

CONSTRUCTION NOTES:

GENERAL

CIVIL/SITE ENGINEERING: UNLESS OTHERWISE SPECIFICALLY NOTED OR SPECIFIED THE FOLLOWING ARE THE REQUIREMENTS FOR THE SITE DEVELOPMENT WORK. IF THE REQUIREMENTS CONFLICT WITH DRAWINGS/SPECIFICATIONS/AUTHORITIES HAVING JURISDICTION, THE STRICTEST ITEM SHALL GOVERN.

1. THE EXISTING INFORMATION SHOWN HEREIN WAS MADE AVAILABLE FROM SURVEY PREPARED BY HLG SURVEYERS, DATED MAY 25, 2005. THE CONTRACTOR SHALL FIELD VERIFY PRIOR TO CONSTRUCTION, CONTACT THE ENGINEER IF THE EXISTING CONDITION IS DIFFERENT THAN SHOWN AND/OR ANY DISCREPANCY IS FORESEEN TO THE PROPOSED CONSTRUCTION.

2. ALL EARTHWORK, BACKFILL, COMPACTION AND GRADING SHALL BE PERFORMED AS PER THE RECOMMENDATION OF THE SOIL ENGINEERING REPORT PREPARED BY -----, UNLESS MORE STRINGENT REQUIREMENT IS INDICATED IN THE DRAWING AND SPECIFICATIONS.

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFORM TO ALL REQUIREMENTS OF THE OEPA FOR SEDIMENTATION AND SOIL EROSION CONTROL.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING ALL OSHA GUIDELINES AND SAFETY REGULATIONS FOR CONSTRUCTION.

5. PROVIDE GRANULAR BACKFILL FOR ALL UTILITY TRENCHES UNDER PAVED AREAS UNLESS SPECIFICALLY NOTED OTHERWISE.

6. PROTECT ALL TREES NOT NOTED FOR REMOVAL DURING CONSTRUCTION.

7. INSURE POSITIVE DRAINAGE, WITHOUT PUDDLES, ACROSS ALL FINISHED GRADED SURFACES.

8. ALL AREAS DISTURBED BY GRADING AND CONSTRUCTION SHALL BE FINE GRADED AND SEEDED WITHIN 15 DAYS OF COMPLETION.

9. THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL UTILITIES, STRUCTURES AND ITEMS TO REMAIN. THIS INCLUDES PROVIDING OF TEMPORARY OR PERMANENT BRACING, SHORING AND SPECIALIZED CONSTRUCTION SEQUENCING.

10. ALL CONSTRUCTION AND MATERIAL SHALL CONFORM TO THE AUTHORITIES HAVING JURISDICTION. IF THE CONTRACT DOCUMENT CONFLICTS, THE STRICTER REQUIREMENT SHALL GOVERN.

11. THE CONTRACTOR SHALL MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS AT ALL TIMES, EXCEPT DURING SPECIFIC PERIODS OF CONSTRUCTION WHERE THE TRAFFIC CONTROL MEASURES ARE AS NOTED.

12. A REGISTERED SURVEYOR SHALL PERFORM ALL FIELD STAKING.

13. PROVIDE AN AS-BUILT GRADING PLAN CERTIFIED BY SURVEYOR UPON COMPLETION OF THE CONSTRUCTION.

14. CONTACT ALL APPLICABLE UTILITY COMPANIES PRIOR TO ANY EXCAVATION AND TRENCHING WORK. (OUPS NOTE)

15. MEET EXISTING GRADE AT THE END OF THE GRADING LIMIT OR PROPERTY LINE.

16. SAW CUT NEATLY AT THE POINT WHERE EXISTING PAVEMENT IS TO BE REMOVED.

A) ASPHALT

1. ALL THICKNESSES SHOWN IN THE DOCUMENT ARE COMPACTED THICKNESS. DO NOT VARY THICKNESS MORE THAN 1/8" IN 10 FEET.

2. MINIMUM ASPHALT THICKNESS SHALL BE 2X MAXIMUM AGGREGATE SIZE.

3. APPLY TACK COAT (CMS #407) BETWEEN EACH LAYER IF THE SURFACE IS CONTAMINATED BY VEHICULAR TRAFFIC OR OTHER IMPURITIES.

4. INSTALL THE AGGREGATE BASE IN TWO EQUAL LIFTS, EACH LIFT COMPACTED AS SPECIFIED.

5. FEATHER NEW ASPHALT TO MEET EXISTING.

6. INSTALL STRIPING AS INDICATED. ALL PAVEMENT MARKING SHALL CONFORM TO ODOT #640.

7. PROVIDE CONCRETE BUMPER BLOCKS ANCHORED TO THE PAVEMENT WHERE INDICATED.

8. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR PAVEMENT IF WATER PONDS BEYOND 24 HRS. OF TIME AFTER RAINFALL.

B) CURB

1. UNLESS OTHERWISE NOTED, THE CURB SHALL BE: STRAIGHT 18" CONFORMING TO ODOT #609.

2. ALL CURB CUT DRIVEWAY APPROACHES SHALL CONFORM TO THE AUTHORITIES HAVING JURISDICTION. MINIMUM DRIVEWAY: 6" CONCRETE W/6 X 6 X 2.9/2.9 WWF APPROACH.

3. PROVIDE ADA COMPLIANT CURB RAMPS CONFORMING TO ODOT #608.

C) CONCRETE

1. ALL-CONCRETE SHALL BE CLASS C, 4000 PSI AIR ENTRAINED CONCRETE, CONFORMING TO ODOT #499.

2. SIDEWALK SHALL BE 4" CONCRETE (AND 4" AGGREGATE BASE), UNLESS OTHERWISE NOTED.

3. CONCRETE FOR PIPE ENCASEMENT SHALL CONFORM TO ODOT #602.

4. PROVIDE 1" DEEP SCORED JOINTS AT 5' C/C AND EXPANSION JOINT AT 30' C/C AND WHERE NEW CONCRETE ABUTS STRUCTURES.

E) GRADING

1. PROVIDE UNDERDRAIN AND SLOPE AS REQUIRED TO KEEP THE BUILDING PAD AND FOOTING DRY AND SUITABLE FOR CONSTRUCTION.

2. MAINTAIN 3' HORIZONTAL AND 1' VERTICAL CLEARANCE FROM EXISTING UTILITIES AND STRUCTURES TO REMAIN.

3. MINIMUM GRADE FROM BUILDING FLOOR OR GRADE ADJACENT TO THE BUILDING TO THE TOP OF THE CURB SHALL BE 1/4" PER FOOT.

4. ALL CONCRETE PAVEMENT SHALL BE SLOPED AT 1/4" PER FOOT.

5. UNLESS OTHERWISE NOTED THE BACKFILLING AND COMPACTION SHALL BE AS FOLLOWS:

A) UNDER THE BUILDING PAD AND 4 FEET BEYOND: MAX 6" LIFT, EACH LIFT COMPACTED TO 98% STANDARD PROCTOR CONFORMING TO ASTM D698.

B) UNDER THE PAVED AREA AND BACKFILL ADJACENT TO THE BUILDING: MAX 8" LIFT, EACH LIFT COMPACTED TO 95% STANDARD PROCTOR, CONFORMING TO ASTM.

C) LAWN AREA: MAX 12" LIFT EACH LIFT COMPACTED TO 90% STANDARD PROCTOR, CONFORMING TO ASTM D698.

6. ALL EXCESS EXCAVATION SHALL BE HAULED AWAY FROM SITE UNLESS A SPECIFIED AREA OF SPILLAGE IS INDICATED ON THE DRAWING.

7. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SUITABLE EARTH, BORROWED FROM OFFSITE, AS REQUIRED FOR GRADING. MINIMUM WEIGHT OF IMPORTED SOIL (FREE FROM ORGANIC AND CONTAMINATED MATERIAL, TO BE 110 LB./CU.FT. AT OPTIMUM MOISTURE CONTENT.

8. MINIMUM OF 6" OF TOPSOIL SHALL BE PLACED IN THE LAWN AREA.

9. PROVIDE COMPACTED GRANULAR BACKFILL UNDER ALL PAVED AREAS FOR UTILITY TRENCHES. GRANULAR MATERIAL SHALL BE #67 STONE, COMPACTED IN 12" LIFTS, OR AS PER ITEMS 703.11 ODOT

10. AGGREGATE BASE UNDER WALKS AND SLAB SHALL BE #57 STONE.

F) STORM DRAINAGE

1. CONNECT ALL ROOF DRAINS, FOUNDATION (RETAINING WALL) UNDERDRAINS TO THE STORM SEWER. EXACT LOCATION OF THE DRAINS TO BE FIELD DETERMINED. THE MINIMUM ROOF DRAINAGE PIPE SHALL BE 6" DIA. SCHEDULE 40 PVC.

2. UNLESS SPECIFICALLY REQUIRE BY THE AUTHORITIES HAVING JURISDICTION, THE PIPES SHALL BE AS FOLLOWS:
8" - 12" DIA. ODOT #707.33 ;PVC, RCP, ODOT #706 .02
12" - 24" DIA. RCP #706.02

3. PROVIDE THE CATCH BASINS AS FOLLOWS: ODOT 603.

A) PIPE SIZE 8" - 15" DIA. DEPTH LESS THAN 4 FT. 24" X 24" CONFORMING TO ODOT 601.

B) PIPE SIZE 8" - 15"DIA. DEPTH GREATER THAN 4 FT. (ODOT 601)

4. ALL STRUCTURES SHALL HAVE BICYCLE PROOF HEAVY-DUTY GRATING IN THE PAVED AREA AND MEDIUM DUTY GRATING IN THE NON-PAVED AREA.

5. MINIMUM COVER OVER PIPE SHALL BE 30". IF THE COVER IS NOT AVAILABLE, ENCASE THE PIPE IN 6" OF CONCRETE SURROUND PER STD DWG.

6. SHAPE AND CHANNEL THE BOTTOM OF ALL STRUCTURES.

7. PROVIDE CLEANOUT AT ROOF DRAIN CONNECTIONS.

8. PROVIDE 10' LONG FINGER DRAIN ENCASED IN GRAVEL FOR CATCH BASINS, AS SHOWN ON PLAN.

G. SANITARY SEWER

1. VERIFY AND COORDINATE INVERT ELEVATION AT THE BUILDING OUTLET.

2. MINIMUM COVER OVER PIPE SHALL BE 30". IF THE COVER IS NOT AVAILABLE, ENCASE THE PIPE IN 6" IN CONCRETE SURROUND.

3. UNLESS SPECIFICALLY REQUIRED BY THE AUTHORITIES HAVING JURISDICTION, PROVIDE THE FOLLOWING PIPES:

A) 6" TO 10" DIA. PVC (SDR), 35, ODOT 707.33.

4. ALL GRATING IN THE PAVED AREA SHALL BE OF HEAVY DUTY GRATING.

5. PROVIDE 6" CLEANOUT AT THE BUILDING.

6. MAXIMUM DROP IN THE MANHOLE SHALL BE 24". PROVIDE OUTSIDE DROP ENCASED IN CONCRETE FOR DROP MORE THAN 24".

H) WATER DISTRIBUTION

1. WATER PIPES SHALL BE INSTALLED WITH A MINIMUM COVER OF 48".

2. UNLESS SPECIFICALLY REQUIRED OTHERWISE BY THE AUTHORITIES HAVING JURISDICTION, THE PIPES SHALL BE:

A) 3"- 10" PVC/DUCTILE IRON

B) 12"- 36" CAST IRON/DUCTILE IRON

3. COORDINATE AND VERIFY LOCATION OF THE METER PRIOR TO CONSTRUCTION. PROVIDE METER BOX OR METER PIT FOR EXTERIOR LOCATIONS.

4. PROVIDE FIRE HYDRANT(S) WITH SHUT OFF VALVES CONFORMING TO THE AUTHORITIES HAVING JURISDICTION. LOCATION OF THE FIRE HYDRANT(S) TO BE AS SHOWN ON SHEET CE-301.

5. ALL CONNECTIONS TO THE EXISTING MAIN SHALL BE MADE WITH SELF-TAPPING SLEEVE AND VALVE, UNLESS REQUIRED TO BE OTHERWISE BY AUTHORITIES HAVING JURISDICTION.

6. PROVIDE SHUT OFF VALVE WITH BOX, WHERE INDICATED AND AT THE RIGHT OF WAY.

7. PROVIDE THRUST BLOCKS AT ALL INTERSECTIONS, STOPS, VALVES, BENDS AND RISERS.

8. LOWER THE EXISTING MAIN CONFORMING TO THE DETAIL CMS, L-7401, WHERE UTILITY CONFLICTS ARE ENCOUNTERED.

I) GAS SERVICE

1. COORDINATE LOCATION, VALVING, CONNECTION, TAPPING AND METERING WITH THE LOCAL GAS COMPANY.

2. THE GAS SERVICE SHALL BE INSTALLED WITH MINIMUM COVER OF 30". THE GAS SERVICE PIPE SHALL BE:

A) 1/2"- 2" - POLY, BLACK STEEL

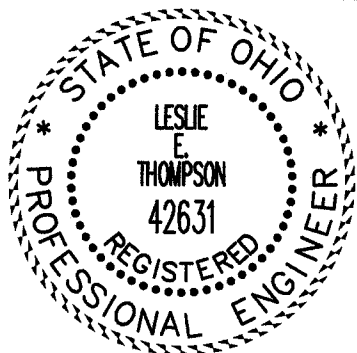
B) 2" - 6" - BLACK STEEL

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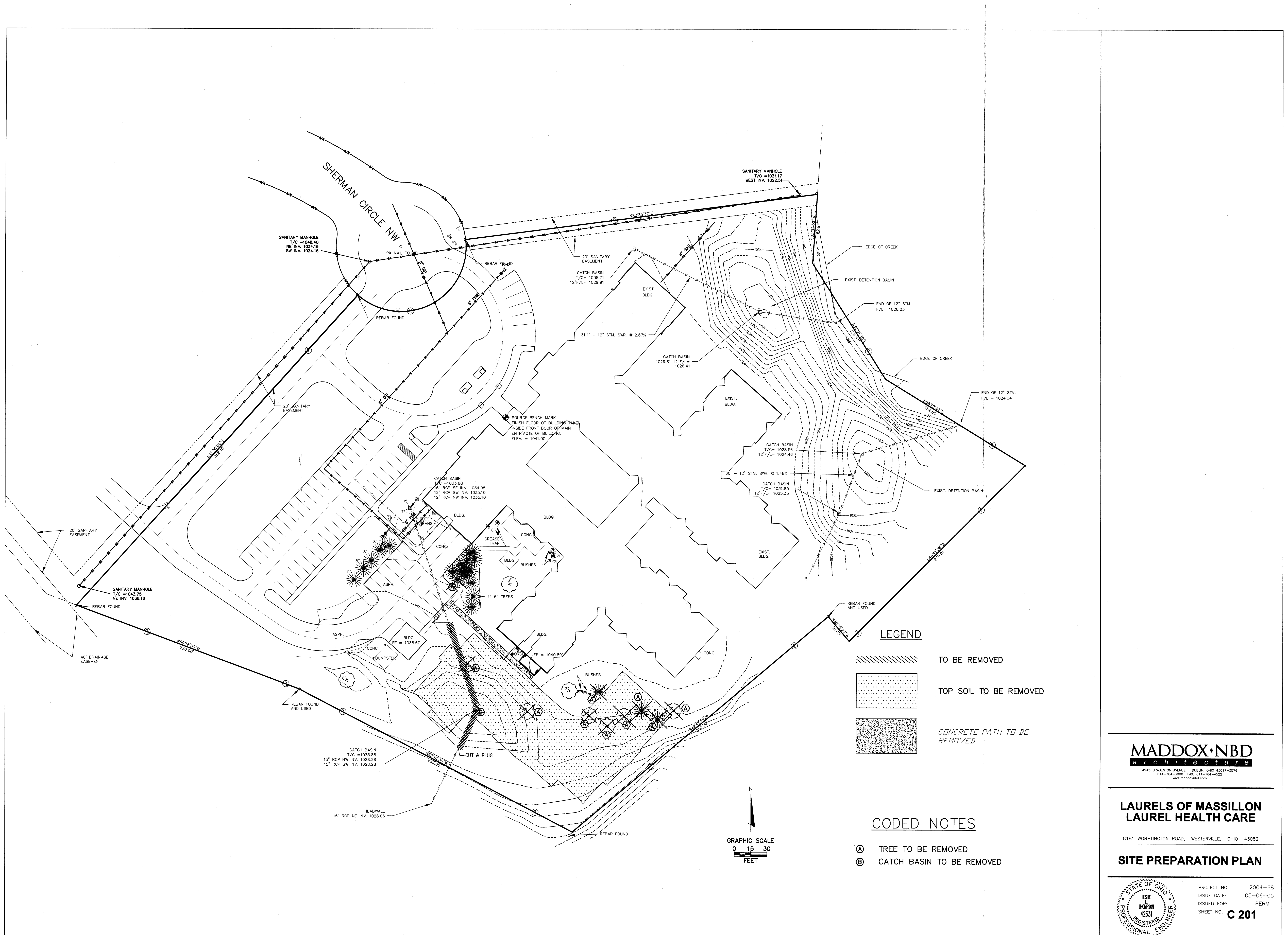
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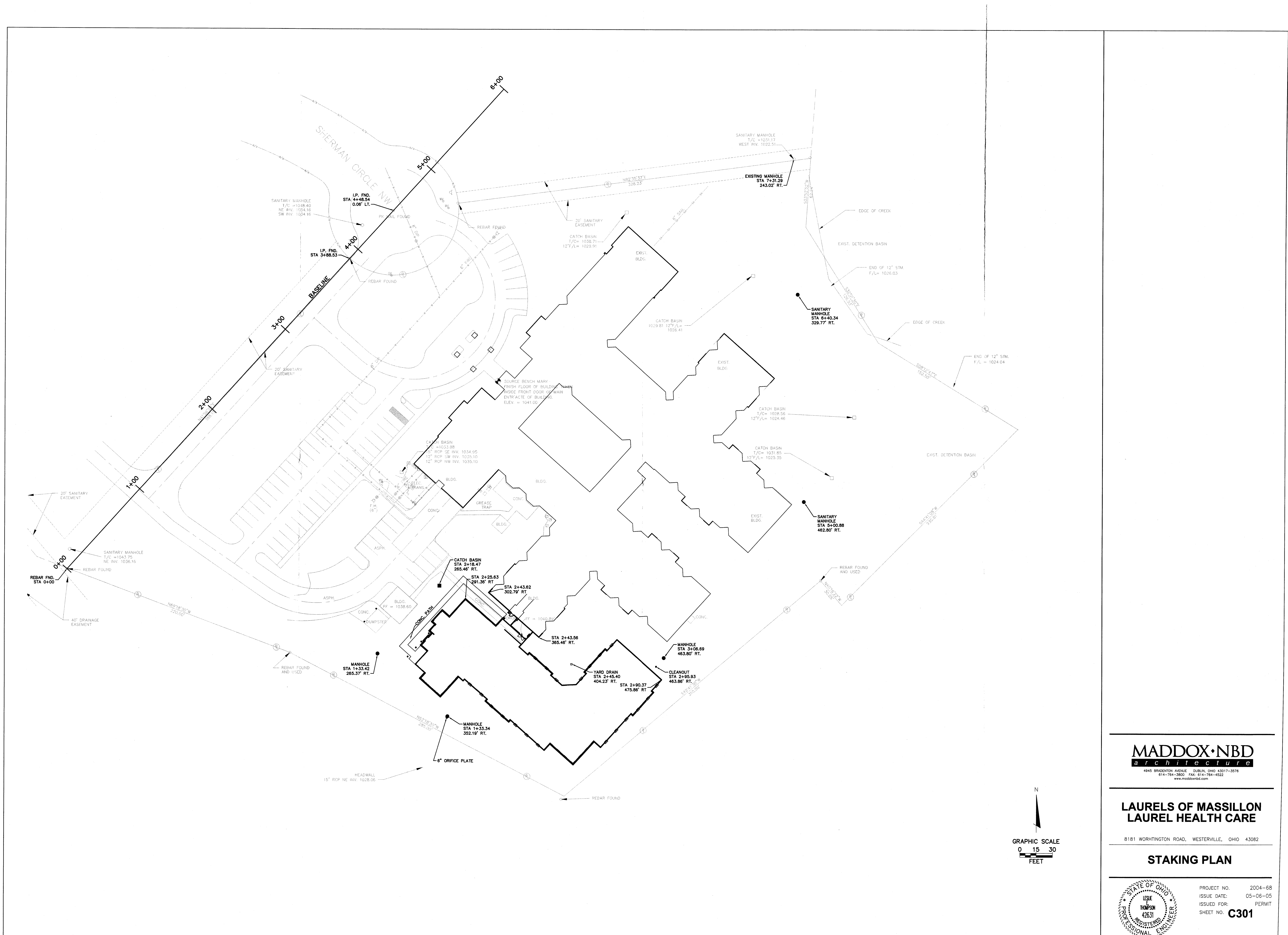
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GENERAL NOTES



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SHEET NO. **C 101**





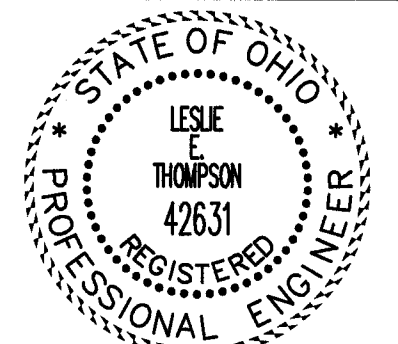
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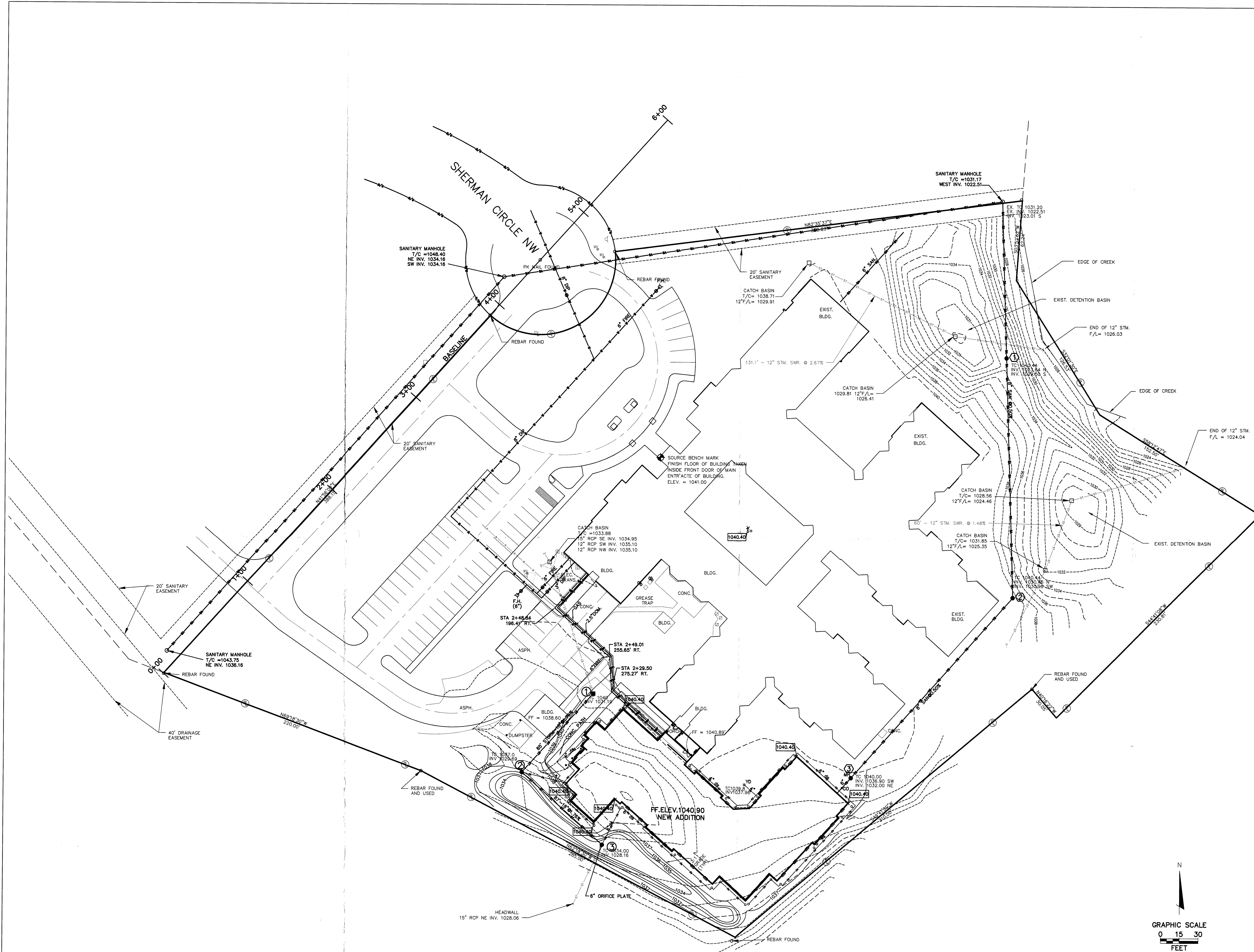
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STAKING PLAN



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GRADING AND UTILITY PLAN



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SANITARY SEWER NOTES:

1. SANITARY SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO CITY OF MASSILLON ENGINEERING DEPARTMENT SPECIFICATIONS AND DETAILS IN EFFECT AT TIME OF CONSTRUCTION.

2. ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.

3. THE CONTRACTOR SHALL NOTIFY ALL PROPERTY OWNERS ALONG THE ROUTE OF THE SANITARY SEWER AT LEAST THREE (3) DAYS PRIOR TO THE START OF CONSTRUCTION.

4. THE CONTRACTOR SHALL ALERT THE UTILITIES PROTECTION SERVICE AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY MAINTAINING EXISTING SANITARY FLOW DURING THE CONSTRUCTION AND TESTING OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR'S METHODS FOR MAINTAINING FLOW MUST BE APPROVED BY THE CITY OF MASSILLON ENGINEERING DEPARTMENT AT THE PRE-CONSTRUCTION MEETING.

6. ALL ROUGH GRADING TO WITHIN SIX (6) INCHES OF FINISHED GRADE SHALL BE COMPLETED WITHIN THE RIGHT-OF-WAY AND EASEMENTS PRIOR TO SANITARY SEWER CONSTRUCTION.

7. BULKHEADS SHALL BE ERECTED IN EXISTING MANHOLES WHERE TAPS FOR NEW MAINLINE SEWERS ARE MADE AND SHALL REMAIN IN PLACE UNTIL THE NEW SEWERS ARE COMPLETE, TESTED AND APPROVED. IN CASES WHERE A BULKHEAD WOULD INTERRUPT THE FLOW FROM EXISTING SERVICE CONNECTIONS THE BULKHEAD SHALL BE PLACED IN THE FIRST NEW MANHOLE UPSTREAM OF THE EXISTING MANHOLE.

8. MINIMUM VERTICAL CLEARANCE BETWEEN SANITARY SEWER AND WATERLINE SHALL BE 18 INCHES. MINIMUM HORIZONTAL SEPARATION SHALL BE 10 FT.

9. SANITARY SEWER SERVICE LATERALS SHALL BE 6-INCH DIAMETER AND BE LAID AT NO LESS THAN 1.0% GRADE.

10. FOR NEW SUBDIVISION CONSTRUCTION SEWER SERVICE LATERALS SHALL EXTEND 12" INTO THE LOTS OR BEYOND FURTHEST UTILITY, WHICHEVER IS GREATER, WHEN THE MAIN SEWER IS IN A STREET RIGHT-OF-WAY, AND SHALL TERMINATE AT THE EASEMENT LINE WHEN THE MAIN SEWER IS IN AN EASEMENT, FOR OTHER SEWER EXTENSIONS, SEWER LATERALS SHALL TERMINATE AT THE RIGHT-OF-WAY LINE OR THE EASEMENT LINE, WHICHEVER IS APPLICABLE.

11. SERVICE STACKS SHALL BE DUCTILE IRON PIPE REGARDLESS OF MAIN SEWER MATERIAL. A CAST IRON TEE SHALL BE INSTALLED IN THE MAIN SEWER. CONCRETE ENCASUREMENT WILL NOT BE REQUIRED.

12. MINIMUM COVER OVER SANITARY SEWER SHALL BE 4 FT.

13. ACCEPTABLE SANITARY SEWER PIPE MATERIALS ARE AS FOLLOWS:

MATERIAL DESCRIPTION	SPECIFICATIONS		
	PIPE	JOINT	INSTALLATION
PVC SMOOTH EXTERIOR	ASTM D-3034	ASTM D-3212	ASTM D-2321
VCP EXTRA STRENGTH	ASTM C-700	ASTM C-425	ASTM C-12
DDP (CLASS 52)	AWWA C-151	AWWA C-110/C-111	AWWA C-151
ABS COMPOSITE	ASTM D-2680	ASTM D-2235	ASTM D-2680
PVC COMPOSITE	ASTM D-2680	ASTM D-2564	ASTM D-2680

14. ALL SANITARY SEWERS, 8-INCH DIAMETER AND LARGER, MUST PASS AN INTERNAL TELEVISION INSPECTION. THE CONTRACTOR SHALL PROVIDE COMPLETE INTERNAL INSPECTION VIDEOTAPE TO THE CITY OF MASSILLON ENGINEERING DEPARTMENT. THE VIDEOTAPE PROCEDURE SHALL BE IN ACCORDANCE WITH CITY OF MASSILLON ENGINEERING DEPARTMENT SPECIFICATIONS.

15. A DEFLECTION TEST SHALL BE REQUIRED FOR ALL FLEXIBLE PIPE OF 8-INCH DIAMETER AND LARGER. THE TEST SHALL BE CONDUCTED AT LEAST 30 DAYS AFTER COMPLETION OF BACKFILL AND SHALL BE IN ACCORDANCE WITH CITY OF MASSILLON ENGINEERING DEPARTMENT SPECIFICATIONS. THE ALLOWABLE DEFLECTION RATE SHALL NOT EXCEED FIVE (5%) PERCENT. TESTING SHALL BE IN ACCORDANCE WITH ASTM D-3034.

16. ALL SANITARY SEWERS MUST PASS ALLOW PRESSURE AIR TEST, WHICH SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM F-1417 (PLASTIC PIPE) OR ASTM C-828 (CLAY PIPE). THE MAXIMUM ALLOWABLE TEST LEAKAGE SHALL BE 100 GAL/INCH OF DIAMETER/MILE/DAY.

17. MANHOLE CONSTRUCTION SHALL MEET THE REQUIREMENTS OF ASTM C-478 AND C-443. ALL MANHOLES SHALL BE AIR/VACUUM TESTED IN ACCORDANCE WITH AND MEET ALL THE REQUIREMENTS OF ASTM C-1244.

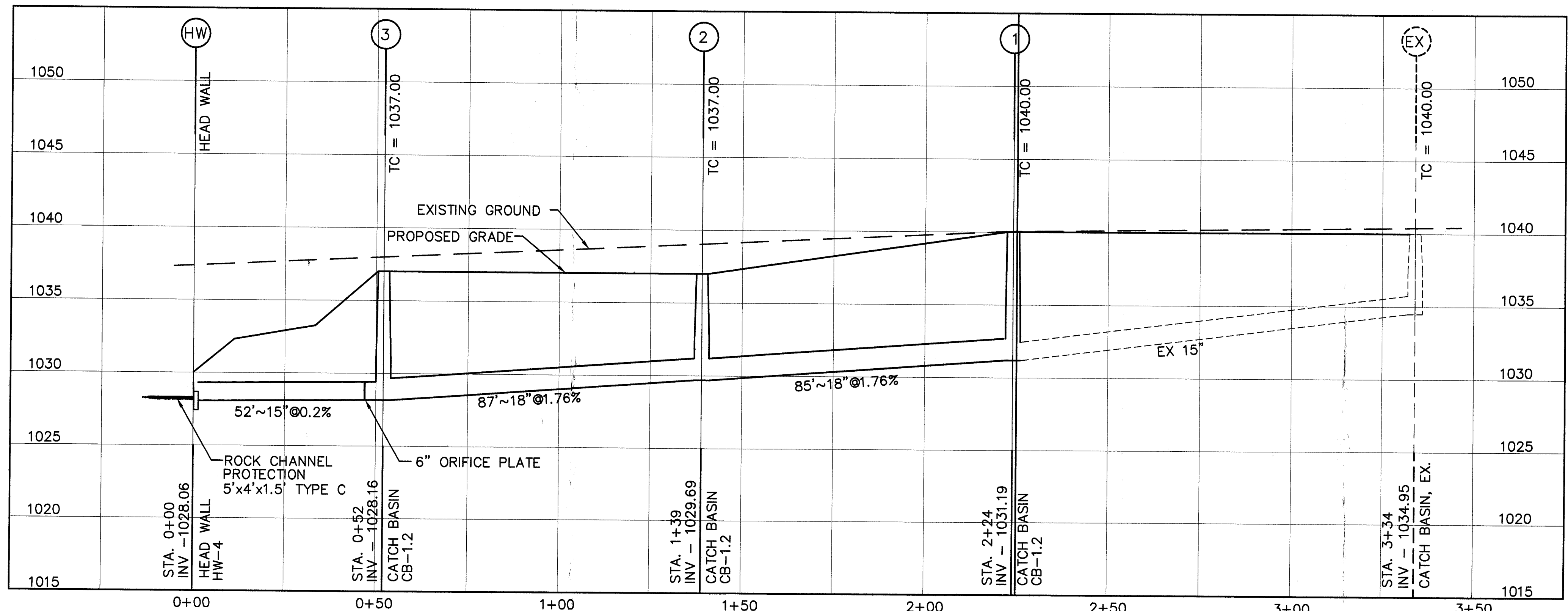
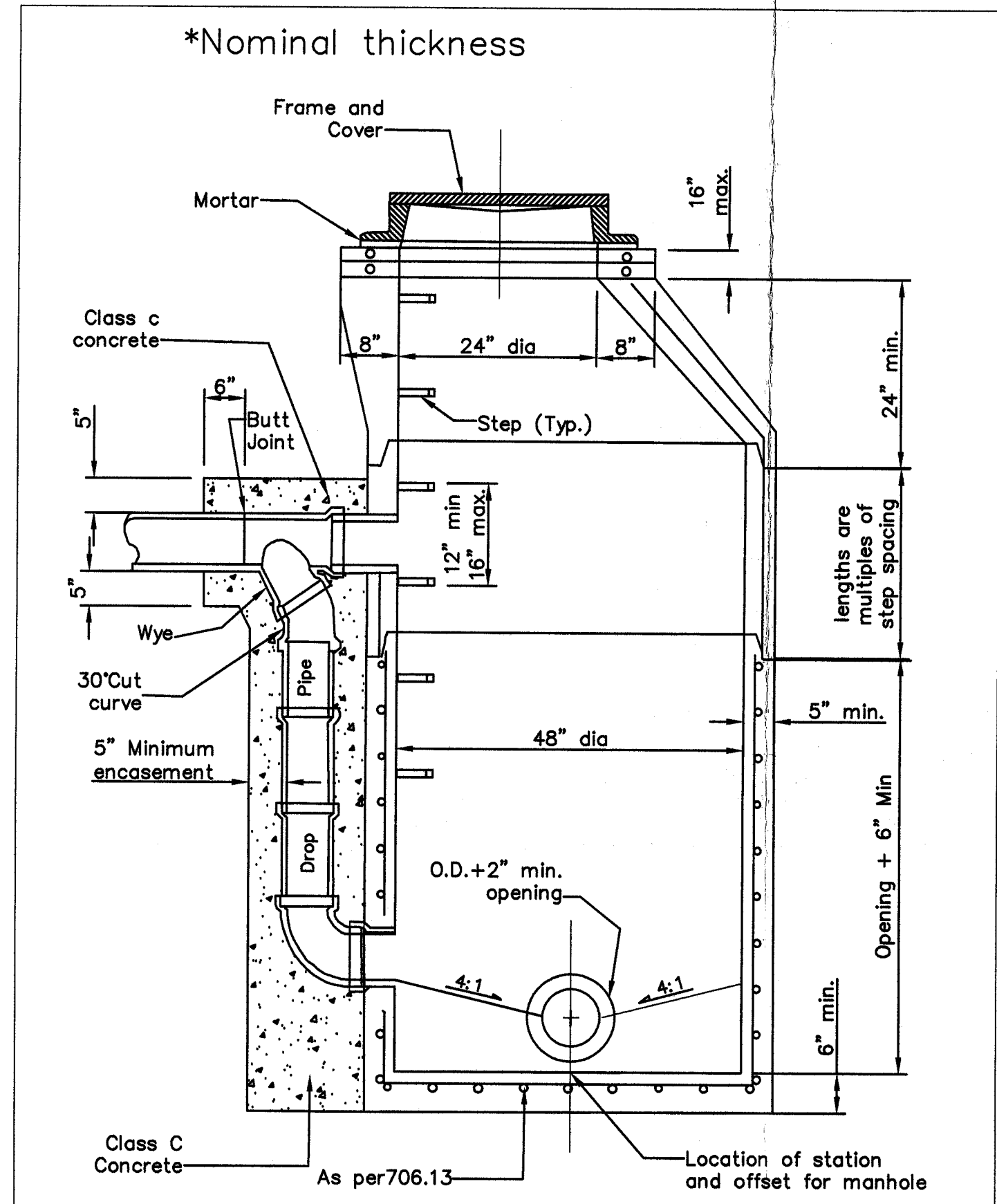
18. CONNECTIONS TO EXISTING MANHOLES SHALL BE CORE DRILLED, WITH BENCHES AND CHANNELS FORMED AND REPAIRED AS NECESSARY.

19. ANY MANHOLE DROP ATTACHMENTS SHALL BE "OUTSIDE" TYPE.

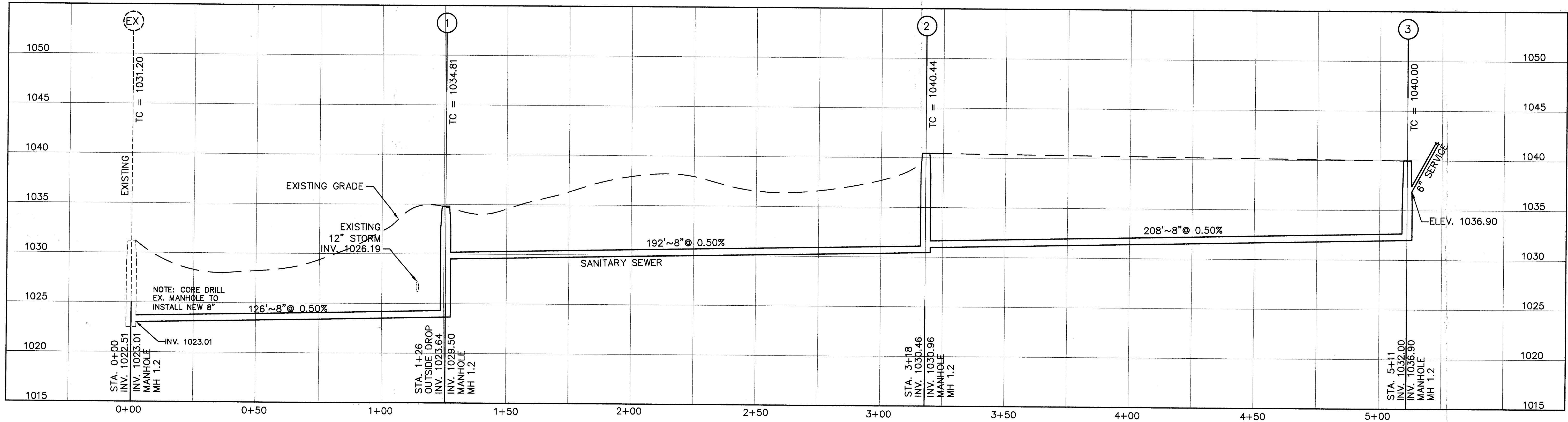
20. MANHOLE TOP OF CASTING ELEVATIONS MAY REQUIRE ADJUSTMENT DURING SITE GRADING. MANHOLE COVERS MAY NOT BE BURIED. UPON COMPLETION OF CONSTRUCTION AND RESTORATION, ALL MANHOLES, PROPOSED AND EXISTING, SHALL BE IN CONFORMANCE IN ALL RESPECTS WITH CITY OF MASSILLON ENGINEERING DEPARTMENT SPECIFICATIONS AND DETAILS.

21. PRE-CONSTRUCTION MEETING IS REQUIRED, CONTACT CITY OF MASSILLON ENGINEERING DEPARTMENT AT 330-830-1722 AND STARK SOIL AND WATER DISTRICT AT 330-830-7700.

22. SANITARY PERMITS ARE REQUIRED, CONTACT THE CITY OF MASSILLON ENGINEERING DEPARTMENT FOR LICENSE AND PERMIT REQUIREMENTS.



STORM PROFILE



SANITARY PROFILE

GRAPHIC SCALE GRAPHIC SCALE
0 10 20 FEET 0 2.5 5 FEET
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

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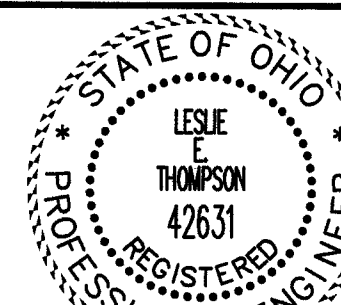
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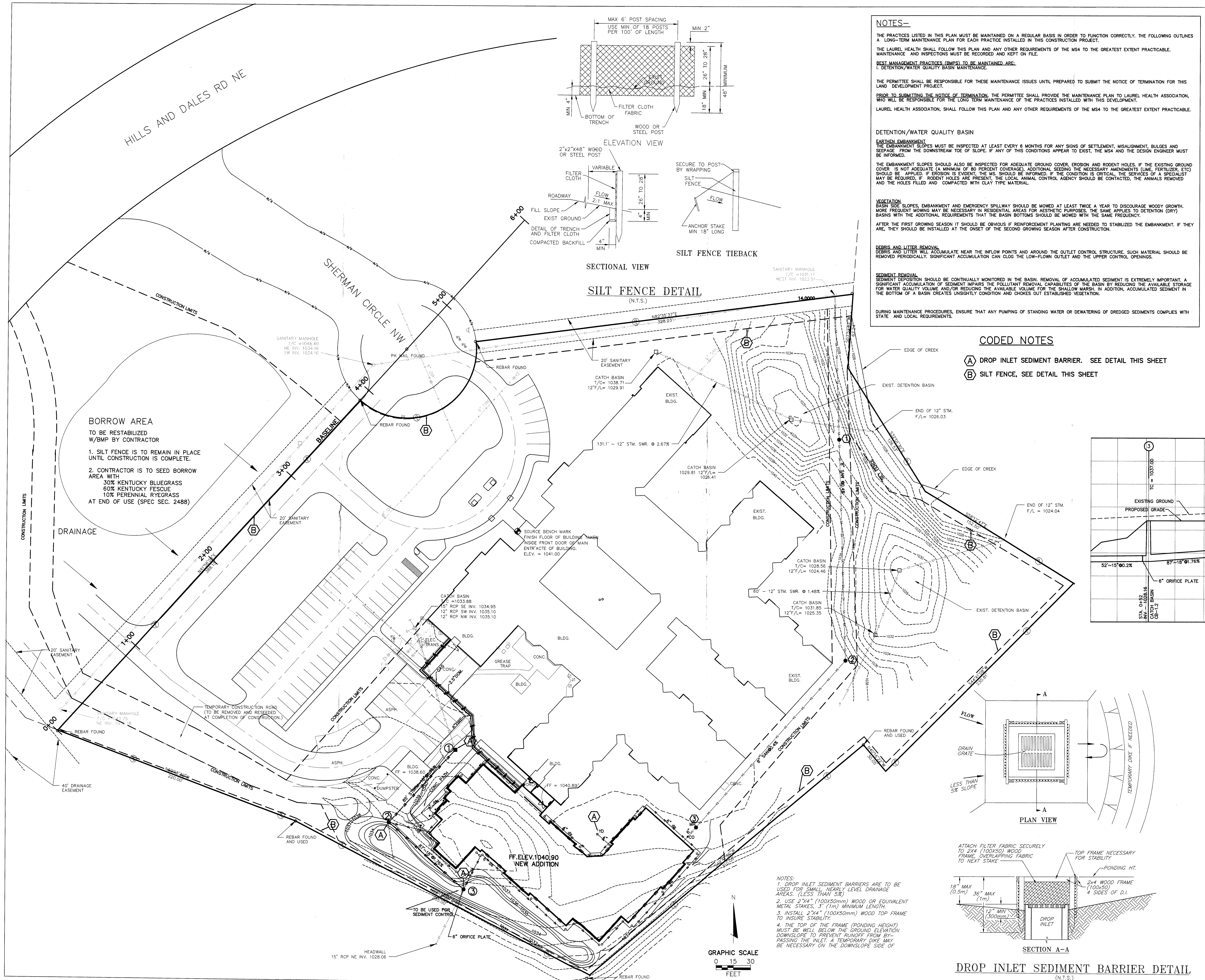
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STORM AND SANITARY PROFILES



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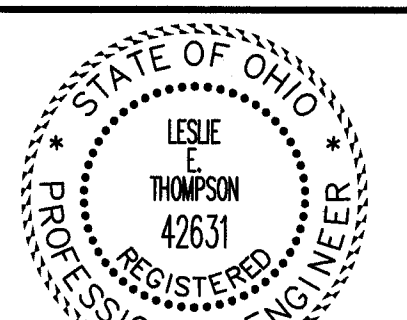
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EROSION CONTROL PLAN



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