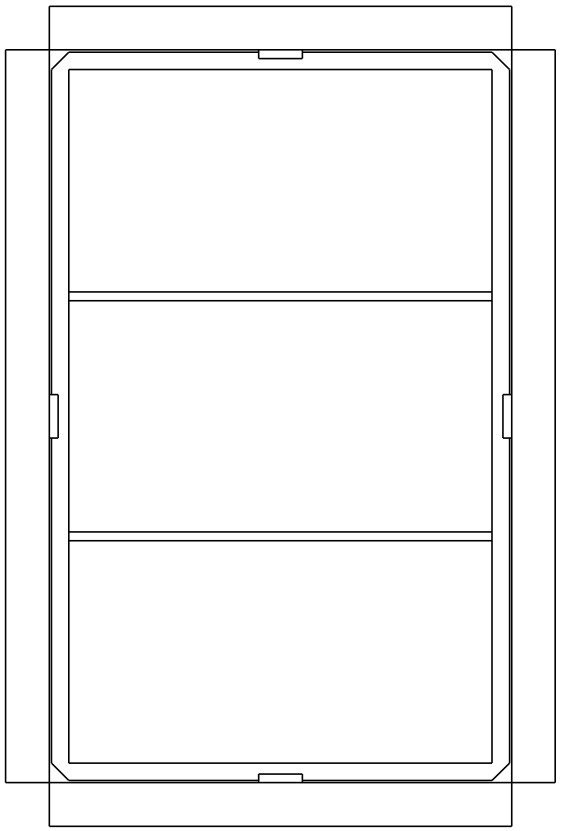
FRAME: TOP FLANGE FABRICATED FROM 1¼"X1¼"X1/8" ANGLE. BASE RIM FABRICATED FROM 1½"X1/2"X1/8" CHANNEL. HANDLES AND SUSPENSION BRACKETS FABRICATED FROM 1¼"X1/4" FLAT STOCK. ALL STEEL CONFORMING TO ASTM-A36.
SEDIMENT BAG: BAG FABRICATED FROM 4 OZ./ SQ.YD. NON-WOVEN POLYPROPYLENE GEOTEXTILE REINFORCED WITH POLYESTER MESH. BAG SECURED TO BASE RIM WITH A STAINLESS STEEL STRAP AND LOCK.
FILTER FOR OTHER SHAPE GRATES SHALL BE APPROVED IN ADVANCE OF PLACEMENT BY VILLAGE ENGINEERING.

NOT TO SCALE

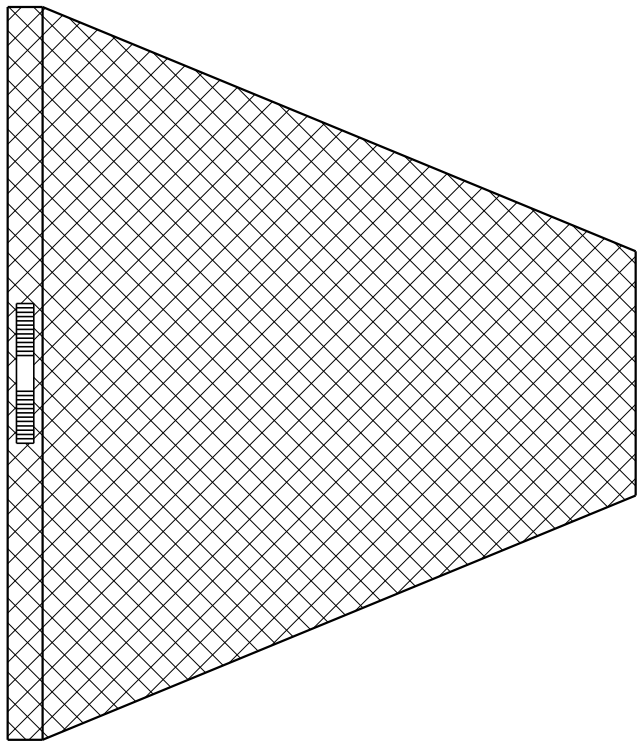
REVISED: 3-15-22

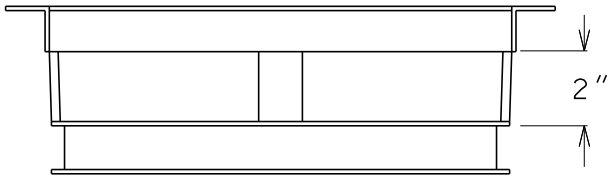
FILTER FOR ROUND OPEN (TYPE 1) GRATE & FRAME DETAIL

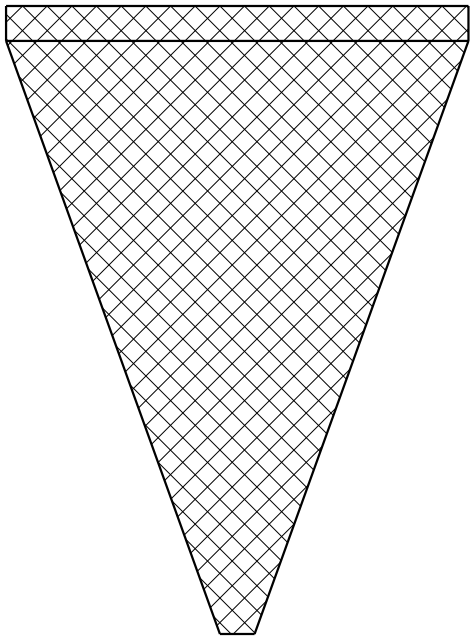
FRAME - PLAN VIEW



SEDIMENT BAG - SECTION







GENERAL NOTES:

FRAME: TOP FLANGE FABRICATED FROM 1¼"X1¼"X1/8" ANGLE. BASE RIM FABRICATED FROM 1½"X1/2"X1/8" CHANNEL. HANDLES AND SUSPENTION BRACKETS FABRICATED FROM 1¼"X1/4" FLAT STOCK. ALL STEEL CONFORMING TO ASTM-A36.
SEDIMENT BAG: BAG FABRICATED FROM 4 OZ./ SQ.YD. NON-WOVEN POLYPROPYLENE GEOTEXTILE REINFORCED WITH POLYESTER MESH. BAG SECURED TO BASE RIM WITH A STAINLESS STEEL STRAP AND LOCK.

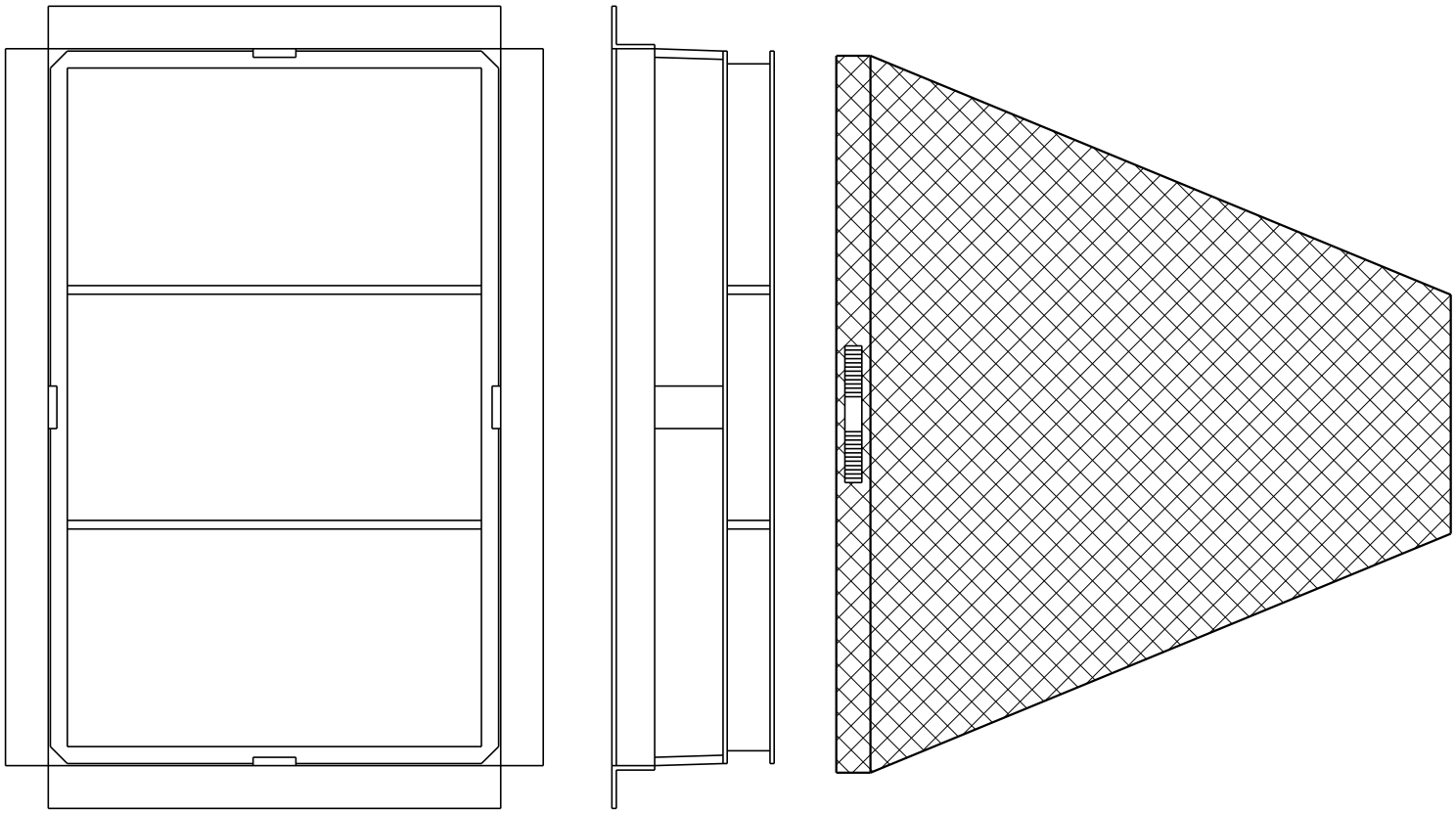
NOT TO SCALE

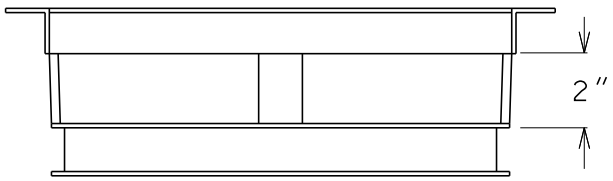
REVISED: 3-15-22

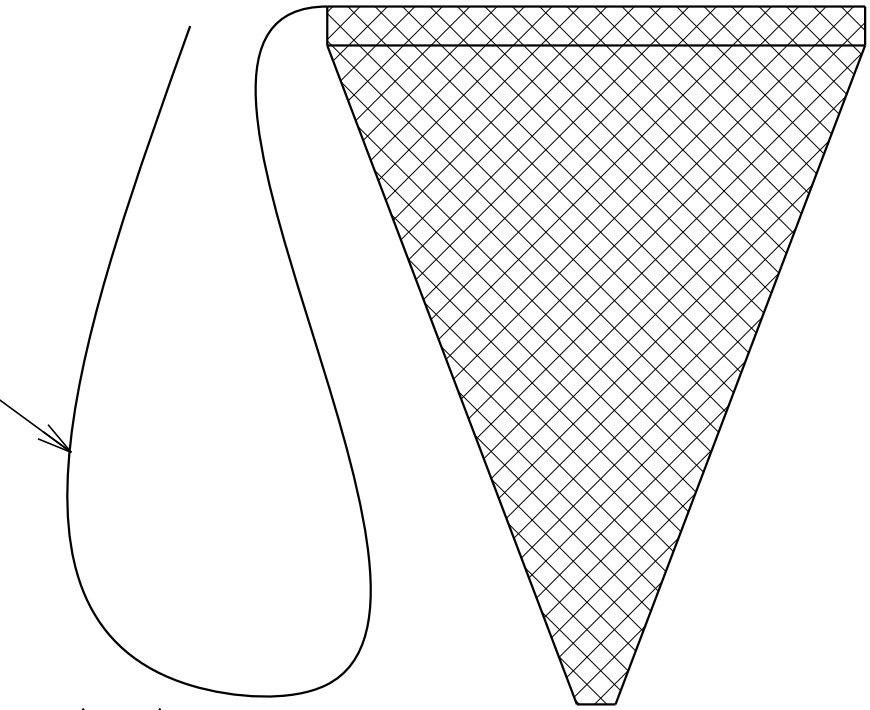
TYPICAL RECTANGULAR CATCH-ALL

FRAME - PLAN VIEW

SEDIMENT BAG - SECTION







GENERAL NOTES:

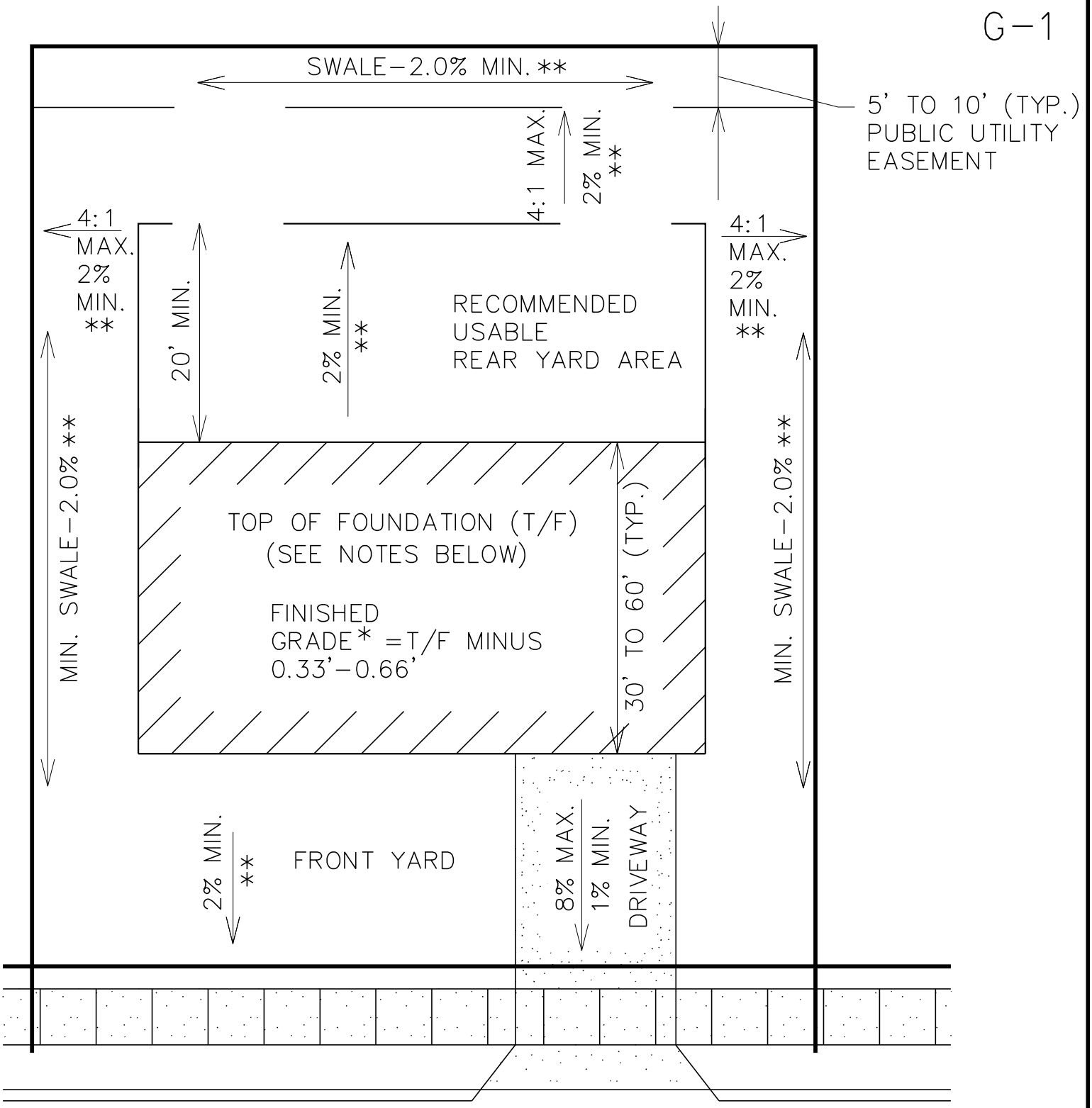
FRAME: TOP FLANGE FABRICATED FROM 1¼"X1¼"X1/8" ANGLE. BASE RIM FABRICATED FROM 1½"X1/2"X1/8" CHANNEL. HANDLES AND SUSPENTION BRACKETS FABRICATED FROM 1¼"X1/4" FLAT STOCK. ALL STEEL CONFORMING TO ASTM-A36.
SEDIMENT BAG: BAG FABRICATED FROM 4 OZ./ SQ.YD. NON-WOVEN POLYPROPYLENE GEOTEXTILE REINFORCED WITH POLYESTER MESH. BAG SECURED TO BASE RIM WITH A STAINLESS STEEL STRAP AND LOCK.

NOT TO SCALE

REVISED: 3-15-22

TYPICAL CURB BOX CATCH-ALL

G-1



* IF THE BUILDING IS MULTI-LEVEL, SHOW PROPOSED TOP OF FOUNDATION AND FINISHED GRADE AT ALL LEVELS.

** UNLESS APPROVED OTHERWISE BY VILLAGE ENGINEERING.

THE PROPOSED T/F CANNOT BE LOWER THAN THE EXISTING T/F WITHOUT THE PRIOR WRITTEN APPROVAL OF THE VILLAGE. THE T/F CANNOT EXCEED THE EXISTING T/F OR THE AVERAGE T/F OF THE ADJACENT LOTS, WHICHEVER IS GREATER, WITHOUT THE PRIOR WRITTEN APPROVAL OF THE VILLAGE. HIGHER T/F'S FOR FLOOD PROTECTION MAY BE ALLOWED OR REQUIRED BY THE VILLAGE. ALL PROPOSED T/F ELEVATIONS ARE SUBJECT TO REVIEW BY THE VILLAGE.

NOT TO SCALE

LOT GRADING DETAIL

REVISED: 3-15-22

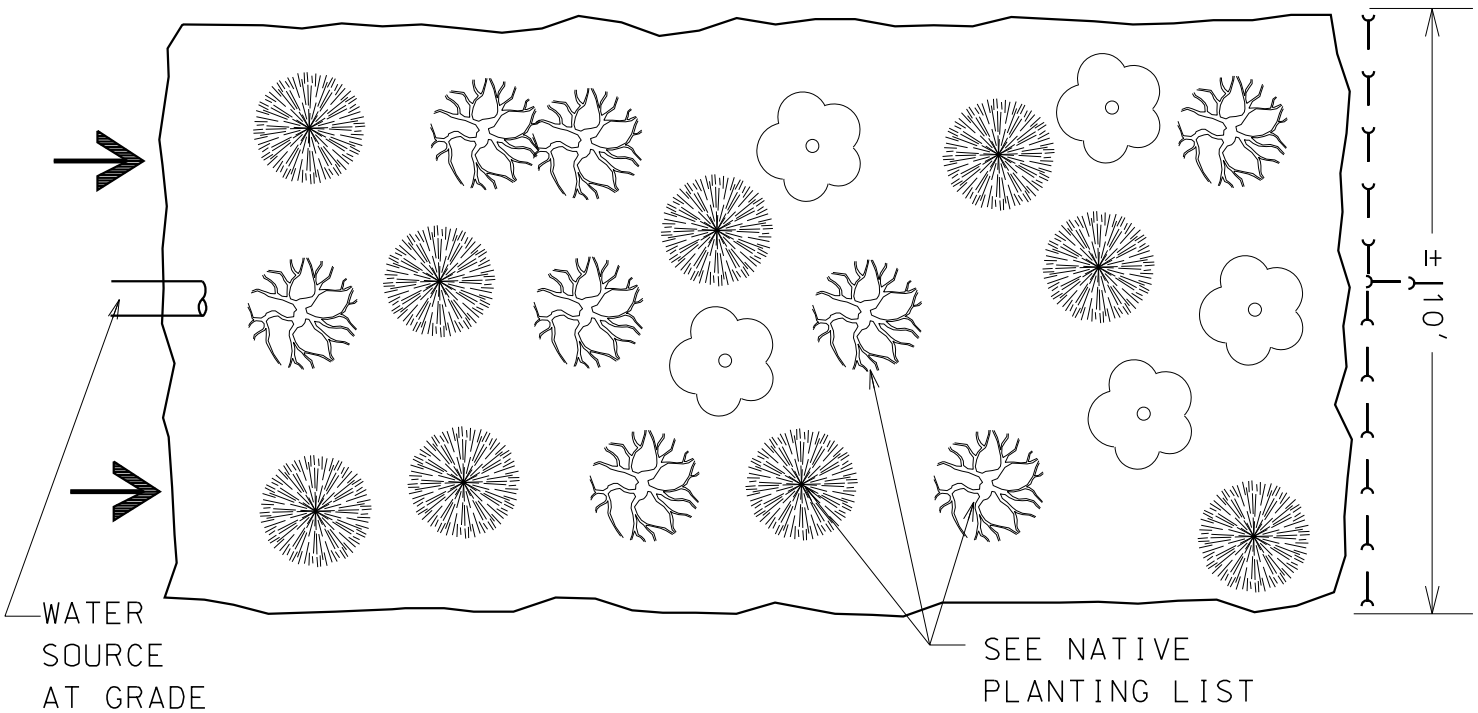
EXISTING	PROPOSED	
		BENCHMARK (BM)
x	x	BIKE PATH ELEVATION
x	x	BIKE ROUTE ELEVATION
—CL—		CABLE LINE
CT		COMMUNICATIONS TOWER
x	x	DRIVEWAY ELEVATION
		ELECTRIC CONTROLLER
—E—	—E—	ELECTRIC LINE
		ELECTRIC MANHOLE
		ELECTRIC POLE
TR	TR	ELECTRIC TRANSFORMER
—x—	—x—	FENCE
—FOC—		FIBER OPTIC CABLE
—G—		GAS LINE
GV		GAS VALVE
		GUARDRAIL
IP		IRON PIPE
		MAIL BOX
		MONUMENT
		RAILROAD TRACKS
		RAILROAD CROSSING GATE
x	x	ROAD CENTERLINE
x	x	ROAD EDGE OF PAVEMENT
x	x	ROAD BACK OF CURB
x	x	ROAD FACE OF CURB
		FLOW LINE
		PAVEMENT MARKING
		PAVEMENT MARKING
		PAVEMENT MARKING
		PAVEMENT MARKING
		PAVEMENT MARKING
		PAVEMENT MARKING
		ROAD SIGN
		ROAD SIGN
		ROAD SIGN
ONE WAY		ROAD SIGN
		ROAD SIGN
		ROAD SIGN
		ROAD SIGN
x	x	SIDEWALK ELEVATIONS
		SIGN
		SIGN TYPE
S		SILO
—SF—	—SF—	SILT FENCE
x	x	SPOT ELEVATION
SLC	SLC	STREET LIGHT CABINET
		STREET LIGHT CONTROLER
		STREET LIGHT HAND HOLE
		STREET LIGHT POWER POLE
		STREET LIGHT
		STREET LIGHT CONDUIT
TANK		TANK
		TELEPHONE CONTROLLER
—T—		TELEPHONE LINE
		TELEPHONE MANHOLE
		TELEPHONE POLE
		TRAFFIC SIGNAL CONTROLLER
		TRAFFIC SIGNAL HAND HOLE
		TRAFFIC SIGNAL
		TRAFFIC SIGNAL POLE
		TR SIGNAL VEHICLE DETECTOR
		CONIFER TREE
		DECIDUOUS TREE
		BUSH OR SHRUB

EXISTING	PROPOSED	
		WATER MAIN
		WATER MAIN CAP-PLUG
		WATER MAIN SERVICE
		WATER MAIN B-BOX
		WATER MAIN HYDRANT
MP	MP	WATER MAIN METER PIT
		WATER MAIN VALVE AUX BOX
		WATER MAIN VALVE-VAULT
		WATER IRRIGATION
		WATER MAIN ABANDONED
LS	LS	SANITARY LIFT STATION
		SANITARY SEWER (SANS)
		SANITARY MWRD
		SANITARY CAP-PLUG
		SANITARY MANHOLE (SMH)
		SANITARY MANHOLE MWRD
		SANITARY SERVICE
		SANITARY CLEAN OUT (CO)
		SANITARY ABANDONED
LS	LS	STORM LIFT STATION
		STORM SEWER (SS)
		STORM CAP-PLUG
		STORM MANHOLE (STMH)
		STORM CATCH BASIN (CB)
		STORM INLET (INL)
		STORM SERVICE
		STORM UNDERDRAIN
		STORM CLEAN OUT (CO)
R	R	STORM RESTRICTOR
		STORM FLARED END SECTION (FES)
		STORM CULVERT
		STORM SWALE
		STORM HEADWALL
		STORM ABANDONED
		STATIONS
ROW		RIGHT OF WAY (ROW)
—100.0—	—100.0—	CONTOUR
ADJ		STRUCTURE TO BE ADJUSTED
R		STRUCTURE TO BE REMOVED
R&R		STRUCTURE TO BE REM.& REP.
ASPH		ASPHALT
CONC. PCC		CONCRETE
FC		FRAME & COVER
AR		ADJUSTING RINGS
AR&FC		ADJUSTING RINGS & FRAME & COVER
FV		FIELD VERIFY
CGC		CONCRETE DR. GOOD CONDITION
CFC		CONCRETE DR. FAIR CONDITION
CPC		CONCRETE DR. POOR CONDITION
BGC		BITUMINOUS DR. GOOD CONDITION
BFC		BITUMINOUS DR. FAIR CONDITION
BPC		BITUMINOUS DR. POOR CONDITION
BRP		BRICK PAVER
NW		NO WORK
EOP		EDGE OF PAVEMENT
B-B		BACK OF CURB TO BACK OF CURB
E-E		EDGE OF PAVEMENT TO EDGE OF PAV
10 25		SEWER SECTION TO BE REPLACED. DISTANCES ARE MEASURED FROM THE UPSTREAM MANHOLE
		N ARROW
		BUSH OR SHRUB #2
		HANDICAP

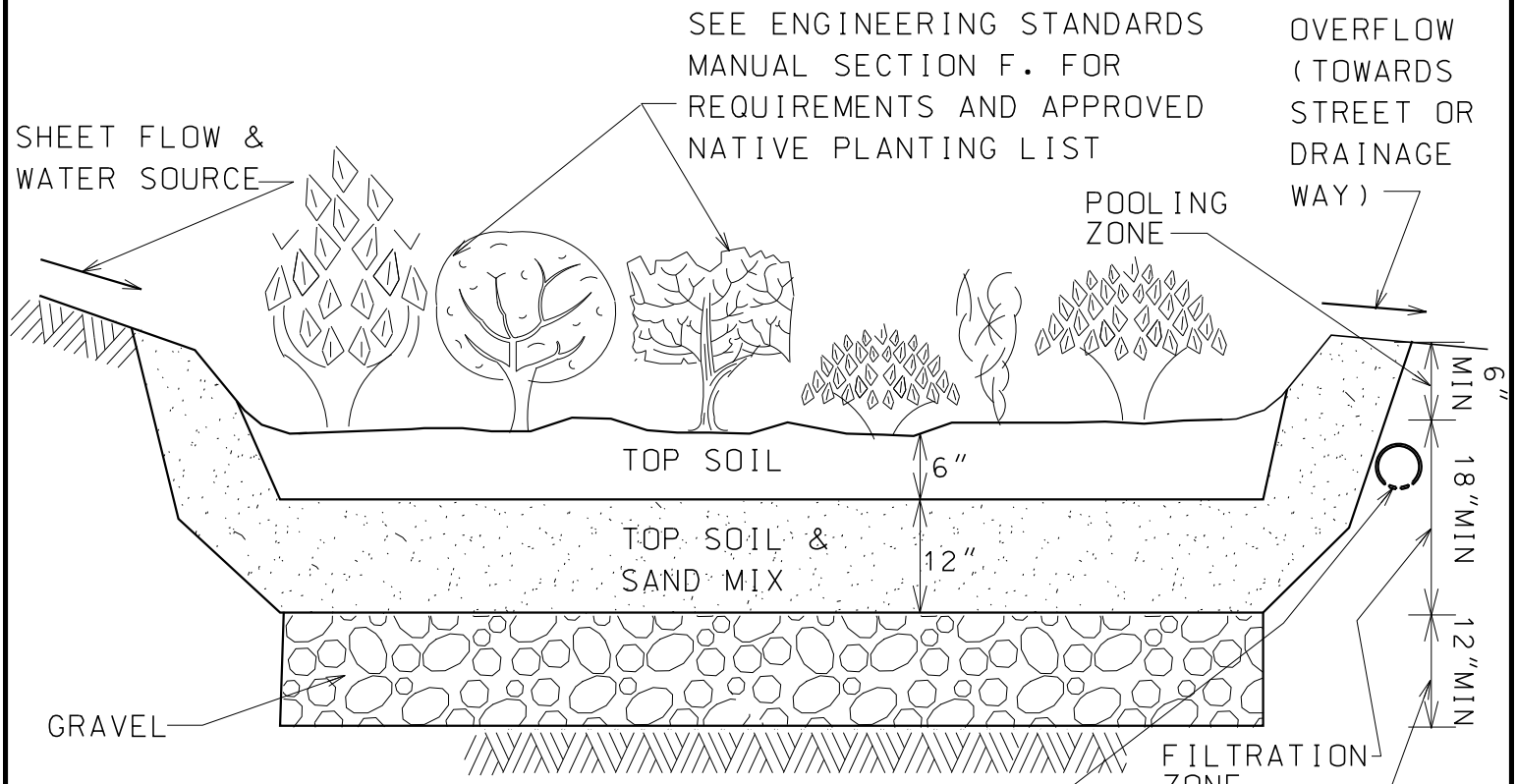
NOTE:
IDOT STANDARD 000001(LATEST EDITION) SHALL BE USED FOR STANDARD SYMBOLS & ABBREVIATIONS NOT INDICATED ON THIS SHEET

LEGEND & ABBREVIATIONS

REVISED: 3-15-22



PLAN VIEW

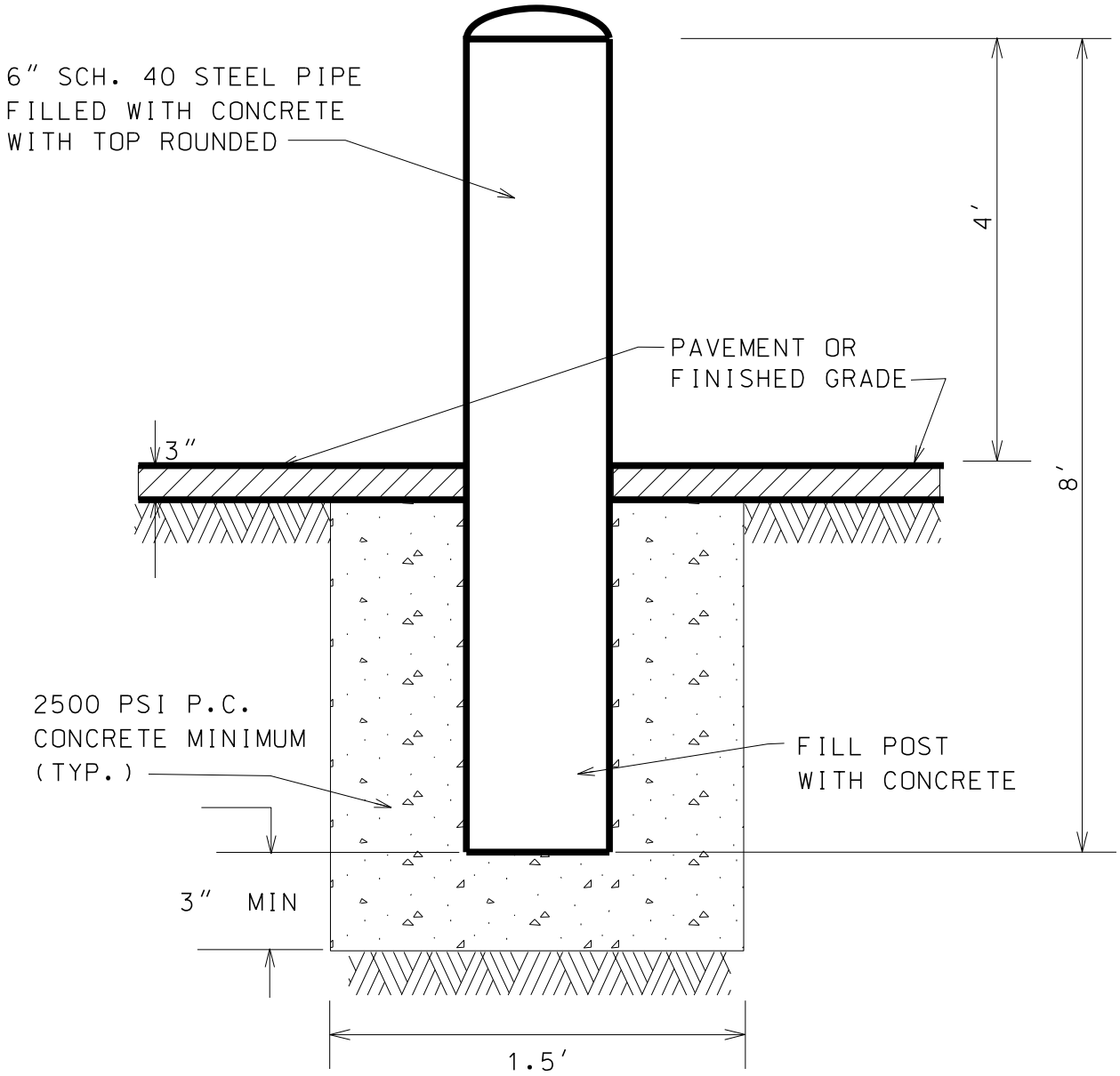


CROSS SECTION

NOT TO SCALE

RAIN GARDEN DETAIL

REVISED: 3-15-22

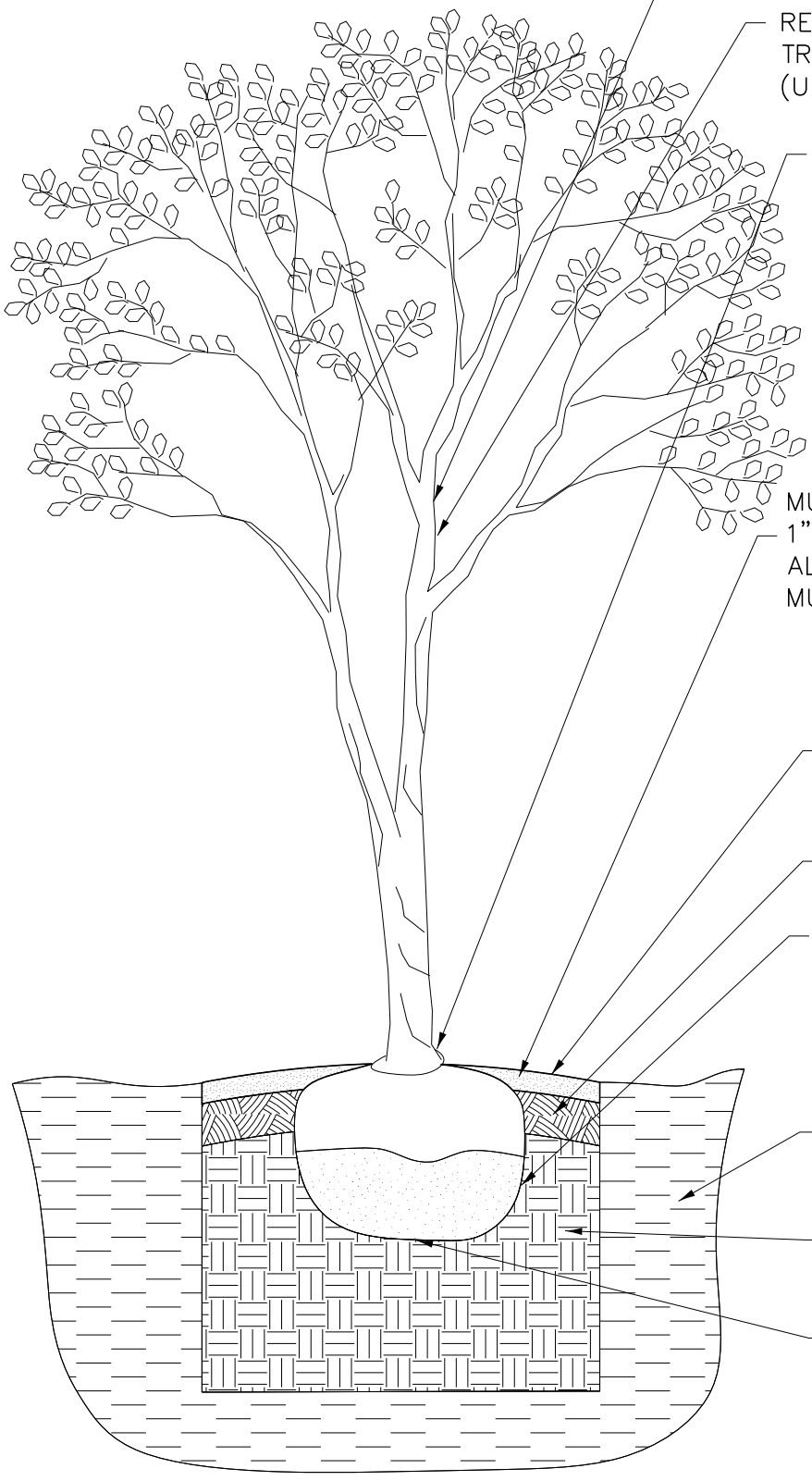


NOTE:

ALL PIPES SHALL BE PAINTED TRAFFIC YELLOW

REVISED: 3-15-22

PIPE BOLLARD DETAIL



PRUNE NON-ORNAMENTAL TREES IF NECESSARY ONLY TO ENCOURAGE CENTRAL LEADER. (DO NOT CUT LEADER ON EVERGREEN OR PYRAMIDAL TREES).

REMOVE ANY BROKEN BRANCHES, TREE TAGS, AND RIBBONS (UPON APPROVAL OF PLANT).

AVOID PLACING SOIL ON TOP OF THE ROOT BALL, MAINTAIN EXPOSURE OF ROOT FLARE. IF ROOT FLARE IS NOT EXPOSED, CAREFULLY REMOVE EXCESS SOIL. SET ROOT BALL SO THAT THE BASE OF ROOT FLARE IS 3"-6" HIGHER THAN ADJACENT FINISH GRADE (ROOT FLARE IS TYPICALLY 6" BELOW BUD GRAFT UNION ON GRAFTED TREES).

MULCH, 3" DEEP, TYP. TAPER MULCH TO 1" DEPTH CLOSER TO TRUNK. DO NOT ALLOW MULCH TO TOUCH TRUNK (OR) KEEP MULCH AT LEAST 2" AWAY FROM TRUNK

DISCARD EXCESS EXCAVATED MATERIAL

6" OF SOIL CONDITIONER

CUT AND REMOVE ALL CORDS AROUND ROOT BALL AND TRUNK. REMOVE WIRE BASKET, AND FOLD REMAINING POINTS DOWN. REMOVE TOP HALF OF BURLAP.

UNDISTURBED SOIL

TOPSOIL

SET ROOT BALL ON UNDISTURBED OR COMPACTED SUBGRADE. IF HOLE IS TOO DEEP, ADD AND COMPACT ADDITIONAL FILL BEFORE SETTING TREE. BACKFILL WITH TOPSOIL AS NEEDED.

NOT TO SCALE

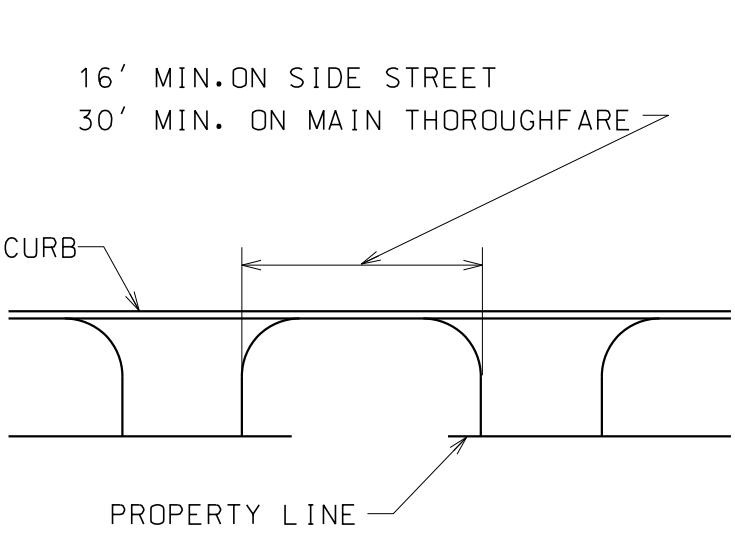
NOTES:

1. ABOVE NOTES MAY VARY BASED ON TREE SPECIES AND LOCATION.
2. ALL TREE SPECIES SELECTIONS AND LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE VILLAGE.

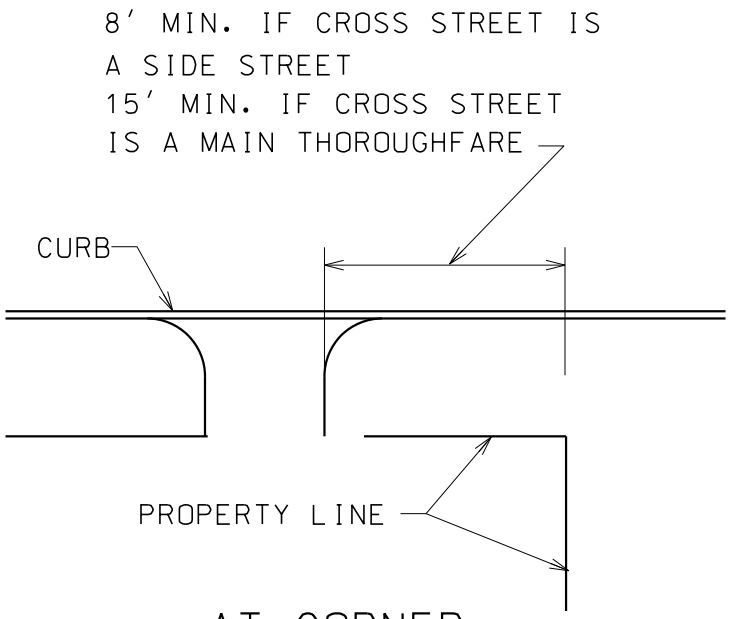
REVISED: 3-15-22

TREE PLANTING DETAIL

DRIVEWAY LOCATION AND SPACING



BETWEEN DRIVES



AT CORNER

CONCRETE DRIVEWAYS

APRON	8" PORTLAND CEMENT CONCRETE
	4" (MIN) IDOT CA 6 CRUSHED STONE
DRIVEWAY	6" PORTLAND CEMENT CONCRETE
	4" (MIN. IDOT CA 6 CRUSHED STONE

ASPHALT DRIVEWAYS

APPROACH	4" BITUMINOUS ASPHALT CONCRETE
	8" (MIN) IDOT CA 6 CRUSHED STONE
DRIVEWAY	4" BITUMINOUS ASPHALT CONCRETE
	6" (MIN) IDOT CA 6 CRUSHED STONE

DRIVEWAY WIDTHS

WIDTH OF DRIVEWAY	35' MAXIMUM
WIDTH OF FLARE	41' MAXIMUM AT CURB LINE

NUMBER OF ENTRANCES AND EXITS

THE VILLAGE RESERVES THE RIGHT TO ESTABLISH A MAXIMUM NUMBER OF EXIT AND ENTRANCE LANES BASED UPON THE PARKING CAPACITY AND TRAFFIC HAZARDS THEY CREATE IN THE PUBLIC STREETS.

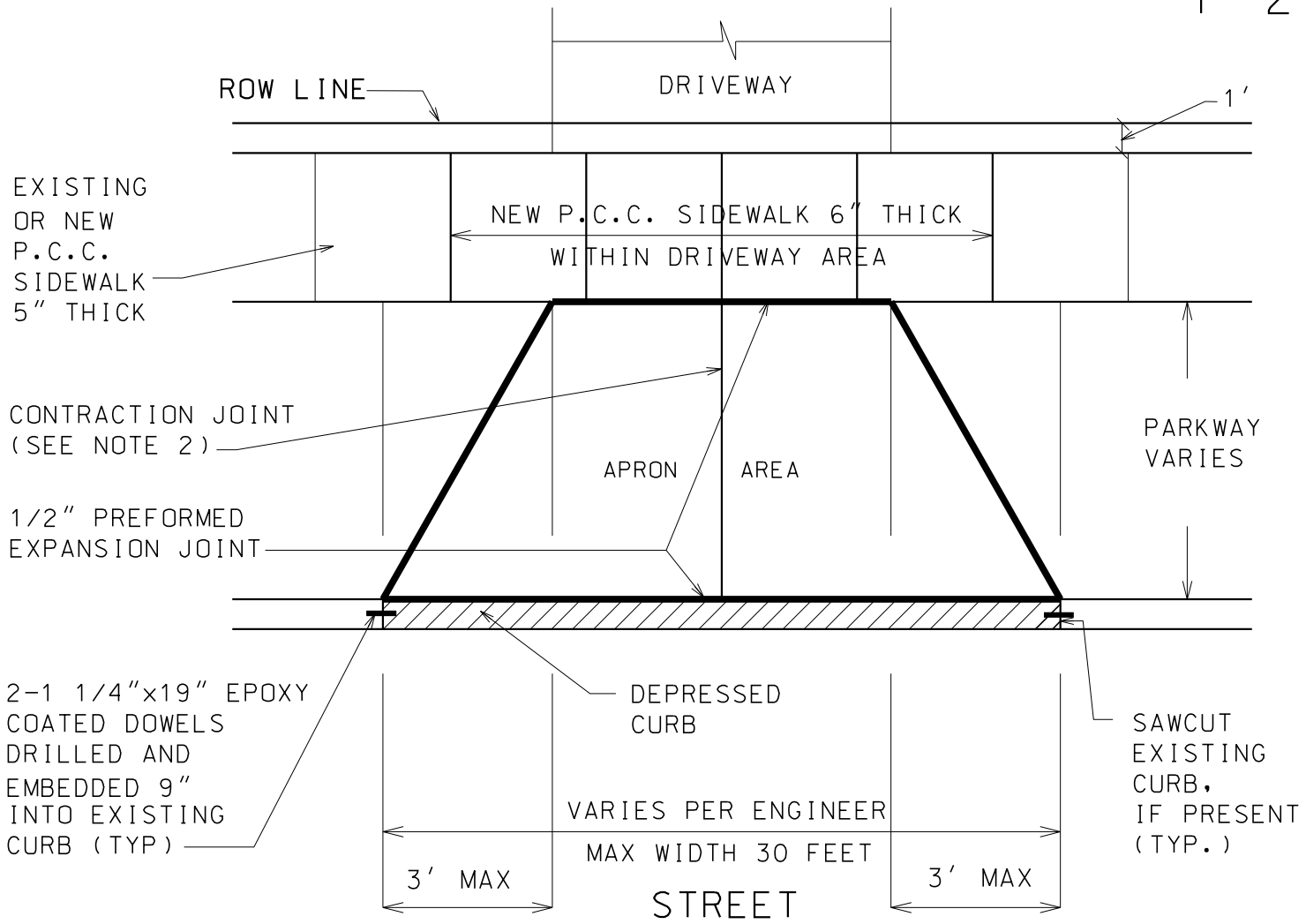
NOTE:

NO DRIVEWAY SHALL BE CONSTRUCTED SO AS TO GO THROUGH OR INTERFERE WITH EXISTING SIDEWALK.

NOT TO SCALE

REVISED: 3-15-22

COMMERCIAL DRIVEWAY DETAIL



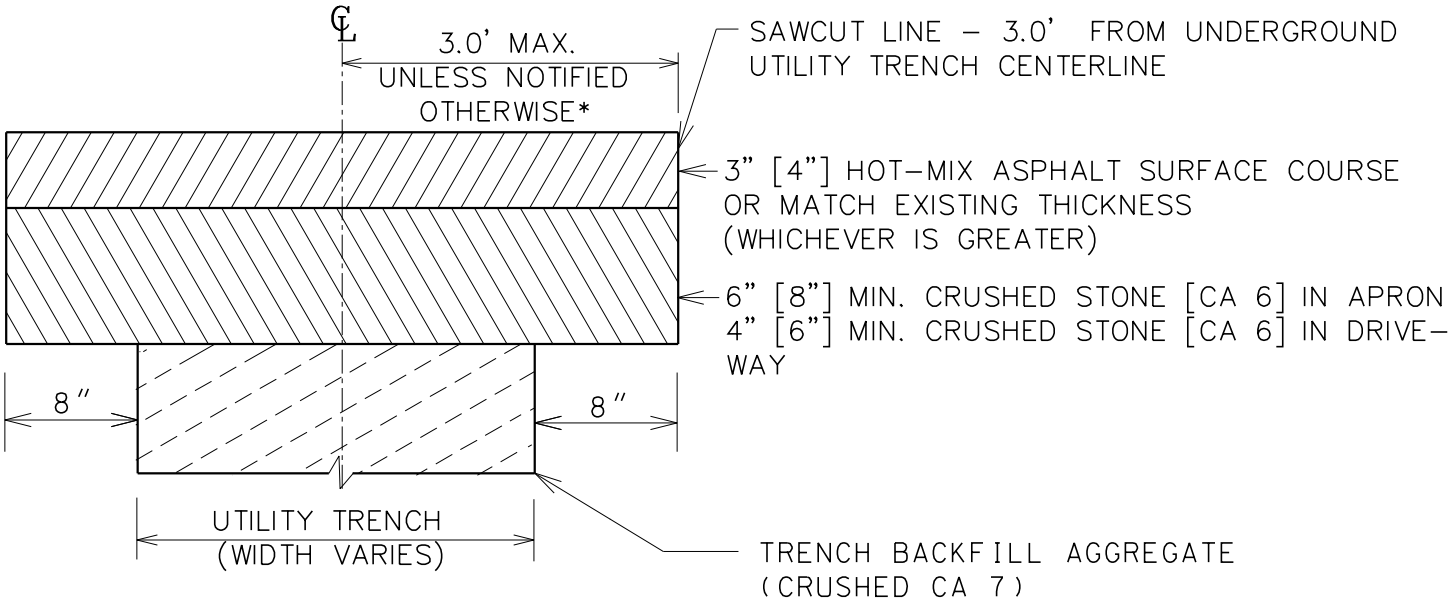
NOTES:

1. FOR P.C.C. DRIVEWAY OVER AN UNDERGROUND UTILITY TRENCH, PLACE 6' X 6' - W2.9XW2.9 WELD AND WIRE FABRIC AT MID-DEPTH OF THE CONCRETE.
2. FOR CONCRETE APRON WIDER THAN 16', A CONTRACTION JOINT SHALL BE LOCATED ALONG THE CENTERLINE.
3. P.C.C. CONCRETE DRIVEWAYS:
   APRON- 6" (MIN) PORTLAND CEMENT CONCRETE AND
   4" (MIN) IDOT CA 6 CRUSHED STONE
   DRIVEWAY- 4" (MIN) PORTLAND CEMENT CONCRETE AND
   4" (MIN) IDOT CA 6 CRUSHED STONE
4. BITUMINOUS DRIVEWAYS:
   APRON- 3" (MIN) BITUMINOUS CONCRETE SURFACE COURSE AND
   6" (MIN) IDOT CA 6 CRUSHED STONE
   DRIVEWAY- 3" (MIN) BITUMINOUS CONCRETE SURFACE COURSE AND
   4" (MIN) IDOT CA 6 CRUSHED STONE
5. BRICK PAVERS AND OTHER ARCHITECTURAL PAVING MATERIALS ARE NOT ALLOWED IN A DRIVEWAY APRON AREA WITHOUT A BUILDING PERMIT AND WRITTEN PERMISSION - INCLUDING A HOLD HARMLESS AGREEMENT (APPROVED BY VILLAGE ENGINEERING).
6. MAINTAIN FULL SIDEWALK WIDTH THROUGH DRIVEWAYS UNLESS DIRECTED OTHERWISE BY VILLAGE ENGINEERING. CURBING SHALL NOT RUN THROUGH SIDEWALK AREAS IN DRIVEWAYS.
7. ALL DRIVEWAYS AND APRONS SHALL BE INSTALLED AT THE MINIMUM DEPTH SPECIFIED IN NOTE 3 OR 4 ABOVE OR MATCH EXISTING, WHICHEVER IS GREATER.

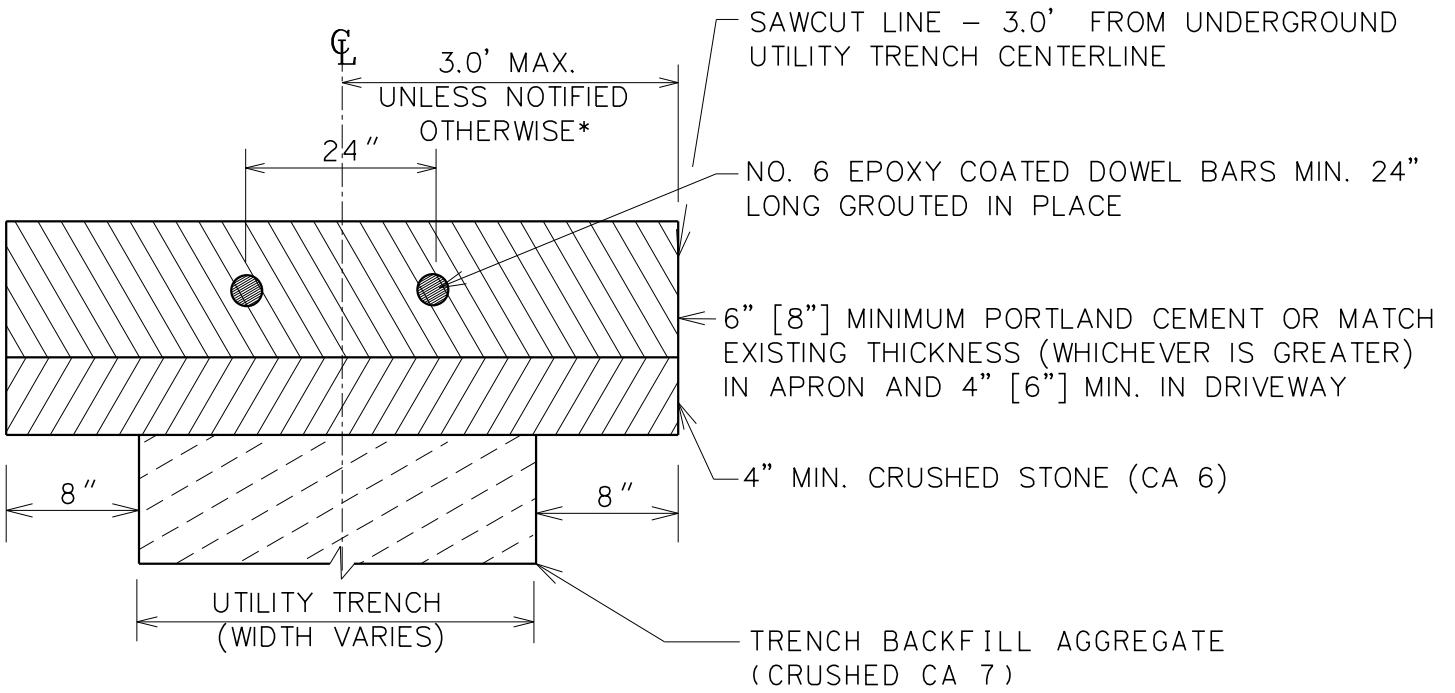
NOT TO SCALE
REVISED: 3-15-22

RESIDENTIAL DRIVEWAY DETAIL

A. ASPHALT DRIVEWAY - RESIDENTIAL [COMMERCIAL]



B. CONCRETE DRIVEWAY - RESIDENTIAL [COMMERCIAL]



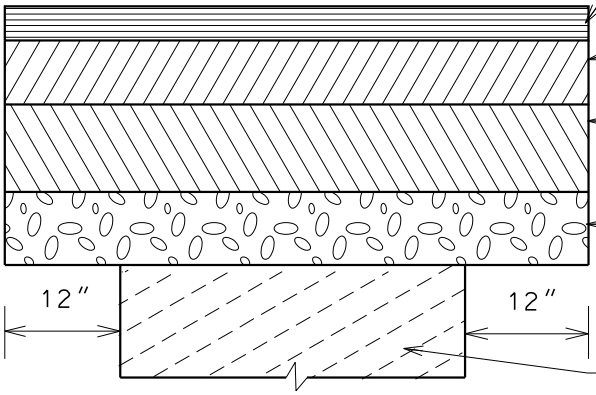
NOT TO SCALE

* UNLESS APPROVED OTHERVISE BY VILLAGE ENGINEERING.

REVISED: 3-15-22

DRIVEWAY REPLACEMENT DETAIL

A. FLEXIBLE PAVEMENT



1½" (MIN) HOT-MIX ASPHALT SURFACE COURSE (PLACED ON SECOND DAY, OR AS DIRECTED BY VILLAGE ENGINEERING)

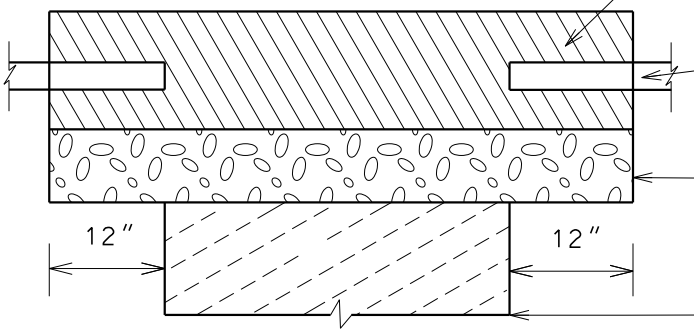
3" (MIN) HOT-MIX ASPHALT BINDER COURSE LIFT (SEE NOTE #3)

4"(MIN) HOT-MIX ASPHALT BINDER COURSE LIFT (SEE NOTE #3)

4" (MIN) SUBBASE GRANULAR MATERIAL (CA 6)

SEE DETAIL U-25

B. RIGID PAVEMENT



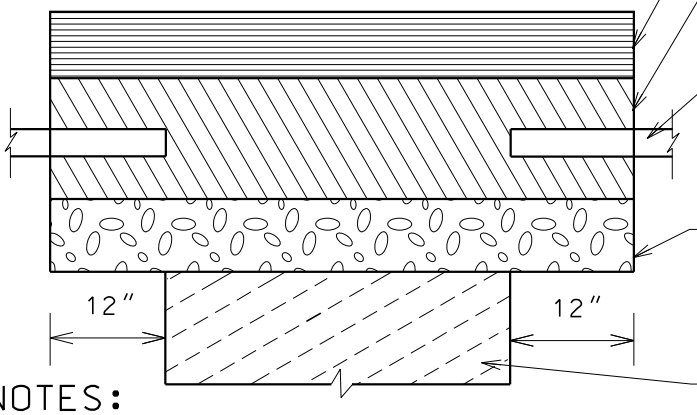
6" (MIN) PORTLAND CEMENT CONCRETE OR MATCH EXIST. THICKNESS, WHICHEVER IS GREATER

No.6 EPOXY COATED DOWEL BARS, MIN. 24" LONG GROUTED IN PLACE AT 24" C.C.

4" (MIN) SUBBASE GRANULAR MATERIAL (CA 6)

SEE DETAIL U-25

C. COMPOSITE PAVEMENT



2½" (MIN) HOT-MIX ASPHALT SURFACE COURSE

6" (MIN) PORTLAND CEMENT CONCRETE OR MATCH EXIST. THICKNESS, WHICHEVER IS GREATER

No.6 EPOXY COATED DOWEL BARS, MIN. 24" LONG GROUTED IN PLACE AT 24" C.C.

4" (MIN) SUBBASE GRANULAR MATERIAL (CA-6)

SEE DETAIL U-25

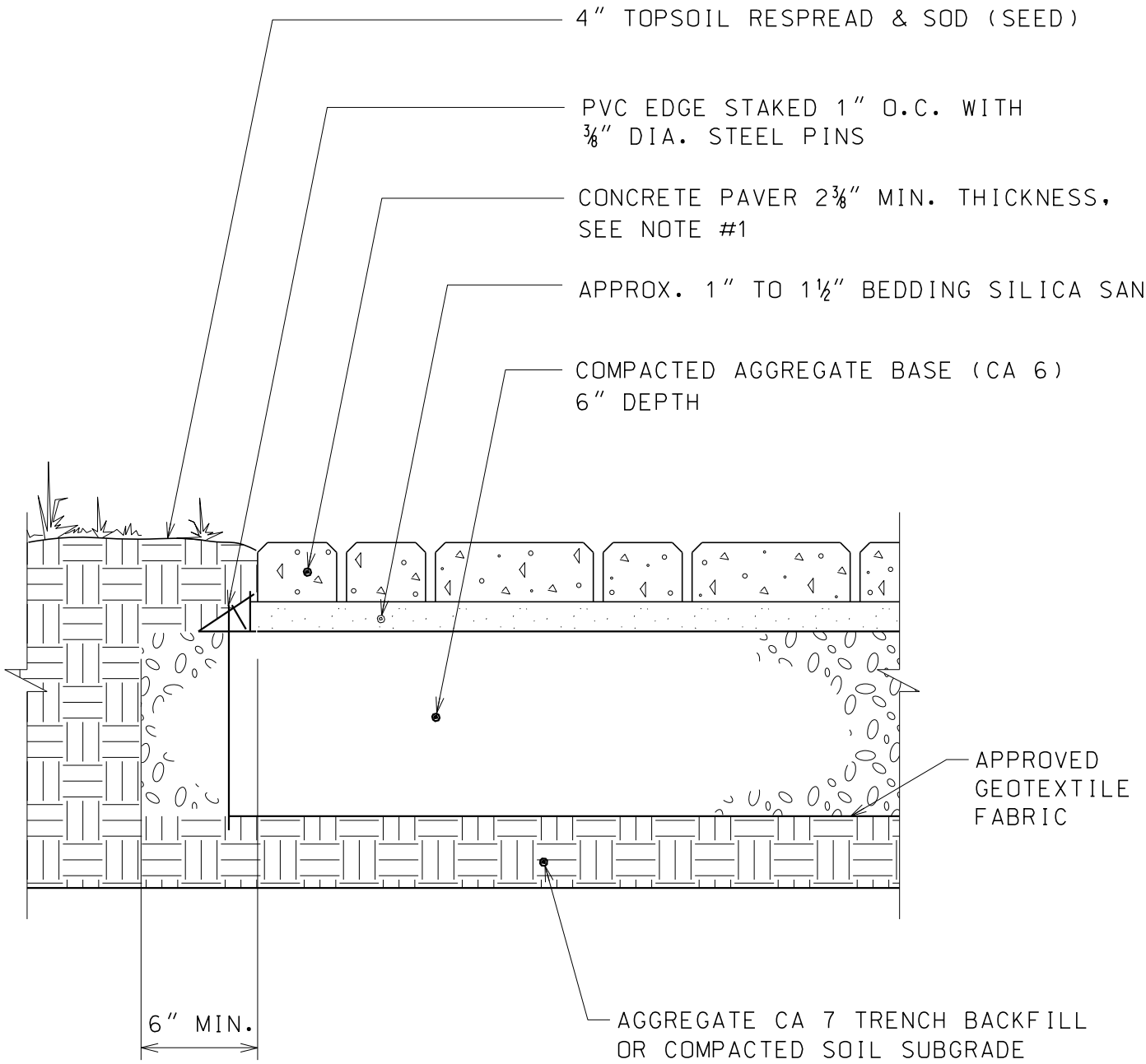
NOTES:

1. ALL PAVEMENT PATCHES SHALL BE SAWCUT FULL-DEPTH A MINIMUM OF ONE FOOT BEYOND THE LIMITS OF PAVEMENT REMOVAL IN ALL DIRECTIONS.
2. PORTLAND CEMENT CONCRETE SHALL CONFORM TO IDOT CLASS PP MIN. 3,200 PSI AT 48 HOURS, WITH 4% TO 7% AIR ENTRAINMENT.
3. 7" (MIN) BINDER TOTAL OR MATCH EXISTING THICKNESS, WHICHEVER IS GREATER.

NOT TO SCALE

REVISED: 3-15-22

PAVEMENT PATCH DETAIL



NOTES:

1. PAVER EDGE RESTRAINT TYPE AND METHOD OF INSTALLATION SHALL CONFORM WITH PAVER MANUFACTURER RECOMMENDATIONS.

2. EXISTING PAVERS TO BE REUSED WHEN CONSTRUCTION WORK IS PERFORMED IN AREAS WITH EXISTING PAVERS.

3. CRUSHED AGGREGATE CA 7 SHALL BE USED IN ALL AREAS WHERE UTILITY WORK IS PERFORMED UNDER EXISTING DRIVEWAYS.

4. PAVERS SHALL NOT BE USED IN PUBLIC STREETS.

5. A HOLD HARMLESS AGREEMENT SHALL BE REQUIRED IN ADVANCE OF CONSTRUCTION FOR ANY PAVER INSTALLATION WITHIN THE VILLAGE RIGHT-OF-WAY.

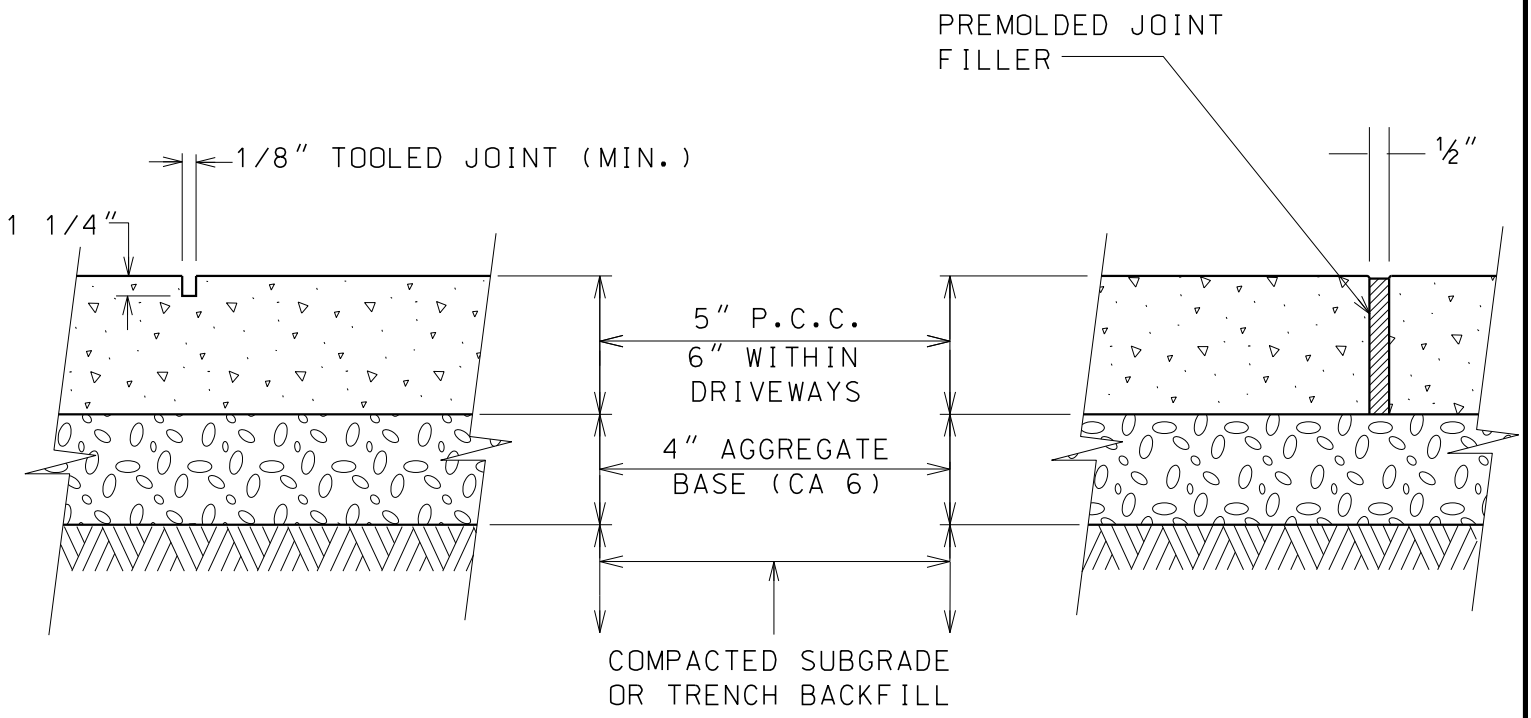
NOT TO SCALE

PAVER INSTALLATION DETAIL

REVISED: 3-15-22

CONTRACTION JOINT DETAIL

EXPANSION JOINT DETAIL



NOTES:

1. UNLESS OTHERWISE NOTED ON PLANS, CONTRACTION JOINTS TO BE AT 5'-0" O.C.

2. EXPANSION JOINTS TO BE 50'-0" O.C. MAX. OR AT BACK OF CURB, CHANGE OF DIRECTION, OTHER WALK, UTILITY APPURTENANCE, OR FACE OF STRUCTURE.

3. PORTLAND CEMENT CONCRETE SHALL CONFORM TO IDOT CLASS SI, MIN. 3,500 PSI AT 14 DAYS, WITH 5% TO 8% AIR ENTRAINMENT.

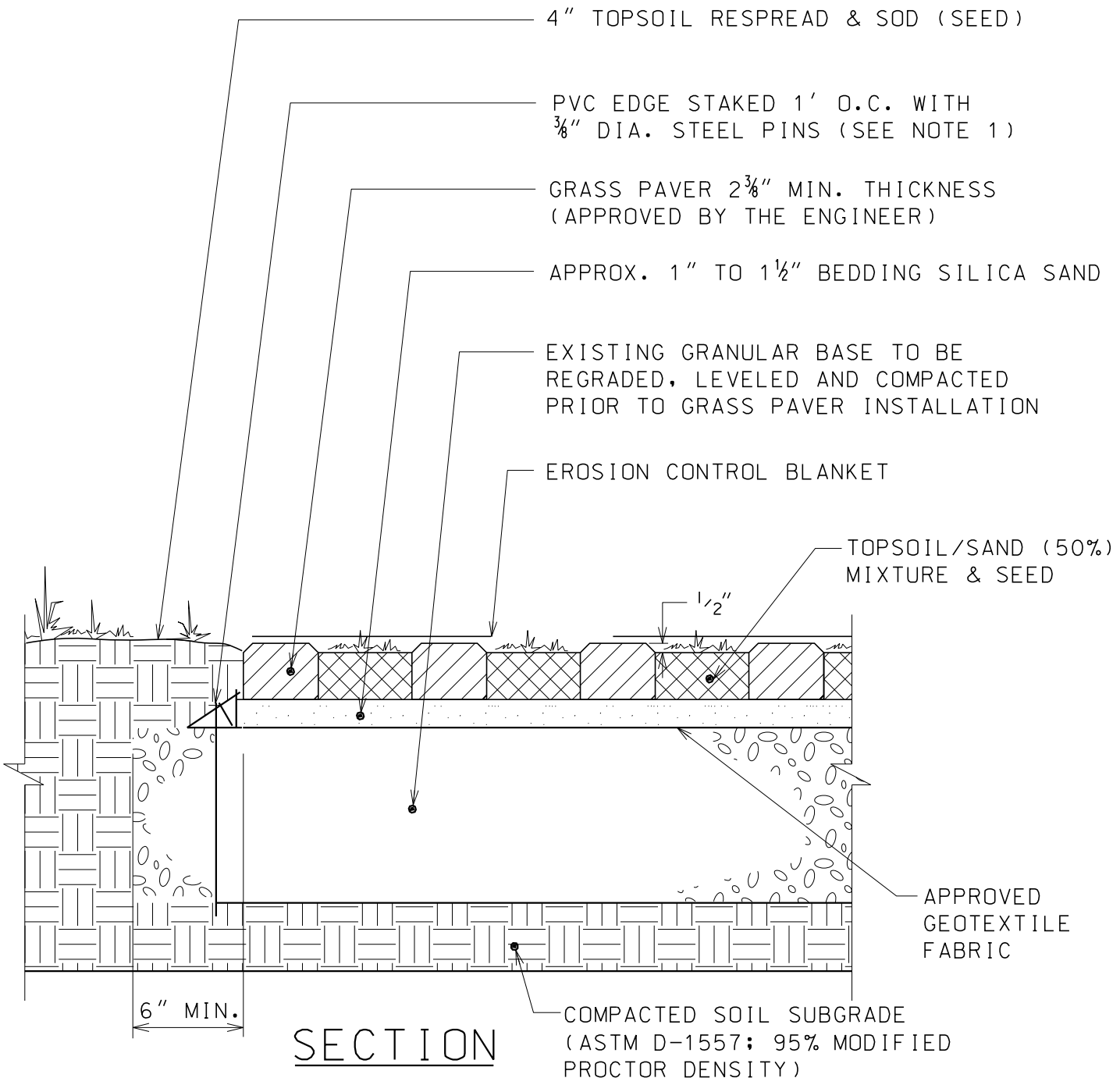
4. PROVIDE A BROOM FINISH FOR CONCRETE SURFACES.

5. REPLACEMENT IS REQUIRED TO THE NEAREST JOINT.

NOT TO SCALE

REVISED: 3-15-22

CONCRETE SIDEWALK DETAIL



SECTION

NOTES:

1. PAVER EDGE RESTRAINT TYPE AND METHOD OF INSTALLATION SHALL CONFORM WITH PAVER MANUFACTURER RECOMMENDATIONS.

2. EXISTING PAVERS TO BE REUSED WHEN CONSTRUCTION WORK IS PERFORMED IN AREAS WITH EXISTING PAVERS.

3. CRUSHED AGGREGATE CA 7 SHALL BE USED IN ALL AREAS WHERE UTILITY WORK IS PERFORMED UNDER EXISTING DRIVEWAYS.

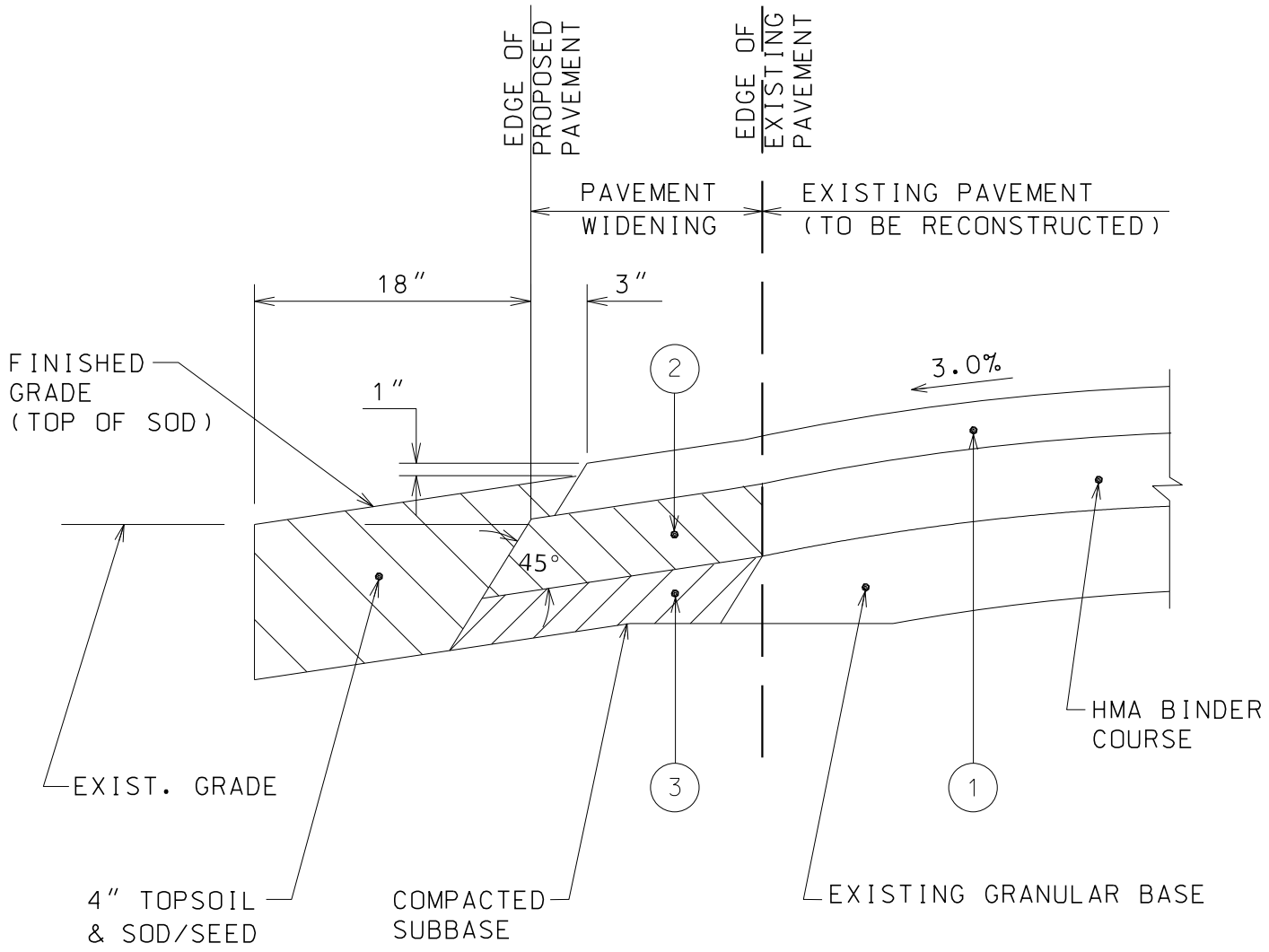
4. PAVERS SHALL NOT BE USED IN PUBLIC STREETS.

5. A HOLD HARMLESS AGREEMENT SHALL BE REQUIRED IN ADVANCE OF CONSTRUCTION FOR ANY PAVER INSTALLATION WITHIN THE VILLAGE RIGHT-OF-WAY.

NOT TO SCALE

REVISED: 3-15-22

GRASS PAVER INSTALLATION DETAIL



SECTION

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

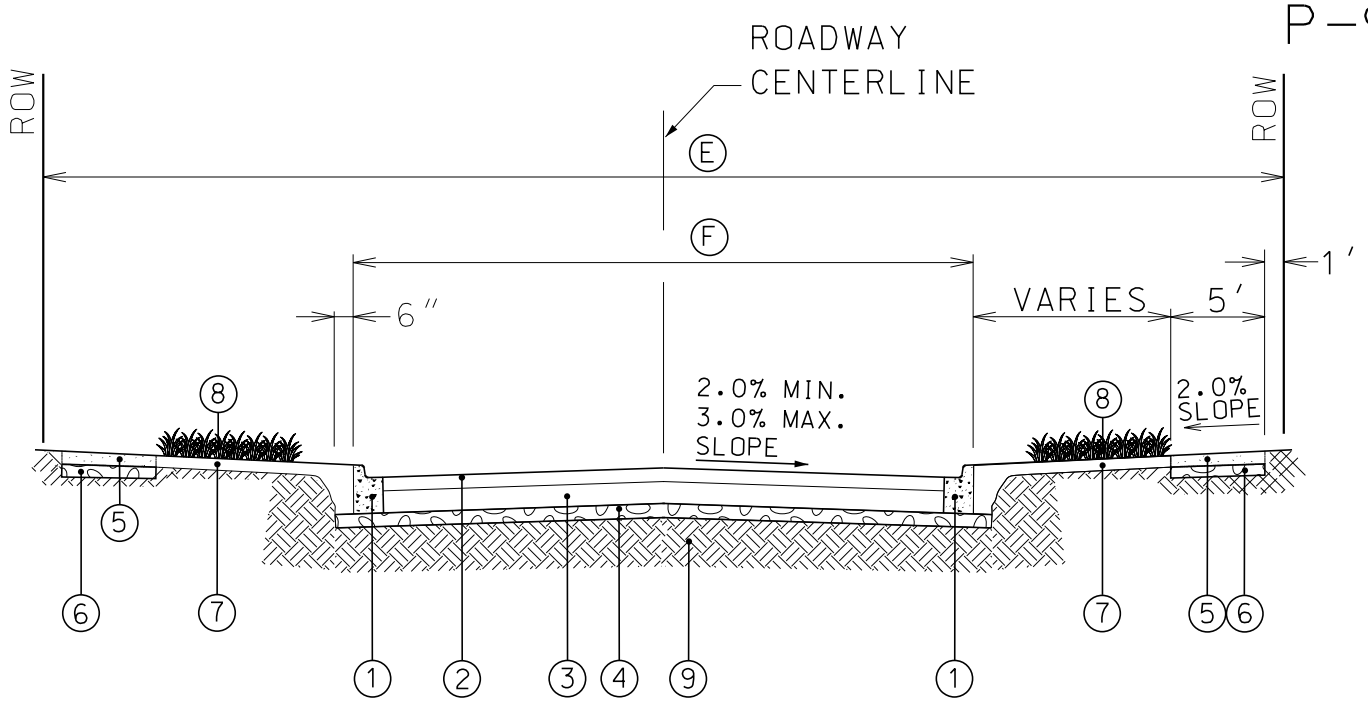
NO.	ITEM	AC TYPE	PERCENT AIR VOIDS	MIX TYPE	MAX RAP %	UNIT WEIGHT LBS/SQ YD/IN
1	2.0" HOT-MIX ASPHALT SURFACE COURSE MIX "D", N50	PG 64-22	4% @ 50 Gyr.	IL 9.5 mm	15	112
2	4.0" MIN. (OR MATCH EXISTING) HOT-MIX ASPHALT BINDER COURSE IL-19.0, N50*	PG 64-22	4% @ 50 Gyr.		30*	112
3	4.0" TYPE B AGGREGATE (CA 6) BASE					

* CONTRACTOR OPTION: WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

NOT TO SCALE

REVISED: 3-15-22

PAVEMENT WIDENING DETAIL



1. (A) CURB AND GUTTER, SEE DETAIL C-2 OR C-3.
2. (B) HOT ASPHALT SURFACE COURSE (SN = 0.40/INCH). MAXIMUM LIFT THICKNESS OF 3 INCHES (MIN. 1.5 INCHES).
3. (C) HOT ASPHALT BINDER COURSE (SN = 0.33/INCH). PLACED IN MULTIPLE LIFTS WITH MAXIMUM LIFT THICKNESS OF 4 INCHES (MIN 2.5 INCHES).
4. (D) THICK HOT AGG BASE COURSE (CRUSHED), TYPE B (SN = 0.13/INCH). MILLED ASPHALT MEETING AGG SUBGRADE SPECS CANNOT BE USED FOR SUBASE GRANULAR MATERIAL.
5. 5.0″ MIN. THICK PCC SIDEWALK. SEE DETAIL P-6.
6. 3.0″ MIN. THICK COMPACTED AGG BASE (CA-6). NO MILLED ASPHALT SHALL BE USED FOR BASE MATERIAL.
7. 4.0″ MIN. THICKNESS (UNDER SOD) PULVERISED TOPSOIL.
8. SALT TOLERANT SOD.
9. SUBGRADE.

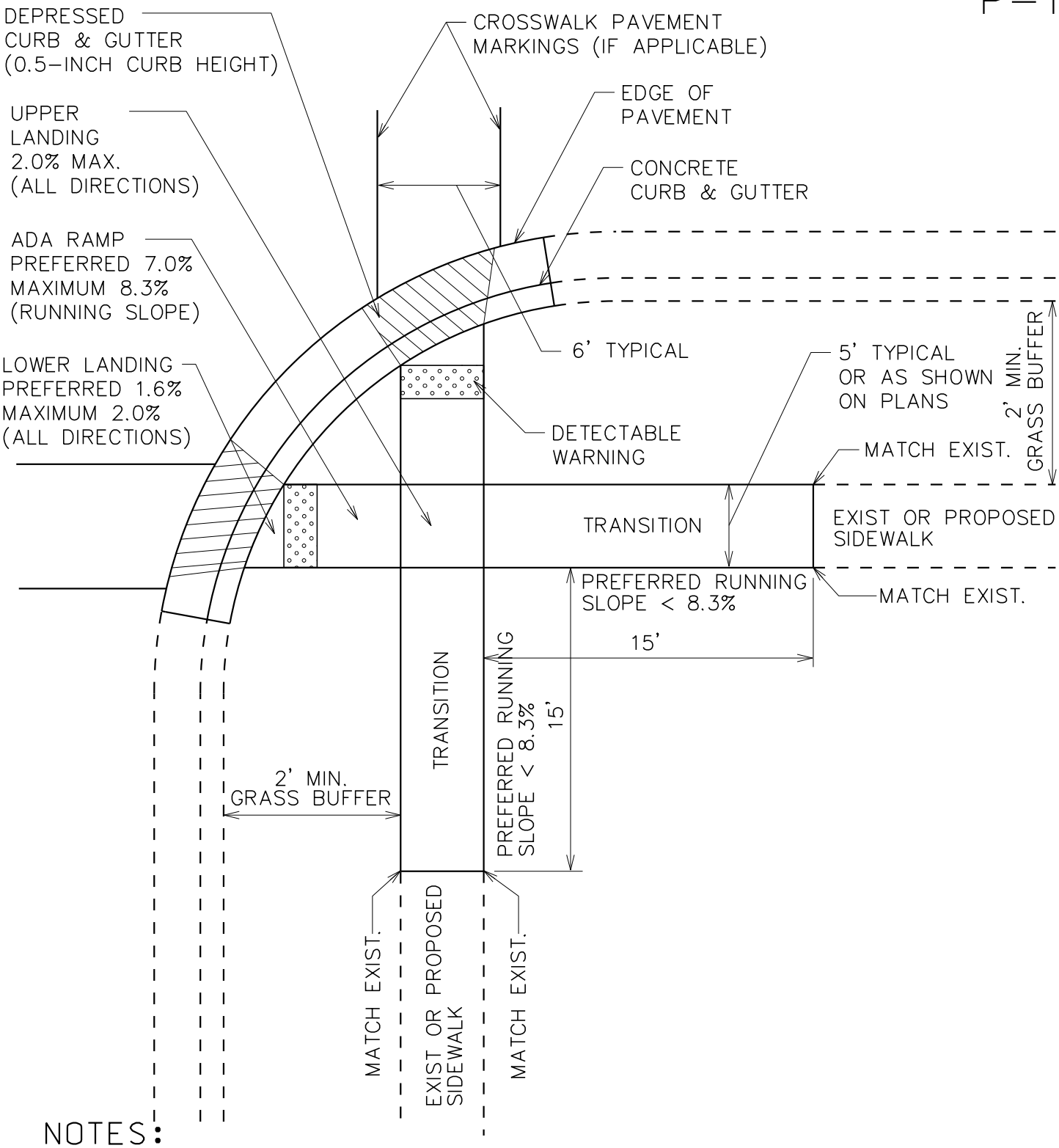
	SINGLE-FAMILY RESIDENTIAL DEVELOPMENT WITHIN VILLAGE LOCAL ROAD	MULTI-FAMILY RESIDENTIAL DEVELOPMENT LOCAL ROAD	BUSINESS AND INDUSTRIAL DEVELOPMENT LOCAL ROAD
(A) CURB & GUTTER	M-3.12	M-3.12	B-6.12
(B) SURFACE THICKNESS	1.5″ MIN.	1.5″ MIN.	1.5″ MIN.
(C) BINDER THICKNESS	7.5″ MIN.	7.5″ MIN.	10.5″ MIN.
(D) AGG BSE CSE THICKNESS	4.0″ MIN.	4.0″ MIN.	4.0″ MIN.
(E) ROW WIDTH	60′ MIN.	70′ MIN.	80′ MIN.
(F) STREET WIDTH (BACK TO BACK)	26′ MIN.	36′ MIN.	42′ MIN.
STRUCTURAL NUMBER (SN)	3.60 MIN.	3.60 MIN.	4.60 MIN.

NOT TO SCALE
REVISED: 3-15-22

NOTES:

- SEE STANDARDS SECTION G (STREETS AND OTHER SITE IMPROVEMENTS) FOR ADDITIONAL REQUIREMENTS.
- TOTAL PAVEMENT SECTION COMPOSITION SHALL EQUAL OR EXCEED REQUIRED STRUCTURAL NUMBER (SN).

ROAD CROSS SECTION DETAIL



NOTES:

1. ALL CROSS SLOPES ARE 1.6% PREFERRED AND 2.0% MAXIMUM.

2. DETECTABLE WARNINGS SHOULD EXTEND THE FULL WIDTH OF ADA RAMP BUT A BORDER ALONG EACH SIDE UP TO 2 INCHES IS ALLOWED.

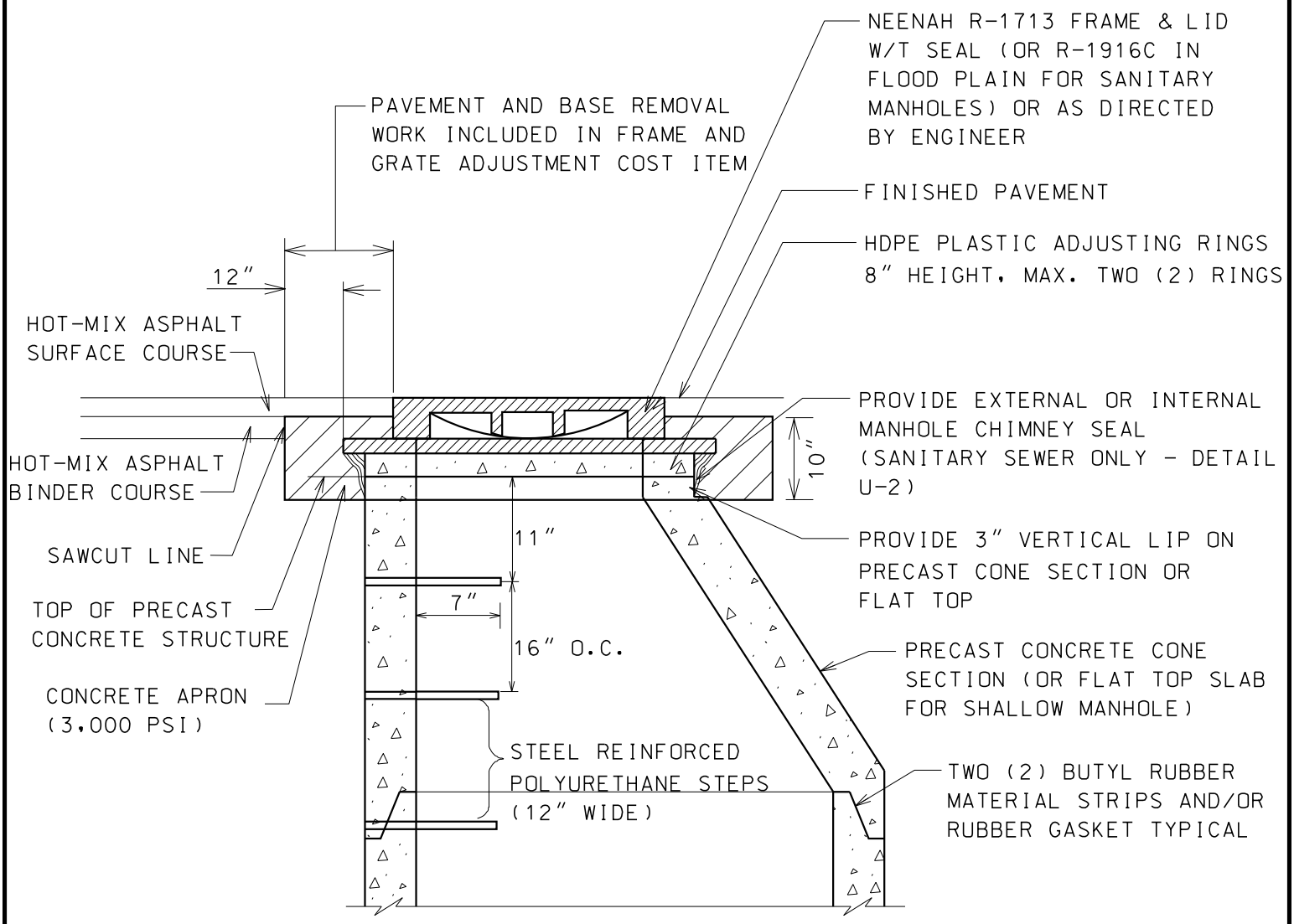
3. SEE IDOT HIGHWAY STANDARD 424001 FOR MORE INFORMATION ON PERPENDICULAR CURB RAMPS.

4. FOR DIAGONAL, CORNER PARALLEL, MID-BLOCK, OR DEPRESSED CORNER RAMPS SEE IDOT HIGHWAY STANDARD 424006, 424011, 424016, 424021, RESPECTIVELY.

REVISED: 3-15-22

NOT TO SCALE

ADA SIDEWALK RAMP DETAIL



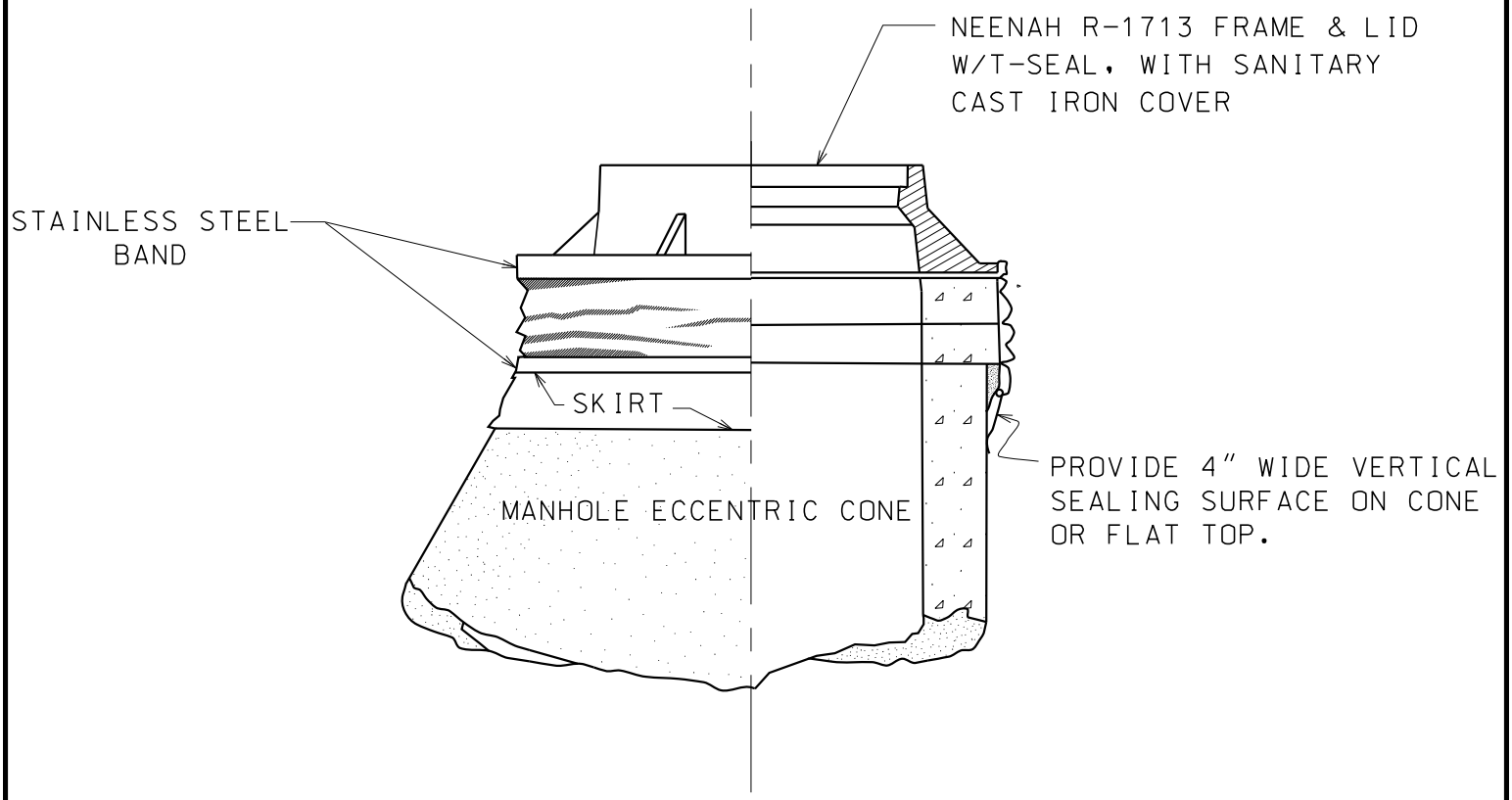
NOTES:

1. UTILITY STRUCTURE FRAME AND LID OR GRATE ADJUSTMENTS, INCLUDING POURING OF CONCRETE APRON, SHALL BE PERFORMED BY THE CONTRACTOR BEFORE PLACING HOT-MIX ASPHALT SURFACE COURSE.
2. PRECAST CONCRETE ADJUSTING RINGS SHALL BE USED IN PARKWAYS.
3. HIGH DENSITY POLYETHYLENE (HDPE) PLASTIC ADJUSTING RINGS SHALL BE USED IN PAVED AREAS.
4. CASTINGS (FRAMES) OR CONCRETE ADJUSTING RINGS PLACED ON CONCRETE CONE OR TOP SLAB SHALL BE SET IN FULL MORTAR BEDS.
5. APPLY APPROVED SEALING BUTYL RUBBER MATERIAL OR RUBBER GASKETS BETWEEN CONCRETE CONE OR TOP SLAB AND PLASTIC ADJUSTING RING, ADJUSTING RINGS, AND BETWEEN ADJUSTING RING AND FRAME.

NOT TO SCALE

STRUCTURE FRAME & LID ADJUSTMENT DETAIL

REVISED: 3-15-22



INTERNAL CHIMNEY SEALS TO SPAN CHIMNEY HEIGHTS OF:	
0 – 4½"	CHIMNEY SEAL ONLY
4½" TO 9"	SEAL + 7" EXTENSION
9" TO 12"	SEAL + 10" EXTENSION
OVER 12"	SEAL + MULTI. EXTENSIONS

EXTERNAL CHIMNEY SEALS TO SPAN CHIMNEY HEIGHTS OF:	
0 – 3"	NARROW (6") SEAL ONLY
3 TO 6½"	STANDARD (9") SEAL ONLY
6½" TO 12"	STD. SEAL + EXTENSION
OVER 12"	SEAL + MULTI. EXTENSIONS

NOTE:

1. CHIMNEY SEALS SHALL BE INSTALLED ON ALL SANITARY SEWER

2. "CRETEX" EXTERNAL/INTERNAL SEALS ARE REQUIRED. OTHER PRODUCTS OR OTHER DESIGN SOLUTIONS SHALL REQUIRE VILLAGE AND ENGINEER APPROVAL.

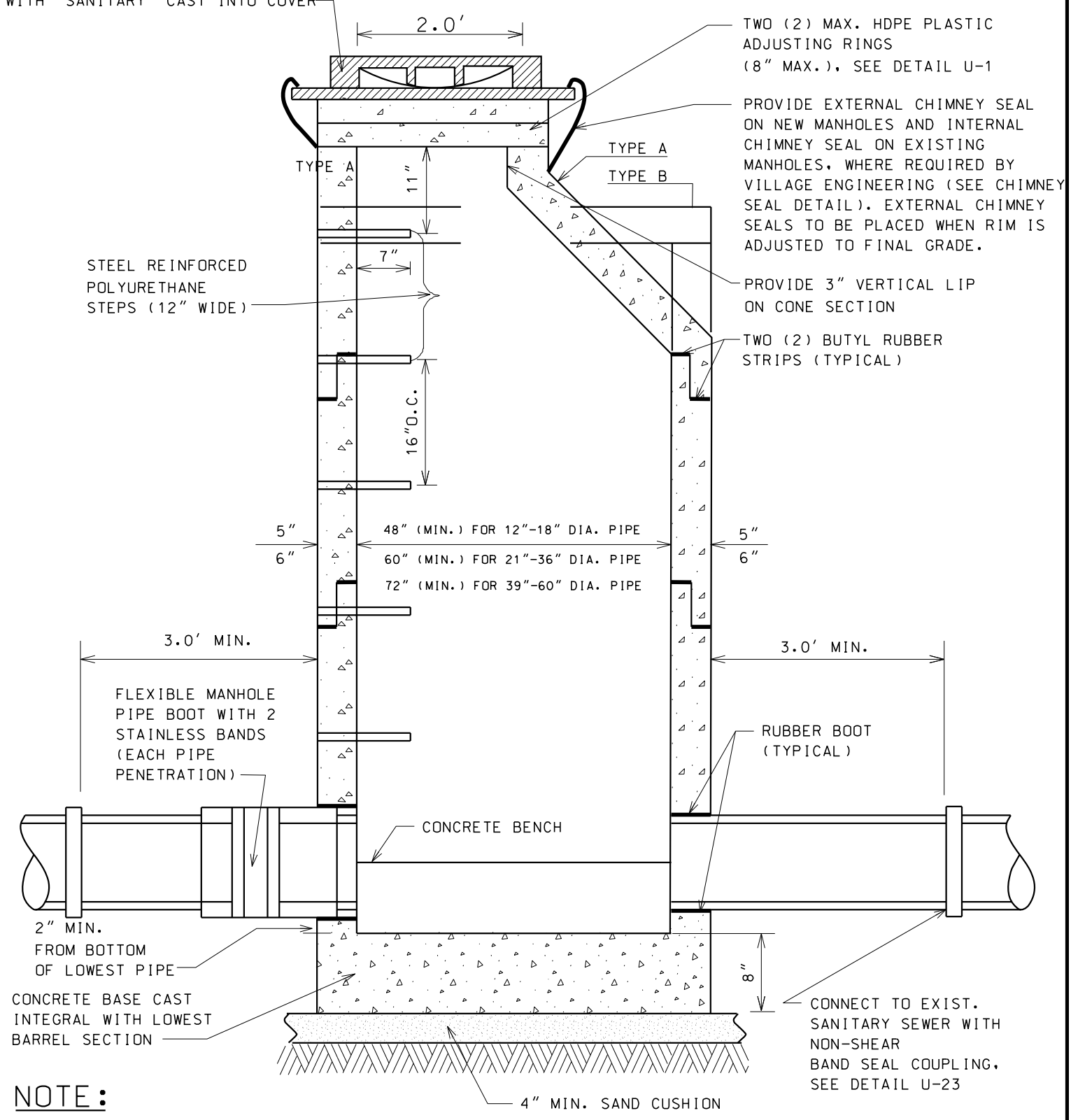
3. IF INTERNAL SEALS ARE USED, THE STRUCTURE, INCLUDING ADJUSTMENT RINGS, MUST BE INSPECTED BY VILLAGE

4. CHIMNEY SEALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

NOT TO SCALE

REVISED: 3-15-22

CHIMNEY SEAL DETAIL



NOTE:

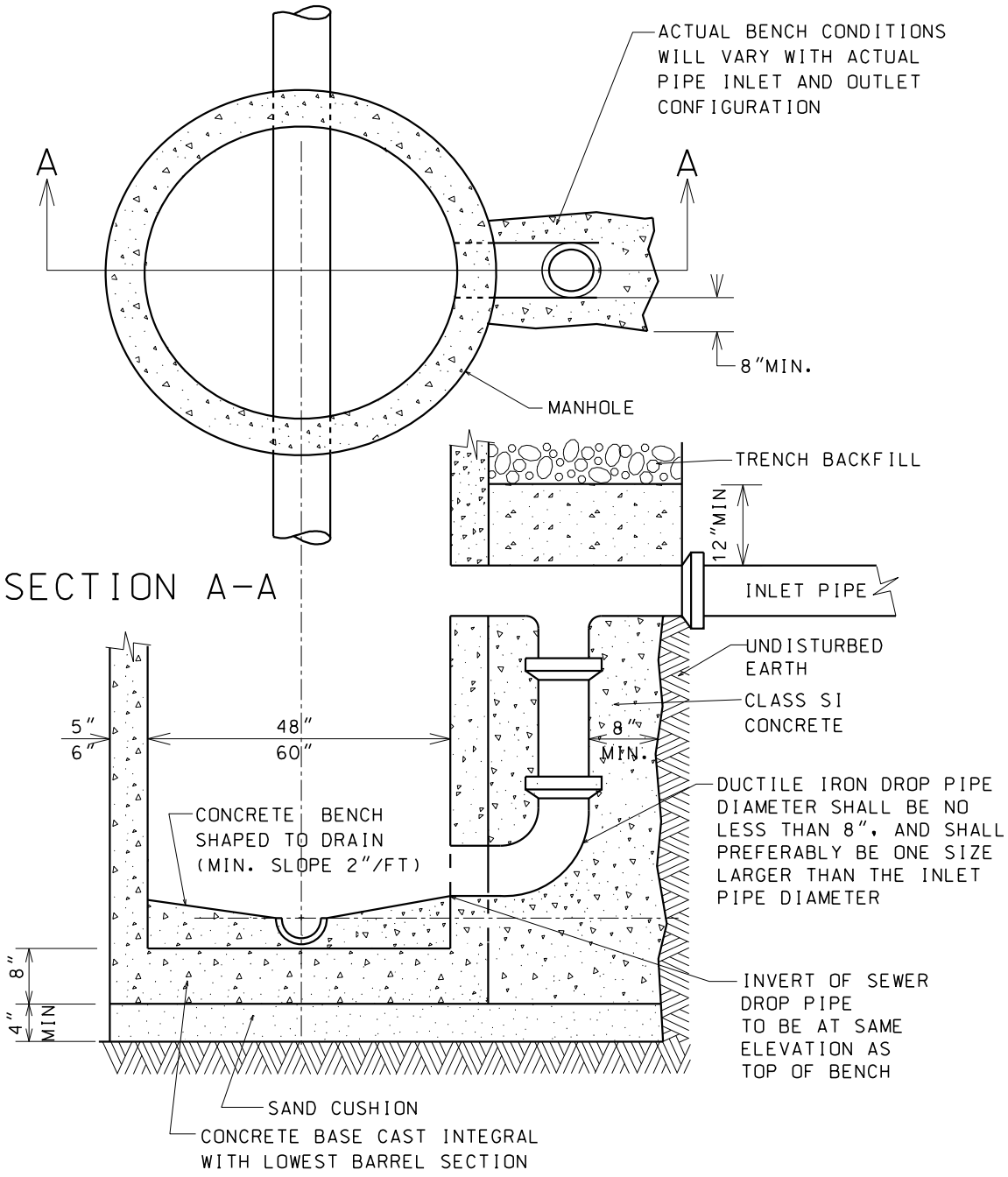
1. MANHOLES MUST CONFORM TO ASTM C-478.
2. MANHOLE SECTIONS TO BE TONGUE AND GROOVED.
3. BENCHES MUST BE PROVIDED IN ALL SANITARY SEWER MANHOLES
4. USE EXTERNAL LIFTING "HOLES" ONLY, BUT NOT FULL PENETRATION.
5. ALL PIPE PENETRATIONS AND ALL NON-PRECAST OPENINGS SHALL BE CORED, RUBBER BOOTED AND INTERIOR MORTARED AROUND PIPE.*
6. USE ECCENTRIC CONE ONLY.

* SEE PIPE CONNECTION TO STRUCTURE DETAIL U-5.

NOT TO SCALE

REVISED: 3-15-22

SANITARY MANHOLE DETAIL



NOTE:

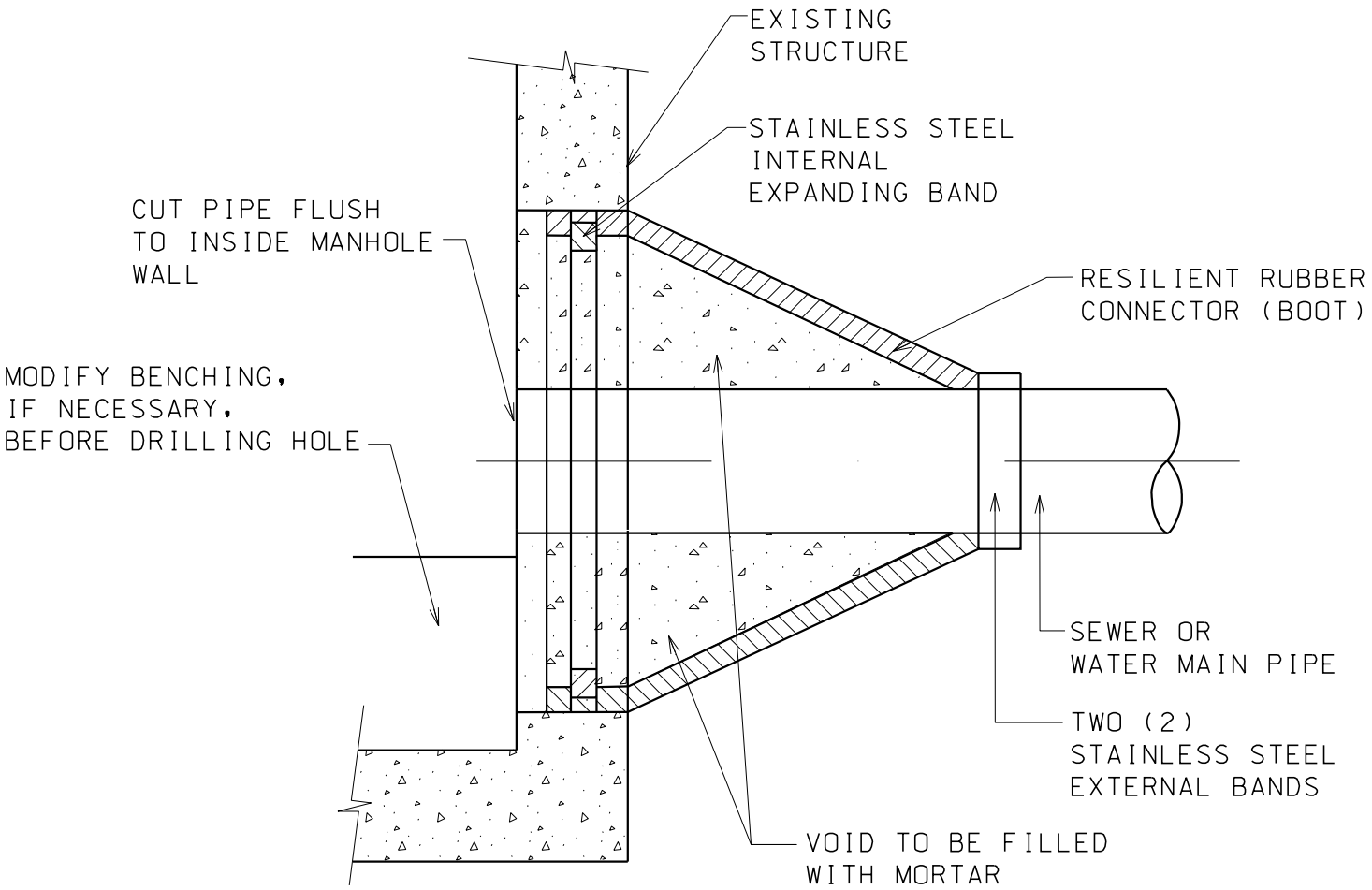
1. DROP MANHOLE WILL BE REQUIRED WHERE DIFFERENCE BETWEEN INVERT ELEVATION OF INLET AND DOWNSTREAM PIPE IS GREATER THAN 12".
2. NON-PRECAST OPENINGS SHALL BE CORED, RUBBER BOOTED AND INTERIOR MORTARED AROUND PIPE.*

* SEE PIPE CONNECTION TO STRUCTURE DETAIL U-5.

NOT TO SCALE

DROP MANHOLE DETAIL

REVISED:3-15-22



SECTION

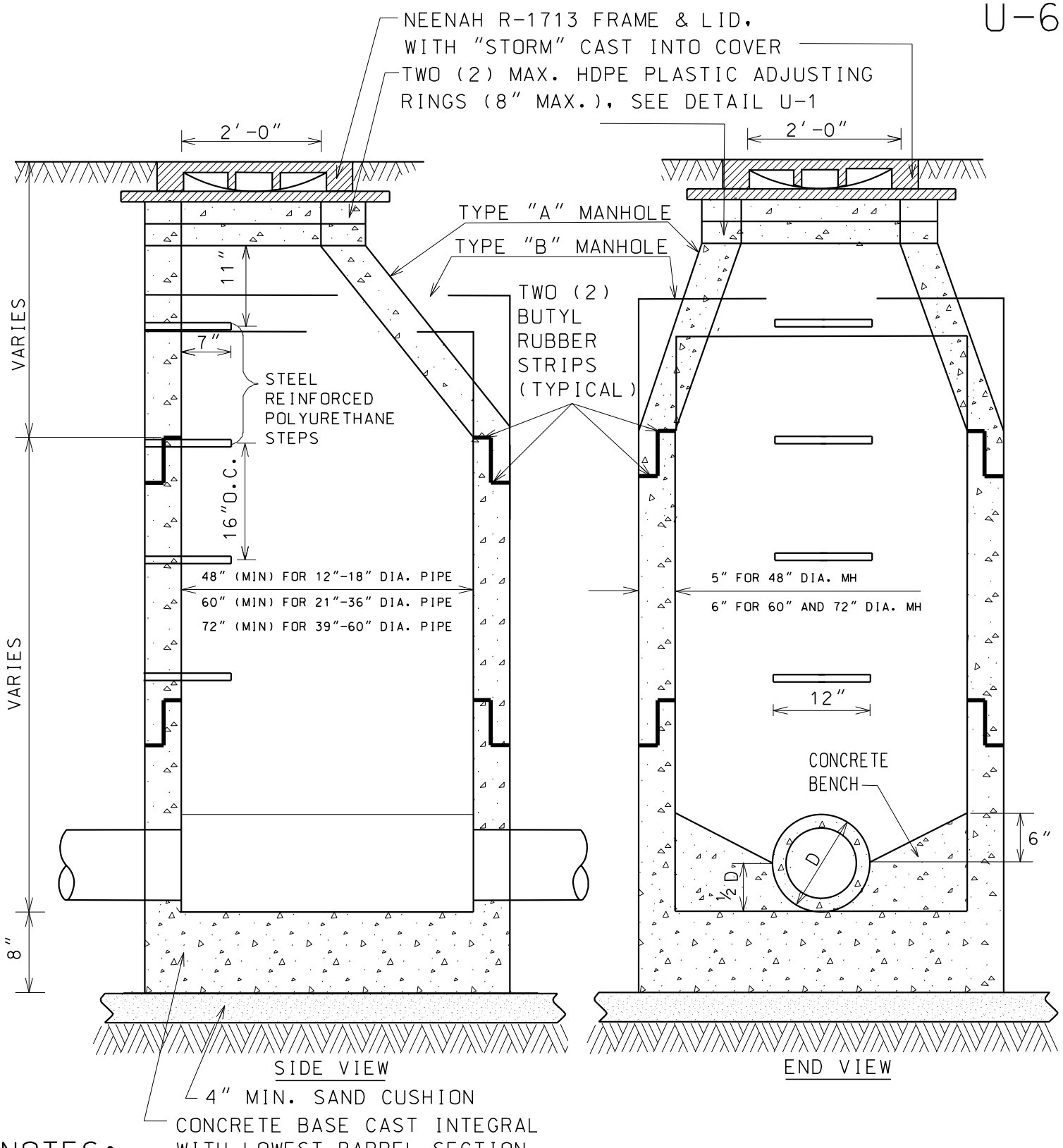
NOTES:

1. RESILIENT RUBBER CONNECTOR COMPLYING WITH ASTM STANDARD C-923 (MOST RECENT EDITION) SHALL BE USED.
2. CORE-DRILL CIRCULAR OPENING IN STRUCTURE WALL OF DIAMETER NECESSARY TO FIT THE REQUIRED BOOT SIZE.
3. KOR-N SEAL FLEXIBLE RUBBER BOOT (MANUFACTURED BY NATIONAL POLLUTION CONTROL SYSTEMS, INC.) MAY BE USED IF APPROVED BY VILLAGE ENGINEERING.
4. CUT, SHAPE AND SLOPE NEW INVERT CHANNEL IN THE EXISTING CONCRETE BENCH FOR SMOOTH FLOW FROM NEW CONNECTION.
5. CLEAN EXISTING STRUCTURE AND SEWER PIPE OF ANY DIRT, CONCRETE OR DEBRIS WHICH MAY ACCUMULATE DURING THE CONSTRUCTION PROCESS.

NOT TO SCALE

PIPE CONNECTION TO STRUCTURE DETAIL

REVISED: 3-15-22



NOTES:

1. MANHOLES MUST CONFORM TO ASTM C-478.
2. MANHOLE SECTIONS TO BE TONGUE AND GROOVED.
3. BENCHES MUST BE PROVIDED IN ALL STORM SEWER MANHOLES.
4. NON-PRECAST OPENINGS SHALL BE CORED, RUBBER BOOTED AND INTERIOR MORTARED AROUND PIPE.*
5. USE ECCENTRIC CONE ONLY.
6. FLAT TOP SLABS MAY BE ALLOWED WITH PRIOR APPROVAL BY VILLAGE ENGINEERING.

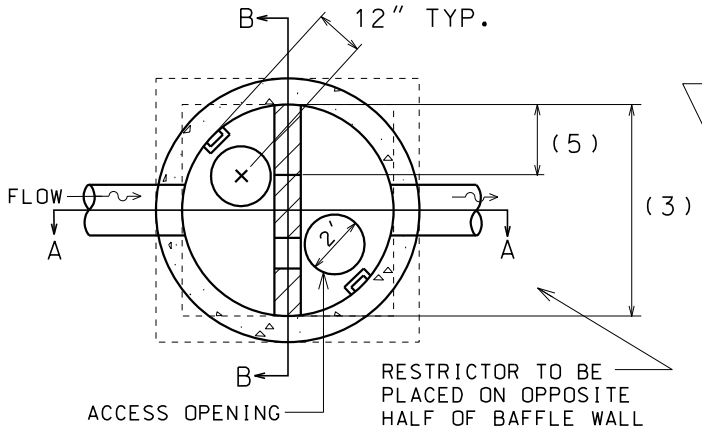
* SEE PIPE CONNECTION TO STRUCTURE DETAIL U-5 FOR NON-PRECAST OPENINGS.

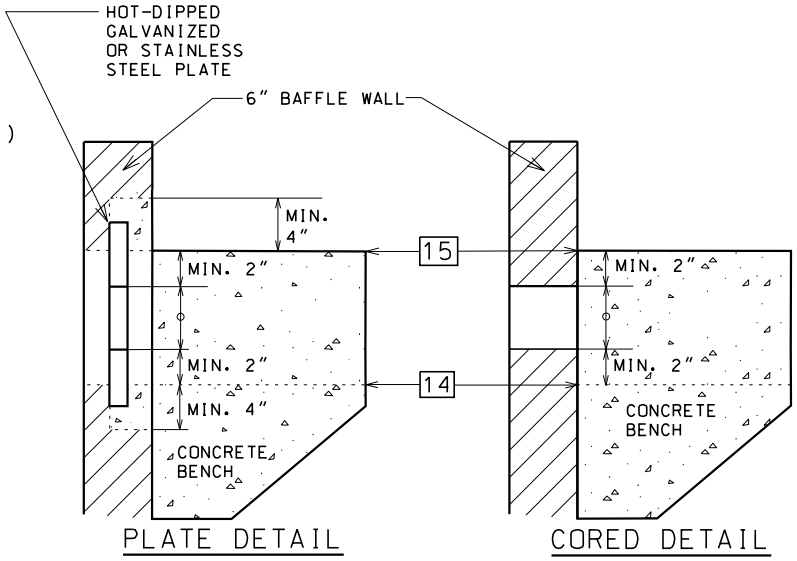
NOT TO SCALE

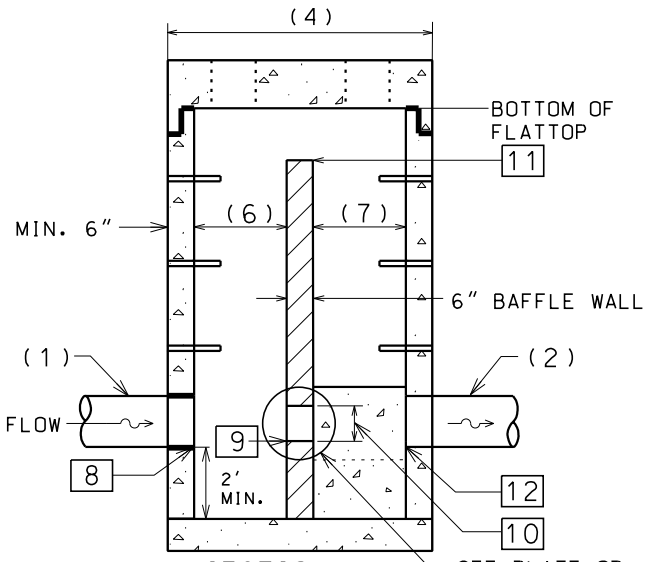
REVISED: 3-15-22

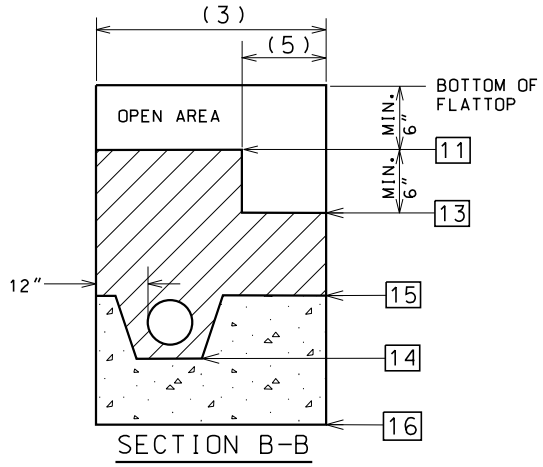
STORM MANHOLE DETAIL

NOT USED









NOTE	MEASUREMENT AND TYPE	
(1)		INFLOW PIPE DIA.
(2)		OUTFLOW PIPE DIA.
(3)		STRUCTURE WIDTH
(4)		STRUCTURE LENGTH
(5)		OVERFLOW WIDTH
(6)		INFLOW CHAMBER LENGTH
(7)		OUTFALL CHAMBER LENGTH
8		INFLOW PIPE INVERT
9		RESTRICTOR INVERT
10		RESTRICTOR DIA.
11		TOP OF WALL ELEV.
12		OUTFLOW PIPE INVERT
13		OVERFLOW ELEV.
14		BENCH BOTTOM ELEV.
15		BENCH TOP ELEV.

( ) - ALL DIMENSIONS IN INCHES
□ - ALL DIMENSIONS IN FEET (IN HUNDREDTHS)

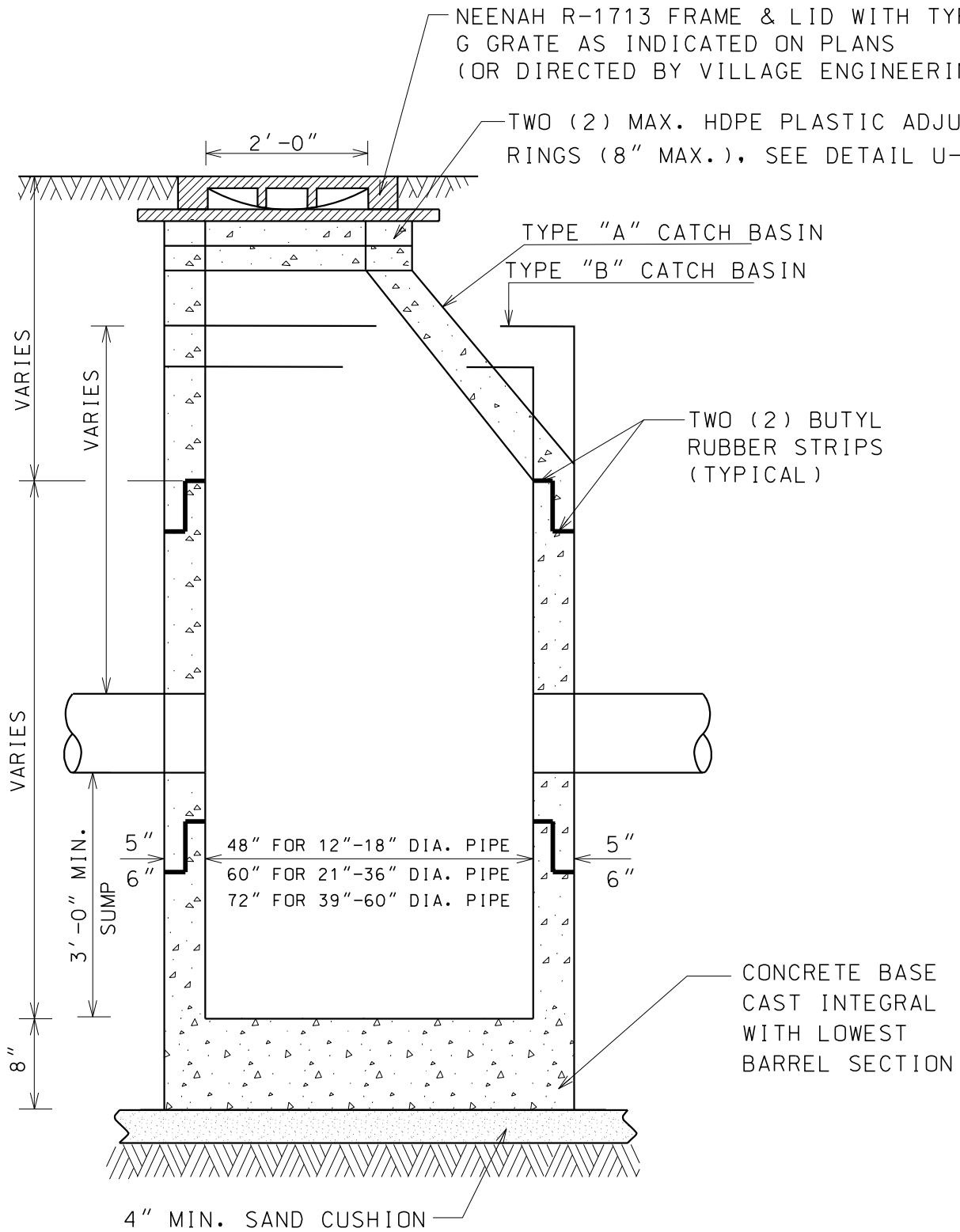
NOTES:

1. SUMP ELEVATION SHALL BE TWO FEET BELOW INVERT 8 .
2. STRUCTURE ACCESS OPENINGS SHALL BE PLACED ON EACH SIDE OF BAFFLE WALL.
3. FIELD VERIFY PRE-CAST STRUCTURE FOR AS-BUILT CONDITIONS AT TIME OF PLACEMENT. THIS PLACEMENT SHALL BE CERTIFIED BY THE DESIGN ENGINEER PRIOR TO CONTINUATION OF STORM SEWER OR STORMWATER MANAGEMENT CONSTRUCTION.
4. PLATE OR CORED RESTRICTOR IS ALLOWED. CORED RESTRICTOR SHALL BE HORIZONTALLY CUT, NOT SLOPED, AND CHIPPED OR SPALLED EDGE IS NOT ALLOWED. PLATE INSTALLED AND MORTARED IN FIELD. IN ADDITION TO MORTAR, STEEL PLATES SHALL ALSO BE ANCHORED TO THE STRUCTURE WALL AND BOTTOM USING STEEL ANGLES AND HARDWARE AS SHOWN IN IDOT DETAIL BD-12 "MANHOLE W/RESTRICTOR PLATE". THE CONNECTION OF THE RESTRICTOR PLATE TO THE STRUCTURE SHALL BE REVIEWED AND APPROVED BY THE VILLAGE.

NOT TO SCALE

REVISED: 3-15-22

SPECIAL RESTRICTOR STORM STRUCTURE DETAIL



NOTES:

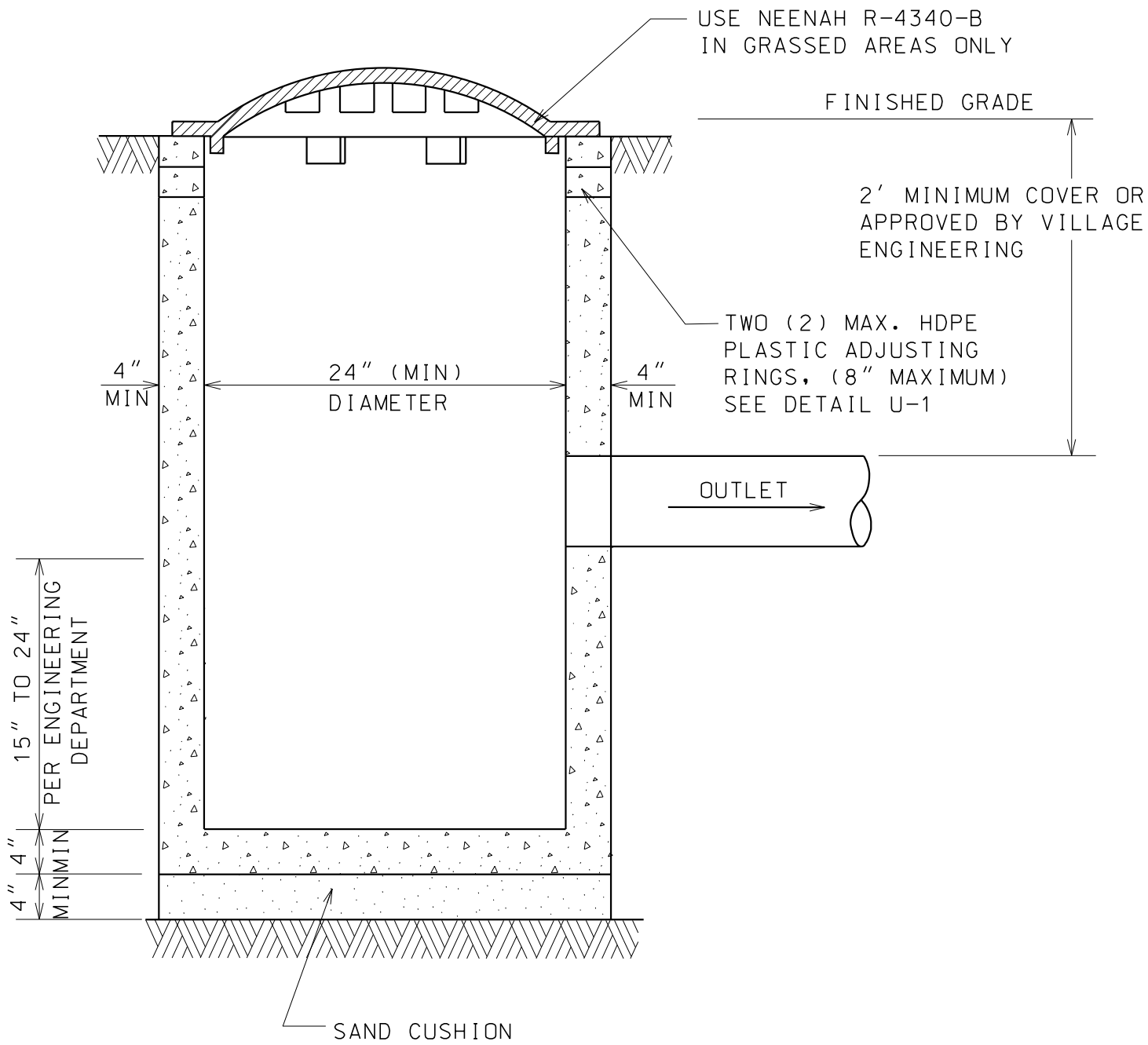
1. MANHOLES MUST CONFORM TO ASTM C-478.
2. MANHOLE SECTIONS TO BE TONGUE AND GROOVED.
3. NON-PRECAST OPENINGS SHALL BE CORED, RUBBER BOOTED AND INTERIOR MORTARED AROUND PIPE.*
4. USE ECCENTRIC CONE ONLY.
5. FLAT TOP SLABS MAY BE ALLOWED WITH PRIOR APPROVAL BY VILLAGE ENGINEERING.

* SEE PIPE CONNECTION TO STRUCTURE DETAIL U-5 FOR NON-PRECAST OPENINGS.

NOT TO SCALE

REVISED: 3-15-22

CATCH BASIN DETAIL



NOTE:

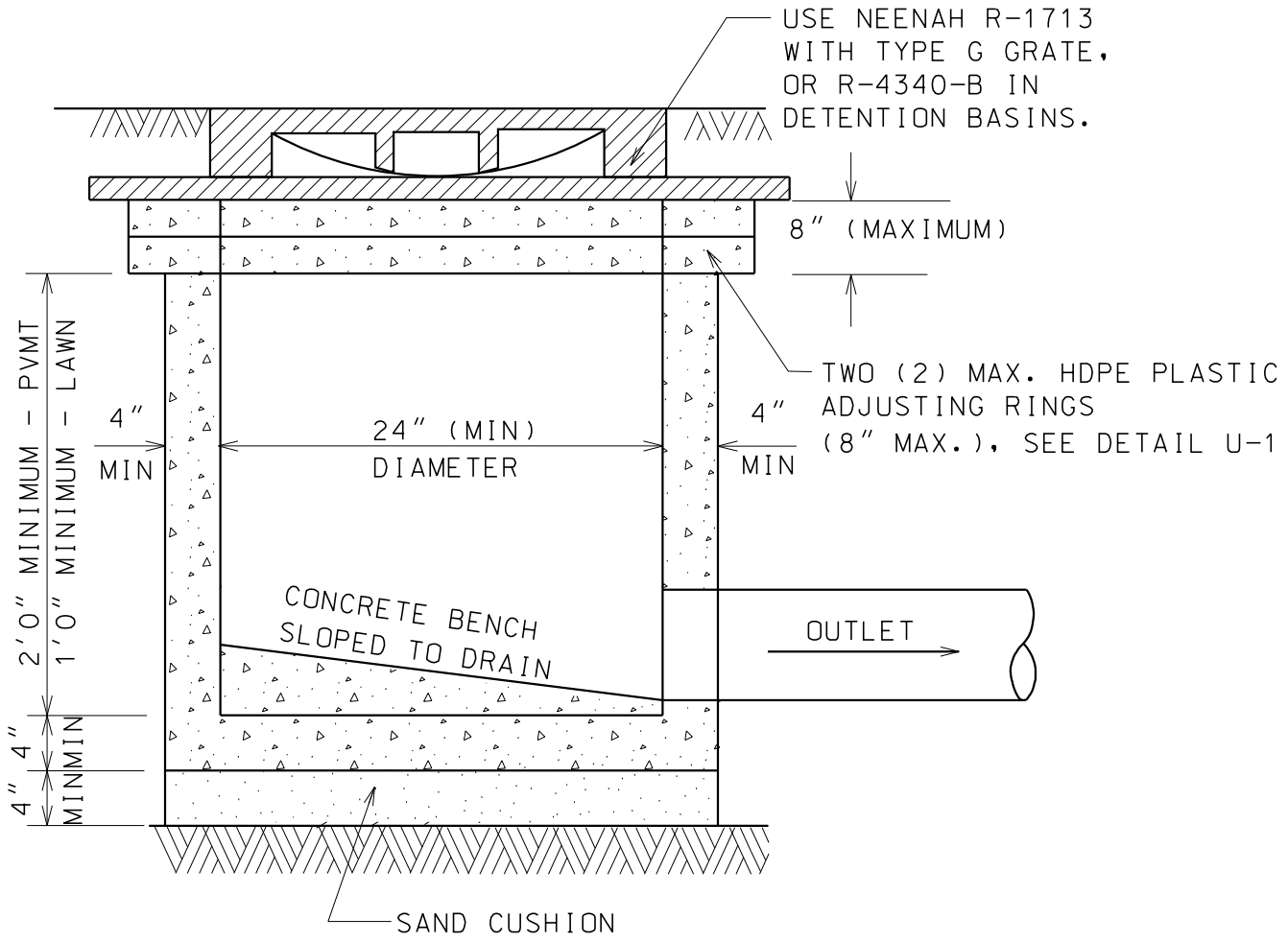
1. CATCH BASIN TO BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE.
2. CATCH BASIN MUST CONFORM TO ASTM C-478.
3. NON-PRECAST OPENINGS SHALL BE CORED, RUBBER BOOTED AND INTERIOR MORTARED AROUND PIPE.*
4. MAXIMUM DEPTH FROM INVERT OF OUTLET PIPE TO TOP OF FRAME SHALL NOT EXCEED 42 INCHES. IF DESIGN OR CONSTRUCTION REQUIRES DEPTH BEYOND 42 INCHES, STRUCTURE SHALL BE REVISED TO A 48 INCH DIAMETER CATCH BASIN.

* SEE PIPE CONNECTION TO STRUCTURE DETAIL U-5 FOR NON-PRECAST OPENINGS.

NOT TO SCALE

REVISED: 3-15-22

TYPE C CATCH BASIN DETAIL



NOTE:

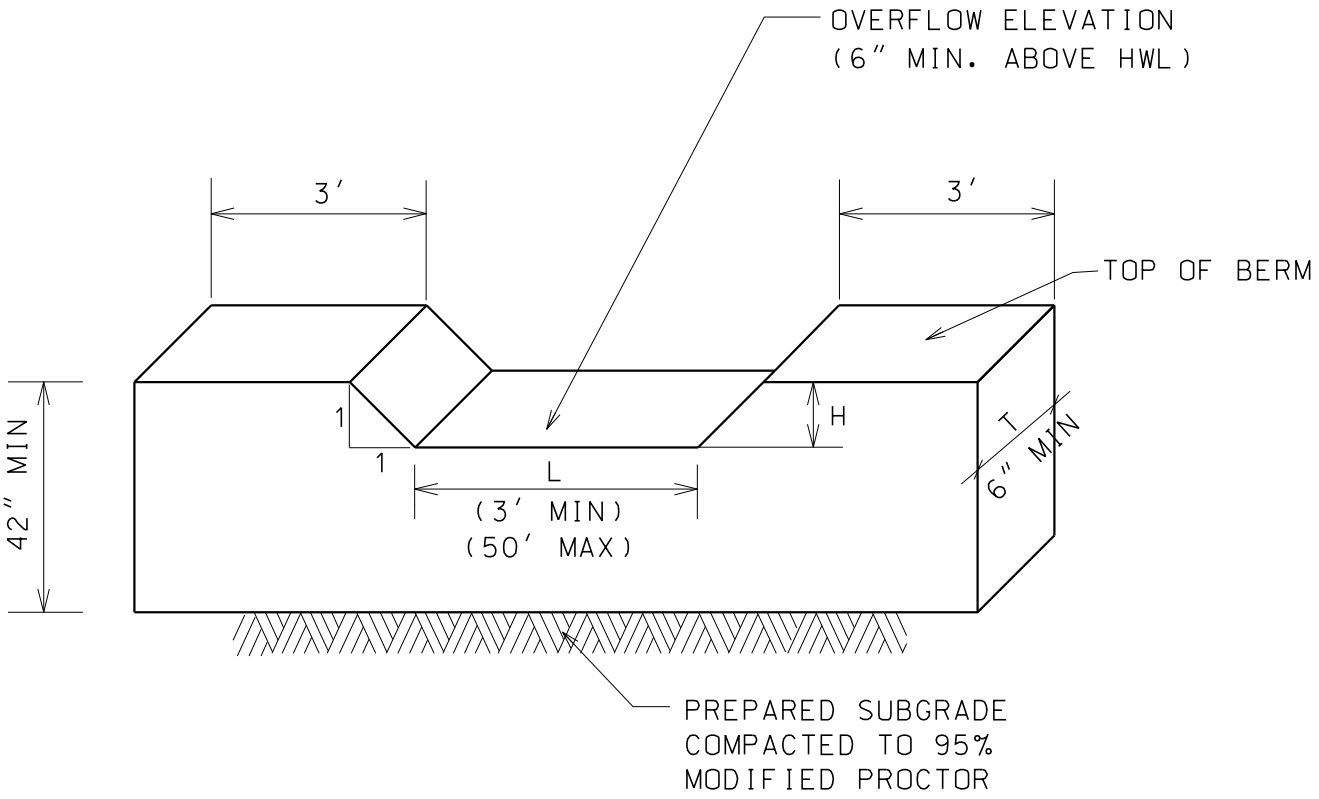
1. INLET MUST CONFORM TO ASTM C-478.
2. NON-PRECAST OPENINGS SHALL BE CORED RUBBER BOOTED, AND INTERIOR MORTARED AROUND PIPE.*
3. MAXIMUM DEPTH FROM INVERT OF OUTLET PIPE TO TOP OF FRAME SHALL NOT EXCEED 42 INCHES. IF DESIGN OR CONSTRUCTION REQUIRES DEPTH BEYOND 42 INCHES, STRUCTURE SHALL BE REVISED TO A 48 INCH DIAMETER MANHOLE.
4. BENCHES MUST BE PROVIDED IN ALL INLETS.

* SEE PIPE CONNECTION TO STRUCTURE DETAIL U-5 FOR NON-PRECAST OPENINGS.

NOT TO SCALE

REVISED: 3-15-22

INLET DETAIL



FOR DESIGN OF RECTANGULAR WEIR:

USE $Q=CLH^{3/2}$

WHERE Q= RELEASE RATE
C= 3.0 FOR BROAD-CRESTED RECTANGULAR WEIRS
L= WEIR OPENING
T= WALL THICKNESS (6" MIN)
H= HEAD (6" MIN)

USE COMPARABLE RELATIONSHIPS FOR DESIGN OF OVERFLOW STRUCTURES.

NOTES:

1. STRUCTURE TO BE CONSTRUCTED OF REINFORCED CONCRETE, IDOT CLASS SI (6.1 BAG MIX) MIN 3500 PSI AT 14 DAYS, WITH 5-8% AIR ENTRAINMENT.

2. SMOOTH FINISH - 1" CHAMFER ON ALL EXPOSED EDGES.

3. PROVIDE MIN #4 REBARS IN FOOTING AND WEIR, 12" O.C.,E.W.

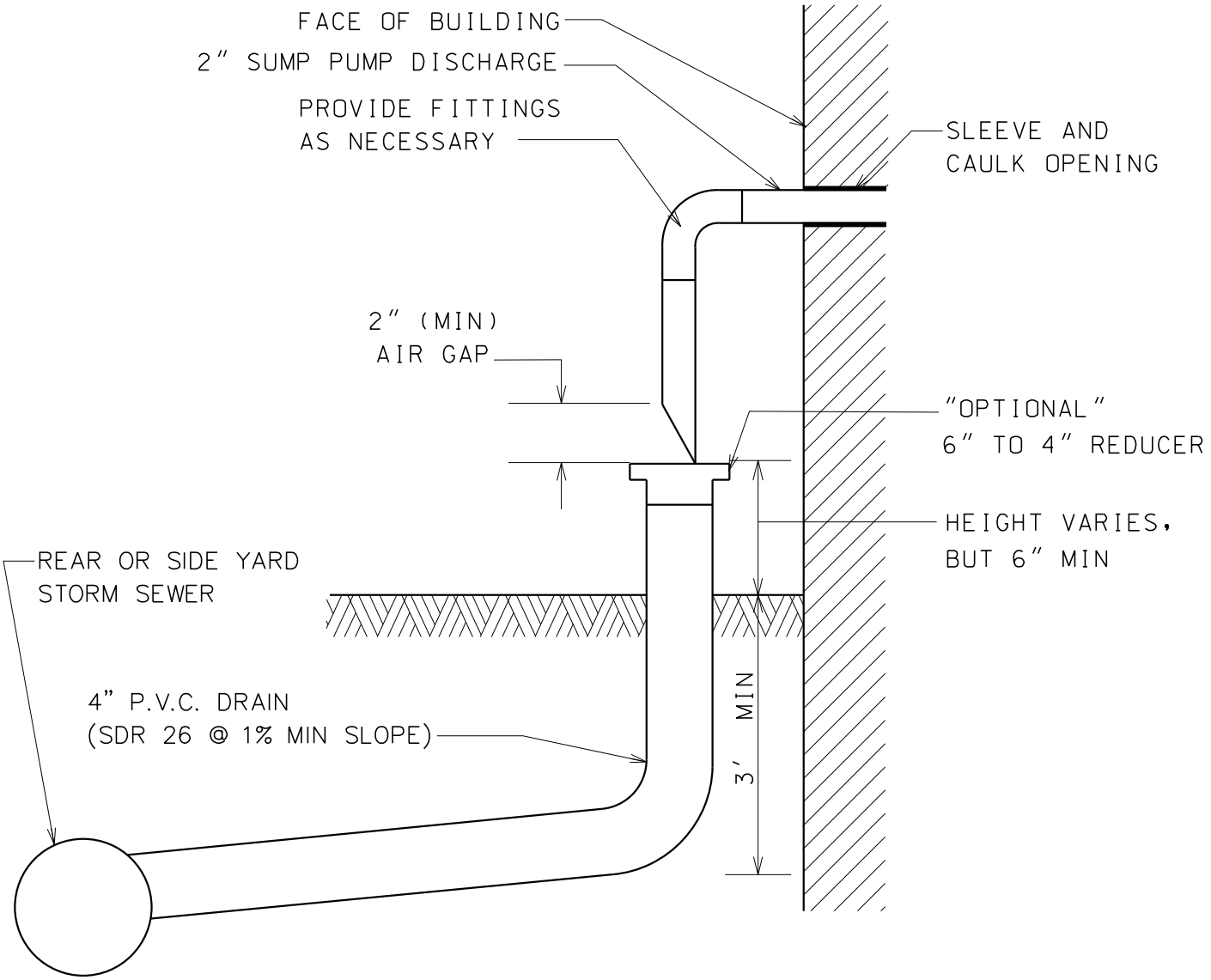
4. BACKFILL MATERIAL TO BE INORGANIC COHESIVE SOIL, COMPACTED IN MAXIMUM 12" (LOOSE) LIFTS TO AT LEAST 90% MODIFIED PROCTOR DENSITY (ASTM D-1557).

5. EROSION CONTROL MATERIAL TO BE PROVIDED IN FRONT AND REAR OF WEIR OPENING.

NOT TO SCALE

OVERFLOW (WEIR) STRUCTURE DETAIL

REVISED: 3-15-22



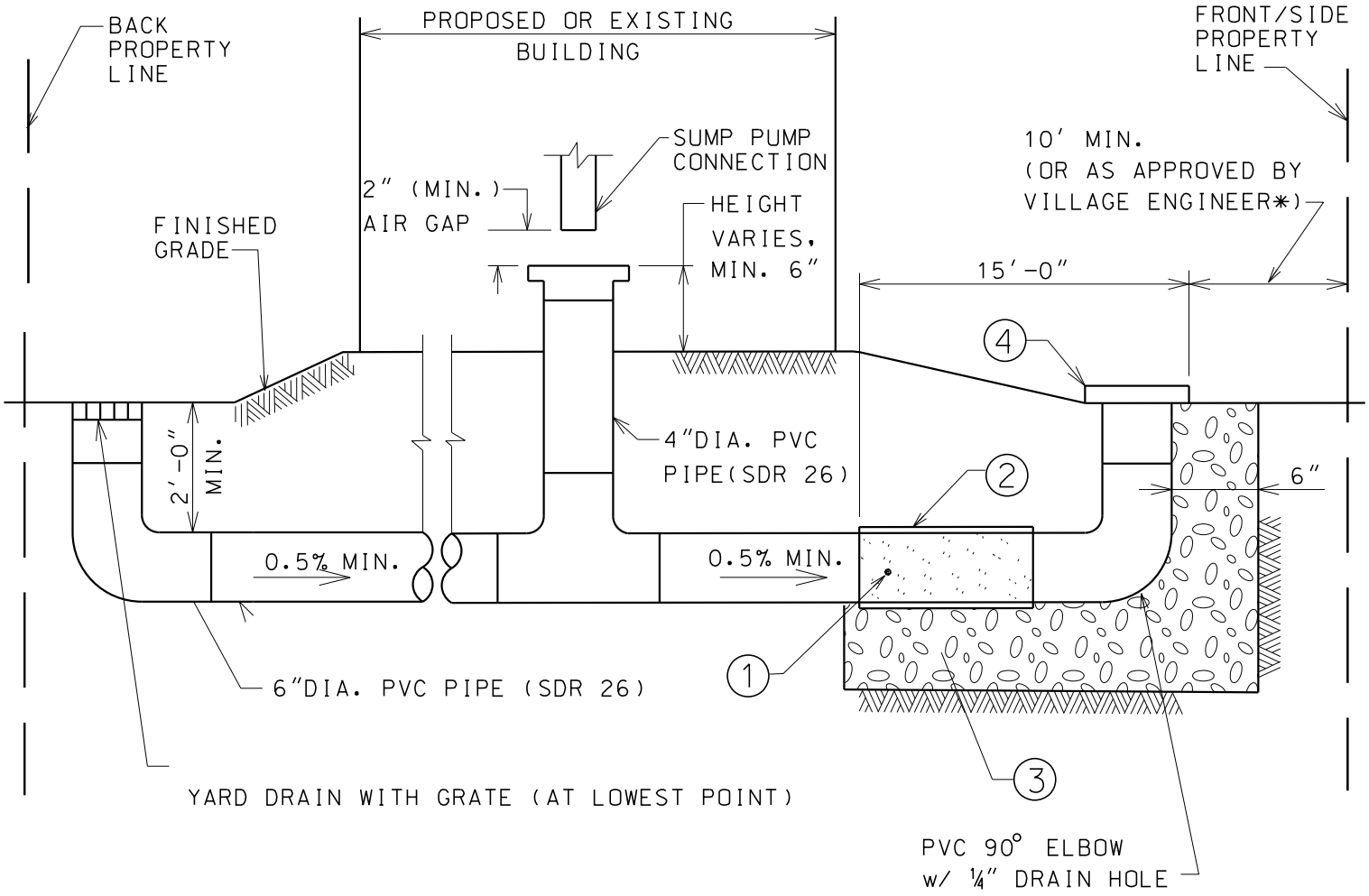
NOTE:

1. SUMP PUMPS SHALL BE DESIGNED WITH A MINIMUM 2" AIR GAP. A RIGID FOUR-INCH (4") DIAMETER PVC PIPE CAN BE USED TO CONNECT THE INDIVIDUAL SUMP PUMP SERVICE TO THE STORM SEWER. IN NO EVENT SHALL THE SUMP PUMP DISCHARGE INTO THE SANITARY SEWER SYSTEM.
2. A PLUMBING PERMIT IS REQUIRED PRIOR TO ANY SEWER CONNECTION.
3. SEE DETAIL U-5 FOR CONNECTION TO EXISTING STRUCTURES.
4. CONNECTION TO STORM SEWER PIPE IS AS FOLLOWS:
   a. EXISTING "WYE" FITTING
   b. CORE PIPE AND USE A BOOT CONNECTION (INSERTA TEE)
5. ENCASE ALL CONNECTIONS IN 12" OF LOW STRENGTH CONCRETE TO PREVENT FITTINGS FROM ROTATING.

NOT TO SCALE

SUMP PUMP DISCHARGE CONNECTION DETAIL

REVISED: 3-15-22



* DUE TO POTENTIAL ICING ISSUES ON ROADS AND/OR SIDEWALK, THE DISCHARGE POINT MAY BE BACK MORE THAN 10'

(1) - PERFORATED PVC PIPE (HOLES AT THE BOTTOM OF PIPE)

(2) - WRAP WITH POROUS LANDSCAPING CLOTH

(3) - 12" DEEP GRAVEL BED UNDER PERFORATED PIPE

(4) - POP-UP DRAINAGE EMITTER OR GRATE

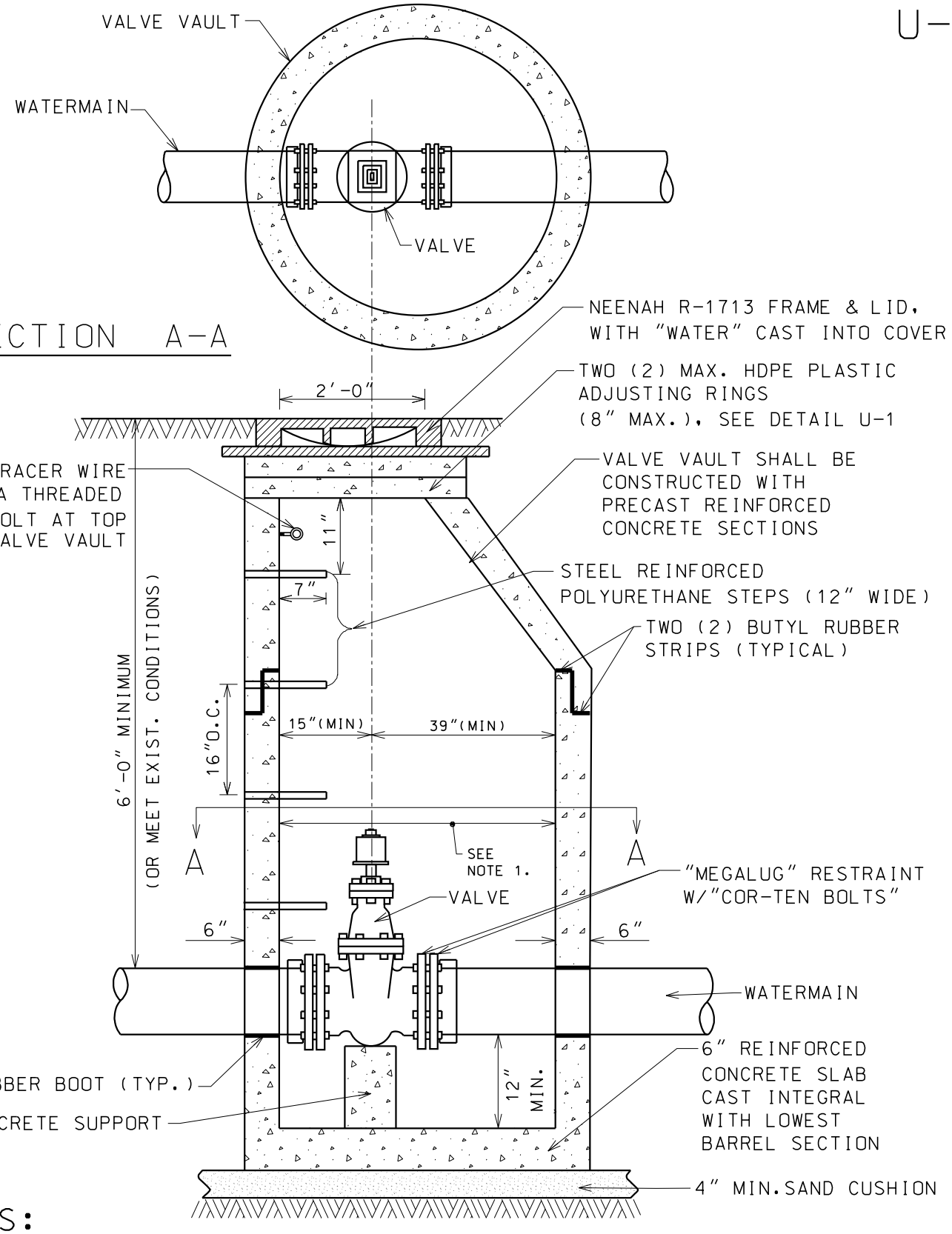
DISCLAIMER:

THIS DRAWING WAS GENERATED BY THE VILLAGE FOR INFORMATION PURPOSES ONLY. SINCE THE PROPOSED STORM SEWER PIPE IS LOCATED ON PRIVATE PROPERTY IT IS A PRIVATE SYSTEM. CONSEQUENTLY IT IS HOMEOWNERS RESPONSIBILITY TO MAINTAIN THIS STORM SEWER PIPING SYSTEM

NOT TO SCALE

STORM SEWER PIPING IN "UNSEWERED AREAS" DETAIL

REVISED: 3-15-22



NOTES:

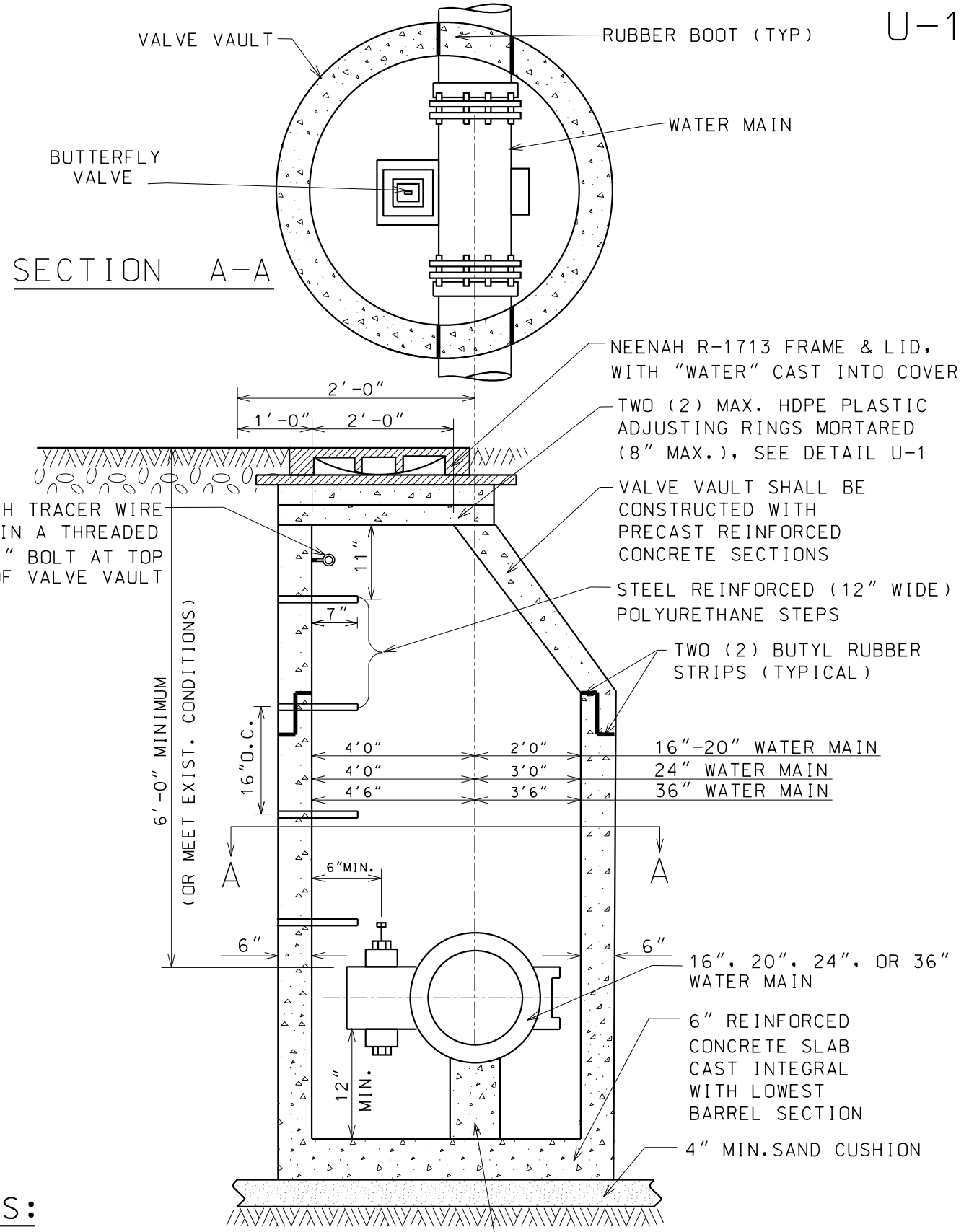
1. 60" (MIN) INSIDE DIA. FOR ALL VALVE VAULTS.
2. VALVE VAULT MUST CONFORM TO ASTM C-478.
3. USE ECCENTRIC CONE ONLY.
4. VAULT SECTIONS TO BE TONGUE AND GROOVED.
5. NON-PRECAST OPENINGS SHALL BE CORED, RUBBER BOOTED, AND MORTORED.*
6. BACKFILL MATERIAL SHALL BE IDOT CRUSHED CA 7 STONE.
7. a) MECHANICAL JOINT BOLTS & NUTS SHALL BE COMPOSED OF CORE-TEN.
   b) ALL OTHER HEXAGONAL BOLTS & NUTS SHALL BE COMPOSED OF STAINLESS STEEL.
8. TRACER WIRE SHALL BE USED ON ALL PIPE INSTALLATIONS, REGARDLESS OF PIPE MATERIAL.
9. ACCEPTABLE MANUFACTURER INCLUDES MUELLER, CLOW, WATEROUS, OR U.S. PIPE.
10. TRACER WIRE USED MUST BE SECURELY ATTACHED TO VALVE VAULT CONE AND LOOPED DIRECTLY UNDER VALVE VAULT LID.

* SEE PIPE CONNECTION TO STRUCTURE DETAIL U-5.

NOT TO SCALE

REVISED: 3-15-22

VALVE VAULT DETAIL



NOTES:

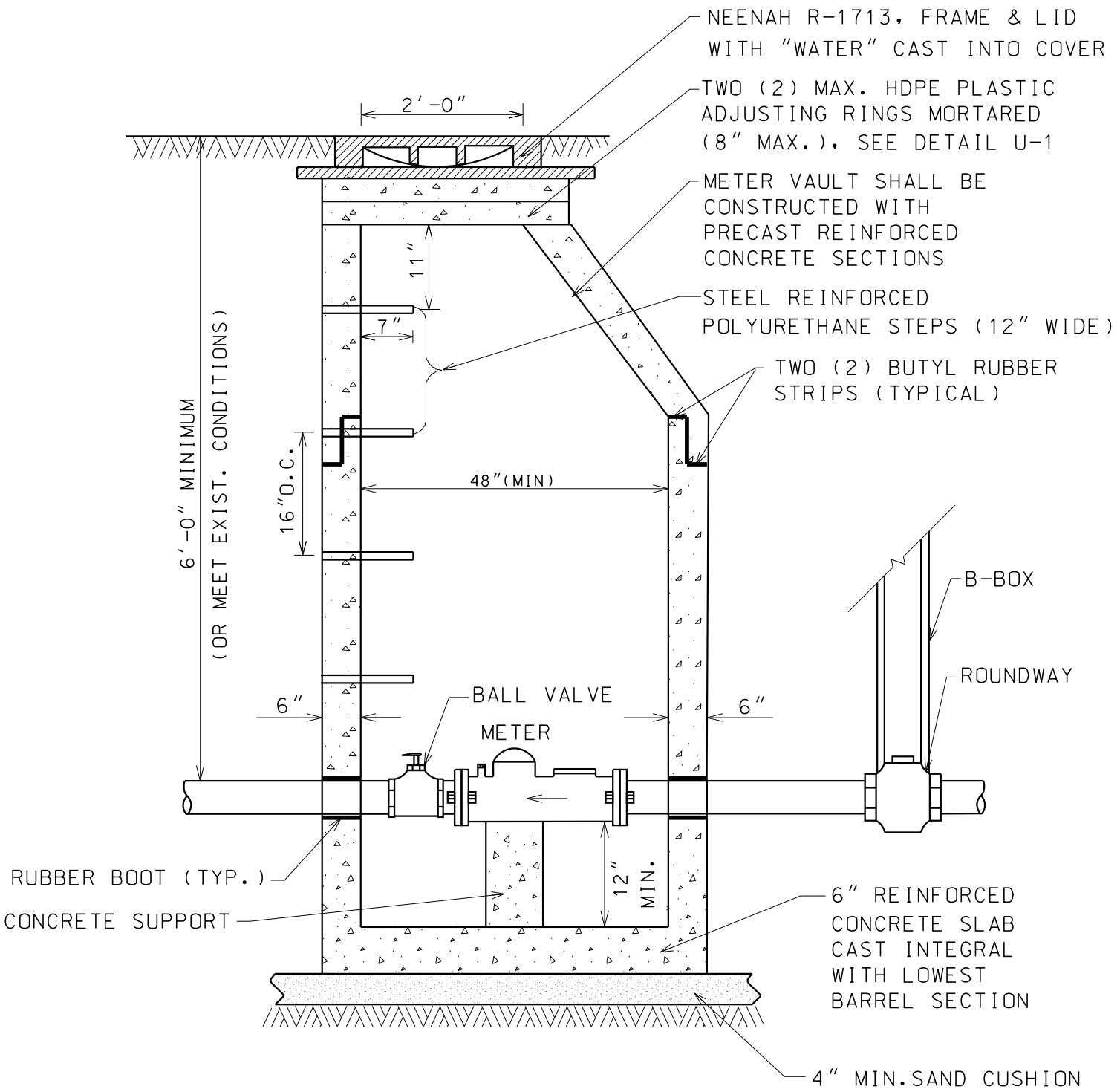
1. VALVE VAULT MUST CONFORM TO ASTM C-478.
2. USE ECCENTRIC CONE ONLY.
3. VAULT SECTIONS TO BE TONGUE AND GROOVED.
4. NON-PRECAST OPENING TO BE CORED, RUBBER BOOTED, AND MORTARED.*
5. BACKFILL MATERIAL SHALL BE IDOT CRUSHED CA 7 STONE.
6. ALL BOLTS SHALL BE STAINLESS STEEL.
7. TRACER WIRE SHALL BE USED ON ALL PIPE INSTALLATIONS, REGARDLESS OF PIPE MATERIAL.
8. ACCEPTABLE MANUFACTURER INCLUDES PRATT GROUNDHOG, MUELLER, LINSEAL III, OR VAL-MATIC.
9. TRACER WIRE USED MUST BE SECURELY ATTACHED TO VALVE VAULT CONE AND LOOPED DIRECTLY UNDER VALVE VAULT LID.

* SEE PIPE CONNNECTIONS TO STRUCTURE DETAIL U-5.

REVISED: 3-15-22

NOT TO SCALE

BUTTERFLY VALVE VAULT DETAIL



NOTES:

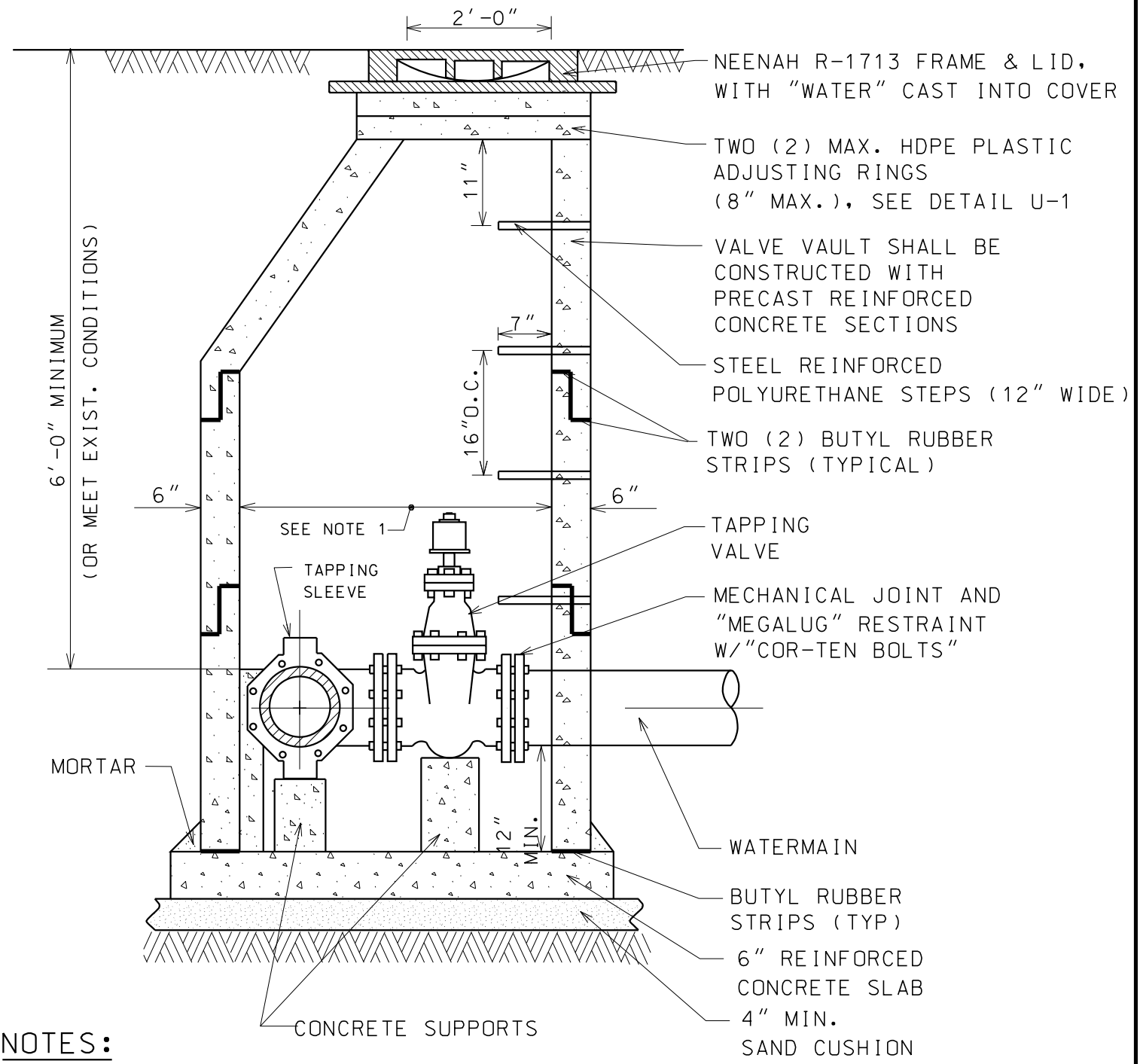
1. 48" (MIN) INSIDE DIA. FOR ALL VALVE VAULTS.
2. VALVE VAULT MUST CONFORM TO ASTM C-478.
3. USE ECCENTRIC CONE ONLY.
4. VAULT SECTIONS TO BE TONGUE AND GROOVED.
5. NON-PRECAST OPENINGS TO BE CORED AND RUBBER BOOTED.*
6. BACKFILL MATERIAL SHALL BE IDOT CRUSHED CA-7 STONE.

* SEE PIPE CONNECTION TO STRUCTURE DETAIL U-5.

NOT TO SCALE

REVISED: 3-15-22

PIT-SET METER VAULT DETAIL



NOTES:

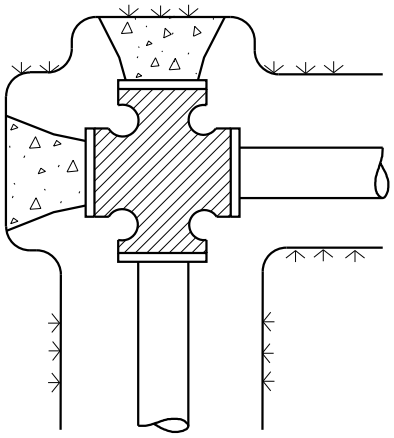
1. 60" (MIN) INSIDE DIA. FOR ALL PRESSURE CONNECTION VAULTS.
2. BACKFILL MATERIAL SHALL BE IDOT CRUSHED CA 7 STONE.
3. a) MECHANICAL JOINT BOLTS & NUTS SHALL BE COMPOSED OF CORE-TEN.
   b) ALL OTHER HEXAGONAL BOLTS & NUTS SHALL BE COMPOSED OF STAINLESS STEEL.
   c) TAPPING SLEEVE SHALL BE CAST IRON OR DUCTILE IRON BODY.
4. USE ECCENTRIC CONE FOR PRESSURE CONNECTIONS UP TO 12" DIA. USE CONCENTRIC CONES FOR PRESSURE CONNECTIONS 12" DIA. AND LARGER.
5. VALVE VAULT MUST CONFORM TO ASTM C-478.
6. ALL SECTIONS TO BE TONGUE AND GROOVED.
7. NON-PRECAST OPENINGS SHALL BE CORED, RUBBER BOOTED, AND MORTARED.*
8. TRACE WIRE SHALL BE USED ON ALL PIPE INSTALLATIONS, REGARDLESS OF PIPE MATERIAL.

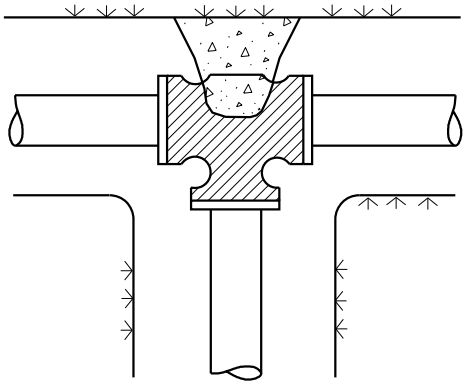
* SEE PIPE CONNECTIONS TO STRUCTURE DETAIL U-5.

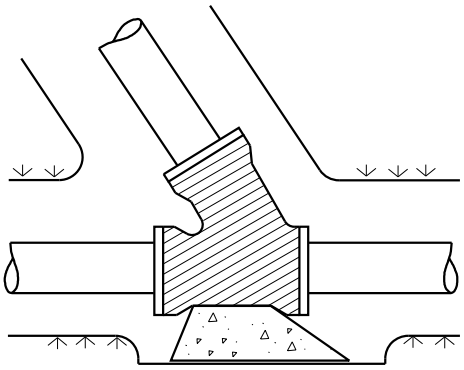
NOT TO SCALE

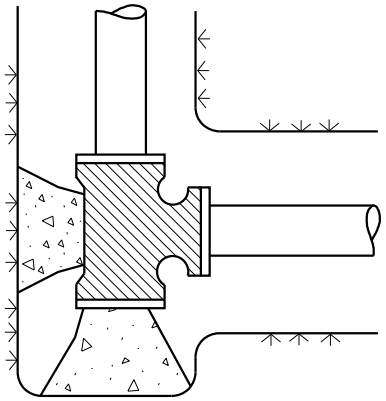
PRESSURE CONNECTION DETAIL

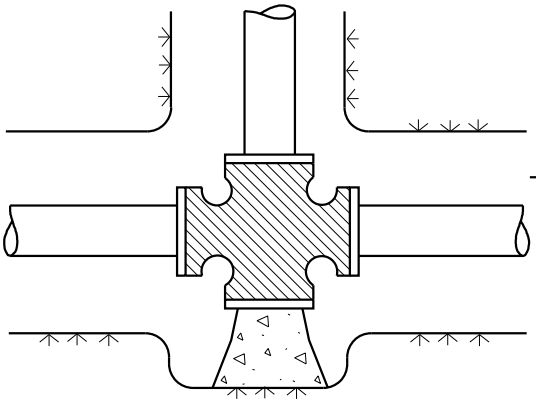
REVISED: 3-15-22

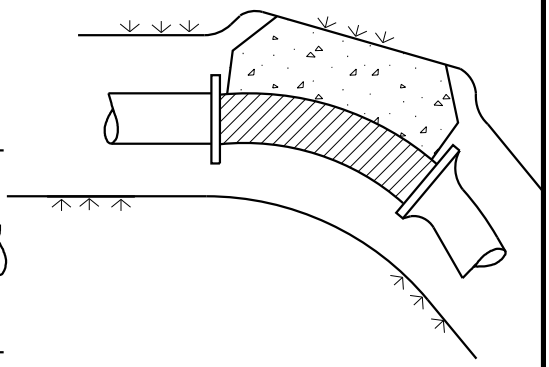


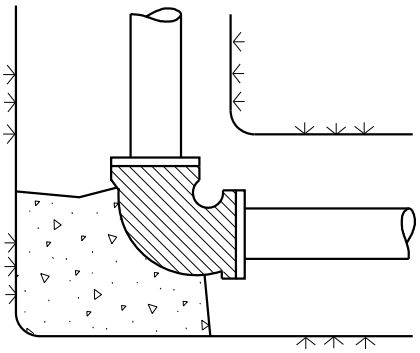


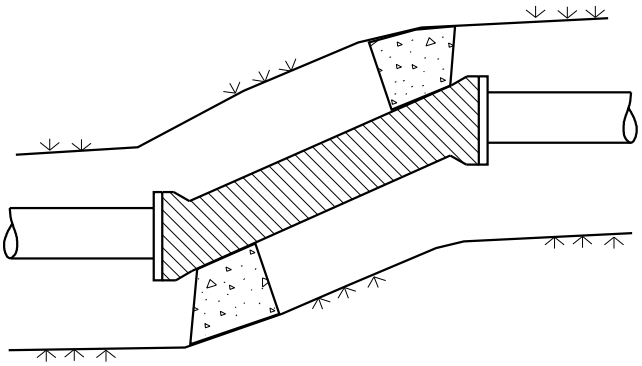












NOTE:

1. ALL BENDS OF 10° AND LARGER SHALL BE BLOCKED WITH AT LEAST 10" THICK POURED IN PLACE CONCRETE BLOCKS AGAINST UNDISTURBED VERTICAL EARTH FACE.

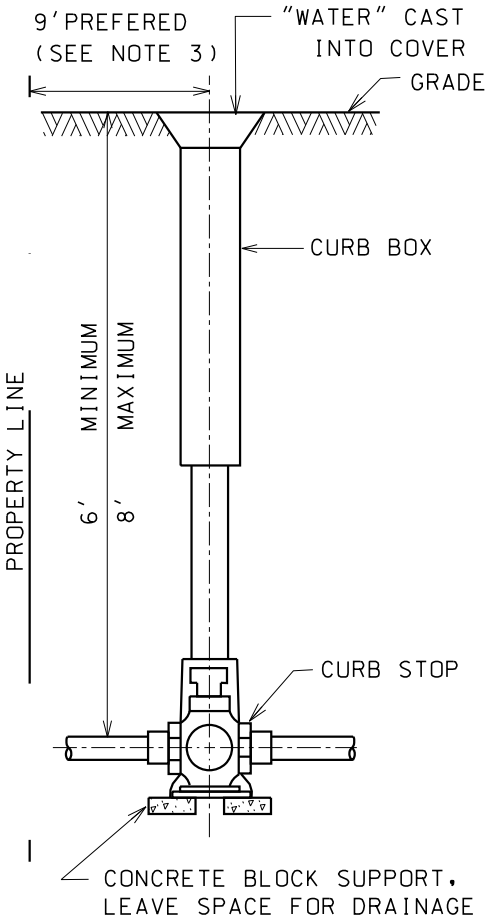
2. ALL CONCRETE TO BE MIN. 3,000 PSI.

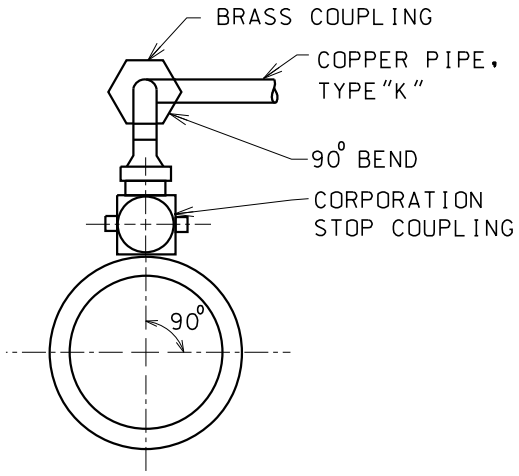
3. IN ADDITION TO THE ABOVE THRUST BLOCKING: ALL MECHANICAL JOINTS, (BENDS OVER 10, TEES, CROSSES, VALVES AND FIRE HYDRANTS) SHALL HAVE A "MEGALUG" RESTRAINT, OR AS APPROVED BY VILLAGE ENGINEERING. BOLTS SHALL BE "COR-TEN".

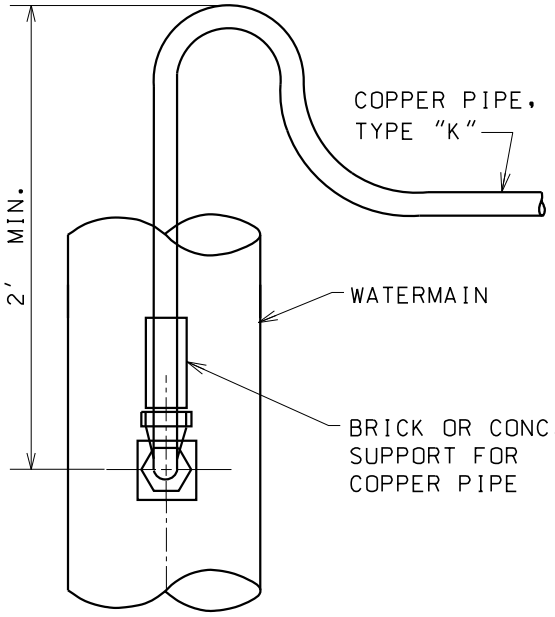
NOT TO SCALE

THRUST BLOCK DETAIL

REVISED: 3-15-22







A. CURB BOX: FOR 1",1½",2" WATER SERVICES

1. -MUELLER H-10302 WITH 1½" I.D. UPPER SECTION AND A 2" MINNEAPOLIS TAPPED BASE.
2. -FORD EM2-60-67.
3. -AY McDONALD 5623 EXTENDABLE TO 6 FEET.

B. CURB STOP:

1. -MUELLER B-25154 (1",1½",2").
2. -FORD 1" IS B22-444M; *CURB STOP WILL REQUIRE 2"x1½" BUSHING
   1½" IS B22-666M
   2" IS B22-777M.
3. -AY McDONALD 6104 (1",1½",2"). *1"CURB STOP WILL REQUIRE 2"x1½" BUSHING.

C. CORPORATION STOP:

1. -MUELLER B25000 PLUS H-15068 QUARTER BEND FLARED COUPLING.
2. -FORD 1" IS FB600-4 PLUS LO2 SWIVEL QUARTER BEND FLARED COUPLING
   1½" IS FB600-6 PLUS LO2 SWIVEL QUARTER BEND FLARED COUPLING
   2" IS FB600-7 PLUS LO2 SWIVEL QUARTER BEND FLARED COUPLING.
3. -AY McDONALD 4701B PLUS 4776S SWIVEL QUARTER BEND FLARED COUPLING.

D. SERVICE SADDLES:

1. FOR DUCTILE IRON WATER MAIN, USE THE FOLLOWING DOUBLE-STRAP BRONZE/BRASS SADDLES:
   -MUELLER BR2B
   -FORD 202B
   -AY McDONALD 3825
2. FOR PVC WATER MAIN, USE THE FOLLOWING STAINLESS STEEL SADDLES:
   -SMITH BLAIR 372
   -ROMAC INDUSTRIES 306-H
   -FORD FS313

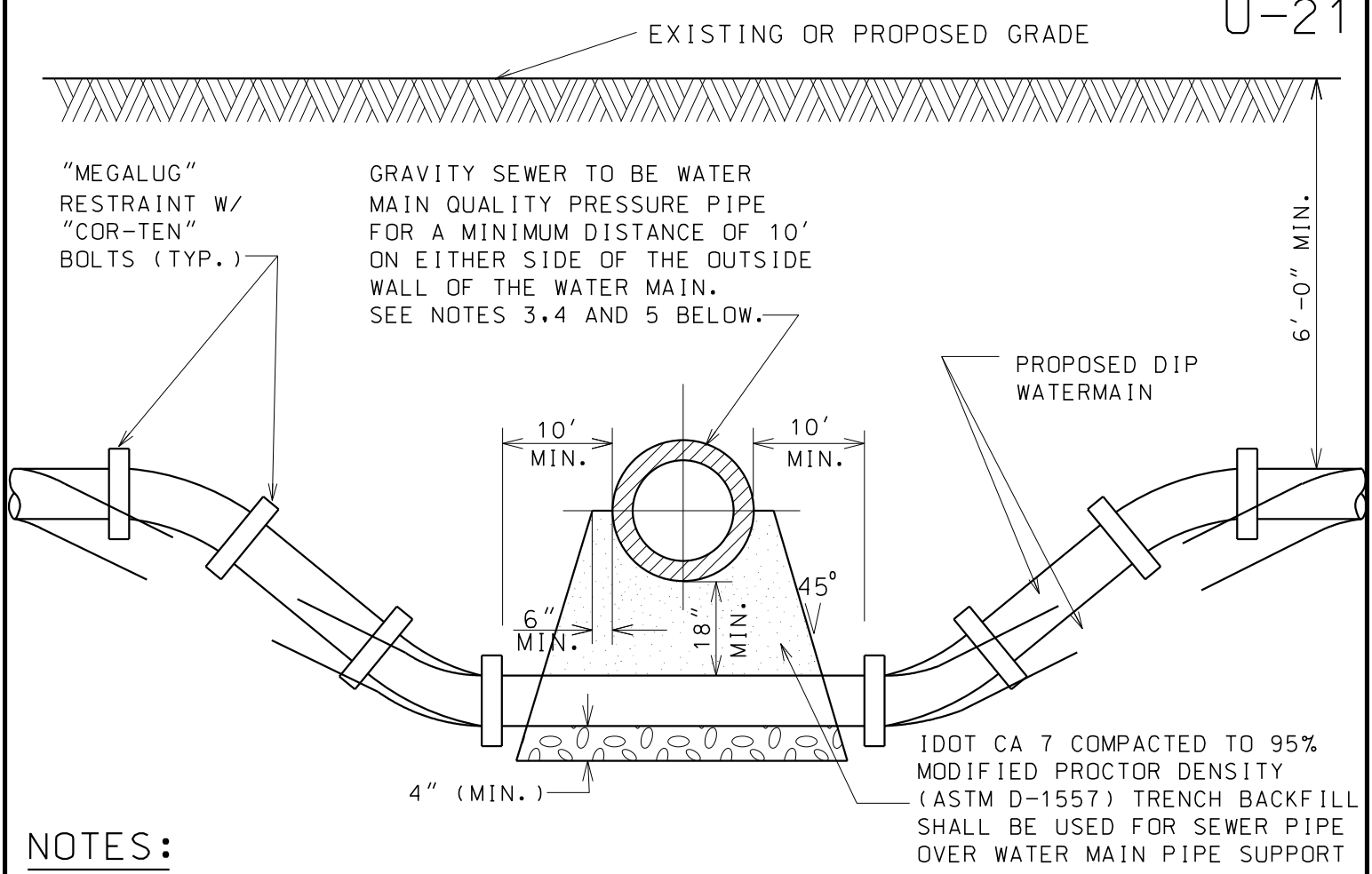
NOTES:

1. PIPE SIZE CAN VARY, BUT 1" MINIMUM. NEW TAPS ON A VILLAGE WATER MAIN MUST BE MINIMUM 1.5" DIAMETER. OTHER APPURTENANCES SHALL REFLECT SAME.
2. COPPER PIPE SHALL BE ONE PIECE BETWEEN TAP AND CURB BOX.
3. CURB BOX SHALL BE 3' FROM PROPERTY LINE WITHIN CUL-DE-SACS.
4. MINIMUM OF 3' BETWEEN TAPS AND 3' TO NEAREST JOINT.
5. STAMP OR SAWCUT ON THE CURB (OR PAVEMENT SURFACE AS DIRECTED BY VILLAGE ENGINEER) ALL NEW B-BOX/SERVICE LOCATIONS WITH "W". ANY ABANDONMENT/REMOVAL OF B-BOX SERVICES REQUIRES REMOVAL OF THE EXISTING STAMPED OR SAWCUT MARKING AT THE TIME OF ABANDONMENT/REMOVAL.
6. FOR MULTI-UNIT DWELLINGS, THE FIRE CURB BOX LID SHALL BE CAST WITH "FIRE" AND PAINTED RED.

NOT TO SCALE

REVISED: 3-15-22

COPPER WATER SERVICE CONNECTION DETAIL



NOTES:

1. HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATERMAINS AND SEWERS SHALL COMPLY WITH VILLAGE OF GLENVIEW ENGINEERING STANDARDS MANUAL OR IEPA REQUIREMENTS, WHICHEVER IS MORE STRINGENT.

2. CONTRACTOR MAY BEND WATER MAIN PIPE UNIFORMLY UNDER SEWERS WITHOUT USING FITTINGS, PROVIDED THAT JOINT DEFLECTION DOES NOT EXCEED 5 DEGREES PER JOINT FOR PIPE UNDER 14" IN DIAMETER AND 3 DEGREES PER JOINT FOR PIPE 14" AND OVER IN DIAMETER. IF FITTINGS ARE USED, CONTINUOUS STRAPPING WITH RODS, STRAPS, NUTS AND BOLTS BELOW NORMAL WATERMAIN DEPTH ARE REQUIRED, OR RETAINER GLANDS MAY BE USED IN LIEU OF STRAPPING. RETAINER GLANDS TO BE "MEGALUG" RESTRAINT, SERIES 1100 OR APPROVED EQUAL WITH "COR TEN" BOLTS.

3. ALL SANITARY SEWER (INCLUDING SERVICE) CROSSINGS WHERE THE WATER MAINS OR WATER SERVICES ARE LESS THAN 18" VERTICALLY ABOVE THE SEWER SHALL BE POLYVINYL CHLORIDE PRESSURE PIPE (SDR 26-160 PSI) AND SHALL CONFORM WITH THE LATEST REVISION OF ASTM D- 2241. JOINTS SHALL CONFORM TO ASTM D-3139 AND ELASTOMERIC GASKETS SHALL CONFORM TO ASTM F-477. THE SAME PIPE AND JOINT MATERIALS SHALL BE USED WHENEVER WATER MAIN CROSSES BELOW THE SEWER.

4. ALL STORM SEWER (INCLUDING SERVICE) CROSSINGS WHERE THE WATER MAINS ARE LESS THAN 18" VERTICALLY ABOVE THE SEWER SHALL BE REINFORCED CONCRETE PIPE, ASTM C-361, CLASS D-25,WITH BELL AND SPIGOT JOINTS AND RUBBER GASKETS, OR PVC SDR 26 AS SPECIFIED IN NOTE 3 ABOVE. THE SAME PIPE AND JOINT MATERIAL SHALL BE USED WHENEVER WATER MAIN CROSSES BELOW THE SEWER.

5. FOR NEW SEWER INSTALLATIONS CROSSING OVER WATER MAINS, THE ENTIRE RUN OF NEW SEWER SHALL BE WATER MAIN QUALITY PIPE, EXTENDING FROM STRUCTURE TO STRUCTURE ON EACH SIDE OF THE CROSSING.

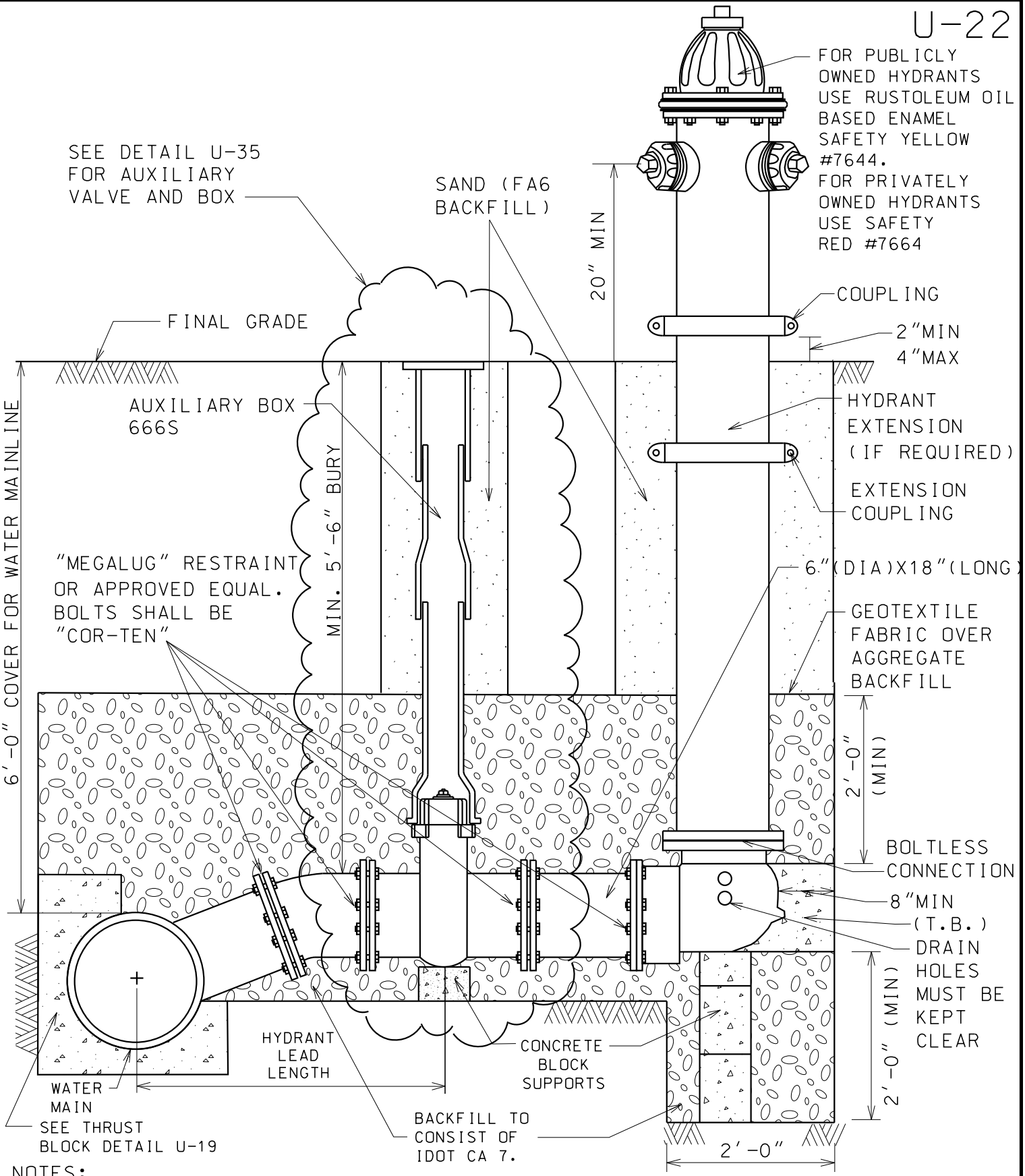
6. NEW WATER SERVICES THAT CANNOT MAINTAIN ADEQUATE HORIZONTAL AND VERTICAL SEPARATION FROM EXISTING SANITARY AND STORM SEWERS, MAY BE CASED WITH A SMALL DIAMETER C900 WATER MAIN QUALITY PIPE AND SEALED WITH GASKETS AT BOTH ENDS OF THE CASING PIPE WITH PRIOR APPROVAL BY VILLAGE ENGINEERING.

NOT TO SCALE

WATER MAIN CROSSING DETAIL

REVISED: 3-15-22

U-22



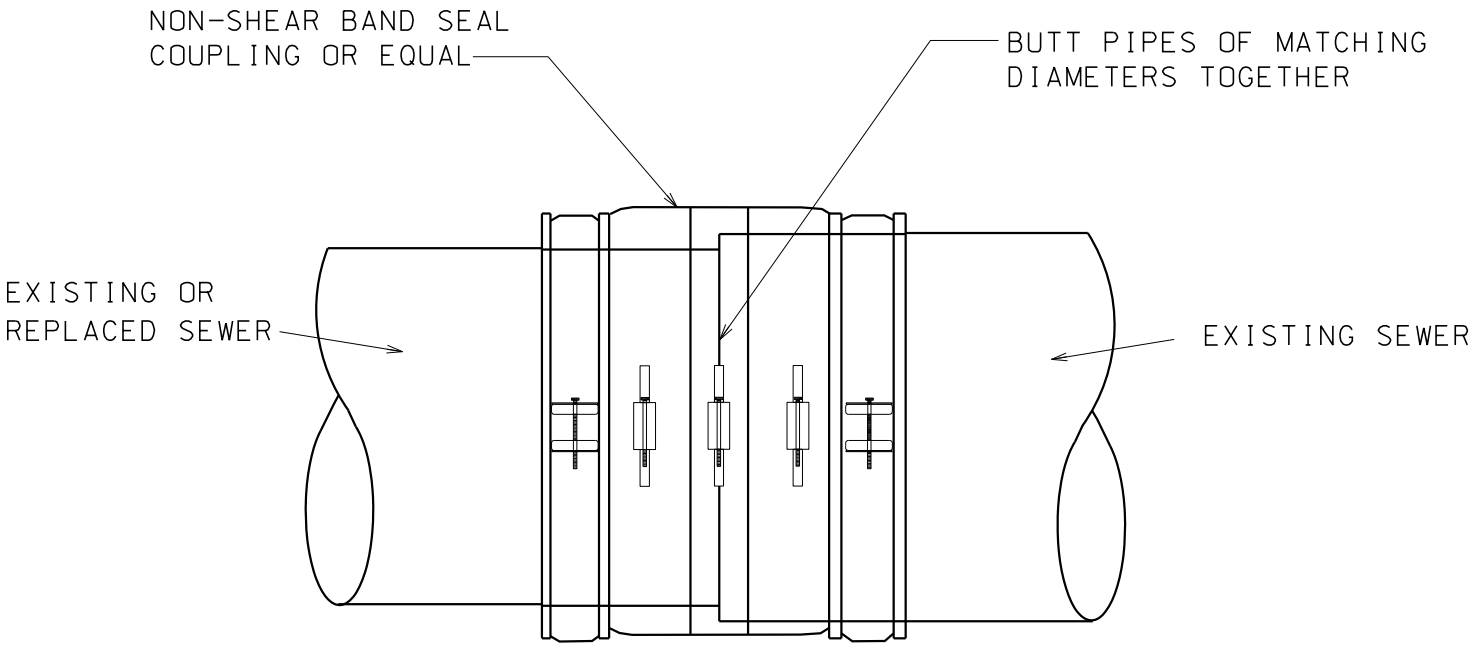
NOTES:

1. MUELLER SUPER CENTURION 200 A-425 HYDRANT OR CLOW F-2545 HYDRANT.
2. ALL HYDRANTS TO HAVE TWO 4½" PUMPER NOZZLES, N.S.T.,AT 90 DEGREES SPREAD BETWEEN NOZZLES.
3. MECHANICAL JOINT SHOE WITH 6" RESILIENT WEDGE AUXILIARY VALVE.
4. MAIN VALVE OPENING SHALL BE 5¼".
5. HYDRANT BARREL SHALL BE ONE PIECE DUCTILE IRON PIPE, POLY-WRAPPED (AS WATER MAIN) TO HYDRANT BASE.
6. HYDRANT LEADS TO BE DUCTILE IRON PIPE, 6" DIAMETER UP TO 25' LONG, AND 8" DIAMETER IF GREATER THAN 25'.
7. A MAGNETIZED TRACER BOX SHALL BE INSTALLED AT EACH NEW FIRE HYDRANT. LOCATE THE BOX BEHIND THE FIRE HYDRANT AWAY FROM THE FLOW OF WATER, WITHIN TWO FEET OF THE HYDRANT BARREL.

NOT TO SCALE

REVISED: 3-15-22

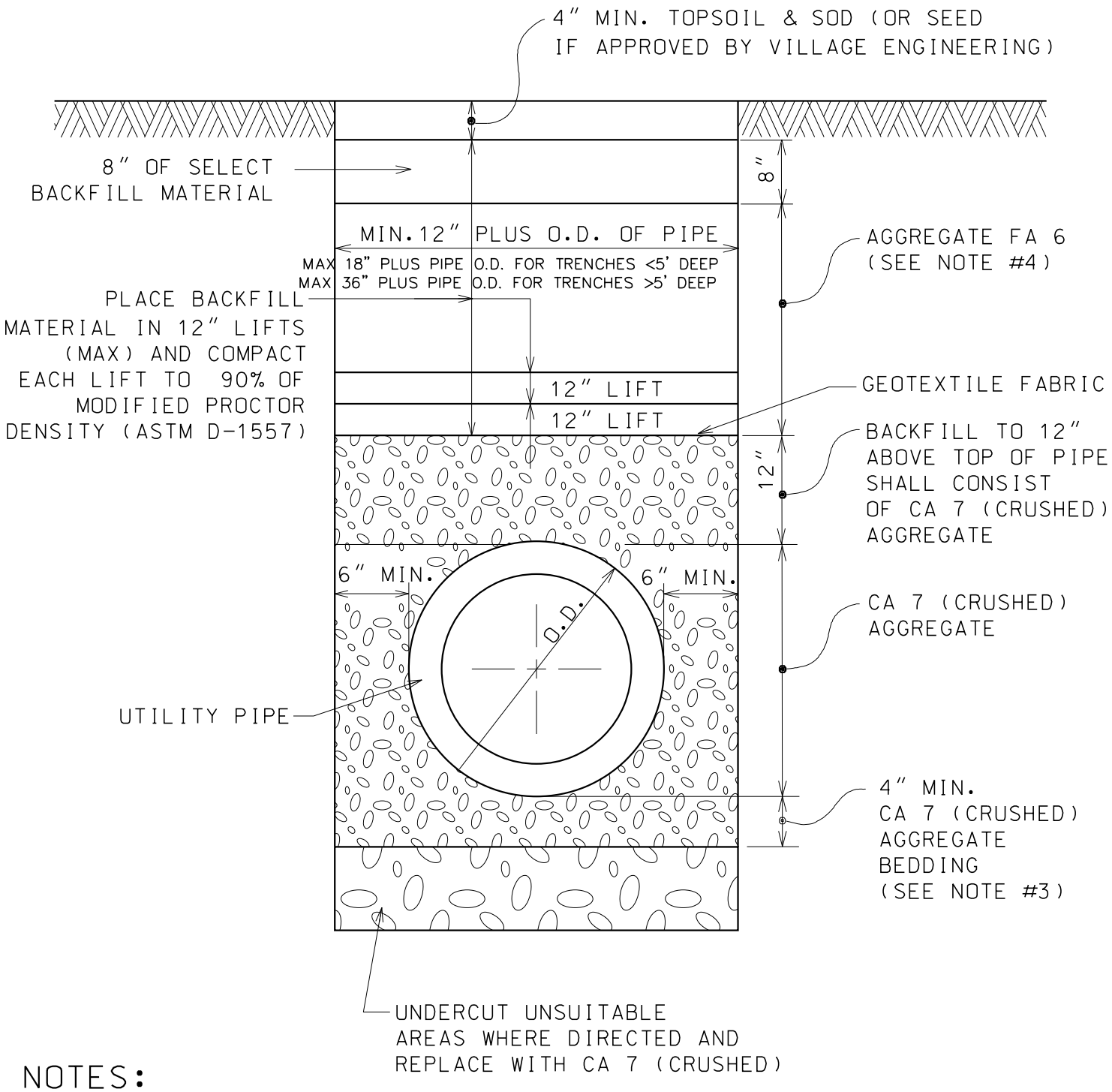
HYDRANT DETAIL



NOT TO SCALE

PIPE COUPLING DETAIL

REVISED: 3-15-22



NOTES:

1. ALL BACKFILL MATERIALS SHALL BE PROPERLY COMPACTED.

2. ALL TRENCH EXCAVATIONS SHALL MEET OSHA REQUIREMENTS.

3. BEDDING MATERIAL FOR PVC PIPE INSTALLATION SHALL COMPLY WITH ASTM D-2321.

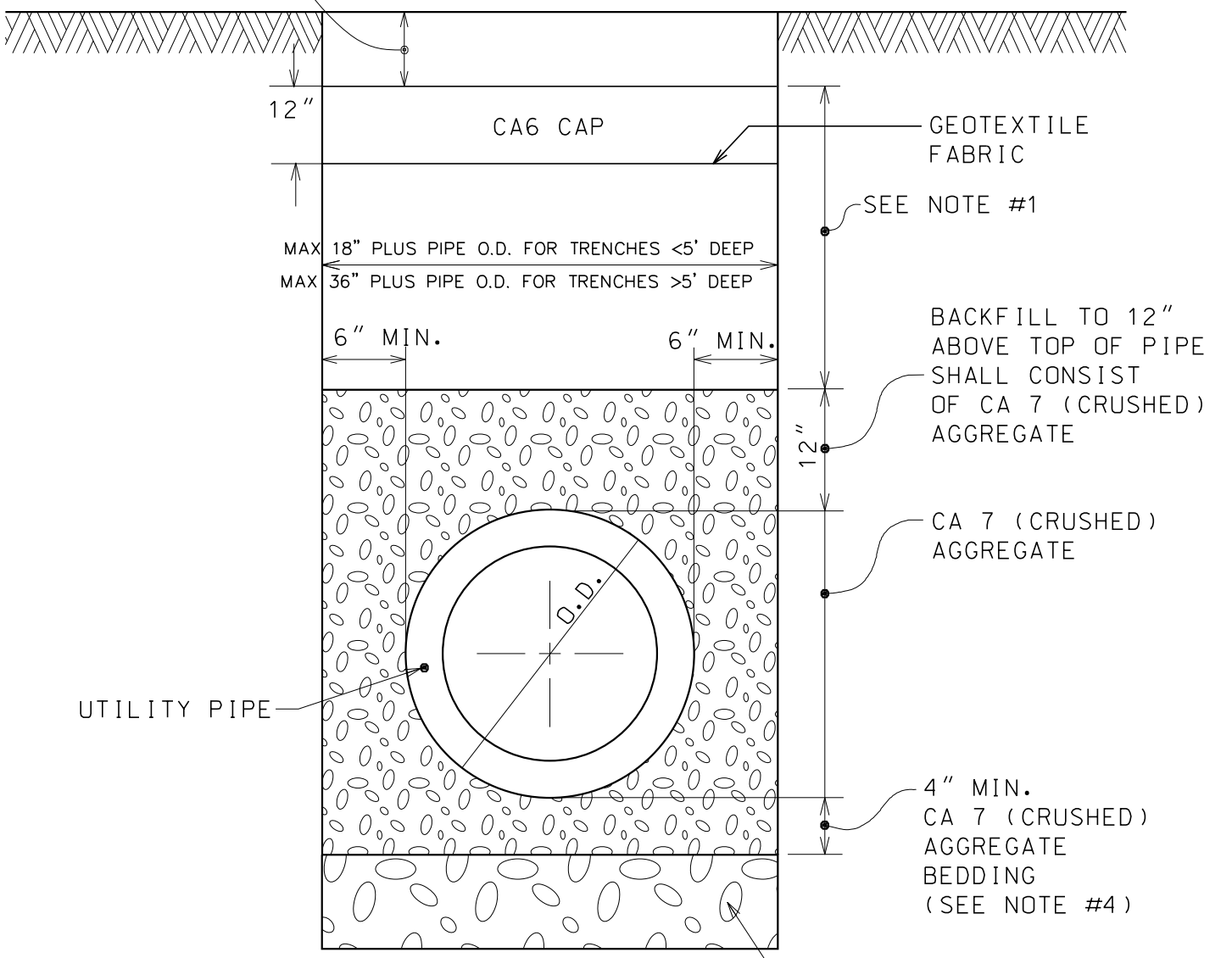
4. FOR WATER MAIN TRENCHES, CRUSHED CA 7 SHALL EXTEND UP TO TWELVE (12) INCHES FROM FINISHED GRADE. WATER SERVICE TRENCHES SHALL BE BACKFILLED PER THIS DETAIL.

NOT TO SCALE

REVISED: 3-15-22

UTILITY TRENCH IN NON-PAVED AREAS DETAIL

U-25



NOTES:

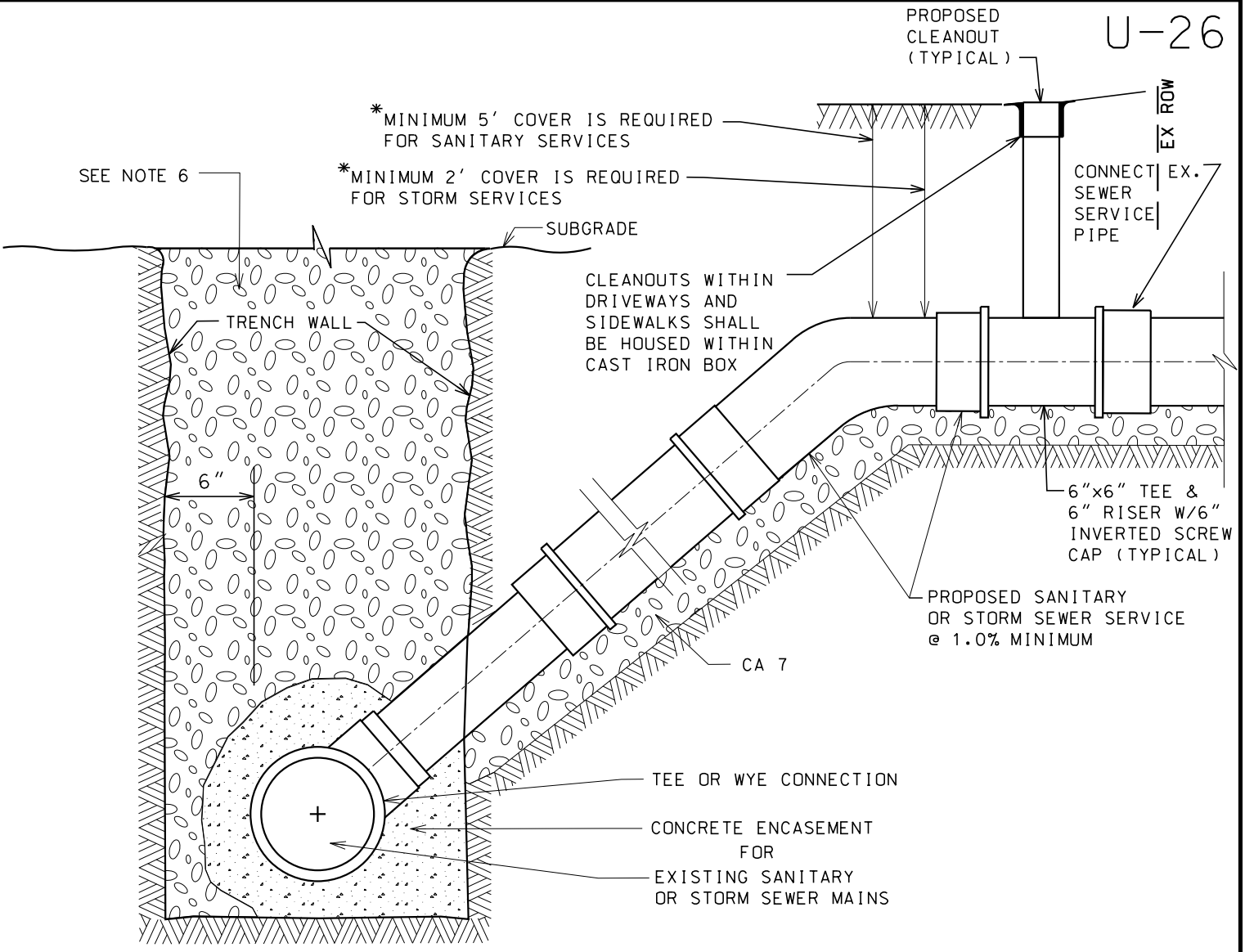
1. TRENCH BACKFILL UNDER A PAVED SURFACE OR WITHIN THE ZONE OF INFLUENCE (5' FROM EDGE OF PAVEMENT OR 5' FROM THE BACK OF CURB ON CURBED STREETS) SHALL CONSIST OF:
   a) UNDER NEW PAVEMENT:
      12" THICK PAVEMENT SUBGRADE (AGGREGATE CA 6 CAP) OVER AGGREGATE CA 7 (CRUSHED) TRENCH BACKFILL OR CONTROLLED LOW STRENGTH MATERIAL (CLSM) MIX 1 (ONLY IF REQUIRED BY VILLAGE ENGINEERING)
   b) UNDER EXISTING PAVEMENT:
      SAME AS 'a' ABOVE
   c) UNDER PRIVATELY OWNED PAVEMENT:
      SAME AS 'a' ABOVE.
2. ALL MATERIALS SHALL BE PROPERLY COMPACTED PER SPECIFICATIONS (INUNDATION OR WATER JETTING IS NOT ALLOWED).
3. ALL TRENCH EXCAVATIONS SHALL MEET OSHA REQUIREMENTS.
4. BEDDING MATERIAL FOR PVC PIPE INSTALLATION SHALL COMPLY WITH ASTM D-2321.
5. IF APPROVED BY VILLAGE ENGINEERING, A ONE (1) INCH THICK STEEL PLATE SHALL BE PROVIDED AND MAINTAINED BY CONTRACTOR UNTIL THE SURFACE RESTORATION IS COMPLETE. THE PLATE SHALL BE PROTECTED FROM SLIDING AND PROVIDED WITH BITUMINOUS RAMPS IF REQUIRED BY VILLAGE ENGINEERING.
6. PRIOR TO PLACEMENT OF PAVEMENT MATERIALS, THE EXISTING EXPOSED EDGES SHALL BE SAWCUT TO PROVIDE A SMOOTH CLEAN EDGE, FREE OF LOOSE MATERIAL.
7. THE PLACEMENT OF PAVEMENTS SHALL NOT BE ALLOWED WITHOUT PRIOR APPROVAL BY VILLAGE ENGINEERING.

REVISED: 3-15-22

NOT TO SCALE

UTILITY TRENCH IN PAVEMENT AREAS DETAIL

U-26



NOTES:

1. FOR PROPOSED SEWER SERVICES 10" DIA. AND UNDER AND CONNECTION TO EXISTING SEWER PIPES SMALLER THAN 18" DIA., A NEW FITTING (WYE, TEE) INSERT SHALL BE PROVIDED.

2. FOR PROPOSED SEWER SERVICES 10" DIA. AND UNDER AND CONNECTION TO EXISTING PIPES 18" DIA. AND LARGER, USE A BOOT CONNECTION. (INSERTA TEE)

3. FOR PROPOSED SEWER SERVICES OVER 10" DIA., A MANHOLE MUST BE INSTALLED.

4. FOR PROPOSED STORM OR SANITARY SEWER SERVICES, ENCASE ALL CONNECTIONS IN LOW STRENGTH CONCRETE TO PREVENT THE FITTINGS FROM ROTATING.

5. FOR TRENCHES WITHIN AN EXISTING PAVED SURFACE AREA OR WITHIN THE ZONE OF INFLUENCE, USE CA 7 CRUSHED AGGREGATE OR CONTROLLED LOW STRENGTH MATERIAL (CLSM) MIX 1 (ONLY IF REQUIRED BY VILLAGE ENGINEERING). USE EXCAVATED MATERIAL IN ALL OTHER AREAS.

6. ALL TRENCH EXCAVATIONS SHALL MEET OSHA REQUIREMENTS.

7. STAMP OR SAWCUT ON THE CURB (OR PAVEMENT SURFACE AS DIRECTED BY VILLAGE ENGINEERING) ALL NEW SERVICE LOCATIONS WITH "S" (SANITARY) OR "ST" (STORM) RESPECTIVELY.

8. PIPE MATERIAL:PVC SDR 26, ASTM D2241.

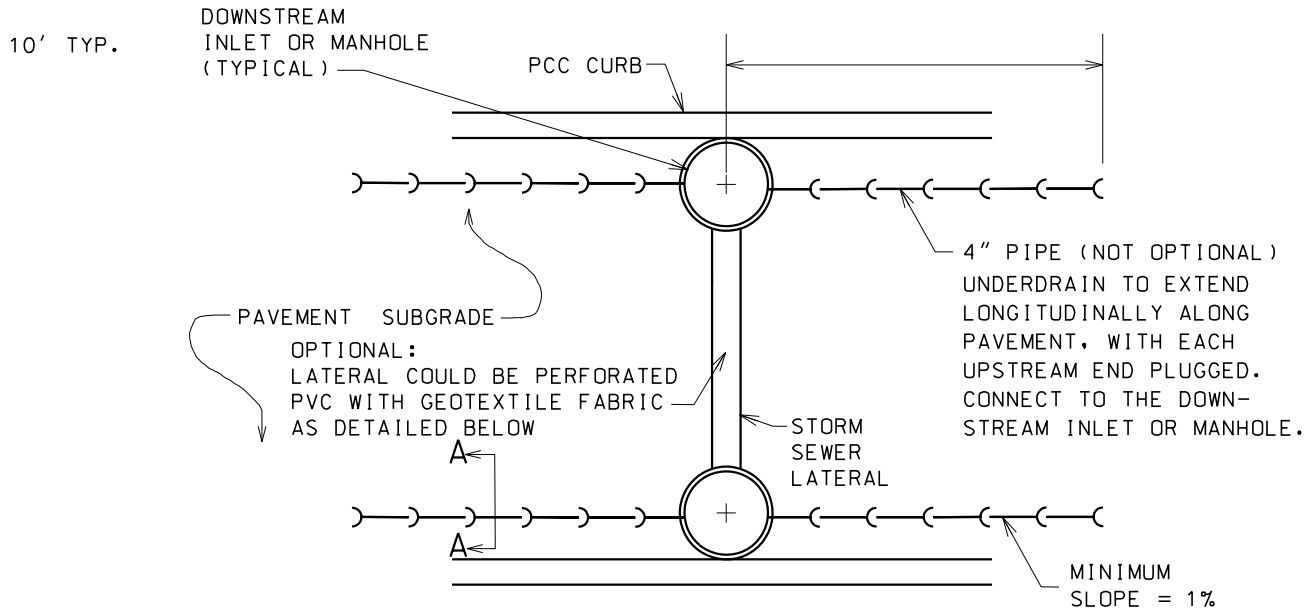
9. LOCATE CLEANOUT AS CLOSE TO THE PROPERTY LINE AS POSSIBLE.

* OR APPROVED BY VILLAGE

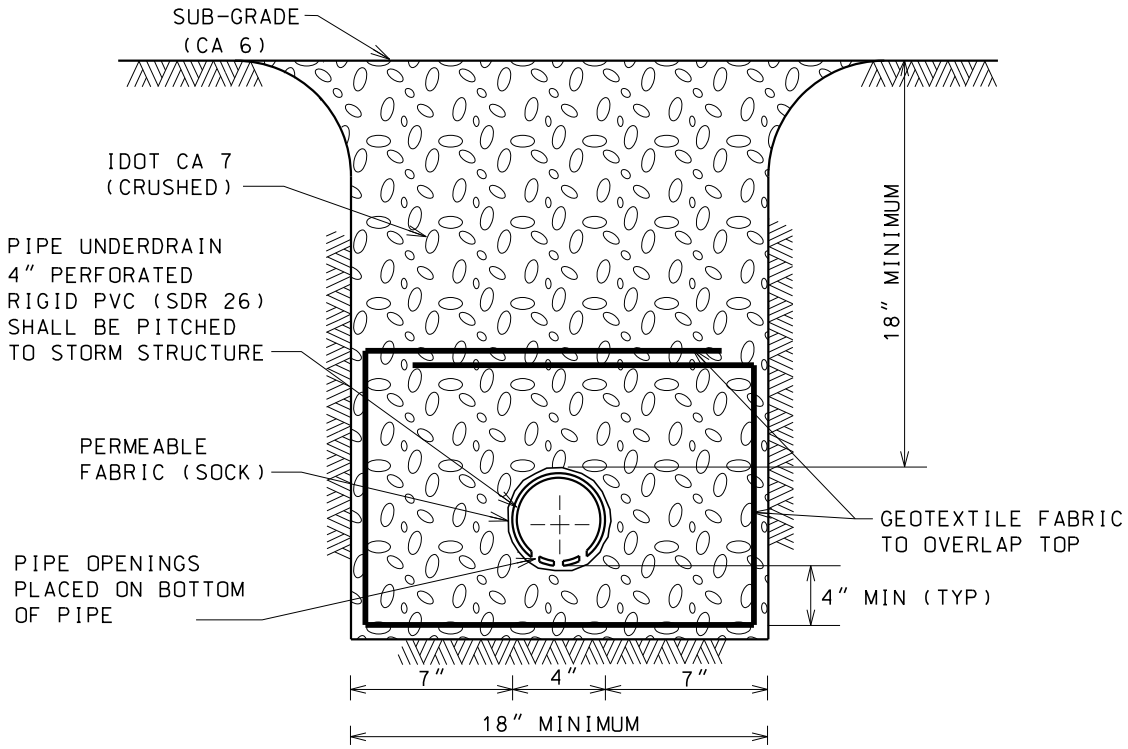
NOT TO SCALE

NEW SEWER SERVICE DETAIL

REVISED: 3-15-22



PIPE UNDERDRAIN PLAN VIEW



SECTION A-A

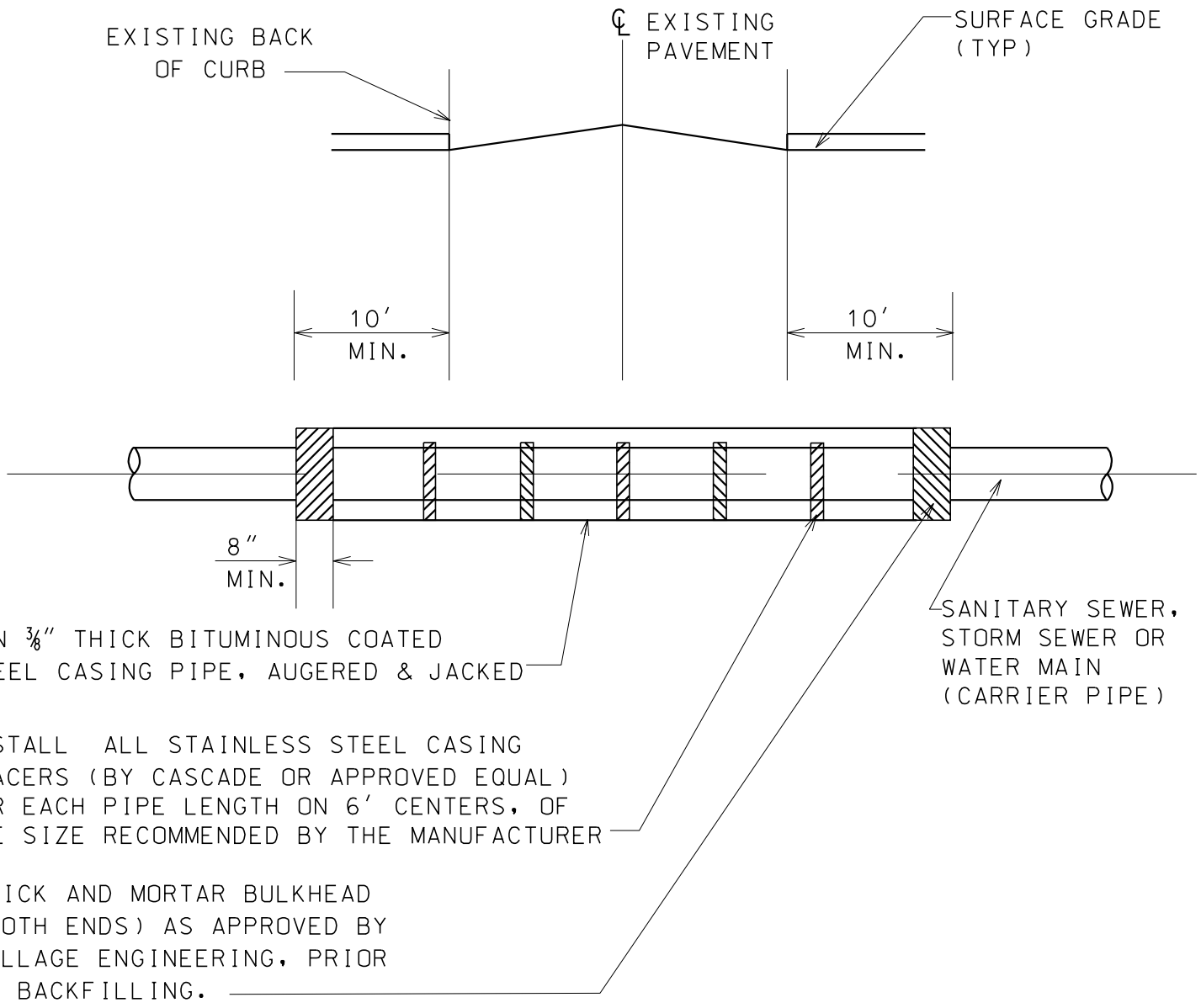
NOT TO SCALE

NOTE:

UNDERDRAIN TO BE INSTALLED IF INDICATED ON PLANS AND/OR REQUESTED BY VILLAGE ENGINEERING.

REVISED: 3-15-22

PIPE UNDERDRAIN DETAIL



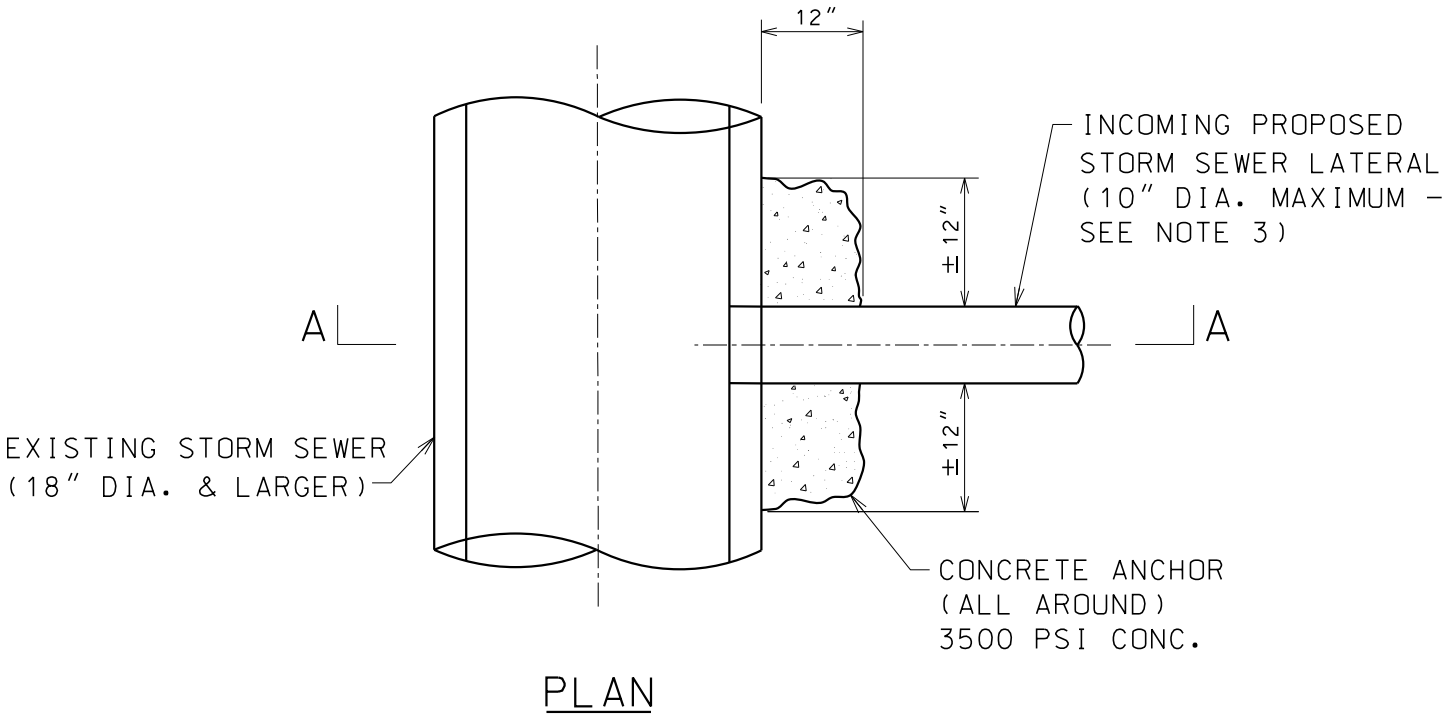
NOTES:

1. CASING PIPE IS REQUIRED UNDER ALL EXISTING ROADWAYS, OR AS OTHERWISE DIRECTED BY VILLAGE ENGINEERING WHERE OPEN CUTS ARE NOT PERMITTED, EXCEPT FOR WATER SERVICE LINES UP TO 2″ IN DIAMETER.
2. WATER MAIN CASING SPACERS SHALL BE RESTRAINED IN POSITION.
3. THE INSIDE DIAMETER OF THE CASING PIPE SHALL BE DETERMINED BY CONTRACTOR BUT IN NO CASE SHALL IT BE LESS THAN 8″ LARGER THAN THE DIAMETER OF THE CARRIER PIPE TO ALLOW AMPLE SPACE FOR BELLS, AND CARRIER PIPE SLOPE (FOR GRAVITY PIPE).
4. ALL AUGER PITS TO BE BACKFILLED WITH IDOT CA 7 (CRUSHED) AGGREGATE MATERIAL.

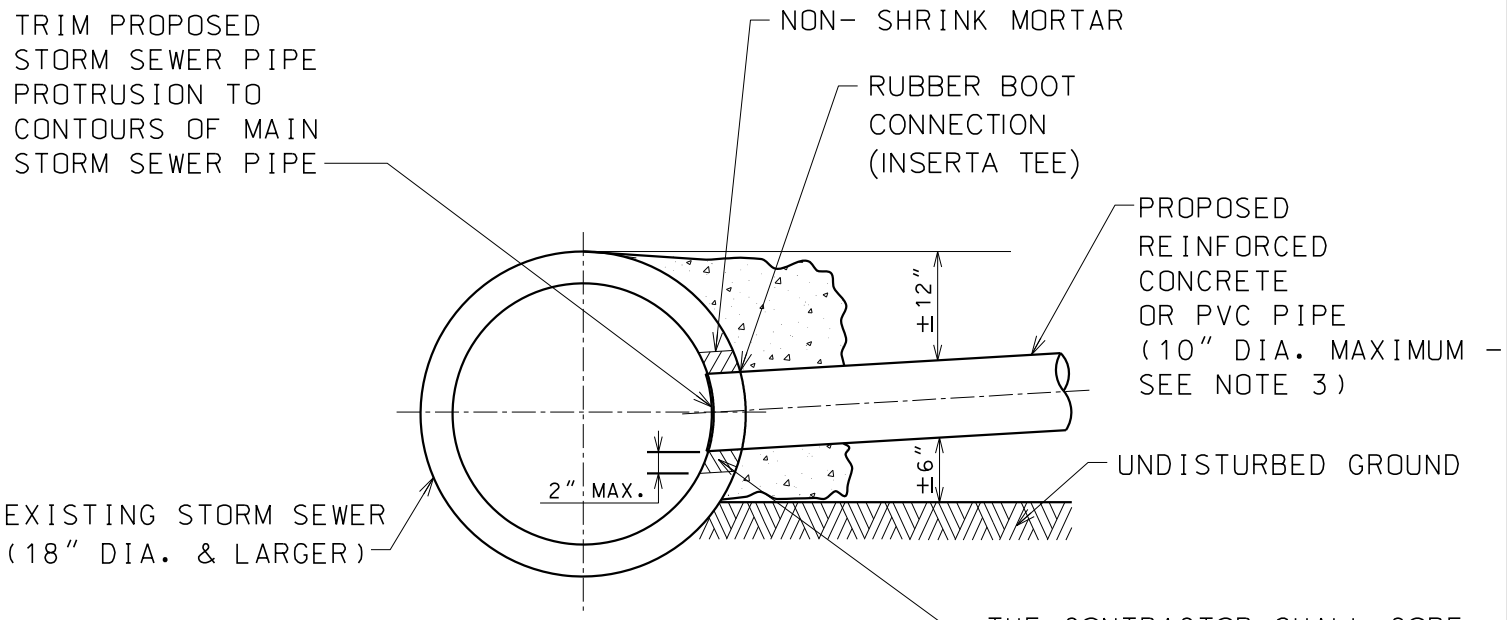
NOT TO SCALE

REVISED: 3-15-22

CASING PIPE DETAIL



PLAN



SECTION A-A

NOTES:

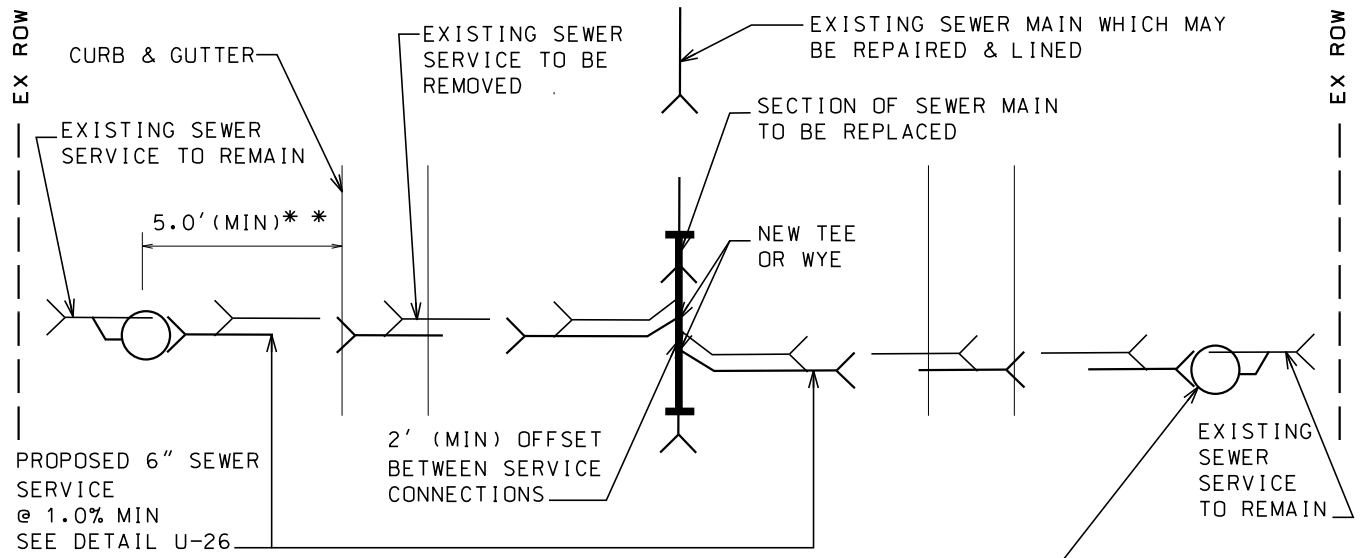
1. FOR EXISTING STORM SEWER PIPES SMALLER THAN 18" DIA. A NEW FITTING (WYE, TEE) INSERT SHALL BE PROVIDED. (SEE DETAIL U30)
2. FOR CONNECTION OF PVC SEWER LATERALS TO EXISTING PVC STORM SEWER A NEW FITTING (WYE, TEE) INSERT SHALL BE PROVIDED UNLESS APPROVED OTHERWISE BY VILLAGE ENGINEERING.
3. FOR STORM SEWER LATERALS OVER 10" DIA., CONSTRUCTION OF NEW STORM SEWER MANHOLE AT CONNECTION POINT SHALL BE REQUIRED UNLESS APPROVED OTHERWISE BY VILLAGE ENGINEERING.

NOT TO SCALE

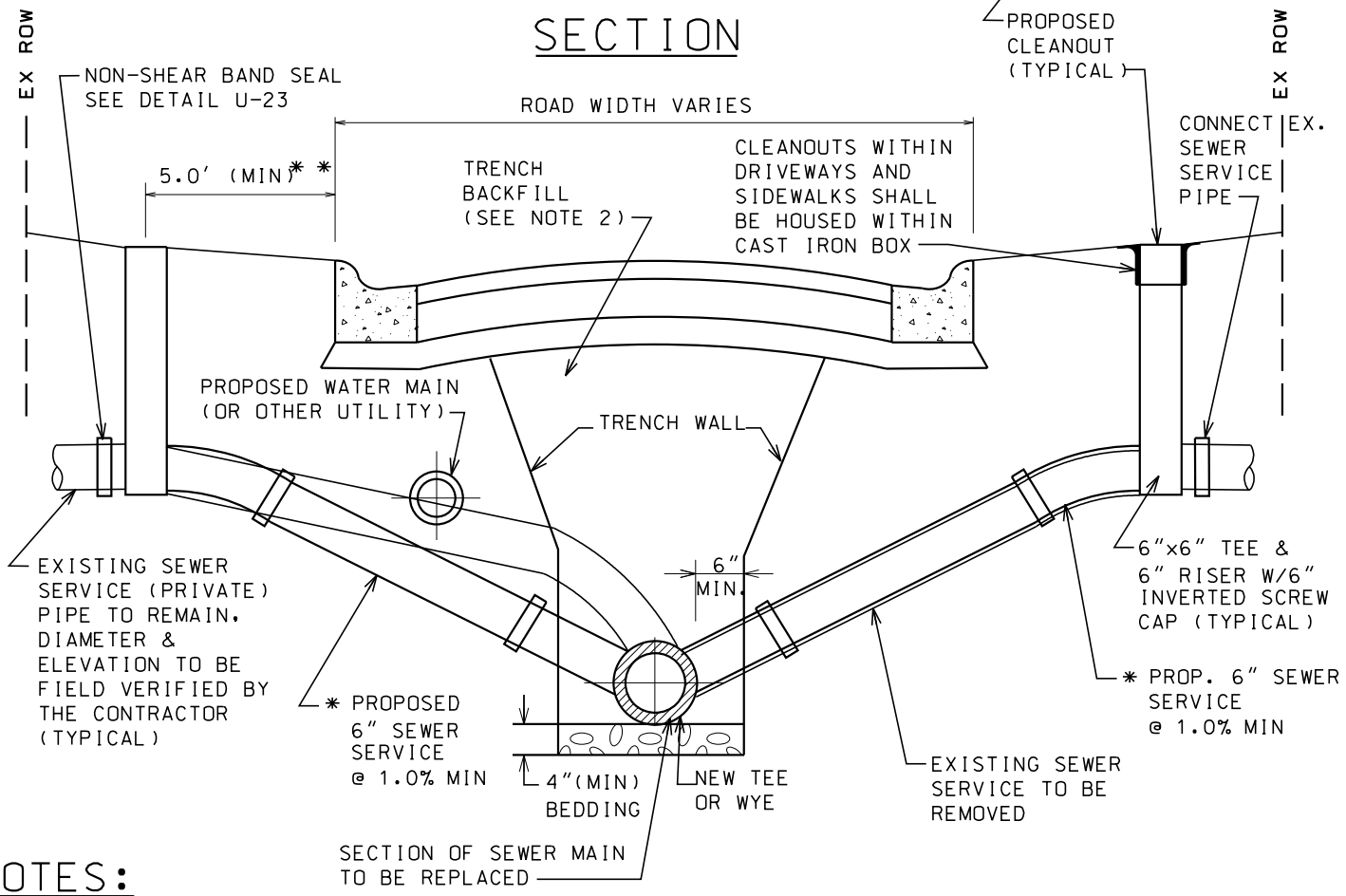
STORM SEWER CONNECTION TO EXISTING PIPE DETAIL

REVISED: 3-15-22

PLAN VIEW



SECTION



NOTES:

1. FOR REPLACED SEWER SERVICES, ENCASE ALL CONNECTIONS IN LOW STRENGTH CONCRETE TO PREVENT THE FITTINGS FROM ROTATING.
2. FOR TRENCHES WITHIN AN EXISTING PAVED SURFACE AREA OR WITHIN THE ZONE OF INFLUENCE, USE CA 7 CRUSHED AGGREGATE OR CONTROLLED LOW STRENGTH MATERIAL (CLSM). MIX 1 (ONLY IF REQUIRED BY VILLAGE ENGINEERING). USE FA 6 AGGREGATE FOR TRENCH BACKFILL MATERIAL IN ALL OTHER AREAS.
3. STAMP OR SAWCUT ON THE CURB (OR PAVEMENT SURFACE AS DIRECTED BY VILLAGE ENGINEERING) ALL NEW SERVICE LOCATIONS WITH "S" (SANITARY) OR "ST" (STORM) RESPECTIVELY. ANY ABANDONMENT/REMOVAL OF SERVICE REQUIRES REMOVAL OF THE EXISTING STAMPED OR SAWCUT MARKING AT THE TIME OF ABANDONMENT/REMOVAL.

* PIPE MATERIAL:PVC SDR 26, ASTM D2241

* * LOCATE CLEANOUT AS CLOSE TO THE PROPERTY LINE AS POSSIBLE

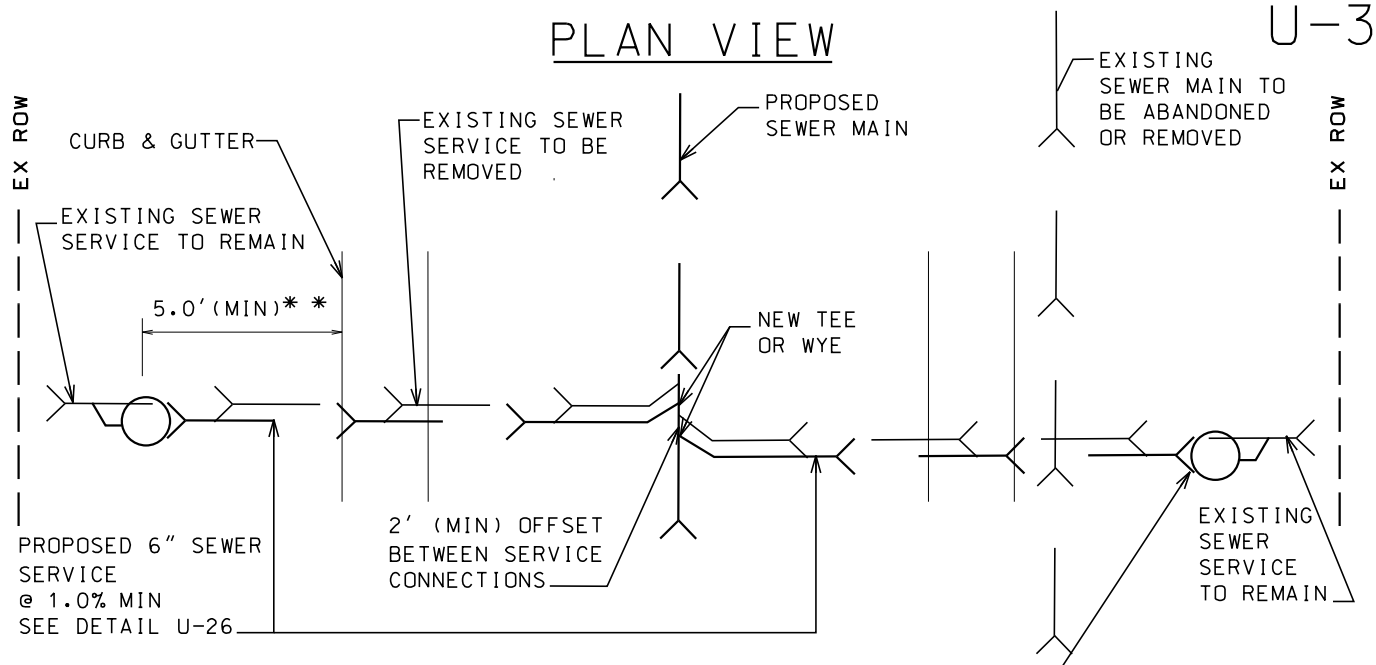
REVISED: 3-15-22

NOT TO SCALE

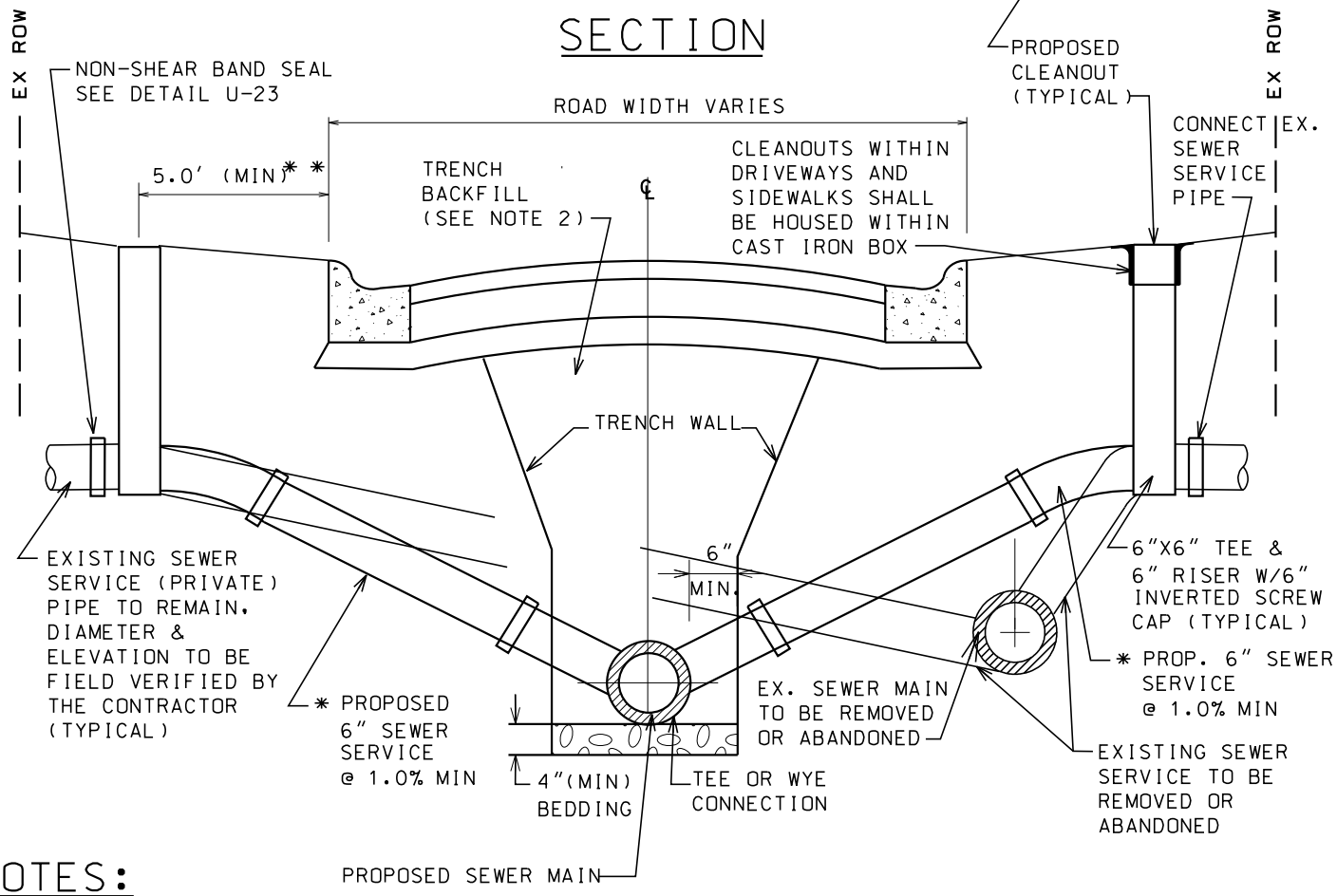
SEWER SERVICE REPLACEMENT DETAIL

U-31

PLAN VIEW



SECTION



NOTES:

1. FOR REPLACED SEWER SERVICES, ENCASE ALL CONNECTIONS IN LOW STRENGTH CONCRETE TO PREVENT THE FITTINGS FROM ROTATING.
2. FOR TRENCHES WITHIN AN EXISTING PAVED SURFACE AREA OR WITHIN THE ZONE OF INFLUENCE, USE CA 7 CRUSHED AGGREGATE OR CONTROLLED LOW STRENGTH MATERIAL (CLSM). MIX 1 (ONLY IF REQUIRED BY VILLAGE ENGINEERING). USE FA 6 AGGREGATE FOR TRENCH BACKFILL MATERIAL IN ALL OTHER AREAS.
3. STAMP OR SAWCUT ON THE CURB (OR PAVEMENT SURFACE AS DIRECTED BY VILLAGE ENGINEERING) ALL NEW SERVICE LOCATIONS WITH "S" (SANITARY) OR "ST" (STORM) RESPECTIVELY. ANY ABANDONMENT/REMOVAL OF SERVICE REQUIRES REMOVAL OF THE EXISTING STAMPED OR SAWCUT MARKING AT THE TIME OF ABANDONMENT/REMOVAL.

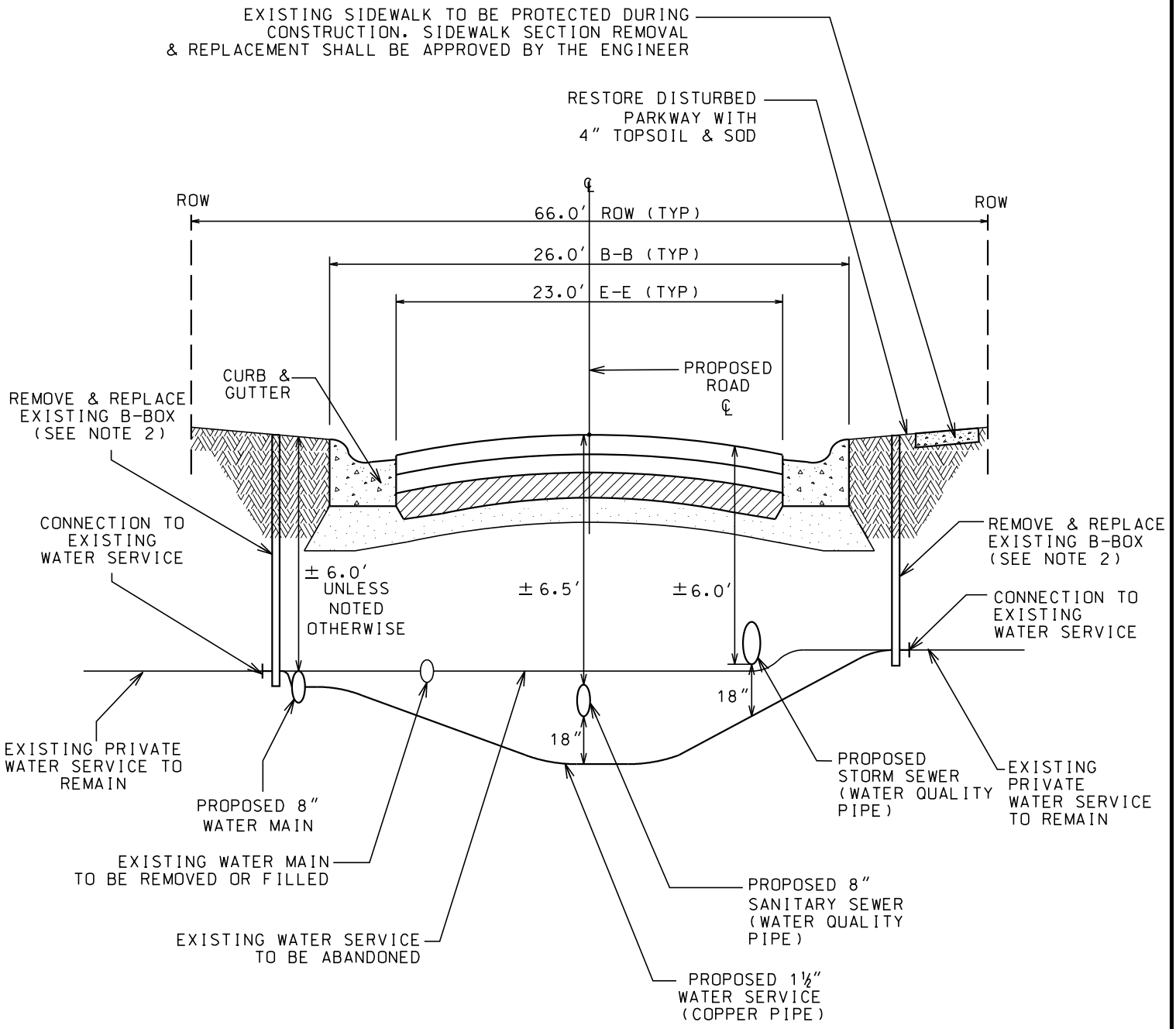
* PIPE MATERIAL:PVC SDR 26, ASTM D2241

* * LOCATE CLEANOUT AS CLOSE TO THE PROPERTY LINE AS POSSIBLE

REVISED: 3-15-22

NOT TO SCALE

SEWER MAIN & SEWER SERVICE REPLACEMENT DETAIL



NOTES:

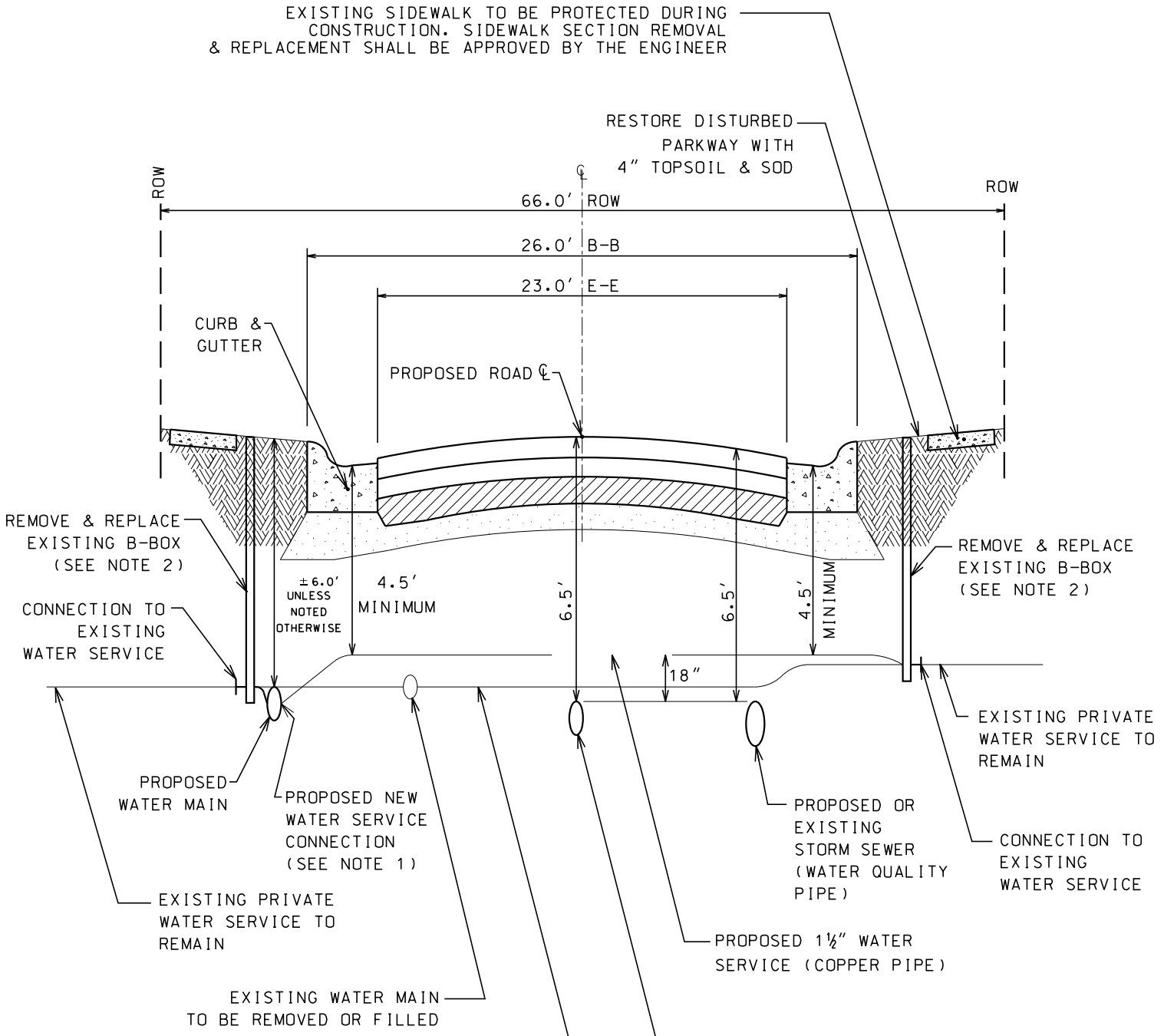
1. SEE VOG STANDARD DETAIL U-20 FOR ADDITIONAL WATER SERVICE CONNECTION INFORMATION.

2. EXISTING B-BOX TO BE LOCATED BY THE VILLAGE OF GLENVIEW PUBLIC WORKS DEPARTMENT.

NOT TO SCALE

WATER SERVICE REPLACEMENT DETAIL #1

REVISED: 3-15-22



NOTES:

1. SEE VOG STANDARD DETAIL U-20 FOR ADDITIONAL WATER SERVICE CONNECTION INFORMATION.

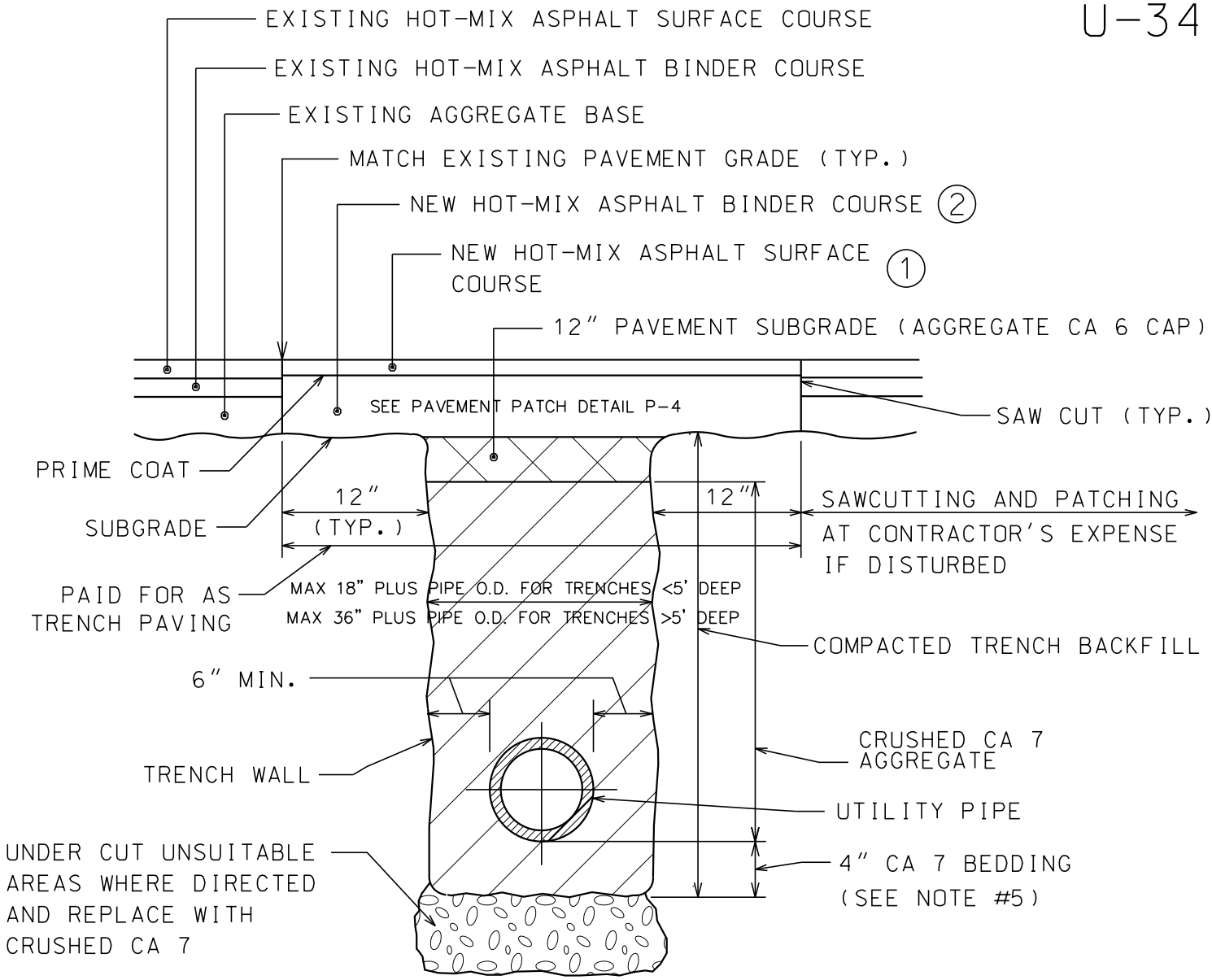
2. EXISTING B-BOX TO BE LOCATED BY THE VILLAGE OF GLENVIEW PUBLIC WORKS DEPARTMENT.

NOT TO SCALE

WATER SERVICE REPLACEMENT DETAIL #2

REVISED: 3-15-22

U-34



NOTES:

1. THE TRENCH SHALL BE BACKFILLED WITH COURSE AGGREGATE CA 7 CRUSHED MATERIAL. TRENCH SPOIL OR EXCAVATED MATERIAL SHALL BE DISCARDED BY THE CONTRACTOR, AT HIS EXPENSE.
2. EXCAVATIONS SHALL BE PROTECTED BY BARRICADES WITH FLASHING LIGHTS. A ONE (1) INCH STEEL PLATE PROVIDED AND MAINTAINED BY THE CONTRACTOR AT LOCATIONS WHERE ADJUSTMENTS ARE LOCATED IN TRAVEL LANES UNTIL THE SURFACE RESTORATION IS COMPLETE. THE PLATE SHALL BE PROTECTED FROM SLIDING AND PROVIDED WITH BITUMINOUS RAMPS AS REQUIRED. VILLAGE'S APPROVAL FOR STEEL PLATE USAGE SHALL BE OBTAINED.
3. PRIOR TO THE PLACING OF HOT-MIX ASPHALT BINDER COURSE AND HOT-MIX ASPHALT SURFACE COURSE, THE EXPOSED EDGES OF ALL EXISTING PAVEMENT SHALL BE SAW CUT TO PROVIDE A SMOOTH, CLEAN EDGE, FREE OF LOOSE MATERIAL.
4. ALL TRENCH EXCAVATIONS SHALL MEET OSHA REQUIREMENTS.
5. BEDDING MATERIAL FOR PVC PIPE INSTALLATION SHALL COMPLY WITH ASTM D2321.

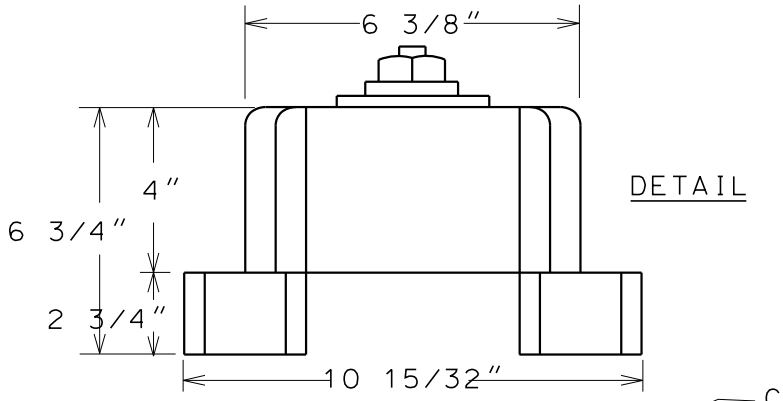
HOT-MIX ASPHALT MIXTURE REQUIREMENTS

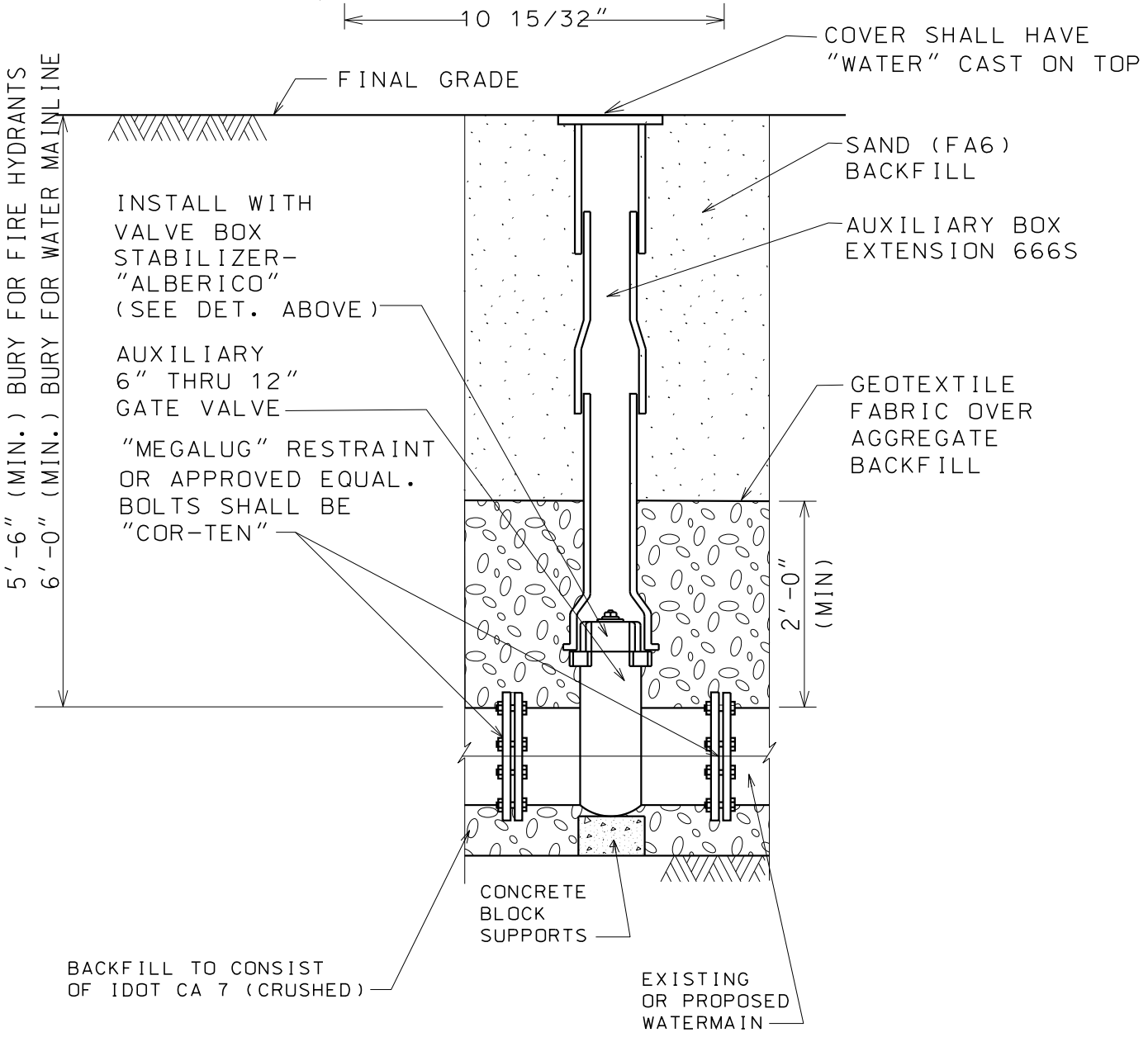
NO.	ITEM	UNIT WEIGHT LBS/SQ YD/IN	MIN. THICKNESS INCHES
1	HOT-MIX ASPHALT SURFACE COURSE MIX "D", N50/PG 64-22	112	
2	HOT-MIX ASPHALT BINDER COURSE IL-19, N50/PG 64-22	112	

NOT TO SCALE

HMA TRENCH PAVING DETAIL

REVISED: 3-15-22





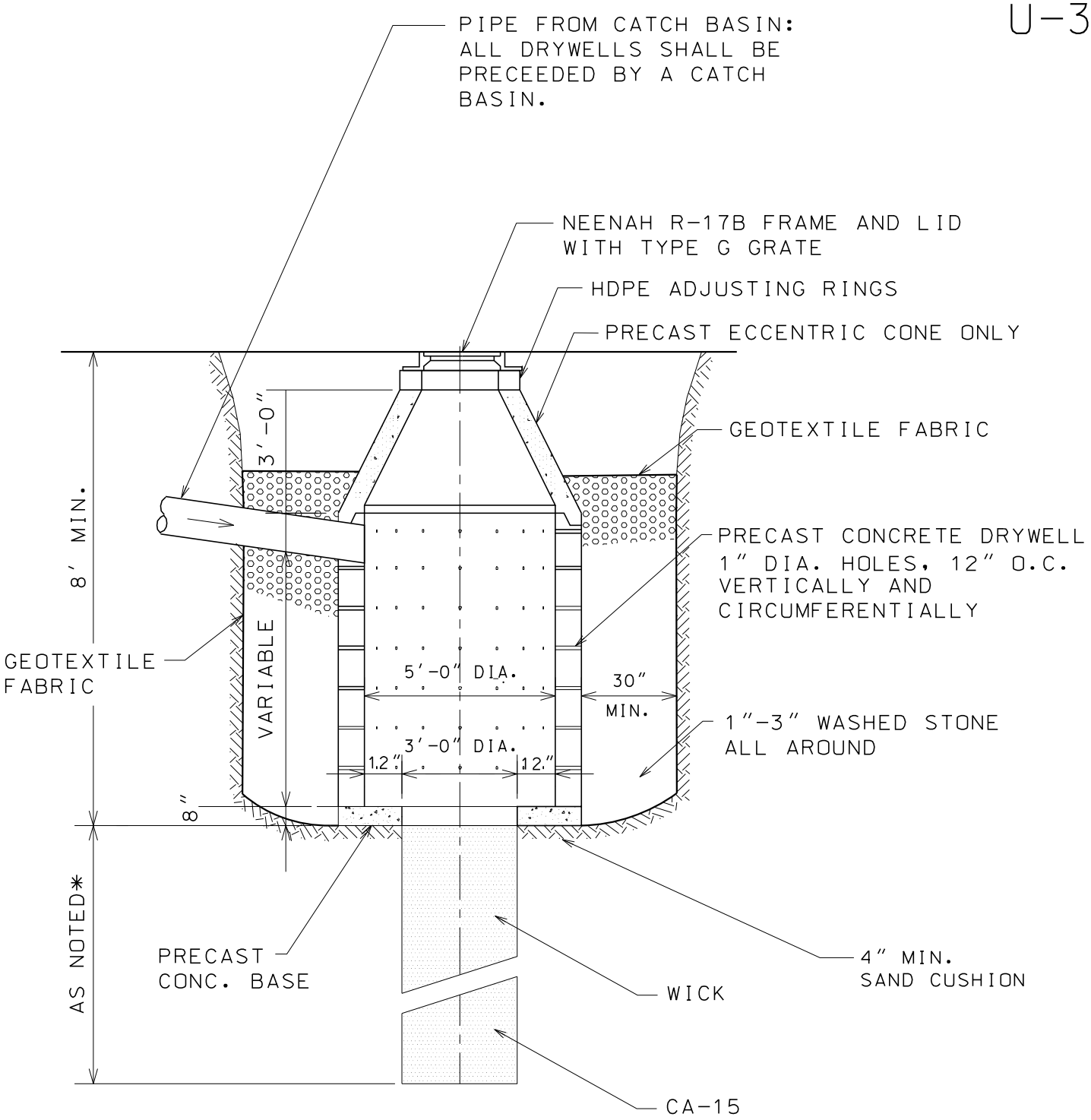
NOTES:

1. ONLY AUXILIARY BOX EXTENSIONS ARE PERMITTED, NO ADAPTERS OR RISERS.
2. ALL PARTS OF AUXILIARY BOX INCLUDING THE COVER, SHALL BE CAST IRON.

NOT TO SCALE

AUXILIARY BOX & VALVE DETAIL

REVISED: 3-15-22



* WICK SHALL BE CONSTRUCTED TO A DEPTH REACHING THE WATER TABLE, OR SANDY/GRANULAR SOILS OR 20 FEET BELOW STRUCTURE, WHICHEVER IS LESS.

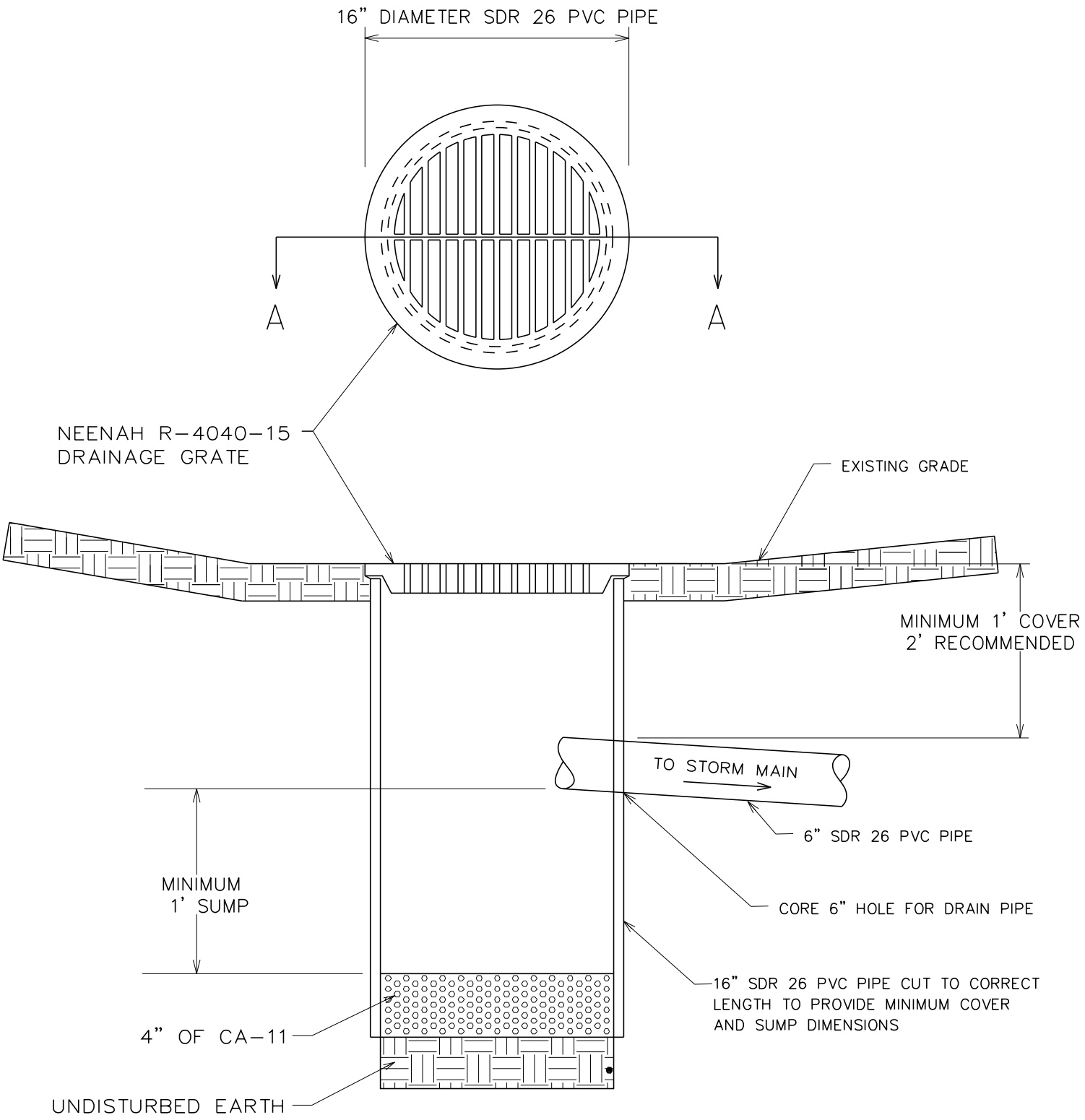
NOTES:

1. STRUCTURE MUST CONFORM TO ASTM C-478.
2. STRUCTURE SECTIONS SHALL BE TONGUE AND GROOVED.
3. NON-PRECAST OPENINGS SHALL BE CORED.
4. USE STEEL REINFORCED POLYURETHANE STEPS (12" WIDE), 16" O.C. VERTICAL
5. TWO (2) MAX. PRECAST CONCRETE OR PLASTIC ADJUSTING RINGS (8" MAX.), SEE DETAIL U-1.

NOT TO SCALE

DEEP DRYWELL DETAIL

REVISED: 3-15-22



SECTION A-A

NOT TO SCALE

PVC YARD DRAIN DETAIL

REVISED: 3-15-22