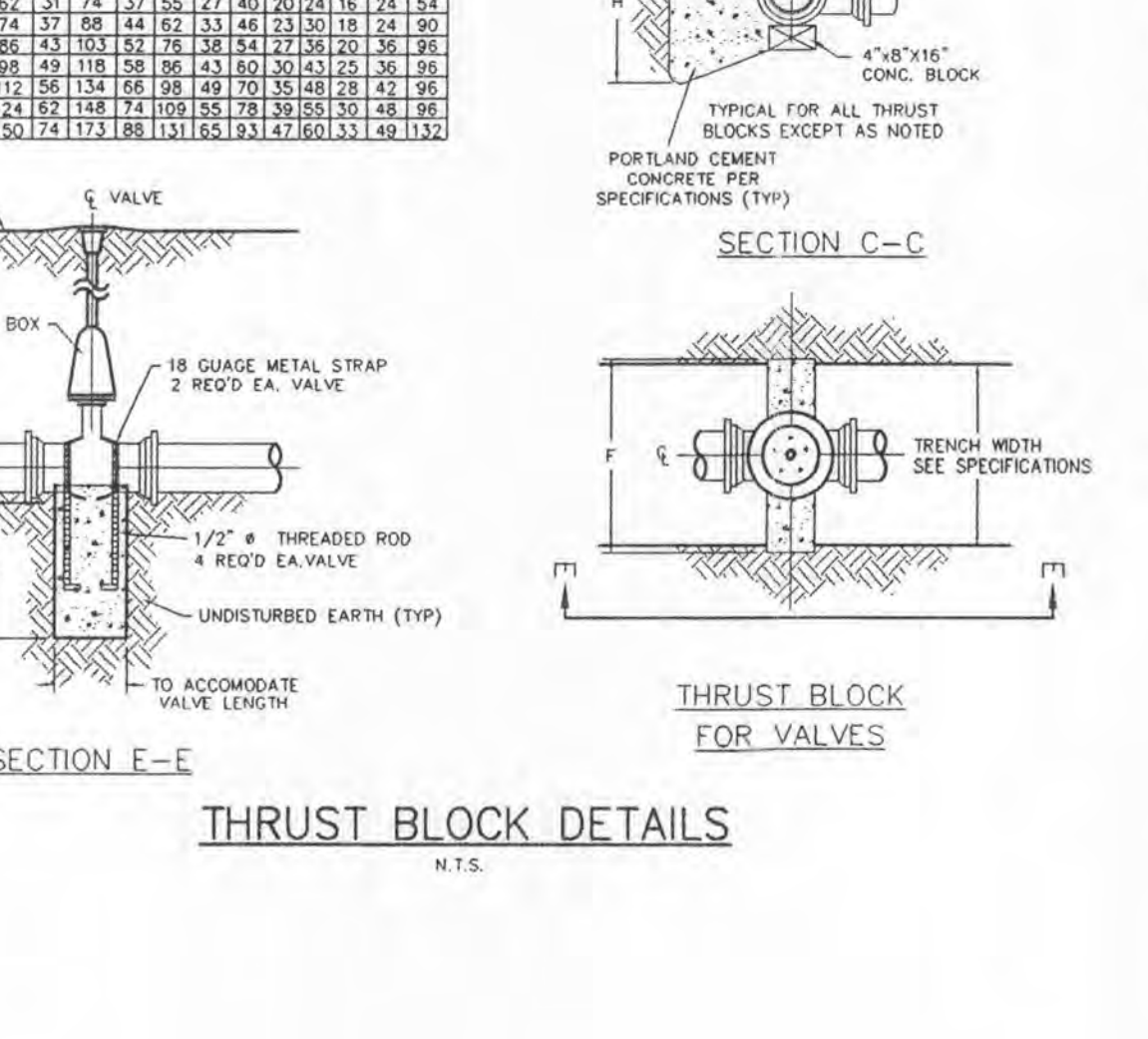
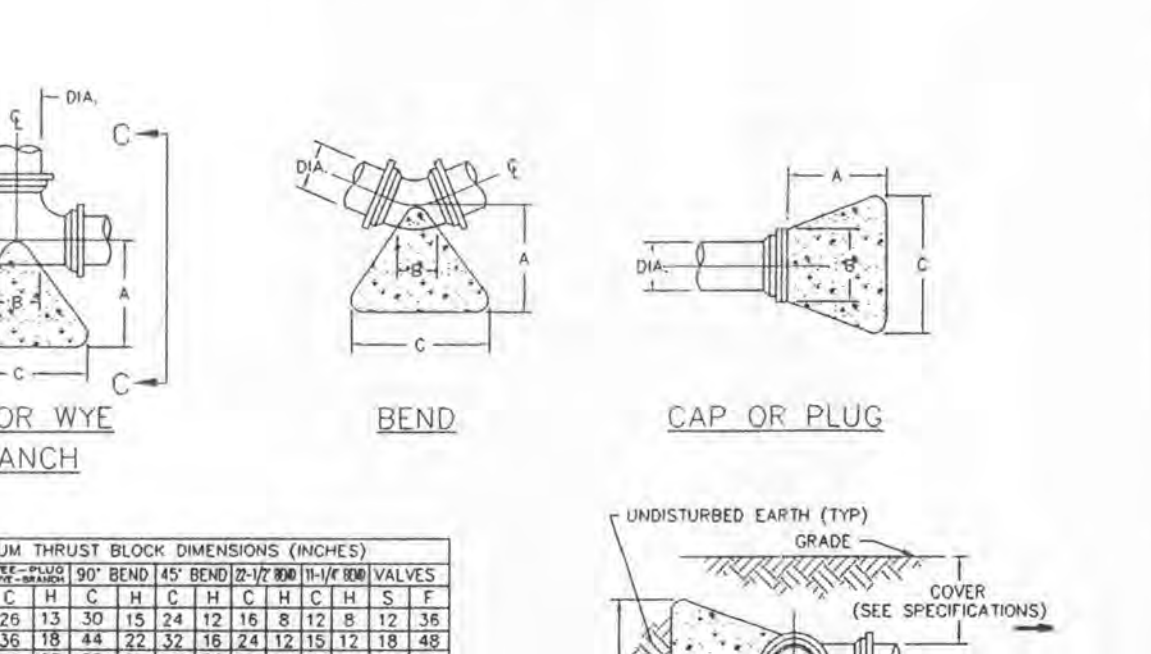
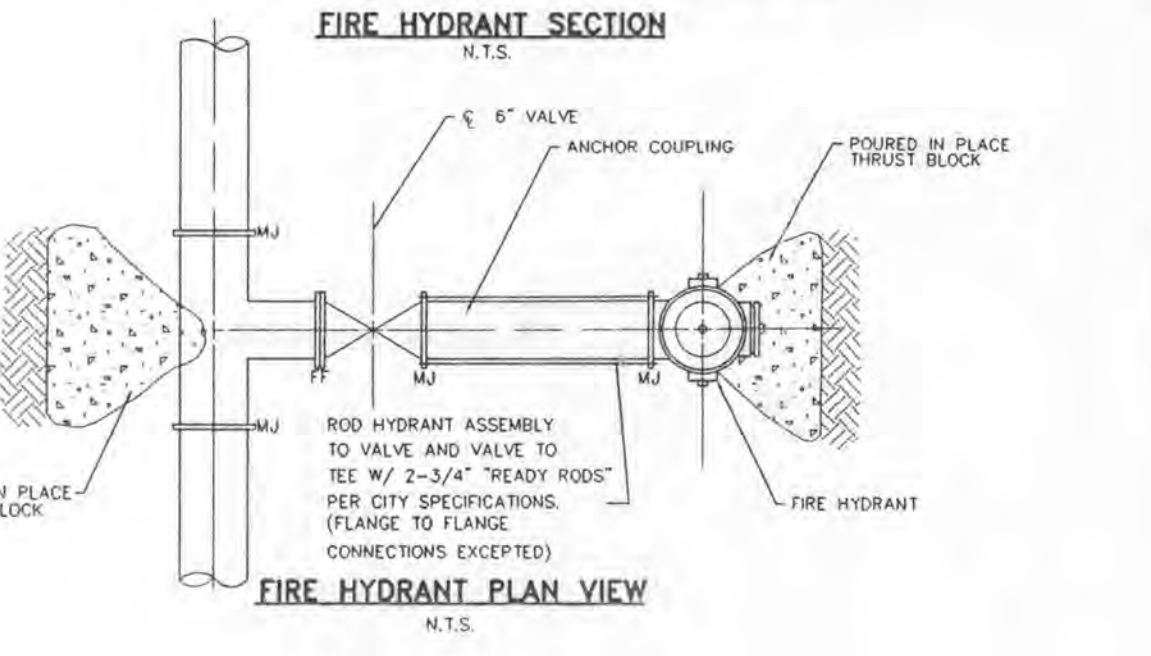
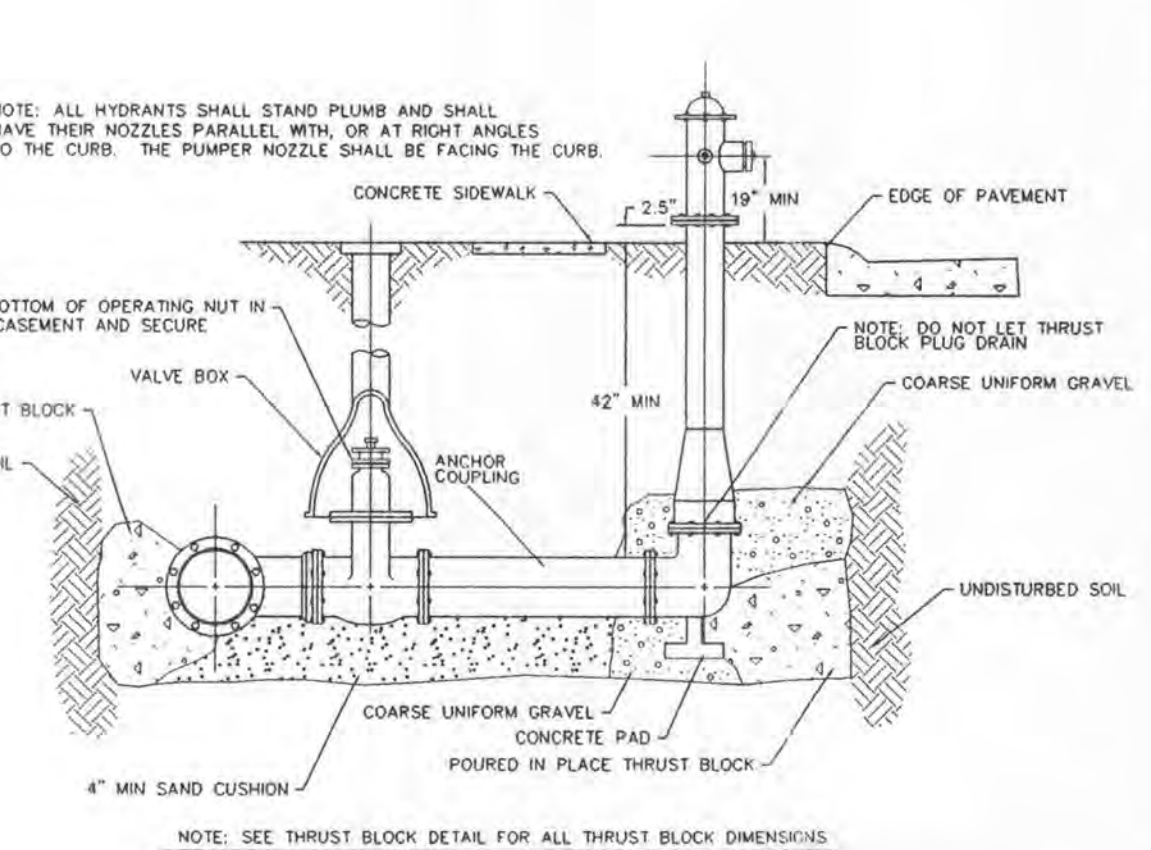


- UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THEREFORE, THE RELATIONSHIP BETWEEN PROPOSED WORK AND EXISTING FACILITIES, STRUCTURES AND UTILITIES MUST BE CONSIDERED APPROXIMATE AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THEIR EXACT LOCATION AND THE EXISTENCE OF ANY NOT SHOWN. (ALL UTILITIES SHALL BE LOCATED BOTH HORIZONTALLY AND VERTICALLY TO INSURE CLEARANCE/COVER OF ANY PROPOSED GRADING, SEWERS, FOOTINGS, ETC. PRIOR TO CONSTRUCTION. UTILITY COMPANY REPRESENTATIVES SHALL BE ON SITE DURING SUCH TIMES THAT EXCAVATION IS TAKING PLACE IN THE VICINITY OF THEIR FACILITIES.)
- ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM.
- BOUNDARY SURVEY MADE BY DITCH ENGINEERING COMPANY. TOPOGRAPHIC SURVEY MADE BY DITCH ENGINEERING COMPANY.
- SUBSURFACE INVESTIGATIONS ON THIS PROJECT WERE NOT AVAILABLE AT THE TIME THESE PLANS WERE PREPARED. IT SHALL BE THE RESPONSIBILITY OF THE OWNER, DEVELOPER OR CONTRACTOR TO HAVE THE SITE TESTED PRIOR TO ANY GRADING OPERATIONS AND FOLLOW THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER.
5. SITE BENCHMARK IS TOP OF OPERATING NUT ON FIRE HYDRANT, SOUTH SIDE OF BRYAN VALLEY DR, 230' +/- WEST OF CENTERLINE BRYAN RD.
6. ALL EXCAVATIONS, WHETHER THEY BE UTILITY TRENCHES, BASEMENT EXCAVATIONS, OR FOOTING EXCAVATIONS, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) "CONSTRUCTION STANDARDS FOR EXCAVATIONS."
7. PRIOR TO BEGINNING ANY WORK ON THE SITE, THE CONTRACTOR SHALL CONTACT THE OFFICE OF THE DEVELOPER FOR SPECIFIC INSTRUCTIONS RELEVANT TO THE SEQUENCING OF WORK.
8. REFERENCE LINES AND GRADES SHALL BE ESTABLISHED BY THE CONTRACTOR PRIOR TO STARTING THE WORK AND SHALL BE MAINTAINED DURING THE PROGRESS OF THE WORK.
9. THE CONTRACTOR SHALL RESTORE TO ORIGINAL CONDITION, ALL "OFF SITE" PROPERTY IN EASEMENTS DISTURBED BY HIS OPERATIONS.
10. ALL WORK MUST BE PERFORMED WITHIN EXISTING OR ACQUIRED EASEMENTS. AGENCY APPROVAL OF THESE PLANS DOES NOT AUTHORIZE OR CONDONE WORK OUTSIDE OF THE EASEMENTS.
11. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF O'FALLON, MO. IN THE ABSENCE OF ANY APPLICABLE LOCAL STANDARDS, THE REQUIREMENTS SET FORTH HEREON SHALL GOVERN.
12. ALL WEEDS, BRUSH, SHRUBS, TREES (EXCEPT THOSE TREES DESIGNATED TO REMAIN IN PLACE) STUMPS, ROOTS, TRASH, DEBRIS, RUBBLE, BROKEN ASPHALT FOUNDATIONS, TANKS, VALVES, ORGANIC MATERIAL & REFUSE, OR ANY OTHER MATERIAL WHICH WOULD BE, IN THE OPINION OF THE SOILS ENGINEER, DELETERIOUS AS FILL MATERIAL OR INCAPABLE OF SUPPORTING THE BUILDING, VEHICULAR AND/OR OVERBURDEN LOADS TO SUCH MATERIAL SHALL BE REMOVED EITHER ON THE SURFACE OR BURIED WITHIN THE LIMITS OF GRADING AND/OR BUILDING, STREET OR PARKING AREAS) SHALL BE CLEARED, GRUBBED OR EXCAVATED AS THE CASE MAY INDICATE, PRIOR TO GRADING, AND SHALL BE REMOVED FROM THE SITE OR DISPOSED OF ON SITE IN A MANNER AS APPROVED BY THE CITY OF O'FALLON, THE DEVELOPER AND AS DIRECTED BY THE SOILS ENGINEER.
13. WHEN BURIED TANKS ARE ENCOUNTERED, THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, & FEDERAL CODES, AS APPLICABLE, REGARDING REMOVAL & RESTORATION, AS DIRECTED BY THE OWNER.
14. CONTRACTOR SHALL VERIFY THE LOCATION OF THE EXISTING SANITARY SEWER PRIOR TO ANY GRADING OPERATIONS, AND PROTECT THE SEWER DURING THE WORK.
15. SILTATION AND EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO ANY GRADING OPERATIONS AND SHALL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS UNTIL SUFFICIENT VEGETATION HAS BEEN ESTABLISHED ON THE SITE TO PREVENT EROSION.
16. THE INSTALLATION AND MAINTENANCE OF ALL SILTATION AND EROSION CONTROL DEVICES SHALL BE THE RESPONSIBILITY OF THE GRADING CONTRACTOR.
17. ADDITIONAL SILTATION CONTROL MAY BE REQUIRED AS DIRECTED BY THE CITY OF O'FALLON, MO DEPARTMENT OF PUBLIC WORKS OR MOHD.
18. ALL GRADED AREAS SHALL BE PROTECTED FROM EROSION BY SEDIMENTATION BASINS, EROSION CONTROL DEVICES AND/OR SEEDING AND MULCHING AS REQUIRED BY THE DEPARTMENT OF PUBLIC WORKS.
19. SLOPES TO RECEIVE FILL WHICH IS STEEPER THAN 1 VERTICAL TO 5 HORIZONTAL SHOULD BE BENCHED PRIOR TO PLACEMENT OF FILL. THE BENCHES SHOULD BE SPACED SUCH THAT THE MAXIMUM HEIGHT OF CUT AT THE UP-SLOPE RIDGE OF THE BENCH IS 5 FEET.
20. PROPOSED CONTOURS SHOWN ARE FINISH GRADES AND READ TO TOP OF PAVEMENT AND/OR FINISH DIRT GRADE.
21. PROPOSED GRADING WORK SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SOILS REPORT, CITY OF O'FALLON REGULATIONS, AND SPECIFICATIONS HEREIN.
22. IT SHALL BE THE RESPONSIBILITY OF THE GRADING CONTRACTOR TO NOTIFY THE SOILS ENGINEER OF WORK IN PROGRESS AND TO COMPLY WITH THE SPECIFICATIONS SET BY THE SOILS ENGINEER WITH REGARDS TO SURFACE PREPARATION, PLACEMENT OF FILL AND COMPACTION.
23. ALL TOPSOIL IN BORROW AND FILL AREAS SHALL BE EXCAVATED AND UTILIZED ON-SITE AS LANDSCAPING SOIL IN LOCATIONS OUTSIDE THE CONSTRUCTION AREA. THE DRAWINGS INDICATE PLANTING, LANDSCAPING & BERM AREAS, THE TOPSOIL SHALL BE STOCKPILED ON-SITE FOR FUTURE REDISTRIBUTION IN THESE PLANTING AREAS. IN NO INSTANCE SHALL TOPSOIL BE PLACED IN BUILDING PADS AND/OR AREAS TO BE PAVED.
24. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT GRADED AREAS FROM, AND AS NECESSARY RESTORE TO GRADE, ANY RUTS, WASHES OR OTHER CHANGES FROM THE DESIGN ELEVATIONS SHOWN HEREON, UNTIL THE GRADING WORK IS ACCEPTED BY THE OWNER.
25. SOFT SOILS IN FILL AREAS SHALL BE EXCAVATED UNTIL FIRM SOIL IS ENCOUNTERED OR TO A DEPTH OF THREE (3) FEET. IN BUILDING AND PARKING/DRIVE AREAS THE SOFT SOILS SHOULD BE REMOVED TO A DEPTH OF FIVE (5) FEET BELOW THE FOOTING OR SUBBASE, UNLESS THE EXISTING MATERIALS AT SUCH FIVE (5) FOOT DEPTH ARE, IN THE OPINION OF THE SOILS ENGINEER, OF SUCH POOR QUALITY THAT ADDITIONAL OVER-EXCAVATION IS REQUIRED. SOFT SOILS SHALL BE REMOVED FOR A DISTANCE OF AT LEAST FIVE (5) FEET BEYOND THE OUTSIDE EDGE OF THE FOOTINGS IN BUILDING AREAS, OR THREE (3) FEET BEYOND THE EDGE OF PAVEMENT IN PARKING/DRIVE AREAS. OVER-EXCAVATED AREAS SHALL BE BACKFILLED AND COMPACTED PER THE REQUIREMENTS HEREON.
26. SOILS WITH LIQUID LIMITS GREATER THAN FIFTY (50) SHALL NOT BE USED AS FILL WITHIN FIVE (5) FEET (VERTICALLY) OF THE ELEVATION OF FOUNDATIONS OR PARKING/DRIVE AREAS. IN ADDITION, SOILS WITH LIQUID LIMITS GREATER THAN FIFTY (50) ENCOUNTERED IN BUILDING AND PARKING/DRIVE AREAS SHALL BE OVEREXCAVATED AS PER THE REQUIREMENTS NOTED HEREON FOR SOFT SOILS. SHOULD IT BE NECESSARY TO USE AS FILL THOSE SOILS WITH LIQUID LIMITS GREATER THAN 50, HYDRATED LIME SHALL BE DISCED INTO THE SOILS AT THE RATE OF FIVE PERCENT (5%) BY WEIGHT, PRIOR TO COMPACTION.
27. AREAS OF "NO CUT-NO FILL" UPON WHICH FOUNDATIONS AND/OR PARKING & DRIVES ARE TO BE PLACED, AND ALL SUBGRADE TO BE PLACED, SHALL BE SURFACE TREATED BY DISING TO A MINIMUM DEPTH OF EIGHT (8) INCHES, AND COMPACTED AS PER THE REQUIREMENTS HEREIN.
28. ALL FILLS, REFILED OVEREXCAVATIONS, SCARIFIED SURFACES AND TRENCH BACKFILLS SHALL BE COMPACTED TO A MINIMUM OF 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED AASHTO COMPACTION TEST, OR ASTM D 1557-78. FILL MATERIAL SHALL BE EVENLY SPREAD IN LIFTS OF THICKNESSES SUCH THAT FOLLOWING THE REQUIRED COMPACTIVE EFFORT, THE COMPACTED LAYER WILL NOT EXCEED SIX (6) INCHES IN DEPTH. THE MOISTURE CONTENT OF THE FILL MATERIAL SHALL BE CONTROLLED WITH THE LIMITS ESTABLISHED BY THE MODIFIED AASHTO COMPACTION TEST OR ASTM D 1557-78. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RETAIN A QUALIFIED SOILS CONSULTANT TO OBSERVE ALL PHASES OF THE GRADING OPERATIONS AND TO TEST COMPACTION OF THE FILL DURING PLACEMENT. A REPORT SUMMARIZING THE RESULTS OF ALL COMPACTION TESTS, INCLUDING ANY CORRECTIVE WORK, SHALL BE SUBMITTED TO THE OWNER AT THE CONCLUSION OF THE WORK.
29. TOLERANCE OF ALL LINES AND GRADES IN SUBGRADE CROSS SECTIONS TO BE 0.08'
30. ALL FILLS AND BACKFILLS SHALL BE MADE OF SELECTED EARTHEN MATERIALS, FREE FROM BROKEN WASTERS, ROCK OVER SIX (6) INCHES IN DIAMETER, FROZEN EARTH, RUBBISH, ORGANIC MATERIAL AND DEBRIS.
31. ALL FOOTING EXCAVATIONS SHOULD TERMINATE IN FIRM BEARING SOILS, WHICH IN THE OPINION OF THE SOILS ENGINEER, ARE CAPABLE OF SUPPORTING THE LOADS TO BE IMPOSED. THE BASE OF ALL EXCAVATIONS SHOULD BE PROTECTED FROM EXTREME TEMPERATURES, PRECIPITATION AND CONSTRUCTION DISTURBANCES.
32. REFERENCE SPOT GRADES AS MAY BE SHOWN UPON THE DRAWINGS, ESTABLISHING TOP AND/OR BOTTOM ELEVATIONS, UNLESS SPECIFICALLY NOTED OTHERWISE, INDICATE THE FINISH GRADES AT THE TOP AND BOTTOM OF THE WALLS, AND DO NOT ACCOUNT FOR ANY FOOTING, FOUNDATION OR EMBEDMENT DEPTH(S) THAT MAY BE NECESSARY DUE TO THE PARTICULAR WALL SYSTEM SELECTED FOR THE PROJECT. THE FOUNDATION SOILS AS ENCOUNTERED IN THE FIELD, OR OTHER SITE SPECIFIC CONDITIONS.
33. A) SLOPES ON THIS PROJECT SHALL NOT BE GREATER THAN ONE UNIT VERTICAL TO THREE UNITS HORIZONTAL. B) IF ANY SLOPES ARE STEEPER THAN 3:1 A STABILITY ANALYSIS IS REQUIRED. C) IF CUT AND FILL OPERATIONS OCCUR DURING A SEASON NOT FAVORABLE FOR IMMEDIATE ESTABLISHMENT OF A PERMANENT GROUND COVER, A FAST GERMINATING ANNUAL SUCH AS RYE GRASSES SHALL BE UTILIZED TO RETARD EROSION.
34. THE CONTRACTOR SHALL KEEP EXISTING ROADWAYS CLEAN OF MUD AND DEBRIS.
35. ALL MATERIALS AND METHODS OF CONSTRUCTION FOR SANITARY SEWERS TO MEET THE LATEST STANDARDS AND SPECIFICATIONS OF CITY OF O'FALLON. (CURRENT EDITION).
36. ALL SEWER STRUCTURES TO CONFORM TO THE STANDARD DETAILS SHOWN IN METROPOLITAN ST. LOUIS SEWER DISTRICT "STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES" (1992 EDITION).
37. ALL SANITARY SEWER LATERALS TO BE CONSTRUCTED OF P.V.C. SDR-35 THICKWALL PIPE, A.S.T.M. D-3034.



- CONTRACTOR TO START LAYING PIPE AT DOWNSTREAM STRUCTURE AND WORK UPSTREAM.
  - SANITARY SEWER CONNECTION POINTS SHALL BE AS APPROVED BY THE CITY OF O'FALLON, MO.
  - ALL LATERAL SEWER CONSTRUCTION METHODS TO CONFORM TO LATEST STANDARDS AND SPECIFICATIONS OF THE CITY OF O'FALLON, MO. SHALL HAVE A MINIMUM GRADE OF 2%.
  - CLEANOUTS SHALL BE LOCATED AT ALL HORIZONTAL AND VERTICAL CHANGES IN DIRECTION OF FLOW OF HOUSE LATERALS AND ANY SANITARY LATERAL OF 100' FEET OR LONGER.
  - ALL STORM SEWER PIPES TO BE REINFORCED CONCRETE PIPE, ASTM DESIGNATION C76, CLASS III UNLESS A HIGHER CLASS IS NOTED ON THE PROFILES.
  - ALL DIMENSIONS AND OFFSET SETS REFER TO THE FACE/FRONT OF CURB OR AS NOTED.
  - PROPOSED GATE INLET TO BE CONSTRUCTED AT LOW POINT. CONTRACTOR TO FIELD VERIFY LOCATION OF LOW POINT BY TOPO SURVEY OR WATER FLOODING.
  - ALL CASTINGS, FRAMES, AND FITTINGS SHALL BE PLACED IN THE POSITIONS SHOWN AND SHALL BE SET TRUE TO LINE AND TO CORRECT ELEVATION UPON A FULL BED OF MORTAR. IF FRAMES OR FITTINGS ARE TO BE BOLTED OR ANCHORED IN CONCRETE OR BRICK MASONRY, ALL ANCHORS OR BOLTS SHALL BE SET AND HELD IN PLACE BEFORE THE CONCRETE OR MORTAR IS PLACED. THE UNIT SHALL NOT BE DISTURBED UNTIL THE MORTAR OR CONCRETE HAS HARDENED TO ADEQUATE STRENGTH.
  - FRAMES AND COVER, FRAMES AND GRATES, OR OTHER SIMILAR PAIRS OF ITEMS SHALL HAVE TRUE COMMON BEARING SURFACES SUCH THAT THE COVERS OR GRATES WILL SET FIRMLY WITHOUT ROCKING OR SHIFTING. THE GRATES OR COVERS SHALL BE PLACED AFTER THE FRAMES OR FITTINGS HAVE BEEN INSTALLED AND AFTER THE CONCRETE OR MORTAR HAS BEEN ALLOWED TO HARDEN FOR AT LEAST 24 HOURS AND WILL NOT BE DAMAGED.
  - SEWER AND UTILITY CONTRACTOR(S) SHALL ASCERTAIN THE EXACT LOCATION OF THE RETAINING WALL FOOTINGS PRIOR TO EXCAVATION, TO VERIFY THE CLEARANCES PROVIDED. ADJUSTMENTS, IF NECESSARY, SHALL BE AS DIRECTED BY THE ENGINEER.
  - ALL TRENCHES UNDER AREAS TO BE PAVED AND UNDER EXISTING PAVING SHALL BE BACKFILLED FULL HEIGHT WITH 3/4 INCH MINUS CRUSHED STONE COMPACTED IN 8" LIFTS. WHEREVER THE EDGE OF THE UTILITY AND/OR SEWER TRENCH IS LESS THAN THREE (3) FEET FROM THE PROPOSED OR EXISTING EDGE OF THE ROADWAY PAVEMENT, GRANULAR BACKFILL IS REQUIRED.
  - VERTICAL CLEARANCE BETWEEN SANITARY SEWER AND WATER MAINS SHALL BE MINIMUM OF 2'-0".
  - WATER SERVICE LINES, TAPS AND METER SETS SHALL BE IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODE(S) AND THE RULES OF THE CITY OF O'FALLON, MO.
  - WATER SERVICE LINES MUST BE LAID IN A TRENCH SEPARATE FROM THE SEWER TRENCHES BY AT LEAST TEN (10) FEET HORIZONTALLY, AND WHERE THE SERVICE LINE CROSSES THE SEWER, EIGHTEEN (18") INCHES HIGHER ABOVE OR BELOW THE SEWER.
  - ALL FIRE AND DOMESTIC WATER SERVICE LINES MUST HAVE A MINIMUM COVER OF FORTY TWO (42) INCHES AT ALL POINTS.
  - WATER SERVICE LINES GREATER THAN 1" BUT LESS THAN 4" IN DIAMETER SHALL BE FLEXIBLE OR RIGID TYPE "K" OR "L" COPPER, WITH FLARED, COMPRESSION OR SILVER SOLDERED JOINTS.
  - MATCH EXISTING CURBING AND PAVEMENT IN HORIZONTAL LOCATION AND ELEVATION.
  - EXCEPT WHERE NOTED ON THE GRADING PLAN, THE FINISH GRADE AT THE BUILDING FACE SHALL BE 8" BELOW THE FIRST FLOOR (SLAB) ELEVATION, AND SHALL SLOPE AWAY FROM THE BUILDING AT 1/2" PER FOOT FOR TEN (10) FEET.
  - CONCRETE SLABS IN THE TRASH HANDLING AREAS TO BE EIGHT (8) INCHES THICK, REINFORCED WITH 6 X 6, 6/6 W/F.
  - OPEN CUT CROSSING
    - JEPEN-TRENCH CROSSING OF BRYAN ROAD WILL REQUIRE FULL-SLAP PAVEMENT REMOVAL AND REPLACEMENT WITH COMPACTED GRANULAR-BACKFILL AND PAVEMENT IMPROVEMENT PLANS.
    - THE OPEN TRENCH CROSSING OF BRYAN ROAD IS TO BE ACCOMPLISHED ONE LANE AT A TIME IN ORDER THAT AT LEAST ONE (1) LANE OF TRAFFIC BE MAINTAINED DURING WORKING HOURS. DURING OTHER TIME PERIODS, THE ROAD SHALL BE RETURNED TO NORMAL TWO (2) WAY TRAFFIC.
    - CITY OF O'FALLON SHALL BE NOTIFIED 48 HOURS PRIOR TO BEGINNING WORK WITHIN BRYAN ROAD R.O.W.
  - EXCAVATIONS WITHIN CITY R/W
    - ALL EXCAVATIONS WITHIN THE ROAD RIGHT-OF-WAY SHALL BE COVERED AND PROTECTED AT ALL TIMES OTHER THAN DURING WORKING OPERATIONS. EXCAVATED MATERIALS SHALL NOT BE STORED ON THE ROADWAY SURFACE OVERNIGHT. PAVEMENT SHALL BE REPAIRED AND CLEAN AND FREE OF MUD, ROCK AND DEBRIS AT ALL TIMES. FLAGMEN, BARRICADES AND/OR OTHER SAFETY DEVICES ARE REQUIRED AS DIRECTED BY THIS DEPARTMENT.
    - FOLLOWING CONSTRUCTION OF CONSTRUCTION, ALL TEMPORARY MATERIALS SHALL BE REMOVED AND THE ROADWAY RIGHT-OF-WAY RESTORED TO ITS ORIGINAL CONDITION. ALL DISTURBED EARTHEN AREAS WITH THE RIGHT-OF-WAY SHALL BE REGRADED AND RESTORED BY SODDING. EXISTING IMPROVEMENTS DAMAGED WITHIN THE ROAD RIGHT-OF-WAY SHALL BE REPLACED AS DIRECTED BY THE CITY OF O'FALLON.
  - CONSTRUCTION EQUIPMENT SHALL BE LOCATED ON THE PAVEMENT SURFACE SO AS TO MAINTAIN AT LEAST ONE (1) LANE OF TRAFFIC DURING NORMAL WORKING HOURS. SUCH EQUIPMENT SHALL BE SHIELDED WITH BARRICADES, CONES, ETC., WITH TWO (2) FLAGMEN TO HANDLE TRAFFIC. THE STREET SHALL BE RETURNED TO NORMAL TWO-WAY TRAFFIC AT THE END OF EACH WORK DAY.
  - ALL GRADING SHALL BE IN CONFORMANCE WITH THE CITY OF O'FALLON STANDARDS. SILTATION DEVICES SHALL BE INSTALLED AND MAINTAINED BY THE APPLICANT AS DIRECTED BY THE CITY OF O'FALLON.
  - AREAS TO BE SEDED SHALL BE FINEGRADED AND RAKED TO THE REQUIRED FINISHED SURFACES AND GRASSES AND FERTILIZED. FERTILIZER SHALL BE A STANDARD COMMERCIAL PRODUCT WITH A MINIMUM COMPOSITION OF 4 PERCENT AVAILIBLE NITROGEN, 12 PERCENT AVAILIBLE PHOSPHATES AND 4 PERCENT POTASH.
  - SEED TO BE USED SHALL BE A GOOD GRADE SUITABLE MIXED LAWN GRASS, APPROVED BY THE STATE OF MISSOURI FOR VIABILITY AND FREEDOM FROM EXCESSIVE AMOUNTS OF WEED SEEDS. SUCH APPROVED SEED MIX SHALL CONSIST OF: 80 PERCENT FESTA II RYE AND 20 PERCENT TOUCHDOWN KENTUCKY BLUE GRASS OR 1. KENTUCKY BLUE GRASS, NOT LESS THAN 65 PERCENT; 2. RED FESCUE, 15 PERCENT; 3. RED TOP, 5 PERCENT; 4. ANNUAL RYE, 15 PERCENT.
  - THE SEED SHALL BE EVENLY SOWN ON THE PREPARED, MOIST, FERTILIZED (13-25-12) SURFACE AT THE RATE OF SIX POUNDS PER ONE-THOUSAND SQUARE FEET, LIGHTLY RAKED, AND COVERED WITH PULVERIZED STRAW, ROLLED, WATERED WITH A FINE SPRAY TO AVOID WASHING OF THE SEED, AND KEPT MOST UNTIL ACCEPTANCE OF THE WORK.
- GENERAL NOTES MODULAR BLOCK WALLS
- Install wall units per manufacturers specifications where wall is shown on plans in accordance with maximum allowable heights shown here.
  - Leveling pad subgrade and soil retained behind rock backfill must consist of undisturbed virgin soil of low plasticity. Cut for retaining wall shall be examined by the project Geotechnical Engineer prior to wall installation to verify soil conditions.
  - The clean rock backfill horizontal distance behind units must be equal or exceed 50% of wall height for nonreinforced areas. Maximum allowable unit weight = 100 pcf.
  - Unless otherwise noted, materials and installation procedures shall be in accordance with the National Concrete Masonry Association Design Manual for Segmental Retaining Walls.

**CASEY'S General Stores, Inc.**

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980890TL DWG

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DATE: 03-27-99

Drawn By: MG

Checked By: DCW

Project Number: 98089

Sheet Number: 4 of 5

MSD P- BASEMAP

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DATE: 01-12-99

REVISIONS

1. 1"=20'-0"

SCALE: T.GRUBER

DRAWN BY: CONSTRUCTION DIVISION

DATE: 11-20-98

DRAWING NUMBER: PLAN "G" 40'-0" x 68'-0"

**WIND ENGINEERING COMPANY**

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MSD P- BASEMAP