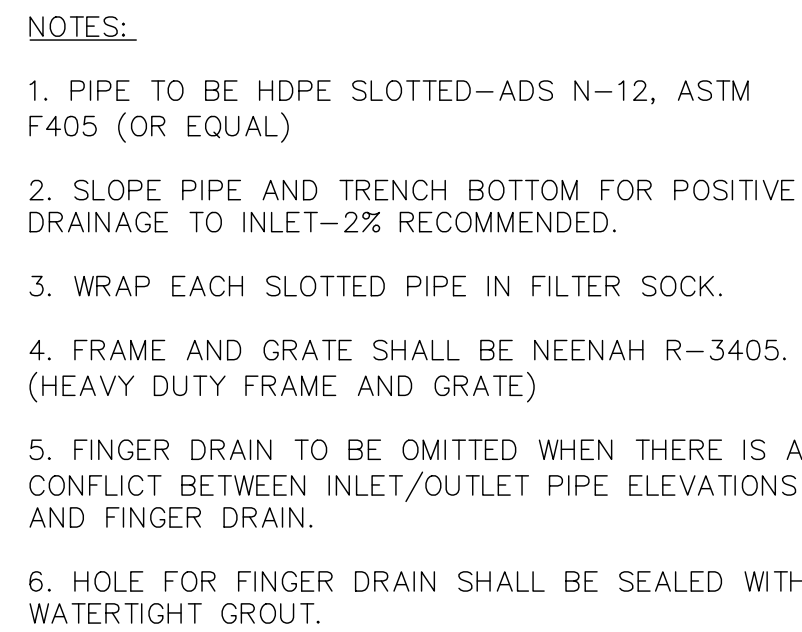
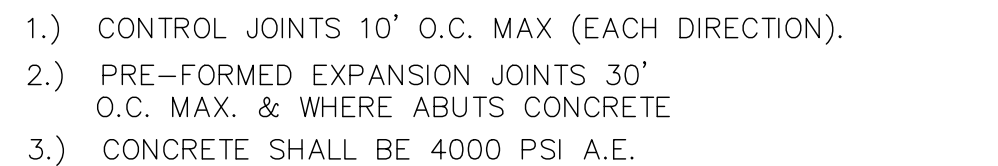
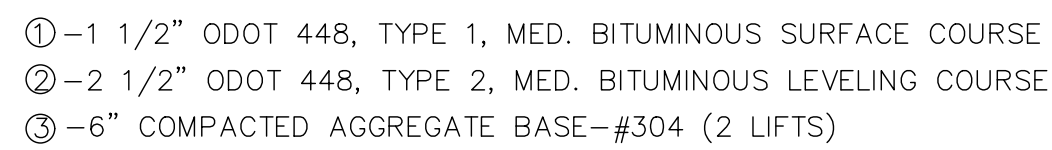




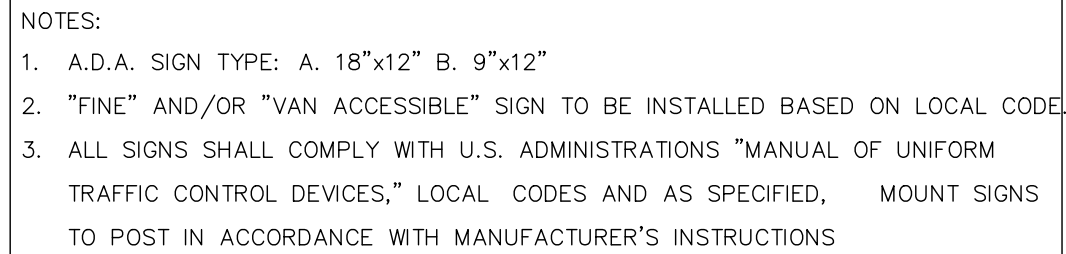
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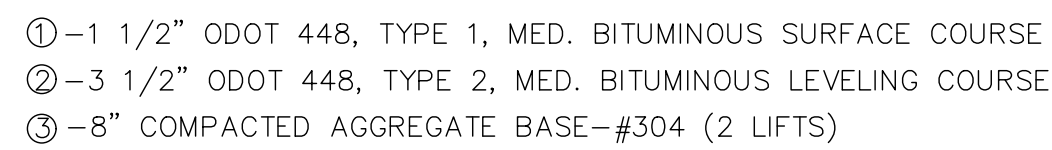
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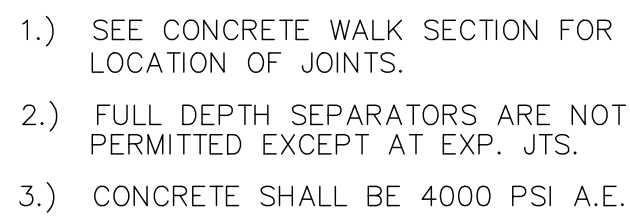
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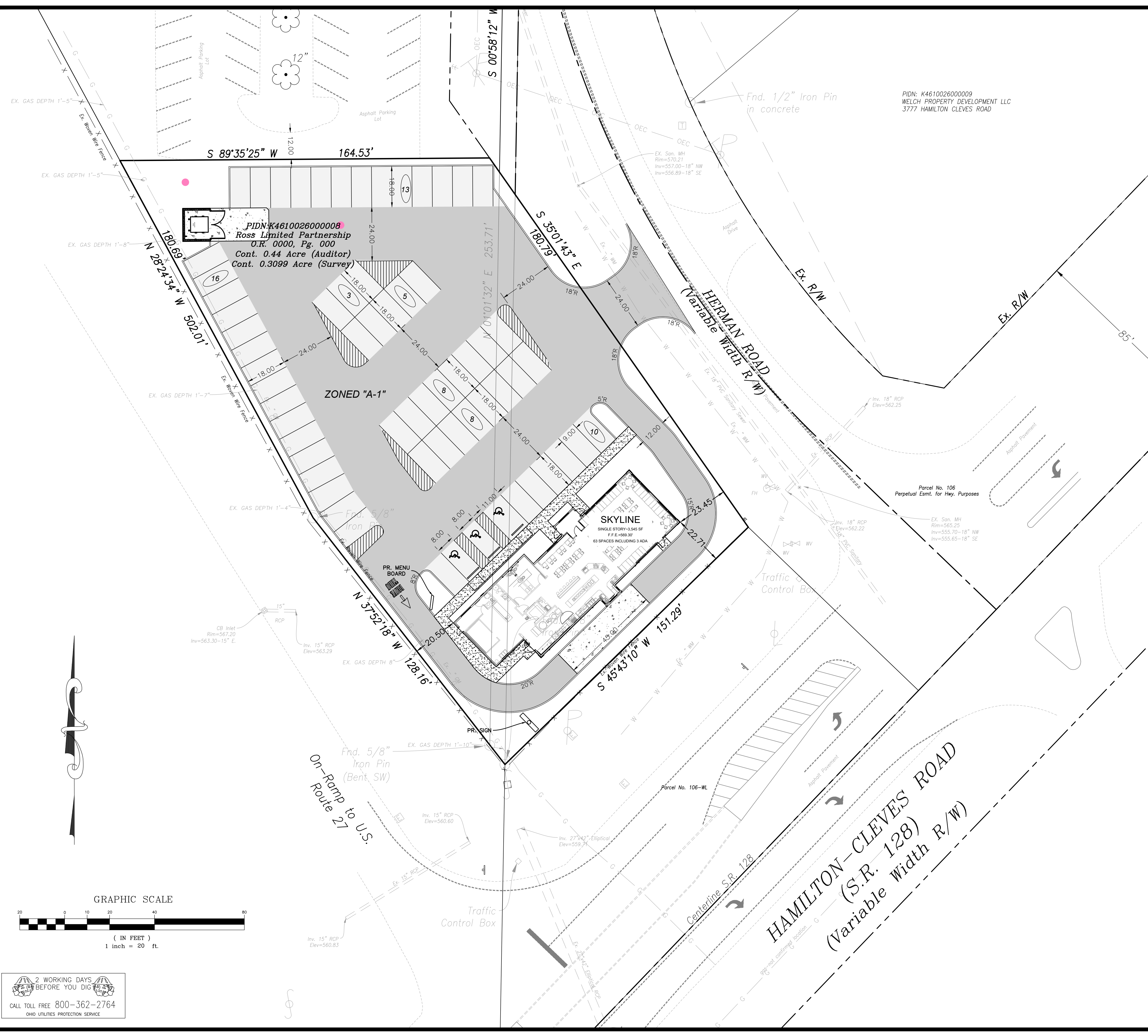
1) ROADSaver 221; CRAFCO INC.
2) PRODUCT #9005 OR #9030;
KOCH MATERIAL COMPANY
3) SEALTIGHT HI-SPEC; W.R.
MEADOWS, INC.



NOT TO SCALE



NOT TO SCALE



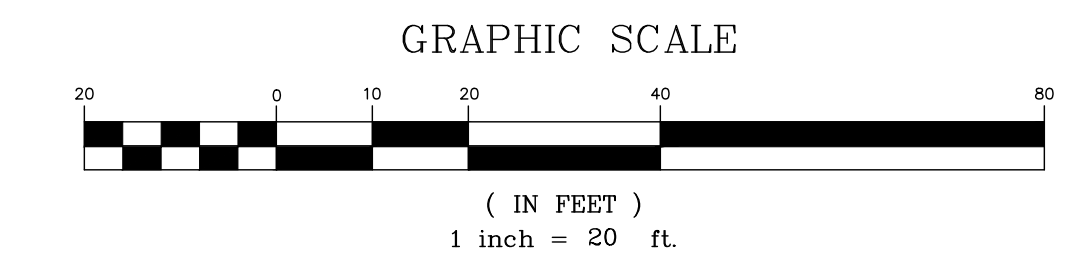
LEGEND-PROP. FEATURES

- NEW PORTLAND CEMENT CONCRETE PAVEMENT
- NEW PORTLAND CEMENT CONCRETE WALK
- NEW MEDIUM DUTY ASPHALT PAVEMENT
- NEW HEAVY DUTY ASPHALT PAVEMENT

SEE LANDSCAPE PLAN, BY OTHERS. ALL AREAS NOT PAVING, OR BUILDING ARE TO BE COVERED WITH GRASS/TURF UNLESS OTHERWISE NOTED.

NOTES:

- CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST FOR REPAIRING OR RELOCATING ALL UTILITIES AFFECTED BY CONSTRUCTION. LOCATIONS AS SHOWN ARE BASED UPON UTILITY RECORDS AND FIELD SURVEY BY LAND CONSULTANTS, JUNE 2017.
- ALL UTILITY SERVICES SHOULD BE COORDINATED WITH THE LOCAL PROVIDER FOR OPTIMAL PLACEMENT OF SERVICES (SEE COVER SHEET FOR CONTACTS).
DUKE ENERGY-GAS/ELECTRIC
CINCINNATI BELL TELEPHONE-TELEPHONE
BUTLER COUNTY WATER & SEWER
SOUTHWEST REGIONAL WATER DISTRICT
FURTHERMORE, ALL BUILDING UTILITY CONNECTION POINTS SHALL BE VERIFIED WITH CURRENT ARCHITECTURAL AND M.E.P. PLANS PRIOR TO STARTING CONSTRUCTION.
- THE COST OF ALL UTILITY TAPS AND COORDINATION FEES SHALL BE THE RESPONSIBILITY OF THE OWNER.
- IF LOWEST LEVEL ELEVATION IS BELOW RIM ELEVATION OF UPSTREAM MANHOLE, THEN TAP MUST INCLUDE BACKFLOW PREVENTION OR BE PUMPED TO GRAVITY.
- SANITARY CLEANOUTS WITHIN PAVEMENT SHALL HAVE NEENAH R-1976 LID AND FRAME.
- COORDINATE WITH BCDES FOR BUILDING WATER TAP.
- ROOF DRAINS, FOUNDATION DRAINS, COOLING WATER, SWIMMING POOL WATER OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
- ROOF DRAINS SHALL BE SDR 35 AND TIED DIRECTLY INTO THE UNDERGROUND STORM SEWER SYSTEM.
- SEE ELECTRICAL PLAN (BY OTHERS) FOR LOCATION OF METER PACKS.
- A SIGN PERMIT IS NECESSARY. APPLICANT MUST SUBMIT AND GET APPROVAL BY ZONING DEPARTMENT AND BUILDING DEPARTMENT PRIOR TO CONSTRUCTION.
- ALL DIMENSIONS ARE TO FACE OF CURB, CENTERLINE OF STRIPE, PROPERTY LINE OR R/W UNLESS OTHERWISE NOTED.
- ALL CURB RADII ARE 3' UNLESS OTHERWISE NOTED.
- ALL CONSTRUCTION STAGING ACTIVITIES MUST BE SELF-CONTAINED WITHIN THE LOT.
- ALL STORAGE OF CONSTRUCTION MATERIALS, CONSTRUCTION STAGING AREAS AND THE PARKING OF CONSTRUCTION VEHICLES, INCLUDING VEHICLES OF WORKERS, SHALL OCCUR ONLY ON THE SUBJECT PROPERTY.
- ONLY THE ACCESS POINTS LOCATED UPON THE PROPERTY SHALL BE USED BY ALL LABORERS, SUPPLIERS, CONTRACTORS AND OTHERS CONNECTED WITH SUCH CONSTRUCTION ACTIVITIES.
- ALL CONCRETE FOR SITE WORK SHALL BE PER ODOT 452, CLASS "C", 4,000 PSI., 5-7% A/E.



2 WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

STATE OF OHIO
JONATHAN R. EVANS
E-65653
REGISTERED PROFESSIONAL ENGINEER
11/8/2017
REGISTERED ENGINEER No. 65653

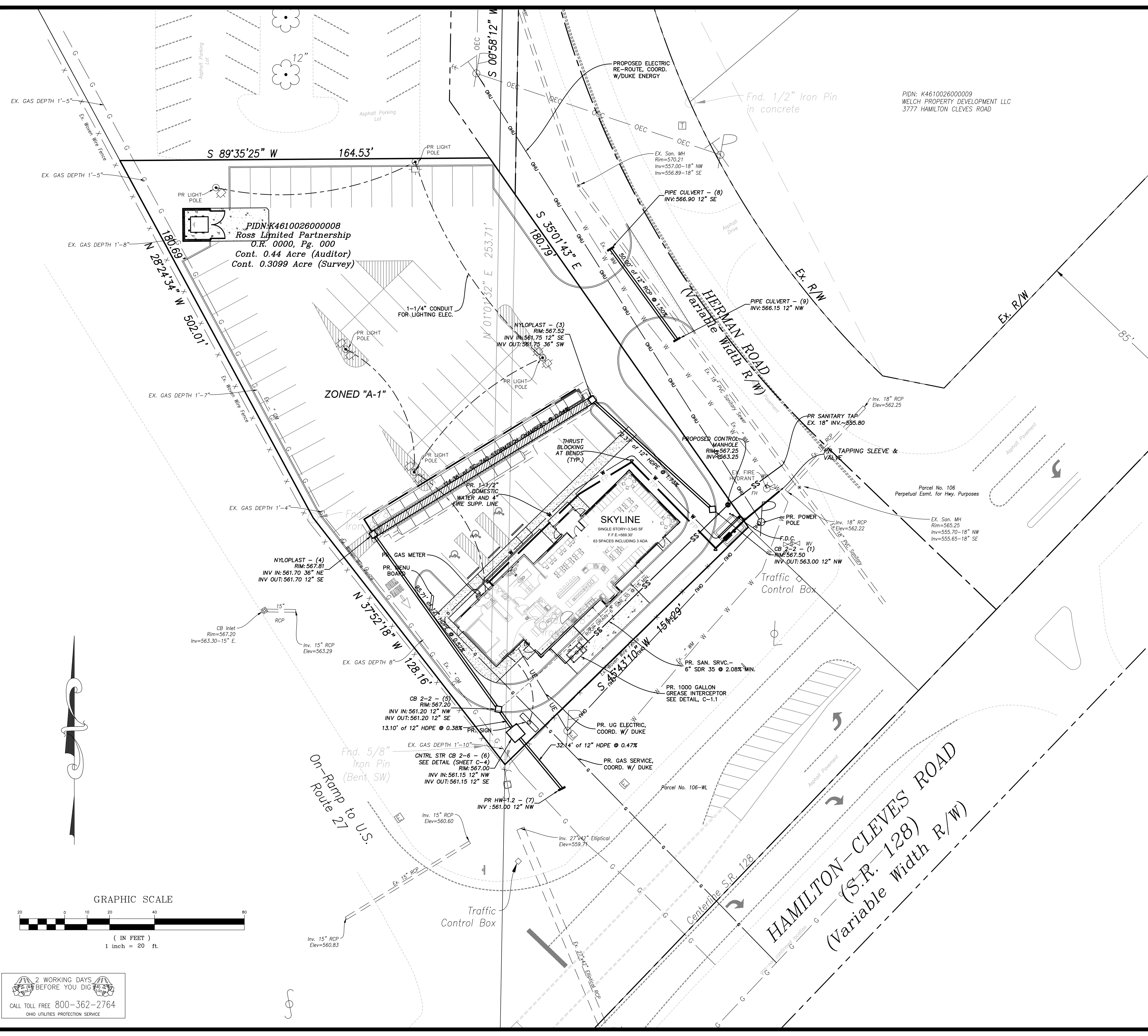
REVISIONS	
NO.	DESCRIPTION

EVANS ENGINEERING
4240 AIRPORT ROAD, SUITE 211
CINCINNATI, OHIO 45226
(513) 321-2168

SKYLINE CHILL - ROSS TOWNSHIP
SITE DIMENSION PLAN
3781 HERMAN ROAD.
ROSS TOWNSHIP, BUTLER COUNTY, OHIO

SCALE:	HORIZ.	VERT.
	1"=20'	N/A
JOB NO.	17-110	
DATE	Nov. 8, 2017	

SHEET NO.
C-3



LEGEND-PROP. FEATURES

- PROPOSED DOMESTIC WATER SERVICE (1-1/2" LINE)
- PROPOSED FIRE SPRINKLER LINE (4" LINE)
- ALL WATER LINES TO HAVE A MINIMUM OF 42" OF COVER
- PROPOSED 6" SANITARY LATERAL PVC SDR 35 @ 2.08% MIN.
- PROPOSED UNDERGROUND ELECTRIC SERVICE
- PROPOSED ELECTRIC TRANSFORMER
- PROPOSED UNDERGROUND TELEPHONE SERVICE
- PROPOSED GAS SERVICE (SIZE TBD BY USE)
- INSTALL 4" CONDUIT WITH PULL STRING AND LOCATOR WIRE
- PROPOSED UNDERGROUND CABLE CONDUIT
- PROPOSED 1-1/4" CONDUIT FOR UG ELEC TO LIGHT POLES/SIGNS
- DS -PR. DOWNSPOUT
- RD -PR. SDR 35 ROOF DRAIN (SIZE AND SLOPE AS NOTED)

NOTES:

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CINCINNATI BELL TELEPHONE-TELEPHONE
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- ALL CONCRETE FOR SITE WORK SHALL BE PER ODOT 452, CLASS "C", 4,000 PSI, 5-7% A.E.
- GAS SERVICE BROUGHT TO R/W BY DUKE UNDER SEPARATE PERMIT FROM ODOT. LEAVE PIT OPENING EVERY 100 FEET FOR DUKE GAS.

STATE OF OHIO
JONATHAN R. EVANS
E-65653
REGISTERED ENGINEER No. 65653
11/8/2017

REVISIONS	
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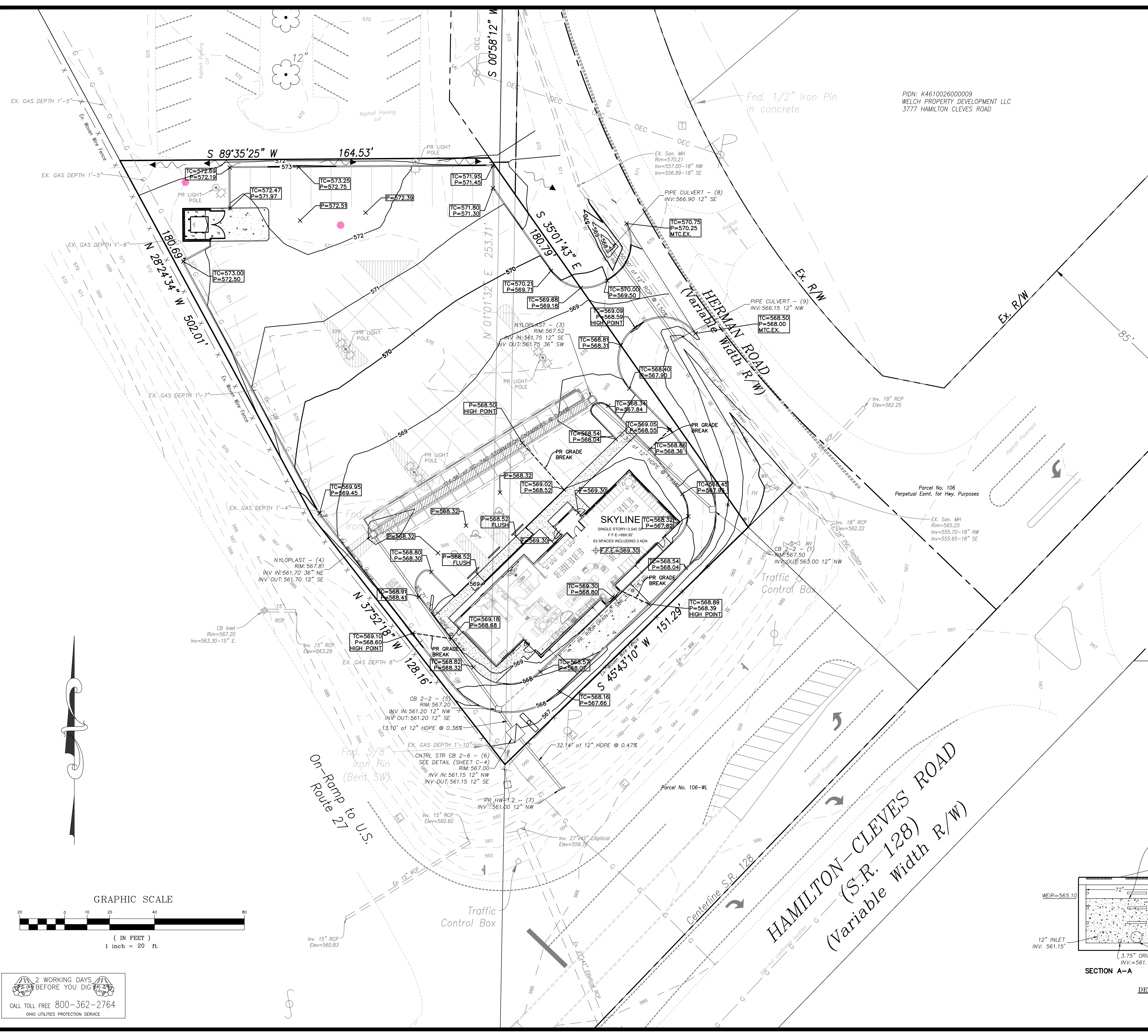
EVANS ENGINEERING
4240 AIRPORT ROAD, SUITE 211
CINCINNATI, OHIO 45226
(513) 321-2168

SKYLINE CHILL - ROSS TOWNSHIP
UTILITY SERVICE PLAN
3781 HERMAN ROAD.
ROSS TOWNSHIP, BUTLER COUNTY, OHIO

SCALE:	HORIZ.	VERT.
	1"=20'	N/A
JOB NO.	17-110	
DATE	Nov. 8, 2017	

SHEET NO.

C-3.1



GRADING LEGEND

TC=TOP OF CURB ELEVATION
P=FINISHED GRADE (PAVEMENT)
F =FINISHED GRADE
TW=TOP OF WALL
BW=BOTTOM OF WALL

B/C=EXISTING BACK OF CURB GRADE
B/W=EXISTING BACK OF WALL GRADE
EX.=EXISTING GRADE

GEOTECHNICAL NOTES:

1. THE CONTRACTOR SHALL USE THE "SUBSURFACE EXPLORATION & GEOTECHNICAL RECOMMENDATIONS" AS PREPARED BY ALT & WITZIG ENGINEERING, DATED APRIL 24, 2017 AND ANY SUBSEQUENT CORRESPONDENCE BY (AWE) AS THE TECHNICAL GUIDE FOR EARTHWORK OPERATIONS.
2. ALL GRADES SHOWN ON PLANS ARE FINAL, FINISHED GRADE.
3. EXISTING TOPSOIL MATERIALS AND STUMPS SHALL BE STRIPPED/REMOVED FROM THE CONSTRUCTION AREA AND WASTED OR STOCKPILED FOR REUSE LATER. THE EXACT DEPTH OF STRIPPING SHOULD BE DETERMINED BY A REPRESENTATIVE OF THE GEOTECHNICAL FIRM IN THE FIELD AT THE TIME OF STRIPPING. STUMPS SHALL BE DISPOSED OF PER LOCAL RULES AND REGULATIONS.
4. EXPOSED SUBGRADE SHALL BE PROOFROLLED TO DETERMINE ANY AREAS OF SOFT UNSUITABLE MATERIAL, PRIOR TO REFILLING.
5. IF UNSTABLE SOILS ARE ENCOUNTERED THE PROJECT GEOTECHNICAL ENGINEER SHALL BE CONSULTED FOR RECOMMENDED PROCEDURES TO PROVIDE FOR THE PROPER REMOVAL AND REPLACEMENT WITH SUITABLE FILL MATERIAL.
6. RECOMMENDED SPECIFICATIONS FOR COMPACTED FILLS AND BACKFILLS:

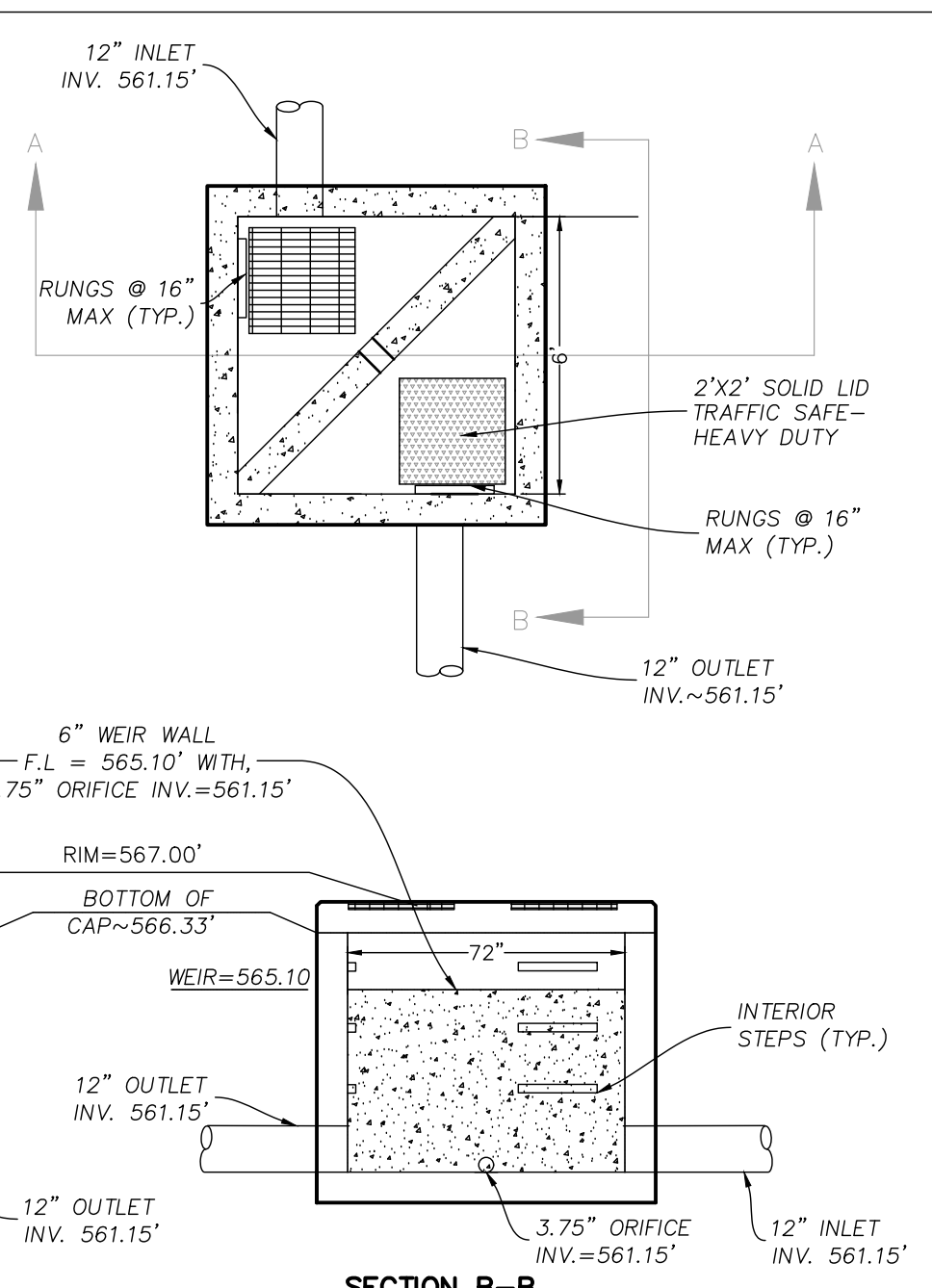
ALL FILLS SHALL BE FORMED FROM MATERIAL FREE OF VEGETABLE MATTER, RUBBISH, LARGE ROCK, AND OTHER DELETERIOUS MATERIAL. PRIOR TO PLACEMENT OF FILL, A SAMPLE OF THE PROPOSED FILL MATERIAL SHOULD BE SUBMITTED TO THE SOIL ENGINEER FOR HIS APPROVAL AND STANDARD PROCTOR TEST. THE FILL MATERIAL SHOULD BE PLACED IN LAYERS NOT TO EXCEED EIGHT (8") INCHES IN LOOSE THICKNESS AND SHOULD BE SPRINKLED WITH WATER, OR DRIED, AS REQUIRED TO SECURE SPECIFIED COMPACTIONS. EACH LAYER SHOULD BE UNIFORMLY COMPACTED BY MEANS OF SUITABLE EQUIPMENT OF THE TYPE REQUIRED BY THE MATERIALS COMPOSING THE FILL (SHEEPSFOOT ROLLER FOR CLAYEY SOILS.) UNDER NO CIRCUMSTANCES SHOULD TRACKED VEHICLES BE USED AS COMPACTING EQUIPMENT. MATERIAL CONTAINING AN EXCESS OF WATER SO THE SPECIFIED COMPACTION LIMITS CANNOT BE ATTAINED SHOULD BE SPREAD AND DRIED TO A MOISTURE CONTENT THAT WILL PERMIT PROPER COMPACTION. ALL FILL SHOULD BE COMPACTED TO THE SPECIFIED PERCENT OF THE MAXIMUM DRY DENSITY OBTAINED IN ACCORDANCE WITH ASTM DENSITY TEST D-698 (98% OF THE MAXIMUM DRY DENSITY). SHOULD THE RESULTS OF THE IN-PLACE DENSITY TEST INDICATE THAT THE SPECIFIED COMPACTION LIMITS ARE NOT OBTAINED, THE AREAS REPRESENTED BY SUCH TESTS SHOULD BE REMOVED AND REPLACED OR REWORKED AND RETESTED AS REQUIRED UNTIL THE SPECIFIED MINIMUMS ARE REACHED.
7. THE OWNER OR OWNER'S AGENT SHOULD RETAIN THE SERVICES OF A GEOTECHNICAL/TESTING FIRM (AWE), WHO SHOULD BE SCHEDULED BY THE CONTRACTOR 24 HOURS PRIOR TO ANY WORKING DAY. NO FILL MAY BE PLACED WITHOUT NOTIFICATION OF TESTING FIRM. OWNER TO DETERMINE ACTUAL FREQUENCY OF TESTING. DESIGNER RECOMMENDS FULL-TIME OBSERVATION/TESTING.

SPECIAL NOTES:

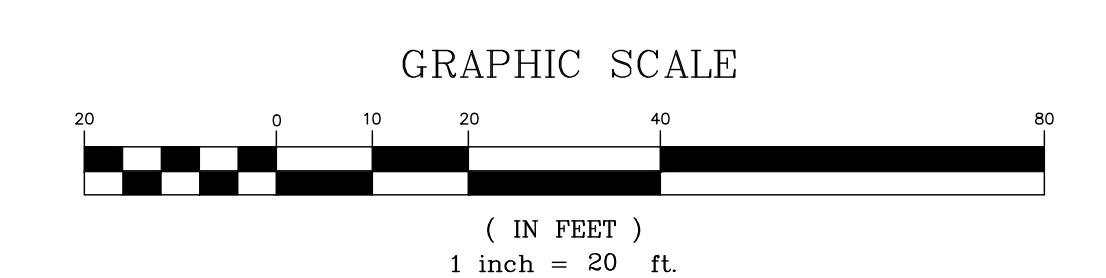
CONTRACTOR SHALL CONSULT WITH GEOTECHNICAL ENGINEER BEFORE COMMENCING EARTHMOVING ACTIVITIES.

TOPSOIL ~6" SHOULD BE DISTRIBUTED BACK ACROSS LANDSCAPE AREAS PRIOR TO SEEDING.

CONTRACTOR SHALL DISPOSE OF EXCESS MATERIAL IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS. EXPORTED MATERIAL SHALL BE TRANSPORTED TO AN APPROVED FILL AREA.



DETENTION CONTROL STRUCTURE
STRUCTURE NO. 6
MODIFIED ODOT CB 2-6
SCALE: 1" = 4'
4.00'



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OHIO UTILITIES PROTECTION SERVICE

STATE OF OHIO
JONATHAN R. EVANS
E-65653
REGISTERED PROFESSIONAL ENGINEER
11/8/2017
REGISTERED ENGINEER No. 65653

REVISIONS
NO. & DESCRIPTION
BY
DATE

EVANS ENGINEERING
4240 AIRPORT ROAD, SUITE 211
CINCINNATI, OHIO 45226
(513) 321-2168

SKYLINE CHILL - ROSS TOWNSHIP
GRADING PLAN
3781 HERMAN ROAD.
ROSS TOWNSHIP, BUTLER COUNTY, OHIO

SCALE: HORIZ. VERT.
1"=20' N/A
JOB NO. 17-110
DATE Nov. 8, 2017

SHEET NO.
C-4

EROSION AND SEDIMENT CONTROL NOTES:

PRE-CONSTRUCTION:

1. THE CONTRACTOR SHALL NOTIFY THE BUTLER COUNTY ENGINEER AT LEAST FIVE (5) DAYS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITIES AND, UNLESS WAIVED BY THE LOCAL AUTHORITY, WILL BE REQUIRED TO HOLD A PRE-CONSTRUCTION MEETING BETWEEN PROJECT REPRESENTATIVES FROM THE LOCAL AUTHORITY.

2. THE CONTRACTOR SHALL NOTIFY LOCAL AUTHORITY BY TELEPHONE AT THE FOLLOWING POINTS:

- A. THE REQUIRED PRE-CONSTRUCTION MEETING
B. FOLLOWING INSTALLATION OF SEDIMENT CONTROL MEASURES.
C. PRIOR TO REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL STRUCTURE
D. PRIOR TO REMOVAL OF ALL SEDIMENT CONTROL DEVICES
E. PRIOR TO FINAL ACCEPTANCE

3. A COPY OF THE APPROVED SEDIMENT AND EROSION CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.

4. THE CONTRACTOR SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE APPROVED PLAN AND CONSTRUCTION SEQUENCE AND SHALL HAVE THEM INSPECTED AND APPROVED BY A LOCAL AUTHORITY REPRESENTATIVE PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES.

5. THE CONTRACTOR SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE SEDIMENT CONTROL DEVICES AND SHALL NOT REMOVE AN EROSION OR SEDIMENT CONTROL MEASURE WITHOUT PRIOR PERMISSION FROM A LOCAL AUTHORITY REPRESENTATIVE.

6. THE CONTRACTOR MUST OBTAIN APPROVAL FROM THE LOCAL AUTHORITY BEFORE ANY CHANGES TO THE SEDIMENT CONTROL PLAN AND/OR SEQUENCE OF CONSTRUCTION. EITHER STAIR-STEP GRADING, GROWING, FURROWING, OR TRACKING IF THEY ARE TO BE STABILIZED WITH VEGETATION.

7. THE CONTRACTOR SHALL INSPECT DAILY AND MAINTAIN CONTINUOUSLY IN AN EFFECTIVE OPERATING CONDITION ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIMES AS THEY ARE REMOVED WITH PRIOR PERMISSION FROM A LOCAL AUTHORITY REPRESENTATIVE. THE CONTRACTOR SHALL KEEP WRITTEN RECORDS OF ALL SEDIMENT AND EROSION CONTROL INSPECTIONS AND MAINTENANCE FOR THE DURATION OF THE PROJECT. THIS INFORMATION MUST BE MADE AVAILABLE TO A LOCAL AUTHORITY REPRESENTATIVES UPON REQUEST.

SAFETY:

8. THE LOCAL AUTHORITY SITE REPRESENTATIVE ALWAYS HAS THE OPTION OF REQUIRING ADDITIONAL SAFETY OR SEDIMENT CONTROL MEASURES IF DEEMED NECESSARY.

9. WHERE DEEMED APPROPRIATE BY THE ENGINEER OR INSPECTOR, BASINS AND TRAPS MAY NEED TO BE SURROUNDED WITH AN APPROVED SAFETY FENCE. THE FENCE MUST CONFORM TO LOCAL ORDINANCES AND REGULATIONS. THE DEVELOPER OR OWNER SHALL CHECK WITH LOCAL BUILDING OFFICIALS ON APPLICABLE SAFETY REQUIREMENTS. WHERE SAFETY FENCE IS DEEMED APPROPRIATE AND LOCAL ORDINANCES DO NOT SPECIFY FENCING SIZES AND TYPES, THE FOLLOWING SHALL BE USED AS A MINIMUM STANDARD: THE SAFETY FENCE MUST BE MADE OF WELDED WIRE AND AT LEAST FORTY TWO (42) INCHES HIGH, HAVE POSTS SPACED NO FARTHER APART THAN EIGHT (8) FEET, HAVE MESH OPENINGS NO GREATER THAN TWO (2) INCHES IN WIDTH AND FOUR (4) INCHES IN HEIGHT WITH A MINIMUM OF 14 GAUGE WIRE. SAFETY FENCE MUST BE MAINTAINED AND IN GOOD CONDITION AT ALL TIMES.

10. STORM DRAIN INLETS IN NON-SUMP AREAS SHALL HAVE TEMPORARY ASPHALT PADS CONSTRUCTED AT THE END OF BASE GRADE TO DIRECT GUTTER FLOW INTO THE INLETS TO AVOID SURCHARGING AND OVERFLOW OF INLETS IN SUMP AREAS.

11. STOCKPILE SLOPES SHALL NOT BE STEEPER THAN 2:1.

STABILIZED CONSTRUCTION ENTRANCE:

12. THE CONTRACTOR SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO PUBLIC ROADS. ALL MATERIALS DEPOSITED ONTO PUBLIC ROADS SHALL BE REMOVED IMMEDIATELY USING A STREET SWEEPER OR SCRAPER. DEBRIS SHALL NOT BE WASHED OFF PAVED SURFACES OR INTO STORM DRAINS.

13. CONSTRUCTION ENTRANCES SHOULD NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES. VEHICLES THAT ENTER AND LEAVE THE SITE SHALL BE RESTRICTED FROM MUDDY AREAS OR CLEANED BEFORE LEAVING SITE.

SEDIMENT TRAPS AND BASINS:

14. SEDIMENT TRAPS OR BASINS ARE NOT PERMITTED WITHIN TWENTY (20) FEET OR AN EXISTING OR PROPOSED FOUNDATION OR TRAFFIC AREA. NO STRUCTURE MAY BE CONSTRUCTED WITHIN TWENTY (20) FEET OF AN ACTIVE SEDIMENT TRAP OR BASIN.

15. SEDIMENT TRAPS AND BASINS MUST HAVE STABLE INFLOW AND OUTFLOW POINTS SO THAT WATER CAN DISCHARGE WITHOUT CAUSING EROSION.

16. SEDIMENT BASINS/TRAPS SHALL NOT BE GREATER THAN FOUR (4) FEET IN DEPTH.

17. SEDIMENT MUST BE CLEANED, AND THE TRAP/BASIN RESTORED TO ITS ORIGINAL DIMENSIONS, WHEN ACCUMULATION REACHES A HEIGHT HALF-WAY UP TO THE TOP OF THE DESIGNED HOLDING AREA.

18. SEDIMENT REMOVED FROM TRAPS AND BASINS SHALL BE PLACED AND STABILIZED IN APPROVED AREAS, BUT NOT WITHIN A FLOODPLAIN, WETLAND OR VEGETATION PRESERVATION AREA.

19. WHEN PUMPING SEDIMENT LADEN WATER, THE DISCHARGE MUST BE DIRECTED TO A SEDIMENT TRAPPING DEVICE PRIOR TO DISCHARGE TO A FUNCTIONAL STORM DRAIN SYSTEM, STABLE GROUND SURFACE, OR RELEASE FROM THE SITE.

20. SEDIMENT BASINS MUST BE REMOVED WITHIN THIRTY SIX (36) MONTHS AFTER THEIR CONSTRUCTION.

21. OHIO DAM SAFETY LAWS APPLY TO BASINS LARGER THAN FIFTEEN (15) ACRE-FEET (24,000 CY) AS MEASURED TO THE TOP OF THE HOLDING AREA.

TEMPORARY & PERMANENT STABILIZATION:

22. ALL CRITICAL SLOPES (3:1 OR STEEPER) SHALL BE STABILIZED WITH SOD OR SEED AS SOON AS POSSIBLE BUT NO LATER THAN SEVEN (7) CALENDAR DAYS AFTER ACHIEVING FINAL GRADE.

23. ALL AREAS NOT DRAINING TO A FUNCTIONING SEDIMENT BASIN MUST BE FINAL GRADED AND STABILIZED WITH SOD OR SEED WITHIN SEVEN (7) CALENDAR DAYS OF ACHIEVING FINAL GRADE.

24. ALL AREAS WITHIN FIFTY (50) FEET OF A STREAM MUST BE STABILIZED WITHIN TWO (2) CALENDAR DAYS OF ACHIEVING FINAL GRADE.

25. ALL AREAS THAT ARE TO REMAIN IDLE, INCLUDING STOCK PILES, FOR FOURTEEN (14) CALENDAR DAYS MUST BE STABILIZED WITH SEED OR SOD.

26. WHEN THE PROPERTY IS BROUGHT TO FINISHED GRADE DURING THE MONTHS OF NOVEMBER THROUGH FEBRUARY, AND PERMANENT STABILIZATION IS FOUND TO BE IMPRACTICAL, TEMPORARY SEED AND ANCHORED MULCH SHALL BE APPLIED TO ALL DISTURBED AREAS. THE FINAL PERMANENT STABILIZATION OF SUCH PROPERTY SHALL BE APPLIED BY MARCH 15 OR EARLIER IF GROUND AND WEATHER CONDITIONS ALLOW.

27. PERMANENT SWALES OR OTHER POINTS OF CONCENTRATED WATER FLOW SHALL BE STABILIZED WITH SOD OR SEED WITH AN APPROVED EROSION CONTROL MATTING, RIP-RAP, OR BY OTHER APPROVED STABILIZATION MEASURES WITHIN TWO (2) DAYS OR ACHIEVING FINAL GRADE.

28. TEMPORARY SEDIMENT CONTROL DEVICES MAY BE REMOVED THIRTY (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS.

29. STORMWATER MANAGEMENT STRUCTURES, USED TEMPORARILY FOR SEDIMENT CONTROL, SHALL BE CONVERTED TO THE PERMANENT CONFIGURATION THIRTY (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS.

30. FOR FINISHED GRADING, THE CONTRACTOR SHALL PROVIDE ADEQUATE FACILITIES TO PREVENT WATER FROM PONDING FOR MORE THAN TWENTY FOUR (24) HOURS AFTER THE END OF A RAINFALL EVENT. DRAINAGE COURSES AND SWALE FLOW AREAS MAY TAKE AS LONG AS FORTY EIGHT (48) HOURS AFTER THE END OF A RAINFALL EVENT TO DRAIN. AREAS DESIGNED TO HAVE STANDING WATER (I.E. RETENTION PONDS) DO NOT HAVE TO MEET THIS REQUIREMENT.

OTHER:

32. NO SOLID OR LIQUID WASTE, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED IN STORM WATER RUNOFF. THE CONTRACTOR MUST IMPLEMENT ALL NECESSARY CONTROL MEASURES TO PREVENT THE DISCHARGE OF POLLUTANTS TO THE DRAINAGE SYSTEM OF THE SITE OR SURFACE WATERS. UNDER NO CIRCUMSTANCE SHALL CONCRETE TRUCKS WASH OUT DIRECTLY INTO A DRAINAGE CHANNEL, STORM SEWER OR SURFACE WATER.

33. SEDIMENT MUST BE CLEANED FROM SILT FENCES AND MULCH BERMS WHEN ACCUMULATION REACHES A HEIGHT OF HALF-WAY UP TO THE TOP OF THE FENCE/BERM.

34. SEDIMENT REMOVED FROM SILT FENCES AND MULCH BERMS SHALL BE PLACED AND STABILIZED IN APPROVED AREAS, BUT NOT WITHIN A FLOODPLAIN, WETLAND OR VEGETATION PRESERVATION AREA.

35. ALL SLOPES STEEPER THAN 3:1 REQUIRED GRADE TREATMENT, EITHER STAIR-STEP GRADING, GROWING, FURROWING, OR TRACKING IF THEY ARE TO BE STABILIZED WITH VEGETATION.

36. AREAS WITH GRADES LESS STEEP THAN 3:1 SHOULD HAVE THE SOIL SURFACE LIGHTLY ROUGHENED AND LOOSE TO A DEPTH OF TWO (2) TO FOUR (4) INCHES PRIOR TO SEEDING.

37. CONSTRUCTION AND DEMOLITION DEBRIS MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL AND STATE STATUTES.

ADDITIONAL STORMWATER POLLUTION PREVENTION NOTES:

UNLESS OTHERWISE NOTED, STANDARDS AND SPECIFICATIONS ESTABLISHED IN THE LATEST EDITION OF THE OHIO DEPARTMENT OF NATURAL RESOURCES "RAINWATER AND LAND DEVELOPMENT" MANUAL, CURRENT EDITION, SHALL GOVERN THE EROSION AND SEDIMENT CONTROL INSTALLATIONS SPECIFIED ON THIS PLAN.

THE DEVELOPER AND CONTRACTOR SHALL ABIDE BY THE RULES AND REGULATIONS SET FORTH IN THE OHIO EPA PERMIT NO. OH0C00004-"AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)."

CONTRACTOR SHALL REMOVE EXISTING GROUND COVER ONLY AS NECESSARY FOR THE PROJECT PHASE CURRENTLY UNDER CONSTRUCTION.

SEDIMENT CONTROL STRUCTURES SHALL BE FUNCTIONAL THROUGHOUT THE COURSE OF EARTH DISTURBING ACTIVITY. SEDIMENT BASINS AND PERIMETER SEDIMENT BARRIERS SHALL BE IMPLEMENTED PRIOR TO GRADING AND WITHIN SEVEN DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE UP SLOPE DEVELOPMENT AREA IS REESTABLISHED. AS CONSTRUCTION PROGRESSES AND THE TOPOGRAPHY IS ALTERED, APPROPRIATE CONTROLS MUST BE CONSTRUCTED OR EXISTING CONTROLS ALTERED TO ADDRESS THE CHANGING DRAINAGE PATTERNS.

SOIL STOCKPILED MUST BE STABILIZED AND PROTECTED WITH SEDIMENT TRAPPING TO PREVENT SOIL LOSS.

SILT FENCES AND "INLET FILTERS" ARE TO BE CONTINUOUSLY MAINTAINED BY THE DEVELOPER AND/OR CONTRACTOR UNTIL ALL DANGER OF EROSION/SEDIMENTATION OCCURRING HAS BEEN ELIMINATED.

ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH STATE OF OHIO SPECIFICATION ITEM 659, AND PER TABLE LISTED ON THIS SHEET "STABILIZATION."

EXCAVATION CONTRACTOR SHALL TAKE EXTREME CARE TO PREVENT MUD AND DEBRIS FROM ENTERING EXISTING STORM SEWERS AND WATER COURSES.

THE CONTRACTOR SHALL KEEP EXISTING PAVEMENT SURROUNDING THE SITE "BROOM CLEAN" AND FREE OF SOIL OR AGGREGATE THAT MIGHT BE BROUGHT OFF-SITE.

THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE STREET/PARKING LOT CLEAN BY PREVENTING DEBRIS, MUD, DIRT, ETC. FROM BEING TRACKED ONTO THE STREET/PARKING LOT. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING DEBRIS, MUD, ETC. FROM THE STREET IMMEDIATELY WHEN IT OCCURS AND SHALL INSPECT THE STREET AT THE END OF EACH WORKING DAY.

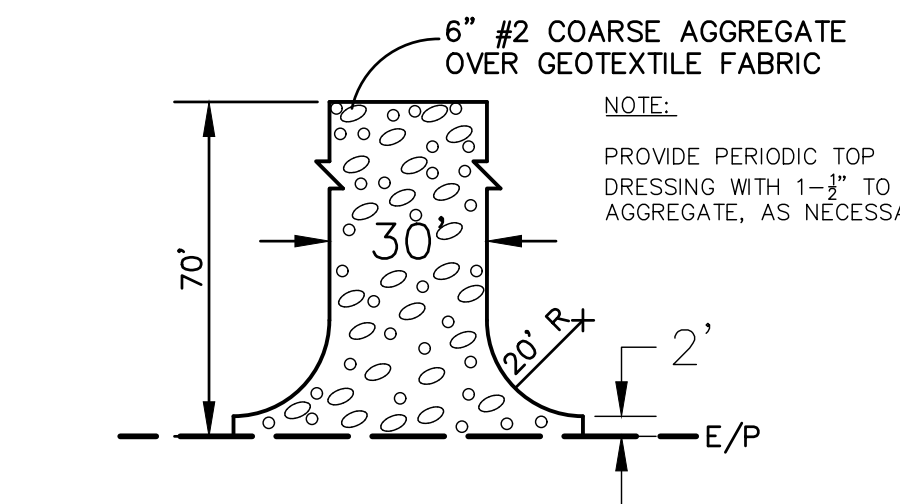
THE DEVELOPER AND/OR CONTRACTOR SHALL PERFORM REGULAR STREET SWEEPING TO MINIMIZE SEDIMENTS TO THE PROPOSED STORM SEWER SYSTEM.

UPON REQUEST OF THE OHIO EPA, OR LOCAL JURISDICTION, THE CONTRACTOR SHALL PROVIDE ALL NPDES PERMIT REPORTS AND A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN. THE CONTRACTOR SHALL ALLOW THE OHIO EPA OR LOCAL JURISDICTION TO ENTER THE SITE TO INSPECT AND MONITOR ALL EROSION CONTROL MEASURES.

DUMPSTERS AND PORT-O-LETS ARE NOT TO BE CLOSER THAN 20' FROM THE PROPERTY LINES.

SPECIAL NOTES:

1. DURING CONSTRUCTION, THE PROPERTY MUST HAVE A MINIMUM TWENTY (20) FOOT WIDE CONSTRUCTION ENTRANCE MAINTAINED OF STONE MATERIAL.
2. AT THE CONSTRUCTION ENTRANCE TO THE PROPERTY, THERE MUST BE A WATER SOURCE AND TIRES OF CONSTRUCTION VEHICLES MUST BE RINSED TO MINIMIZE ANY DIRT WHICH WOULD MIGRATE FROM THE PROPERTY.
3. DURING CONSTRUCTION, DEBRIS MUST BE REMOVED AS APPROPRIATE, BUT AT LEAST WEEKLY.
4. DURING CONSTRUCTION, EROSION CONTROL MUST BE MAINTAINED ON THE PROPERTY INCLUDING PERIMETER CONTROL, E.G. STRAW BALE BARRIERS, EROSION FENCING, ETC.



STABILIZED CONSTRUCTION ENTRANCE

TEMPORARY AND PERMANENT SEEDING:

1.1 SEEDED PREPARATION

A. LIME (IN LIEU OF A SOIL TEST RECOMMENDATION) ON ACID SOIL (pH=5.5 OR LESS) AND SUBSOIL AT A RATE OF 100 POUNDS PER 1000 SF, OR TWO (2) TONS PER ACRE OF AGRICULTURAL GRADE LIMESTONE.

B. FERTILIZER (IN LIEU OF A SOILS TEST RECOMMENDATION) SHALL BE APPLIED AT A RATE OF 12-15 POUNDS (25 POUNDS FOR PERMANENT SEEDING) PER 1000 SF OF 10-10-10 OR 12-12-12 ANALYSIS OR EQUIVALENT.

1.2 SEEDING

1. TEMPORARY SEEDING MIXTURE

SEEDING PERIOD	TYPE	RATE (1000 SF)
SPRING AND SUMMER	1. OATS	3 LBS
	2. PEREN. RYEGRASS	1 LBS
	3. TALL FESCUE	1 LBS
FALL	1. PEREN. RYEGRASS	1 LBS
	2. RYE	3 LBS
	3. WHEAT	3 LBS
	4. TALL FESCUE	1 LBS

2. PERMANENT SEEDING MIXTURE

SEEDING PERIOD	TYPE	RATE (1000 SF)
SPRING, SUMMER, AND FALL	1. CREEPING RED FESCUE 0.5 LBS	0.25 LBS
	2. DOMESTIC RYEGRASS	0.25 LBS
	3. KENTUCKY BLUEGRASS	0.25 LBS
2-1 SEEDING FOR STEEP BANKS OR CUTS	1. TALL FESCUE	1 LBS
	2. CROWNVECH	0.25 LBS
	3. DWARF FESCUE	1 LBS

SPRING, SUMMER, AND FALL	1. TALL FESCUE	1 LBS
	2. CROWNVECH	0.25 LBS
	3. DWARF FESCUE	1 LBS

2-2 SEEDING FOR WATERWAYS AND ROAD DITCHES

SPRING, SUMMER AND FALL	1. TALL FESCUE	1 LBS
	2. TALL FESCUE	1 LBS

TEMPORARY AND PERMANENT SEEDING CONT:

C. WHEN FEASIBLE, EXCEPT WHERE A CULTIPACKER TYPE SEEDER IS USED, THE SEEDED BED BE FIRMD FOLLOWING SEEDING OPERATIONS WITH A CULTIPACKER, ROLLER, OR LIGHT DRAG. ON SLOPING LAND SEEDING OPERATIONS SHOULD BE ON THE CONTOUR WHEREVER POSSIBLE.

D. OTHER SEEDING SPECIES MAY BE SUBSTITUTED FOR THESE MIXTURES.

E. THESE SEEDING RATES NEED TO BE INCREASED TWO TO THREE TIMES IF THEY ARE TO BE USED AS A LAWN.

2. DORMANT SEEDING

A. TEMPORARY SEEDING-AFTER NOVEMBER 1, USE MULCH ONLY.

B. PERMANENT SEEDING- SEEDINGS SHOULD NOT BE PLANTED FROM OCTOBER 1 THROUGH NOVEMBER 20. THE FOLLOWING METHODS MAY BE USED TO MAKE A "DORMANT SEEDING":

1. FROM OCT. 1 THROUGH NOV. 20, PREPARE THE SEEDED, ADD THE REQUIRED AMOUNTS OF LIME AND FERTILIZER, THEN MULCH AND ANCHOR. AFTER NOV. 20, AND BEFORE MARCH 15, BROADCAST THE SELECTED SEED MIXTURE. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.

2. FROM NOV. 20 THROUGH MARCH 15, WHEN SOIL CONDITIONS PERMIT, PREPARE SEEDED, LIME AND FERTILIZE, APPLY THE SELECTED SEED MIXTURE, AND MULCH AND ANCHOR. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.

3. MULCHING

A. MULCH SHALL CONSIST OF SMALL GRAIN STRAW (PREFERABLY WHEAT OR RYE) AND SHALL BE APPLIED AT THE RATE OF TWO TONS PER ACRE OR 100 POUNDS PER 1000 SF.

B. SPREAD THE MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED.

C. MULCH ANCHORING METHODS:
1. MECHANICAL--USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH INTO THE SOIL.
2. ASPHALT EMULSION--APPLY AT THE RATE OF 160 GALLONS PER ACRE INTO THE MULCH AS IT IS BEING APPLIED.
3. MULCH NETTING--USE ACCORDING TO THE MANUF. RECOMMENDATIONS.

4. IRRIGATION

SUPPLY NEW SEEDLINGS WITH ADEQUATE WATER FOR PLANT GROWTH UNTIL THEY ARE FIRMLY ESTABLISHED.

STABILIZATION:

DISTURBED AREAS MUST BE STABILIZED AS FOLLOWS:

PERMANENT STABILIZATION

Area requiring permanent stabilization	Time frame to apply erosion controls
Any area that will be dormant for one year or more	Within seven days of the most recent disturbance
Any area within 50 feet of surface water of the state and at final grade	Within two days of reaching final grade
All other areas at final grade	Within seven days of reaching final grade within that area

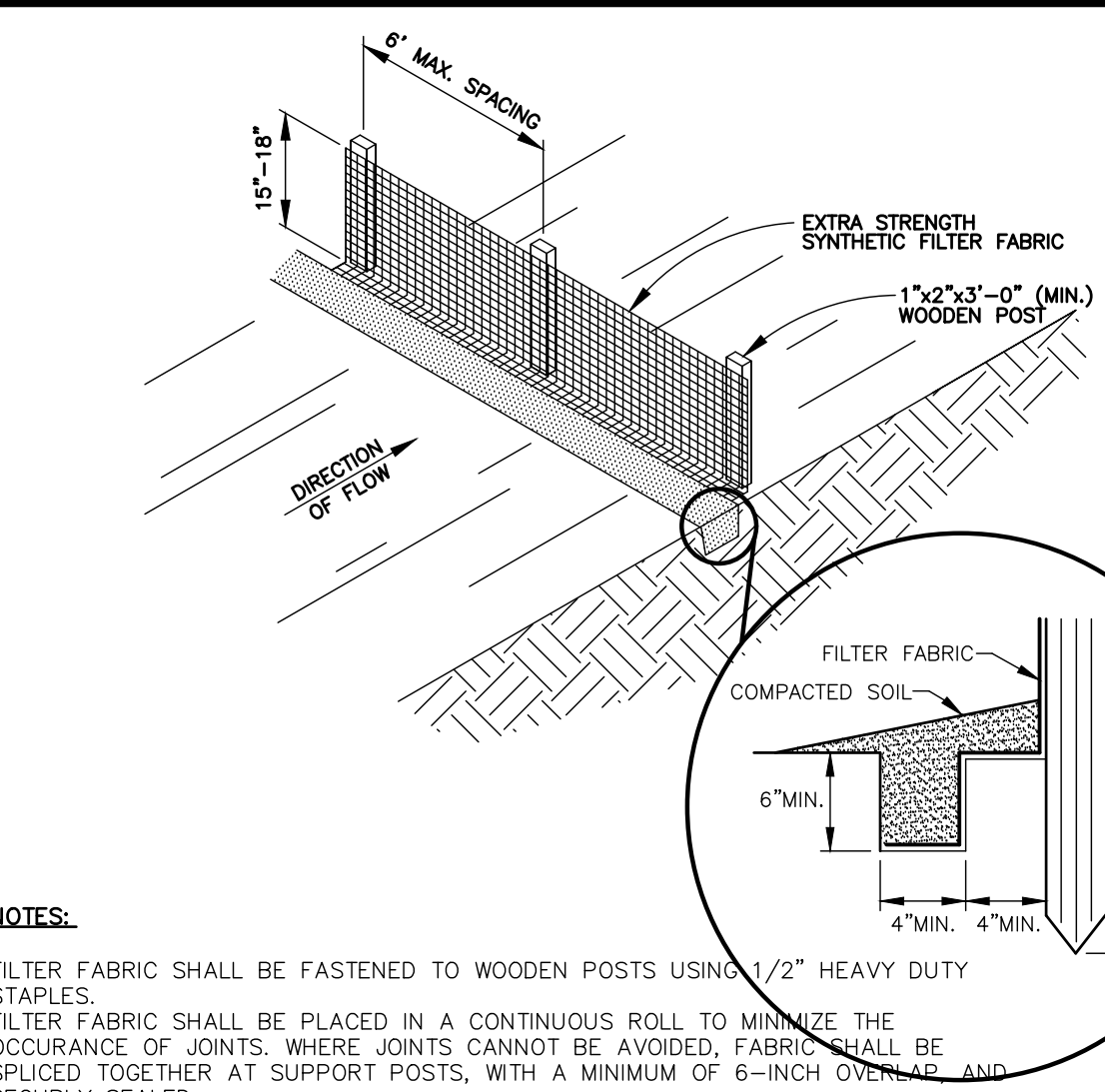
TEMPORARY STABILIZATION

Area requiring temporary stabilization	Time frame to apply erosion controls
Any disturbed areas within 50 feet of surface water of the state and not at final grade	Within two days of the most recent disturbance if the area will be dormant for more than 14 days
For all construction activities, any disturbed areas that will be dormant for more than 14 days but less than one year, and not within 50 feet of surface water of the state	Within seven days of the most recent disturbance within the area
Disturbed areas that will be idle over winter	Prior to the onset of winter weather

CONSTRUCTION SEQUENCE:

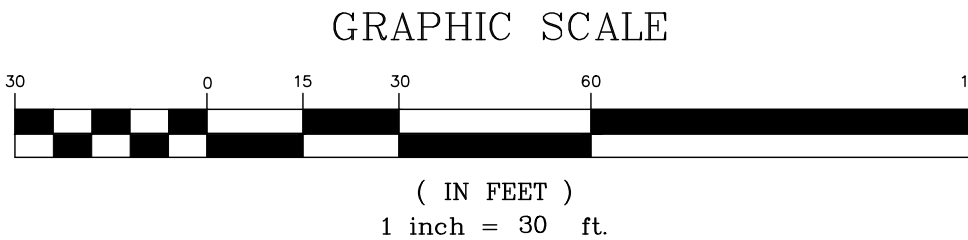
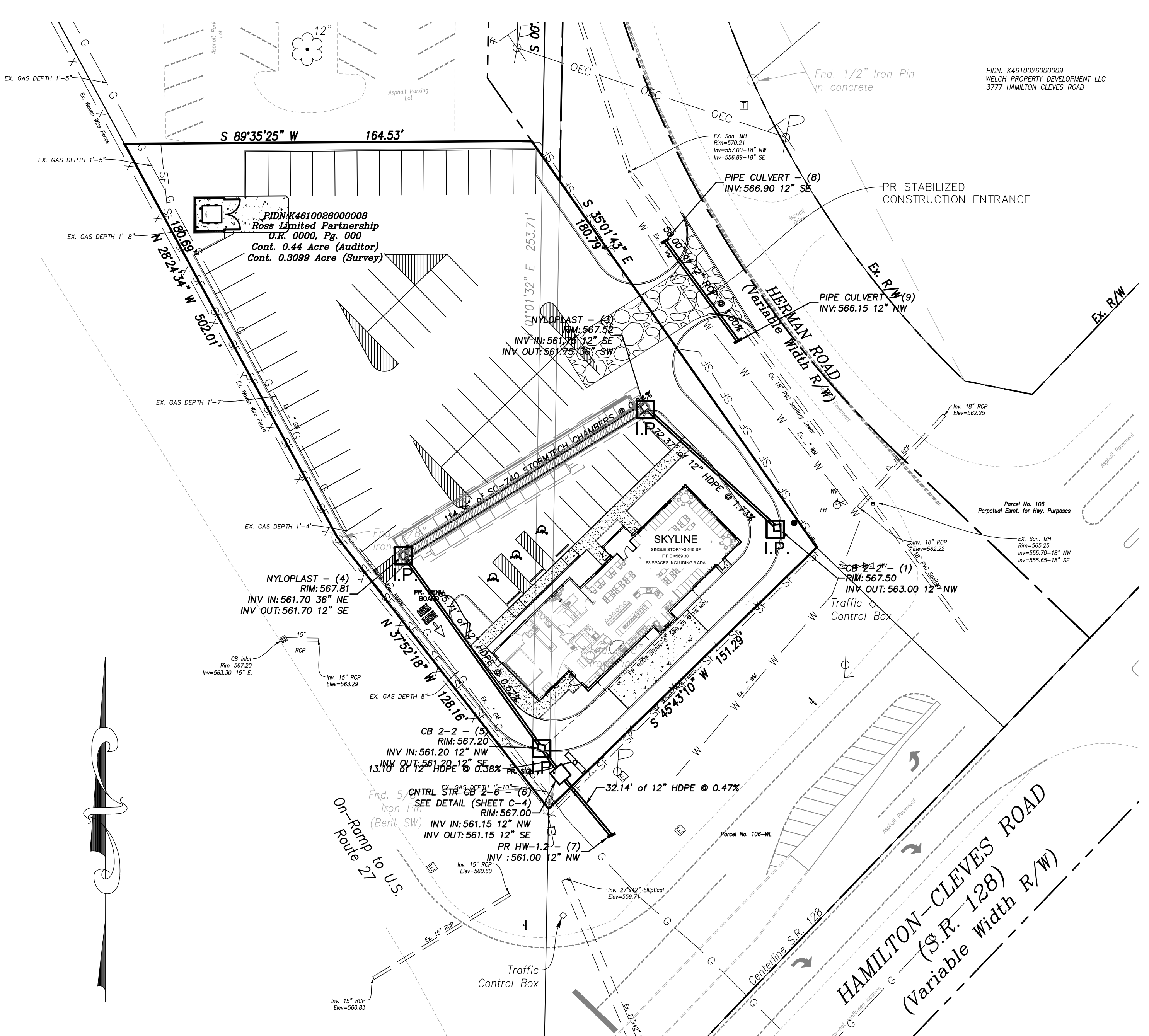
THE CONSTRUCTION SEQUENCING FOR SITE WORK SHOULD BE SIMILAR IN NATURE TO THE FOLLOWING:

1. CLEARING AND GRUBBING FOR THOSE AREAS NECESSARY FOR THE INSTALLATION OF EROSION AND SEDIMENT PERIMETER CONTROL MEASURES.
2. INSTALL EROSION AND SEDIMENT CONTROL MEASURES.
3. GRADING AND STRIPPING OF THE REMAINING AREAS OF THE DEVELOPMENT SITE OR PROJECT AREA.
4. INSTALL STORMWATER MANAGEMENT SYSTEMS. INLET FILTERS SHALL BE INSTALLED CONCURRENTLY WITH THE CONSTRUCTION OF THE STRUCTURE AND SHALL REMAIN IN PLACE UNTIL CONSTRUCTION ACTIVITIES ARE COMPLETE, AND UPSTREAM AREAS HAVE BEEN STABILIZED.
5. TEMPORARY VEGETATIVE STABILIZATION OR EROSION AND SEDIMENT CONTROL MEASURES.
6. GRADING OF ROADS, STREETS, OR PARKING AREAS, ETC.
7. INSTALLATION OF ALL UTILITIES.
8. SITE CONSTRUCTION.
9. FINAL GRADING, STABILIZATION, AND LANDSCAPING.
10. REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES.

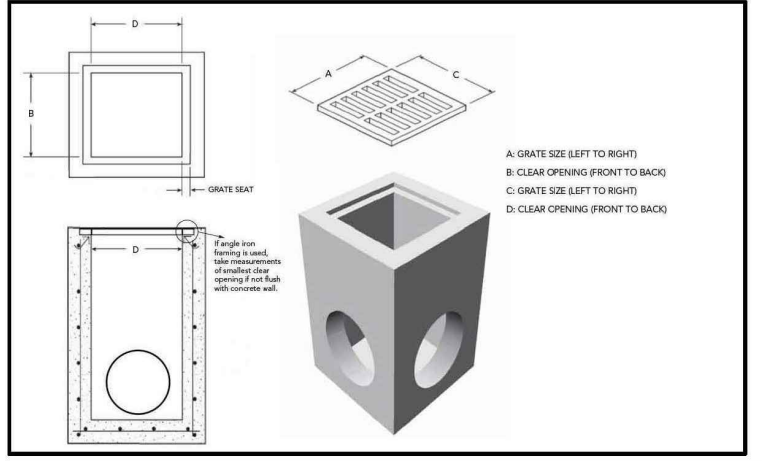


SILT FENCE (SF) DETAIL
NO SCALE

1. FILTER FABRIC SHALL BE FASTENED TO WOODEN POSTS USING 1/2" HEAVY DUTY STAPLES.
2. FILTER FABRIC SHALL BE PLACED IN A CONTINUOUS ROLL TO MINIMIZE THE OCCURANCE OF JOINTS. WHERE JOINTS CANNOT BE AVOIDED, FABRIC SHALL BE SPLICED TOGETHER AT SUPPORT POSTS, WITH A MINIMUM OF 6-INCH OVERLAP AND SECURELY SEALED.



FLEXSTORM P/Ns 62MHDFX & 62MHDFXP
HD4 INLET TYPE: SQUARE/RECT PRECAST OPENING WITH 4 SEAT GRATE SUPPORT



Pipe Frames w/ HD P/N Bag		Pipe Inlet Dimensions		Pipe Frame Rating (Flow at 15% Depth)		Pipe Frame Rating (Flow at 15% Depth)		Pipe Frame w/ HD P/N Bag	
ADD P/N	Performance New Code	Frame Size (A x B)	Flow Opening (A x B)	BF	DI	AI	GI	ADD P/N	Performance New Code
62MHDFX	P-424-200-100-100-100	24x24	18x18	1.5	1.5	1.5	1.5	62MHDFXP	P-424-200-100-100-100
62MHDFX	P-424-200-120-120-120	30x30	24x24	2.0	2.0	2.0	2.0	62MHDFXP	P-424-200-120-120-120
62MHDFX	P-424-200-144-144-144	36x36	30x30	2.5	2.5	2.5	2.5	62MHDFXP	P-424-200-144-144-144
62MHDFX	P-424-200-168-168-168	42x42	36x36	3.0	3.0	3.0	3.0	62MHDFXP	P-424-200-168-168-168
62MHDFX	P-424-200-192-192-192	48x48	42x42	3.5	3.5	3.5	3.5	62MHDFXP	P-424-200-192-192-192
62MHDFX	P-424-200-216-216-216	54x54	48x48	4.0	4.0	4.0	4.0	62MHDFXP	P-424-200-216-216-216
62MHDFX	P-424-200-240-240-240	60x60	54x54	4.5	4.5	4.5	4.5	62MHDFXP	P-424-200-240-240-240
62MHDFX	P-424-200-264-264-264	66x66	60x60	5.0	5.0	5.0	5.0	62MHDFXP	P-424-200-264-264-264
62MHDFX	P-424-200-288-288-288	72x72	66x66	5.5	5.5	5.5	5.5	62MHDFXP	P-424-200-288-288-288
62MHDFX	P-424-200-312-312-312	78x78	72x72	6.0	6.0	6.0	6.0	62MHDFXP	P-424-200-312-312-312
62MHDFX	P-424-200-336-336-336	84x84	78x78	6.5	6.5	6.5	6.5	62MHDFXP	P-424-200-336-336-336
62MHDFX	P-424-200-360-360-360	90x90	84x84	7.0	7.0	7.0	7.0	62MHDFXP	P-424-200-360-360-360
62MHDFX	P-424-200-384-384-384	96x96	90x90	7.5	7.5	7.5	7.5	62MHDFXP	P-424-200-384-384-384
62MHDFX	P-424-200-408-408-408	102x102	96x96	8.0	8.0	8.0	8.0	62MHDFXP	P-424-200-408-408-408
62MHDFX	P-424-200-432-432-432	108x108	102x102	8.5	8.5	8.5	8.5	62MHDFXP	P-424-200-432-432-432
62MHDFX	P-424-200-456-456-456	114x114	108x108	9.0	9.0	9.0	9.0	62MHDFXP	P-424-200-456-456-456
62MHDFX	P-424-200-480-480-480	120x120	114x114	9.5	9.5	9.5	9.5	62MHDFXP	P-424-200-480-480-480
62MHDFX	P-424-200-504-504-504	126x126	120x120	10.0	10.0	10.0	10.0	62MHDFXP	P-424-200-504-504-504
62MHDFX	P-424-200-528-528-528	132x132	126x126	10.5	10.5	10.5	10.5	62MHDFXP	P-424-200-528-528-528
62MHDFX	P-424-200-552-552-552	138x138	132x132	11.0	11.0	11.0	11.0	62MHDFXP	P-424-200-552-552-552
62MHDFX	P-424-200-576-576-576	144x144	138x138	11.5	11.5	11.5	11.5	62MHDFXP	P-424-200-576-576-576
62MHDFX	P-424-200-600-600-600	150x150	144x144	12.0	12.0	12.0	12.0	62MHDFXP	P-424-200-600-600-600