

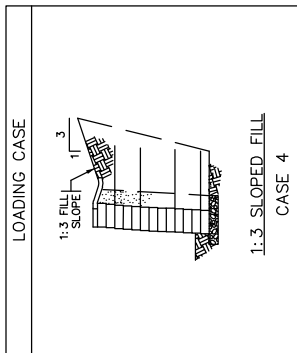


# STANDARD DETAILS

## TYPICAL RETAINING WALL DETAIL

### CITY OF PLYMOUTH

PUBLISHED  
1-20  
CITY PL. NO.  
STRT-32  
REVISED 1-20



DESIGN CRITERIA
SEE SPECIAL PROVISIONS

#### NOTES TO CONTRACTOR:

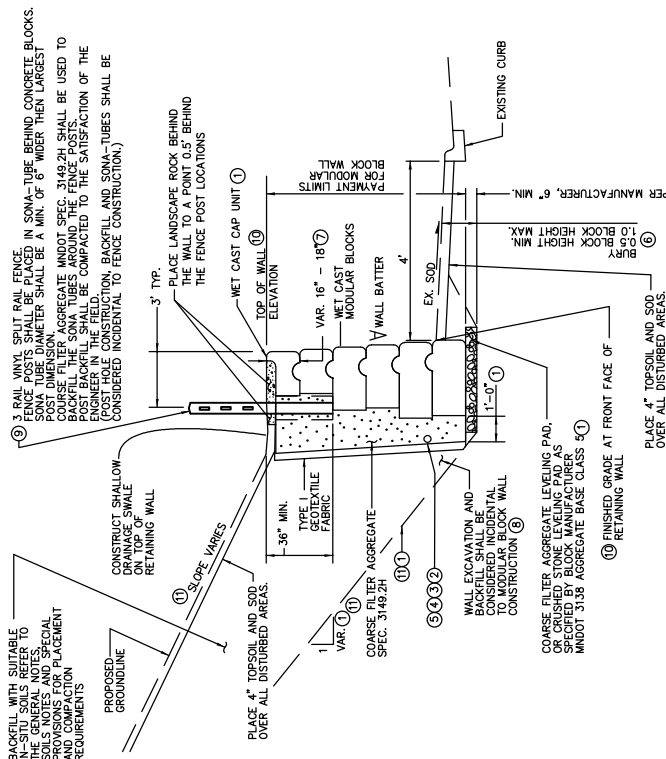
PROVIDE DETAILED DRAWINGS FOR CONSTRUCTION CONTAINING:

- ELEVATION VIEW WITH REINFORCEMENT PLACEMENT REQUIREMENTS, WALL FACING LAYOUT, AND GEOMETRIC INFORMATION.
- PLAN VIEW WITH BOTTOM AND TOP OF WALL ALIGNMENT, AND PLAN LIMITS OF WALL ALIGNMENT.
- CROSS SECTIONS DETAILING BATTER, REINFORCEMENT, VERTICAL SPACING, REINFORCEMENT LENGTHS, SURFACE DRAINAGE, SURFACE DRAINAGE, AND WATER RUNOFF COLLECTION ABOVE WALL.
- REINFORCEMENT LAYOUT. REINFORCEMENT SHALL BE PLACED AT 100% COVERAGE RATIO. REINFORCEMENT ELEVATIONS SHALL BE CONSISTENT ACROSS LENGTH OF WALL STRUCTURE.
- NOTE BLOCK, REINFORCEMENT, AND FILL PLACEMENT METHODS AND REQUIREMENTS.
- DETAIL ALL WALL FILL PENETRATIONS AND WALL FACE PENETRATIONS. DETAIL REINFORCEMENT AND/OR WALL FACING UNIT PLACEMENT AROUND PENETRATIONS.
- DETAILS THAT ARE SPECIFIC TO VENDOR PRODUCTS AND THEIR INTERACTION WITH OTHER PROJECT COMPONENTS.
- CERTIFICATION BY PROFESSIONAL ENGINEER THAT THE CONSTRUCTION LAYOUT MEETS THE REQUIREMENTS OF PLANS.

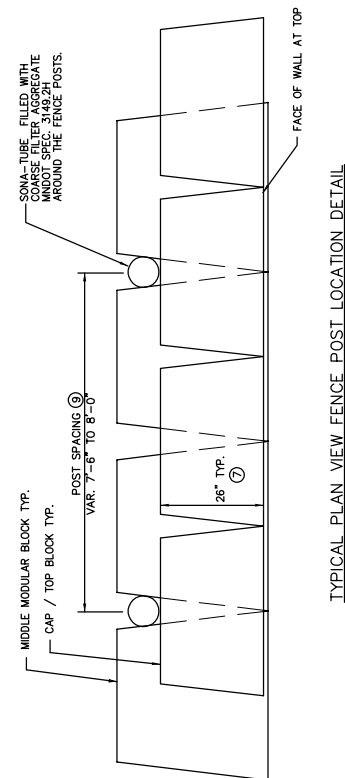
#### WET CAST MODULAR BLOCK UNITS

- WET CAST CONCRETE BLOCK UNITS SHALL BE:
- LARGE BLOCK WET CAST CONCRETE MODULAR BLOCK
  - SEE SPECIAL PROVISIONS FOR FACE TEXTURE AND COLOR REQUIREMENT

DEFINITION OF TERMS
MBW = MODULAR BLOCK
LL = LIVE LOAD
C.I.P. = CAST-IN-PLACE
H = WALL HEIGHT



#### TYPICAL WET CAST MODULAR BLOCK RETAINING WALL DETAIL



#### GENERAL NOTES:

- UTILITIES: EXISTING AND PROPOSED UTILITIES ARE SHOWN IN THE GRADING PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING FACILITIES AND SHALL EXERCISE CARE IN ADJACENT CONSTRUCTION.
- EXCAVATION AND EMBANKMENT: EXCAVATION AND EMBANKMENT WORK SHALL CONFORM TO Mn/DOT 2451.
- CONSTRUCTION: CONSTRUCTION SHALL BE IN ACCORDANCE WITH Mn/DOT 2411, EXCEPT AS NOTED.
- COMPACTION REQUIREMENTS: COMPACT REINFORCED WALL FILL IN ACCORDANCE WITH Mn/DOT SPEC. 2105.3F2 UNLESS RECOMMENDED OTHERWISE BY THE SOILS ENGINEER.
- COMPACT GRANULAR BEDDING IN ACCORDANCE WITH Mn/DOT SPEC. 2105.3F2 UNLESS RECOMMENDED OTHERWISE BY THE SOILS ENGINEER.

- ALL EXCAVATION, BACKFILL, TOPSOIL, COARSE FILTER AGGREGATE AND GEOTEXTILE FABRIC SHALL BE INCIDENTAL TO WALL CONSTRUCTION.
- INSPECT EXCAVATION SLOPES FOR ACTIVE SEEPAGE AND PLACE ADDITIONAL DRAINS WHERE SEEPAGE OCCURS AS DIRECTED BY THE ENGINEER.
- PLACE DRAIN AT BOTTOM OF REINFORCED SOIL IF PIPE CAN BE SLOPED TO OUTLET; DO NOT OUTLET ONTO SIDEWALK, (INC.)
- 4\"/>
- REFER TO PLAN & ELEVATION DRAWINGS FOR OUTLET LOCATIONS.
- UNLESS DEEPER BURY IS REQUIRED BY WALL MANUFACTURER'S PROFESSIONAL APPROVAL IS SPECIFICALLY GIVEN.
- DEPEND ON BLOCK MANUFACTURER
- THE CONTRACTOR SHALL HAVE THE OPTION TO USE SOILS OTHER THAN AS SHOWN ON THE DRAWINGS. BACKFILL MATERIALS SHALL BE APPROVED BY THE ENGINEER. BACKFILL MATERIALS ARE USED AS SHOWN IN THE DRAWINGS SHALL BE 3149.2B2 AND SHALL BE CONSIDERED INCIDENTAL TO THE MODULAR BLOCK RETAINING WALL.
- FENCE IS NECESSARY ON WALLS OVER 30\"/>
- SEE PROFILE FOR WALL ELEVATIONS.
- TEMPORARY SHORING MAY BE REQUIRED TO PROTECT EXISTING TREES FROM STRUCTURE EXCAVATION. SEE CONSTRUCTION PLANS FOR TREE LOCATIONS THAT NEED PROTECTING. TEMPORARY SHORING OR ANY OTHER MEASURES USED TO PROTECT TREES DURING CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO WALL CONSTRUCTION.

#### SPLIT RAIL FENCE

- 4\"/>
- 3 RAIL WHITE PLASTIC VINYL
- RESIST WEATHERING AND
- APPROVED BY THE ENGINEER.

