UTILITY NOTES

- 1. ALL INSTALLATION AND TESTING SHALL BE IN ACCORDANCE WITH THE AFFECTED UTILITY'S STANDARDS.
- 2. INSTALL AND TEST SEWER SYSTEM IN ACCORDANCE WITH THE DISTRICT'S STANDARDS
- 3. INVERTS FOR TIE-INS FROM FOUNDATION DRAINS ARE NOT SHOWN, MAINTAIN A POSITIVE SLOPE TO CONNECTION OR OUTLET. CONNECT OR OUTLET AS SHOWN ON PLANS.
- 4. WATER MAIN TO HAVE A MINIMUM 5.5' OF COVER, WHERE THE WATER MAIN CROSSES OTHER UTILITIES IT MAY NEED TO BE DEEPER.
- 5. PRECAST MANHOLE AND CATCH BASIN COMPONENTS TO COMPLY WITH ASTM C478.
- 6. LIMIT OF ROCK PAYMENT:

PRECAST CONCRETE STRUCTURES: DEPTH: 12" BELOW STRUCTURE, WIDTH: STRUCTURE O.D. + 2'

TRENCHES: DEPTH: 6" BELOW PIPE OR CABLE INVERT, WIDTH: PIPE O.D. OR CABLE + 12", MIN. 3' WIDE

PAVED SURFACES: BOTTOM OF SUBBASE RELATIVE TO FINISH SURFACE

7. IDENTIFICATION TAPE TO BE INSTALLED ABOVE ALL NEW UNDERGROUND UTILITIES AND ABOVE ANY EXISTING UTILITIES THAT MAY BE EXPOSED BY THIS CONSTRUCTION.

DETECTABLE UNDERGROUND MARKING TAPE TO BE PERMANENT, BRIGHT-COLORED, CONTINUOUS-PRINTED PLASTICIZED ALUMINUM TAPE, INTENDED FOR DIRECT-BURIAL SERVICE NOT LESS THAN 3" WIDE x 5 MILS THICK. PROVIDE TAPE WITH BLACK PRINTING IDENTIFYING THE UTILITY. DETECTABLE WARNING TAPE REQUIRED OVER ALL WATER, SEWER, DRAINAGE, OR GAS UTILITIES. TAPE TO BE TERRA TAPE BY REEF INDUSTRIES INC., www.reefindustries.com, OR EQUAL.

APWA UNIFORM COLOR CODE: PROPOSED EXCAVATION

PINK TEMPORARY SURVEY MARKINGS

ELECTRIC POWER LINES, CABLES, CONDUIT AND LIGHTING CABLES YELLOW GAS, OIL, STEAM, PETROLEUM OR GASEOUS MATERIALS ORANGE COMMUNICATION, ALARM OR SIGNAL LINES, CABLES OR CONDUIT

POTABLE WATER PURPLE RECLAIMED WATER, IRRIGATION AND SLURRY LINES GREEN SEWERS AND DRAIN LINES

8. MATERIALS: SEE PLANS FOR SIZES

STORM DRAIN:

TYPICAL: PE NI2, SMOOTH WALL WITHIN ROW OF STATE ROAD:

REINFORCED CONCRETE PIPE

UNDERDRAIN: SANITARY SEWER: PVC SDR 35 MEETING AASHTO H-20 LOADING

PVC, SDR 35 MEETING ASTM D3034 W/ A REMOVABLE GASKET MEETING ASTM D3212

WATER SERVICE:

CTS 200 PSI, PE

FOUNDATION DRAIN:

ROOF DRAIN:

PVC SDR 35

PVC SDR 35

DEPTH OF BITUMINOUS PAVEMENT AND AGGREGATE COURSES SHALL BE DETERMINED BY STREET CLASSIFICATION. 1. ALTERNATIVE CONSTRUCTION METHODS OR PAYMENT METHODS SHALL BE APPROVED IN ADVANCE BY THE CITY.

IN PAVED AREAS, DEPTHS OF GRAVEL AND HOT MIX ASPHALT PAVEMENT SHALL MATCH THE GREATER OF EXISTING CONDITIONS OR THE REQUIREMENTS FOR THE CORRESPONDING STREET CLASSIFICATION.

DIMENSION B SHALL BE SUFFICIENT TO ALLOW CRUSHED STONE BEDDING TO BE PLACED AND COMPACTED UNDER THE HAUNCHES OF THE PIPE; BUT IN ALL CASES ANY ALTERNATE TRENCHING OR PAYMENT METHODS SHALL BE APPROVED IN ADVANCE BY THE CITY OF PORTLAND, DEPARTMENT OF PUBLIC SERVICES... - UNPAVED AREAS PAVED AREAS ----DIMENSION B SHALL BE AT LEAST 9". AGGREGATE SUBBASE COURSE - GRAVEL TYPE "D"-DIMENSION A STALL BE AT LEAST 9

DIMENSION A IS THE MAXIMUM WIDTH ALLOWED FOR

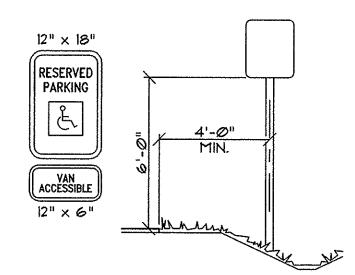
CALCULATING PAY QUANTITIES UNDER GRANULAR BORROW,

CRUSHED STONE, STRUCTURAL EARTH EXCAVATION, AND

STRUCTURAL ROCK EXCAVATION. DIMENSION A AGGREGATE BASE COURSE - CRUSHED, TYPE "B"-HOT BITUMINOUS PAVEMENT GRADING "B"----HOT BITUMINOUS PAVEMENT GRADING "C"-SHALL BE BASED ON PIPE DIAMETER D. AS SET FORTH IN THE FOLLOWING TABLE. GRIND TO PROPER DEPTH -PIPE DIAMETER, D MAX. TRENCH WIDTH, A HALF OF MAX. PAYMENT WIDTH (INCHES) PLUS 12" FOR TRENCH PAVEMENT REPLACEMENT COMMON BACKFILL FROM TRENCH EXCAVATION (INCIDENTAL) OR GRANULAR BORROW (IF ORDERED)-3/4" CRUSHED STONE OR SAND -12" ABOVE TOP OF PIPE. 3/4" CRUSHED STONE-FOR PIPE BEDDING TO PIPE SPRINGLINE ESTABLISHED TRENCH PROFILE -2" CRUSHED STONE -

TYPICAL PIPE TRENCH INSTALLATION (II-12)

NOT TO SCALE



- 1. SIGNS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, HIGHWAYS AND BRIDGES REVISION OF DECEMBER 2002, SECTION
- 2. ALL PERMANENT SIGNS ON THIS PROJECT ARE CLASSIFIED UNDER SECTION 645.03(b) TYPE I REGULATORY WARNING AND ROUTE MARKER ASSEMBLY SIGNS.
- 3. SIGN MATERIAL SHALL BE AS SPECIFIED IN SECTION 719 OF THE MDOT STANDARD SPECIFICATIONS.
- 4. POSTS SHALL BE METAL CHANNELS AS SPECIFIED IN SECTION 720.08. ALTERNATE POSTS MAY BE 4"x6" WOOD AS SPECIFIED IN SECTION 720.12, AS APPROVED BY ENGINEER.
- 5. POSTS IN THE PUBLIC RIGHT-OF-WAY TO BE ON BREAKAWAY POSTS AS SPECIFIED IN SECTION 720 OF THE MDOT STANDARD SPECIFICATIONS.

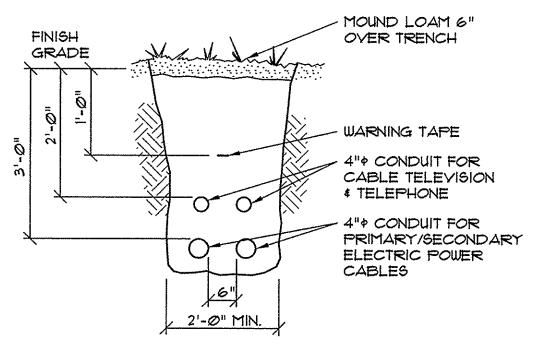
ROAD SIGN LEGEND

NOT TO SCALE

NOT TO SCALE

RIPRAP PAD MUST BE INSTALLED WITHIN 48 HOURS OF INSTALLING NEW PIPE OR CULVERT

PIPE	A	В	С	Þ	E	PAD DEPTH	D ₅₀
4"¢ TO 12"¢	3 FT.	2 FT.	3 FT.	9 FT.	8 FT.	10	4
15"¢	3.75 FT.	2,5 FT.	3.75 FT.	11.5 FT.	10 FT.	15	6
18"¢	4.5 FT.	3 FT.	45 FT.	II.5 FT.	10 FT.	20	8



I. SEE CMP CO. STANDARD TRENCH FOR BACKFILL

3'-0" MIN.

TYPICAL WATER SERVICES

PAYEMENT

SUBBASE -

OVERLAND

MOUND LOAM 6" OVER TRENCH

BACKFILL WITH SUITABLE SOILS FROM ON-SITE EXCAVATION OR IF SUITABLE

SOILS ARE UNAVAILABLE USE GRANULAR

BORROW (MDOT 703.19). SUITABLE SOILS

SHALL MEET THE REQUIREMENTS OF MOOT

703.18. PLACE AND COMPACT IN LAYERS

NOT TO SCALE

- WARNING TAPE

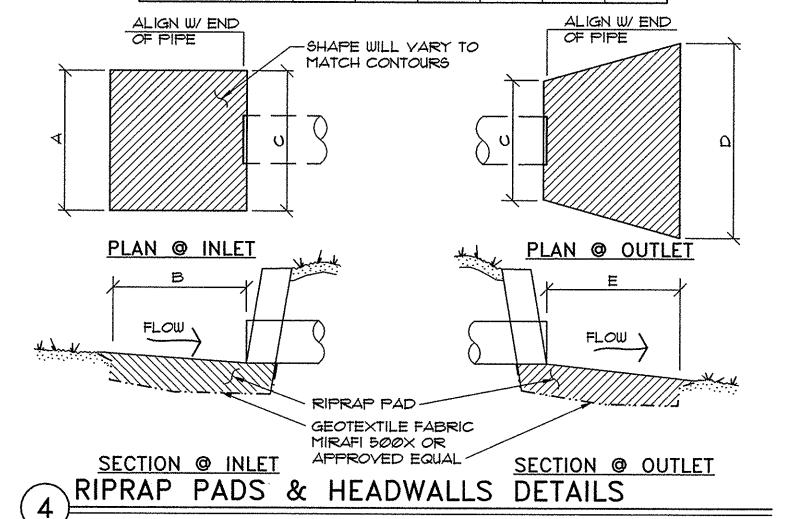
12" THICK OR LESS.

2" DOMESTIC WATERMAIN

MATERIAL REQUIREMENTS. 2. DIRECT BURY CABLES EXCEPT UNDER PAYED AREAS. PROVIDE SCH. 40 PVC CONDUIT UNDER PAVED AREAS EXTEND CONDUIT 5'-0" BEYOND EDGE OF PAVEMENT.

NOT TO SCALE

CABLE TRENCH SECTION



CONSTRUCTION --- 1 1/2" HMA MDOT 9.5mm 3 1/2" HMA MDOT 19.0mm <u>BITUMINOUS</u> - 3" COMPACTED AGGREGATE ACCESS ROAD BASE, MDOT 703.06(a) TYPE A PARKING LOT - 18" COMPACTED AGGREGATE SUBBASE, MDOT 703.06(b) TYPE D - COMPACTED SUBGRADE - 4" TOPSOIL, NO STONES <u>GRASS</u> OVER 3/4" DIA. - GRANULAR MATERIAL IN ALL DISTURBED * · · · * * · · · * · · · * · · · * · · · * · · · FILL AREAS AREAS 3" BARKMULCH PLANT BED C//C//C//C/ BARKMULCH

NOTES:

- HMA = HOT MIX ASPHALT. MDOT = MAINE DEPARTMENT OF TRANSPORTATION.
- 2. ALL COURSE THICKNESS AFTER FINAL COMPACTION.

SCHEDULE OF SURFACE FINISHES

PARKING SPACE

BARRIER FREE STALL SYMBOL

STRIPING DETAILS

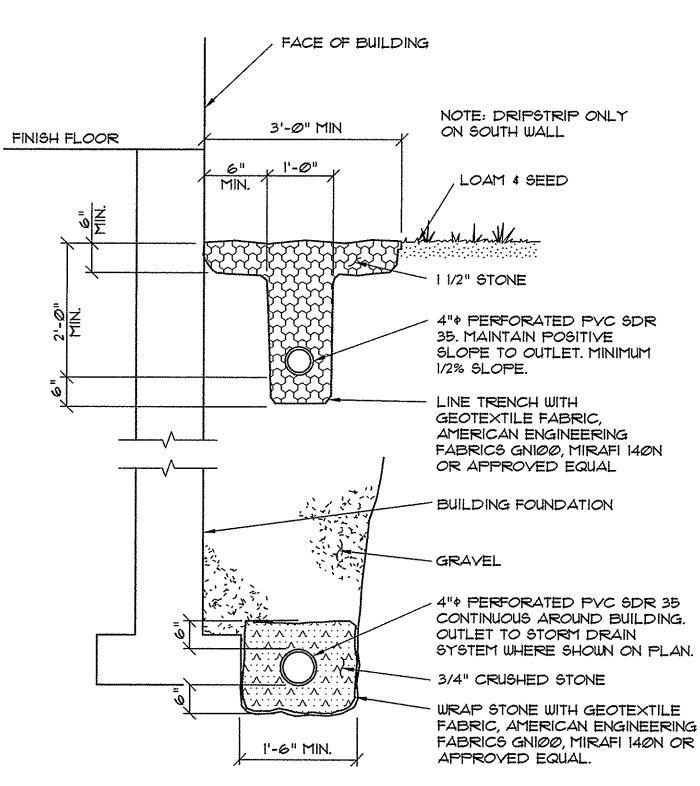
LAYOUT AS "SHOWN ON PLAN"

NOT TO SCALE

NOT TO SCALE

-6'-0"x6'-0" BLUE

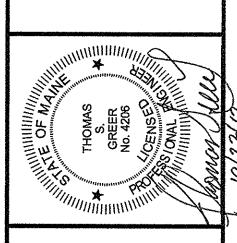
BACKGROUND

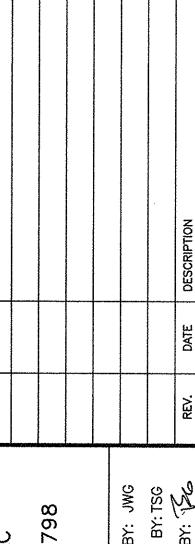


3 DRIPSTRIP & FOUNDATION DRAIN SECTION

NOT TO SCALE

GREE! ENG! PINKHAM & (





0 Ó N DEVEL

DETAILS RAINMAKER RAINMAKER PORTLAND, SITE

MAP/LOT 306/B/6