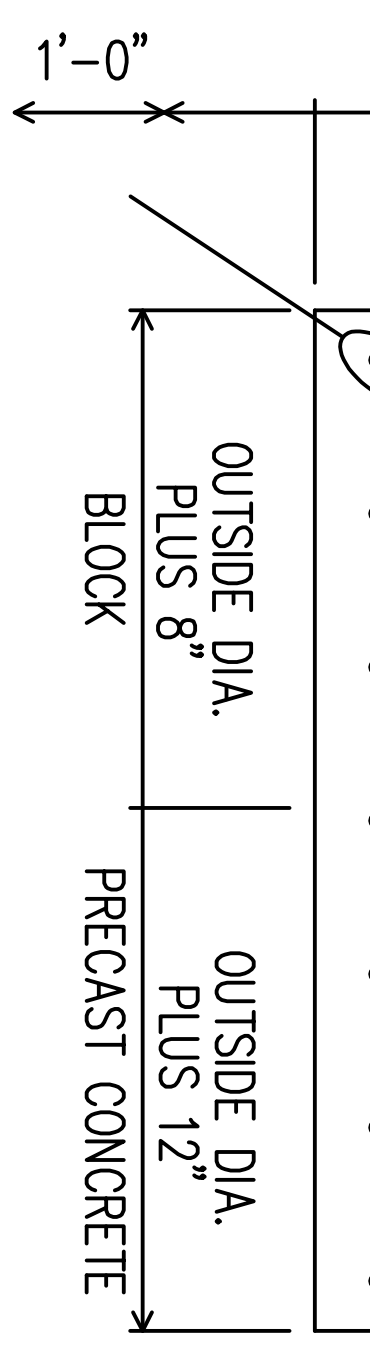
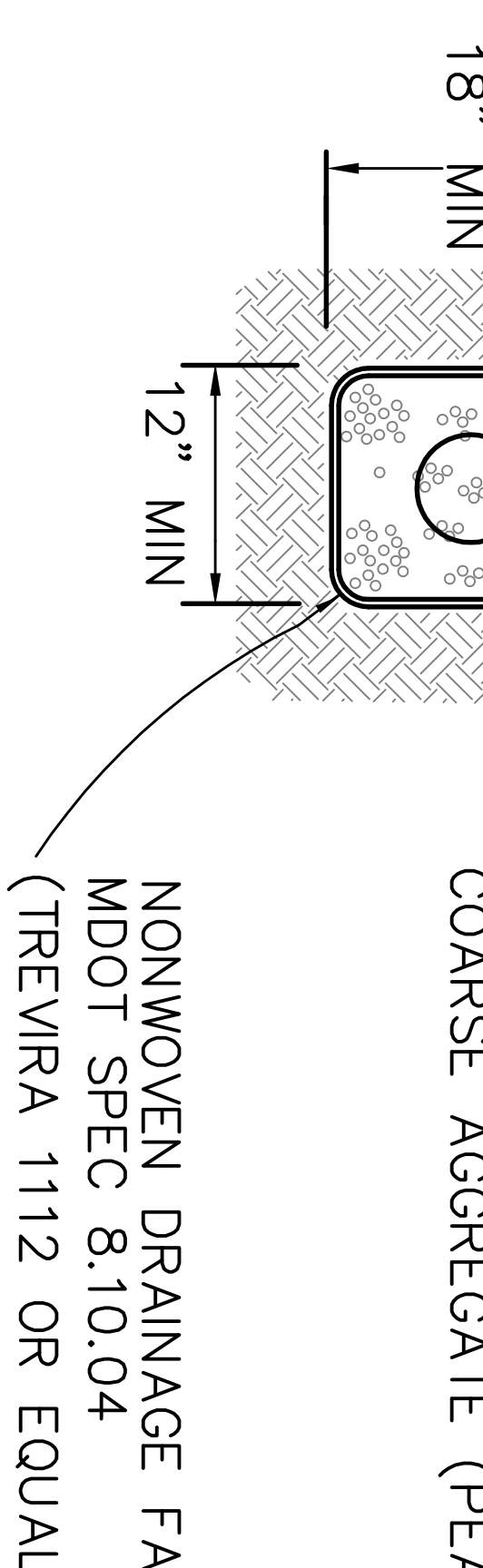


**BLOCK OR PRECAST
CONCRETE CATCH BASIN
DETAIL**
NO SCALE



EDGE DRAIN DETAIL
NO SCALE



GENERAL NOTES

1. CONTRACTOR TO PROTECT EXISTING ABOVE GROUND AND BELOW GROUND FACILITIES INCLUDING: UTILITIES, POLES, TREES, SHRUBS AND OTHER VEGETATION UNLESS APPROVED OR OTHERWISE NOTED FOR REMOVAL ON THE PLANS; AND SHALL REPAIR OR REPLACE DAMAGED FACILITIES AT NO COST TO THE TOWNSHIP. TREES SHALL BE NEATLY TRIMMED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AND MAINTAIN EXISTING SERVICES TO EXISTING HOMES, INCLUDING SANITARY, WATER, GAS, CABLE & OTHER UTILITIES.
2. CONTRACTOR SHALL PROTECT ALL SITE FEATURES SUCH AS PLANTERS, MAIL BOXES, FENCES, WALLS, WALKS, PORCHES, ETC. AND RESTORE TO ORIGINAL CONDITION IF DAMAGED.
3. FOR PROTECTION OF UNDERGROUND UTILITIES, AND IN CONFORMANCE WITH PUBLIC ACT 53, THE CONTRACTOR SHALL DIAL 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO THE BEGINNING EXCAVATION IN EACH AREA WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.
4. NO BURNING OR BLASTING WILL BE ALLOWED.
5. ALL CONSTRUCTION STAGING AREAS SHALL BE APPROVED BY THE PROJECT ENGINEER, HANDY TOWNSHIP, AND LAND OWNER(S) PRIOR TO START OF CONSTRUCTION. ANY AREAS BEYOND CONSTRUCTION RIGHT-OF-WAY SECURED BY THE CONTRACTOR FOR USE AS CONSTRUCTION STAGING SHALL BE AT HIS OWN EXPENSE.
6. THE RESTORATION OF ALL STAGING AREAS SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE OF THE WORK OF THIS PROJECT.
7. CONTRACTOR TO MAINTAIN SITE GRADING AT ALL TIMES TO PREVENT PONDING OF WATER.
8. EROSION CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE REQUIREMENTS OF HANDY TOWNSHIP, LIVINGSTON COUNTY, AND/OR M.D.O.T.
9. CONTRACTOR SHALL PROTECT EXISTING AND NEW STORM INLETS AND SEWERS FROM SILT AND DIRT DURING CONSTRUCTION.
10. OVERHEAD UTILITY POLES THAT INTERFERE WITH PROPOSED ROAD, CURB, AND SEWER LOCATIONS WILL BE RELOCATED BY THE UTILITY OWNER AT THE DEVELOPER'S EXPENSE.
11. AT NO TIME MAY THE CONTRACTOR TRESPASS ON PRIVATE PROPERTY OUTSIDE THE DESIGNATED CONSTRUCTION LIMITS.

12. ALL WORK IN THE RAILROAD RIGHT-OF-WAY TO CONFORM TO A.R.E.A. SPECIFICATIONS & M.D.O.T. SUPPLEMENTAL SPECIFICATIONS FOR RAILROAD WORK, LATEST EDITION.

13. SAFETY IS ESSENTIAL FOR ALL CONSTRUCTION OPERATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT HIS OWN WORKERS, AND THOSE OF ANY SUBCONTRACTORS, SUPPLIERS, TOWNSHIP EMPLOYEES, THE PROJECT ENGINEER, AND ANYONE ELSE WHO MAY BE ON THE CONSTRUCTION SITE. A DESIGNATED COMPETENT PERSON IN ACCORDANCE WITH O.S.H.A. REQUIREMENTS, KNOWLEDGEABLE IN SOILS, TRENCH SAFETY, SHEETING AND SHORING SHALL BE ON THE PREMISES AT ALL TIMES DURING CONSTRUCTION OPERATIONS. CONFINED SPACE ENTRY AND ALL OTHER SAFETY REQUIREMENTS SHALL BE FOLLOWED AS REQUIRED BY LAW AND/OR O.S.H.A. GUIDELINES.

14. EXCEPT WHERE OTHERWISE NOTED ON THE APPROVED PLANS OR IN THE SPECIFICATIONS ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.

15. THE PLACING OF PAVEMENT MARKINGS AND ALL TRAFFIC CONTROL SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
16. ALL UNDERGROUND UTILITIES, CATCH BASINS, AND MANHOLES WITHIN THE INFLUENCE (1H TO 1.5V) OF THE ROADWAY OR OTHER PAVEMENT TO BE BACKFILLED WITH M.D.O.T. CLASS II GRANULAR MATERIAL COMPACTED TO 95% MAXIMUM DENSITY (MODIFIED PROCTOR).

UNDERGROUND CONSTRUCTION

1. ALL MANHOLES SHOWN ON THE PLANS SHALL BE 4'-0" DIAMETER UNLESS OTHERWISE NOTED.
2. THE PREFERRED MATERIAL FOR DRAINAGE STRUCTURES IS PRECAST CONCRETE; BLOCK STRUCTURES WILL BE ACCEPTED.
3. ALL STORM SEWER SHALL BE RCP CL#IV WITH PREMIUM JOINTS, UNLESS OTHERWISE NOTED.
4. INSTALL MINIMUM 10'-0" OF 6" - CMP PERFORATED UNDER DRAIN BOTH WAYS FROM EACH CATCH BASIN STRUCTURE.

MATERIALS

- VITRIFIED CLAY PIPE
- REINFORCED CONCRETE
- DRAWINGS OR SPECIFICATIONS
- REINFORCED CONCRETE
- DESIGNED ON THE DRAWINGS.
- DUCTILE IRON PIPE
- STANDARD A21.4, DRAWINGS.
- CORRUGATED METAL
- WITH PAVED INVERT
- POLYVINYL CHLORIDE
- MEET ASTM D-1778
- POLYVINYL CHLORIDE
- ASTM D-1784.
- PVC CORRUGATED
- PVC SEWER PIPE -