

THE TOP OF THE PIPE. THE HEIGHT-OF-COVER SHALL MEET THE MINIMUM REQUIREMENTS SHOWN IN THE TABLE BELOW. THE USE OF HEAVY CONSTRUCTION EQUIPMENT NECESSITATES GREATER PROTECTION FOR THE PIPE THAN FINISHED GRADE COVER MINIMUMS FOR NORMAL HIGHWAY TRAFFIC.

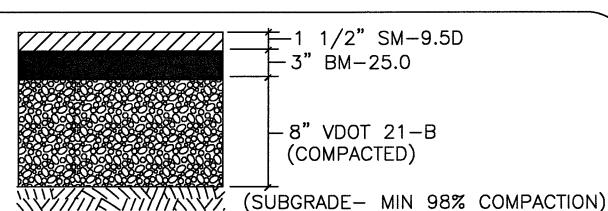
PIPE SPAN, INCHES	AXLE LOADS (kips)			
	18-50	50-75	75-110	110-150
	MINIMUM COVER (FT)			
12-42	2.0	2.5	3.0	3.0
48-72	3.0	3.0	3.5	4.0
78-120	3.0	3.5	4.0	4.0
126-144	3.5	4.0	4.5	4.5

\*MINIMUM COVER MAY VARY, DEPENDING ON LOCAL CONDITIONS. THE CONTRACTOR MUST PROVIDE THE ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE PIPE. MINIMUM COVER IS MEASURED FROM THE TOP OF THE PIPE TO THE TOP OF THE MAINTAINED CONSTRUCTION ROADWAY SURFACE.

DETAIL COURTESY OF CONTECH ENGINEERED SOLUTIONS

## **EXISTING 60" CMP CONSTRUCTION** LOADING DIAGRAM

THIS DETAIL IS GENERIC IN NATURE TO AID IN CONSTRUCTION. THE G.C. SHALL BE RESPONSIBLE FOR ENSURING NO DAMAGE TO THE EXISTING FACILITY. BALZER AND ASSOCIATES HAS NOT FIELD VERIFIED ANY DIMENSIONS SUCH AS PIPE DIAMETER, INVERTS, OR ELEVATIONS NOR THE CONDITION OF THE EXISTING STRUCTURE AND THEREFORE ASSUMES NO RESPONSIBILITY FOR DAMAGE TO THE EXISTING STRUCTURE RESULTING FROM CONSTRUCTION RELATED ACTIVITIES.



## **ELECTRIC ROAD PAVEMENT SECTION**

NOTE: G.C. SHALL MATCH EXISTING PAVEMENT SECTION IF GREATER

STONE BASE MUST BE PLACED IN TWO LIFTS OF NOR MORE THAN 4" EACH. A TACK COAT SHALL BE APPLIED BETWEEN ASPHALT PAVEMENT LAYERS. G.C. TO ENSURE A MINIMUM OF 95% COMPACTION OF THE SUBGRADE PRIOR TO STONE/ASPHALT PLACEMENT.

GEOTECHNICAL ENGINEER SHALL EVALUATE SUBGRADE PRIOR TO PLACEMENT



LUP-OCPR LAND USE PERMIT **Open Cut Pavement Restoration** 

EXPENSE. METER BOX, SERVICE, AND SETTER TO BE FURNISHED AND INSTALLED BY OWNER/DEVELOPER IN

ACCORDANCE WITH WATER DISTRIBUTION PIPING SPECIFICATION. SERVICE SADDLES FOR PLASTIC PIPE SHAL

BE: POWERSEAL 3417, OR 3412AS, ROMAC 202S, OR 306, OR FORD METER FS202 OR FS303. FOR DUCTILE IRON

METER BOXES LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC SHALL BE CONCRETE WITH H-20 RATED

SERVICE SHALL BE "K" TYPE COPPER OR P.E. 4710 ,CTS O.D., MINIMUM CELL CLASS 445474E AND 445474D.

RAFFIC BEARING HATCH. ALL OTHER METER BOXES SHALL BE CARSON/MID-STATES PLASTICS, INC. PLASTI

BOX. ADS CORRUGATED HOPE BOX. OR APPROVED EQUAL. MINIMUM METER BOX & LID DIAMETERS SHALL BE IN

COPPER METER SETTER TO BE FORD, A.Y. MCDONALD OR APPROVED EQUAL WITH ANGLE DUAL CHECK VALVE

SERVICES REQUIRING METERS LARGER THAN 2-INCH SHALL BE REVIEWED BY THE PARTICIPATING UTILITY ON A

NON TRAFFIC BEARING LOCATION

ER BOX DIA. LID DIA. COVER & LID MOD

20" AY MCDONALD 74M2

ANGLE DUAL CHECK VALVE

5/8" 18" 11½" FORD MC-24-T OR

1 1/2"-2" 30" 20" AY MCDONALD 74M30

SEE NOTE 5

SFE NOTES 2 & 3

BRONZE DISK METER -

SHUTOFF

MIN. 6" STONE

WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL

METER SIZES 5/8" - 2"

VDOT 57

SADDLES MUST BE USED WITH ALL PLASTIC & DUCTILE IRON PIPE. SERVICE SADDLES SHALL BE USED IN

CORDANCE WITH THE MINIMUM REQUIREMENTS SHOWN BELOW.

ACCORDANCE WITH SIZING CHART BELOW.

SIZED IN ACCORDANCE WITH DIMENSIONAL

LOCKABLE SHUTOFF

REMENTS SHOWN BELOW.

AND BYPASS HAVING LOCKABLE SHUTOFF VALVE.

AFFIC BEARING VAULT AND H-20 RATED HATCH SHALL

BRONZE DISK METER -

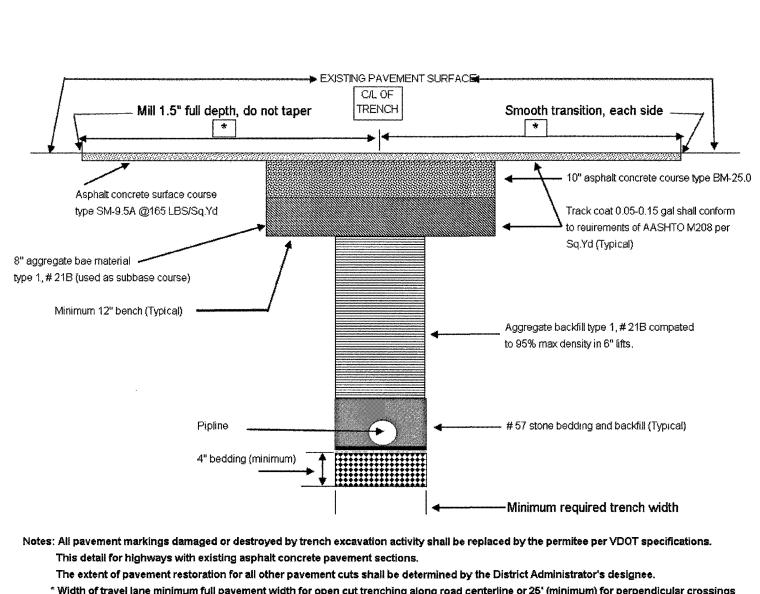
ANGLE DUAL CHECK VALVE -

SEE NOTE 5 HATCH SHALL BE BILCO

--- SEE NOTES 2 & 3 MODEL J-3ALH20 (3'0"X2'6") OR

PIPE USE THE ABOVE OR POWERSEAL 3413, ROMAC 202 OR FORD METER F202.

ORPORATION STOP SHALL BE FORD F1000-4-G, MUELLER H-15000 OR APPROVED EQUAL.



\* Width of travel lane minimum full pavement width for open cut trenching along road centerline or 25' (minimum) for perpendicular crossings

Not to Scale

## **VDOT OPEN CUT PAVEMENT** RESTORATION DETAIL

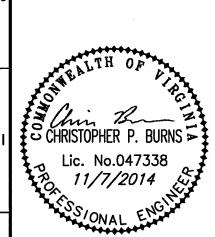
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New River Valley Richmond Harrisonburg

SITE DEVELOPMENT ENGINEERING LAND USE PLANNING & ZONING LANDSCAPE ARCHITECTURE LAND SURVEYING ARCHITECTURE STRUCTURAL ENGINEERING TRANSPORTATION ENGINEERING ENVIRONMENTAL & SOIL SCIENCE VETLAND DELINEATIONS & STREAM EVALUATIONS

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DESIGNED BY

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