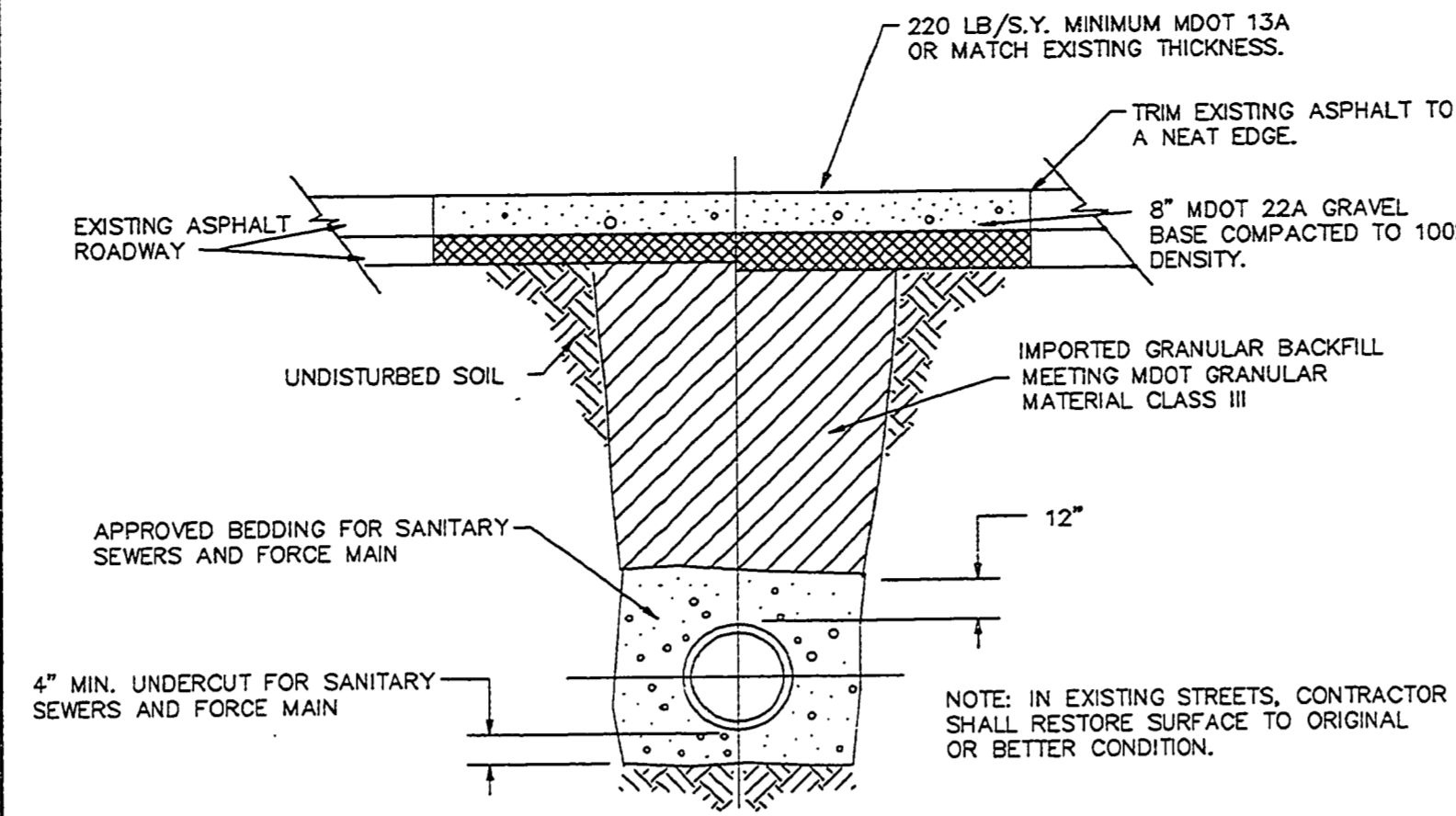


GENERAL NOTES

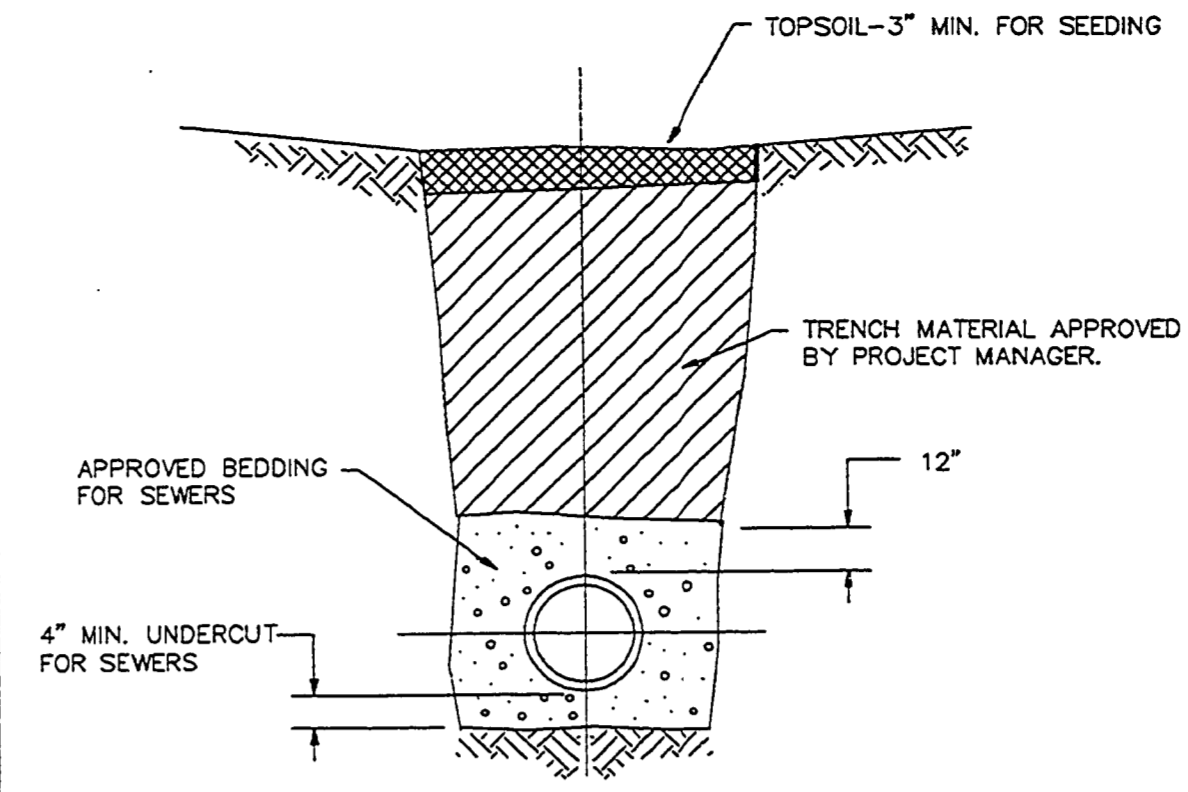
- THE CONTRACTOR SHALL FURNISH AND MAINTAIN TRAFFIC CONTROL DEVICES FOR PROTECTING AND REGULATING TRAFFIC WITHIN THE PROJECT WORK AREA FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
- TOPSOIL STRIPPED FROM WITHIN THE GRADING LIMITS MAY BE STOCKPILED FOR REUSE AT AREAS APPROVED BY THE PROJECT MANAGER. TOPSOIL REQUIRED FOR RESTORATION AND WHICH IS NOT AVAILABLE WITHIN THE GRADING LIMITS SHALL BE IMPORTED.
- NON-REGULATORY SIGNS WITHIN THE GRADING LIMITS SHALL BE REMOVED AND REPLACED AFTER TOPSOIL HAS BEEN PLACED AND GRADED.
- CONTRACTOR SHALL NOTE THAT NOT ALL TREES WERE LOCATED AS PART OF THE SITE SURVEY. IN GENERAL, TREES LARGER THAN 12" WERE LOCATED AND OF THE TREES LOCATED, DOUBLE AND/OR TRIPLE TRUNKED TREES ARE SHOWN AS A SINGLE TRUNKED TREE. THE CONTRACTOR SHALL USE HIS JUDGEMENT AS TO THE NUMBER OF TREES PRESENT ON THE SITE.
- CONTRACTOR SHALL REMOVE ONLY THOSE TREES NOTED ON THE PLANS FOR REMOVAL. ALL OTHER TREES SHALL BE PROTECTED.
- AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED PRIOR TO CONSTRUCTION. TOPSOILING, SEEDING AND MULCHING SHALL BE IN ACCORDANCE WITH SECTION 02936 OF THE SPECIFICATIONS. ALL AREAS SHALL BE SEEDDED WITH MDT CLASS "A" SEED MIXTURE.
- UNLESS SPECIFICALLY NOTED FOR REMOVAL ON THE CONSTRUCTION PLANS, SIDEWALKS, DRIVES, CULVERTS, GUARDRAILS, AND ABOVE GROUND UTILITIES SHALL BE PROTECTED. SUCH UTILITIES DAMAGED OR DESTROYED DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED INCIDENTAL TO CONSTRUCTION.
- EXISTING WATER MAINS, GAS MAINS AND UNDERGROUND TELEPHONE, ELECTRIC AND CABLE TELEVISION CONDUITS AND/OR LINES MAY BE SHOWN ONLY IN THE PLAN VIEW OF THE CONSTRUCTION DRAWINGS. THE EXACT DEPTH AND LOCATIONS OF THESE UTILITIES IS NOT KNOWN AND THEREFORE, NO ATTEMPT HAS BEEN MADE TO SHOW SUCH UTILITIES IN THE PROFILE OF THE CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THESE UTILITIES WHICH ARE NOT WITHIN THE SPACE OCCUPIED BY COMPLETED PIPES OR STRUCTURES THAT ARE PART OF THIS CONTRACT. DURING CONSTRUCTION, IF DAMAGED OR DESTROYED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS TO REPAIR OR REPLACE THEM AT NO ADDITIONAL EXPENSE TO THE OWNER.
- CONTRACTOR SHALL REMOVE FROM THE PROJECT SITE ALL EXCESS EXCAVATED MATERIAL WHICH CAN NOT BE INCORPORATED INTO THE WORK.
- THE CONTRACTOR SHALL USE A MINIMUM OF TWO BENCH MARKS FOR VERIFICATION OF GRADE FOR ALL CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING ADDITIONAL BENCH MARKS.
- BIDS FOR CONSTRUCTION OF ALL WORK SHOWN ON THE PLANS ARE SOLICITED ON A LUMP SUM BASIS. NO SEPARATE PAYMENT OR ADJUSTMENTS TO THE LUMP SUM BID WILL BE MADE UNLESS SPECIFICALLY INDICATED ON THE PLANS AND IN THE PROPOSAL, OR WHEN ADDITIONAL WORK IS AUTHORIZED IN WRITING BY THE PROJECT MANAGER.
- TREES 4" DIAMETER AND LARGER REMOVED AS PART OF THE WORK SHALL BE CUT INTO 8' TO 10' LENGTHS FREE FROM ALL LIMBS AND BRANCHES AND SHALL BE STOCKPILED AT THE PARK YARD IN AN AREA DESIGNATED BY THE PROJECT MANAGER. ALL LIMBS, BRUSH, AND BRANCHES SHALL BE CHIPPED AND ALL CHIPS SHALL BE STOCKPILED AT THE PARK YARD IN AN AREA DESIGNATED BY THE PROJECT MANAGER. ALL STUMPS SHALL BE REMOVED FROM THE PARK SITE.
- EXISTING GUARD POSTS WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION OPERATIONS SHALL BE REMOVED AND REPLACED UPON COMPLETION OF GRADING OPERATIONS. REUSE OF EXISTING POSTS IS ACCEPTABLE PROVIDED THE POST IS IN GOOD CONDITION AND IS APPROVED FOR REUSE BY THE PROJECT MANAGER. GUARD POSTS SHALL BE INSTALLED AT 5' CENTERS.
- CAMPFIRE MARKER POSTS WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION OPERATIONS SHALL BE REMOVED AND REPLACED UPON COMPLETION OF GRADING OPERATIONS. REUSE OF EXISTING POSTS IS ACCEPTABLE PROVIDED THE POST IS IN GOOD CONDITION.
- EMBANKMENT MATERIAL WHICH IS REQUIRED TO MEET THE PROPOSED LINES AND GRADES AND WHICH IS NOT AVAILABLE ON THE PARK SITE SHALL BE IMPORTED TO THE PARK SITE.
- ESTIMATED QUANTITIES INDICATED ON THE PLANS ARE INCLUDED FOR GENERAL REFERENCE ONLY. THE CONTRACTOR SHALL USE HIS INDEPENDENT JUDGEMENT AS TO THE ACCURACY OF THE ESTIMATED QUANTITIES STATED ON THE PLANS. THE CONTRACTOR SHALL NOTE THAT NO ADJUSTMENTS TO THE LUMP SUM PRICE WILL BE MADE FOR AS CONSTRUCTED QUANTITIES WHICH ARE IN EXCESS OF THE ESTIMATED QUANTITIES INDICATED ON THE PLANS.

ALLOWANCE ITEMS

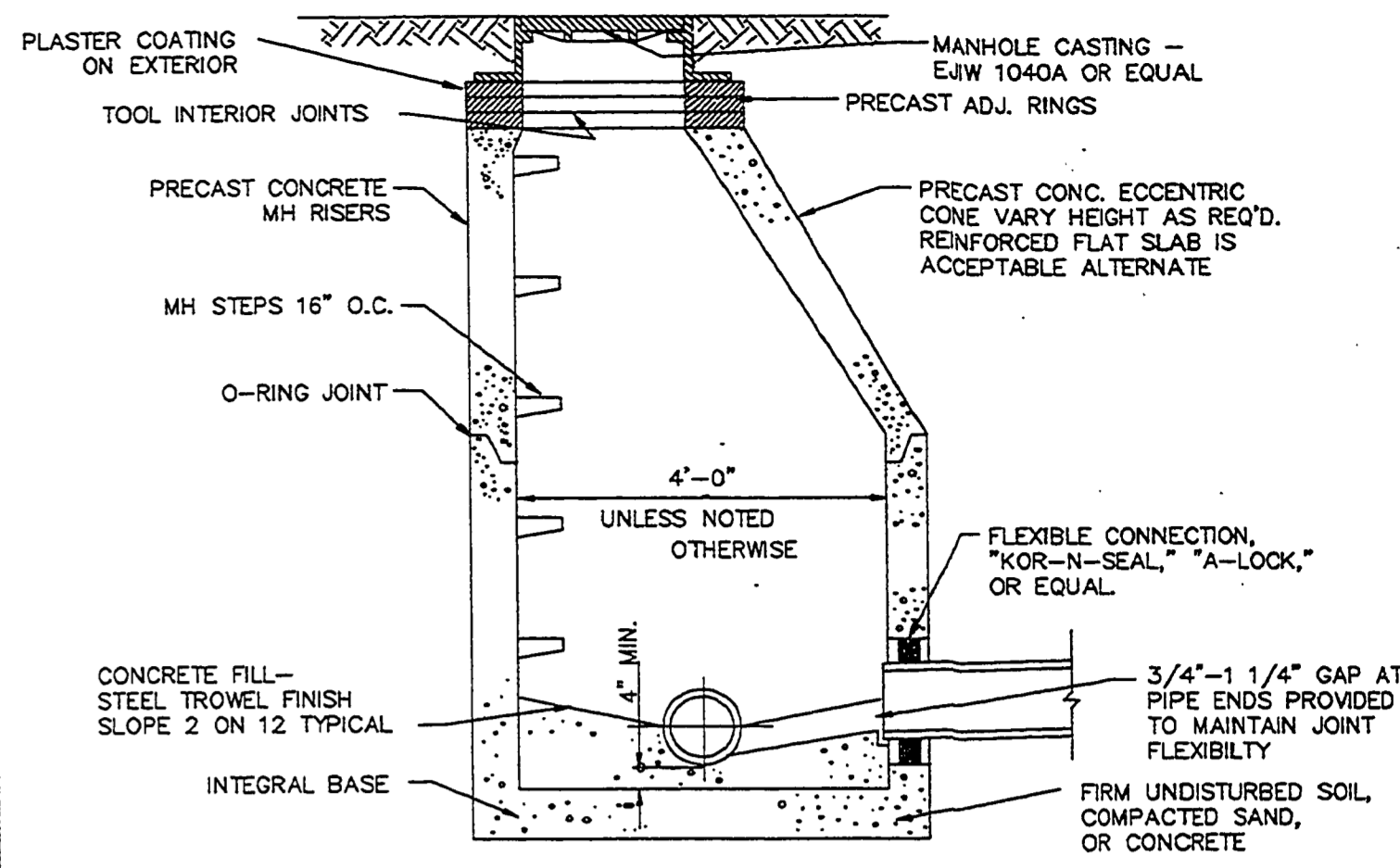
- THE LUMP SUM PRICE SHALL INCLUDE AN ALLOWANCE FOR 500 C.Y. OF TRENCH UNDERCUTTING. TRENCH UNDERCUTTING SHALL INCLUDE EXCAVATION OF EXISTING UNSTABLE MATERIAL ENCOUNTERED IN THE TRENCH AND PLACEMENT OF MDT 9A STONE. ALL TRENCH UNDERCUTTING SHALL BE APPROVED IN WRITING BY THE PROJECT MANAGER PRIOR TO PLACEMENT. THE LUMP SUM PRICE WILL BE ADJUSTED TO REFLECT ACTUAL CONSTRUCTED QUANTITIES OF TRENCH UNDERCUTTING PERFORMED BY THE CONTRACTOR.
- THE LUMP SUM PRICE SHALL INCLUDE AN ALLOWANCE OF \$10,000.00 FOR THE FURNISHING AND INSTALLING OF THE ELECTRIC SERVICE AT THE DAY USE AND CAMPGROUND PUMP STATIONS. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE UTILITY OWNER. THE LUMP SUM PRICE WILL BE ADJUSTED TO REFLECT THE ACTUAL COST OF THE ELECTRIC SERVICE INSTALLATION BASED ON INVOICED COSTS FROM THE UTILITY. CONTRACTOR MARK-UP OF THE INVOICES WILL NOT BE ALLOWED.



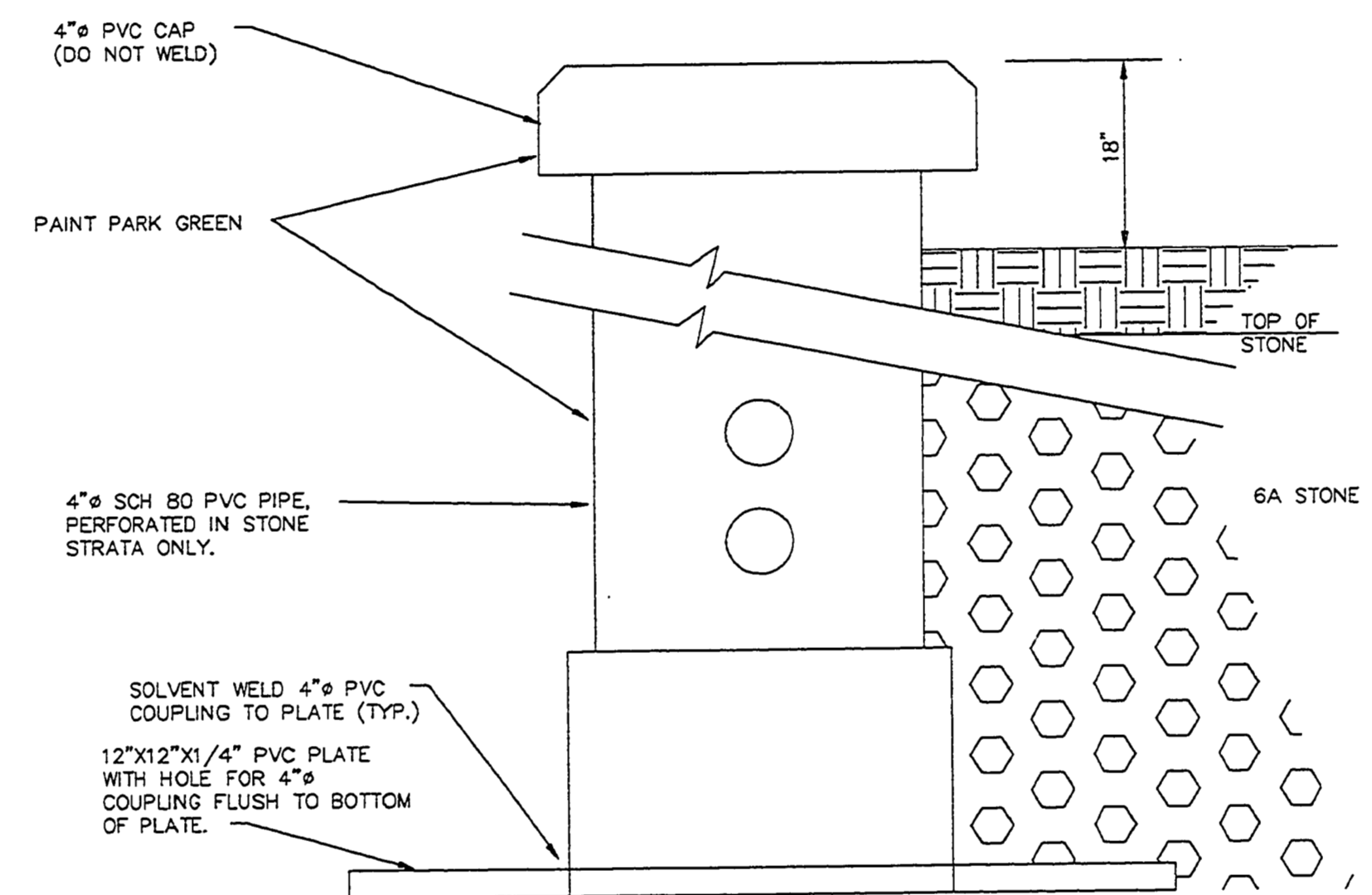
TRENCH BACKFILL UNDER ROADWAY
NO SCALE



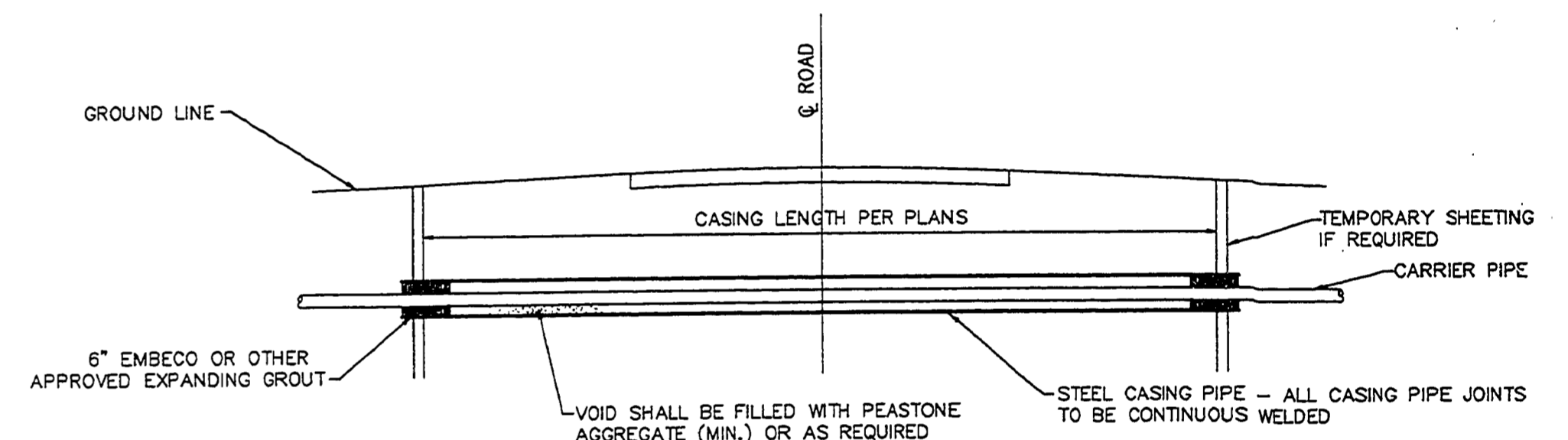
NORMAL TRENCH BACKFILL
NO SCALE



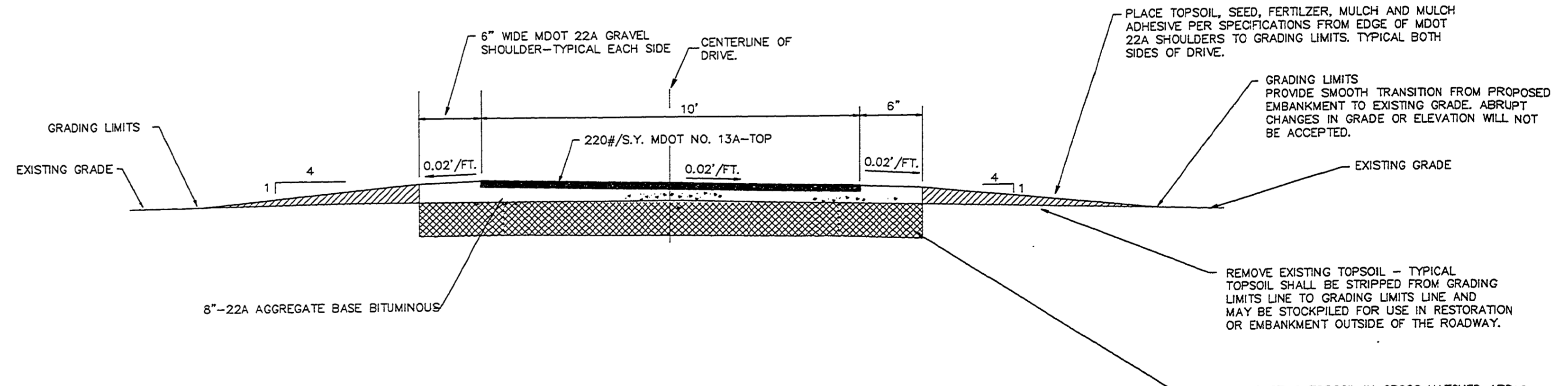
STANDARD SANITARY MANHOLE
NO SCALE



VISUAL OBSERVATION PORT DETAIL
NO SCALE



TYPICAL JACKING SECTION
NO SCALE



TILTED CROSS SECTION
10' WIDE DRIVE
NO SCALE

DRN BY: LJS	IDENTIFICATION NO. PROJECT - MUSKEGON	ISSUED FOR: PRELIMINARY	DATE: 7-21-94
CHKD BY: GJF	STATE ACCOUNT	CONSTRUCTION	9-23-94
APP'D BY: GDA	607-75-2450-400	FINAL RECORD	



QUALITY OF LIFE RECREATION BOND
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
PARKS DIVISION - STATE ACCT. NO. 607-75-2450-400

MUSKEGON STATE PARK
STANDARD DETAILS

SCALE: NO SCALE
PROJ. NO.: 91159
SHEET 4 OF 21

FILE NAME: 1558DET
DATE: 07/21/94
DRAWN BY: LJS
UPDATED BY: LJS