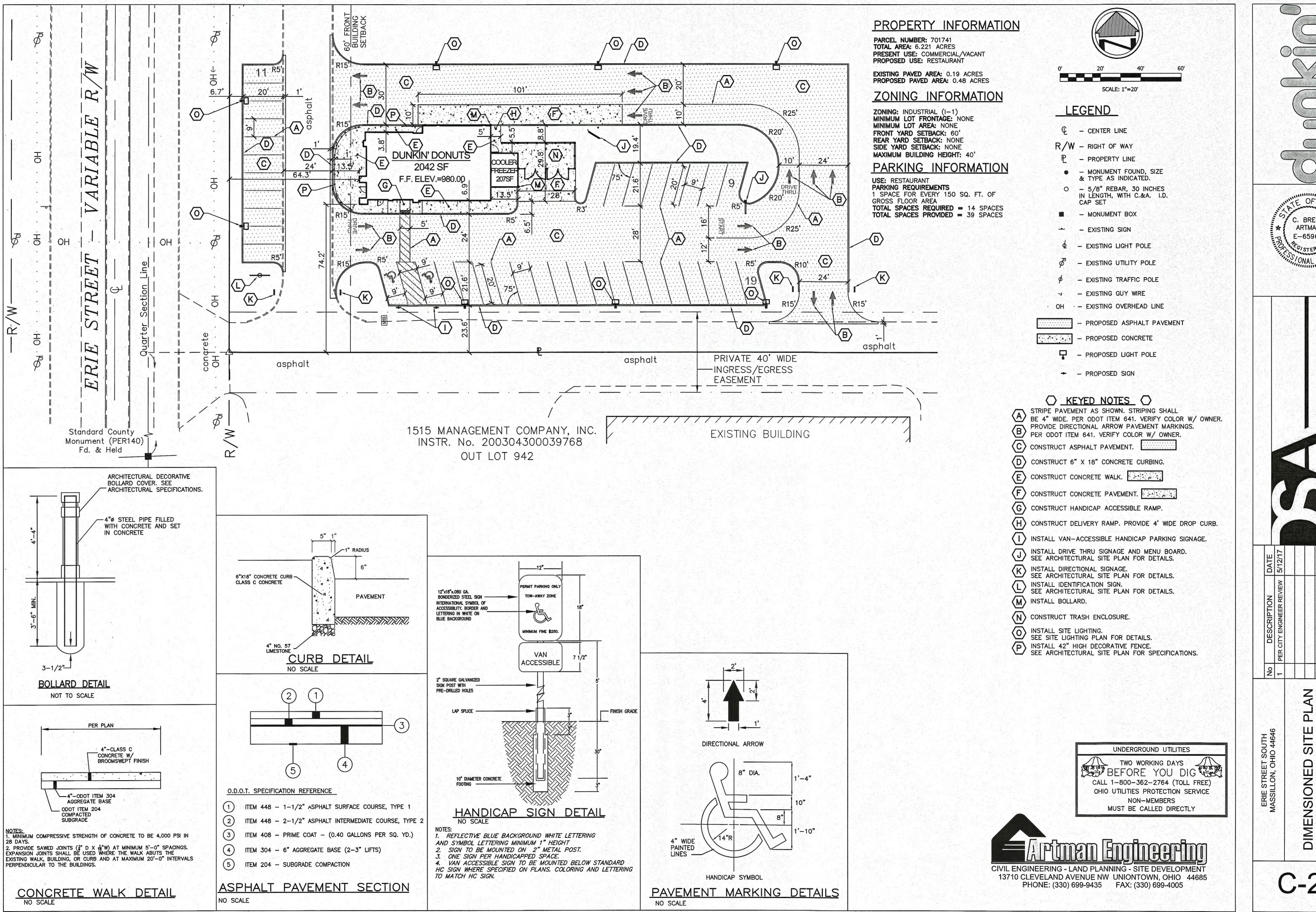
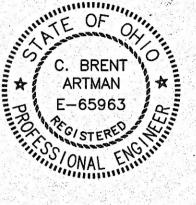


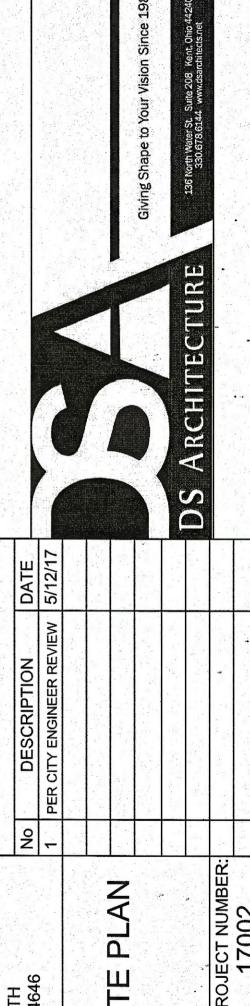


MASSILLON, OHIO 44646		OVERALL SITE PLAN					All MADED. 256264 PROJECT NUMBER:	UNDIMIDER. 330331 17002	
DESCRIPTION	PER CITY ENGINEER REVIEW 5/12/1						•		•
ומור ד	5/12/17								
A series							US ARCHITECTURE		
					Glving Shape to Your Vision Since 1983		136 North Water St. Surfe 208 Kent, Unio 44240, 330,678,6144 www.dsarchitects.net		

C-1.0

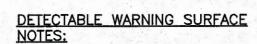






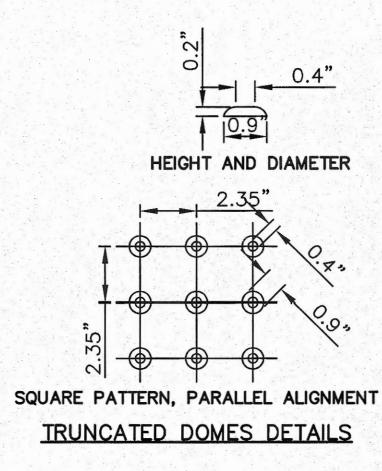
C-2.0

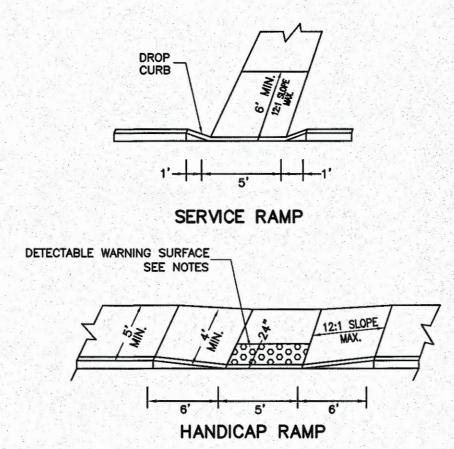
356351



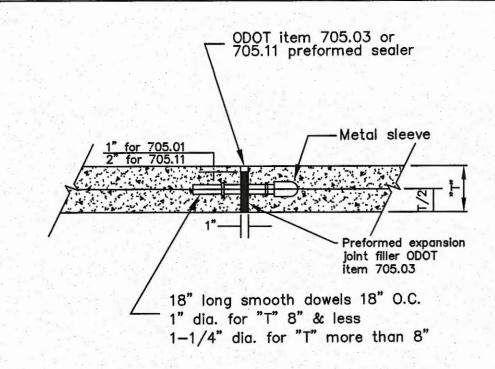
1. SURFACE SHALL CONSIST OF TRUNCATED DOMES ALIGNED ON A SQUARE GRID PATTERN WITH THE DIRECTION OF TRAFFIC. 2. SEE DETAIL FOR TRUNCATED DOME DIMENSIONS AND SPACINGS. 3. WARNING SURFACE SHALL CONTRAST VISUALLY WITH THE ADJOINING WALK SURFACES. EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALK SURFACE. CONTRAST SHALL BE MINIMUM OF 70%. 4. DETECTABLE WARNING SURFACE SHALL BE DURABLE, UV PROTECTED, POLYURETHANE MATS OR TILES. 5. INSTALL PER MANUFACTURER'S

RECOMMENDATIONS.



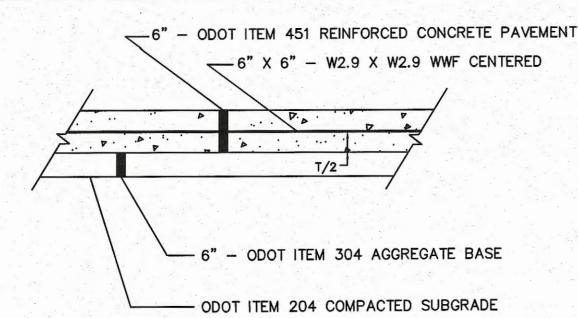


HANDICAP RAMP DETAIL NO SCALE



NOTE: Expansion joints shall be used where the pavement abuts the proposed walk, building, curb and at maximum 30'-0" intervals perpendicular to the buildings.

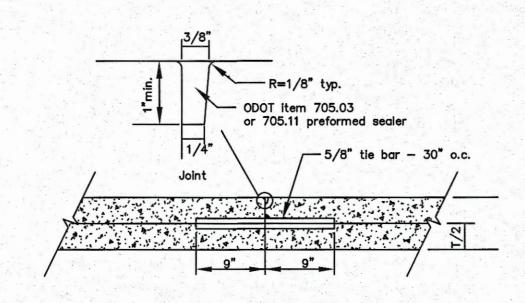
EXPANSION JOINT DETAIL NOT TO SCALE



NOTES:

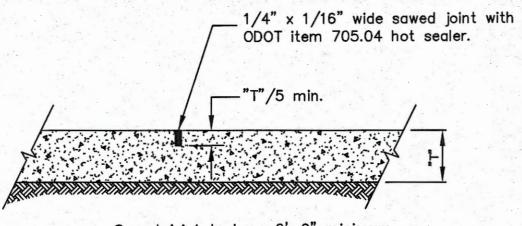
1. CONSTRUCT CONTROL, EXPANSION AND CONSTRUCTION JOINTS PERPENDICULAR AND PARELLEL TO THE BUILDINGS.
2. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE TO BE 4,000 PSI IN 28

CONCRETE PAVEMENT SECTION NOT TO SCALE



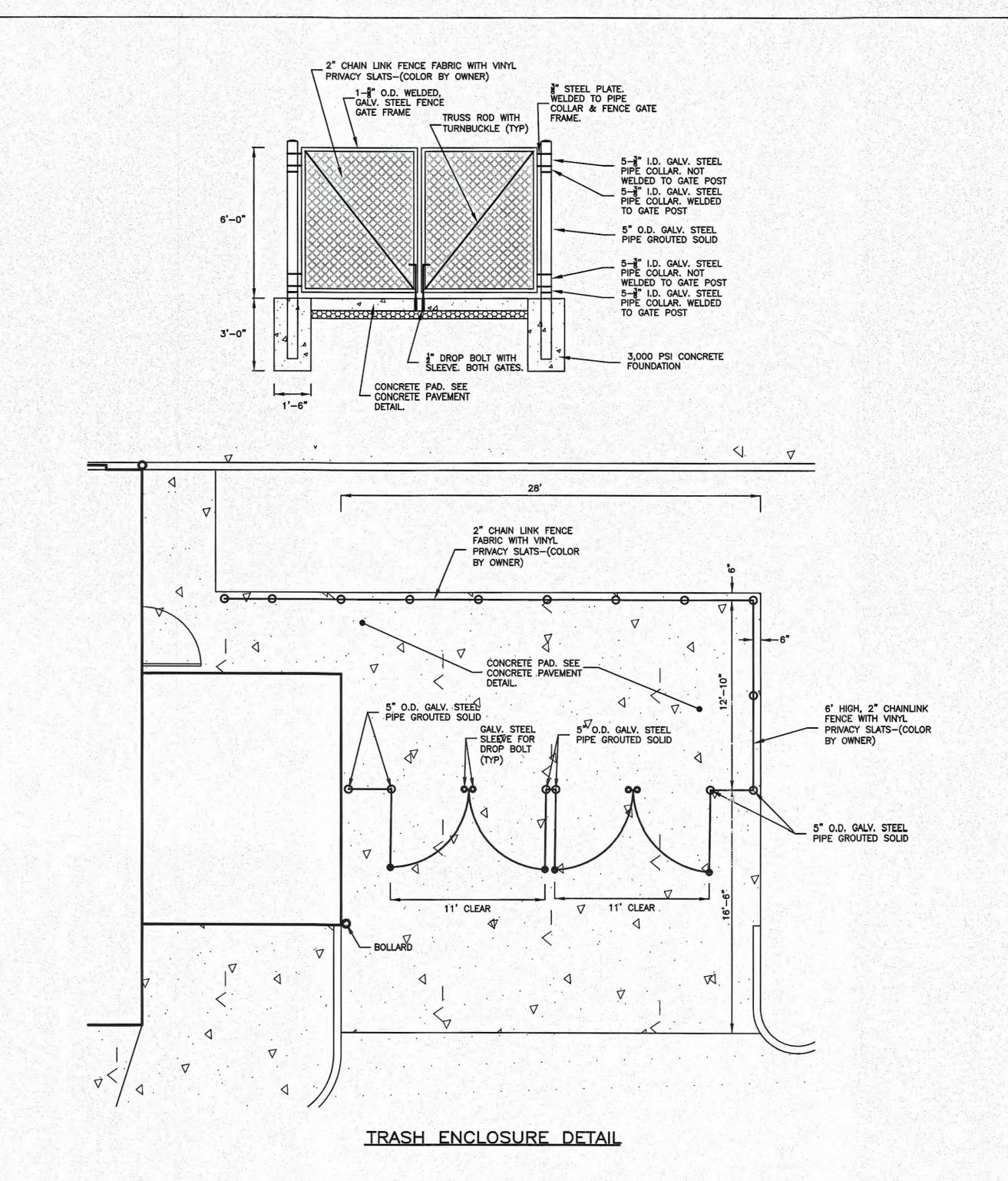
NOTE: See ODOT standard drawing BP-3 for alternate butt joint details

LONGITUDINAL BUTT JOINT DETAIL NOT TO SCALE

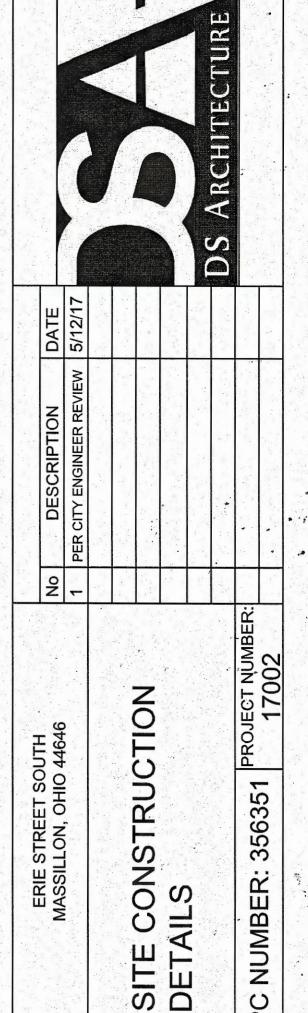


Sawed joint to have 6'-0" minimum and 15'-0" maximum spacing.

CONTRACTION JOINT DETAIL







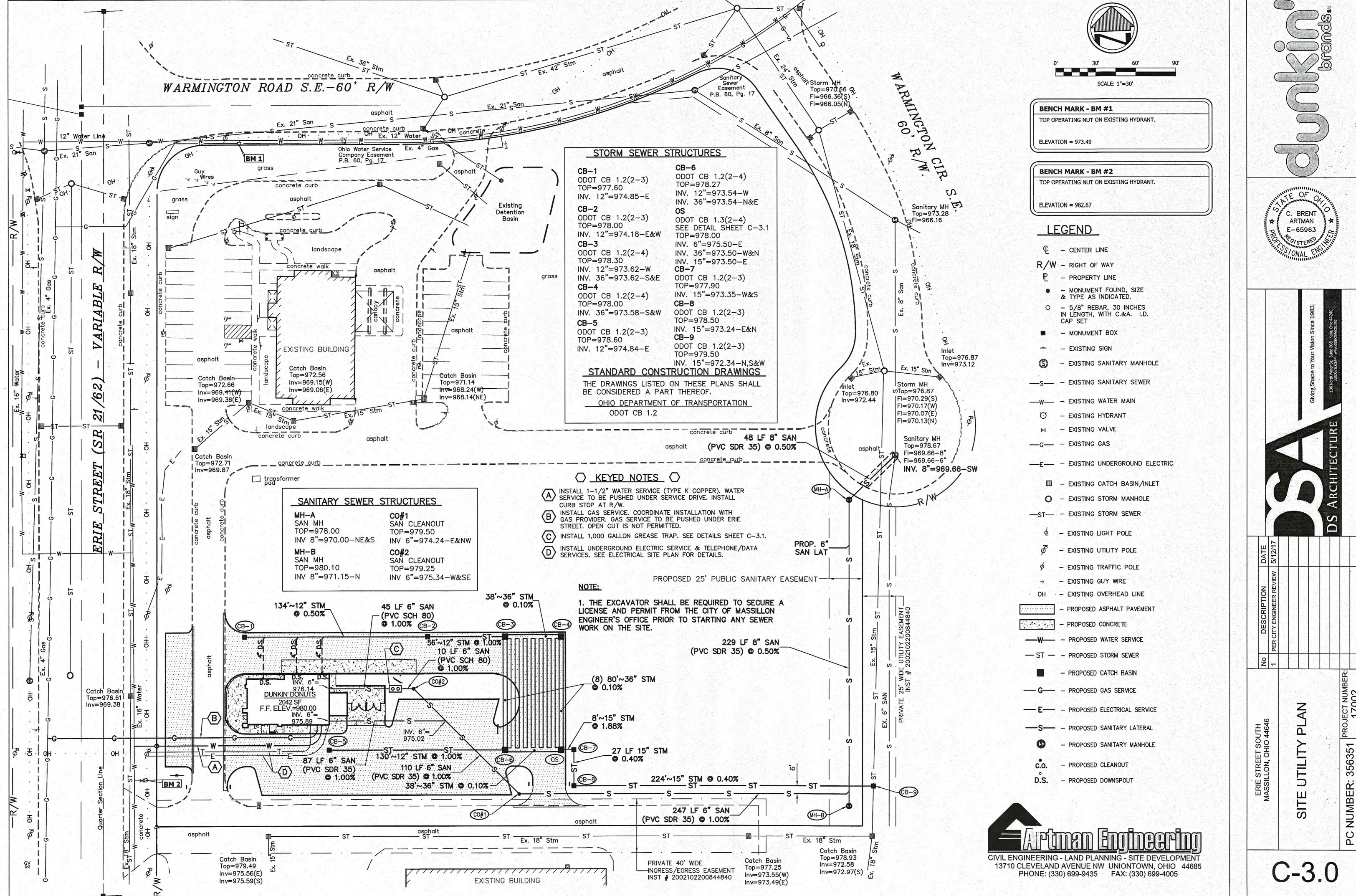
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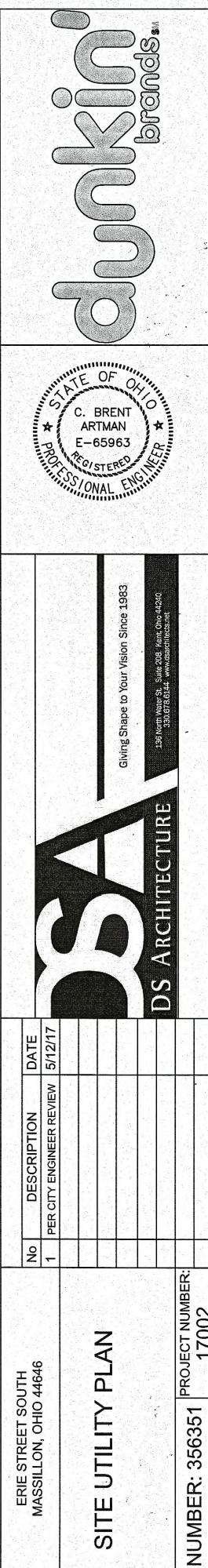
C-2.1

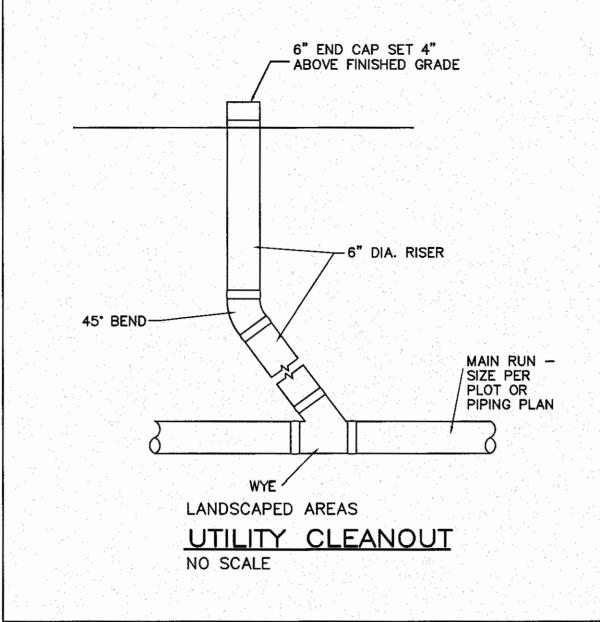
C. BREN

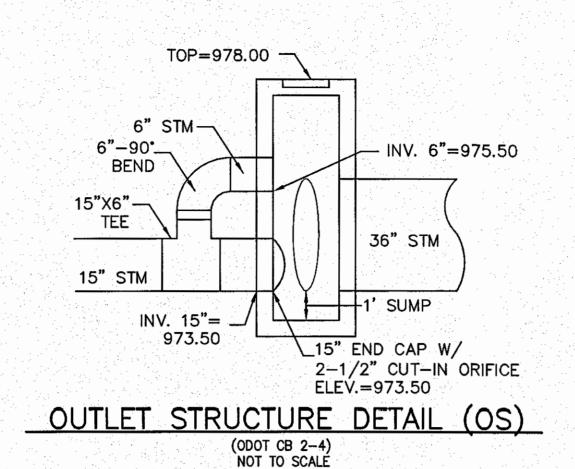
ARTMAN

E-65963









<u>Trench Excavation</u>. The trench excavation for both sewer and water pipe bedding shall be true to line and grade, as shown on the plans. The banks of the trench shall be kept as nearly vertical as possible and shall be properly drained. The bottom of the trenches shall not be more than twenty—four inches wider than the outside diameter of the pipe, with a minimum clearance between the bottom of the pipe and the trench bottom of one—fourth of the pipe diameter (but not less than six inches) in order that the pipe may be bedded in No. 8 or 304 stone. Shale, ledge rock, boulders and large stones shall be removed from the trench to give a minimum clearance from pipe or fittings of six inches.

<u>Unstable Ground</u>. Wherever wet, unstable or other undesirable soil is encountered which does not provide proper bearing for pipe, such material shall be excavated to good ground and the excavation refilled with suitable material to the required subgrade, compacting the fill in six—inch layers. If it would be more economical and desirable, soft ground may be crossed by supporting the pipe on concrete cradies, poured to cover the lower quadrant of the pipe. In no case shall any pipe or appurtenances be laid in or on topsoil.

Sheeting. Shoring and Bracing. All excavation shall be adequately protected from caving. If such caving occurs and disturbs the bedding, the grade or the alignment of the piping, the work shall be removed, suitable sheeting, shoring and bracing provided, and the work reinstalled. The sheeting and bracing, in general, shall be removed as backfilling progresses and in such a manner as to avoid caving of the trench. Voids left by the withdrawal of sheeting shall be carefully filled and tamped.

Backfill for Water Mains. After the piping has been laid to line and grade, trenches shall be backfilled with No. 8 or 304 limestone, carefully deposited under and on both sides of the pipe, thoroughly and carefully rammed by hand tamping methods until such fill has been brought to the center line of pipe. Then, fine, loose earth shall be placed and thoroughly and carefully rammed by hand tamping methods until such fill has been brought to six inches above the pipe. This portion of the backfill shall be carefully placed and thoroughly compacted until a firm and continuous support on the bottom and sides is secured.

Where the trench is excavated through cinder fill or other material which, in the opinion of the inspector, is not suitable for backfill, suitable

where the trench is excavated through cinder fill or other material which, in the opinion of the inspector, is not suitable for backfill, suitable material for backfilling shall be hauled to the site. The remainder of the trench may then be backfilled by hand or mechanical equipment.

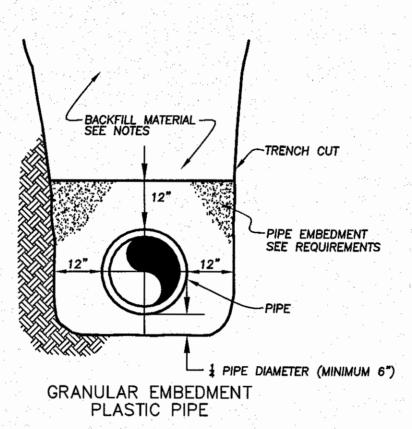
Water settling may be permitted if it is possible to do so without floating the pipe.

Backfill for Sanitary Sewers, After sewer piping has been approved for line and grade, trenches shall be backfilled with No. 57 crushed stone per ASTM D-2321, carefully deposited under and around the pipe, thoroughly and carefully rammed by hand tamping methods until enough limestone has been placed to provide a cover of at least six inches above the top of the pipe. This backfill shall provide a firm and continuous support on the bottom and sides of the pipe. No slag is permitted.

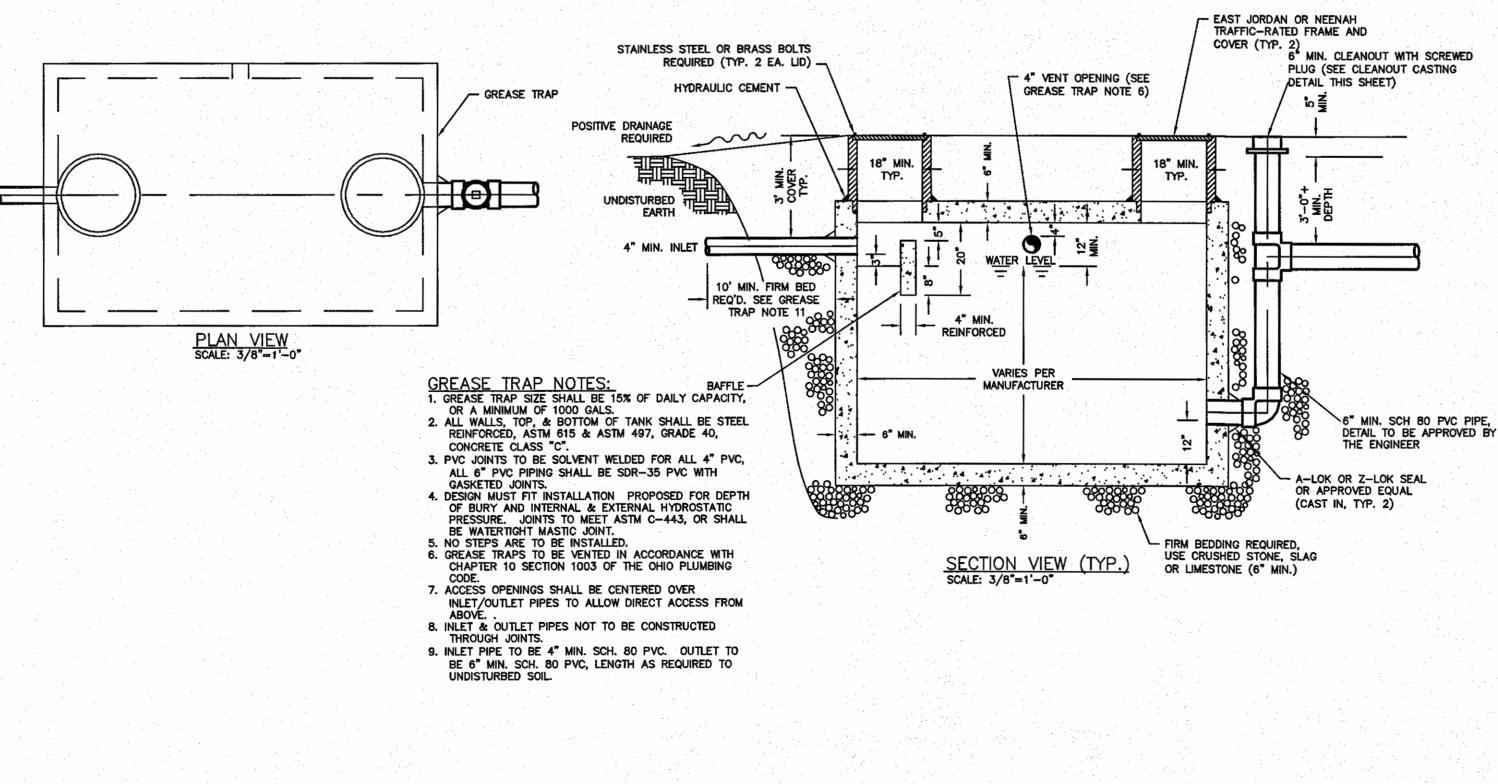
The remainder of the backfill shall consist of material previously excavated and may be placed by hand or mechanical equipment. Water settling will be permitted, providing floating of the pipe does not occur.

<u>Backfill for Storm Sewers</u>. After sewer piping has been approved for line and grade, trenches shall be backfilled with No. 8 or 304 limestone or slag, carefully deposited under and around the pipe, thoroughly and carefully rammed by hand tamping methods until enough limestone or slag fill has been placed to extend up around the pipe a distance from the bottom of the pipe as shown.

Backfill in Paved Areas. Wherever trenches occur in existing roadways and paved areas, the backfill shall consist of No. 8 or 304 stone. It shall be thoroughly compacted in six—inch layers, or puddled with hose and long nozzles, after the backfill is in place. When the area is to be paved with asphalt, the top eight inches of the backfill shall consist of crushed slag or limestone to match the existing road base and shall then be paved to match existing road or paved area. For all concrete pavement, the concrete must project at least one foot beyond the trench sides.



TRENCH DETAIL



1,000 GALLON GREASE INTERCEPTOR DETAIL



1. THE EXISTING UNDERGROUND UTILITIES AS SHOWN ARE OBTAINED FROM A COMBINATION OF FIELD LOCATION AND RECORD INFORMATION OBTAINED FROM THE RESPECTIVE UTILITY COMPANIES, WHERE PROVIDED. THESE UTILITIES, THEIR LOCATION AND THEIR ACTIVE OR INACTIVE STATUS, SHOULD BE VERIFIED BY CONTACTING THE OHIO UTILITY PROTECTION SERVICE (O.U.P.S.), PRIOR TO CONSTRUCTION. LOCATION, SIZE, DEPTH AND STATUS OF USE ARE SHOWN AS AS ACCURATE AS POSSIBLE WITH THE AVAILABLE EXISTING DATA AS OF THE DATE OF THE SURVEY.

2. ELECTRIC, GAS, CATV AND TELEPHONE SERVICE LOCATIONS AND REQUIREMENTS ARE TO

2. ELECTRIC, GAS, CATV AND TELEPHONE SERVICE LOCATIONS AND REQUIREMENTS ARE TO BE COORDINATED WITH THE RESPECTIVE UTILITY COMPANIES BY THE CONTRACTOR.

3. VERIFY DOWNSPOUT LOCATIONS AND BUILDING DIMENSIONS WITH THE ARCHITECTURAL PLANS. ALL DOWNSPOUTS SHALL DISCHARGE TO THE STORM SEWER, AS SHOWN ON THE

PLANS.
4. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING WITHIN THE PUBLIC RIGHT OF WAY. CONTACT RESPECTIVE UTILITY COMPANIES PRIOR TO CONSTRUCTION TO DETERMINE EXACT LOCATION & DEPTH OF UTILITIES.

5. ALL UTILITIES WITHIN RIGHT OF WAY SHALL BE EXPOSED AND FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
6. ALL STORM SEWER SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) IN ACCORDANCE WITH

ODOT 707.33.
7. ALL SANITARY SEWER MATERIALS, INSTALLATION AND TESTING SHALL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF CITY OF MASSILLON.
8. ALL SANITARY SEWER SHALL BE POLYVINYLCHLORIDE (PVC) SDR—35 IN ACCORDANCE

WITH ASTM D3034. JOINTS SHALL CONFORM TO ASTM D3212.

9. ALL WATER SERVICE MATERIALS, INSTALLATION AND TESTING SHALL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF AQUA OHIO AND THE OEPA.

10. THE WATER SERVICE SHALL BE TYPE "K" COPPER, OR APPROVED EQUAL.

11. MINIMUM CLEARANCE BETWEEN SANITARY SEWER AND WATER LINES SHALL BE 10' HORIZONTAL OR 1'-6" VERTICAL OUTSIDE OF EACH PIPE.

HORIZONTAL OR 1'-6" VERTICAL OUTSIDE OF EACH PIPE.

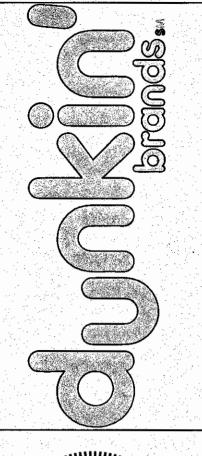
12. MINIMUM CLEARANCE BETWEEN STORM SEWER AND WATER LINES SHALL BE 10' HORIZONTAL OR 1'-6" VERTICAL OUTSIDE OF EACH PIPE.

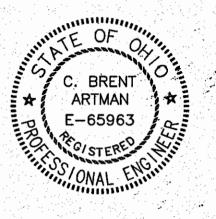
NOTES FOR WORK IN PUBLIC R/W:

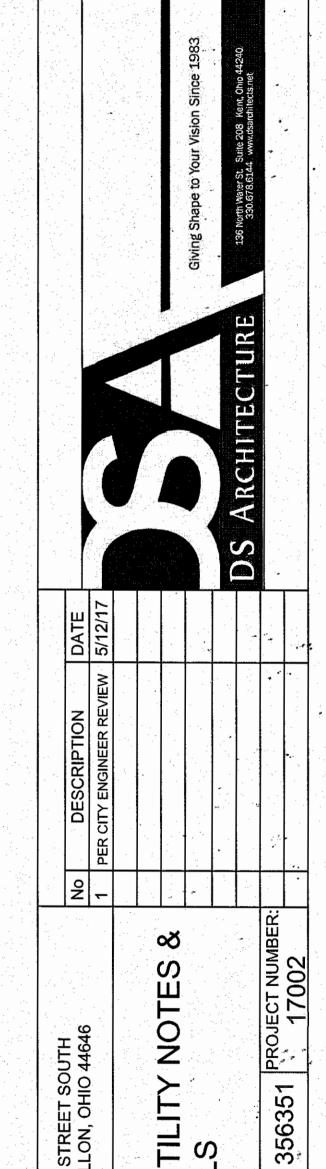
1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD).

2. ALL TRAFFIC LANES ON THE PUBLIC STREET(S) SHALL BE OPEN TO TRAFFIC AT ALL TIMES. EXCEPTION: DURING DAY—TIME WORKING HOURS (9 AM TO 4 PM) ONE—LANE, TWO—WAY TRAFFIC MAY BE MAINTAINED WITH THE USE OF FLAGGERS PER THE OMUTCD (FIGURE C—18). STREETS WITH MORE THAN 2 LANES SHALL HAVE A SPECIAL MOT PLAN APPROVED PRIOR TO CONSTRUCTION.

3. A PRE—CONSTRUCTION VIDEO SHALL BE PERFORMED BY THE CONTRACTOR TO SHOW THE CONDITIONS OF THE STREET, DRIVEWAYS, SIDEWALKS, LAWNS, AND OTHER AREAS WHICH MAY BE IMPACTED BY THE PROPOSED CONSTRUCTION OPERATIONS. THE CONTRACTOR IS URGED TO TAKE A VERY DETAILED VIDEO ACCOUNT OF THE AREA TO AVOID FUTURE DISPUTES AS TO WHETHER OR NOT DAMAGE WAS CAUSED BY THIS PROJECT OR HAD EXISTED PRIOR TO THIS PROJECT.



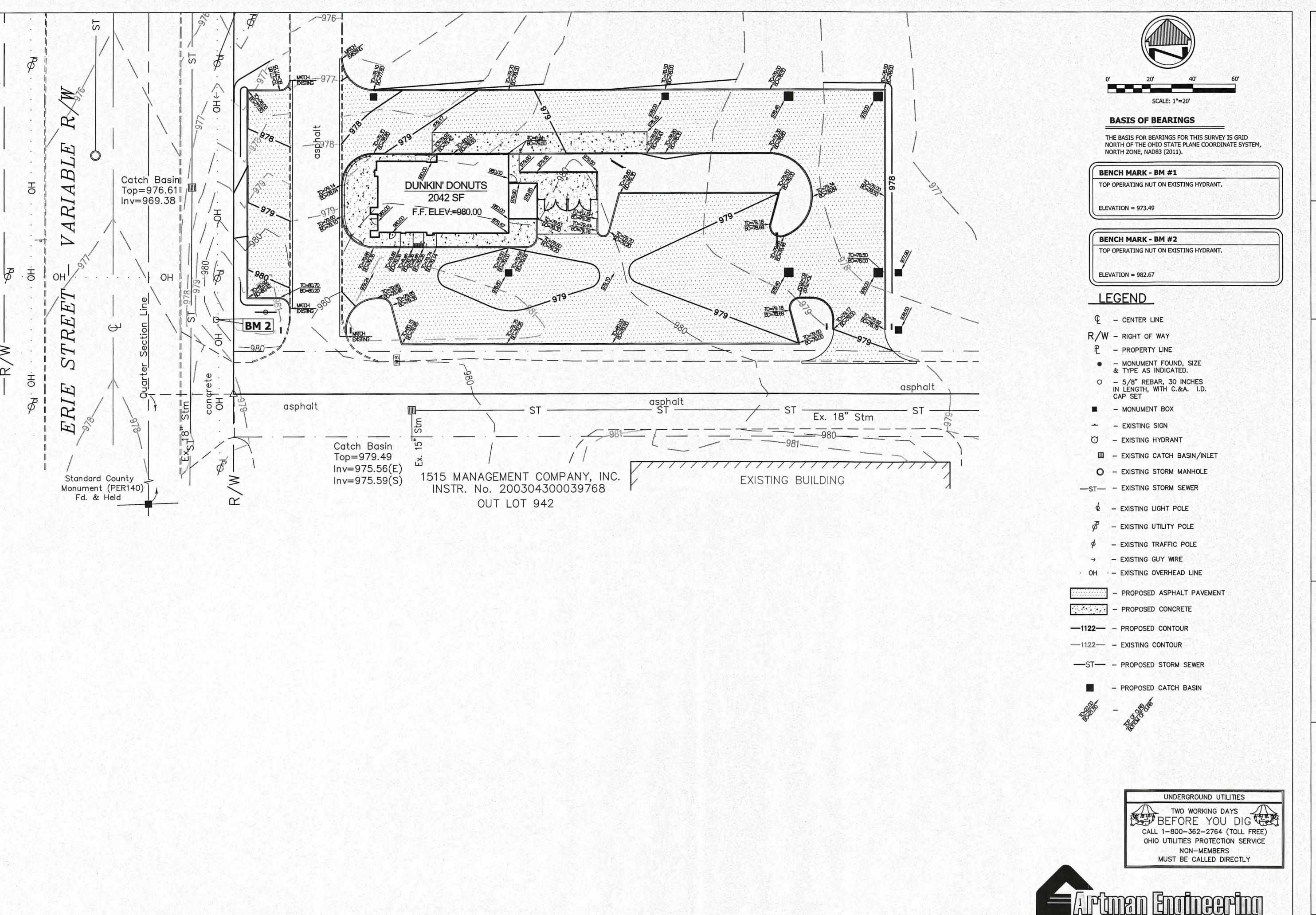




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SIT

NUMBER:



ARTMAN E-65963 DATE 5/12/1

GRADING PLAN

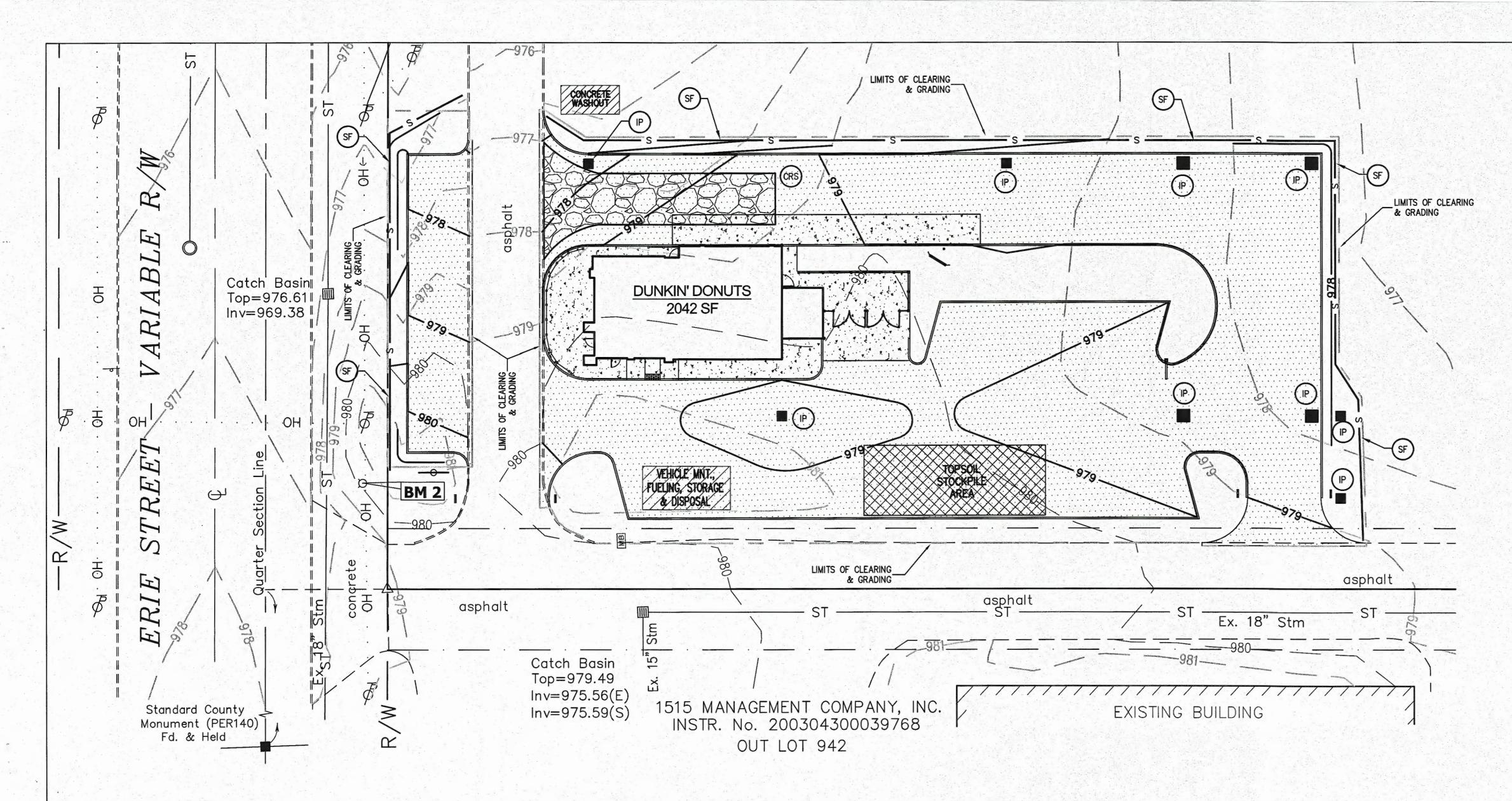
C-4.0

ERIE STREET SOUTH MASSILLON, OHIO 44646

NOTE: DRAWINGS ARE NOT TO SCALE IF SHEET IS PLOTTED ON 11" x 17"

CIVIL ENGINEERING - LAND PLANNING - SITE DEVELOPMENT

13710 CLEVELAND AVENUE NW UNIONTOWN, OHIO 44685 PHONE: (330) 699-9435 FAX: (330) 699-4005



TEMPORARY CONSTRUCTION DRIVE NOTES:

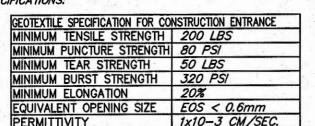
1. STONE SIZE— ODOT #2 (1.5—2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.

2. LENGTH— THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FEET.

3. THICKNESS— THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY USE OR AT LEAST 10" THICK FOR HEAVY DUTY USE..

4. WIDTH— THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.

5. GEOTEXTILE— A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT—PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:



6. TIMING— THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.

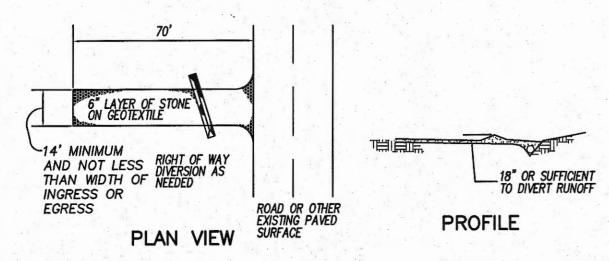
7. CULVERT— A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.

8. WATER BAR— A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE—AND OUT ONTO PAVED SURFACES.

9. MAINTENANCE—TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.

10. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF—SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION—SITE SHALL BE RESTRICTED FROM MUDDY AREAS.

11. REMOVAL—THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.



TEMPORARY CONSTRUCTION DRIVE CRS

GENERAL NOTES

-SEDIMENT PONDS/TRAPS AND PERIMETER CONTROLS SHALL BE IMPLEMENTED AS A FIRST STEP OF GRADING WITHIN 7 DAYS FROM THE START OF GRUBBING AND SHALL CONTINUE TO FUNCTION UNTIL UPLAND AREAS HAVE BEEN STABILIZED.

-DISTURBED AREAS WHICH WILL REMAIN UNWORKED FOR A PERIOD OF 14 DAYS OR MORE, SHALL BE STABILIZED WITH SEEDING AND MULCHING OR OTHER APPROPRIATE MEANS WITHIN 7 DAYS OF LAST DISTURBANCE. AREAS WITHIN 50' OF A STREAM SHALL BE STABILIZED WITHIN 2 DAYS OF LAST DISTURBANCE.

-OFF-SITE VEHICLE TRACKING SEDIMENT SHALL BE MINIMIZED. CONSTRUCTION VEHICLES ARE LIMITED TO THE CONSTRUCTION ACCESS ROAD(S) NOTED ON PLAN.

-ALL EROSION AND SEDIMENTATION CONTROL PRACTICES MUST MEET THE STANDARDS AND SPECIFICATIONS OF THE OHIO'S STANDARDS FOR STORMWATER MANAGEMENT, LAND DEVELOPMENT AND URBAN STREAM PROTECTION, RAINWATER AND LAND DEVELOPMENT HANDBOOK.

-EROSION AND SEDIMENT CONTROL PRACTICES NOT ALREADY SPECIFIED ON THIS PLAN MAY BE NECESSARY DUE TO UNFORESEEN ENVIRONMENTAL CONDITIONS AND/OR CHANGES IN DRAINAGE PATTERNS CAUSED BY EARTH MOVING ACTIVITY.

-CONSTRUCTION MUST COMPLY WITH ALL LOCAL EROSION AND SEDIMENT CONTROL

REGULATIONS.

-NO SOLID OR LIQUID WASTE SHOULD BE DISCHARGED INTO STORM WATER RUNOFF.

-SWPPP MUST SHOW COMPLIANCE WITH LOCAL WASTE DISPOSAL, SANITARY, AND HEALTH REGULATIONS.

-IF MUD, SOIL, OR OTHER DEBRIS IS DEPOSITED ON ADJACENT STREETS, ROADS OR OTHER PROPERTY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SUCH AS DIRECTED BY THE CITY/TOWNSHIP OR ITS ENGINEER AT THE END OF EACH WORK DAY.

-DISTURBED AREAS ARE NOT CONSIDERED STABILIZED UNTIL VEGETATIVE GROWTH IS AT LEAST 70% OR EQUIVALENT.

-TRENCH DEWATERING MUST PASS THROUGH A FILTER BAG.

WINTERIZATION

ANY DISTURBED AREA THAT IS NOT GOING TO BE WORKED FOR 14 DAYS OR MORE MUST BE SEEDED AND MULCHED BY NOVEMBER 1 OR MUST HAVE DORMANT SEEDING OR MULCH COVER APPLIED BETWEEN NOVEMBER 1 AND MARCH 1.

MAINTENANCE AND INSPECTION

- INSPECTION AND MAINTENANCE RECORDS MUST BE AVAILABLE FOR REVIEW ON SITE AT ALL TIMES.

- PERMANENT RECORDS OF MAINTENANCE AND INSPECTION MUST BE MAINTAINED A MINIMUM OF ONCE EVERY SEVEN DAYS AND AFTER STORM EVENTS GREATER THAN 0.5 INCH IN A 24 HOUR PERIOD.

- INSPECTION RECORDS SHALL INCLUDE THE NAME OF INSPECTOR, MAJOR OBSERVATIONS, DATE OF INSPECTION, CERTIFICATION OF COMPLIANCE, CORRECTIVE MEASURES TAKEN.

REPAIRS

ANY EROSION CONTROL MEASURES, STRUCTURES, DEVICES, OR RELATED ITEMS IN NEED OF REPAIR WILL BE MADE WITHIN 3 DAYS.

SITE DATA

TOTAL DEVELOPMENT AREA: 1.08 ACRES
RECEIVING STREAM: CITY OF MASSILLON MS4
DISTURBED AREA: 0.89 ACRES
SOIL TYPE: B

PRESENT CONDITIONS

LAND USE = VACANT

CURVE NUMBER = 75 (WEIGHTED)

IMPERVIOUS AREA = 0.22 ACRES

PROPOSED CONDITIONS

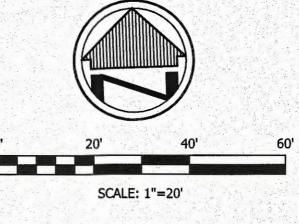
LAND USE = COMMERCIAL

CURVE NUMBER = 90 (WEIGHTED)

IMPERVIOUS AREA = 0.84 ACRES

SEQUENCE OF CONSTRUCTION

- INSTALL SILT FENCE SND STABILIZED CONSTRUCTION ENTRANCE.
- 2. STRIP TOPSOIL. STOCKPILE TOPSOIL FOR REUSE OR REMOVE MATERIAL FROM SITE.
- 3. ROUGH GRADING SITE.
- CONSTRUCT STORM SEWER. INSTALL SILT FENCE CATCH BASIN PROTECTION.
- 5. CONSTRUCT BUILDING.
- 6. INSTALL CURBING AND STABILIZE PAVED AREAS.
- FINISH REMAINING SITE WORK AND STABILIZE THE SITE.
- 8. ONCE SITE IS STABILIZED, REMOVE REMAINING EROSION AND SEDIMENT CONTROLS.



BASIS OF BEARINGS

THE BASIS FOR BEARINGS FOR THIS SURVEY IS GRID NORTH OF THE OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD83 (2011).

ARTMAN

E-65963

S

SWP3

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BBREVIA

C-5.0

ERIE STREFAMASSILLON,

356351

NUMBER:

BENCH MARK - BM #1

TOP OPERATING NUT ON EXISTING HYDRANT

ELEVATION = 973.49

BENCH MARK - BM #2

TOP OPERATING NUT ON EXISTING HYDRANT

ELEVATION = 982.67

LEGEND

C - CENTER LINE

R/W - RIGHT OF WAY

PROPERTY LINE

MONUMENT FOUND, SIZE
 TYPE AS INDICATED.

O - 5/8" REBAR, 30 INCHES IN LENGTH, WITH C.&A. I.D. CAP SET

■ - MONUMENT BOX

- - EXISTING SIGN

O - EXISTING HYDRANT

■ - EXISTING CATCH BASIN/INLET

O - EXISTING STORM MANHOLE

-ST- - EXISTING STORM SEWER

€ - EXISTING LIGHT POLE

 ϕ - EXISTING UTILITY POLE

- EXISTING GUY WIRE

· OH · - EXISTING OVERHEAD LINE

- PROPOSED ASPHALT PAVEMENT

- PROPOSED CONCRETE

-- 1122-- - EXISTING CONTOUR

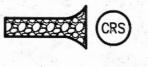
-1122- - PROPOSED CONTOUR

-ST- - PROPOSED STORM SEWER

PROPOSED CATCH BASIN

SF - S - SILT FENCE

(IP) - SILT FENCE CATCH BASIN PROTECTION/DAN DEE BAG

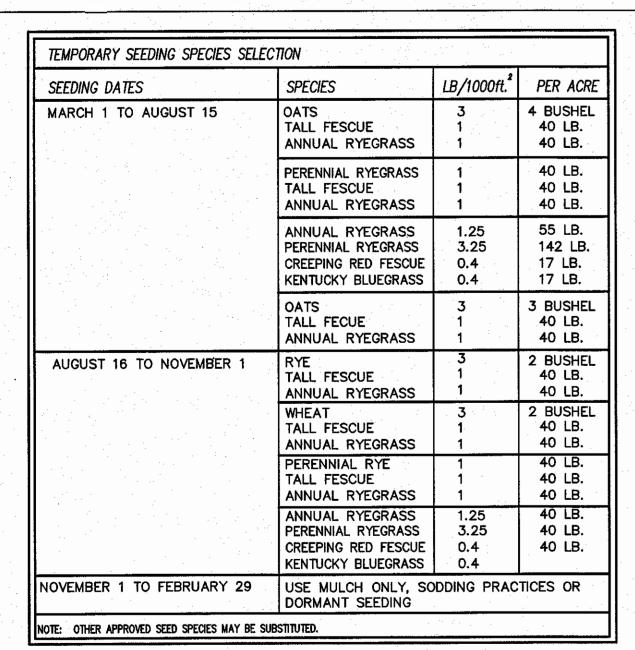


- STABILIZED CONSTRUCTION ENTRANCE

- - LIMITS OF CLEARING & GRADING



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4. SOIL AMENDMENTS--TEMPORARY VEGETATION

SEEDING RATES SHALL ESTABLISH ADEQUATE

FOR LIME AND FERTILIZER SHALL BE USED.

UNIFORMLY WITH A CYCLONE SEEDER, DRILL,

CULTIPACKER SEEDER, OR HYDROSEEDER.

BROADCAST SHALL BE COVERED BY RAKING

CULTIPACKER. IF HYDROSEEDING IS USED. THE

SEED AND FERTILIZER WILL BE MIXED ON-SITE

IMMEDIATELY TO MINIMIZE LOSS BY WIND OR

MECHANICAL-A DISK, CRIMPER, OR SIMILAR

PUNCH OR ANCHOR THE MULCH MATERIAL

ANCHORED SHALL NOT BE FINELY CHOPPED

BUT, GENERALLY, BE LEFT LONGER THAN 6

- MULCH NETTINGS-NETTINGS SHALL BE USED

NECESSARY TO HOLD MULCH IN PLACE IN

AREAS OF CONCENTRATION RUNOFF AND ON

SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70,

PETROSET, TERRA TACK OR EQUAL MAY BE

USED AT RATES RECOMMENDED BY THE

WOOD CELLULOSE FIBER-WOOD-CELLULOSE

WOOD-CELLULOSE FIBER SHALL BE MIXED

WITH WATER AND THE MIXTURE SHALL

CONTAIN A MAXIMUM OF 50 LB./GAL.

DRY WEIGHT OF 750 LB./AC. THE

FIBER BINDER SHALL BE APPLIED AT A NET

ACCORDING TO THE MANUFACTURER'S

- SYNTHETIC BINDERS-SYNTHETIC BINDERS

MANUFACTURER.

RECOMMENDATIONS, NETTING MAY BE

TYPE TOOL SHALL BE SET STRAIGHT TO

INTO THE SOIL STRAW MECHANICALLY

OR DRAGGING AND THEN LIGHTLY TAMPED

AND THE THE SEEDING SHALL BE DONE

STRAW MULCH SHALL BE ANCHORED

WATER. ANCHORING METHODS:

IMMEDIATELY AND WITHOUT INTERRUPTION.

NTO PLACE USING A ROLLER OR

WHEN FEASIBLE, SEED THAT HAS BEEN

STRANDS OF VEGETATION WHICH MAY REQUIRE

THE USE OF SOIL AMMENDMENTS. BASE RATES

- 1. STRUCTURAL FROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSION AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION SITE.
- 2. TEMPORARY SEED SHALL BE APPLIED BETWEEN 5. SEEDING METHOD -- SEED SHALL BE APPLIED CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR REWORKED FOR 21 DAYS OR GREATER. THESE IDLE AREAS SHOULD BE SEEDED WITHIN 7 DAYS AFTER
- 3. THE SEEDBED SHOULD BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION, HOWEVER, TEMPORARY SEEDING SHALL NOT BE POSTPONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.

MULCHING TEMPORARY SEEDING

- APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES AND WITH FAVORABLE SOIL CONDITIONS AND ON VERY FLAT AREAS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION.
- 2. MATERIALS
- STRAW-IF STRAW IS USED, IT SHALL BE UNROTTED SMALL-GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/AC. OR 90LB./1000 SQ. FT. (TWO TO THREE BALES). THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1000 SQ.-FT. SECTIONS AND SPREAD TWO 45 LB. BALES OF STRAWIN EACH SECTION.
- HYDROSEEDERS-IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2000 LB./AC. OR 46LB./1000 SQ. FT.
- OTHER-OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS/AC.

PERMANENT SEEDING SEEDING RATE SEED MIX LB./1000FT. GENERAL USE OR CLOSE MOWING 1/2-1 CREEPING RED FESCUE & FOR WATERWAYS DOMESTIC RYEGRASS 10-20 1/4 - 1/2WITH <2.0 FT/SEC VELOCITY $\frac{1}{2} - 1$ KENTUCKY BLUEGRASS 20-40 40-50 1-11/4 TALL FESCUE TURF-TYPE (DWARF) FESCUE 90 21/4 STEEP BANKS OR CUT SLOPES 40-50 1-11/4 TALL FESCUE LAT PEA 20-25 $\frac{1}{2} - \frac{3}{4}$ DO NOT SEED LATER TALL FESCUE 20-30 1/2 - 3/4THAN AUGUST ROAD DITCHES AND SWALES TALL FESCUE 40-50 1-11/4 2 1/4 TURF-TYPE (DWARF) FESCUE KENTUCKY BLUEGRASS 0.1 LAWNS KENTUCKY BLUEGRASS 100-120 PERENNIAL RYEGRASS 100-120 KENTUCKY BLUEGRASS FOR SHADED AREAS CREEPING RED FESCUE NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.

A SUBROLLER, PLOW OR OTHER IMPLEMENT SHALL BE USED TO REDUCE SOIL COMPACTION AND ALLOW MAXIMIN INFILTRATION (MAXIMIZING INFILTRATION MILL HELP CONTROL BOTH RUNOFF RATE AND WATER QUALITY.) SUBSOILING SHOULD BE DONE WHEN THE SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOILING SHALL NOT BE DONE ON SLIP-PRONE AREAS WHERE SOIL PREPARATION SHOULD BE LIMITED TO WHAT IS NECESSARY FOR ESTABLISHING VEGETATION.

- THE SITE SHALL BE GRADED AS NEEDED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION AND SEEDING.
- RESOIL SHALL BE APPLIED WHERE NEEDED TO ESTABLISH VEGETATION.

SEEDBED PREPARATION

- LIME---AGRICULTURAL GROUND LIMESTONE SHALL BE APPLIED TO ACID SOIL AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, LIME SHALL BE APPLIED AT THE RATE OF 100LB./1000 SQ.FT. O
- FERTILIZER -- FERTILIZER SHALL BE APPLIED AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, FERTILIZER SHALL BE APPLIED AT A RATE OF 25 LB./1000 SQ.FT. OR 1000 LB./AC. OF 10-10-10 OR 12-12-12 ANALYSIS.
- 3. THE LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL WITH A DISK HARROW. SPRING-TOOTH HARROW, OR OTHER SUITABLE FIELD IMPLEMENT TO A DEPTH OF 3 IN. ON SLOPING LAND, THE SOIL SHALL BE WORKED ON THE CONTOUR.

SEEDING DATES AND SOIL CONDITIONS

SEEDING SHOULD BE DONE MARCH 1 TO MAY 3 OR AUGUST 1 TO SEPTEMBER 30. IF SEEDING OCCURS OUTSIDE OF THE ABOVE SPECIFIED DATES, ADDITIONAL MULCH AND ITTIGATION MAY BE REQUIRED TO ENSURE A MINIMUM OF 80% SERMINATION. TILLAGE FOR SEEDBED Preparation should be done when the so IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND OR WINTER SEEDING, SEE FOLLOWING SECTION ON DORMANT SEEDING.

SEEDINGS SHALL NOT BE PLANTED FROM OCTOBER 1 THROUGH NOVEMBER 20. DURING THIS PERIOD, THE SEEDS ARE LIKELY TO GERMINATE BUT PROBABLY WILL NOT BE ABLE TO SURVIVE THE

2. THE FOLLOWING METHODS MAY BE USED FOR "DORMANT SEEDING":

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

- FROM NOVEMBER 20 THROUGH MARCH 15, WHEN SOIL CONDITIONS PERMIT, PREPARE THE SEEDBED lime and fertilizer, apply the selected seed MIXTURE, MULCH AND ANCHOR. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF

- APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER DRILL, CULTIPACKER SEEDER, OR HYDRO-SEEDER urry may include seed and fertilizer) on À FIRM, MOIST SEEDBED.

 WHERE FEASIBLE, EXCEPT WHEN A CULTIPACKER TYPE SEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A CULTIPACKER, ROLLER, OR LIGHT DRAG. ON SLOPING LAND, SEEDING OPERATIONS SHOULD BE ON THE CONTOUR WHERE FEASIBLE.

MULCH MATERIAL SHALL BE APPLIED IMMEDIATELY AFTER SEEDING. DORMANT SEEDING SHALL BE MULCHED. 100% OF THE GROUND SURFACE SHALL BE COVERED WITH AN APPROVED

MATERIALS

- Straw--if Straw is used it shall be unrotted SMALL-GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/AC. OR 90 LB./1000 SQ.FT. (TWO TO THREE BALES). THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1000 SQ.FT. SECTIONS AND SPREAD TWO 45 LB. BALES OF STRAW IN EACH SECTION.
- HYDROSEEDERS--IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2000 LB./AC. OR 46 LB./1000 SQ.FT.
- OTHER--OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS/AC.
- 5. STRAW MULCH ANCHORING METHODS

STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER.

- MECHANICAL -- A DISK, CRIMPER, OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT, GENERALLY, BE LEFT LONGER THAN 6
- MULCH NETTINGS -- NETTINGS SHALL BE USED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF
- CONCENTRATED RUNOFF AND ON CRITICAL SLOPES. - ASPHALT EMULSION--ASPHALT SHALL BE APPLIED AS

RECOMMENDED BY THE MANUFACTURER OR AT THE RATE OF

- SYNTHETIC BINDERS--SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET TERRA TACK, OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER.
- WOOD CELLLULOSE FIBER--WOOD CELLULOSE FIBER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB./AC. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB./100 GAL. OF WOOD CELLULOSE FIBER.

160 GAL./AC.

PERMANENT SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VEGETATION DURING DRY OR HOT WEATHER OR ON ADVERSE SITE CONDITIONS AS NEEDED FOR ADEQUATE MOISTURE FOR SEED GERMINATION AND PLANT GROWTH.

EXCESSIVE IRRIGATION RATES SHALL BE AVOIDED AND IRRIGATION MONITORED TO PREVENT EROSION AND DAMAGE FROM RUNOFF.

STAKES, STAPLES, OR _MIN. 2' OVERHANG OF (2 PER BALE) SANDBAGS PLACED EVENLY PLASTIC SHEETING -STRAW BALE DOUBLE DOUBLE ON ALL FOUR SIDES WOOD OR METAL STAKES LINED 10 LINED 10 - BINDING WIRE (2 PER BALE) VIL PLASTIC-MIL PLASTIC— -PLASTIC LINER SHEETING SHEETING TUCKED UNDER BALES **EXISTING** NATIVE MATERIAL GROUND OR GRAVEL MIN. 2' OVERHANG OF Below Grade (3° Depth) PLASTIC SHEETING # OF CONCRETE WIDTH (FT) LENGTH (F : 2-3 4-5 0 ಂ 0 6-7 8-10 6 6 11-14 ABOVE GRADE (2' DEPTH) OF CONCRETE DOUBLE WIDTH (FT) LENGTH (FT trucks expected LINED 1 MIL PLASTIC SHEETING 3-4 9-11 0 STAKES, STAPLES, OR PLAN -SANDBAGS PLACED EVENLY ON ALL FOUR SIDES ABOVE GRADE WASHOUT PIT BELOW GRADE WASHOUT PIT

THE GROUND, OR INTO STORM DRAINS, OPEN DITCHES, STREETS, OR SURFACE WATER BODIES. EXCESS CONCRETE SHALL ONLY BE DISPOSED OF ONSITE IN A DESIGNATED CONCRETE WASHOUT FACILITY.

DISPOSE OF HARDENED CONCRETE ACCORDING TO APPLICABLE SOLD WASTE REGULATIONS.

PLACE A SECURE, NON-COLLAPSING, NON-WATER COLLECTING COVER OVER THE CONCRETE WASHOUT FACILITY PRIOR TO PREDICTED WET WEATHER TO PREVENT ACCUMULATION AND OVERFLOW OF PRECIPITATION. DESIGN AND INSTALLATION SPECIFICATIONS:

WASH OUT CONCRETE TRUCKS OFF-SITE OR IN DESIGNATED CONCRETE WASHOUT FACILITIES. DO NOT WASH OUT CONCRETE TRUCKS ONTO

INSTALL A SIGN ADJACENT TO TEMPORARY CONCRETE WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE

TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE LOCATED A MINIMUM OF 50 FEET FROM STORM DRAINS, OPEN DITCHES, AND SURFACE

THE TOTAL VOLUME OF ALL CONCRETE WASHOUT FACILITIES MUST BE ADEQUATE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED

BY WASHOUT OPERATIONS. FOR REFERENCE, APPROXIMATELY 7 GALLONS OF WASH WATER ARE REQUIRED TO WASH ONE TRUCK CHUTE, AND APPROXIMATELY 50 GALLONS ARE REQUIRED TO WASH OUT THE HOPPER OF A CONCRETE PUMP TRUCK. SURFACE RUNOFF GENERATED FROM UPSLOPE AREAS SHALL BE DIVERTED AWAY FROM THE WASH PIT.

PLASTIC LINING MATERIAL SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL

MAINTENANCE AND INSPECTIONS

INSPECT AND VERIFY THAT CONCRETE WASHOUT FACILITIES ARE IN PLACE PRIOR TO THE COMMENCEMENT OF CONCRETE F OF

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DURING PERIODS OF CONCRETE WORK, INSPECT CONCRETE WASHOUT FACILITIES DAILY TO VERIFY CONTINUED PERFORMANCE. ·CHECK OVERALL CONDITION AND PERFORMANCE.

·CHECK REMAINING CAPACITY (% FULL). ·VERIFY PLASTIC LINERS ARE INTACT AND SIDEWALLS ARE NOT DAMAGED.

CONCRETE WASHOUT FACILITIES SHALL BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 12 INCHES.

A CONCRETE WASHOUT FACILITY MUST BE CLEANED BEFORE IT IS MORE THAN 75% FULL. RE-LINE THE STRUCTURE WITH NEW PLASTIC AFTER EACH CLEANING.

CONCRETE WASHOUT DETAIL NOT TO SCALE

2 BY 4 IN. FRAMED PORTION OF 2 BY 4 IN.

FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE

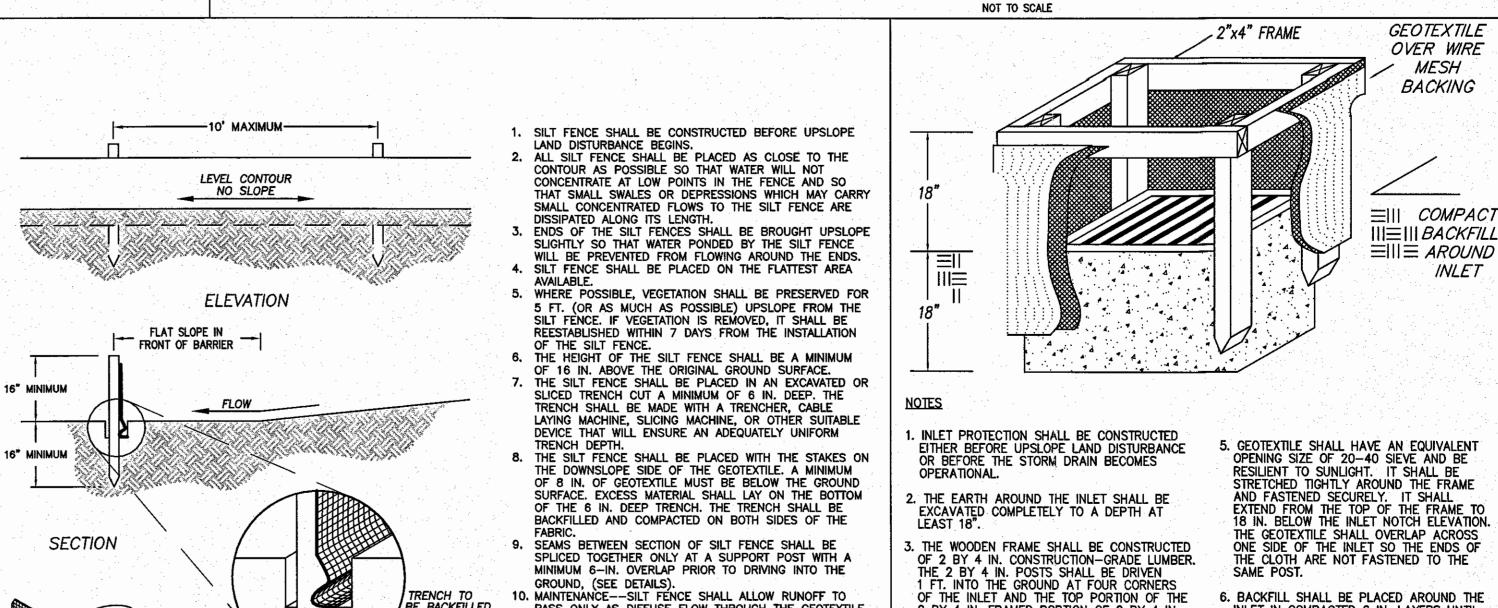
WIRE MESH SHALL BE OF SUFFICIENT STRENGTH

AT LEAST 6 IN. BELOW ADJACENT ROADS I

O SUPPORT FABRIC WITH WATER FULLY

PONDED WATER WOULD POSE A SAFETY

HAZARD TO TRAFFIC.



MINIMUM 6-IN. OVERLAP PRIOR TO DRIVING INTO THE

GROUND, (SEE DETAILS). 10. MAINTENANCE——SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER THE FABRIC OR AROUND THE FENCE ENDS, OR IN ANY OTHER WAY ALLOWS A CONCENTRATED FLOW DISCHARGE, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.

THE DEPOSIT REACHES APPROXIMATELY ONE-HALF OF HE HEIGHT OF THE SILT FENCE.

SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

CRITERIA FOR SILT FENCE MATERIALS

BE BACKFILLED AND COMPACTED

TEST METITOD

ASTM D 4632

ASTM D 4632

ASTM D 4833

ASTM D 4533

ASTM D 4751

ASTM D 4491

ASTM G 4355

AROUND STAKES BEFORE DRIVING

SILT FENCE

VALUES

120 LBS

50%

50 LBS

40 LBS

≤0.84 mm

1X10-2 sec.-1

70%

SECTIONS OF SILT FENCE

MINIMUM TENSILE STRENGTH

MINIMUM TEAR STRENGTH

APPARENT OPENING SIZE

MINIMUM PERMITTIVITY

MAXIMUM ELONGATED AT 60 LBS

MINIMUM PUNCTURE STRENGTH

FABRIC PROPERTIES

UV EXPOSURE STRENGTH RETENTION

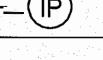
1. FENCE POST—THE LENGTH SHALL BE A MINIMUM OF 32 INCHES. WOOD POSTS WILL BE 2-BY-2 IN. NOMINAL DIMENSIONED HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLITS AND OTHER VISIBLE IMPERFECTIONS, THAT WILL WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT. POSTS SHALL BE DRIVEN A MINIMUM 16 INCHES INTO THE GROUND, WHERE POSSIBLE, IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT/WATER

2. SILT FENCE FABRIC (SEE CHART BELOW):



- 6. BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6 IN. LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION
- ON ENDS AND TOP ELEVATION ON SIDES. 7. A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION AND IF RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING POND. THE TOP OF THE EARTH DIKES SHALL BE AT LEAST 6 IN. HIGHER THAN THE TOP OF THE FRAME.

INLET PROTECTION





13710 CLEVELAND AVENUE NW UNIONTOWN, OHIO 44685 PHONE: (330) 699-9435 FAX: (330) 699-4005

NON-SEDIMENT POLLUTION CONTROL

1. EDUCATE CONSTRUCTION PERSONNEL, INCLUDING SUBCONTRACTORS WHO MAY USE OR HANDLE HAZARDOUS OR TOXIC MATERIALS, MAKING THEM AWARE OF THE FOLLOWING GENERAL GUIDELINES:

DISPOSAL AND HANDLING HAZARDOUS AND OTHER CONSTRUCTION WASTE

- PREVENT SPILLS - USE PRODUCTS UP

APPROVED OHIO EPA CD&D LANDFILL.

- FOLLOW LABEL DIRECTIONS FOR DISPOSAL - REMOVE LIDS FROM EMPTY BOTTLES AND CANS WHEN DISPOSING IN TRASH - RECYCLE WASTES WHENEVER POSSIBLE
- DON'T POUR INTO WATERWAYS, STORM DRAINS OR ONTO THE GROUND - DON'T POUR DOWN THE SINK, FLOOR DRAIN OR SEPTIC TANKS - DON'T BURY CHEMICALS OR CONTAINERS

- DON'T BURN CHEMICALS OR CONTAINERS

- DON'T MIX CHEMICALS TOGETHER

- 2. WASTE DISPOSAL CONTAINERS SHALL BE PROVIDED FOR THE PROPER COLLECTION OF ALL WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, SANITARY GARBAGE, PETROLEUM PRODUCTS AND ANY HAZARDOUS MATERIALS TO BE USED ON-SITE. CONTAINERS SHALL BE COVERED AND NOT LEAKING. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL. CONSTRUCTION DEMOLITION AND DEBRIS (CD&D) WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH ORC 3714 AT AN
- . NO CONSTRUCTION RELATED WASTE MATERIALS ARE TO BE BURIED ON—SITE. BY EXCEPTION, CLEAN FILL (BRICKS, HARDENED CONCRETE, SOIL) MAY BE UTILIZED IN A WAY THAT DOES NOT ENCROACH UPON NATURAL WETLANDS, STREAMS OR THEIR FLOODPLAINS. FILLING OF STREAM SIDE AREAS IS FILL MAY NOT THE CONTAMINATION OF WATERS OF THE STATE. UNLESS PROHIBITED BY LOCAL ORDINANCE OR
- 4. CONSTRUCTION AND DEMOLITION DEBRIS (CD&D) DISPOSAL. CD&D WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH ORC 3714 AT AN APPROVED OHIO EPA CD&D LANDFILL. CD&D WASTE IS DEFINED AS ALL MATERIALS ATTACHED TO A STRUCTURE, WHICH IS BEING DEMOLISHED (FOR MATERIALS CONTAINING ASBESTOS SEE ITEM 12).
- 5. HANDLING CONSTRUCTION CHEMICALS. MIXING, PUMPING, TRANSFERRING OR OTHER HANDLING OF CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH OR STORM DRAIN.
- 6. EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED AWAY FROM WATERCOURSES, DITCHES OR STORM DRAINS, IN AN AREA DESIGNATED FOR THAT PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS. SECONDARY CONTAINMENT SHALL BE PROVIDED FOR ALL FUEL OIL STORAGE TANKS. THESE AREAS MUST BE INSPECTED EVERY SEVEN CLAYS AND WITHIN 24 HRS. OF A 0.5 INCH OR GREATER RAIN EVENT TO ENSURE THERE ARE NO EXPOSED MATERIALS WHICH WOULD CONTAMINATE STORM WATER. SITE OPERATORS MUST BE AWARE THAT SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) REQUIREMENTS MAY APPLY. AN SPCC PLAN IS REQUIRED FOR SITES WITH ONE SINGLE ABOVEGROUND TANK OF 660 GALLONS OR MORE, ACCUMULATIVE ABOVEGROUND STORAGE OF 1330 GALLONS OR MORE, OR 42,000 GALLONS OF UNDERGROUND STORAGE. SOILS THAT HAVE BECOME CONTAMINATED MUST BE DISPOSED OF ACCORDANCE WITH ITEM 8 "CONTAMINATED SOILS".

7. CONCRETE WASH WATER/WASH OUTS. CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER, FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FT. OF THE SUMP SHALL BE CUT AND PLUGGED. FOR SMALL PROJECTS, TRUCK CHUTES MAY BE RINSED ON THE LOT AWAY FROM ANY WATER CONVEYANCES.

8. CONTAMINATED SOILS. IF SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. ARE SPILLED, LEAKED, OR RELEASED ONTO THE SOIL, THE SOIL SHOULD BE DUG UP AND DISPOSED OF AT LICENSED SANITARY LANDFILL OR OTHER APPROVED PETROLEUM CONTAMINATED SOIL REMEDIATION FACILITY (NOT A CONSTRUCTION/DEMOLITION DEBRIS LANDFILL). PLEASE BE AWARE THAT STORM WATER RUN OFF ASSOCIATED WITH CONTAMINATED SOILS ARE NOT AUTHORIZED UNDER OHIO EPA'S GENERAL STORM WATER PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITIES. IN THE EVENT THERE ARE LARGE EXTENSIVE AREAS OF CONTAMINATED SOILS ADDITIONAL MEASURES ABOVE AND BEYOND THE CONDITIONS OF OHIO EPA'S GENERAL CONSTRUCTION STORM WATER PERMIT WILL BE REQUIRED. DEPENDING ON THE EXTENT OF CONTAMINATION, ADDITIONAL TREATMENT AND/OR COLLECTION AND DISPOSAL MAY BE REQUIRED. ALL STORM WATER DISCHARGES ASSOCIATED WITH THE CONTAMINATED SOILS MUST BE AUTHORIZED UNDER AN ALTERNATE NPDES (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM) PERMIT.

9. SPILL REPORTING REQUIREMENTS: SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST, KITTY LITTER OR OTHER ABSORBAN MATERIAL AND DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LANDFILL. HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL-BASED PAINTS, AND CEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING. SPILLS SHALL BE REPORTED TO OHIO EPA (1-800-282-9378). SPILLS OF 25 GALLONS OR MORE OF PETROLEUM PRODUCTS SHALL BE REPORTED TO OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MIN. OF THE DISCOVERY OF THE RELEASE, ALL SPILLS, WHICH RESULT IN CONTACT WITH WATERS OF THE STATE, MUST BE REPORTED TO OHIO EPA'S HOTLINE.

10. OPEN BURNING. NO MATERIALS MAY BE BURNED WHICH CONTAIN RUBBER, GREASE, ASPHALT, OR PETROLEUM PRODUCTS SUCH AS TIRES, CARS, AUTOPARTS, PLASTICS OR PLASTIC COATED WIRE. (SEE OAC 3745-19) OPEN BURNING IS NOT ALLOWED IN RESTRICTED AREAS. RESTRICTED AREAS ARE DEFINED AS: L) WITHIN CORPORATION LIMITS; 2) WITHIN 1000 FEET OUTSIDE A MUNICIPAL CORPORATION HAVING A POPULATION OF 1000 TO 10,000; AND 3) A ONE MILE ZONE OUTSIDE OF A CORPORATION OF 10, 000 OR MORE. OUTSIDE A RESTRICTED AREA, NO OPEN BURNING CAN TAKE PLACE WITHIN A 1000 FEET OF AN INHABITED BUILDING LOCATED OFF THE PROPERTY WHERE THE FIRE IS SET. OPEN BURNING IS PERMISSIBLE IN A RESTRICTED AREA FOR THE FOLLOWING ACTIVITIES: HEATING TAR, WELDING AND ACETYLENE TORCHES, SMUDGE POTS AND SIMILAR OCCUPATIONAL NEEDS, AND HEATING FOR WARMTH OR OUTDOOR BARBEQUES. OUTSIDE OF RESTRICTED AREAS, OPEN BURNING IS PERMISSIBLE FOR LANDSCAPE WASTES (PLANT MATERIAL), LAND-CLEARING WASTES (PLANT MATERIAL, WITH PRIOR WRITTEN PERMISSION FROM OHIO EPA), AND AGRICULTURAL WASTES (MATERIAL GENERATED BY CROP, HORTICULTURAL, OR LIVESTOCK PRODUCTION PRACTICES. THIS INCLUDES FENCE POSTS AND SCRAP LUMBER, BUT NOT BUILDINGS).

11. DUST CONTROL/SUPPRESSANTS. DUST CONTROL IS REQUIRED TO PREVENT NUISANCE CONDITIONS. DUST CONTROLS MUST BE USED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND NOT BE APPLIED IN A MANNER, WHICH WOULD RESULT IN A DISCHARGE TO WATERS OF THE STATE. ISOLATION DISTANCES FROM BRIDGES, CATCH BASINS, AND OTHER DRAINAGEWAYS MUST BE OBSERVED. APPLICATION (EXCLUDING WATER) MAY NOT OCCUR WHEN PRECIPITATION IS IMMINENT AS NOTED IN THE SHORT TERM FORECAST. USED OIL MAY NOT BE APPLIED FOR DUST CONTROL.

12. OTHER AIR PERMITTING REQUIREMENTS: ALL CONTRACTORS AND SUB CONTRACTORS MUST BE MADE AWARE THAT CERTAIN ACTIVITIES ASSOCIATED WITH CONSTRUCTION WILL REQUIRE AIR PERMITS. ACTIVITIES INCLUDING BUT NOT LIMITED TO MOBILE CONCRETE BATCH PLANTS, MOBILE ASPHALT PLANTS, CONCRETE CRUSHERS, LARGE GENERATORS, ETC., WILL REQUIRE SPECIFIC OHIO EPA AIR PERMITS FOR INSTALLATION AND OPERATION. THESE ACTIVITIES MUST SEEK AUTHORIZATION FROM THE CORRESPONDING DISTRICT OF OHIO EPA. NOTIFICATION FOR RESTORATION AND DEMOLITION MUST BE SUBMITTED TO OHIO EPA FOR ALL COMMERCIAL SITES TO DETERMINE IF ASBESTOS CORRECTIVE

13. PROCESS WASTE WATER/LEACHATE MANAGEMENT. ALL CONTRACTORS SHALL BE MADE AWARE THAT OHIO EPA'S CONSTRUCTION GENERAL PERMIT ONLY ALLOWS THE DISCHARGE OF STORM WATER. OTHER WASTE STREAMS/DISCHARGES INCLUDING BUT NOT LIMITED TO VEHICLE AND/OR EQUIPMENT WASHING, LEACHATE ASSOCIATED WITH ON-SITE WASTE DISPOSAL, CONCRETE WASH OUTS, ETC ARE A PROCESS WASTEWATER. THEY ARE NOT AUTHORIZED FOR DISCHARGE UNDER THE GENERAL STORM WATER PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITIES, ALL PROCESS WASTEWATERS MUST BE COLLECTED AND PROPERLY DISPOSED AT AN APPROVED DISPOSAL FACILITY. IN THE EVENT THERE ARE LEACHATE OUTBREAKS ASSOCIATED WITH ONSITE DISPOSAL, MEASURES MUST BE TAKEN TO ISOLATE THIS DISCHARGE FOR COLLECTION AND PROPER DISPOSAL, INVESTIGATIVE MEASURES AND CORRECTIVE ACTIONS MUST BE IMPLEMENTED TO IDENTIFY AND ELIMINATE

14. PERMIT TO INSTALL (PTI) REQUIREMENTS: ALL CONTRACTORS AND SUB CONTRACTORS MUST BE MADE AWARE THAT A PTI MUST BE SUBMITTED AND APPROVED BY OHIO EPA PRIOR TO THE CONSTRUCTION OF ALL CENTRALIZED SANITARY SYSTEMS, INCLUDING SEWER EXTENSIONS, AND SEWERAGE SYSTEMS (EXCEPT THOSE SERVING ONE, TWO, AND THREE FAMILY DWELLINGS) AND POTABLE WATER LINES. THE ISSUANCE OF AN OHIO EPA CONSTRUCTION GENERAL STORM WATER PERMIT DOES NOT AUTHORIZE THE INSTALLATION OF ANY SEWERAGE SYSTEM WHERE OHIO EPA HAS NOT APPROVED A PTI.