

STANDARD TRENCH DETAIL

NOTE 1: IN COLD WEATHER PLACE ROAD BASE TO GRADE & REPLACE WITH HOT MIX WHEN WEATHER IS SUITABLE.

NOTE 2: HAUNCHING FOR WATER LINE SHALL BE 3/4" MINUS FINE, GRAINED LOW PERMEABILITY MATERIALS. SEWER BEDDING MAYBE SINGLE SIZE SCREENED ROCK UP TO 1.5". SHARP AND/OR ABRASIVE MATERIALS ARE PROHIBITED.

NOTE 3. DEPTH OF COVER OVER WATER LINES SHALL BE A MINIMUM 5' AND A MAXIMUM OF 6' UNLESS OTHERWISE INDICATED ON THE TOWN APPROVED PLANS IN THE TOWN APPROVED PLANS STRUCTURAL INSULATION (PER WATER STANDARDS) MAY BE REQUIRED FOR COVER OF LESS THAN 5'.



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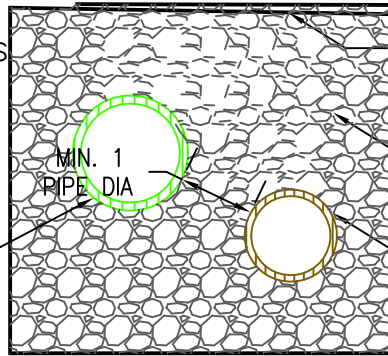
STANDARD TRENCH DETAIL

DATE: 6/10/20

SHEET:

HEIGHT OF WRAP ENOUGH TO
ENCLOSE SEWER & SEEP LINES
WITH 8" MIN ROCK BELOW
AND 12" ABOVE PIPES

SEWER MAIN (SIZE &
MATL PER APPD PLANS)

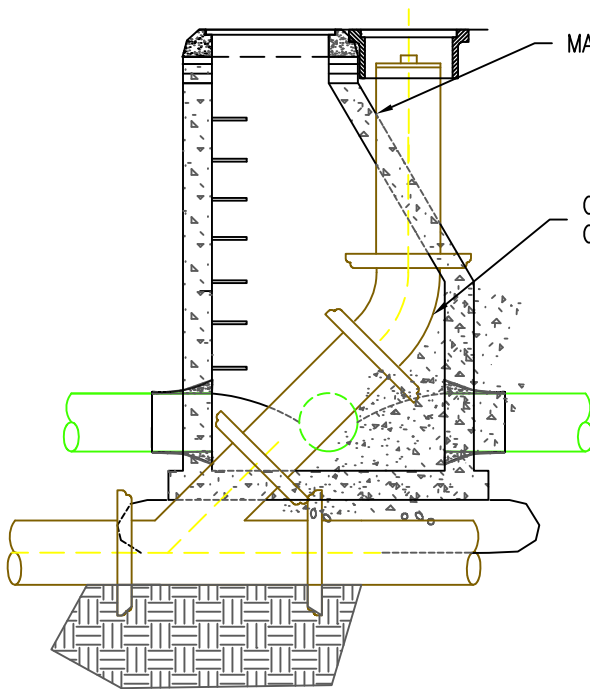


12 OZ MIN. NON WOVEN GEOTEXTILE
SURROUNDING SCREENED ROCK
PIPE BEDDING.

3/4" - 1-1/2" SCREENED ROCK
6" LIFTS COMPACTED TO 95%
STD PROCTOR

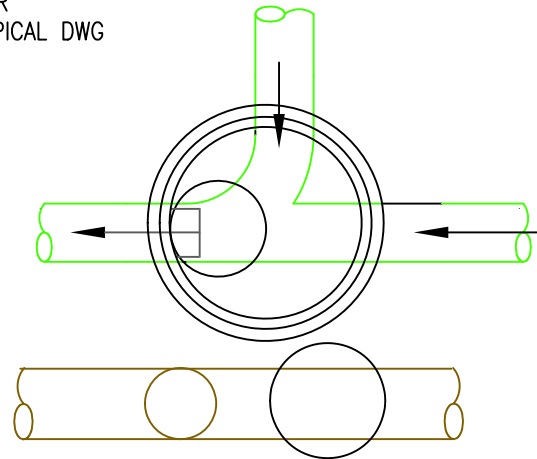
PERFORATED HDPE
(SEEP LINE.).

SEWER W/GEOTEXTILE BEDDING DETAIL



MANHOLE PER MANHOLE TYPICAL DWG

CLEANOUT PER
CLEANOUT TYPICAL DWG



SEEP LINE CLEANOUT

N.T.S.



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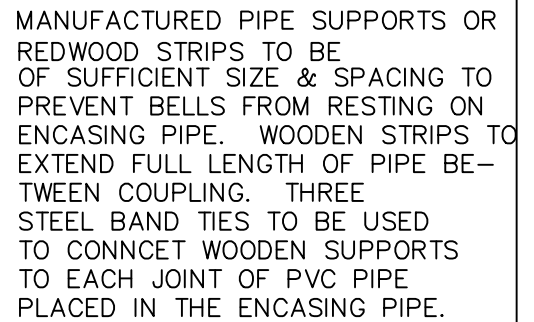
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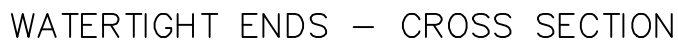
SEWER / SEEP TRENCH DETAIL

DATE: 6/10/20

SHEET:

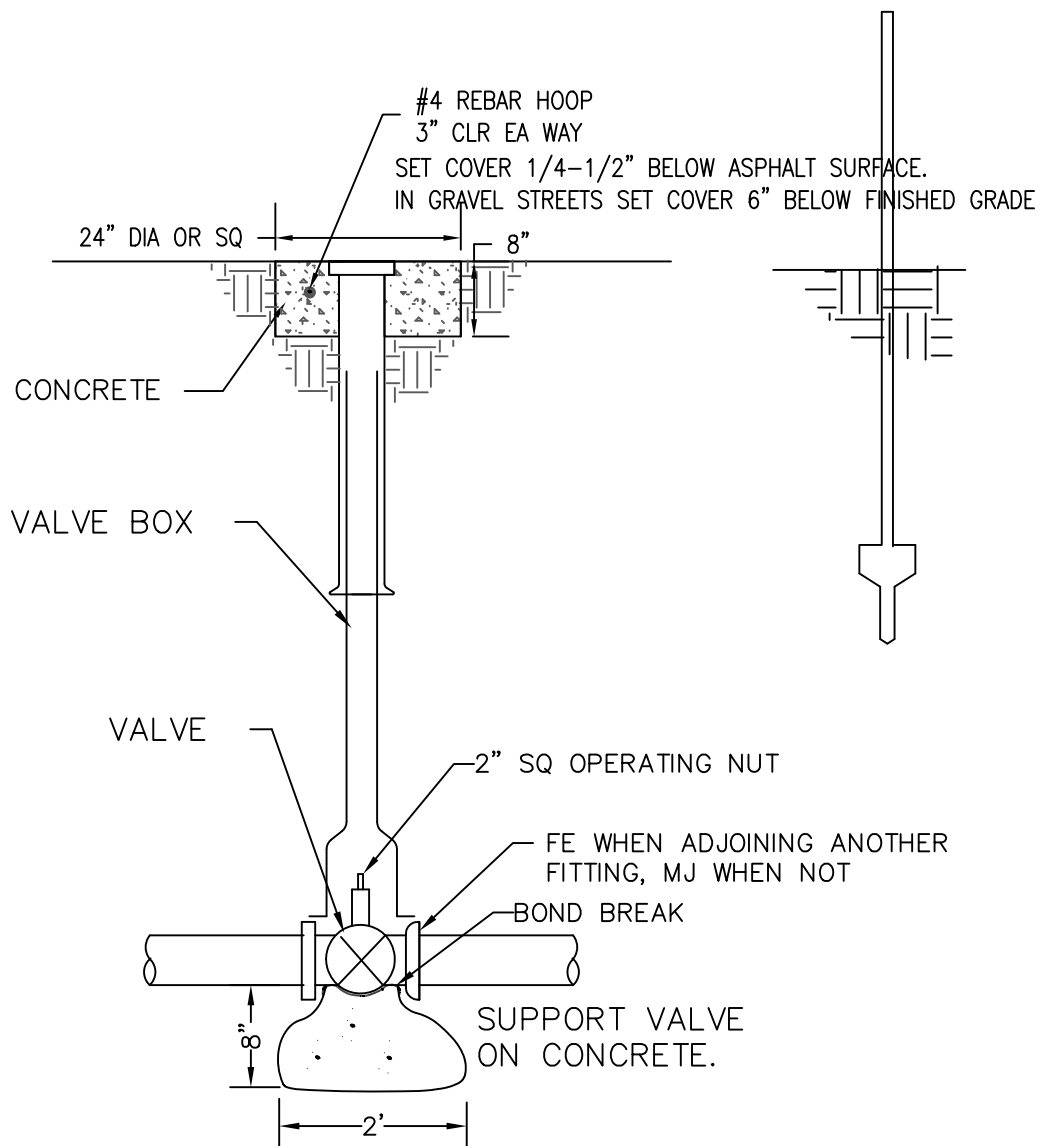


1. CENTER CASING OVER OR UNDER WATER LINE W/CARRIER PIPE JOINT CENTERED IN THE CASING.
2. PLACE 2" INSULATION BETWEEN CASING & WATER MAIN,5' ON EACH SIDE OF WATER LINE.
3. WHEN POTABLE LINE IS BELOW THE SEWER LINE SEALED ENDS ARE REQUIRED ON THE CASING. SEAL MAY BE SOLID NO HUB REDUCING COUPLING OR LINK SEAL
4. CASING PIPE SHALL BE OF SUFFICIENT SIZE TO ALLOW FOR EASY INSTALLATION OF THE CARRIER PIPE INCLUDING THE BELL. CARRIER SHALL BE FULLY SUPPORTED



CASING PIPE DETAIL

SHEET:



GATE VALVE AND BOX

SECTION VIEW

VALVE BOXES TO BE BUFFALO TYPE
TWO PIECE 5-1-1/4" SHAFT W/LID.
EXTENSION PIECES SHALL BE USED
AS REQ'D. PROVIDE EXTENSION
SHAFT ON OPERATING NUT WHEN
DEPTH GREATER THAN 6'.
VALVE BOX SHALL BE SUPPORTED
ON BODY OF VALVE

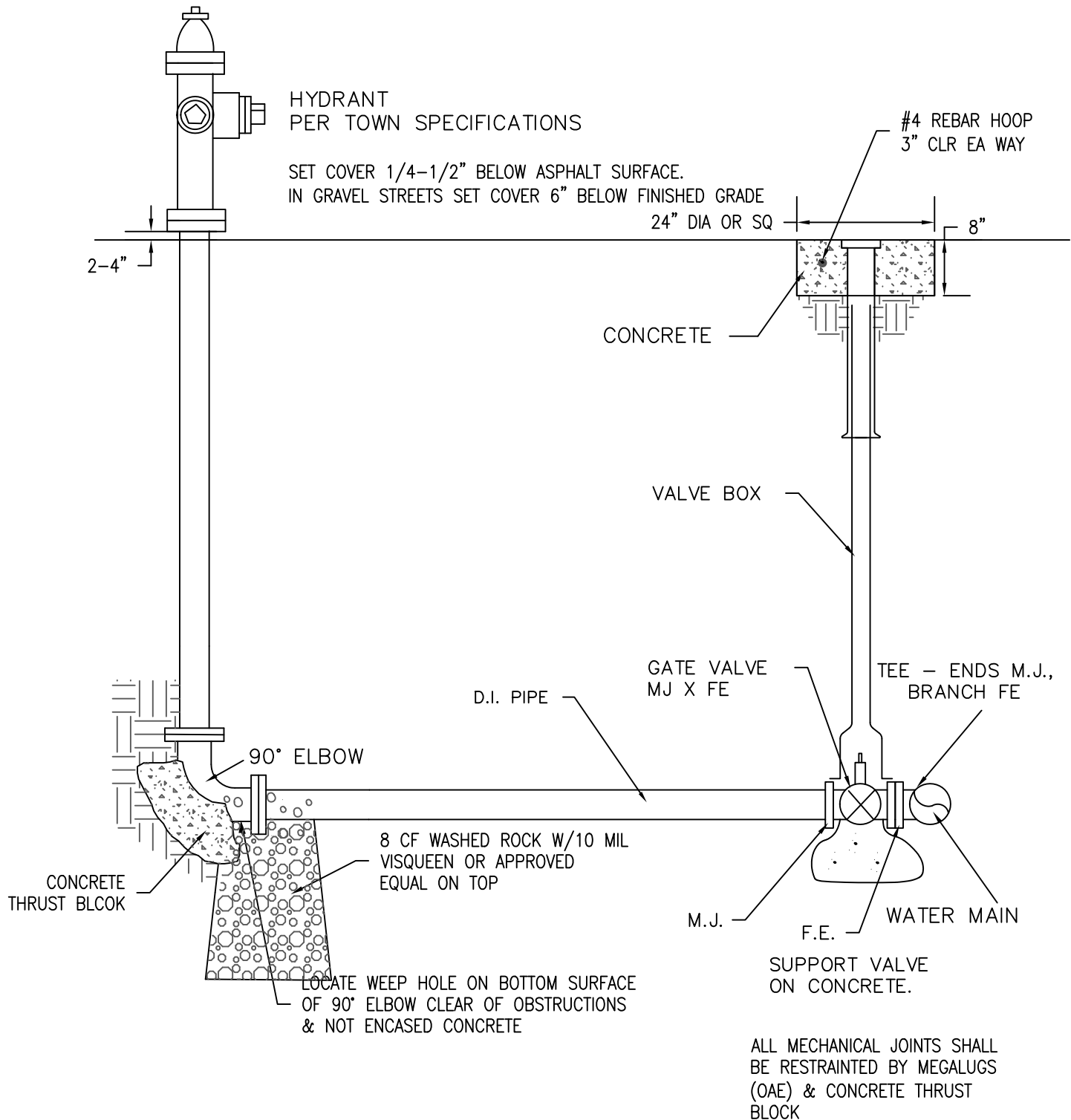


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GATE VALVE DETAIL

DATE: 6/10/20

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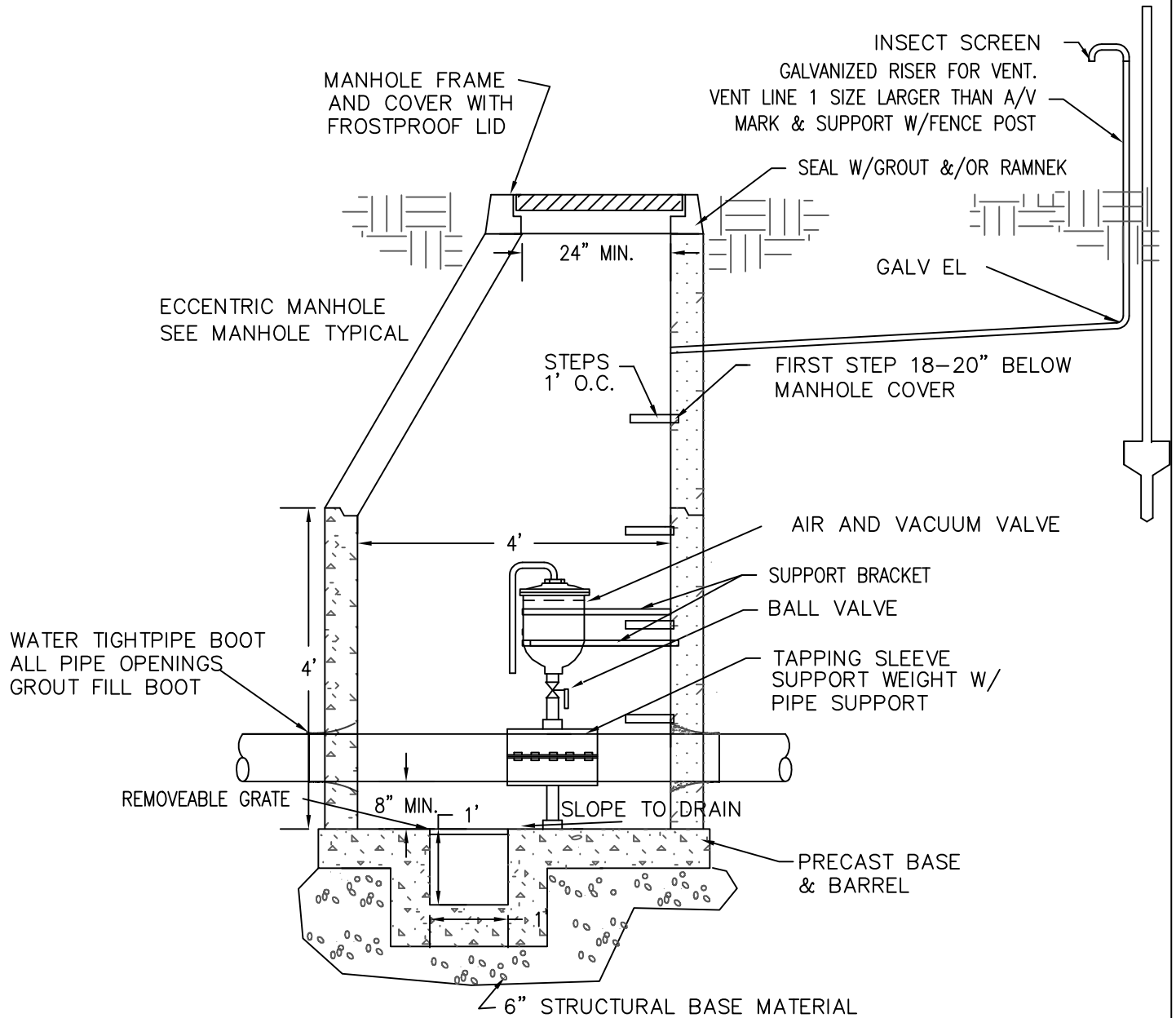


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FIRE HYDRANT DETAIL

DATE: 6/10/20

SHEET:



NOTES:

1. DETAIL APPLICABLE TO WATER & SEWER AIR VACUUM STATIONS
2. LOCATE VALVE DIRECTLY OVER PIPE
3. SIZE VALVE TO FLOW CONDITIONS
4. CONFIRM SIZE, MODEL, & BRAND W/ TOWN BEFORE PURCHASING
5. PLACE WATERPROOF INSULATION AROUND VALVE

6. FURNISH CLEANING APPARATUS FOR SEWER VALVES TO TOWN

7. WHERE SEASONAL HIGH GROUNDWATER TABLE IS MORE THAN 3' BELOW THE BOTTOM OF THE MANHOLE, THE SUMP IN THE FLOOR CAN BE REPLACED WITH DRAIN IN FLOOR AND 1 CY MIN SCREENED ROCK BELOW THE MANHOLE PLACED ON NON WOVEN HIGH PERMEABILITY FABRIC

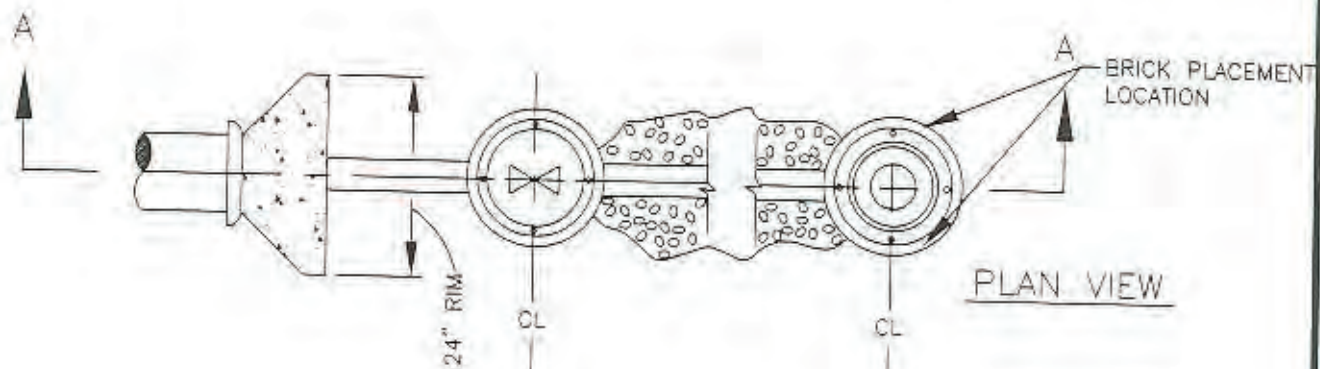


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AIR VACUUM STATION DETAIL

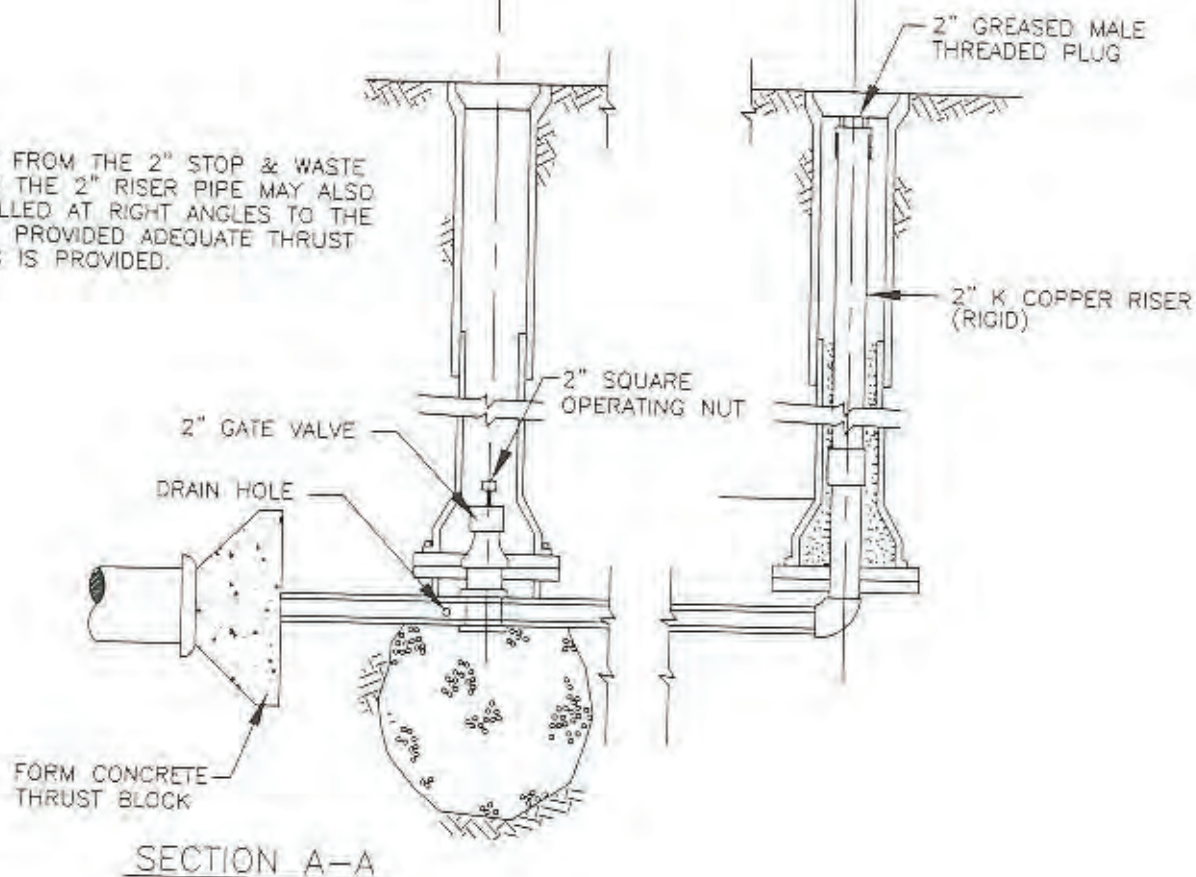
DATE: 6/10/20

SHEET:



NOTE:

THE LINE FROM THE 2" STOP & WASTE VALVE TO THE 2" RISER PIPE MAY ALSO BE INSTALLED AT RIGHT ANGLES TO THE MAINLINE, PROVIDED ADEQUATE THRUST BLOCKING IS PROVIDED.



BLOWOFF INSTALLATION

CHK:	TOWN OF RIDGWAY
DATE: 2/01	CONSOLIDATED CONSULTING SERVICES
DRN: R_TYP	PO BOX 738, DELTA, CO 81416
	BLOWOFF INSTALLATION

Bearing Area in Sq Ft

Pipe Size	Bends				Tees, Dead ends, Crosses & Dead end
	90°	45°	22-1/2°	11-1/4°	
3	1.0	0.6	0.3	0.0	0.7
4	1.8	1.0	0.5	0.0	1.3
6	4.0	2.2	1.1	0.0	2.8
8	7.1	3.8	2.0	1.0	5.0
10	11.1	6.0	3.0	1.5	7.8
12	16.0	8.6	4.4	2.2	11.3
14	21.7	11.8	6.0	3.0	15.4
16	28.4	15.3	8.0	4.0	20.0
18	36.0	19.4	10.0	5.0	25.4
24	64.0	34.5	17.7	8.8	45.0

Areas given in the table are based on internal static pressure of 100 psi and soil bearing capacity of 1,000 pounds per square foot

Bearing areas for any pressure and soil bearing capacity may be obtained by multiplying tabulated values by the following correction factor (F)

$$F = \frac{\text{Actual specified test pressure in hundreds of pounds}}{\text{Actual soil bearing pressure in thousands of pounds}}$$

All water line plans shall contain the following table, with the values filled in by the Design Engineer:

Soil Bearing capacity	_____	Lbs/SF
Test Pressure	_____	psi
Bearing Area Multiplier (F)	_____	

GENERAL NOTES:

1. THRUST BLOCKS AND MECHANICAL RESTRAINT SUCH AS MEGALUGS or single bolt REQUIRED ON ALL MECHANICAL JOINTS
2. BEARING SURFACE AREAS SHOWN IN CHART ARE MINIMUMS
3. ALL FITTING AND BOLTS SHALL BE WRAPPED & TAPED CLOSED WITH 10 MIL MINIMUM POLY WRAP

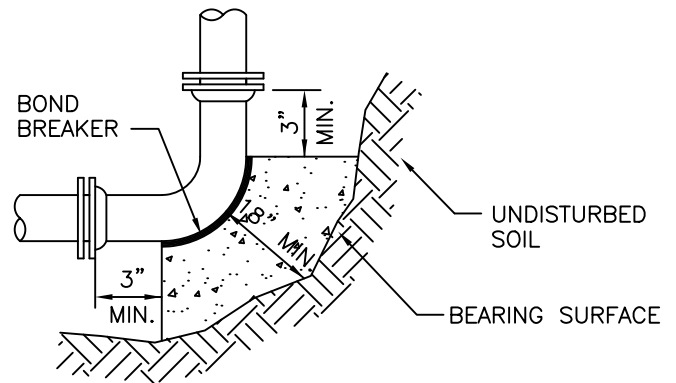
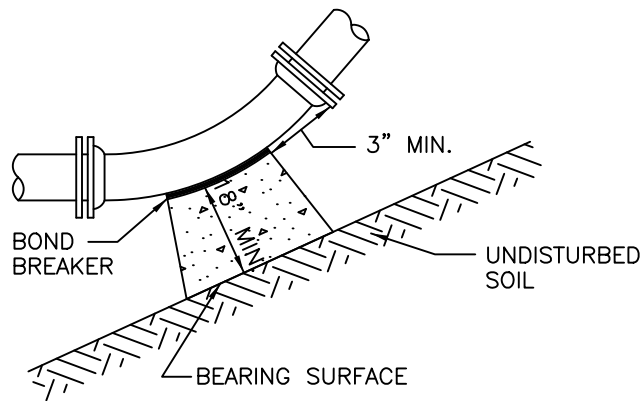


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THRUST BLOCK SIZING

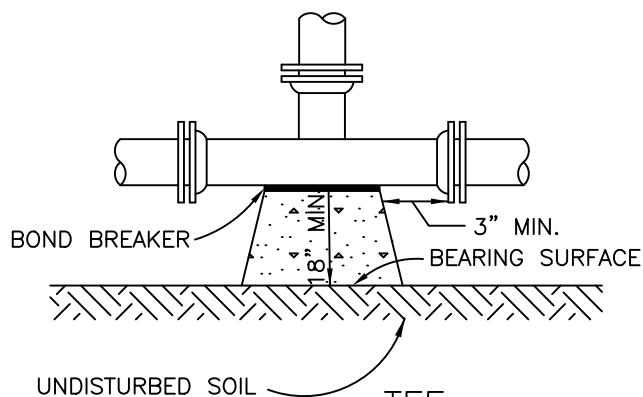
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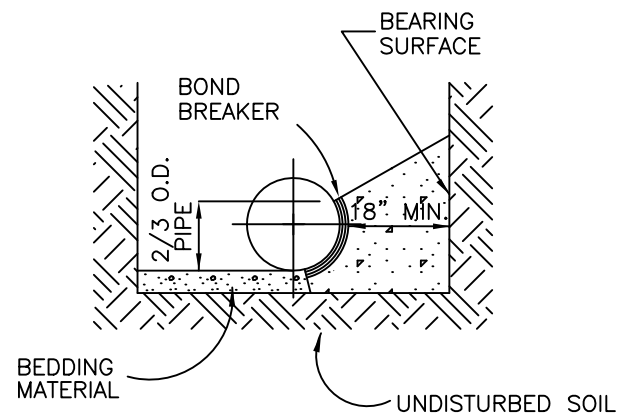


90° BEND

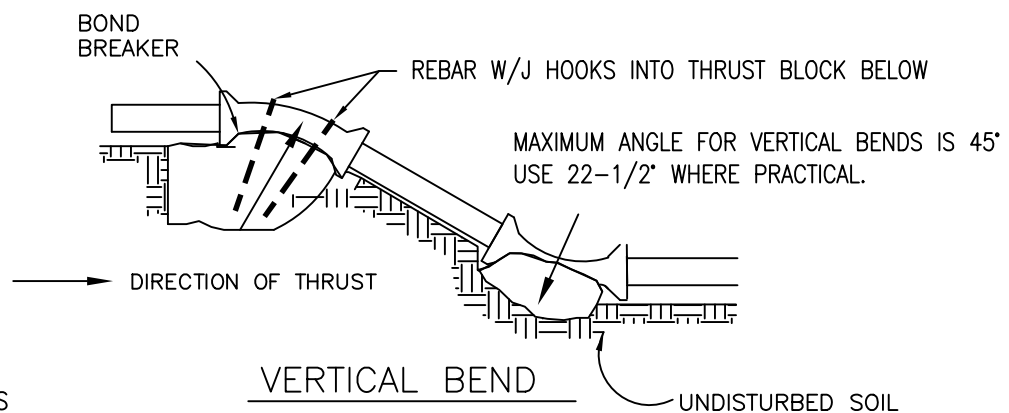
$\frac{11}{4}$ $\frac{1}{4}$, $\frac{22}{2}$ $\frac{1}{2}$ AND 45° BENDS



TEE



TYPICAL CROSS SECTION



VERTICAL BEND

FOR THRUST SIZING AND NOTES
SEE THRUST BLOCK SIZING DETAIL

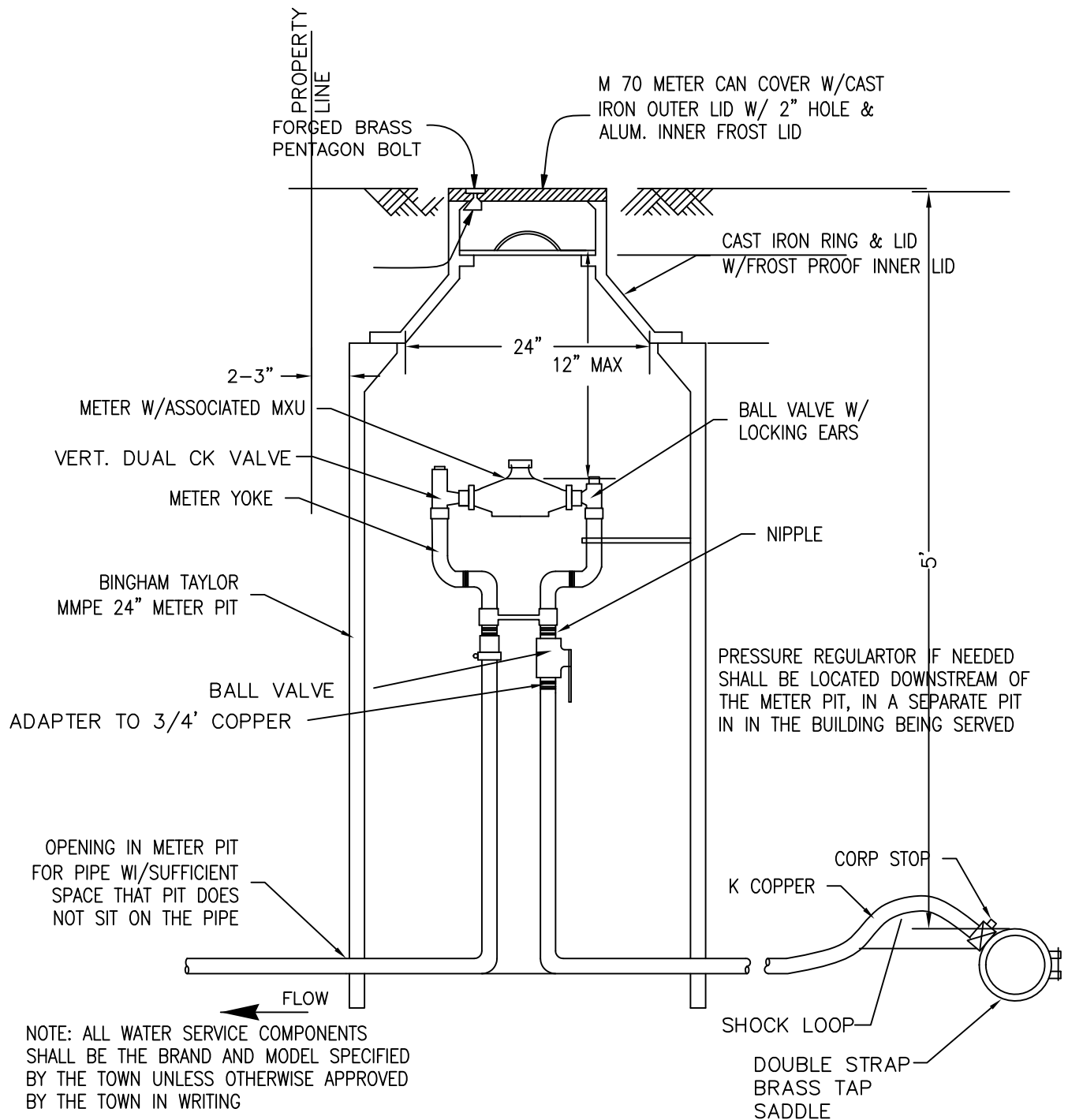


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**THRUST BLOCK
DETAIL**

DATE: 6/10/20

SHEET:

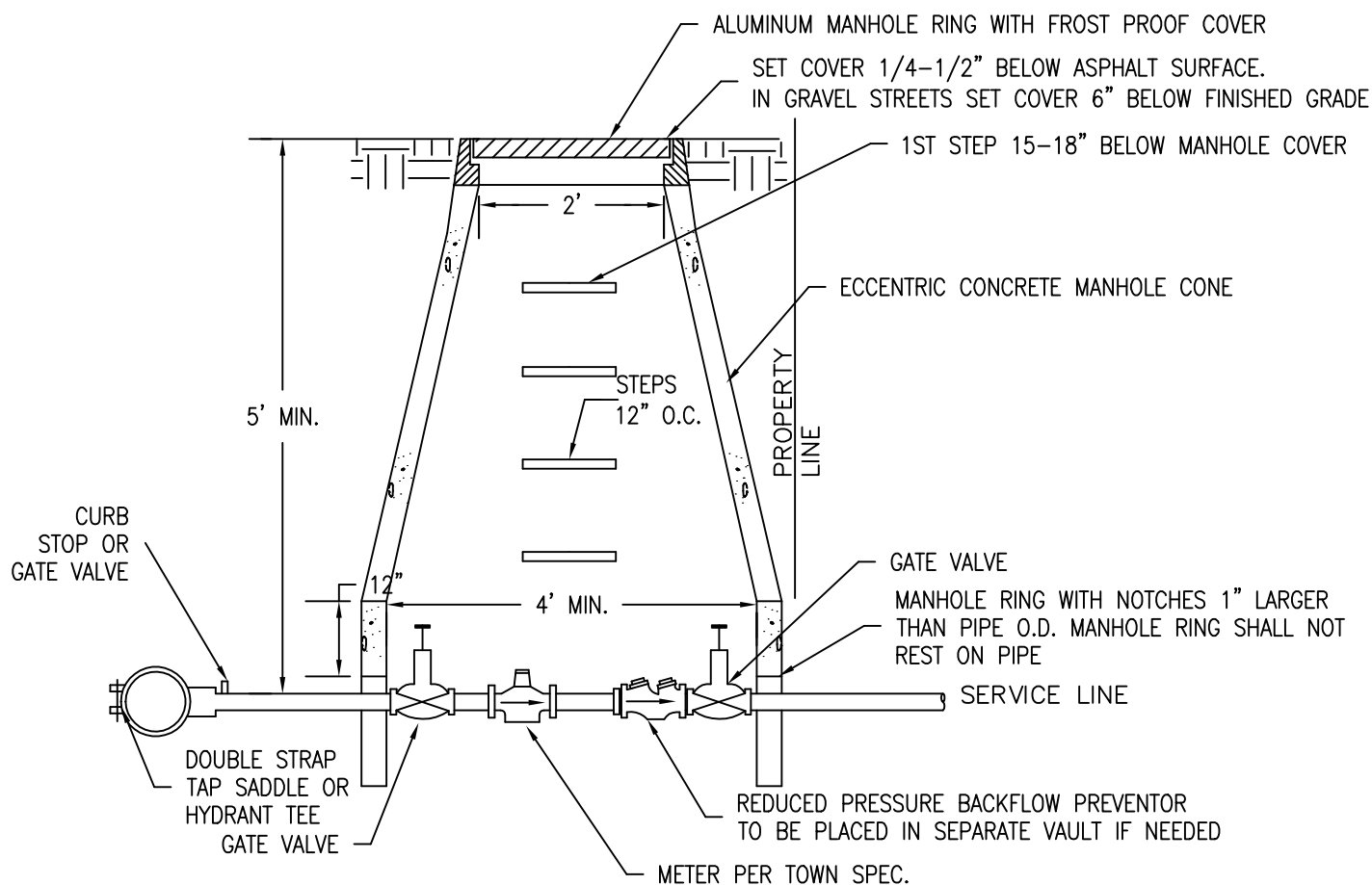


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**3/4" - 1" METER
DETAIL**

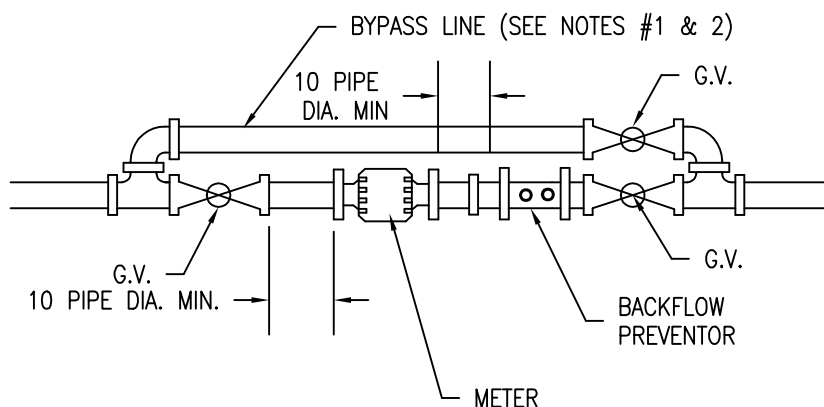
DATE: 6/10/20

SHEET:



NOTES:

- 1) BYPASS LINE ONLY REQUIRED ON METERS 2" & GREATER
- 2) WHEN BYPASS IS REQUIRED, METER SHALL BE INSTALLED IN A VAULT SIZED TO ALLOW CONVENIENT IN PLACE MAINTENANCE OF METER VALVES, AND APPURTENANCES
- 3) IF SERVICE LINE SIZE EXCEEDS 25% DIA. OF MAIN LINE SIZE, A HYDRANT TEE & FE X MJ GATE VALVE SHALL BE INSTALLED FOR THE SERVICE LINE CONNECTION
- 4) REQUESTS FOR SERVICE CONNECTIONS AND/OR METERS IN EXCESS OF 1" REQUIRES JUSTIFICATION AND TOWN APPROVAL
- 5) ALL MATERIALS SHALL CONFORM WITH TOWN STANDARDS

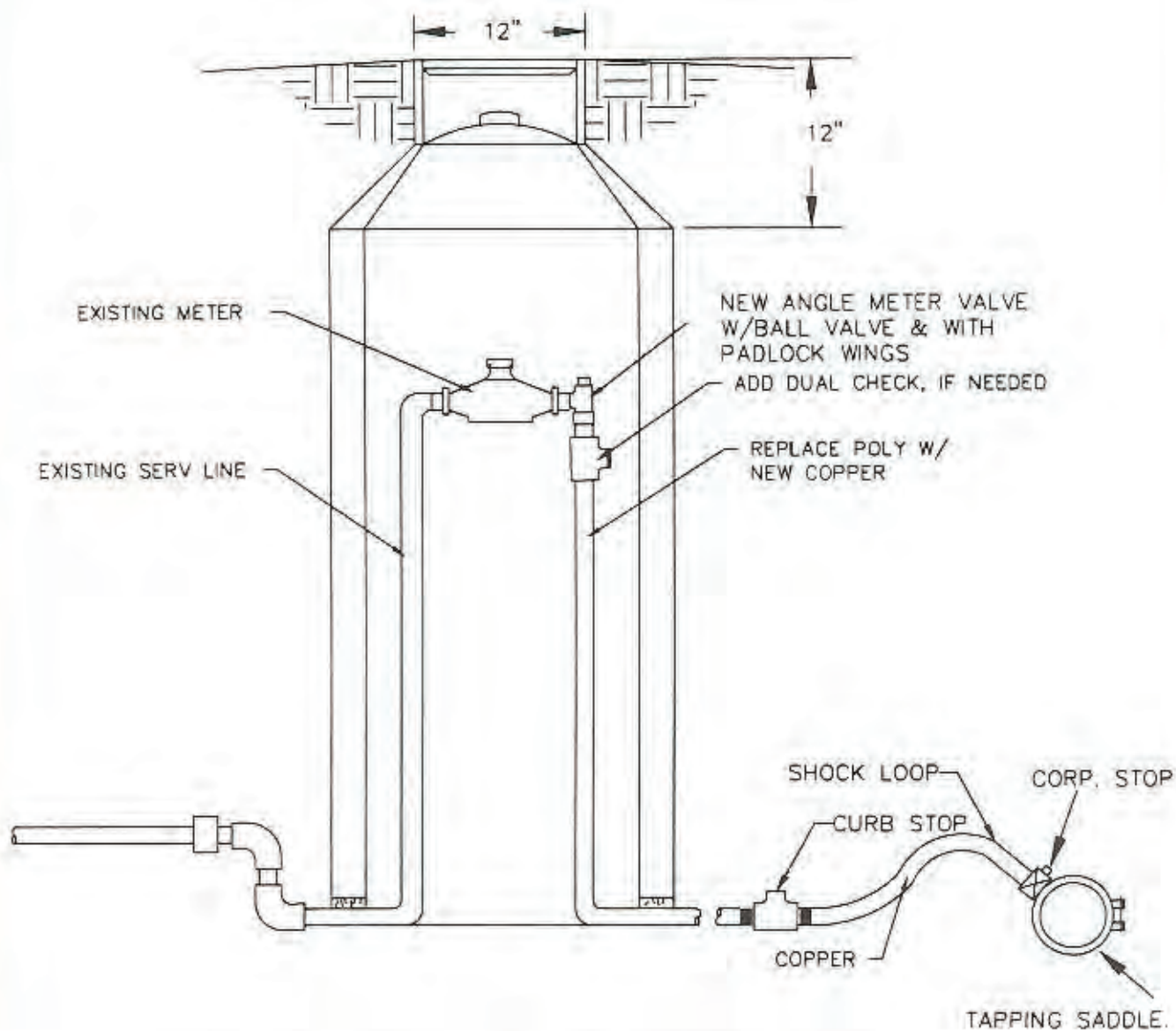


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**1-1/2 - 2" METER
DETAIL**

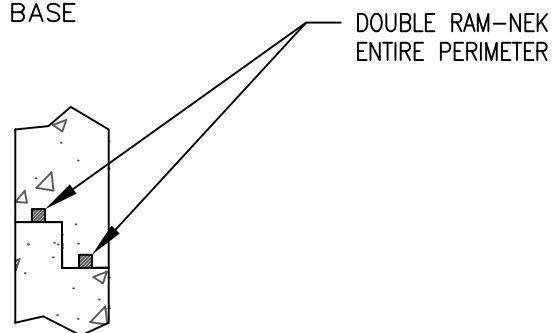
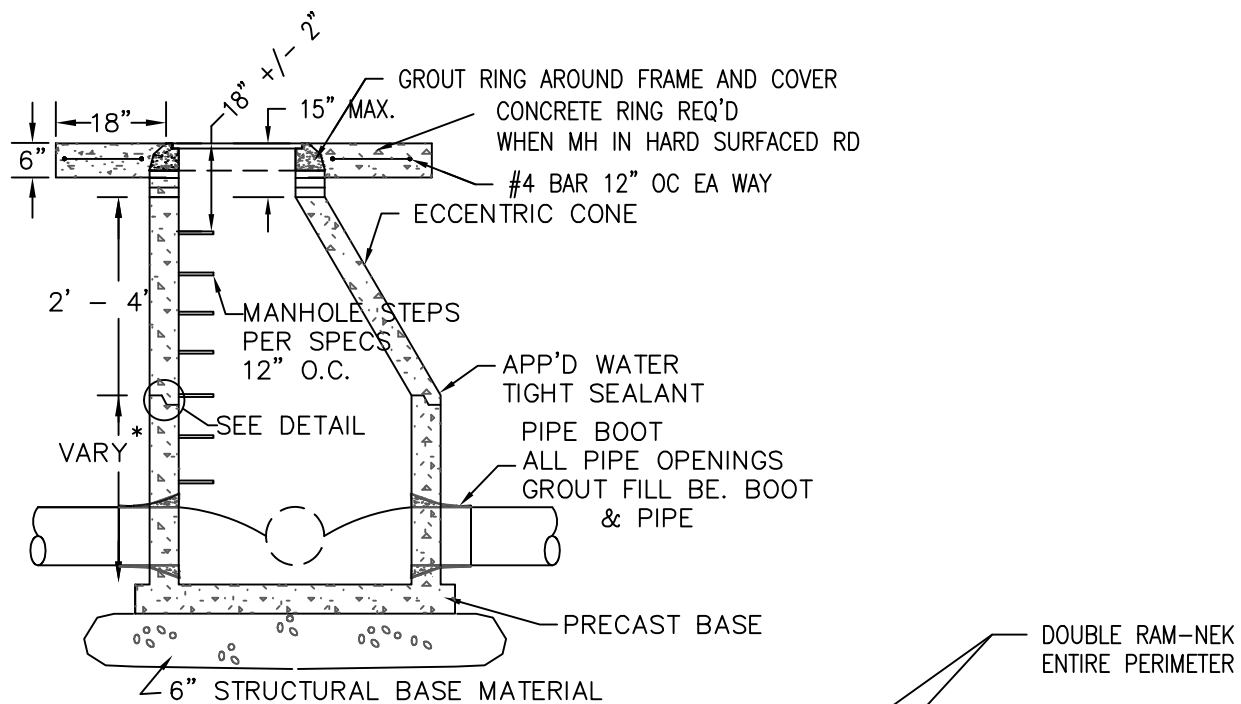
DATE: 6/20/20

SHEET:



TYPICAL EXISTING SERVICE RECONNECTION

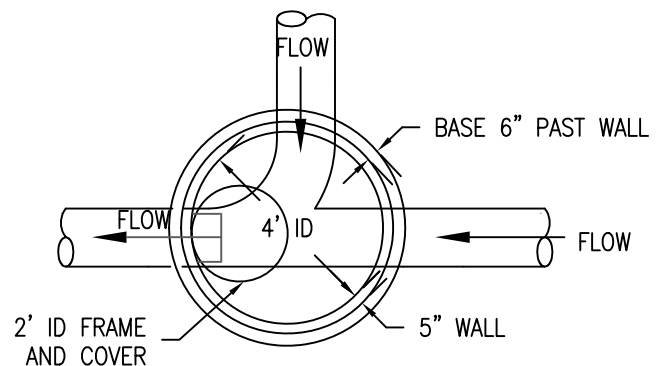
CHK:	TOWN OF RIDGWAY
DATE: 6/06	CONSOLIDATED CONSULTING SERVICES
	PO BOX 738, DELTA, CO 81416
DRN: R_TYP	RECONNECT SERVICE



DETAIL
N.T.S.

NOTES:

1. MIN. DROP THRU MANHOLE SHALL BE 0.1 FT FOR STRAIGHT RUNS & 0.2 FT FOR 90° BENDS
2. IF NEEDED TO PASS THE REQ'D VACUUM TEST, COAT EXTERIOR OF MANHOLE WITH COAL TAR EPOXY.
3. CONCRETE GROUT IS REQUIRED BETWEEN THE FRAME AND COVER ON ALL MANHOLES. THE LARGER CONCRETE RING SHOWN ABOVE IS ONLY REQUIRED WHEN THE COVER IS BROUGHT TO GRADE IN HARD SURFACED ROADWAYS



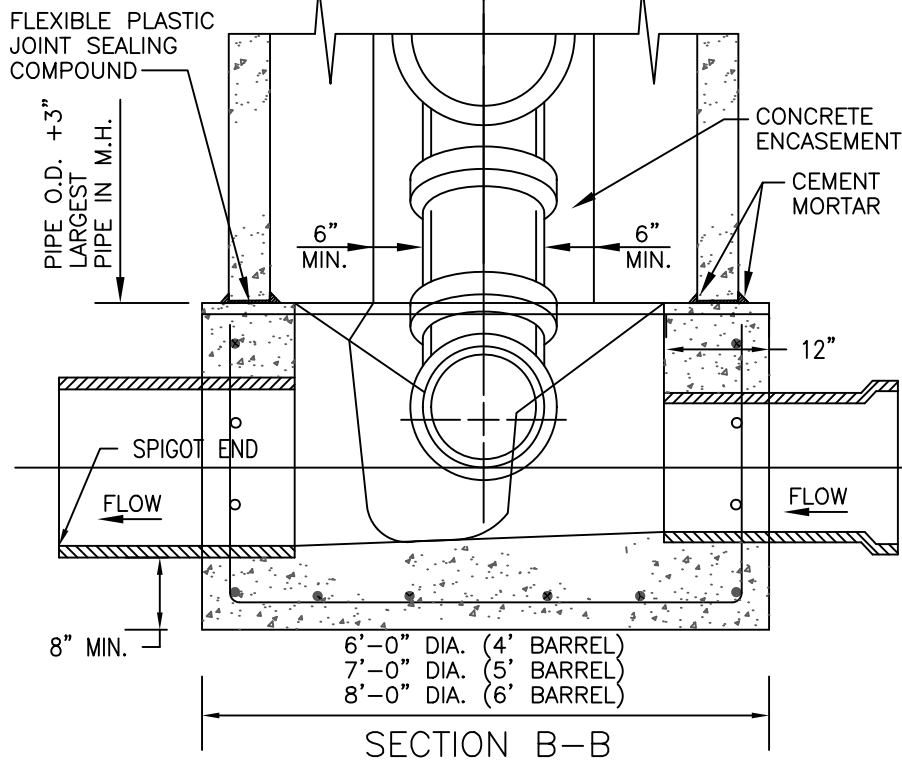
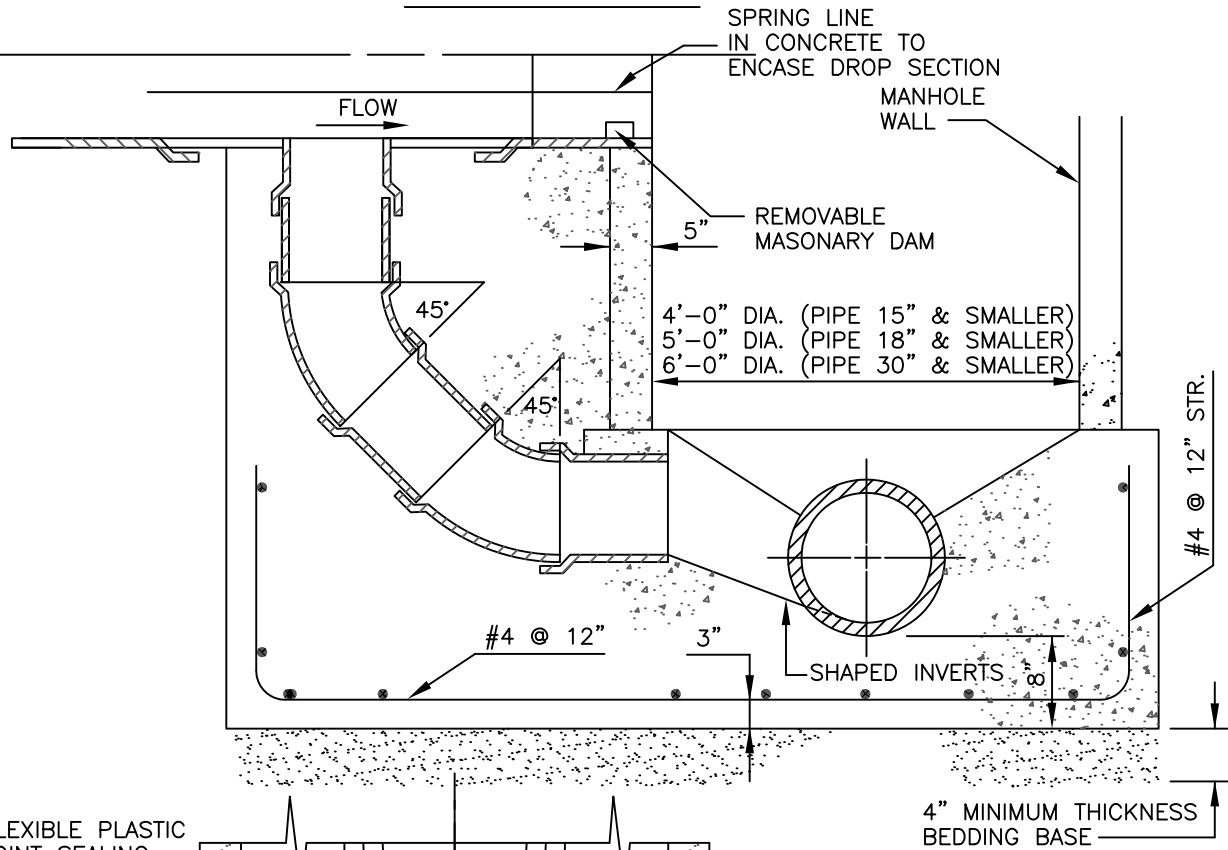
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MANHOLE DETAIL

DATE: 6/10/20

SHEET:

SECTION A-A



NOTES:

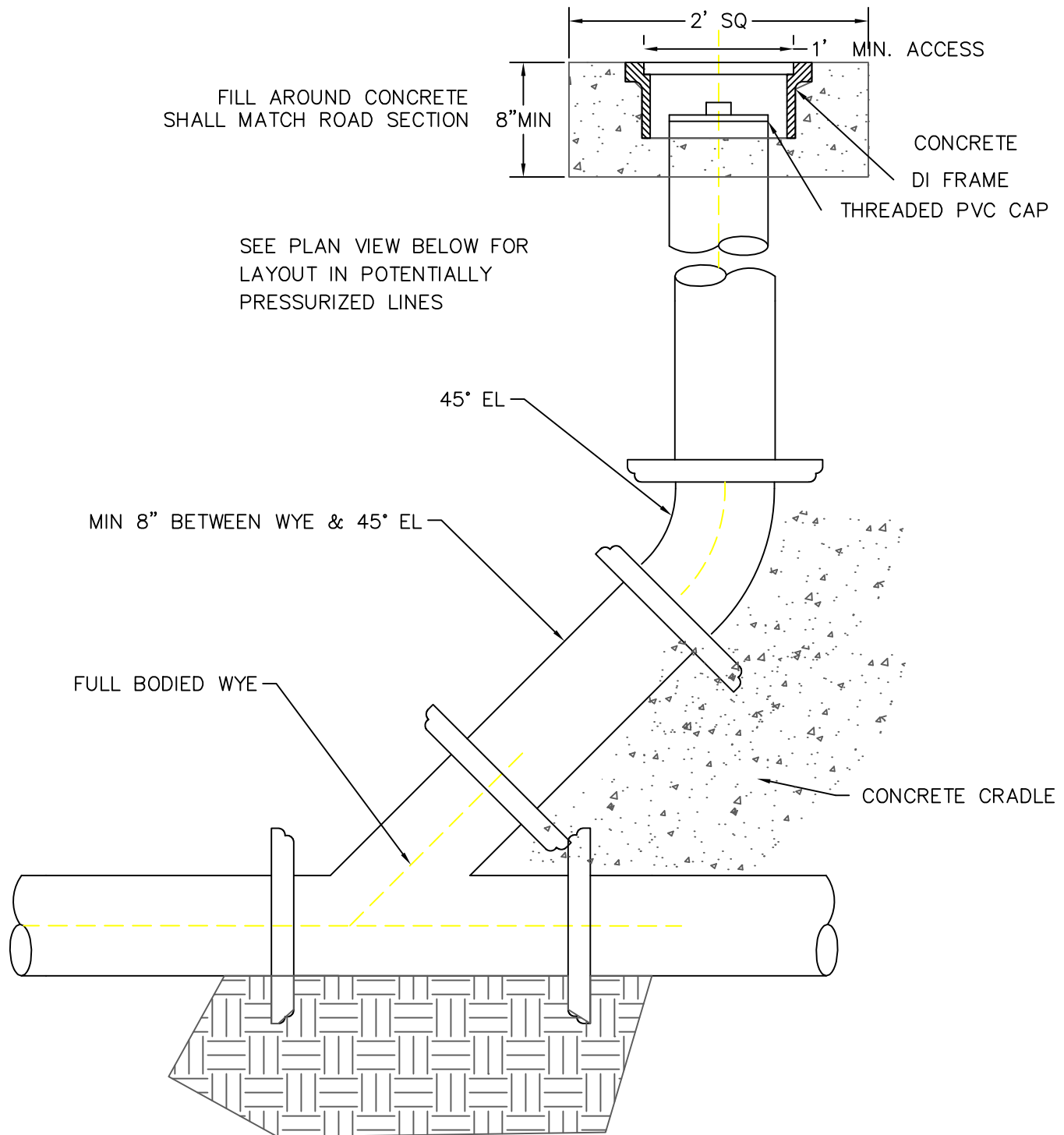
1. THIS MANHOLE REQUIRED WHEN A SEWER LINE ENTERS THE MANHOLE AT AN INVERT ELEVATION OF 18" OR MORE ABOVE THE INVERT OF THE MANHOLE
2. PIPE BOOTS REQUIRED AT MANHOLE PENETRATIONS
3. VERTICAL ANGLE CHANGES SHALL BE SUPPORTED W/FLOWABLE FILL
4. PRECAST MANHOLE BASE REQUIRED



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DROP MANHOLE DETAILS

DATE: 6/10/20 SHEET: 2 OF 2



TYPICAL CLEANOUT
ELEVATION VIEW

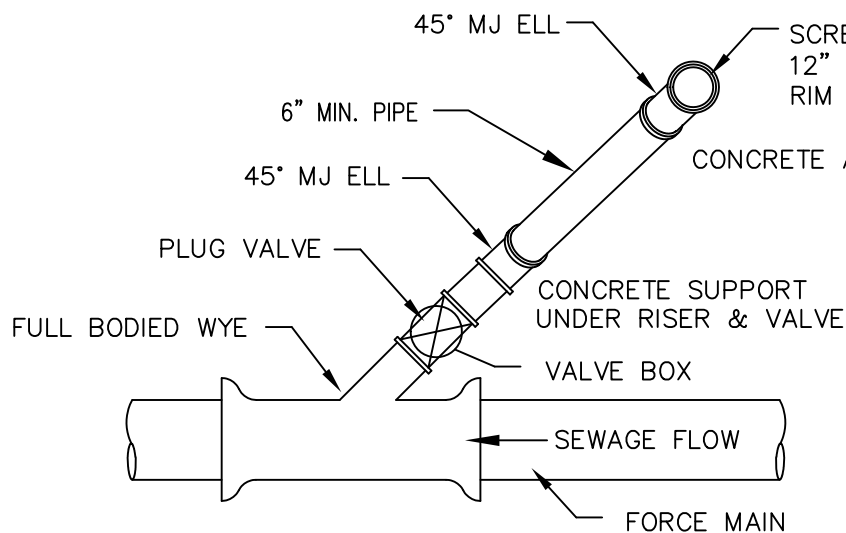


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GRAVITY CLEANOUT ELEVATION

DATE: 6/10/20

SHEET:



PRESSURE CLEANOUT
PLAN VIEW

ALL FITTINGS SHALL BE
DUCTILE IRON RESTRAINED
FOR PEAK ANTICIPATED
PRESSURES.

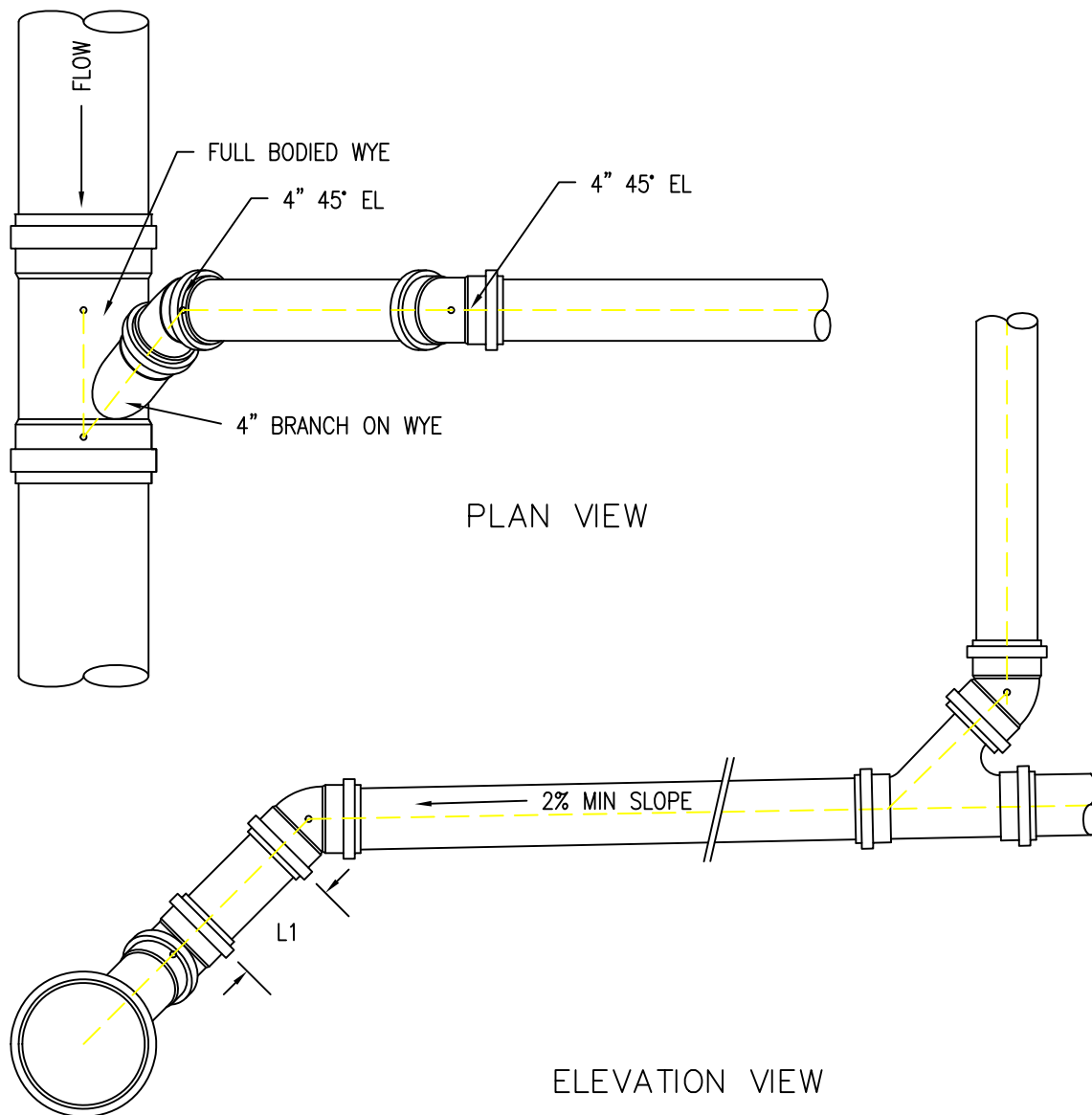
NOTE: FORCE MAIN MINIMUM SIZE
IS 4" WITH 4" VALVE & RISER



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**PRESSURE
CLEANOUT
PLAN VIEW**

DATE: 6/10/20 SHEET:



L1 = DISTANCE NEEDED TO ADJUST GRADE OF
THE SERVICE TO DESIGN ELEVATION

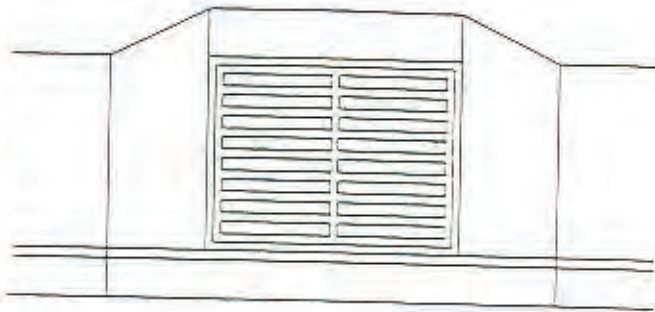


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**4" SEWER
SERVICE TAP**

DATE: 6/10/20

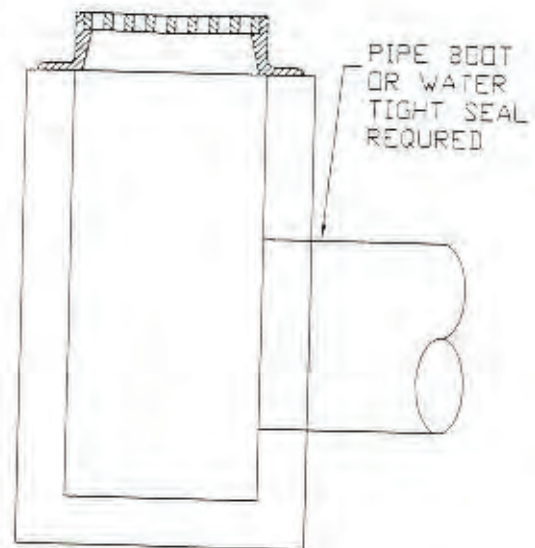
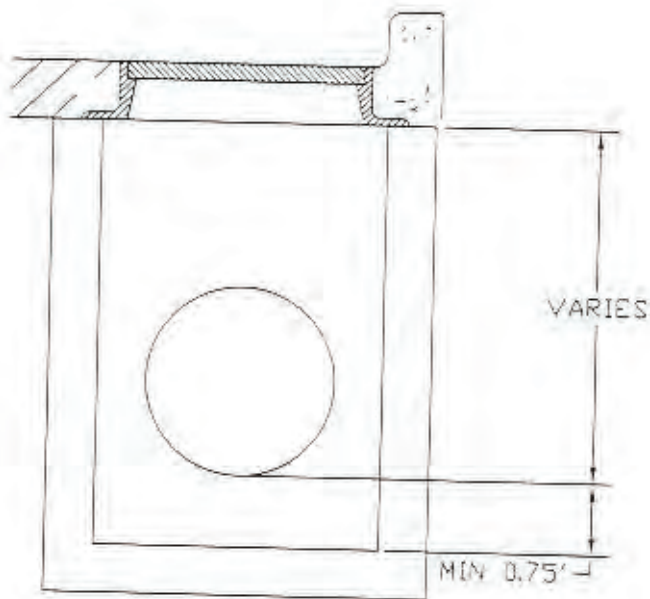
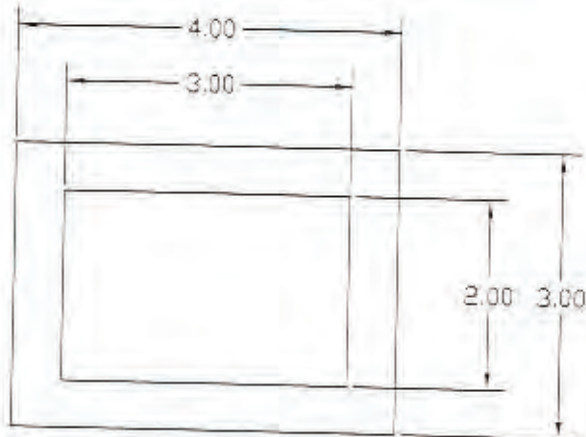
SHEET:



STORM DRAIN CASTING

CONFORM TO ASTM A48-83 CLASS 35B FOR
GRAY IRON OR ASTM A536-80 GRADE
65-45-12 FOR DUCTILE IRON

GRATE TO COMPLY WITH BICYCLE SAFETY
STANDARDS



STORM DRAIN PIPE

ADS N-12 OR APPROVED EQUAL
24" DIAMETER MINIMUM

STORM DRAIN DESIGN LIMIT

STANDARD INLET FOR LESS THAN 2 CFS
LARGER FLOWS REQUIRE FLOW SPECIFIC DESIGN

STORM DRAIN MANHOLES TO CONFORM
TO SEWER MANHOLE TYP

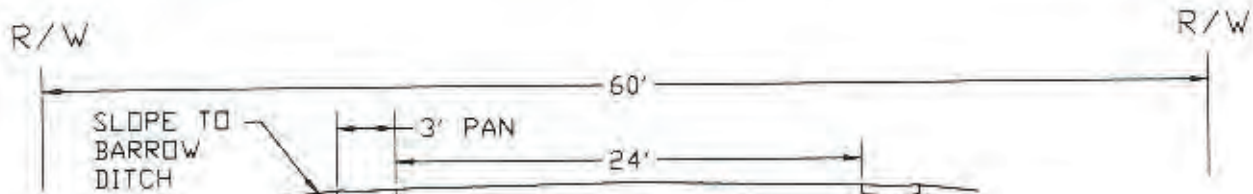
TOWN OF RIDGWAY

DATE:
2/01

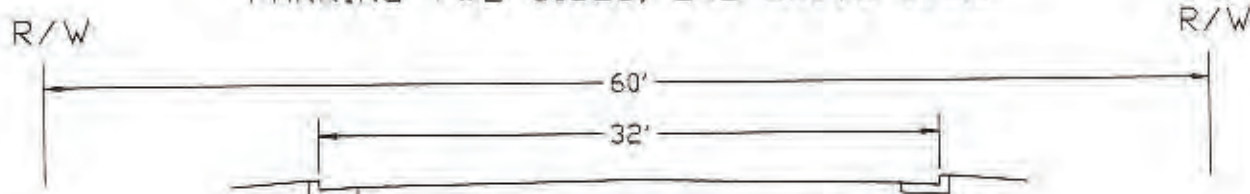
CONSOLIDATED
CONSULTING
SERVICES

DRN:

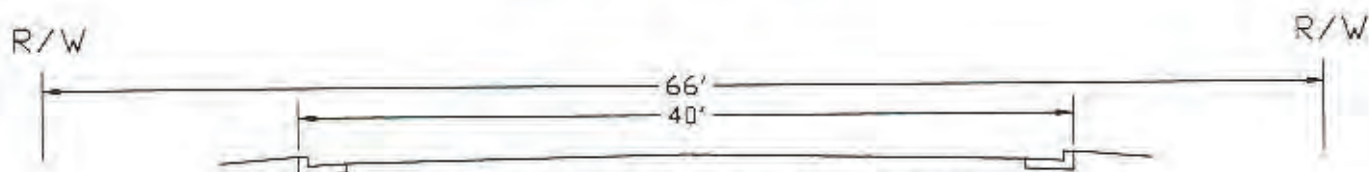
STORM DRAIN INLET



RESIDENTIAL LOCAL STREET
PARKING TWO SIDES, ONE DRIVE LANE



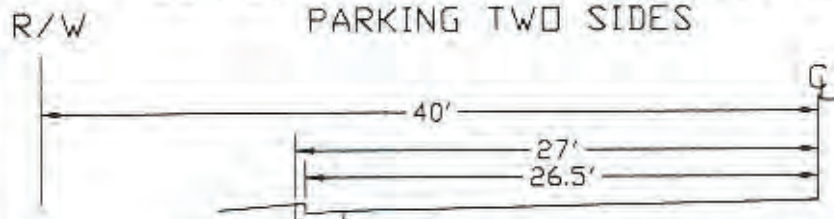
RESIDENTIAL COLLECTOR STREET
PARKING TWO SIDES



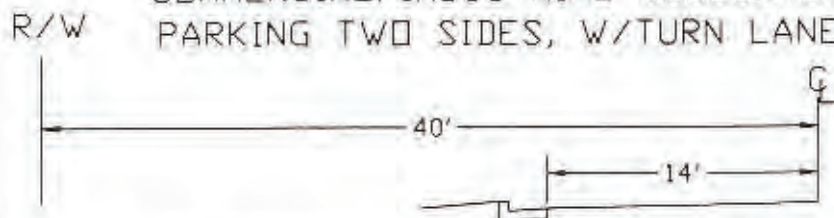
COMMERCIAL/INDUSTRIAL LOCAL
PARKING TWO SIDES



COMMERCIAL/INDUSTRIAL COLLECTOR
PARKING TWO SIDES



COMMERCIAL/INDUSTRIAL COLLECTOR
PARKING TWO SIDES, W/TURN LANE



COMMERCIAL/INDUSTRIAL COLLECTOR
NO PARKING

NOTES:

1. SIDEWALK TO BE LOCATED AT LOCATION DESIGNATED BY TOWN BETWEEN BACK OF CURB & PROPERTY LINE. SIDEWALK WIDTH & STRUCTURE SPECIFIED IN TOWN STDs & SIDEWALK TYPICALS.

2. ROAD STRUCTURE REQ'TS ARE SPECIFIED IN TOWN STDs, AND ROAD SECTION TYPICALS.

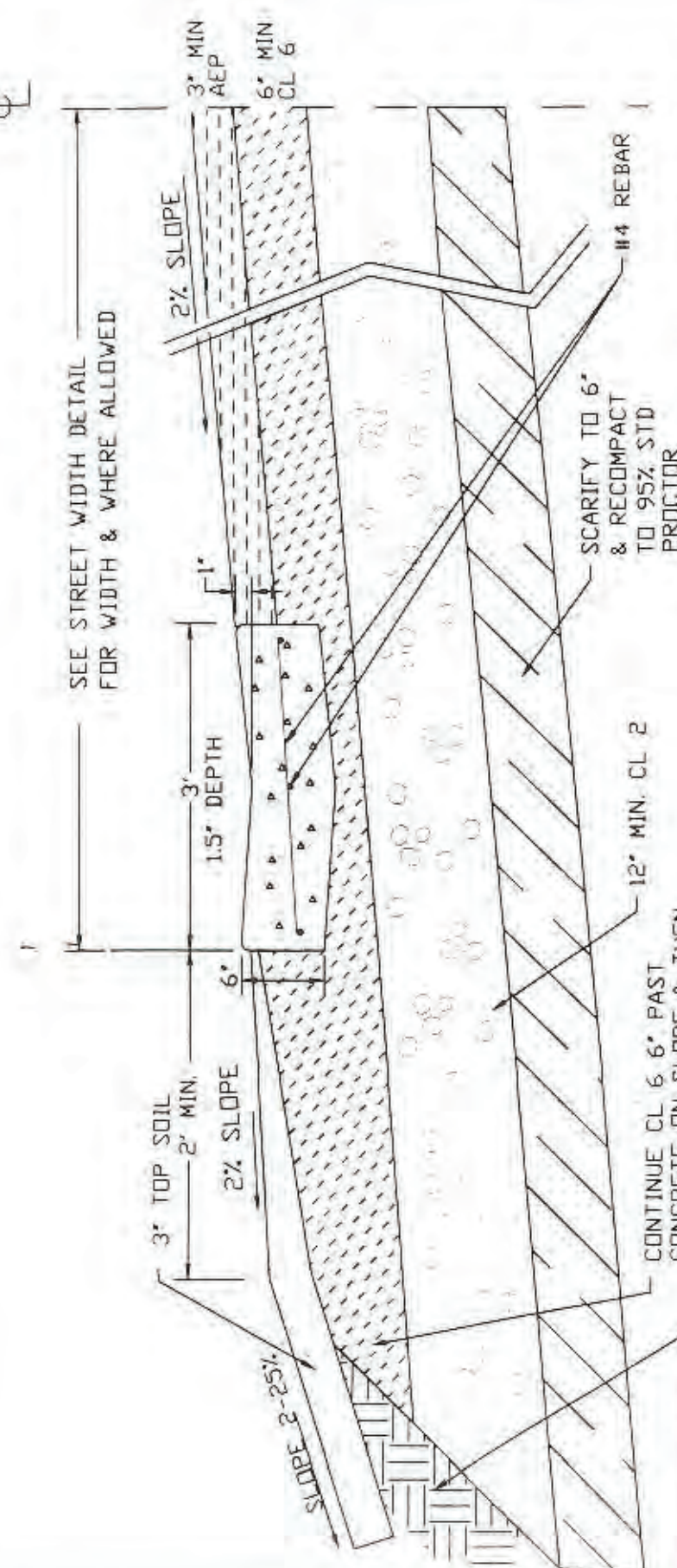
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DATE:
6/06

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DRN:

4



BASE MATERIALS TO BE COMPACTED TO 95% MIN. MODIFIED PROCTOR AT +/- 2% OPT. MOISTURE. ASPHALT TO BE COMPACTED TO 95% MAX. DENSITY

TYPICAL ROAD SECTION WITH PAN

STREETS WITH LOADS GREATER THAN A TYPICAL RESIDENTIAL STREET MAY REQUIRE ADD'L ROAD STRENGTH BASED ON ANTICIPATED TRAFFIC LOADS AS DESIGNED BY APP'D GEOTECHNICAL ENGINEER

TOPSOIL CAN BE NATIVE MATERIALS CAPABLE OF SUPPORTING VEGETATIVE GROWTH

TOWN OF RIDGWAY	
DATE: 6/06	CONSOLIDATED CONSULTING SERVICES
DRN:	TYP ROAD SECTION

SEE CURB, GUTTER & SIDEWALK
DETAIL FOR DIMENSIONS

SEE STREET WIDTH DETAIL

2% SLOPE

3" AEP MIN.
95% MAX DENSITY
6" MIN. CLASS 6

12" MIN. CLASS 2
OR ALT. APP'D DESIGN

SCARIFY TO 6" &
RECOMPACT TO
95% STD PROCTOR

BASE MATERIALS TO BE COMPACTED
TO 95% MIN. MODIFIED PROCTOR AT
+/- 2% OPT. MOISTURE

TYPICAL ROAD SECTION WITH VERTICAL CURB

STREETS WITH LOADS GREATER THAN
A TYPICAL LOCAL RESIDENTIAL STREET
MAY REQUIRE ADD'L ROAD STRENGTH
BASED ON ANTICIPATED TRAFFIC
LOADS AS DESIGNED BY APP'D
GEOTECHNICAL ENGINEER

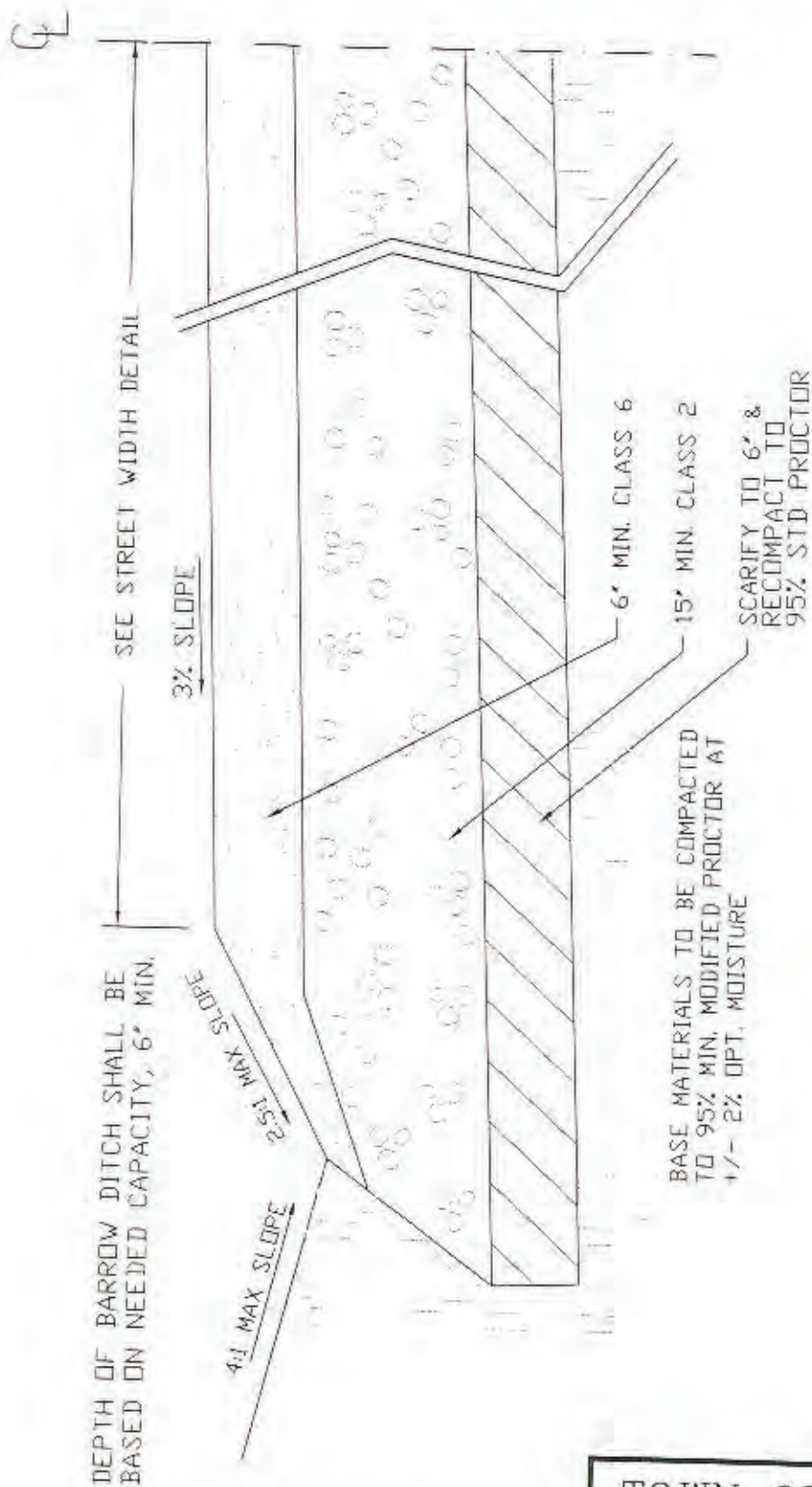
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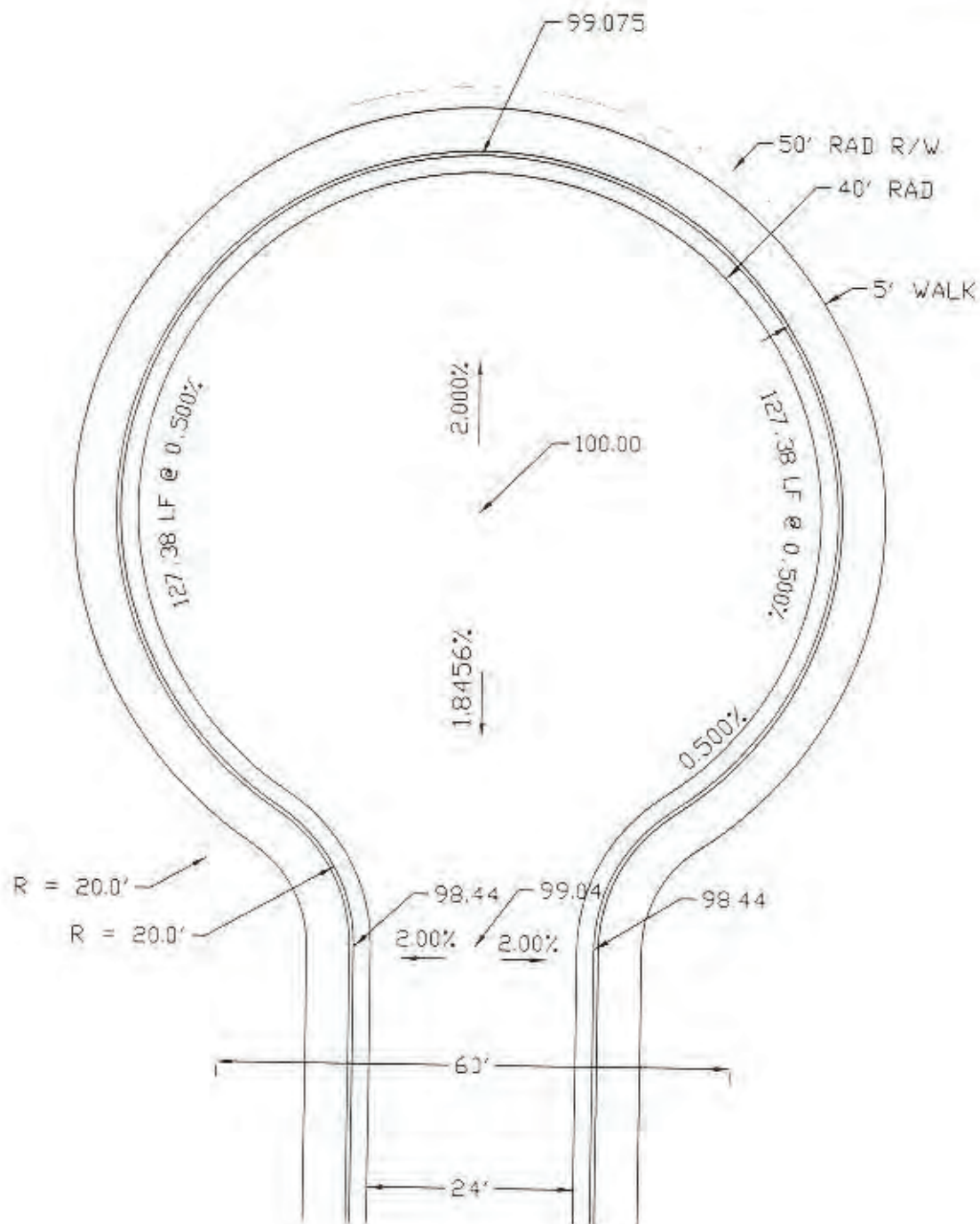
DRN

TYP PAVED STREET



TYPICAL ROAD SECTION GRAVEL STREET

TOWN OF RIDGWAY	
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ORN:	TYP GRAVEL STREET



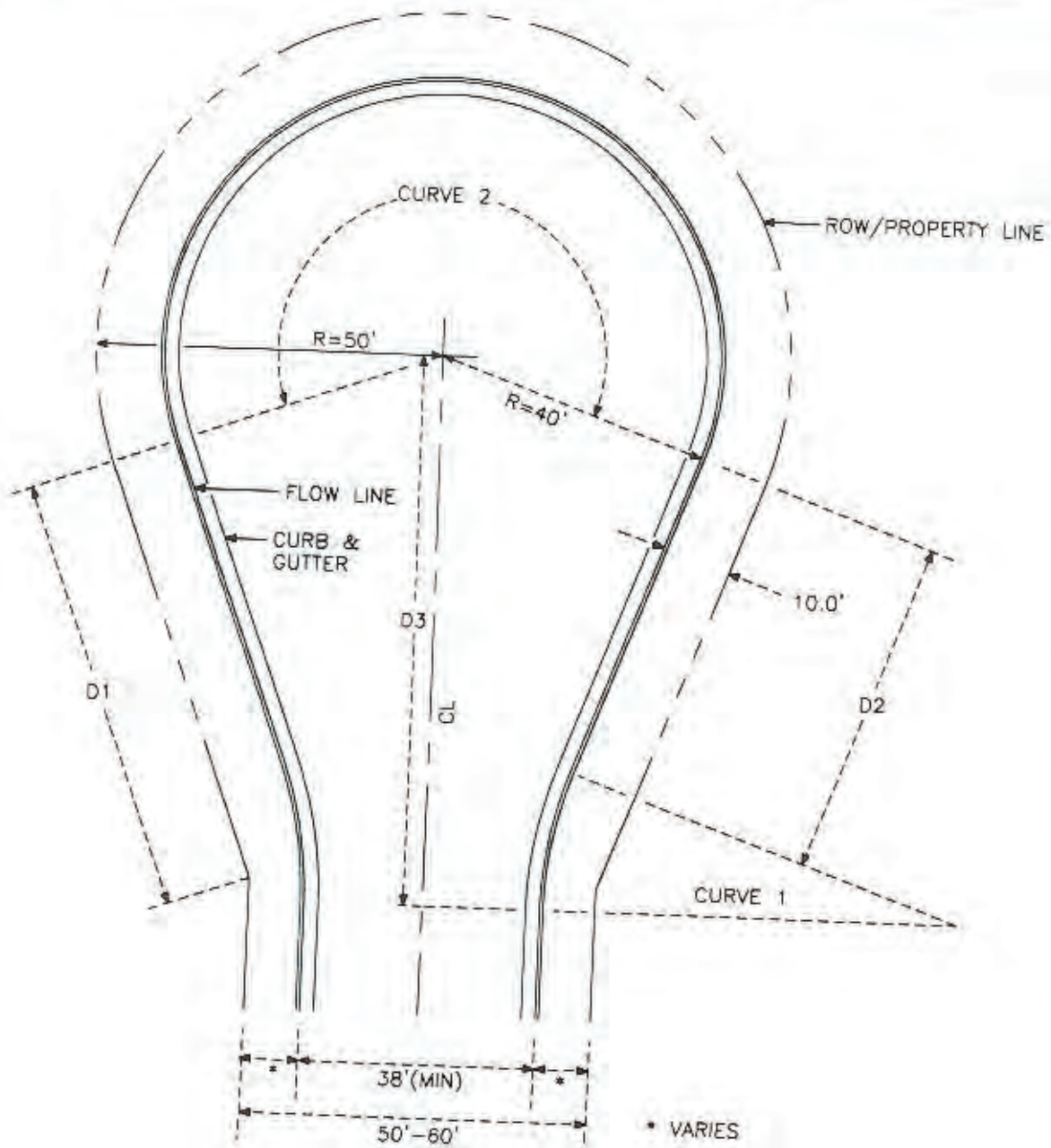
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2/01

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DRN:

CUL DE SAC TYPICAL



CURVE 1				CURVE 2			
△	CURB			△	CURB		PROP.
	R	L	T		R	L	R L
20°00'00"	60.0'	20.94'	10.58'	220°00'00"	40.0'	153.59'	50.0' 191.99'
STREET WIDTH		D1		D2		D3	
38' (MIN)		64.28'		49.61'		80.82'	

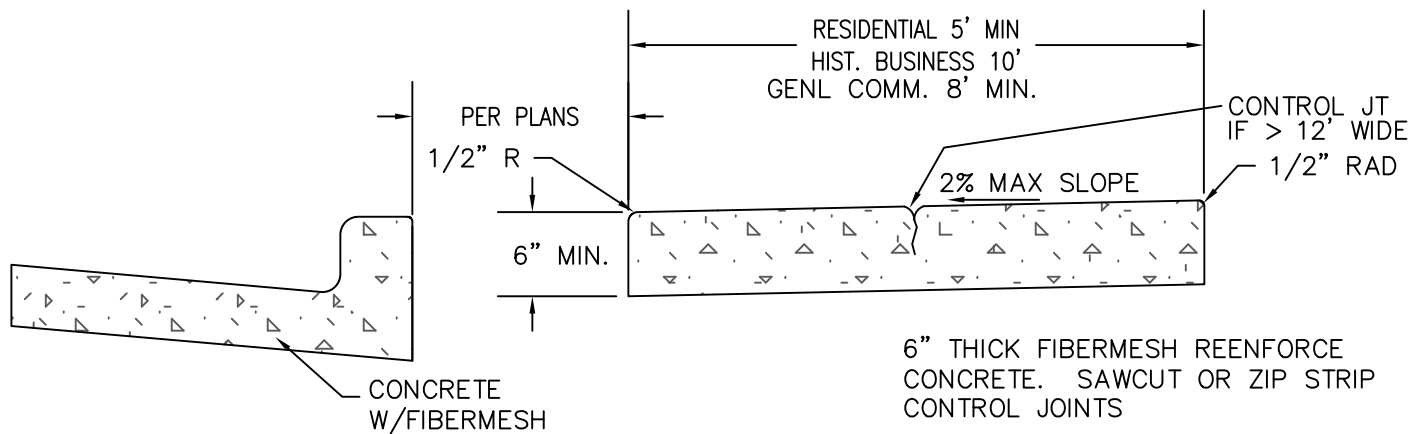
TOWN OF RIDGWAY

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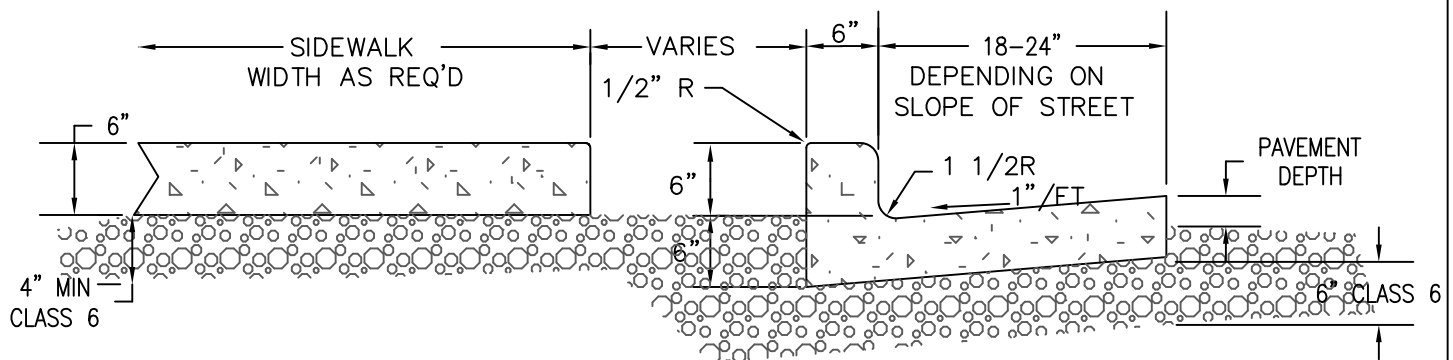
DRN:

CUL DE SAC (ALT)



SIDEWALK DETAIL

N.T.S.

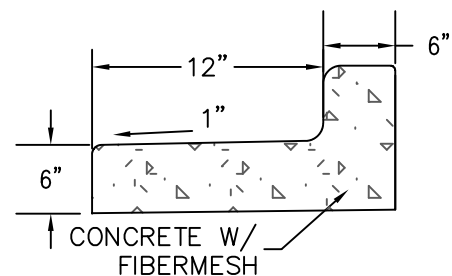


CURB AND GUTTER

N.T.S.

NOTES:

1. WHERE TOWN ALLOWS SIDEWALK TO BE PLACED ONLY ON ONE SIDE OF THE RIGHT OF WAY, THE STREET SHOULD BE OFFSET IN THE R/W & THE SIDEWALK WIDTH INCREASED TO 8' MIN.
2. SIDEWALK WIDTHS IN OTHER ZONES SHALL BE AT LEAST 8' UNLESS OTHERWISE ALLOWED BY THE TOWN.
3. CURB CUTTERS SHALL CONFORM WITH A.D.A. REQUIREMENTS



TIP OUT CURB & GUTTER

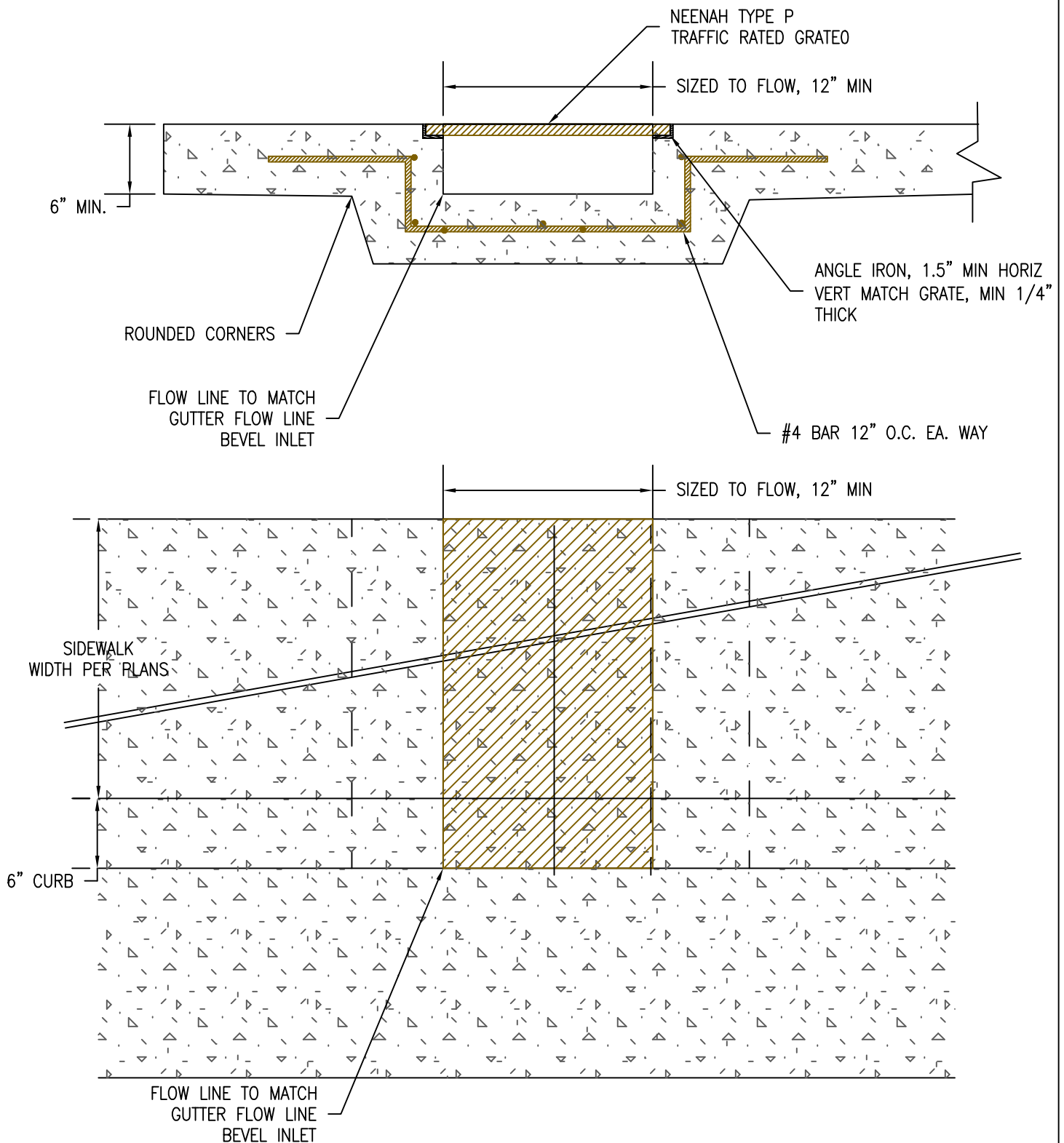


TOWN OF RIDGWAY
P.O. BOX 10 - 201 N RAILROAD
RIDGWAY, CO 81432
970.626.5308
www.town.ridgway.co.us

CURB, GUTTER, SIDEWALK DETAIL

DATE: 6/10/20

SHEET:

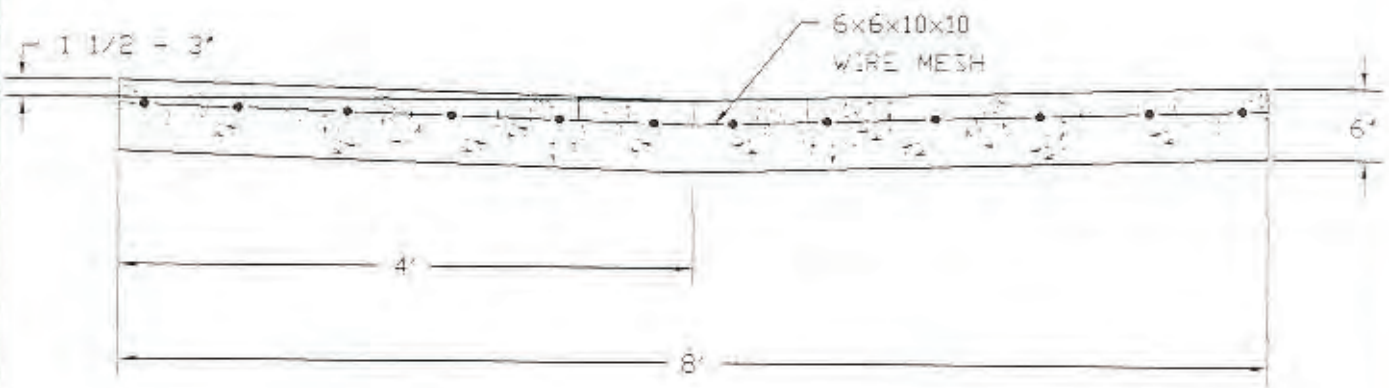


TOWN OF RIDGWAY
P.O. BOX 10 - 201 N RAILROAD
RIDGWAY, CO 81432
970.626.5308
www.town.ridgway.co.us

SIDEWALK DRAIN BOX

DATE: 6/10/20

SHEET:



VALLEY DRAIN DESIGN

N.T.S.

VALLEY PAN DETAILS

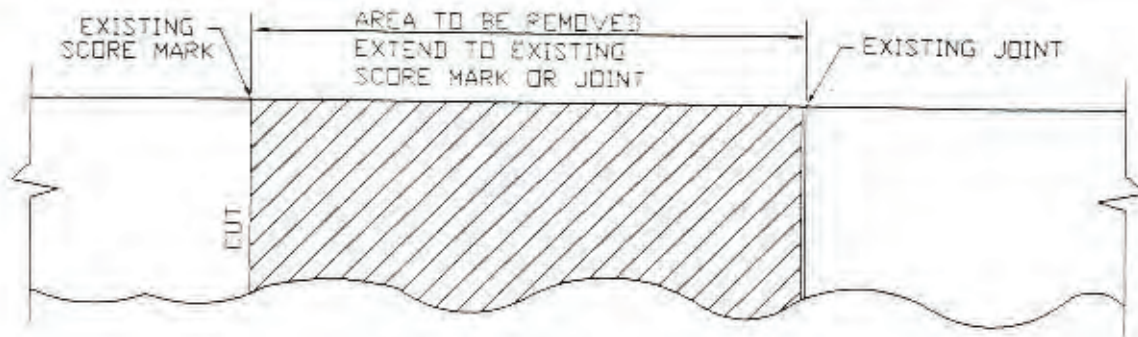
TOWN OF RIDGWAY

DATE:
2/01

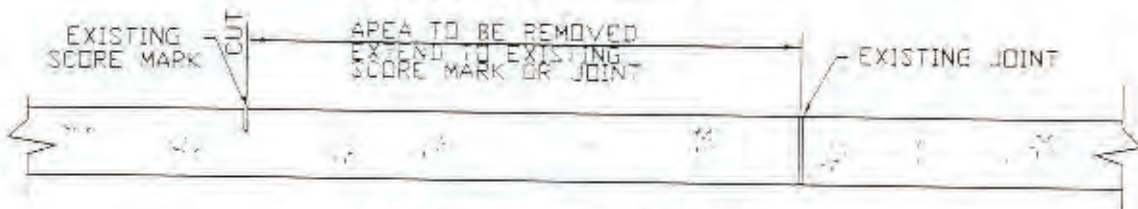
CONSOLIDATED
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QRN:

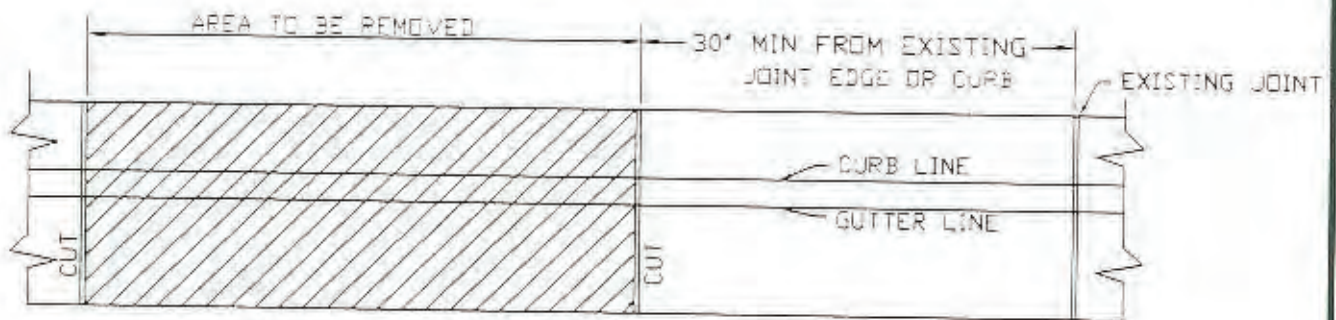
VALLEY PAN DETAIL



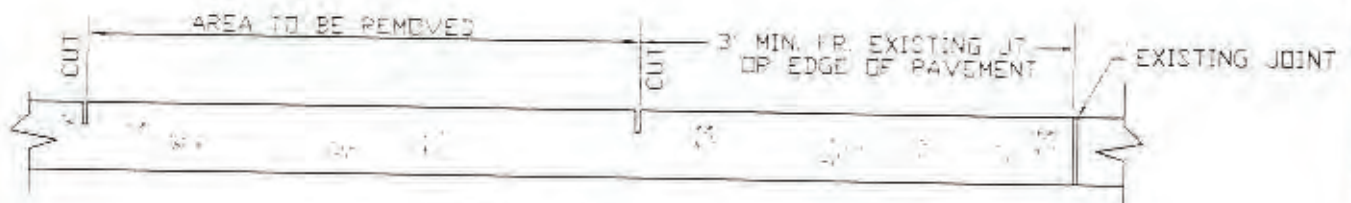
SIDEWALK PLAN



SIDEWALK SECTION

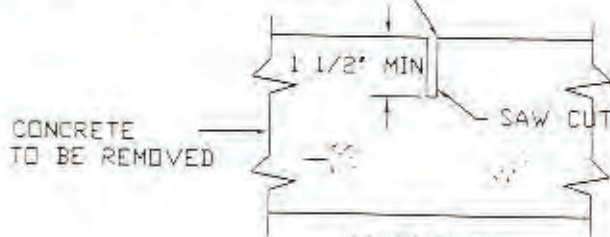


CURB PLAN



PAVEMENT SECTION

REMAINING EDGE TO BE SMOOTH
AND TRUE WITH NO SHATTER



SECTION
SHOWING CUT

WHEN DISTANCE FROM 'AREA TO
BE REMOVED', TO EXISTING JOINT
IS LESS THAN MINIMUM SHOWN,
'AREA TO BE REMOVED' SHALL
BE EXTENDED TO THAT JOINT
OR SCORE MARK.

TOWN OF RIDGWAY

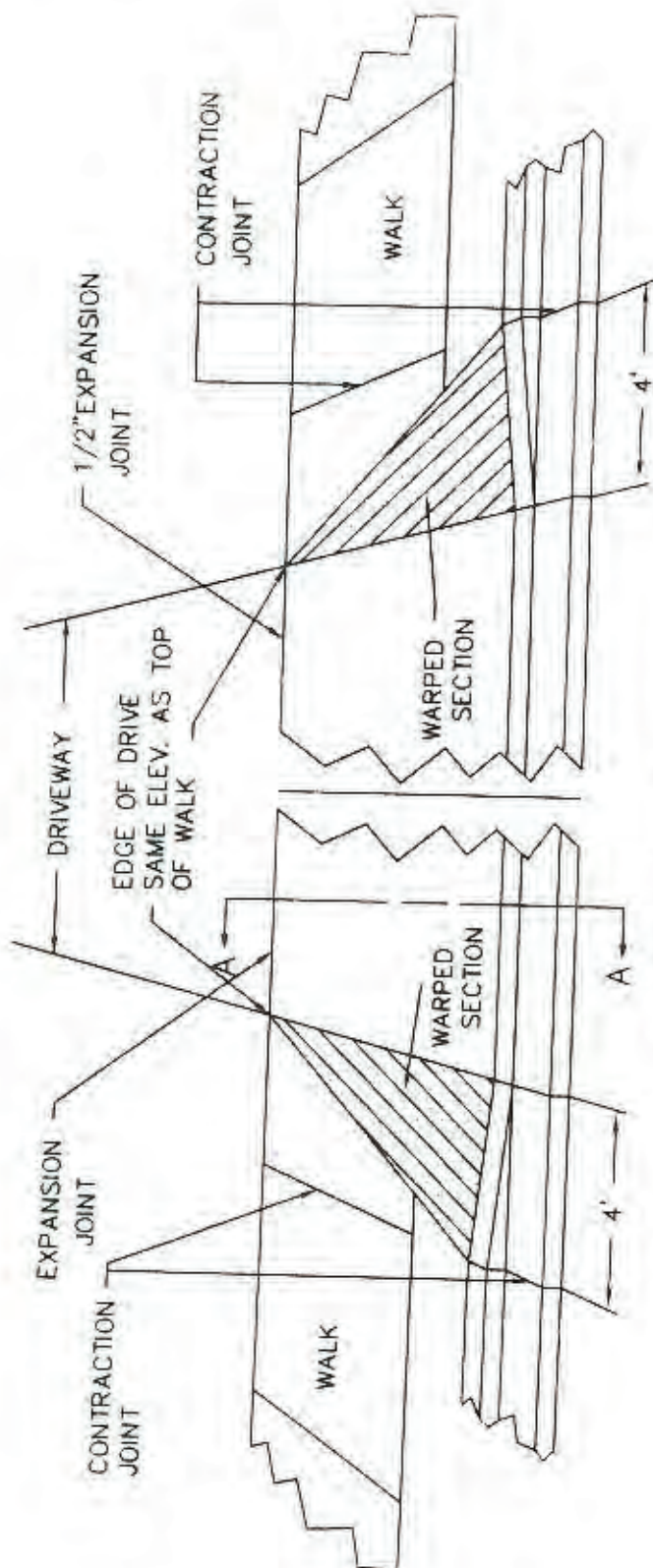
DATE:
2/01

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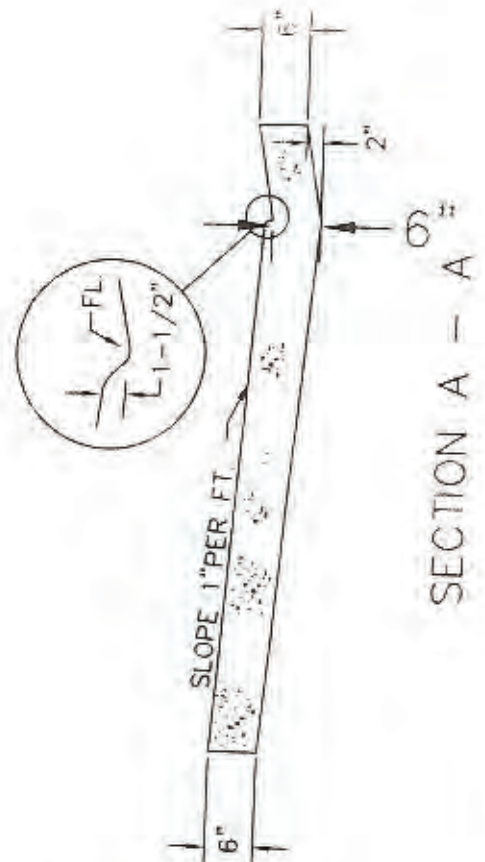
ORN:

PAVEMENT REMOVAL

PAVEMENT REMOVAL & REPLACEMENT



PERSPECTIVE VIEW



SECTION A - A

DRIVEWAY WIDTH

MINIMUM	12'
1, 2 FAMILY	22'
RESIDENTIAL, MAX	25'
BUSINESS, MAX,	35'

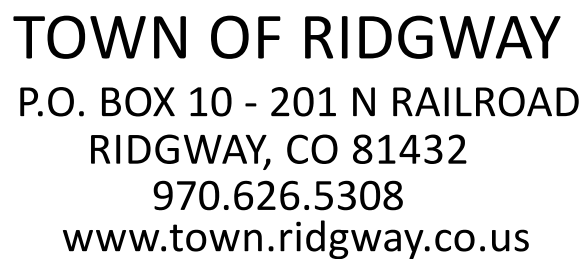
NOTES:

1. WHEN STREETS ARE HARD SURFACED DRIVEWAY SHALL BE HARD SURFACED FROM PROPERTY LINE TO THE STREET
2. DRIVEWAY WARP SECTIONS MUST MEET ADA.

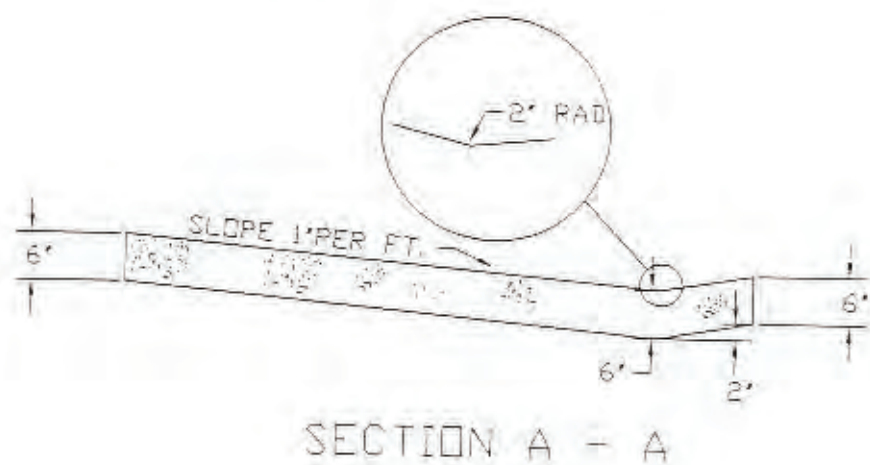
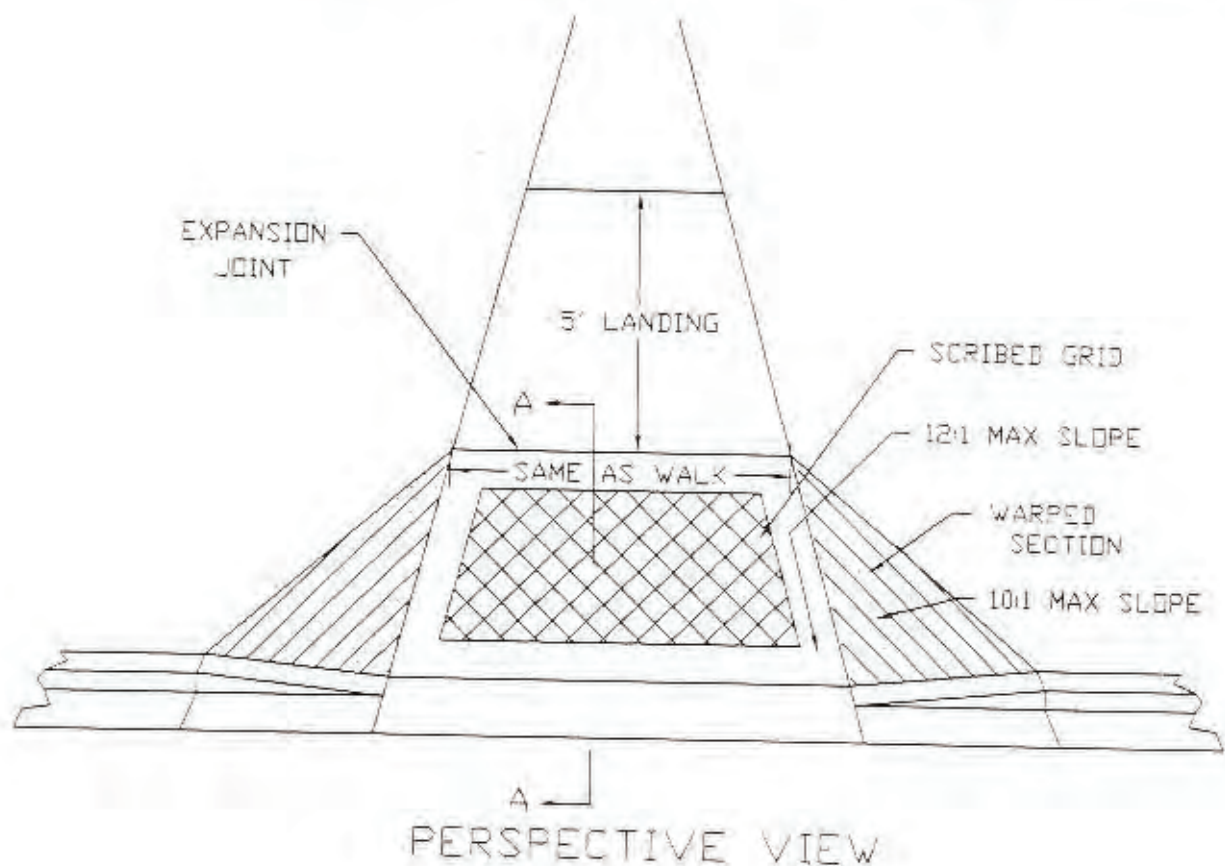
3/12/07 - ADD NOTE RE: SURFACING

DRIVEWAY DETAILS

CHK:	TOWN OF RIDGWAY
DATE: 3/07	CONSOLIDATED CONSULTING SERVICES PO BOX 738, DELTA, CO. 81626
CRN: #_TYP	DRIVEWAY DETAILS



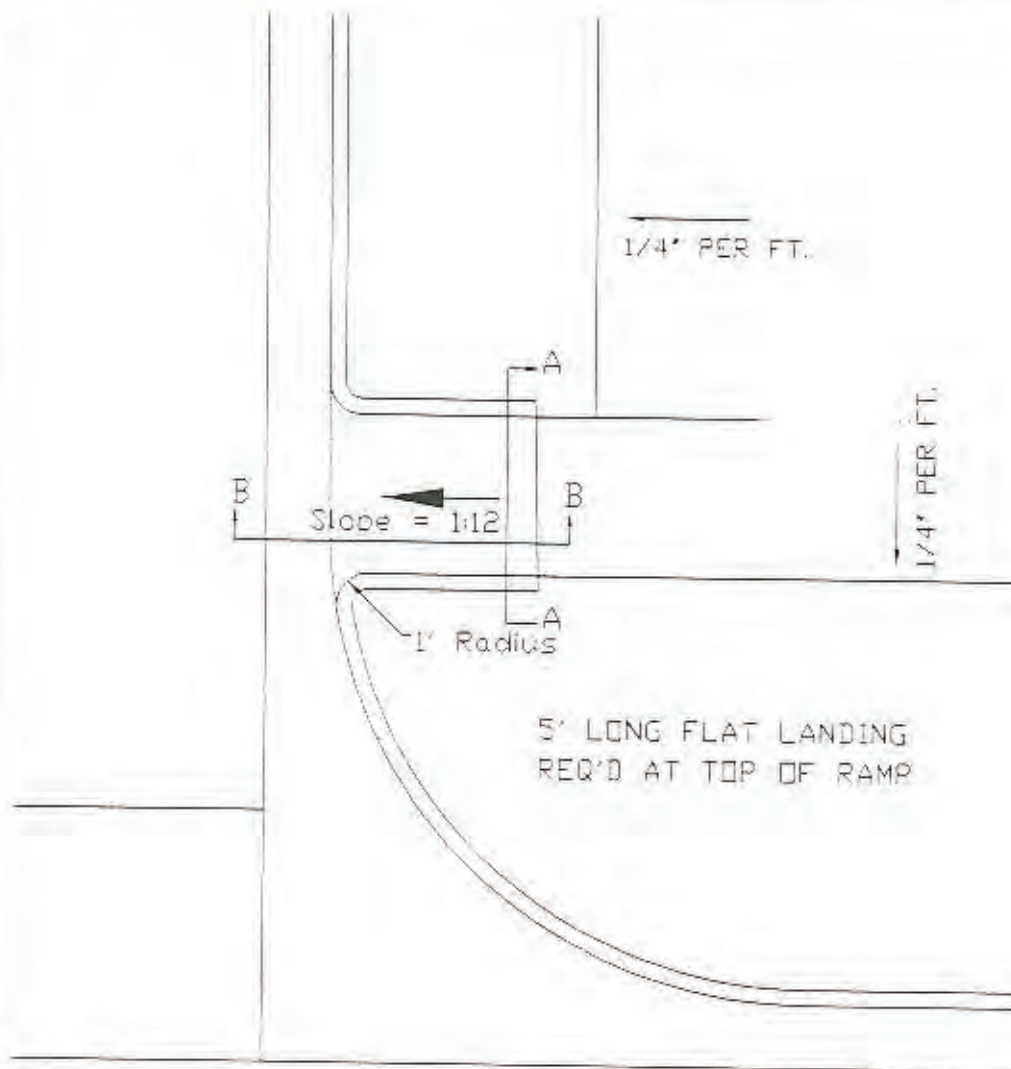
DATE: 6/10/20 SHEET:



WHEEL CHAIR ACCESSIBLE TYPICAL

WALKWAYS AND CURB CUTS
SHALL CONFORM WITH
CURRENT A.D.A. REQ'TS

TOWN OF RIDGWAY	
DATE: 2/01	CONSOLIDATED CONSULTING SERVICES
DRN:	HANDICAP RAMP 1 OF 2



6" CONCRETE

5' WIDE X 6' LONG

WHEEL CHAIR CURBING

TAPERS FROM 10" TO 4"
IN 6 FEET



SECTION A-A



SECTION B-B

WALKWAYS AND CURB CUTS
SHALL CONFORM WITH
CURRENT A.D.A. REQ'TS

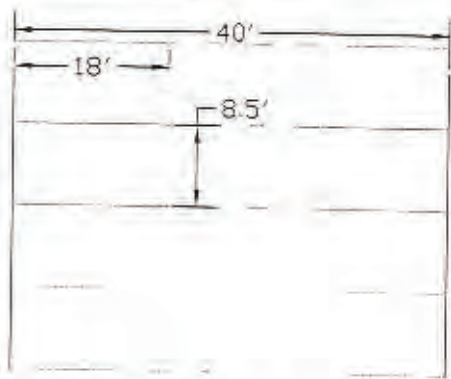
TOWN OF RIDGWAY

DATE:
2/01

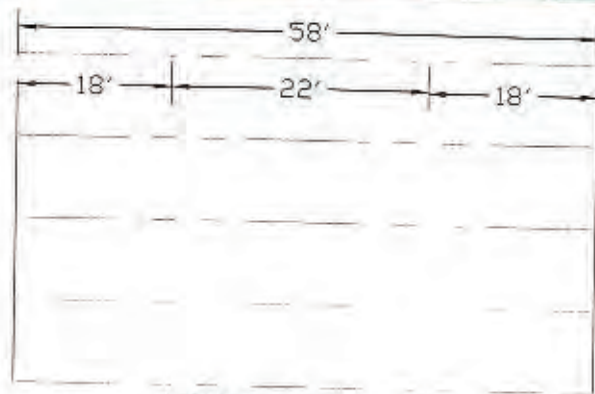
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DRN:

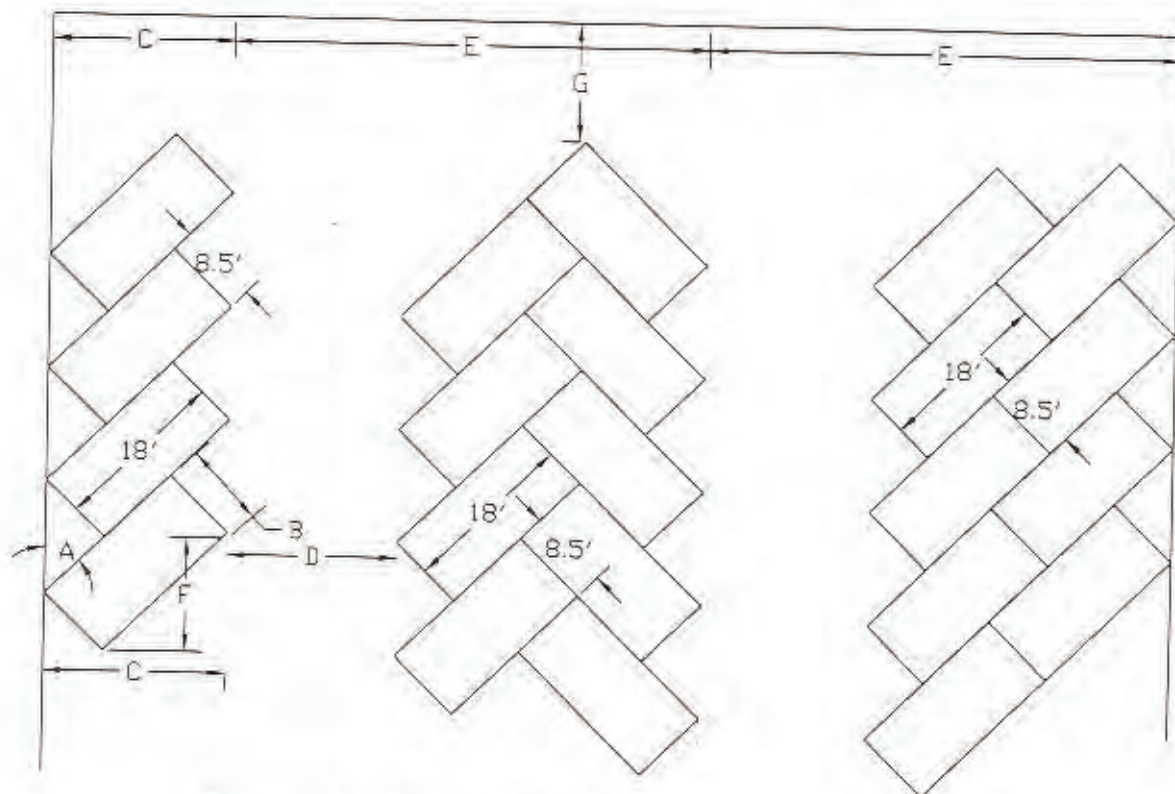
HANDICAP RAMP 2 OF 2



1 ROW



3 ROW 76'
4 ROWS 94'



STALL AND AISLE DIMENSIONS

A	B	C	D	E	F	G	# stalls/ in "X" length	Area/ car
90	8'6"	18'0"	22'0"	58'	8'6"	18'0"	X/8.5	247
60	8'6"	18'10"	17'6"	55'	8'6"	18'0"	(X-11)/9.8	270
45	8'6"	17'6"	12'6"	47'	8'6"	18'0"	(X-17)/12	282

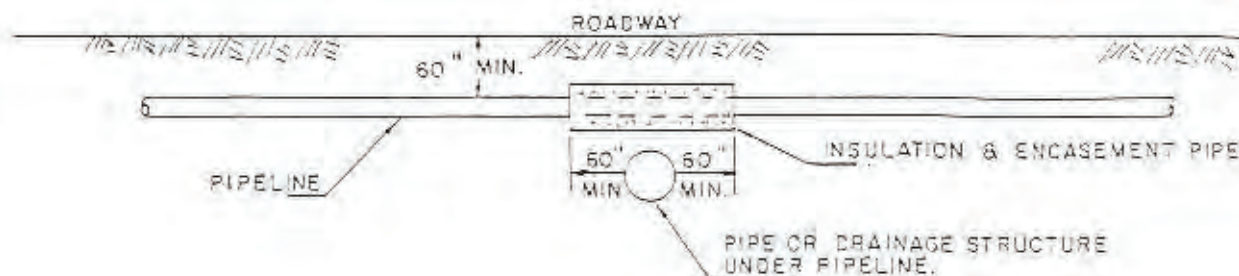
TOWN OF RIDGWAY

DATE:
2/01

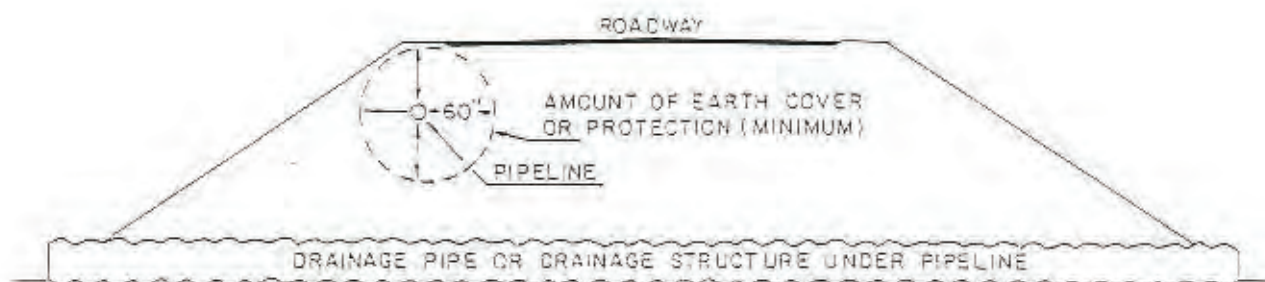
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DRN:

PARKING LOT SPACING

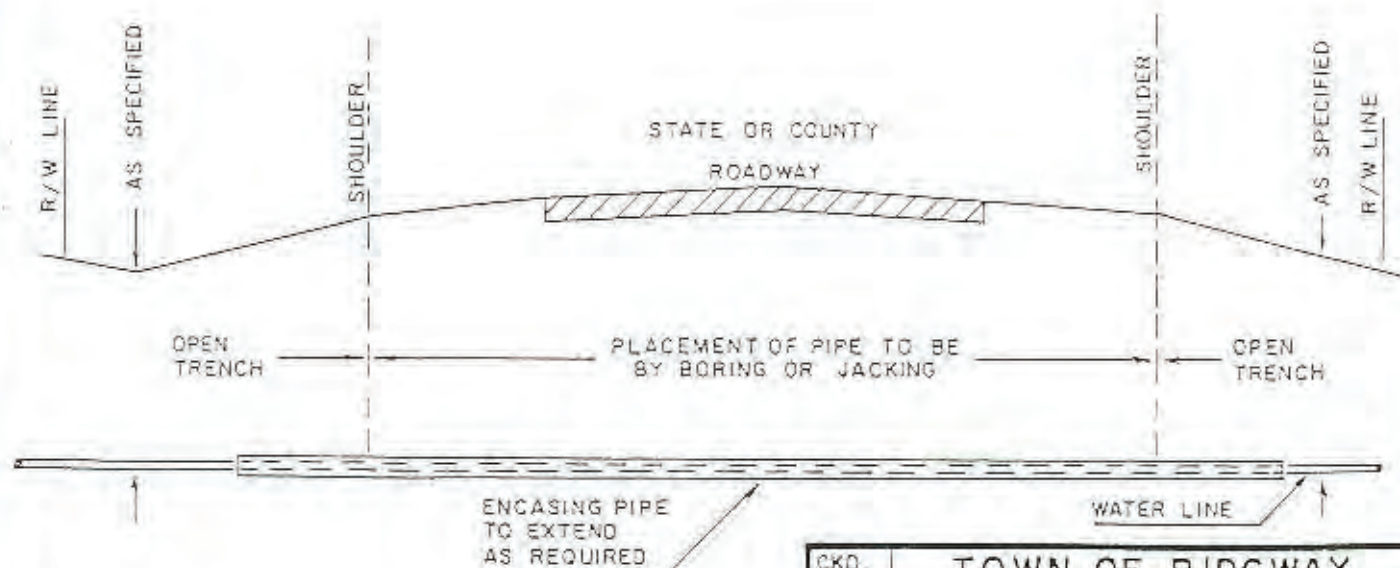


NOTE: FOR INSULATION AND ENCASUREMENT OF PIPELINE SEE "DETAILS OF INSULATED PIPE" DRAWING.



NOTE: IF THERE IS LESS THAN 60" OF COVER MATERIAL AROUND PIPELINE, THEN THE PIPE MUST BE INSULATED.

IF THERE IS LESS THAN 24" OF COVER THE PIPELINE & INSULATION MUST HAVE AN ENCASUREMENT PIPE AROUND IT.



NOTE: ENCASING PIPE TO EXTEND FROM RIGHT-OF-WAY LINE TO RIGHT-OF-WAY LINE ON STATE HIGHWAY CROSSINGS.

CKD.	TOWN OF RIDGWAY
	ROADWAY CROSSINGS
DATE	CONSOLIDATED
	CONSULTING
	SERVICES
DRN.	