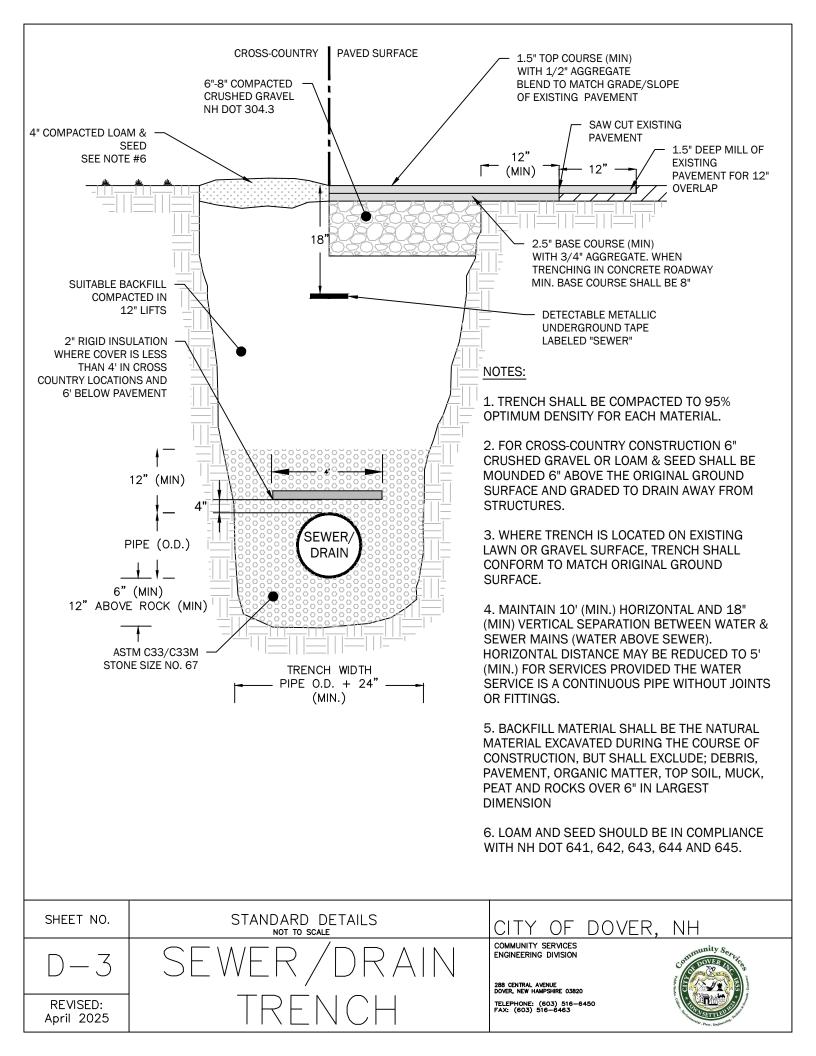
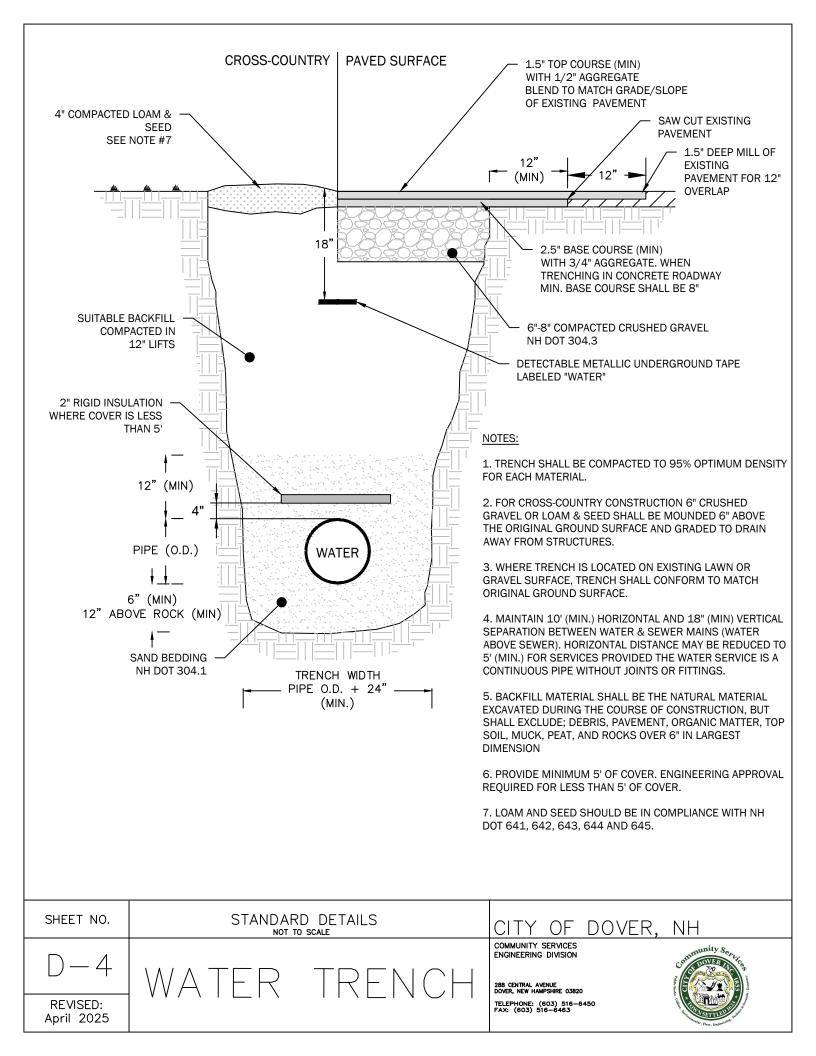
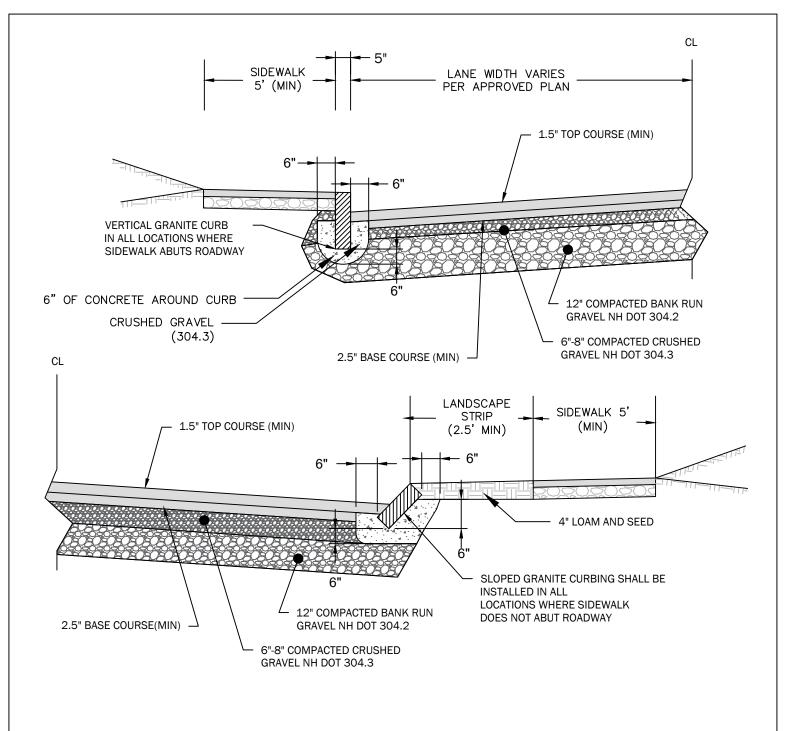


- 1. SIGN SHALL HAVE BLACK LETTERS ON A WHITE BACKGROUND
- 2. SIGN SHALL BE WEATHER RESISTANT AND SECURED TO THE GROUND
- 3. HOURS ON THE SIGN SHALL COMPLY WITH ALL PLANNING BOARD CONDITIONS OF APPROVAL.

SHEET NO.	STANDARD DETAILS NOT TO SCALE	CITY OF DOVER, NH
D-2	CONSTRUCTION	COMMUNITY SERVICES ENGINEERING DIVISION
REVISED: April 2025	SIGN	288 CENTRAL AVENUE DOVER, NEW HAMPSHIRE 03820 TELEPHONE: (603) 516-6450 FAX: (603) 516-6463

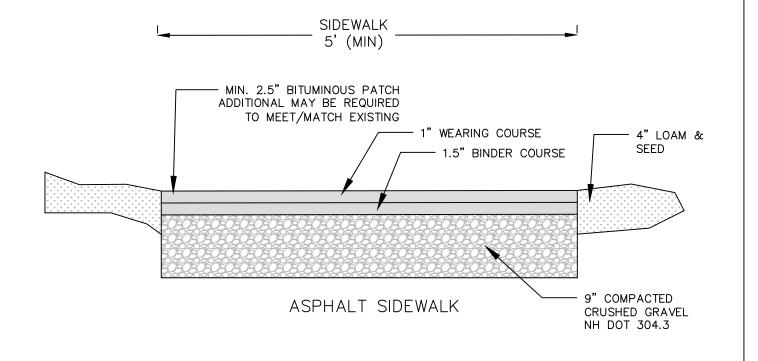


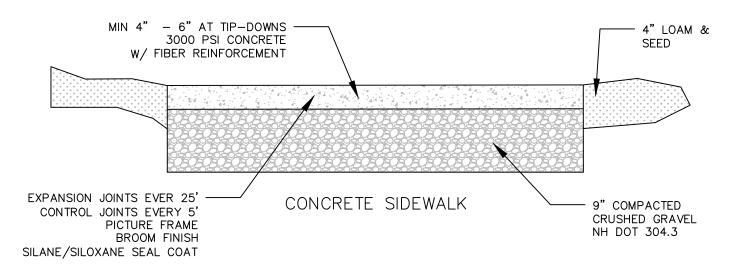




- 1. THIS DETAIL IS FOR GENERAL REVIEW PURPOSES ONLY, FINAL DESIGN SHALL BE BASED ON SPECIFIC SITE CONDITIONS AND APPROVED PLANS.
- 2. SIDEWALK LOCATION AND MATERIAL SHALL BE AS APPROVED BY THE CITY OF DOVER.

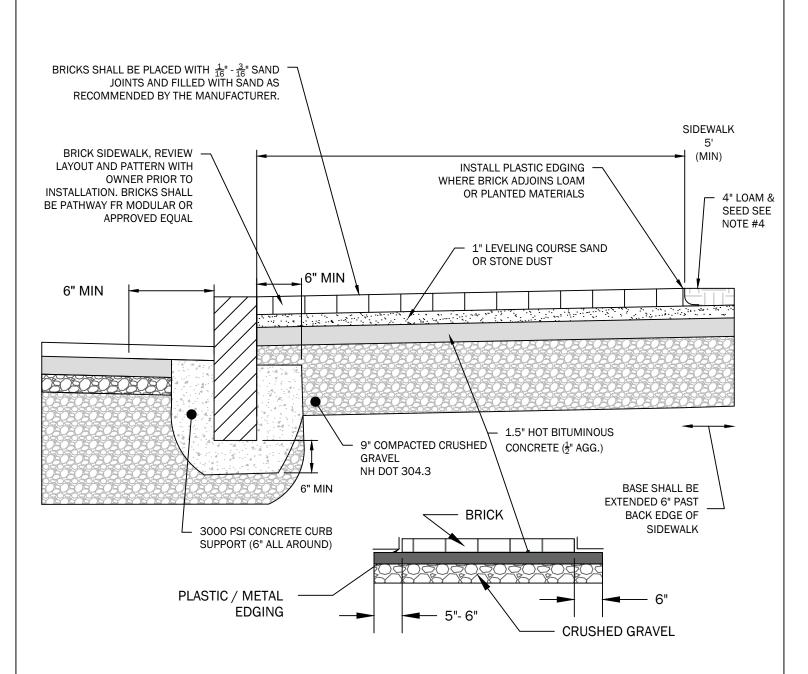
SHEET NO.	STANDARD DETAILS NOT TO SCALE	CITY OF DOVER, NH
D-5	PUBLIC ROAD	COMMUNITY SERVICES ENGINEERING DIVISION  288 CENTRAL AVENUE
REVISED: April 2025	CROSS SECTION	DOVER, NEW HAMPSHIRE 03820 TELEPHONE: (603) 516-6450 FAX: (603) 516-6463





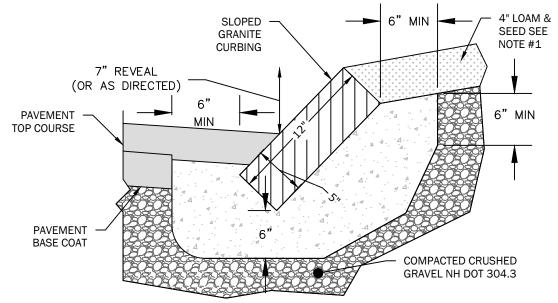
- 1. MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF DOVER STANDARDS SPECIFICATIONS.
- 2. SIDEWALK AND DRIVEWAY WIDTHS SHALL BE EQUAL TO EXISTING WIDTHS OR AS APPROVED AND SHALL SLOPE TO MATCH EXISTING ELEVATIONS.
- 3. BASE FOR THE SIDEWALKS AND DRIVEWAYS SHALL BE 9-INCHES OF CRUSHED GRAVEL.

SHEET NO.	STANDARD DETAILS NOT TO SCALE	CITY OF DOVER, NH
D-6	ASPHALT &	COMMUNITY SERVICES ENGINEERING DIVISION  288 CENTRAL AVENUE DOVER, NEW HAMPSHIRE 0.3820
REVISED: April 2025	CONCRETE SIDEWALK	TELEPHONE: (603) 516-6450 FAX: (603) 516-6463



- 1. MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF DOVER STANDARDS SPECIFICATIONS.
- SIDEWALK AND DRIVEWAY WIDTHS SHALL BE EQUAL TO EXISTING WIDTHS OR AS APPROVED AND SHALL SLOPE TO MATCH EXISTING ELEVATIONS.
- 3. BASE FOR THE SIDEWALKS AND DRIVEWAYS SHALL BE 9-INCHES OF CRUSHED GRAVEL.
- 4. LOAM AND SEED SHOULD BE IN COMPLIANCE WITH NH DOT 641, 642, 643, 644 AND 645.

SHEET NO.	STANDARD DETAILS NOT TO SCALE	CITY OF DOVER, NH
D-7	BRICK	COMMUNITY SERVICES ENGINEERING DIVISION  288 CENTRAL AVENUE
REVISED: April 2025	SIDEWALK	DOVER, NEW HAMPSHIRE 03820 TELEPHONE: (603) 516-6450 FAX: (603) 516-6463



RADIUS	MAX LENGTH
< 21' 12' 22' - 28' 29' - 35' 36' - 42' 43' - 49' 50' - 56' 57' - 60' OVER 60'	USE CURVED CURB 3' 4' 5' 6' 7' 8' 9' 10'

## SLOPED GRANITE CURB

# NOTES:

- 1. LOAM AND SEED SHOULD BE IN COMPLIANCE WITH NH DOT 641, 642, 643, 644 AND 645.
- 2. CONCRETE CURB SUPPORT SHOULD BE SET  $\frac{1}{2}$ " BELOW THE TOP OF THE PAVEMENT BASE COURSE.

COMPACTED CRUSHED GRAVEL NHDOT 304.3

5" VERTICAL GRANITE **CURBING** 7" REVEAL (OR AS DIRECTED) 4" LOAM & PAVEMENT SEED SEE **TOP COURSE** NOTE #1 PAVEMENT BASE COURSE 6" 3000 PSI CONCRETE **CURB SUPPORT** 

VERTICAL GRANITE CURB

SHEET NO.

STANDARD DETAILS

CITY OF DOVER, NH

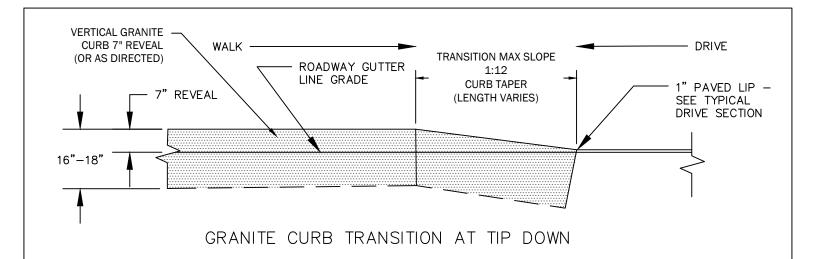
COMMUNITY SERVICES
ENGINEERING DIVISION

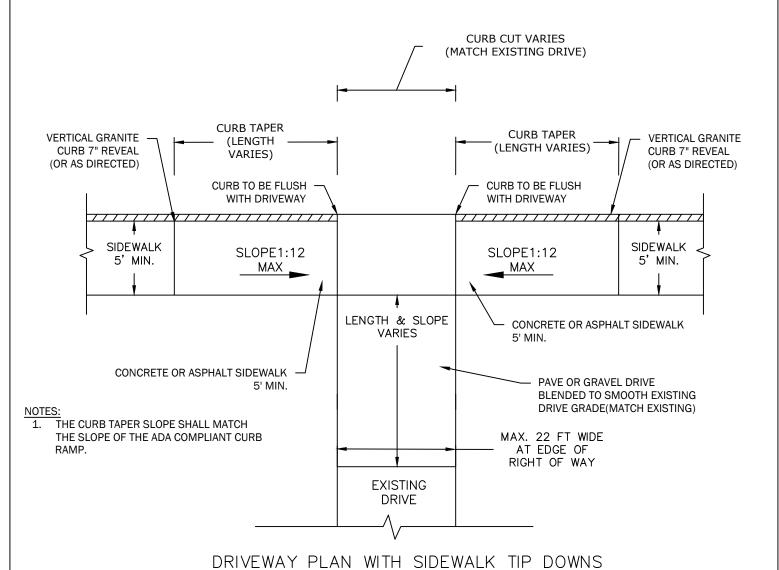
REVISED:
April 2025

STANDARD DETAILS

CITY OF DOVER, NH

288 CENTRAL AVENUE
DOVER, NEW HAMPSHIRE 03820
TELEPHONE: (603) 516-6450
FAX: (803) 516-6463





SHEET NO.

STANDARD DETAILS
NOT TO SCALE

CITY OF DOVER, NH

COMMUNITY SERVICES
ENGINEERING DIVISION

SIDEWALK TIP

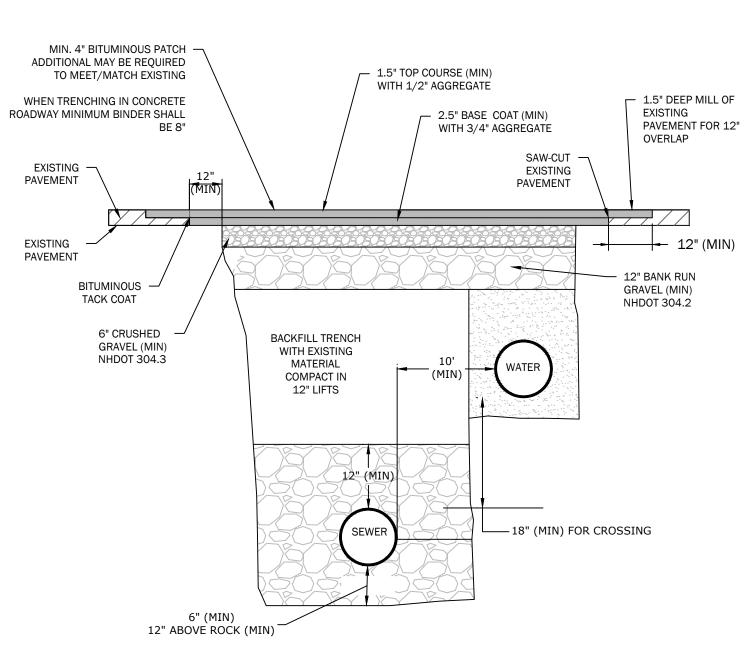
DOWN AT DRIVEWAY

April 2025

CITY OF DOVER, NH

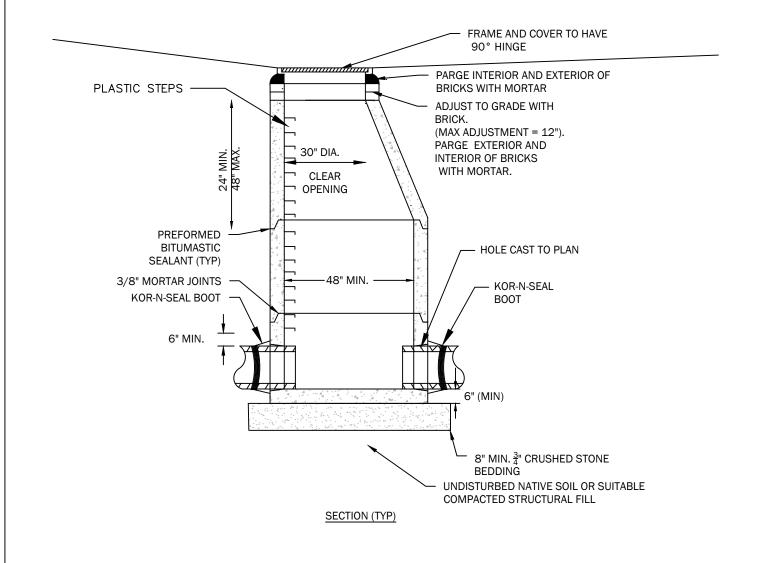
COMMUNITY SERVICES
ENGINEERING DIVISION

288 CENTRAL AVENUE
DOVER, NEW HAMPSHIRE 03820
FAX: (803) 516-6450
FAX: (803) 516-6463



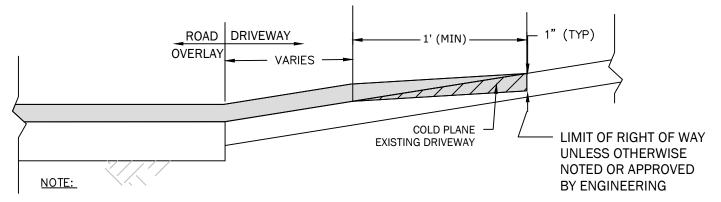
- 1. TRENCH SHALL BE COMPACTED TO 95% OPTIMUM DENSITY.
- 2. ALL WORK SHALL COMPLY WITH THE CITY OF DOVER CONSTRUCTION GUIDELINES AND PROCEDURES
- 3. MAINTAIN 10' (MIN.) HORIZONTAL AND 18" (MIN) VERTICAL SEPARATION BETWEEN WATER & SEWER MAINS (WATER ABOVE SEWER). HORIZONTAL DISTANCE MAY BE REDUCED TO 5' (MIN.) FOR SERVICES PROVIDED THE WATER SERVICE IS A CONTINUOUS PIPE WITHOUT JOINTS OR FITTINGS.

SHEET NO.	STANDARD DETAILS NOT TO SCALE	CITY OF DOVER, NH
D-10	TYPICAL	COMMUNITY SERVICES ENGINEERING DIVISION  288 CENTRAL AVENUE
REVISED: April 2025	TRENCH	DOVER, NEW HAMPSHIRE 03820 TELEPHONE: (603) 516-6450 FAX: (603) 516-6463



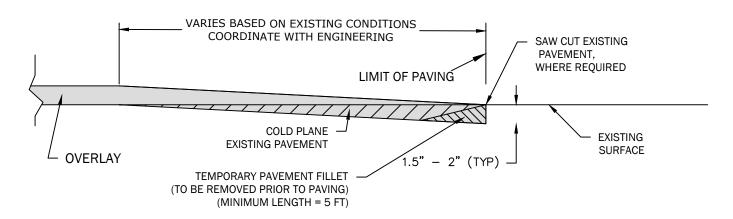
1. CORINGS TO BE SEPARATED BY 6" (MINIMUM) OF MONOLITHIC SECTION

SHEET NO.	STANDARD DETAILS NOT TO SCALE	CITY OF DOVER, NH
D-20	DRAIN	COMMUNITY SERVICES ENGINEERING DIVISION  288 CENTRAL AVENUE DOVER, NEW HAMPSHIRE 0.3820
REVISED: April 2025	MANHOLE	TELEPHONE: (603) 516–6450 FAX: (603) 516–6463

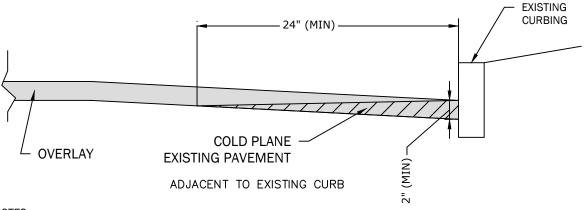


CONTRACTOR MAY SAWCUT DRIVEWAY TRANSITION AT HIS OPTION. PAVEMENT SHALL BE REMOVED AND REPLACED TO MATCH EXISTING.

#### ADJACENT TO EXISTING DRIVEWAY



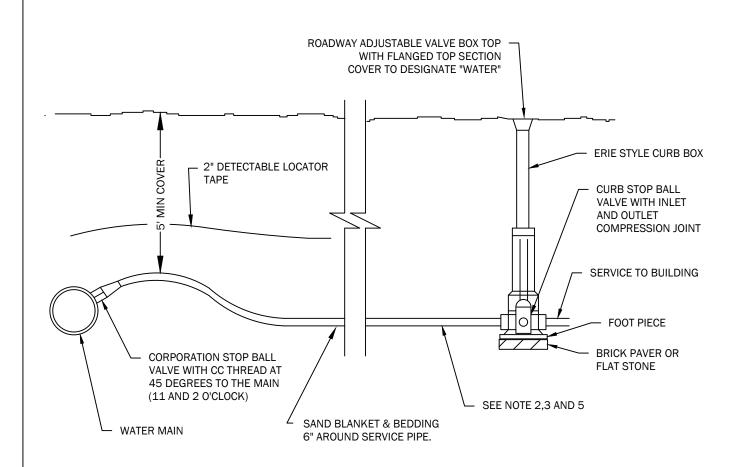
#### ADJACENT TO EXISTING PAVEMENT



#### NOTES:

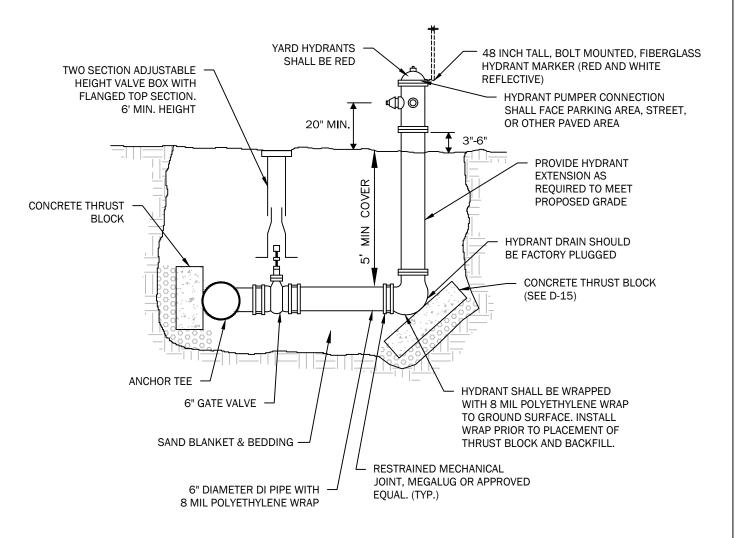
1. THE LENGTH OF THE TAPER MAY BE ADJUSTED AS ORDERED TO PROVIDE FOR VARYING FIELD CONDITIONS OR CHANGES IN SINGLE COURSE DEPTH.

SHEET NO.	STANDARD DETAILS	CITY OF DOVER, NH
D-12	PAVEMENT	COMMUNITY SERVICES ENGINEERING DIVISION  288 CENTRAL AVENUE DOVER NEW HAMPSHIRE 03820
REVISED: April 2025	OVERLAY	TELEPHONE: (603) 516-6450 FAX: (603) 516-6463



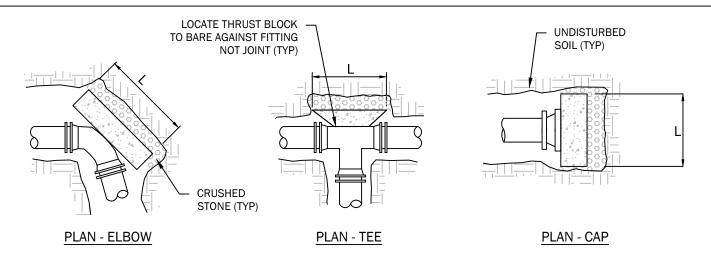
- 1. ALL WATER LINES 4" OR GREATER SHALL BE DUCTILE IRON WITH A ZINC COATED 8 MIL POLYETHYLENE WRAP, INCLUDING TEE AND OTHER CONNECTIONS.
- 2. WATER SERVICE LINES SHALL BE COPPER TUBING (TYPE K) BETWEEN MAIN AND CURB STOP.
- 3. SERVICE BETWEEN CURB STOP AND BUILDING MAY BE (BLUE OR BLACK) CTS SDR 9 PLASTIC POLYETHYLENE RATED FOR 250 psi.
- 4. CAM-LOCK REQUIRED FOR CTS OR IPS, MJ ADAPTER REQUIRED FOR HDPE
- $5. \ \ \text{ALL SERVICES SHALL BE 1". PROVIDE 1" TO 3/4" REDUCER COUPLING WHERE EXISTING SERVICES ARE 3/4", SUBSIDIARY. \\$
- 6. APPROVED WATER SERVICE MATERIALS INCLUDE:
  - 1"- COPPER, CTS
  - 2"- CTS, HDPE, IPS
- 7. ALL SADDLES USED AS SPECIFIED SHALL HAVE DOUBLE STAINLESS STEEL STRAPS.
- 8. TAPS TO BE MADE AT APPROX. 2:00 AND 10:00.

SHEET NO.	STANDARD DETAILS NOT TO SCALE	CITY OF DOVER, NH
D-13	WATER	COMMUNITY SERVICES ENGINEERING DIVISION  288 CENTRAL AVENUE
REVISED: April 2025	SERVICE	DOVER, NEW HAMPSHIRE 03820 TELEPHONE: (603) 516-6450 FAX: (603) 516-6463

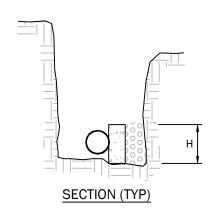


- 1. FIRE HYDRANTS SHALL BE FACTORY SEALED EDDY STYLE 2641.
- 2. HYDRANT SHALL BE PAINTED RED WITH EPOXY PAINT AS RECOMMENDED BY THE HYDRANT MANUFACTURER.
- 3. HYDRANT SHALL OPEN LEFT.
- 4. HYDRANT MARKER TO BE 3/8" FIBERGLASS RODS BY E-ZGUIDE PRODUCTS OR APPROVED EQUAL.
- 5. PIPE BEDDING AND BLANKET SHALL MEET THE STANDARD WATER TRENCH DETAIL D-4.

SHEET NO.	STANDARD DETAILS NOT TO SCALE	CITY OF DOVER, NH
D-14	   FIRF HYDRANT	COMMUNITY SERVICES ENGINEERING DIVISION  288 CENTRAL AVENUE DOVER, NEW HAMPSHIRE 03820
REVISED: April 2025		TELEPHONE: (603) 516-6450 FAX: (603) 516-6463



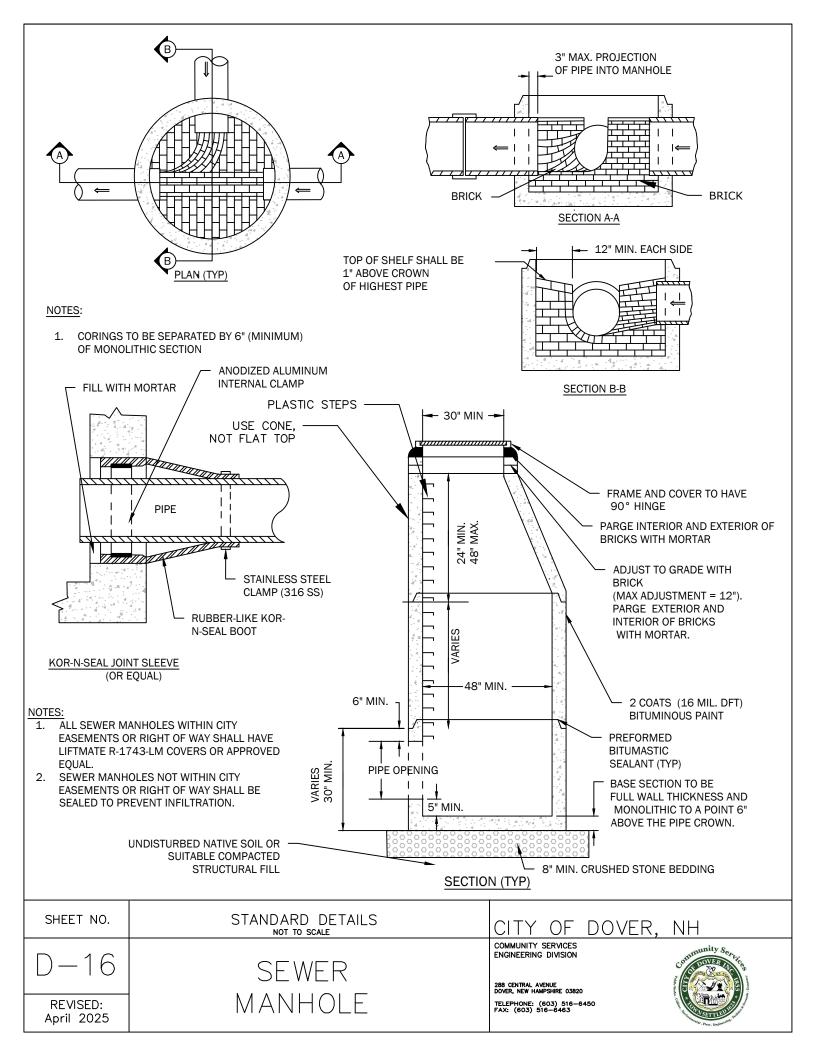
# THRUST BLOCK SCHEDULE MINIMUM BEARING AREA (SQUARE FEET)

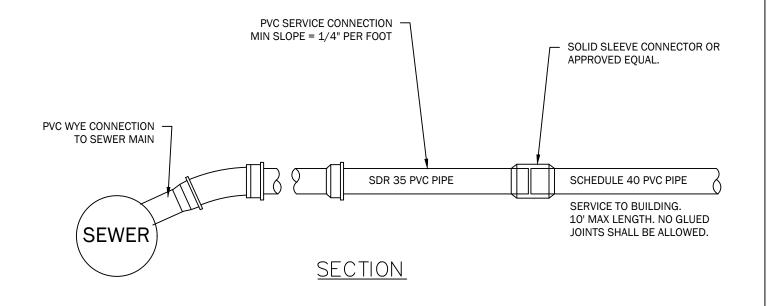


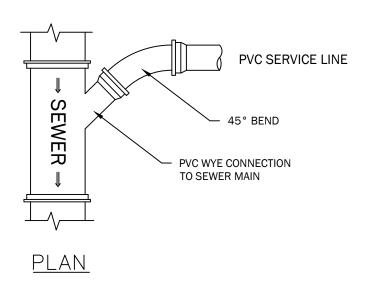
	PIPE SIZE					
Nominal Dia. (in)	4	6	8	10	12	16
Pipe Fittings	*	*	5.18	7.96	11.43	20.29
90 Degree Bends	*	4.11	7.33	11.26	16.17	28.69
45 Degree Bends	*	*	*	6.10	8.75	15.53
22-1/2 Degree Bends	*	*	*	*	4.46	7.92
11-1/4 Degree Bends	*	*	*	*	*	*
SYSTEM PRESSURE: 125 PSI  *SEE NOTE 2  SAFETY FACTOR: 1.5  SOIL BEARING CAPACITY: 2.000 PSE						

- 1. ALL THRUST BLOCKS SHALL BE PRE-CAST CONCRETE UNLESS APPROVED BY THE CITY ENGINEER.
- 2. 2'X2'X2' MINIMUM THRUST BLOCK REQUIRED, ANY BEARING AREA OVER 4SF REQUIRES THRUST BLOCKS, RESTRAINED JOINTS AND CALCULATIONS ASSOCIATED WITH THE JOINT.
- 3. THE MINIMUM BEARING AREAS SHOWN IN THE THRUST BLOCK SCHEDULE ARE BASED ON A SYSTEM PRESSURE OF 125 PSI. IF THE SYSTEM PRESSURE IS ABOVE 125 PSI, INCREASE THE NOTED AREAS PROPORTIONALLY TO THE ACTUAL SYSTEM PRESSURE.
- 4. FOR MINIMUM BEARING AREAS OVER 4 SF, THE LENGTH (L) OF THE BLOCK IS APPROXIMATELY TWICE AS LONG AS THE HEIGHT (H).
- 5. PLACE CRUSHED STONE BEHIND THRUST BLOCK AGAINST UNDISTURBED SOIL.
- 6. PLACE THRUST BLOCK ALONG MAXIMUM LENGTH OF THE FITTING TO MAXIMIZE BEARING AREA.
- 7. CONCRETE COMPRESSIVE STRENGTH: 2,000 PSI MINIMUM.
- 8. USE OF THRUST BLOCKS DOES NOT ELIMINATE THE REQUIREMENT OF OTHER RESTRAINTS OR VICE VERSA.

SHEET NO.	STANDARD DETAILS NOT TO SCALE	CITY OF DOVER, NH	
D-15	CONCRETE	COMMUNITY SERVICES ENGINEERING DIVISION  288 CENTRAL AVENUE DOVER, NEW HAMPSHIRE 03820	
REVISED: April 2025	THRUST BLOCK	TELEPHONE: (603) 516-6450 FAX: (603) 516-6463	

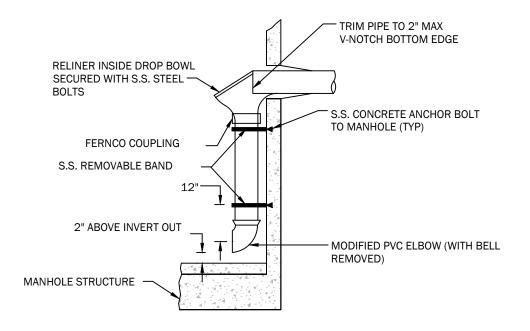






- 1. TRENCHING AND BEDDING REQUIREMENTS PER CITY SEWER TRENCH DETAIL (D-3).
- 2. SERVICE LATERAL DIAMETER VARIES PER APPLICATION. REVIEW SIZE WITH CITY ENGINEER PRIOR TO INSTALLATION.
- 3. SDR 35 SHALL NOT EXTEND INTO THE BUILDING

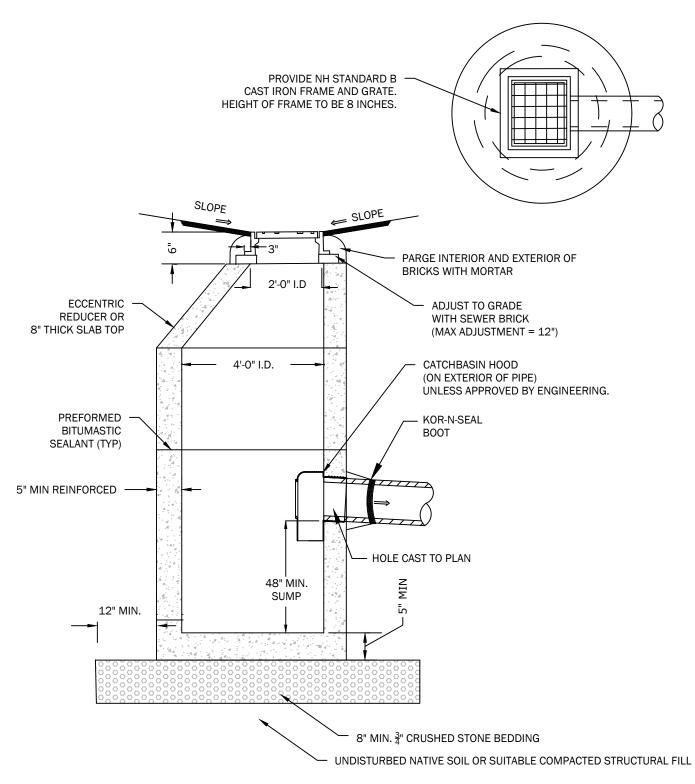
SHEET NO.	STANDARD DETAILS NOT TO SCALE	CITY OF DOVER, NH
D-17	SEWER	COMMUNITY SERVICES ENGINEERING DIVISION  288 CENTRAL AVENUE
REVISED: April 2025	SERVICE	DOVER, NEW HAMPSHIRE 03820 TELEPHONE: (603) 516-6450 FAX: (603) 516-6463



# INTERNAL DROP

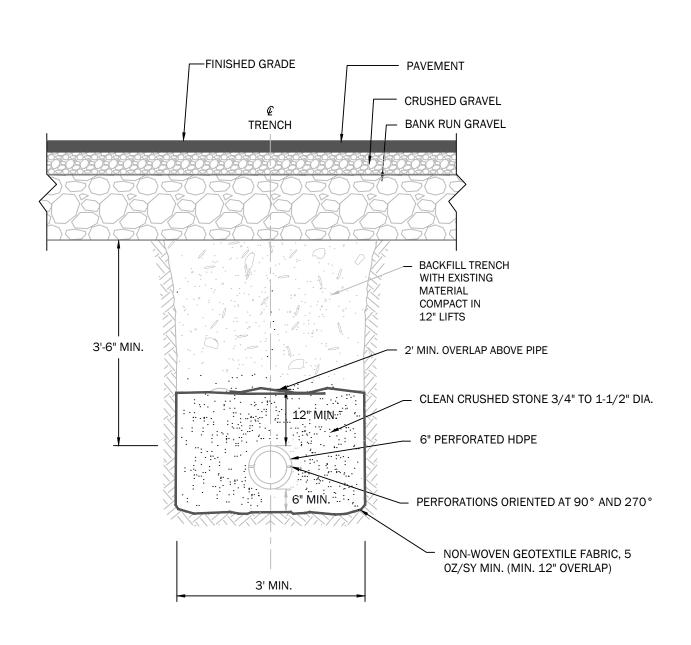
- 1. INTERNAL DROPS ARE PROHIBITED UNLESS APPROVED BY THE CITY ENGINEER.
- 2. A MINIMUM 5 FT DIAMETER MANHOLE IS REQUIRED FOR AN INTERNAL DROP.
- 3. IF A DROP IS PROPOSED FOR AN EXISTING MANHOLE, THE BRICK SHELF SHALL BE REWORKED TO FORM A NEW CHANNEL FOR NEW DROP CONNECTIONS. IF STRUCTURE IS LESS THAN 5 FT IN DIAMETER, A NEW PRECAST MANHOLE SHALL BE INSTALLED.
- 3. BRICK INVERT NOT SHOWN ON DETAIL.
- 4. EXTERNAL DROPS ARE NOT PERMITTED UNLESSED AUTHORIZED IN WRITING BY COMMUNITY SERVICES.

SHEET NO.	STANDARD DETAILS	CITY OF DOVER, NH
D-18	MANHOLE	COMMUNITY SERVICES ENGINEERING DIVISION  288 CENTRAL AVENUE
REVISED: April 2025	DROP INLET	DOVER, NEW HAMPSHIRE 03820 TELEPHONE: (603) 516-6450 FAX: (603) 516-6463



- 1. ENTIRE STRUCTURE SHALL BE H-20 LOAD RATED. PROVIDE MANUFACTURER REINFORCEMENT DETAILS TO THE CITY ENGINEER UPON REQUEST.
- 2. CONTRACTOR SHALL HAVE OPTION TO USE 6" OR 8" PRECAST GRADE RINGS TO ADJUST GRADE.

SHEET NO.	STANDARD DETAILS NOT TO SCALE	CITY OF DOVER, NH
D-19	CATCHBASIN	COMMUNITY SERVICES ENGINEERING DIVISION  288 CENTRAL AVENUE DOVER, NEW HAMPSHIRE, 03820
REVISED: April 2025		TELEPHONE: (603) 516-6450 FAX: (603) 516-6463



SHEET NO.	STANDARD DETAILS NOT TO SCALE	CITY OF DOVER, NH
D-20	UNDERDRAIN	COMMUNITY SERVICES ENGINEERING DIVISION  288 CENTRAL AVENUE DOVER, NEW HAMPSHIRE 0,3820
REVISED: April 2025		TELEPHONE: (603) 516-6450 FAX: (603) 516-6463