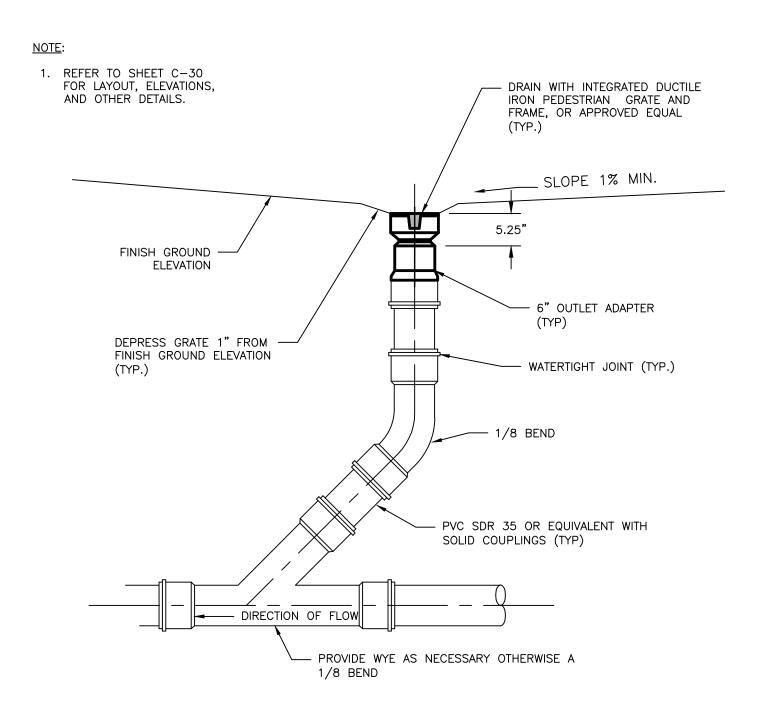


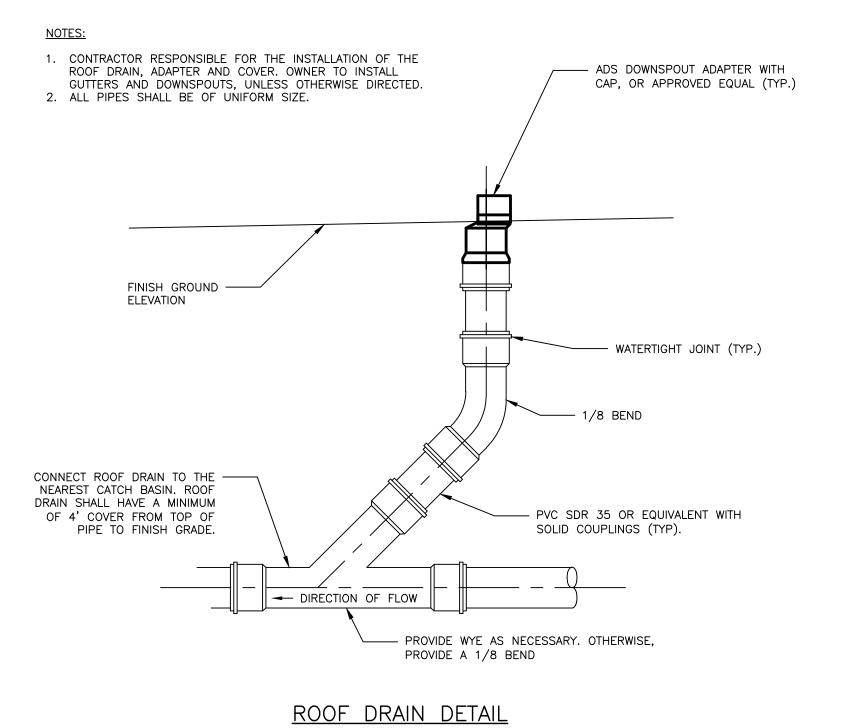
NOT TO SCALE

— 4" LOAM, SEED AND MULCH

4'-0" DIAMETER PRECAST CATCH BASIN NOT TO SCALE







NOT TO SCALE

---- SIDE OF TRENCH MAY BE HMA SURFACE COURSE SLOPED BACK IN (NOTE 7) UNPAVED AREAS ONLY HMA BASE COURSE — (NOTE 7) AGGREGATE BASE COURSE — (NOTE 7) AGGREGATE SUBBASE ---COURSE (NOTE 7) - SELECT BACKFILL SEE TRENCH SCHEDULE OF BACKFILL WITH EXCAVATED MATERIAL MATERIALS OR SELECT BACKFILL AS DIRECTED BY THE ENGINEER. MDOT 703.22 TYPE B UNDERDRAIN BACKFILL SHALL BE USED FOR PERFORATED UNDERDRAIN. — TRENCH WIDTH SHALL BE MAINTAINED TO TOP OF RIGID INSULATION WHERE INDICATED ON THE PLANS. THICKNESS PER NOTE 2. SPECIAL BACKFILL PIPE SIZE AS NOTED ON THE *SEE PAVEMENT SCHEDULE FOR THICKNESS 4/3 I.D. PIPE + 1.5' (MIN. 3') GRANULAR BEDDING SEE TRENCH SCHEDULE OF MATERIALS WIDTH ALLOWABLE PIPE MATERIALS: - REINFORCED CONCRETE PIPE (RCP) MIN. STRENGTH OF CLASS III

PAVED AREAS

NOTES:

PVC RING TYPE SEWER (SDR 35) OR EQUIVALENT, MIN PS-46 RATING
 PVC RING TYPE SEWER PIPE MEETING ASTM F 789

DUCTILE IRON PIPE (DIP)ADS N-12 HP TRIPLE-WALL MIN PS-46 RATING

FINISH GRADE ---

- ADS SANITITE HP MIN. PS-46

SCHEDULE OF MATERIALS		
TYPE OF PIPE	GRANULAR BEDDING	SELECT BACKFILL
CMP DUCTILE IRON RCP	MDOT 703.22 TYPE B UD BACKFILL	MDOT 703.22 TYPE B UD BACKFILL
PVC/HDPE	MDOT 703.22 TYPE C 3/4" CRUSHED STONE	MDOT 703.22 TYPE B UD BACKFILL
СМР	MDOT 703.22 TYPE C 3/4" CRUSHED STONE	MDOT 703.22 TYPE C 3/4" CRUSHED STONE

1. BRACING AND SHEETING OR OTHER TRENCH PROTECTION TO BE PROVIDED TO MEET APPLICABLE STATE AND O.S.H.A. SAFETY STANDARDS. ALL SUCH TRENCH PROTECTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.

2. STORM DRAIN COVER BETWEEN 2' AND 3' SHALL INCLUDE 4" OF RIGID INSULATION. COVER BETWEEN 3' AND 4' SHALL INCLUDE 2' RIGID INSULATION. OTHER UTILITIES: ADD 2" OF

RIGID INSULATION FOR EACH FOOT ABOVE MINIMUM DEPTH.

3. INSTALL WARNING TAPE DIRECTLY ABOVE UTILITIES AT THE TOP OF SUBGRADE.

4. MINIMUM COVER 4.1. 2'-0" - STORM DRAIN

4.2. 5'-0" - SEWER 5. NO TREES SHALL BE PLANTED WITHIN 5' OF A SEWER PIPE

OR SERVICE 6. THIS DETAIL SHALL BE APPLIED ONLY TO DRAINAGE PIPE TRENCHES OUTSIDE OF THE CITY OF PORTLAND ROW.

7. THICKNESS AS NOTED BY SURFACE DETAILS 8. ALL PROPOSED TREES WITHIN 5' PROXIMITY OF THE SEWER PIPE SHALL BE PLANTED AT A DEPTH NO GREATER THAN 3' DEEP. PERMEABLE LANDSCAPE FABRIC SHALL CREATE A ROOT BARRIER AROUND THE SEWER PIPES.

CONTRACTOR SHALL COORDINATE WITH THE LANDSCAPE

STORM DRAIN TYPICAL TRENCH SECTION WITHIN PROPERTY NOT TO SCALE

UNPAVED AREAS

PRELIMINARY NOT ISSUED FOR CONSTRUCTION

PRELIM. APP. AND RENOVATION DETAIL DRAINAGE STREET ME: SPRING 1081_CIV DESIGNED BY: DRAWN BY: CHECKED BY: WILLIAM H SAVAGE

DRAWING NO.