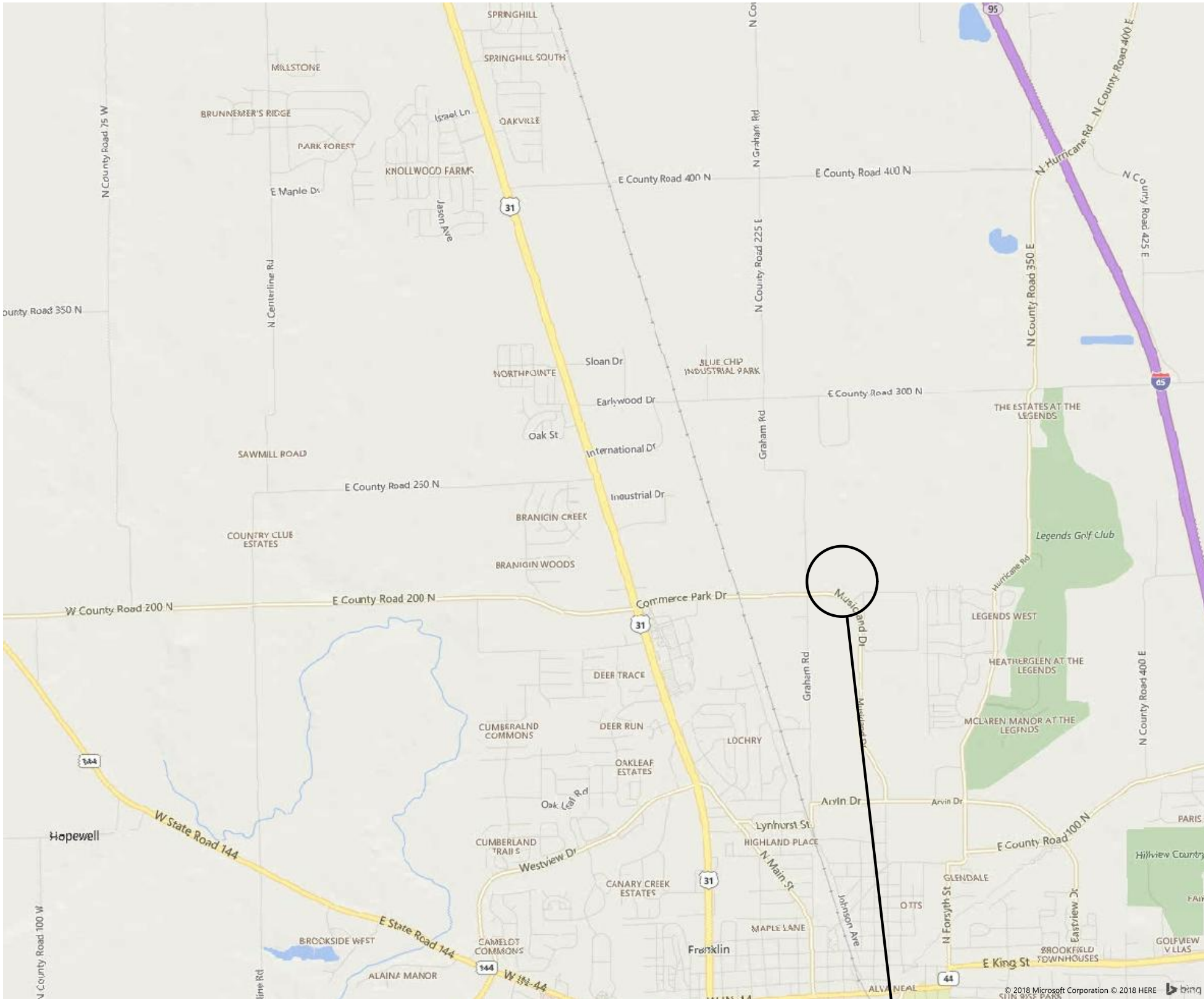
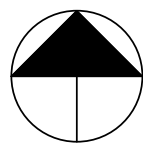


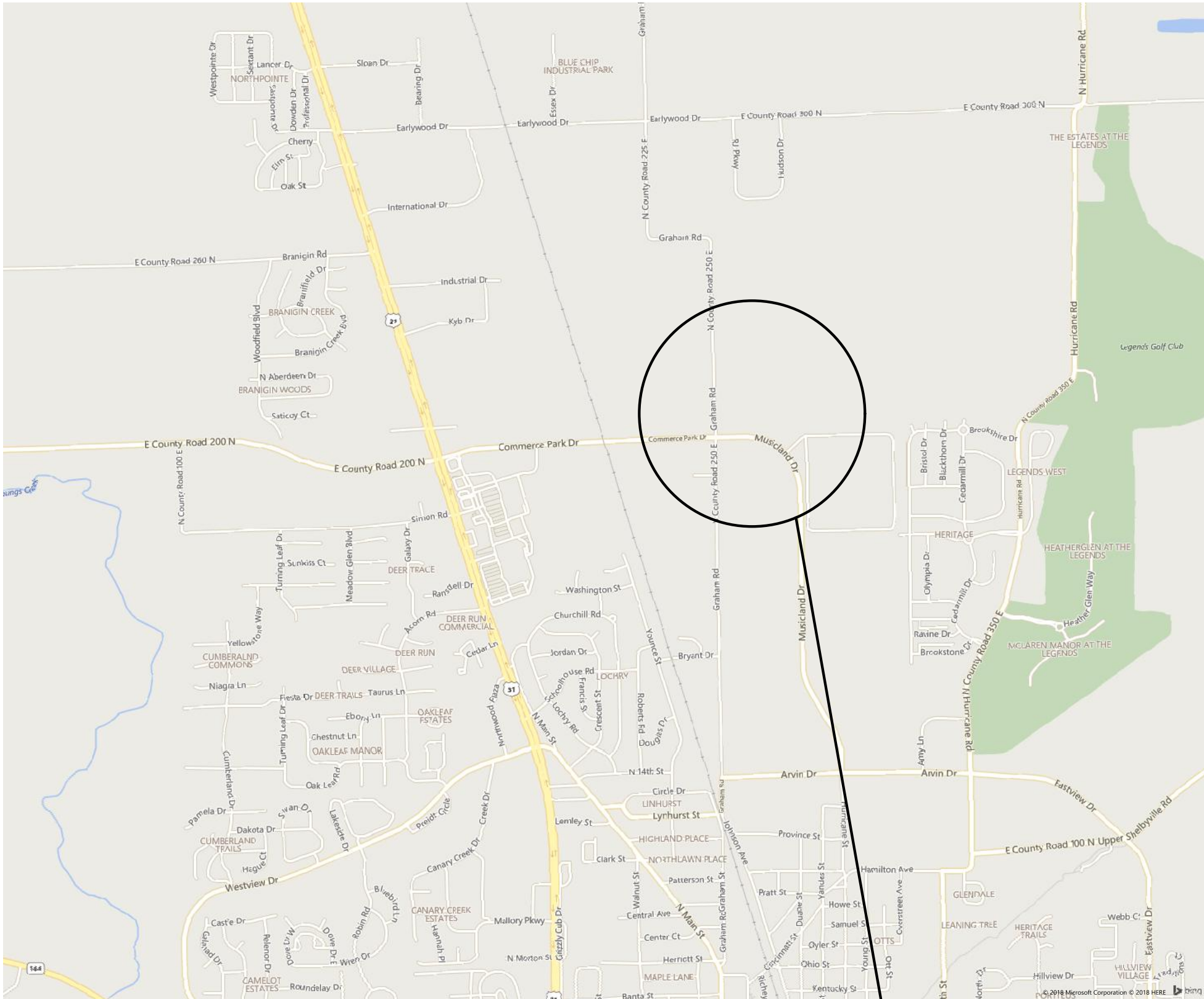
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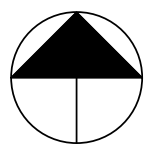
LOCATION MAP



Project Site



VICINITY MAP



Project Site

AIRTOMIC

CONSTRUCTION SET

LOT 2, LINVILLE WAY PLAT

FRANKLIN, INDIANA 46131

Sheet List Table	
Sheet Number	Sheet Title
C001	TITLE SHEET
C100	EXISTING TOPOGRAPHY
C200	SITE PLAN
C500	EROSION CONTROL PLAN
C600	SITE DETAILS
C300	GRADING PLAN
C590	STORM WATER POLLUTION PREVENTION PLAN
C601	SITE DETAILS

PROJECT DESCRIPTION

THE PROJECT WILL CONSIST OF THE CONSTRUCTION OF A NEW 30,000 SF BUILDING WITH ACCESS DRIVE, DOCKS AND PARKING - INCLUDING EXPANSION CAPABILITIES FOR BOTH BUILDING AND THE PARKING.

LAND DESCRIPTION

LOT 2, LINVILLE BUSINESS PARK SECONDARY PLAT

CONTACT INFORMATION

Contractor: Tom Davis, Runnebohm Construction, 144 East Rampart Street, Shelbyville, IN 46176
Engineer: Kristopher M. Holeyfield, P.E., Veridus Group, 6280 N. Shadeland Avenue, Suite A, Indianapolis, IN 46220, (317) 598-6647
Architect: TBD

UTILITY STATEMENT

The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantees that the underground utilities comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although the surveyor does certify that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.



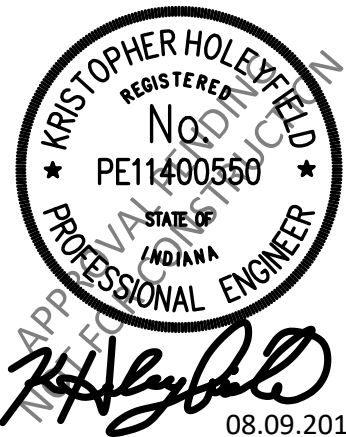
PROJECT
AIRTOMIC
LOT 2, LINVILLE WAY PLAT
FRANKLIN, IN

REVISIONS		
NO.	DATE	DESCRIPTION

ISSUE DATE: 08/09/2018
DRAWN BY: KMH
CHECKED BY: KMH

DRAWING TITLE

TITLE SHEET



PROJECT NUMBER
2018.0033

DRAWING NUMBER

C001



LOT 2 OF THE LINVILLE BUSINESS PARK SECONDARY PLAT

PLAT CABINET E, SLIDE 320A, B, C

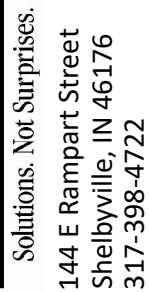
INST. #2018-009566

1. ALL WORK TO CONFORM TO STATE AND LOCAL REGULATIONS.
2. THE CONTRACTOR SHALL KEEP ADJOINING PROPERTIES CLEAN OF CONSTRUCTION DEBRIS AND CONSTRUCTION TRAFFIC AT ALL TIMES.
3. THE CONTRACTOR SHALL PROTECT AND NOT DESTROY THE BASE SURVEY CONTROL POINTS DURING DEMOLITION AND CONSTRUCTION.
4. ALL UTILITY INFORMATION SHALL BE VERIFIED BY THE CONTRACTOR CONTACT EXISTING IMMEDIATELY IF ANY VARIATION EXISTS.
5. MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT AGAINST DAMAGE DURING DEMOLITION AND CONSTRUCTION OPERATIONS.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.

LEGEND:	
	DESCRIPTION: SIGN / TWO POST SIGN
	WATER VALVE
	FIRE HYDRANT
	WATER METER
	GAS METER
	GAS VALVE
	CLEAN-OUT
	ELECTRIC METER BOX
	ELECTRIC TRANSFORMER
	ELECTRIC PEDESTAL
	GUARD POST
	AIR CONDITIONER UNIT
	LIGHT POLE ROUND
	REBAR SET/FOUND
	FLAT GRATE INLET
	COMBINATION POLE
	TELEPHONE PEDESTAL
	WOODEN LIGHT POLE
	LIGHT POLE SQUARE
	CONIFEROUS TREE & SIZE
	DECIDUOUS TREE & SIZE
	BUSH
	DRAINAGE MANHOLE
	SANITARY MANHOLE
	CURB INLET
	GROUND ACCENT LIGHT
	GUY WIRE
----- WTR	UNDG. WATER LINE
----- G	UNDG. GAS LINE
----- UT	UNDG. TELEPHONE LINE
----- UE	UNDG. ELECTRIC LINE
----- OET	OVERHEAD ELE. & TEL
----- OECT	OVERHEAD ELE TEL & CAB
----- OE	OVERHEAD ELECTRIC
VCP	vitrified clay pipe
RCP	reinforced concrete pipe
PVC	polyethylene coated pipe

MAG SPIKE FOUND IN THE NORTH EAST FACE OF A POWER POLE (NO NUMBER), 60 FEET SOUTH OF THE CENTERLINE OF COMMERCE PARKWAY AND 35 FEET EAST OF THE CENTERLINE OF GRAHAM ROAD AS RECORDED ON THE SECONDARY PLAT OF LINVILLE BUSINESS PARK, INSTRUMENT 2018-009566, PLAT CABINET E, SLIDE 320ABC IN THE OFFICE OF THE RECORDER OF JOHNSON COUNTY, INDIANA.

SC TBM #1	ELEVATION 757.11 (NAVD 88)
UT "X" ON TOP OF THE 24" CONCRETE CURB, NORTH SIDE OF LINVILLE PARKWAY, 7.6 FEET WEST OF THE CENTER OF A CURB INLET, NORTHWEST OF LOT 2 IN LINVILLE BUSINESS PARK.	
SC TBM #2	ELEVATION 756.85
UT "X" ON TOP OF THE 24" CONCRETE CURB, NORTHEAST SIDE OF LINVILLE PARKWAY, ABOUT THE MIDDLE OF THE 200-FOOT-RADIUS CURVE ON THE NORTHEAST SIDE OF LOT 2 IN LINVILLE BUSINESS PARK.	



PROJECT
AIRTOOMIC

LOT 2, LINVILLE WAY PLAT
FRANKLIN, IN

[illegible]

EXISTING TOPOGRAPHY

APPROVAL PENDING
NOT FOR CONSTRUCTION

PROJECT NUMBER
2018.0033

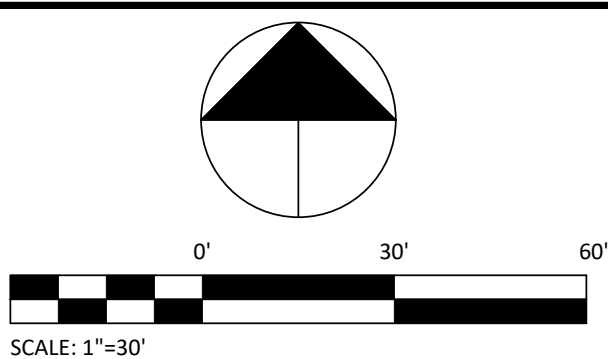
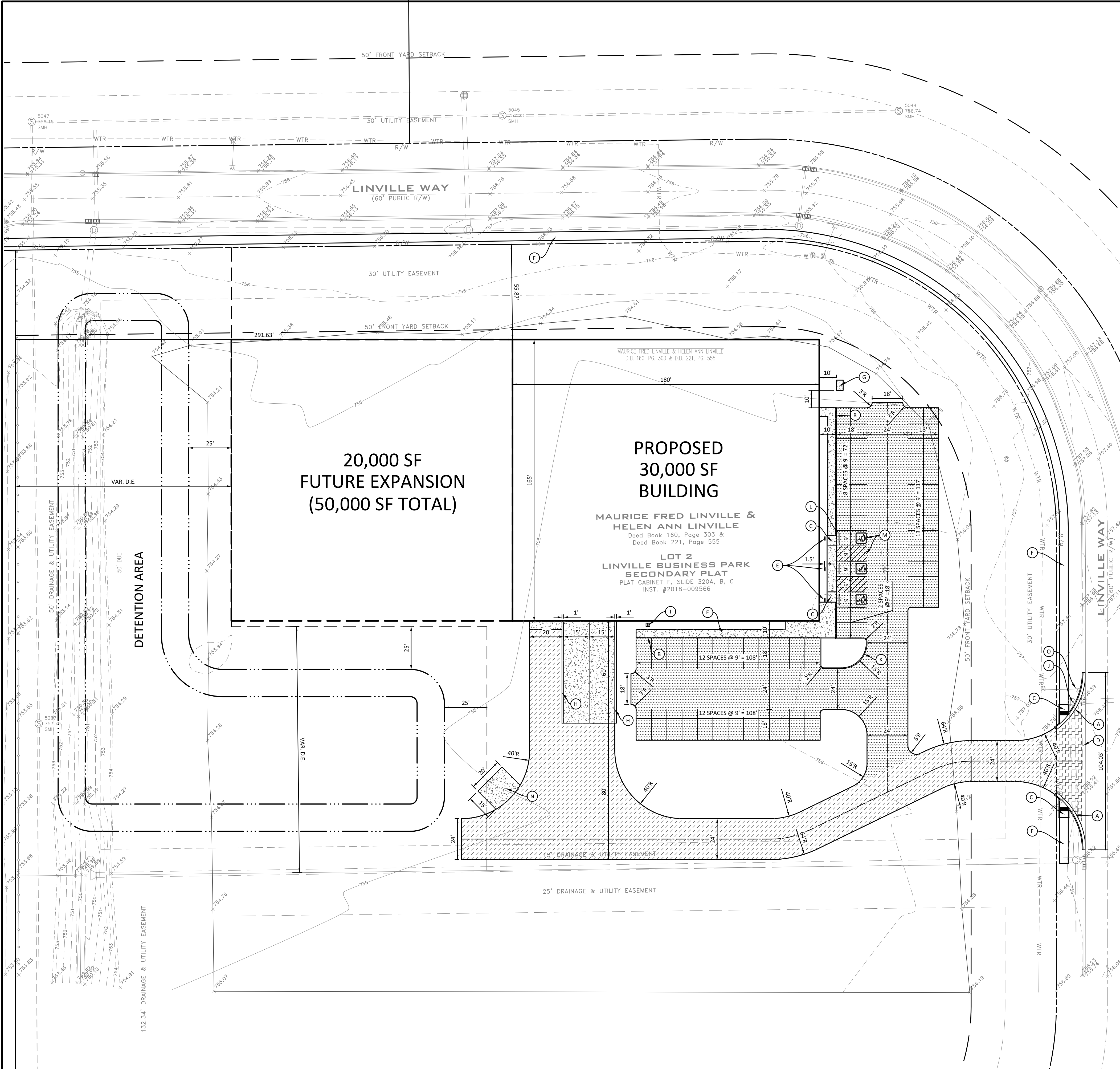
DRAWING NUMBER

C100



PER INDIANA STATE LAW IS-69-1991. IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

PRINT DATE: 8/8/18
PLOT SCALE: 1"=30'



KEYNOTES

- A. 24" CURB AND GUTTER
- B. COMBINED 6" CURB AND SIDEWALK
- C. ADA RAMP
- D. 24" DEPRESSED CURB
- E. ADA SIGN (TYP.)
- F. CONCRETE SIDEWALK (BY OTHERS)
- G. ELECTRIC TRANSFORMER PAD (PER AHJ STANDARDS)
- H. TRUCK DOCK RETAINING WALL
- I. BIKE RACK
- J. ADJUST EXISTING RIM TO BE FLUSH WITH GRADE
- K. 6" CONCRETE CURB
- L. WHEEL STOP (TYP.)
- M. ADA STRIPING (TYP.)
- N. DUMPSTER ENCLOSURE
- O. ADJUST EXISTING FIRE HYDRANT TO BE 2' OFF BACK OF CURB

SITE LEGEND

- LIGHT DUTY ASPHALT PAVEMENT
- HEAVY DUTY ASPHALT PAVEMENT
- RIGHT-OF-WAY PAVEMENT
- CONCRETE
- GRAVEL
- ADA ACCESSIBLE PARKING SPACE

SITE DATA

SITE ZONING:	INDUSTRIAL LIGHT
PROJECT AREA:	5.0 ACRES
BUILDING AREA:	30,000 SF
STANDARD PARKING:	47
HANDICAP PARKING PROVIDED (includes X van accessible space)	3
TOTAL PROPOSED PARKING PROVIDED	50



PER INDIANA STATE LAW IS-69-1991, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CENTRAL STATES CONSULTING, LLC. PROJECT NUMBER 18-069, DATED 07/23/2018.

GENERAL NOTES

- ANY DISCREPANCY IN THE PLANS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER FOR REVIEW.
- ALL WORK TO CONFORM TO STATE AND LOCAL REGULATIONS AS APPROPRIATE.
- ALL DIMENSIONS ARE TO EDGE OF PAVEMENT (EOP) OR FACE OF CURB, UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS ARE TO FACE OF BRICK OR FACING MATERIAL, WHERE APPLICABLE.
- ALL DIMENSIONS ARE PARALLEL WITH OR PERPENDICULAR TO BASE LINES, PROPERTY LINES OR BUILDING LINES UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO START CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- CONTRACTOR RESPONSIBLE FOR VERIFICATION OF ALL UTILITIES AND ELEVATIONS PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCY IS DISCOVERED. ANY DAMAGE TO EXISTING FACILITIES WILL BE CORRECT AND PAID BY THE CONTRACTOR.
- CONTRACTOR SHALL PROVIDE SMOOTH TRANSITIONS FROM NEW AREAS TO EXISTING FEATURES AS NECESSARY.
- IF LEFT UNDISTURBED FOR MORE THAN 7 DAYS UNLESS OTHERWISE NOTED. ALL NEW SEEDED AREAS SHALL HAVE A MINIMUM OF 4" OF TOP SOIL.
- ALL UTILITY TRENCHES UNDER AND WITHIN 5 FEET OF PAVEMENT SHALL BE COMPLETELY BACKFILLED WITH GRANULAR MATERIAL.
- ALL SIDEWALKS SHALL COMPLY WITH ADA STANDARDS, WITH A MAXIMUM CROSS SLOPE OF 1/4 FT. & MAXIMUM LINEAR SLOPE OF 1:20.
- THE CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION. IF A CORNER MONUMENT IS MOVED OR DAMAGED, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OR SURVEYOR OF RECORD.
- CONCRETE JOINTS TO BE PROVIDED IN ACCORDANCE WITH ACI GUIDELINES.
- HORIZONTAL LAYOUT PLAN FOR CONSTRUCTION STAKING TO BE PROVIDED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

EXISTING LEGEND

LEGEND:	
SYMBOL	DESCRIPTION:
	SIGN / TWO POST SIGN
	WATER VALVE
	FIRE HYDRANT
	WATER METER
	GAS METER
	GAS VALVE
	CLEAN-OUT
	ELECTRIC METER BOX
	ELECTRIC TRANSFORMER
	ELECTRIC PEDESTAL
	GUARD POST
	AIR CONDITIONER UNIT
	LIGHT POLE ROUND
	REBAR SET/FOUND
	FLAT GRATE INLET
	COMBINATION POLE
	TELEPHONE PEDESTAL
	WOODEN LIGHT POLE
	LIGHT POLE SQUARE
	CONIFEROUS TREE & SIZE
	DECIDUOUS TREE & SIZE
	BUSH
	DRAINAGE MANHOLE
	SANITARY MANHOLE
	CURB INLET
	GROUND ACCENT LIGHT
	GUY WIRE
	UNDG. WATER LINE
	UNDG. GAS LINE
	UNDG. TELEPHONE LINE
	UNDG. ELECTRIC LINE
	OVERHEAD ELE. & TEL
	OVERHEAD ELE TEL & CAB
	OVERHEAD ELECTRIC
	vitirified clay pipe
	reinforced concrete pipe
	polyethylene coated pipe



6280 N. Shadeland Avenue, Suite A
Indianapolis, IN 46220
Phone: (317) 598-6647



Solutions. Not Surprises.
144 E. Rampart Street
Shelbyville, IN 46176
317-398-4722

PROJECT
AIRTOOMIC
LOT 2, LINVILLE WAY PLAT
FRANKLIN, IN

REVISIONS		
NO.	DATE	DESCRIPTION

ISSUE DATE: 08/09/2018
DRAWN BY: KMH
CHECKED BY: KMH

DRAWING TITLE

SITE PLAN



PROJECT NUMBER
2018.0033

DRAWING NUMBER

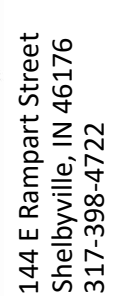
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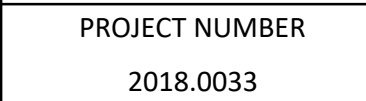
LEGEND:

PER INDIANA STATE LAW IS-69-1991. IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

CROSSROADS TBM #3	ELEVATION 757.11 (NAVD 88)
<p>A MAG SPIKE FOUND IN THE NORTH FACE OF A POWER POLE (NO NUMBER), 60 FEET SOUTH OF THE CENTERLINE OF COMMERCE PARKWAY AND 35 FEET EAST OF THE CENTERLINE OF GRAHAM ROAD AS RECORDED IN THE SECONDARY PLAT OF LINVILLE BUSINESS PARK, INSTRUMENT #2018-009566, PLAT CABINET E, SLIDE 320ABC IN THE OFFICE OF THE RECORDER OF JOHNSON COUNTY, INDIANA.</p>	
CSC TBM #1	ELEVATION 755.57
<p>CUT "X" ON TOP OF THE 24" CONCRETE CURB, NORTH SIDE OF LINVILLE WAY, 7.6 FEET WEST OF THE CENTER OF A CURB INLET, NORTHWEST OF LOT 2 IN LINVILLE BUSINESS PARK.</p>	
CSC TBM #2	ELEVATION 756.85
<p>CUT "X" ON TOP OF THE 24" CONCRETE CURB, NORTHEAST SIDE OF LINVILLE WAY, ABOUT THE MIDDLE OF THE 200-FOOT-RADIUS CURVE ON THE NORTHEAST SIDE OF LOT 2 IN LINVILLE BUSINESS PARK.</p>	

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GRADING PLAN



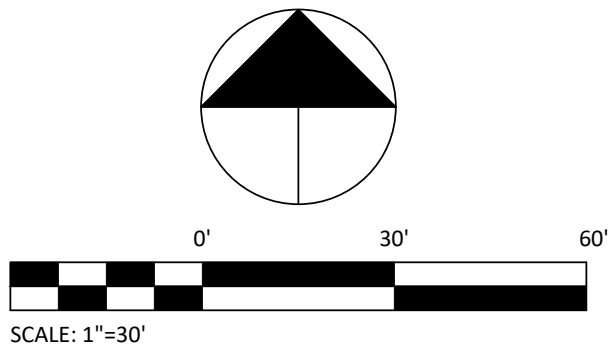
C300

PRINT DATE: 8/9/18 EDIT DATE: 8/9/18 7:37 AM EDITED BY: KHOLEYFIELD DRAWING FILE: Z:\PROJECTS\2018\003312_DESIGN\CAD\0033_C400\UTILITY PLAN.DWG PLOT SCALE: 1"=30'

STRUCTURE DATA TABLE				
STR. NO.	STRUCTURE AND CASTING TYPE	INVERT	SIZE	DIRECTION
STM STR - 100	18" END SECTION	750.00	18"	E
STM STR - 101	24" ADS2824 BASIN / ADS 2499CGS	750.39 750.39	18" 18"	E W
STM STR - 102	24" ADS2824 BASIN / ADS 2499CGS	752.04 752.04	18" 18"	E W
STM STR - 103	24" ADS2824 BASIN / ADS 2499CGS	753.12 753.12	8" 18"	N W
STM STR - 104	8" END SECTION	754.50	8"	S
STM STR - 200	18" END SECTION	750.00	18"	SE
STM STR - 201	TYPE C MH / R-2500	750.17 750.17	18" 18"	E NW

STRUCTURE DATA TABLE				
STR. NO.	STRUCTURE AND CASTING TYPE	INVERT	SIZE	DIRECTION
STM STR - 202	TYPE C MH / R-2500	751.29 751.29 751.29	18" 8" 18"	E N W
STM STR - 203	TYPE M INLET / R-3455-C	751.82 751.82	18" 18"	E W
STM STR - 204	TYPE C MH / R-4342	752.26 752.26	12" 18"	N W
STM STR - 205	12" END SECTION	753.00	12"	S
STM STR - 206	TYPE M INLET / R-3455-C	751.50	8"	S
STM STR - 300	36" END SECTION	750.00	36"	N
STM STR - 301	TYPE J MH / R-1772	750.06	36"	S

STRUCTURE DATA TABLE				
STR. NO.	STRUCTURE AND CASTING TYPE	INVERT	SIZE	DIRECTION
STM STR - 400	24" END SECTION	750.00	24"	S
STM STR - 401	TYPE L MH / R-4342	750.00 750.00 752.30 752.30	36" 24" 15" 15"	S N NE NW
STM STR - 402	15" END SECTION	752.30	15"	SW
STM STR - 403	15" END SECTION	752.30	15"	SE
STM STR - 404	36" END SECTION	749.90	36"	N



KEYNOTES

DRAINAGE/STORM

D1. 8" ROOF DRAIN CONNECTION (REFER TO MEP PLANS)

SANITARY

- S1. CONNECT TO EXISTING SANITARY MAIN WITH A CLEANOUT. VERIFY EX. SANITARY MAIN ELEVATION PRIOR TO WORK.
- S2. 6" PVC SDR-35 SANITARY SEWER @ MIN 1.1%
- S3. SANITARY SEWER CLEANOUT
- S4. SANITARY SEWER CONNECTION AT BUILDING (REFER TO MEP PLANS)

WATER

- W1. 2" DOMESTIC WATER CONNECTION. COORDINATE WITH INDIANA AMERICAN WATER FOR CONNECTION.
- W2. 8" FIRE SERVICE CONNECTION. COORDINATE WITH INDIANA AMERICAN WATER FOR CONNECTION.
- W3. 2" METER IN PIT
- W4. INDIANA AMERICAN WATER LONG SIDE VAULT WITH DCDA WITH FLANGED OS&Y GATE VALVE.
- W5. REMOTE FIRE DEPARTMENT CONNECTION. 4" DI PIPE.
- W6. 2" DOMESTIC WATER SERVICE
- W7. 8" FIRE PROTECTION SERVICE
- W8. DOMESTIC WATER CONNECTION AT BUILDING (REFER TO MEP PLANS)
- W9. FIRE PROTECTION SERVICE CONNECTION AT BUILDING (REFER TO MEP PLANS)

COMMUNICATIONS

- C1. 2-4" CONDUIT
- C2. COORDINATE CONNECTION WITH LOCAL UTILITY PROVIDER.

ELECTRIC

- E1. ELECTRIC TRANSFORMER PER LOCAL UTILITY PROVIDER STANDARDS.
- E2. ELECTRIC SERVICE
- E3. COORDINATE CONNECTION WITH LOCAL UTILITY PROVIDER.
- GAS
- G1. GAS METER. COORDINATE INSTALLATION WITH LOCAL UTILITY PROVIDER.
- G2. GAS SERVICE
- G3. COORDINATE CONNECTION WITH LOCAL UTILITY PROVIDER.

UTILITY LEGEND

	STORM SEWER LINE
	SANITARY SEWER LINE
	GAS LINE
	ELECTRIC LINE
	TELEPHONE LINE
	ROOF DRAIN
	WATER LINE
	VALVE
	WATER METER PIT
	HYDRANT
	CLEANOUT (STORM & SANITARY)



PER INDIANA STATE LAW IS-69-1991, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

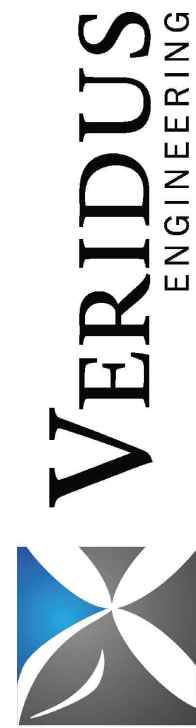
BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION PROVIDED BY CENTRAL STATES CONSULTING, LLC. PROJECT NUMBER 18-069, DATED 07/23/2018.

GENERAL NOTES

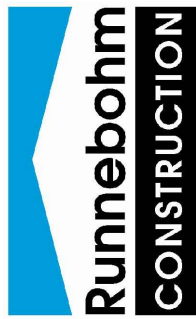
- IT SHALL BE THE SUBCONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO THE PHASE OF WORK. IT SHALL ALSO BE THE SUBCONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATION OF EACH UTILITY BEFORE WORK IS STARTED. EACH SUBCONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN FIELD BEFORE WORK IS STARTED OR RESUMED.
- ALL MATERIALS AND CONSTRUCTION FOR SANITARY SEWERS SHALL BE IN ACCORDANCE WITH THE TOWN OF BROWNSBURG STANDARDS AND SPECIFICATIONS.
- ALL MATERIALS AND CONSTRUCTION FOR STORM SEWERS SHALL BE IN ACCORDANCE WITH THE TOWN OF BROWNSBURG STANDARDS AND SPECIFICATIONS.
- ALL MATERIALS AND CONSTRUCTION FOR WATER MAINS SHALL BE IN ACCORDANCE WITH THE TOWN OF BROWNSBURG STANDARDS AND SPECIFICATIONS.
- ANY PART OF THE SANITARY OR STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVED AREAS TO BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL.
- TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
- ANY WATER MAINS TO HAVE 54" MINIMUM COVER OVER TOP OF PIPE.
- WATER SERVICE LINE TO THE BUILDING SHALL HAVE A SHUT-OFF VALVE IN AN ACCESSIBLE LOCATION OUTSIDE OF THE BUILDING. (APPLIES TO COMMERCIAL ONLY)
- SERIALIZATION OF WATER MAIN SHALL BE IN ACCORDANCE WITH STATE BOARD OF HEALTH.
- ALL UTILITY CROSSING AND CLEARANCES TO BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE INDIANA STATE BOARD OF HEALTH.
- IF EXISTING FIELD TILES ARE ENCOUNTERED DURING CONSTRUCTION THEY ARE TO BE TIED INTO THE PROPOSED STORM SEWER SYSTEM.

EXISTING LEGEND

LEGEND:	
	DESCRIPTION:
	SIGN / TWO POST SIGN
	WATER VALVE
	FIRE HYDRANT
	WATER METER
	GAS METER
	GAS VALVE
	CLEAN-OUT
	ELECTRIC METER BOX
	ELECTRIC TRANSFORMER
	ELECTRIC PEDESTAL
	GUARD POST
	AIR CONDITIONER UNIT
	LIGHT POLE ROUND
	REBAR SET/FOUND
	FLAT GRATE INLET
	COMBINATION POLE
	TELEPHONE PEDESTAL
	WOODEN LIGHT POLE
	LIGHT POLE SQUARE
	CONIFEROUS TREE & SIZE
	DECIDUOUS TREE & SIZE
	BUSH
	DRAINAGE MANHOLE
	SANITARY MANHOLE
	CURB INLET
	GROUND ACCENT LIGHT
	GUY WIRE
	UNDG. WATER LINE
	UNDG. GAS LINE
	UNDG. TELEPHONE LINE
	UNDG. ELECTRIC LINE
	OVERHEAD ELE. & TEL
	OVERHEAD ELE TEL & CAB
	OVERHEAD ELECTRIC
	vitrified clay pipe
	reinforced concrete pipe
	polyethylene coated pipe



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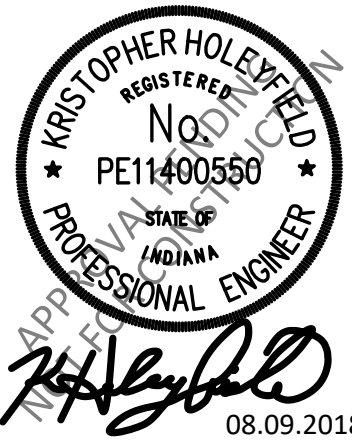
PROJECT
AIRTOMIC
LOT 2, LINVILLE WAY PLAT
FRANKLIN, IN

REVISIONS		
NO.	DATE	DESCRIPTION

ISSUE DATE: 08/09/2018
DRAWN BY: KMH
CHECKED BY: KMH

DRAWING TITLE

UTILITY PLAN



PROJECT NUMBER

2018.0033

DRAWING NUMBER

C400



EROSION CONTROL LEGEND

-

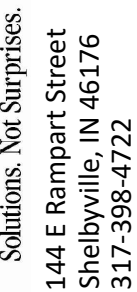
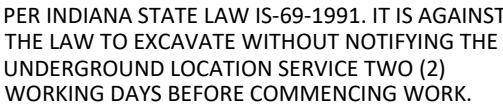
BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION
PROVIDED BY _____. PROJECT NUMBER _____
DATED _____.

GENERAL NOTES

1. LAND ALTERATIONS WHICH STRIPS THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
2. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
3. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY BY ON SITE INSPECTION.
4. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
5. SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN THE RECEIVING STREAM. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
6. WASTES AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORM WATER RUNOFF. PROPER DISPOSAL OF ALL WASTES AND UNUSED BUILDING MATERIALS IS REQUIRED.
7. SEDIMENT BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
8. SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE COLLECTED AND RE-DISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT, AND AT LEAST ONCE A WEEK.
9. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
10. ALL EXISTING STRUCTURES, FENCING TREES AND ETC. WITHIN CONSTRUCTION AREA SHALL BE REMOVED AND DISPOSED OF OFF SITE. BURNING IS NOT ALLOWED ON SITE.
11. THE SITE IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA AS INDICATED ON THE FLOOD INSURANCE RATE MAP FOR TIPPECANOE COUNTY, INDIANA PLAN 18157C0129D DATED SEPTEMBER 25, 2009.
12. SCHEDULE OF EARTHWORK ACTIVITIES:
 - A. THE DURATION OF THE TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE EXPOSED AREA SHALL BE STABILIZED AS SOON AS POSSIBLE. TEMPORARY VEGETATION OR MULCHING SHALL BE USED TO PROTECT EXPOSED AREAS WHEN ACTIVITY CEASES FOR MORE THAN 14 DAYS OR AS DIRECTED BY THE ENGINEER.
 - B. TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIMES OF THE YEAR FOR PERMANENT AND FINAL VEGETATION AND STRUCTURE EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING OR AS SOON AS POSSIBLE.
 - C. STOCKPILES SHALL BE LOCATED AS SHOWN. STOCKPILES SHALL HAVE SILT FENCE AROUND THE PERIMETER AND BE SEEDED IF IT IS UNDISTURBED FOR MORE THAN 14 CONSECUTIVE DAYS.

EXISTING LEGEND

BENCHMARK DATA



PROJECT
AIRTOOMIC

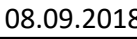
LOT 2, LINVILLE WAY PLAT
FRANKLIN, IN

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ISSUE DATE: 08/09/2018	
DRAWN BY KMH	CHECKED BY KMH

DRAWING TITLE

EROSION CONTROL PLAN



PROJECT NUMBER
2018.0033

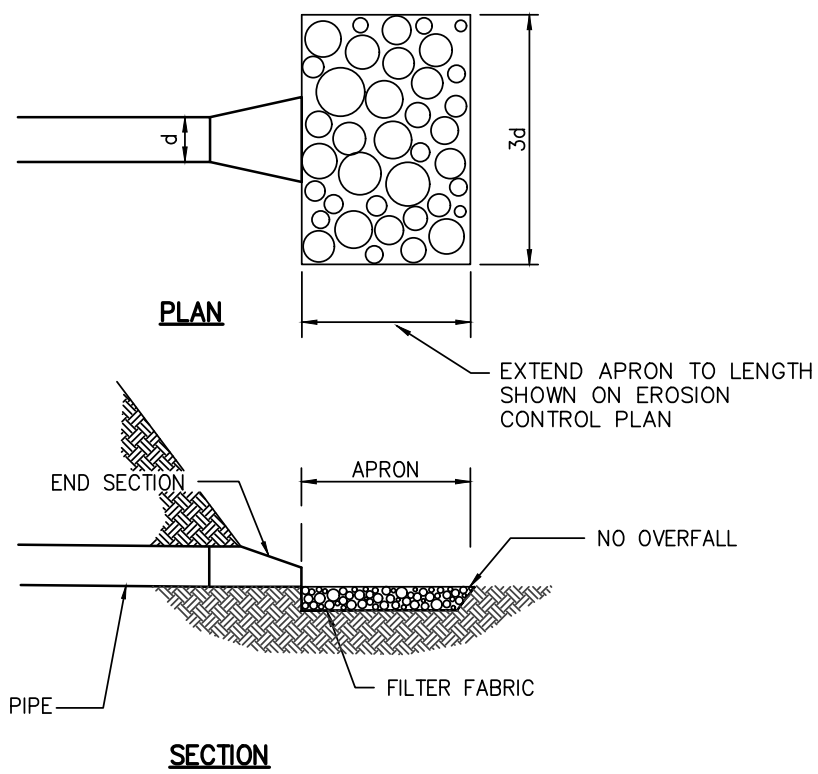
DRAWING NUMBER

C500

PRINT DATE: 8/9/18
PLOT SCALE: 1/2"=5'-0"
EDIT DATE: 8/9/18 - 7:34 AM
EDITED BY: KHOLEYFIELD
DRAWING FILE: Z:\PROJECTS\2018\083312_DSGN\CAD\003312_CE_C501.ECD.DWG

EROSION CONTROL NOTES:

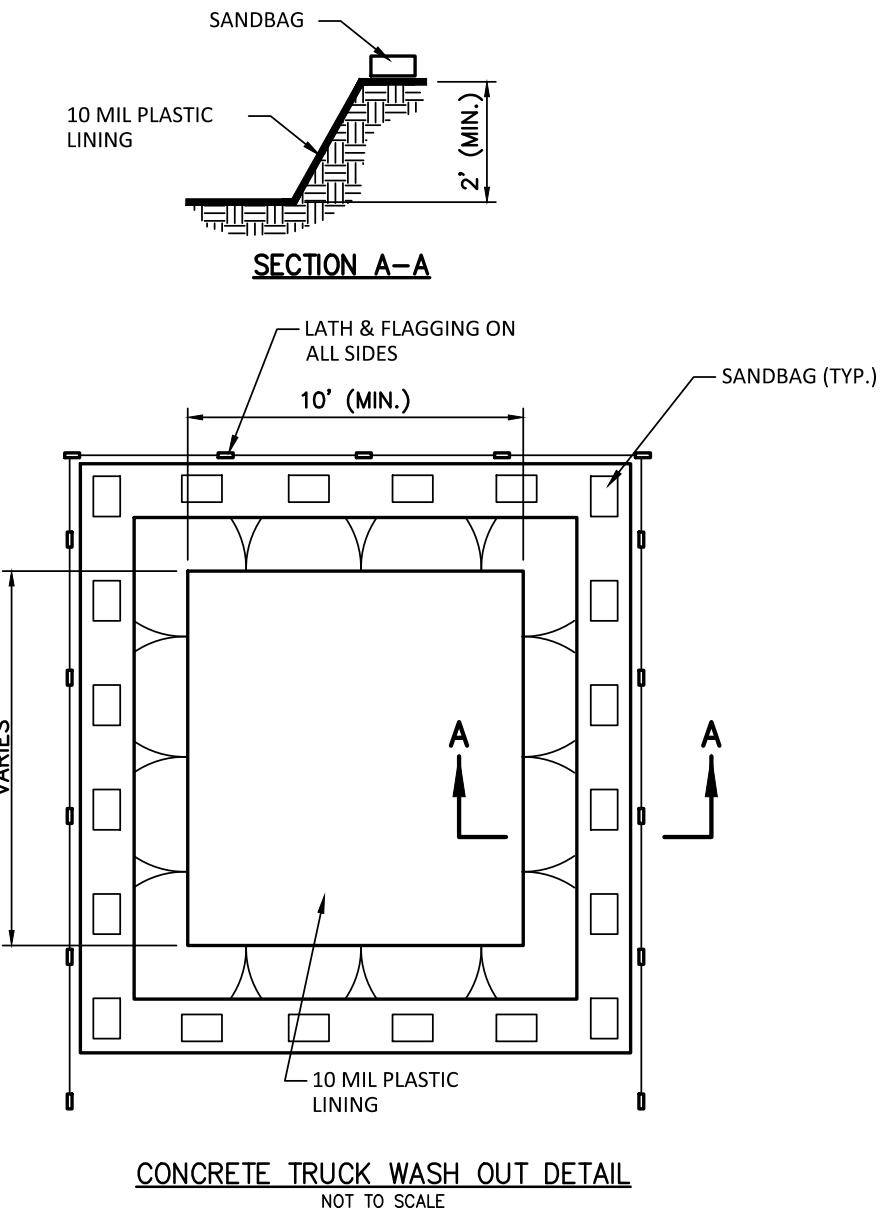
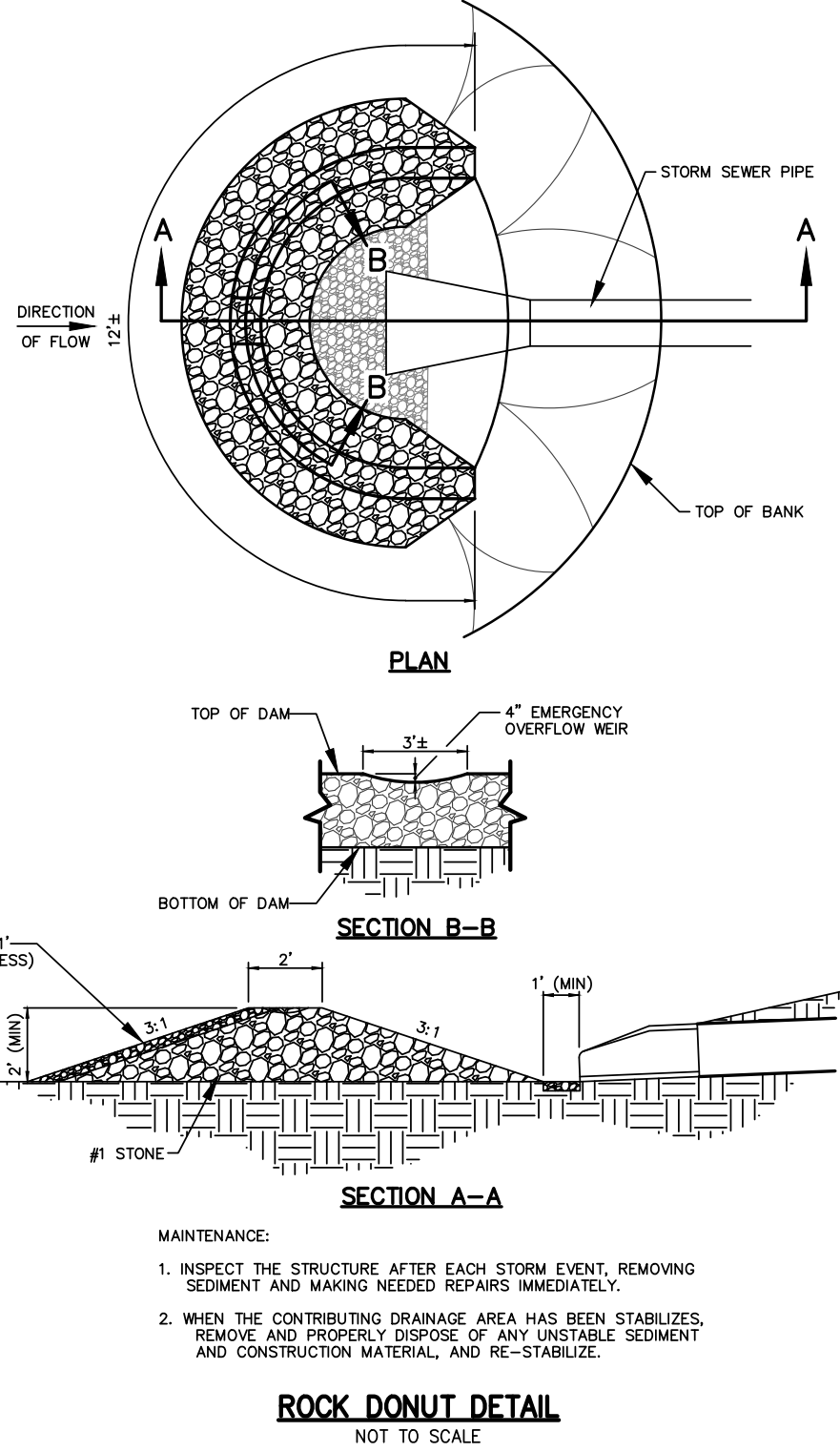
- CONSTRUCTION ACTIVITY SHALL CONSIST OF UTILITIES, DRAINAGE SWALES AND DETENTION BASIN.
- PRELIMINARY CONSTRUCTION SCHEDULE: EARTHWORK SHALL BEGIN IN THE FALL (2017). INSTALLATION OF STORM DRAINAGE STRUCTURES SHALL BEGIN IN THE FALL OF (2017). COMPLETION OF THE PROJECT IS ANTICIPATED IN (2019). THIS SCHEDULE IS SUBJECT TO CHANGE.
- LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
- CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
- THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
- SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN THE RECEIVING STREAM. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
- WASTES AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORM WATER RUNOFF. PROPER DISPOSAL OF ALL WASTES AND UNUSED BUILDING MATERIALS IS REQUIRED.
- SEDIMENT BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
- SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE COLLECTED AND RE-DISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT, AND AT LEAST ONCE A WEEK.
- IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
- EXISTING VEGETATION SHALL BE PRESERVED IN AREAS NOT DISTURBED BY CONSTRUCTION ACTIVITY.
- THERE ARE NO BORROW AREAS OTHER THAN THOSE DESIGNATED.
- ALL APPLICABLE EROSION CONTROL MEASURES SHALL BE PLACED BEFORE ANY LAND DISTURBING ACTIVITIES.
- SCHEDULE OF EROSION CONTROL ACTIVITIES:
 - INSTALL INLET PROTECTION AROUND INLETS IMMEDIATELY UPON COMPLETION OF THE STRUCTURE. REMOVE INLET PROTECTION FOR PAVING OPERATION. REPLACE INLET PROTECTION AFTER PAVING IS COMPLETE. INLET PROTECTION SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED ON SEEDED AREAS BEHIND THE CURB.
 - THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED AS SOON AS POSSIBLE. TEMPORARY VEGETATION OR MULCHING SHALL BE USED TO PROTECT EXPOSED AREAS IF PERMANENT VEGETATION CANNOT BE SEED WITHIN 14 DAYS OR ACTIVITY CEASES FOR MORE THAN 21 DAYS OR AS DIRECTED BY THE ENGINEER.
 - TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIMES OF THE YEAR. PERMANENT AND FINAL VEGETATION AND STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING OR AS SOON AS POSSIBLE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FILING A NOTICE OF INTENT WITH THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.
- APPLY FERTILIZER AT A RATE ADEQUATE TO PROVIDE 1 LB. OF ACTUAL NITROGEN PER 1,000 SQUARE FEET. USE COMMERCIAL-GRADE COMPLETE FERTILIZER OF NEUTRAL CHARACTER CONSISTING OF FAST AND SLOW RELEASE NITROGEN, 50 PERCENT DERIVED FROM NATURAL ORGANIC SOURCES OF UREA-FORM, PHOSPHOROUS, AND IN FOLLOWING COMPOSITION:
 - FERTILIZER FOR LAWNS: PROVIDE A FAST RELEASE FERTILIZER WITH A COMPOSITION OF 1 LB PER 1,000 SQ. FT. OF ACTUAL NITROGEN, 4 PERCENT PHOSPHOROUS, AND 2 PERCENT POTASSIUM BY WEIGHT.
 - SLOW-RELEASE FERTILIZER FOR TREES AND SHRUBS: GRANULAR FERTILIZER CONSISTING OF 50 PERCENT WATER-INSOLUBLE NITROGEN, PHOSPHOROUS AND POTASSIUM MADE UP OF A COMPOSITION BY WEIGHT OF 5 PERCENT.
- ADD LIME TO TOPSOIL TO OBTAIN A pH RANGE OF 6.0 TO 7.0. LIME SHALL BE ASTM C 602, CLASS T, AGRICULTURAL LIMESTONE CONTAINING A MINIMUM OF 80 PERCENT CALCIUM CARBONATE EQUIVALENT, WITH A MINIMUM 99 PERCENT PASSING A NO. 8 (2.36 mm) SIEVE AND A MINIMUM 75 PERCENT PASSING A NO. 50 (250 MICROMETER) SIEVE.
- CONSTRUCTION TRAFFIC SHALL ENTER THE SITE AT THE GRAVEL CONSTRUCTION ENTRANCE AS SHOWN ON SHEET C-400.
- CONTRACTOR TO SEED ALL DISTURBED AREAS. FINISH GRADE TO BE SEED AND STRAW.
- CONTRACTOR SHALL MONITOR TRUCK WASHING AND SEDIMENT TRACKING ONTO STREETS. STREET CLEANING WILL BE REQUIRED BY OWNER, CITY OF FRANKLIN OR THE JOHNSON COUNTY MS4 DISTRICT IF ROADWAYS HAVE SOIL FROM THE SITE TRACKED ONTO THEM.
- THERE SHALL BE NO DIRT, DEBRIS OR STORAGE OF MATERIALS IN THE STREET.
- PORTABLE TOILETS MUST BE ANCHORED



NOTES:

- FOUNDATION SHALL BE GEOTEXTILE FABRIC FOR STABILIZATION AND WELL-GRADED FILTRATION OR GRAVEL FILTER LAYER AT LEAST 6 IN. THICK
- STONE SHALL BE HARD, ANGULAR, AND HIGHLY WEATHER-RESISTANT RIPRAP STONE AT A THICKNESS OF 12 IN. MINIMUM OR TWO TIMES THE STONE DIAMETER, WHICHEVER IS GREATER.
- MAKE SURE THE TOP OF THE RIPRAP APRON IS LEVEL WITH OR SLIGHTLY BELOW THE RECEIVING STREAM. (RIPRAP SHOULD NOT RESTRICT THE CHANNEL OR PRODUCE AN OVERFALL).

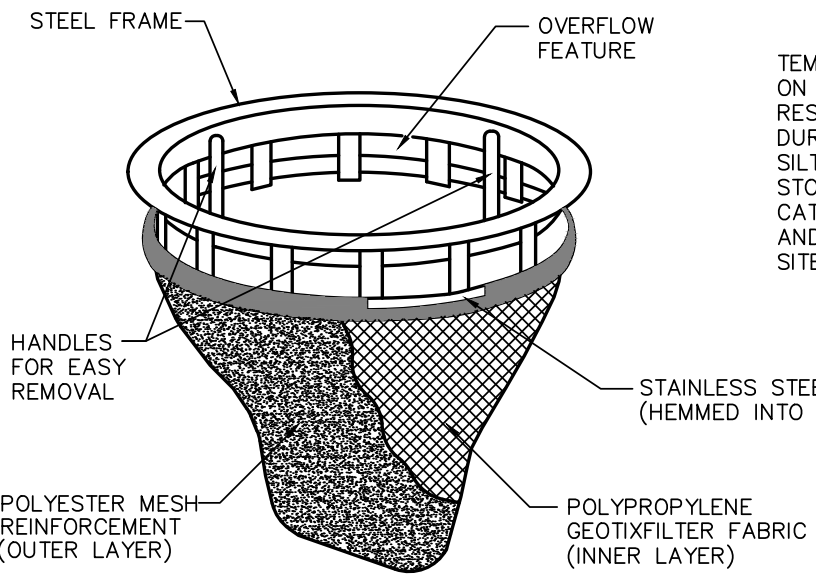
OUTLET PROTECTION DETAIL
NOT TO SCALE



- LOCATE WASH OUT AREA AT LEAST 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR BODIES OF WATER. DO NOT ALLOW RUNOFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH FOR LIQUID AND SOLID WASTE.
- TEMPORARY WASH OUT FACILITIES SHOULD HAVE A TEMPORARY PIT AREA OF SUFFICIENT VOLUME TO COMPLETELY CONTAIN ALL LIQUID AND SOLID WASTE CONCRETE MATERIALS GENERATED DURING WASH OUT PROCEDURES.
- ONLY CONCRETE FROM MIXER TRUCK CHUTES SHOULD BE WASHED INTO WASH OUT PIT. PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
- THE CONCRETE WASHOUT AREA SHALL BE INSPECTED DAILY FOR PUNCTURES OR TEARS IN THE PLASTIC LINER. THE LINER SHALL BE REPLACED UPON REMOVAL OF HARDENED CONCRETE.
- TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 12 INCHES FOR BELOW GRADE FACILITIES. MAINTAINING TEMPORARY CONCRETE WASH OUT FACILITIES SHOULD INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND RETURNING THE FACILITY TO A FUNCTIONAL CONDITION. HARDENED CONCRETE MATERIALS SHOULD BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH LOCAL STANDARDS.
- CONCRETE WASHOUT AREAS SHALL BE CLEARLY MARKED WITH LATH & FLAGGING AND A SIGN POSTED AND LABELED "CONCRETE WASHOUT". LATH & FLAGGING SHOULD BE COMMERCIAL TYPE.
- THE CONCRETE WASH OUT AREA SHALL BE REPAIRED AND/OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
- WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL. 10. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF AT AN APPROVED SITE.

CATCH - ALL
STORMWATER INLET PROTECTOR

THE CATCH-ALL IS AN INLET AND CATCH BASIN FILTRATION DEVICE DEVELOPED TO PREVENT SEDIMENTATION. CATCH-ALLS ARE AVAILABLE TO FIT VIRTUALLY ANY DRAINAGE STRUCTURE CASTING, AND COULD REPRESENT A BEST MANAGEMENT PRACTICE FOR YOUR EPA PHASE 2 PROGRAM.



TEMPORARY INSTALLATION: CONSTRUCTION PROJECTS ON HIGHWAYS AND NEW HOUSING DEVELOPMENTS CAN RESULT IN SUBSTANTIAL AMOUNTS OF SEDIMENT DURING A RAINSTORM. TRADITIONAL PRACTICE, USING SILT SCREENS, HAY BALES, AND FILTER FABRIC UNDER STORM GRATES PROVIDE ONLY LIMITED PROTECTION. CATCH-ALL WILL HOLD 2 CUBIC FEET OF GRAVEL, SILT, AND DEBRIS, AND CAN BE MOVED FROM SITE-TO SITE.

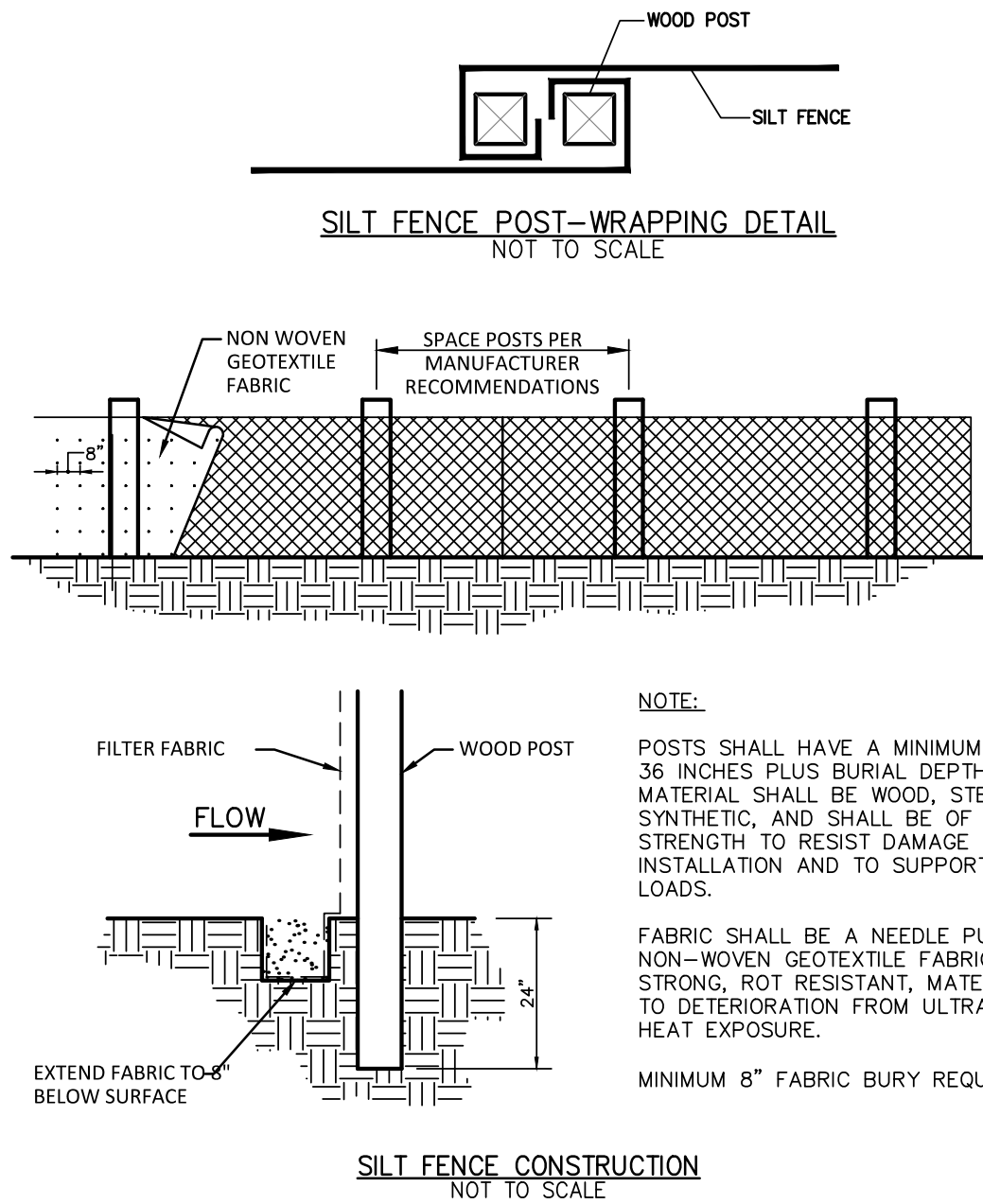
CATCH-ALL HAS BEEN APPROVED FOR USE ON MANY MOT ROAD CONSTRUCTION PROJECTS.

PERMANENT INSTALLATION:

COMMERCIAL AND INDUSTRIAL SITES WITH IMPERVIOUS SURFACES, SUCH AS ROADS AND PARKING LOTS, PRODUCE STORMWATER RUN-OFF THAT MAY INCLUDE PAPER REFUSE, CIGARETTES, SEDIMENT, AND EVEN SOME FLOATING OILS. THESE CONTAMINANTS CAN QUICKLY ADD UP TO A SIGNIFICANT AMOUNT IN CATCH BASINS OR MUNICIPAL SYSTEMS. WITHOUT PROPER TREATMENT, STORMWATER LADEN WITH SUCH MATERIALS CAN POLLUTE STREAMS, LAKES, AND NEAR-SHORE WATERS. THE UNIQUE DESIGN OF THE REUSABLE STEEL FRAME OF CATCH-ALL PROVIDES AN OVERFLOW CAPACITY GREATER THAN THE OPEN AREA OF THE GRATE IT FITS UNDER. THIS MEANS LITTLE CHANCE FOR WATER TO BACK UP OR POOL, EVEN BETWEEN SCHEDULED CLEANNINGS. THE DURABLE, REINFORCED SEDIMENT BAG CAN BE CLEANED NUMEROUS TIMES AND IS EASILY REPLACED IN THE FIELD. THE ENTIRE UNIT IS INSTALLED BELOW GRADE AND NO REBAR, CLIPS, OR STRAPS ARE EXPOSED ON THE SURFACE. WITH A TOP FLANGE LESS THAN 1/8" THICK, THE ADDITIONAL HEIGHT EXPOSURE OF THE GRATE IS MINIMAL. CATCH-ALL CAN BE AN IMPORTANT SUPPLEMENT FOR CATCH BASINS AND UNDERGROUND STORMWATER STORAGE SYSTEMS THAT ARE USUALLY DIFFICULT TO ACCESS FOR CLEANING. CATCH-ALLS ARE AVAILABLE TO FIT VIRTUALLY ANY DRAINAGE STRUCTURE CASTING.

D2 LAND & WATER RESOURCE INC.

P.O. BOX 20792
INDIANAPOLIS, IN 46220
PHONE (317) 917-2180
FAX (317) 917-2181
TOLL FREE (800) 597-2180
www.d2lwr.com



SILT FENCE INSTALLATION REQUIREMENTS:

SITE PREPARATION:

- PLAN FOR THE FENCE TO BE AT LEAST 10 ft. FROM THE TOE OF THE SLOPE TO PROVIDE A SEDIMENT STORAGE AREA.
- PROVIDE ACCESS TO THE AREA IF SEDIMENT CLEANOUT WILL BE NEEDED.

OUTLET CONSTRUCTION (OPTIONAL):

- DETERMINE THE APPROPRIATE LOCATION FOR A REINFORCED, STABILIZED BYPASS FLOW OUTLET (UNLESS THE FENCE IS DESIGNED TO RETAIN ALL RUNOFF FROM A 2 YEAR FREQUENCY, 24 HR DURATION STORM EVENT)
- SET THE OUTLET ELEVATION SO THAT WATER DEPTH CANNOT EXCEED 1 1/2 ft. AT THE LOWEST POINT ALONG THE FENCE LINE.
- LOCATE THE OUTLET WEIR SUPPORT POSTS NO MORE THAN 4 ft. APART, AND INSTALL A HORIZONTAL BRACE BETWEEN THEM. (WEIR HEIGHT SHOULD BE NO MORE THAN 1 ft. DEEP, 5 ft. WIDE, AND 3 ft. LONG ON LEVEL GRADE)
- EXCAVATE THE FOUNDATION FOR THE OUTLET SPLASH PAD TO MINIMUMS OF 1 ft. AND WATER DEPTH NO MORE THAN 1 1/2 ft. ANYWHERE ELSE ALONG THE FENCE.)
- FILL THE EXCAVATED FOUNDATION WITH INDOT CA NO. 1 STONE, BEING CAREFUL THAT THE FINISHED SURFACE BLENDS WITH THE SURROUNDING AREA, ALLOWING NO OVERFILL.
- STABILIZE THE AREA AROUND THE PAD.

FENCE CONSTRUCTION:

- ALONG THE ENTIRE INTENDED FENCE LINE, DIG AN 8 in. DEEP FLAT-BOTTOMED OR V-SHAPED TRENCH
- ON THE DOWNSIDE SLOPE OF THE TRENCH, DRIVE THE WOOD OR STEEL SUPPORT POSTS AT LEAST 1 ft. INTO THE GROUND (THE DEEPER THE BETTER), SPACING THEM NO MORE THAN 8 ft. APART IF THE FENCE IS SUPPORTED BY WIRE OR 6 ft. IF EXTRA-STRENGTH FABRIC IS USED WITHOUT SUPPORT WIRE. ADJUST SPACING, IF NECESSARY, TO ENSURE THAT POSTS ARE SET AT THE LOW POINTS ALONG THE FENCE LINE. (NOTE: IF THE FENCE HAS PRE-ATTACHED POSTS OR STAKES, DRIVE THEM DEEP ENOUGH SO THE FABRIC IS SATISFACTORILY IN THE TRENCH AS DESCRIBED IN STEP 6).
- FASTEN SUPPORT WIRE FENCE (IF THE MANUFACTURER RECOMMENDS ITS USE) TO THE UPSLOPE SIDE OF THE POSTS, EXTENDING IT 8 in. INTO THE TRENCH.
- RUN A CONTINUOUS LENGTH OF GEOTEXTILE FABRIC IN FRONT (UPSLOPE) OF THE SUPPORT WIRE AND POSTS, AVOIDING JOINTS, PARTICULARLY AT LOW POINTS IN THE FENCE LINE.
- IF A JOINT IS NECESSARY, NAIL THE OVERLAP TO THE NEAREST POST WITH LATH.
- PLACE THE BOTTOM 1 ft. OF FABRIC IN THE 8 in. DEEP TRENCH, EXTENDING THE REMAINING 4 in. TOWARD THE UPSLOPE SIDE.
- BACKFILL THE TRENCH WITH COMPACTED EARTH OR GRAVEL.

NOTE: IF USING A PRE-PACKED COMMERCIAL SILT FENCE RATHER THAN CONSTRUCTING ONE, FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

SILT FENCE MAINTENANCE REQUIREMENTS:

- INSPECT THE SILT FENCE PERIODICALLY AND AFTER EACH STORM EVENT.
- IF FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
- REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT OR IS CAUSING THE FABRIC TO BULGE.
- TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEAN OUT.
- AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED REMOVE THE FENCE AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE.

SEASONAL SOIL PROTECTION CHART

STABILIZATION PRACTICE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING		A				/ / / / / / / / / / / /			/ /			
DORMANT SEEDING	B										B	
TEMPORARY SEEDING		C					D					

A = KENTUCKY BLUEGRASS 100 LBS./ACRE; CREEPING RED FESCUE 100 LBS./ACRE; HYDROSEEDING
B = KENTUCKY BLUEGRASS 120 LBS./ACRE; CREEPING RED FESCUE 120 LBS./ACRE; HYDROSEEDING
C = SPRING OATS 3 BUSHELS/ACRE
D = WHEAT OR RYE 2 BUSHELS/ACRE
E = ANNUAL RYE GRASS 40 LBS./ACRE (1 LB/1000 SQ. FT.)
*/ / * = IRRIGATION NEEDED DURING JUNE, JULY, AUGUST AND/OR SEPTEMBER



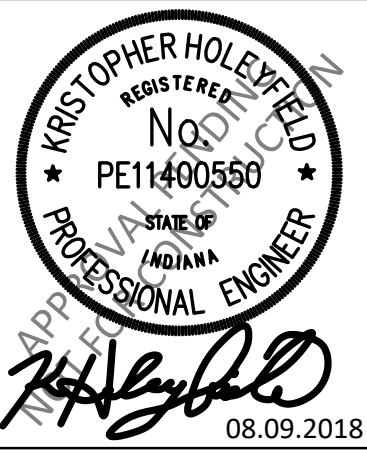
PROJECT
AIRTOMIC
LOT 2, LINVILLE WAY PLAT
FRANKLIN, IN

REVISIONS		
NO.	DATE	DESCRIPTION

ISSUE DATE: 08/09/2018
DRAWN BY: KMH
CHECKED BY: KMH

DRAWING TITLE

EROSION
CONTROL
DETAILS



08.09.2018

PROJECT NUMBER

2018.0033

DRAWING NUMBER

C501

PRINT DATE: 8/9/18
PLOT SCALE: 1/2"=30'-0"
DRAWING NO: 2018.0033
DRAWING TITLE: STORM WATER POLLUTION PREVENTION PLAN
DRAWING DATE: 8/9/18
DRAWING BY: KMH
CHECKED BY: KMH
DATE: 8/9/18

SITE NAME The area scheduled for construction is known as "Franklin Airtomic" (hereinafter referred to as the "2018.0033").	
PROJECT LOCATION The property is located at Linville Way, between Commercial Parkway and Co. Rd. 250 E in Franklin, Indiana, at a latitude of 39°30'31" N and a longitude of 86°03'06" W.	
PROJECT ACREAGE Total Acreage: 5.00 Acres Proposed Land Disturbance: XXXX Acres Total Impervious Surface Area: 99,390 Square Feet	
OWNER'S INFORMATION Name: X Address: X Representative: X Title: X Telephone: X	
OPERATOR'S INFORMATION Name: Runnebohm Construction Address: 144 East Rampart Street, Shelbyville, IN 46176 Representative: Christopher King Title: Executive Vice President Telephone: (317) 631-1955	
NOTICE OF INTENT All parties defined as owners or operators must submit a Notice of Intent (NOI) at least 48 hours prior to commencement of on-site construction activities. Submittal of late NOI's is not prohibited; however, authorization under the construction general permit is only for discharges that occur after permit coverage is granted. Unpermitted discharges may be subject to enforcement actions by the EPA. For the purposes of this permit, an operator is defined as any party meeting either of the following requirements: a) The party has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications. b) The party has day-to-day operational control of those activities at a project that are necessary to ensure compliance with a stormwater pollution prevention plan for the site or other permit conditions.	
A2 11" x 17" PLAT Refer to the Site Plan.	
A3 PROJECT NARRATIVE The project will consist of the construction of a new 30,00 sf building with access drive, docks and parking. Including expansion capabilities for both the building and the parking.	
A4 VICINITY MAP Refer to Title Sheet	
A5 LEGAL DESCRIPTION OF THE PROJECT SITE Refer to Title Sheet	
A6 LOCATION OF ALL LOTS AND PROPOSED SITE IMPROVEMENTS The site will not be subdivided; therefore, there are no individual lots on the property. The proposed site improvements are shown on the included plans.	
A7 HYDROLOGIC UNIT CODE (HUC) HUC-14: 05120204090040	
A8 STATE AND FEDERAL WATER QUALITY PERMITS NO STATE NOR FEDERAL WATER QUALITY PERMITS ARE REQUIRED.	
A9 SPECIFIC POINT WHERE STORMWATER DISCHARGE WILL LEAVE THE SITE STORMWATER DRAINAGE FROM THE SITE WILL BE CONVEYED BY A PROPOSED STORM SEWER TO PROPOSED DRY DETENTION FACILITIES ALONG THE WEST SIDE OF THE SITE. THE DRY DETENTION FACILITIES WILL DISCHARGE TO YOUNGS CREEK - RAY CREEK ALONG THE SOUTH EDGE OF THE PROJECT SITE.	
A10 LOCATION AND NAME OF ALL WETLANDS, LAKES, AND WATERCOURSES ON AND ADJACENT TO THE SITE NO WETLANDS, LAKES OR WATERCOURSES HAVE BEEN IDENTIFIED ON THE SITE THAT MAY BE IMPACTED BY STORMWATER DISCHARGES AS A RESULT OF THE PROPOSED CONSTRUCTION ACTIVITIES.	
A11 IDENTIFICATION OF ALL RECEIVING WATERS XXXXX River is the ultimate receiving water for the project area.	
A12 IDENTIFICATION OF ALL POTENTIAL DISCHARGES TO GROUND WATER There are no locations on site where surface water may be discharged into ground water.	
A13 100-YEAR FLOODPLAINS, FLOODWAYS, AND FLOODWAY FRINGES The lot is located in an unshaded Zone "X" (areas determined to be outside the 0.2 percent annual chance floodplain) as indicated on the Johnson County, Indiana, Flood Insurance Rate Map 18081C0143D dated AUGUST 1, 2018.	
A14 PRE-CONSTRUCTION AND POST-CONSTRUCTION ESTIMATE OF PEAK DISCHARGE Pre-construction 10-year discharge: XXXX cfs Post-construction 10-year discharge: XXXX cfs	
A15 ADJACENT LAND USE North: Agricultural East: Industrial South: Industrial West: Industrial	
A16 LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS Approximate boundaries of disturbed areas are as identified on the Erosion Control Plan.	
A17 IDENTIFICATION OF EXISTING VEGETATIVE COVER Approximate areas of existing vegetative cover are as shown on the existing topography sheets.	
A18 SOILS MAP INCLUDING SOIL DESCRIPTION AND LIMITATIONS The Natural Resources Conservation Service (NRCS) Web Soil Survey of XXXX County, Indiana, indicates (LIST SOIL TYPES) are located on the site. The on-site soil will be treated as recommended by the geotechnical engineer if the conditions are unsuitable for the proposed construction. Remedial treatments may include, but are not limited to, removal of unsuitable soil and backfilling with engineered material, installation of a geofabric within or under the pavement system, or treatment of the subgrade with lime.	
A19 LOCATIONS, SIZE, AND DIMENSIONS FOR PROPOSED STORMWATER SYSTEMS Locations of stormwater systems: Refer to the Utility Plan or Storm Sewer Plan and Profiles Size of storm sewer: Refer to the Utility Plan or Storm Sewer Plan and Profiles Details of storm inlets and manholes: Refer to Site Details	
A20 PLANS FOR ANY OFF-SITE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT No off-site construction activities will take place for this project.	
A21 LOCATIONS OF PROPOSED SOIL STOCKPILES AND/OR BORROW/DISPOSAL Excess soil shall be immediately stockpiled, surrounded with silt fence and seeded and/or removed from the construction site in accordance with all applicable laws. If topsoil stockpiles are anticipated for this project, they are shown on the Erosion Control Plan.	
A22 EXISTING SITE TOPOGRAPHY Refer to the Existing Topography Plan	
A23 PROPOSED FINAL SITE TOPOGRAPHY Refer to the Grading Plan	
B1 DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES The following potential pollutant sources may be associated with construction activities on site: 1. Material storage areas (more specifically described below) 2. Construction waste material 3. Fuel storage areas and fueling stations 4. Exposed soils 5. Leaking vehicles and equipment 6. Sanitary waste from temporary toilet facilities 7. Litter 8. Windblown dust 9. Soil tracking off site from construction equipment The following construction materials may be staged or stored on site at various points during development of the site: 1. Structural fill 2. Pavement Base Stone 3. HDPE, PVC, RCP or Ductile Iron pipe 4. Precast concrete, HDPE or PVC drainage and sanitary structures 5. Rock rip-rap B2 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE TO LAND-DISTURBING ACTIVITIES 1. Schedule pre-construction meeting with local stormwater authority. 2. Install construction entrance. 3. Utilize the gravel construction entrance for installation of the perimeter silt fence. Add stone if needed. Post the NOI at the entrance. Add protection measures to existing inlets. 4. Install staging area, fueling station, material storage area and concrete truck washout. 5. Strip the top soil and grade. 6. Complete the cut and fills on the site. Final grade and seed the pond slopes. Install check dams or stabilize the slopes with erosion control blankets. 7. Prior to building construction install stone surface for paved areas. 8. Building pads left dormant for more than 15 days, must be temporarily seeded. 9. Start building construction. Install staging area for building materials. 10. Install storm sewer and other utilities. Provide inlet protection immediately upon completion of the inlet and install riprap outlet protection prior to installing outlets. Final grade and stabilize slopes when inlets are functioning. 11. Seed the perimeter of the site. 12. Complete utility installation, curbs, paving and building construction. 13. Install landscaping plant material and stabilize all disturbed areas. 14. Remove all erosion and sediment control practices when areas have a uniform grass cover. B3 STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS Construction entrances will be in place prior to any site construction or demolition. Entrances are shown on the Erosion Control Plan, refer to the Erosion Control Details for details. B4 SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS Sheet flow areas will be protected by seed and mulch or hydrosseeding. Erosion control blankets will be installed on sloped areas where the slope exceeds 6:1 (horizontal to vertical). Silt Fencing will be utilized to prevent sedimentation from leaving the site. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details. B5 SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS Proposed swales will be stabilized with erosion control blankets, and rock donuts will be installed to slow runoff to inlets. Straw bales and silt fences will not be allowed as concentrated flow protection measures. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details. B6 STORM SEWER INLET PROTECTION MEASURE LOCATIONS AND SPECIFICATIONS The contractor shall install appropriate inlet protection measures at each inlet. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details. Straw bales will not be allowed as inlet protection measures. B7 RUNOFF CONTROL MEASURES Site runoff control measures will include perimeter silt fence and outlet control runoff control measures will include outlet protection described below. B8 STORMWATER OUTLET PROTECTION SPECIFICATIONS Stormwater outlets will be protected by riprap aprons to prevent scour erosion. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details. B9 GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS Rip rap aprons at outlets will be utilized to prevent grade destabilization. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details. B10 LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE Refer to the Erosion Control Plan for locations of each stormwater quality measure and the Erosion Control Details. B11 TEMPORARY SURFACE STABILIZATION METHODS APPROPRIATE FOR EACH SEASON Surface stabilization is required on any bare or thinly vegetated area that is scheduled or likely to remain inactive for a period of 15 days or more. Refer to the Temporary Seeding Detail within Erosion Control Details for specifics on soil amendments, seed mixtures and mulching. B12 PERMANENT SURFACE STABILIZATION SPECIFICATIONS A. Loosen lawn area to a minimum depth of 6 inches. Mix soil amendments and fertilizers with topsoil at rates specified. Organic soil amendments such as peat, compost or manure shall be applied at 2" depth evenly over soil and incorporated into the top 6" of topsoil. Provide fertilizer with percentage of nitrogen required to provide not less than 1 pound of actual nitrogen per 1,000 sq. ft. of lawn area and not less than 4 percent phosphoric acid and 2 percent potassium. At least 50 percent of nitrogen to be organic form. Delay mixing of fertilizer if planting will not follow planning of planting soil within a few days. B. Fertilizer for lawns: provide a fast release fertilizer with a composition of 1 lb per 1,000 sq. ft. of actual nitrogen, 4 percent phosphorous, and 2 percent potassium by weight. C. Slow-release fertilizer for trees and shrubs: granular fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorous and potassium made up of a composition by weight of 5 percent D. Grade lawn and grass areas to a smooth, even surface with loose, uniformly fine texture. Limit fine grading to areas that can be planted within immediate future. Remove trash, debris, stones larger than 1 inch diameter, and other objects that may interfere with planting or maintenance operations. Sow seed using a spreader or seeding machine. Do not seed when wind velocity exceeds 5 miles per hour. E. Distribute seed evenly over entire area by sowing equal quantity in 2 directions at right angles to each other. F. Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with a fine spray. G. Install erosion control blankets as indicated on the plan. H. Protect seeded areas against erosion by spreading clean, seed-free straw mulch after completion of seeding operations. Spread uniformly to form a continuous blanket not less than 1-1/2 inches loose measurements over seeded areas. I. Water newly planted lawn areas and keep moist until new grass is established. Immediately repair any lawn areas disturbed by construction activities including tree and shrub installation. J. Refer to the Permanent Seeding Details within the Erosion Control Detail Sheet, for timing of permanent seeding, grass seed specifications and mulching specifications. B13 MATERIAL HANDLING AND SPILL PREVENTION PLAN Solid Waste Disposal No solid material, including building materials, is permitted to be discharged to surface waters or buried on site. All solid waste materials, including disposable materials incidental to the construction activity, must be collected in containers or closed dumpsters. The collection containers must be emptied periodically and the collected material hauled to a landfill permitted by the State and/or appropriate local municipality to accept the waste for disposal. A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper solid waste procedures. Hazardous Waste Whenever possible, minimize the use of hazardous materials and generation of hazardous wastes. All hazardous waste materials will be disposed in the manner specified by federal, state, or local regulations or by the manufacturer. Use containment berms in fueling and maintenance areas and where potential for spills is high. A foreman or supervisor should be designated in writing to oversee, enforce and instruct construction workers on proper hazardous waste procedures. The location of any hazardous waste storage areas should be indicated on the stormwater pollution prevention plan by the operator following on-site location of the facility. Dust Control/Off-Site Vehicle Tracking During construction, water trucks should be used, as needed, by each contractor or subcontractor to reduce dust. After construction, the site should be stabilized to reduce dust. Construction traffic should enter and exit the site at a Construction Entrance with a rock pad or equivalent device. The purpose of the rock pad is to minimize the amount of soil and mud that is tracked onto existing streets. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts. Sanitary/Septic Contractors and subcontractors must comply with all state and local sanitary sewer, portable toilet, or septic system regulations. Sanitary facilities shall be provided at the site by each contractor or subcontractor throughout construction activities. The sanitary facilities should be utilized by all construction personnel and be serviced regularly. All expenses associated with providing sanitary facilities are the responsibility of the contractors and subcontractors. The location of any sanitary facilities should be indicated on the stormwater pollution prevention plan by the operator following on-site location of said facilities. Water Source Water used to establish and maintain grass, to control dust, and for other construction purposes must originate from a public water supply or private well approved by the State or local health department. Equipment Fueling and Storage Areas Equipment fueling, maintenance, and cleaning should only be completed in protected areas (i.e., bermed area). Leaking equipment and maintenance fluids will be collected and not allowed to discharge onto soil where they may be washed away during a rain event. Equipment wash down (except for wheel washes) should take place within an area surrounded by a berm. The use of detergents is prohibited. Hazardous Material Storage Chemicals, paints, solvents, fertilizers, and other toxic or hazardous materials should be stored in their original containers (if original container is not resealable, store the products in clearly labeled, waterproof containers). Except during application, the containers should be kept in trucks or in bermed areas within covered storage facilities. Runoff containing such materials shall be collected, removed from the site, and disposed of in accordance with the federal, state, and local regulations. As may be required by federal, state or local regulations, the Contractor should have a Hazardous Materials Management Plan and/or Hazardous Materials Spill and Prevention Program in place. A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper hazardous materials storage and handling procedures. The location of any hazardous material storage areas should be indicated on the stormwater pollution prevention plan by the operator following on-site location of the storage areas. Material Handling and Spill Prevention Discharge of hazardous substances or oil into stormwater is subject to reporting requirements. In the event of a spill of a hazardous substance, the operator is required to notify the National Response Center (1-800-424-8802) to properly report the spill. In addition, the operator shall submit a written description of the release (including the type and amount of material released, the date of the release, the circumstances of the release, and the steps to be taken to prevent future spills) to the local governing authority. The SWPPP must be revised within 14 calendar days after the release to reflect the release, stating the information above along with modifications to minimize the possibility of future occurrences. Each contractor and subcontractor is responsible for complying with these reporting requirements. Concrete Washout All concrete trucks waste material shall be completely contained and disposed in accordance with all local, state, and federal regulations. A pit or container is required when cleaning concrete chutes. Spill Response Plan Minor - Small spills that typically involve oil, gasoline, paint, hydraulic fluid, etc., can be controlled by the first responder at the discovery of the spill. <ul style="list-style-type: none">Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.Use absorbent material to clean-up spill material and any subsequently contaminated soil and dispose of properly. Semi-Significant Spills - Approximately ten gallons or less of pollutant with no contamination of ground or surface waters. Minor spills can be generally controlled by the first responder with help from other site personnel. This response may require other operations to stop to make sure the spill is quickly and safely addressed. At the discovery of the spill: <ul style="list-style-type: none">Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.Use absorbent material to clean-up spills and dispose of properly. Spills on impervious surfaces should be disposed of as soon as possible to prevent migration deeper into the soil and groundwater. Dispose of contaminated soils or absorbents properly.Contact 911 if the spill could be a safety issue.Contact supervisors and designated site inspectors immediately.Contaminated solids are to be removed to an approved landfill. Major or Hazardous Spills - More than ten gallons, there is the potential for death, injury or illness to humans or animals, or has the potential for surface or groundwater pollution. <ul style="list-style-type: none">Control or contain the spill without risking bodily harm. Temporarily plug storm drains if possible to prevent migration of the spill into the stormwater system.Immediately contact the local Fire Department at 911 to report any hazardous material spill.Contact supervisors and designated site inspectors immediately. Governing authorities responsible for storm water facilities should be contacted as well. The contractor is responsible for having these contact numbers available at the job site. A written report should be submitted to the owner as soon as possible.As soon as possible but within 2 hours of discovery, contact the local agency responsible for spill management. The following information should be noted for future reports to the agency:<ul style="list-style-type: none">Name, address and phone number of person making the spill reportThe location of the spillThe time of the spillIdentification of the spilled substanceApproximate quantity of the substance that has been spilled or may be further spilledThe duration and source of the spillName and location of the damaged watersName of spill response organizationWhat measures were taken in the spill responseOther information that may be significant Additional regulations or requirements may be present. A spill response professional should be consulted to make sure all appropriate and required steps have been taken. Contaminated solids should only be removed from the site after approval is given by the appropriate agency. B14 MONITORING AND MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE Inspection Schedule/Reporting All impacted areas, as well as all erosion and sediment control devices, will be inspected every seven (7) calendar days and within 24 hours after a rainfall of 0.5 inch or greater. Where sites have been final or temporarily stabilized or on sites where runoff is unlikely due to winter conditions (e.g., site is covered with snow, ice, or frozen ground exists), such inspections shall be conducted at least once every month. Inspections shall be conducted and a written report prepared, by a designated and qualified person familiar with the USEPA NPDES Storm Water General Permit, this SWPPP, and the Project. Inspection reports shall be completed including scope of the inspection, name(s) and qualifications of personnel making the inspection, the date of the inspection, observations relating to the implementation of the SWPPP, and any actions taken as a result of incidents of noncompliance noted during the inspection. The inspection report should state whether the site was in compliance or identify any incidents of noncompliance. The contractor shall keep a copy of the inspection reports on site and permanently for a period of two years following construction. The on-site reports may be requested by inspections conducted by the local governing authority. Construction Entrance Locations where vehicles exit the site shall be inspected for evidence of off-site sediment tracking. Each contractor and subcontractor shall be responsible for maintaining the Construction Entrance and other controls as described in this SWPPP. Material Storage Inspections Inspectors must evaluate areas used for storage of materials that are exposed to precipitation. The purpose is to ensure that materials are protected and/or impounded so that pollutants cannot discharge from storage areas. Off-site material storage areas used solely by the subject project are considered to be part of the project and must be included in the erosion control plans and the site inspection reports. Soil Stabilization Inspections Seeded areas will be inspected to confirm that a healthy stand of vegetation is maintained. The site has achieved final stabilization once all areas are covered with pavement or have a stand of vegetation with at least 70% of the background vegetation density. The density of 70% or greater must be maintained to be considered as stabilized. The operator or their representative will water, fertilize, and reseed disturbed areas as needed to achieve this goal. Erosion and Sediment Control Inspections All controls should be inspected at least once every seven (7) calendar days and following any storm event of 0.5 inch or greater. The following is a list of inspection/maintenance practices that will be used for specific controls: 1. Geotextiles/Erosion Control Mats: Missing or loose matting must be replaced or re-anchored. 2. Inlet Protection: If silt fence inlet protection is to be used, sediment should be removed when it reaches approximately one-half the height of the fence. If a sump is used, sediment should be removed when the volume of the basin is reduced by 50%. 3. Diversion Swales: Clean debris or other obstructions as needed. Damage from storms or normal construction activities (i.e., tire ruts) shall be repaired immediately. 4. Mulching: Inspect for thin or bare spots caused by natural decomposition or weather-related events. Mulch in high traffic areas should be replenished on a regular basis to maintain uniform protection. 5. Sediment Trap: Accumulated silt shall be removed and the basin shall be re-graded to its original dimensions at such point that the capacity of the impoundment has been reduced to one-half of its original storage capacity. The removed sediment shall be stockpiled or redistributed in areas that are protected from erosion. 6. Sediment Basin: Inspect frequently to check for damage and to ensure obstructions are not diminishing the effectiveness of the structures. Sediment shall be removed and the basin shall be re-graded to its original dimensions at such point that the capacity of the impoundment has been reduced to 20% of its original storage capacity. The removed sediment shall be stockpiled or redistributed in areas that are protected from erosion. 7. Silt Fence: Removal of built-up sediment will occur when the sediment reaches one-third the height of the fence. 8. Stabilized Construction Entrance: Periodic re-grading and top dressing with additional stone. 9. Straw Bales: Replace straw bales that show signs of deterioration. 10. Vegetation: Protect newly seeded areas from excessive runoff and traffic until vegetation is established. Establish a watering and fertilizing schedule. 11. Good Housekeeping: Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges through screening of outfalls and daily pickup of litter. In the event that sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize adverse impacts. An example of this may be the situation where sediment has washed into the street and could be carried into the storm sewers by the next rainfall and/or pose a safety hazard to users of public streets. Modifications/Revisions to SWPPP. Based on inspection results, any necessary modification to this SWPPP shall be implemented within seven calendar days of the inspection. A modification is necessary if a control measure or operational procedure does not provide adequate pollutant control. All revisions shall be recorded on a Record of Revisions within seven calendar days of the inspection. It is the responsibility of the operator to maintain effective pollutant discharge controls. Physical site conditions or contractor/subcontractor practices could make it necessary to install more controls than were originally planned. For example, localized concentrations of surface runoff or unusually steep areas could require additional silt barrier or other structural controls. Assessing the need for and installing additional controls will be a continuing contractor/subcontractor responsibility until final stabilization is achieved. Contractors and subcontractors implementing this SWPPP must remain alert to the need to periodically refine and update this SWPPP in order to accomplish the intended goals. Notice of Termination Compliance of the site with the General Construction Permit remains the responsibility of all operators that have submitted an NOI until such time as they have submitted a Notice of Termination (NOT). The permittee's authorization to discharge under the General Construction Permit terminates at midnight of the day the NOT is signed. All permittees must submit an NOI within thirty (30) days after one or more of the following conditions have been met: 1. Final stabilization has been achieved on all portions of the site for which the permittee was responsible. 2. Another operator/permittee has assumed control over all areas of the site that have not been finally stabilized. 3. In residential construction operations, temporary stabilization has been completed and the residence has been transferred to the homeowner. B15 EROSION AND SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL BUILDING LOTS Since the entire site is under a single ownership, there are not any individual building lots. C1 DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE The proposed land use is Industrial. The pollutants and sources of each pollutant normally expected from this type of land use are listed below: Pollutant Source: Passenger vehicles, delivery vehicles. Type of Pollutant: Oil, gasoline, diesel fuel, any hydrocarbon associated with vehicular fuels and lubricants, grease, antifreeze, windshield cleaner solution, brake fluid, brake dust, rubber, glass, metal and plastic fragments, grit, road de-icing materials. Pollutant Source: Building Type of Pollutant: Cleaning solutions or solvents, leaks from HVAC equipment, grit from roof drainage, aggregate or rubber fragments from roofing system. Pollutant Source: Trash dumpster Type of Pollutant: Cleaning solutions or solvents, litter (paper, plastic, general refuse associated with distribution operations), uneaten food products, bacteria. Pollutant Source: Parking lot Type of Pollutant: Any pollutant associated with vehicular sources, grit from asphalt wearing surface, bituminous compounds from periodic maintenance (sealing, resurfacing and patching), pavement de-icing materials, paint fragments from parking stall stripes, concrete fragments, wind-blown litter from off-site sources, elevated water temperatures from contact with impervious surfaces. Pollutant Source: Lawn and landscape areas Type of Pollutant: Fertilizers, soil, organic material (leaves, mulch, grass clippings) C2 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION The stormwater detention ponds will remain in place as permanent features after construction is completed. The purpose of these measures is to restrict stormwater discharges and provide a sediment removal function. C3 DESCRIPTION OF PROPOSED POST-CONSTRUCTION STORMWATER QUALITY MEASURES Dry Detention Basin Basins collect, temporarily hold, and gradually release excess storm water from storm events. Detention is achieved through the use of an outlet structure that regulates the rate of storm water outflow. Good Housekeeping Measures Good Housekeeping measures such as regular street sweeping, installation of trash receptacles, and reduction in fertilizer overspray can be incorporated by the owner and/or occupant. C4 LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE The following items are stormwater quality measures that will be installed during construction. These items will remain in place after construction is completed and are considered to serve an incidental function as post-construction stormwater quality BMPs. Refer to the Grading Plan for the location and dimensions of the dry detention basin. Refer to the Erosion Control Details and Site Details for specifications and details of the dry detention basins. C5 DESCRIPTION OF MAINTENANCE GUIDELINES FOR POST-CONSTRUCTION STORMWATER QUALITY MEASURES Maintenance requirements for the stormwater quality measures which will remain in place after construction is complete, are described below. Refer to the BMP Operations and Maintenance Manual for more detailed maintenance requirements. Detention Ponds (Wet or Dry) Inspect periodically as needed or at least every six months. Sediment shall be disposed of off site in accordance with all applicable laws. Areas that show sign of erosion shall be stabilized with erosion control blanket and/or seed as necessary.	



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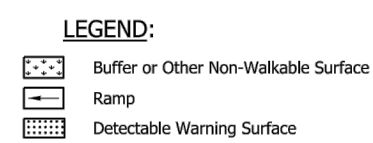
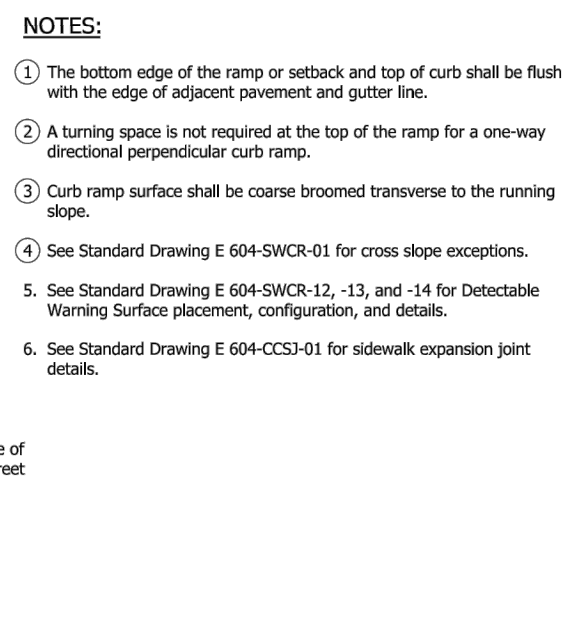
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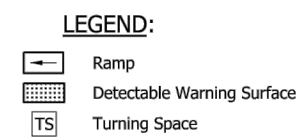
LOT 2, LINVILLE WAY PLAT
FRANKLIN, IN

REVISIONS		
NO.	DATE	DESCRIPTION
ISSUE DATE: 08/09/2018		
DRAWN BY KMH	CHECKED BY KMH	
DRAWING TITLE		
STORM WATER POLLUTION PREVENTION PLAN		
 <div>08.09.2018</div>		
PROJECT NUMBER		
2018.0033		
DRAWING NUMBER		
C590		




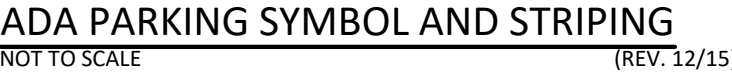
NOTES:

- 1 The bottom edge of the turning space and top of curb shall be flush with the edge of adjacent pavement and gutter line.
- 2 The turning space shall have a minimum clear dimension of 4 ft x 4 ft and a running slope of 2.00% maximum. Where the turning space is constrained at the side of the sidewalk, the minimum clear dimension shall be 3 ft x 3 ft, with the 3-ft dimension in the direction of the ramp running slope.
- 3 Curb ramp surface shall be coarse broomed transverse to the running slope.
- 4 Where there is no buffer between the sidewalk and curb, the preferred minimum sidewalk width is 6 ft. Where a buffer is placed between the sidewalk and curb, the preferred minimum sidewalk width is 5 ft. See Standard Drawing Series 60A-SDWK for sidewalk details.
- 5 See Standard Drawing E 60A-SWCR-01 for cross slope exceptions.
- 6 See Standard Drawing E 60A-SWCR-12, -13, and -14 for Detectable Warning Surface placement, configuration, and details.
- 7 See Standard Drawing E 60A-CSSJ-01 for sidewalk expansion joint details.



- NOTES:
 - 1. Detectable warning surface shall consist of truncated domes. Domes shall be aligned in a square or rectangular pattern with diameter and center-to-center spacing within the ranges specified.
 - 2. The detectable warning surface may be field cut. Truncated dome spacing between adjacent panels shall be within the ranges specified.
 - 3. The detectable warning surface shall contrast visually with adjacent surfaces, either light-on-dark or dark-on-light.
 - 4. The detectable warning surface shall extend a minimum of 2 ft in the direction of pedestrian travel and extend the full width as shown. The detectable warning surface shall not be placed across a grade break.
 - 5. The maximum counter slope of the gutter or street at the bottom of the ramp shall be 5.00%. The maximum slope difference between the running slope and the counter slope exceeds 11%, a 2:1 minimum level strip should be provided at the bottom of the ramp.
 - 6. Where a concrete border is used for forming, the border shall be cast monolithically with the curb ramp concrete. The concrete border shall not extend into the ramp width on either side of the ramp.
 - 7. Where forming other than a concrete border is used, the edges restrain shall not encroach upon the ramp width.

INDIANA DEPARTMENT OF TRANSPORTATION	
DETECTABLE WARNING SURFACE DETAILS	
SEPTEMBER 2018	
STANDARD DRAWING NO.	E 604-SWCR-14
	<i>/s/ Elizabeth W. Phillips</i> 03/29/19 DESIGN STANDARDS ENGINEER DATE <i>/s/ John Locke</i> 04/25/19 CHIEF ENGINEER DATE

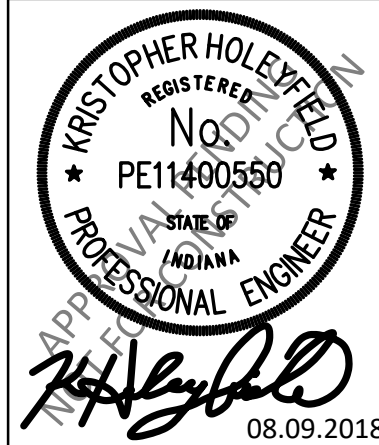


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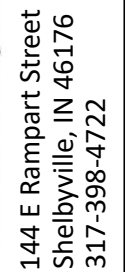
2018.0033

DRAWING NUMBER



1. Plant material to be installed and maintained by a qualified and experienced landscape installer.
2. All materials are subject to the approval of the Landscape Architect and Owner at any time. Landscape Architect to inspect all plant locations and plant bed conditions prior to installation. Stake all plant locations for review and approval by the Landscape Architect before planting. On-site adjustments may be required. Plants are to be freshly dug. Transporting of plants shall be done in a manner as to not destroy the natural shape, compromise the health, or alter the characteristics of plant materials.
3. Rootballs shall meet or exceed size standards as set forth in 'American Standards for Nursery Stock'. MAIN LEADERS OF ALL TREES SHALL REMAIN INTACT. Remove from the site any plant material that turns brown or defoliates within five (5) days after planting. Replace immediately with approved, specified material.
4. Plant counts indicated on drawings are for Landscape Architect's use only. Contractor shall make own plant quantity takeoffs using drawings, specifications, and plant schedule requirements (i.e., spacing), unless otherwise directed by Landscape Architect. Contractor to verify bed measurements and install appropriate quantities as governed by plant spacing per schedule.
5. All plant beds shall receive 3" minimum of genuine shredded hardwood bark mulch (unless otherwise noted). Apply pre-emergent herbicide as directed by the manufacturer prior to installing mulch. Seed all areas disturbed by construction activities that are not otherwise noted to receive pavement, planting bed, or other treatment.
6. The Contractor shall install and/or amend topsoil in all proposed bed areas to meet ASTM D5268 standards. Landscape shall verify depth and quality of topsoil prior to plant installation. A minimum of 4" of topsoil is required for lawn areas; 12" for plant beds. Topsoil sources shall include the reuse of surface soil stockpiled on site, clean of roots, plants, sod, stones, clay lumps, and other extraneous or foreign materials larger than 1". Supplement with imported topsoil from off-site sources when quantities are insufficient. Do not obtain supplemental topsoil from agricultural land, bogs, or marshes. Inorganic amendments, organic amendments, and fertilizers shall be used to amend topsoil as needed for long-term plant health.
7. Verify all utility locations in the field prior to beginning work. Repair all damaged utilities to satisfaction of the Owner and Operating Authority at no additional cost.
8. Install all plant material in accordance with all local codes and ordinances. Coordinate with the Owner to obtain any required permits necessary to complete work. All workmanship and materials shall be guaranteed by the Contractor for a period of one (1) calendar year after Final Acceptance.
9. Maintain all plant material for a three (3) month period from date of Substantial Completion. Maintenance shall include pruning, cultivating, watering, weeding, fertilizing, restoring plant saucers, spraying for disease and insects, and replacing tree wrappings. Recommended long-term maintenance procedures shall be provided to the Owner before expiration of this period.
10. Satisfactory Seeded Lawn: At end of maintenance period, a healthy, uniform, close stand of grass has been established, free of weeds and surface irregularities, with coverage exceeding 90 percent over any 10 sq. ft. (0.92 sq. m) and bare spots not exceeding 3 by 3 inches. Reestablish lawns that do not comply with requirements and continue maintenance until lawns are fully satisfactory to the Owner.

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PROJECT

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LOT 2, LINVILLE WAY PLAT
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ISSUE DATE: 08/09/2018	
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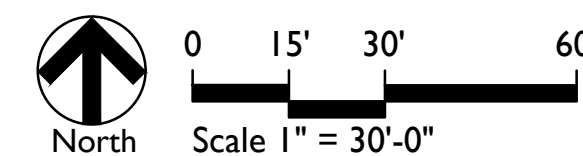
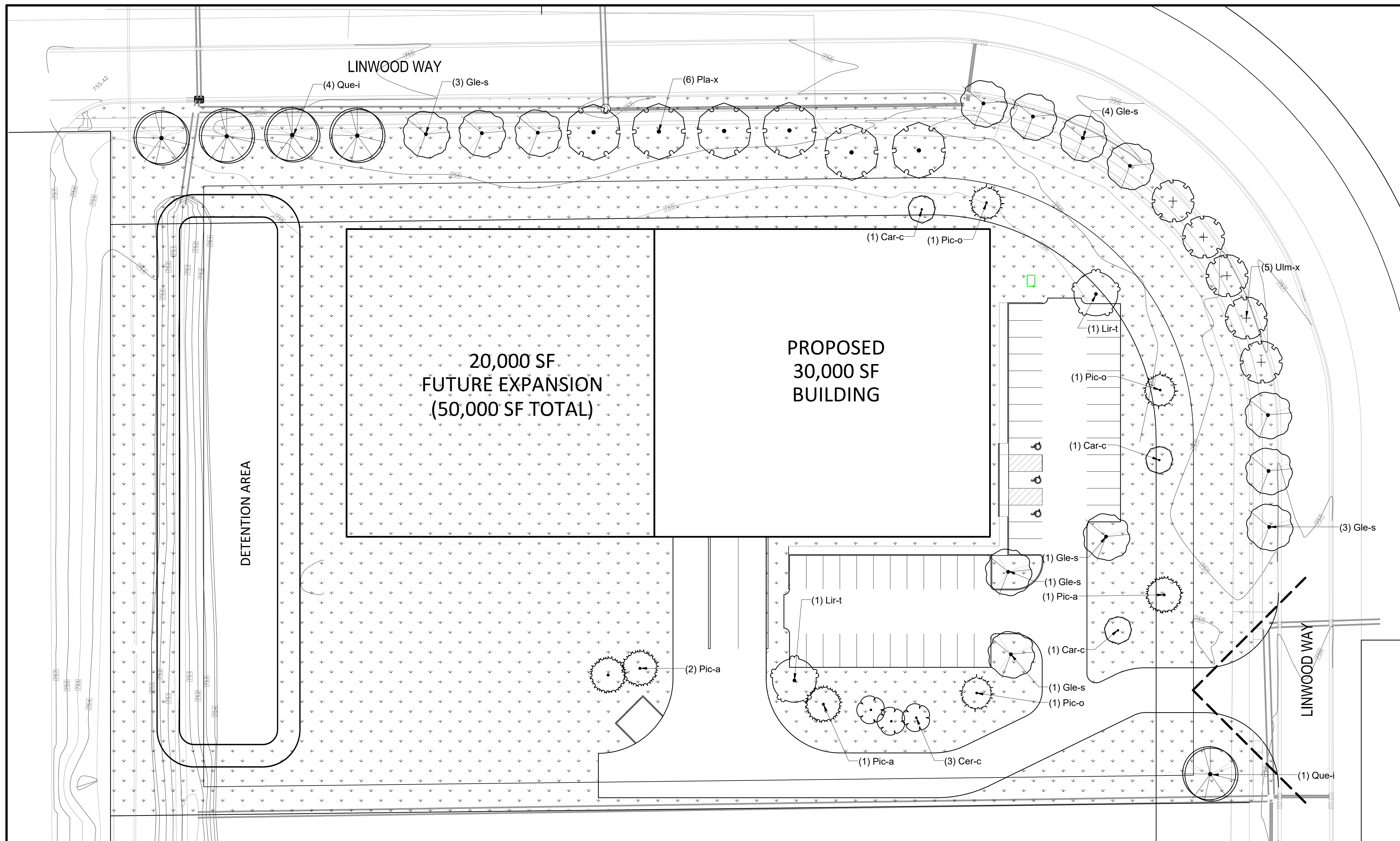
LANDSCAPE PLAN



PROJECT NUMBER
2018.0033

DRAWING NUMBER

L100



ORDINANCE CHART

ZONING: IL (*Industrial, Light*)

PROPERTY INTERIOR REQUIREMENTS - 5 acres/217,800 s.f.

Requirements: 15% open space minimum; 1 tree /5000 s.f. of REQUIRED yard area

Required: 32,670 s.f. of open space; 7 trees
 Provided: 55,419 s.f. of open space + 11 trees

PARKING LOT PERIMETER

Requirements: 10' of parking edge facing recommended streets; no vegetation is required for IL zoning

PARKING LOT INTERIOR - 30,229 s.f. paved surface

Requirement: 5% of total paved surface (min. 300 s.f./island); 1 tree/300 s.f.

Required: 1,512 s.f. of required landscape islands; 5 trees

Provided: 1,476 s.f. landscape islands + 5 trees

BUFFER YARDS - Adjacent parcels zoned the same, no buffer requirements

STREET TREES

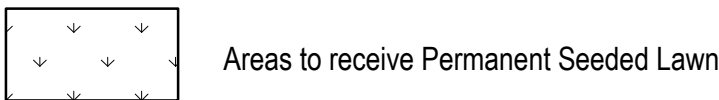
Requirement: 1 tree/35 l.f. (evenly spaced or clustered) in ROW or within 5' of ROW

Required: Linville Way: 907 l.f. = 26 trees (by Town of Franklin)

Provided: Linville Way: 26 trees, approximate locations (by Town of Franklin)

PLANT SCHEDULE						
TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	REMARKS
Car-c	3	Carpinus caroliniana	American Hornbeam	B & B	2.5"Cal	full, strong central leader, matched
Cer-c	3	Cercis canadensis	Eastern Redbud	B & B	8' ht.	multi-trunk, matched
Lir-t	2	Liriodendron tulipifera	Tulip Tree	B & B	2.5"Cal	full, strong central leader, matched
Pic-a	4	Picea abies	Norway Spruce	B & B	min. 6' ht.	full, strong central leader, matched, symmetrical
Pic-o	3	Picea omorika	Serbian Spruce	B & B	min. 6' ht.	full, strong central leader, matched, symmetrical

STREET TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	REMARKS
Gle-s	13	Gleditsia triacanthos inermis 'Shademaster'	Shademaster Thornless Honeylocust	B & B	2.5"Cal	full, strong central leader, matched PROVIDED BY CITY OF FRANKLIN
Pla-x	6	Platanus x acerifolia	London Plane Tree	B & B	2.5"Cal	full, strong central leader, matched PROVIDED BY CITY OF FRANKLIN
Que-i	5	Quercus imbricaria	Shingle Oak	B & B	2.5"Cal	spring dug, full, strong central leader, matched PROVIDED BY CITY OF FRANKLIN
Ulm-x	5	Ulmus x 'Frontier'	American Elm	B & B	2.5"Cal	full, strong central leader, matched PROVIDED BY CITY OF FRANKLIN



ORDINANCE CHART

ZONING: IL (*Industrial, Light*)

PROPERTY INTERIOR REQUIREMENTS - 5 acres/217,800 s.f.

Requirements: 15% open space minimum; 1 tree /5000 s.f. of REQUIRED yard area

Required: 32,670 s.f. of open space; 7 trees

Provided: 55,419 s.f. of open space + 11 trees

PARKING LOT PERIMETER

Requirements: 10' of parking edge facing recommended streets; no vegetation is required for IL zoning

PARKING LOT INTERIOR - 30,229 s.f. paved surface

Requirement: 5% of total paved surface (min. 300 s.f./island); 1 tree/300 s.f.

Required: 1,512 s.f. of required landscape islands; 5 trees

Provided: 1,476 s.f. landscape islands + 5 trees

BUFFER YARDS - Adjacent parcels zoned the same, no buffer requirements

STREET TREES

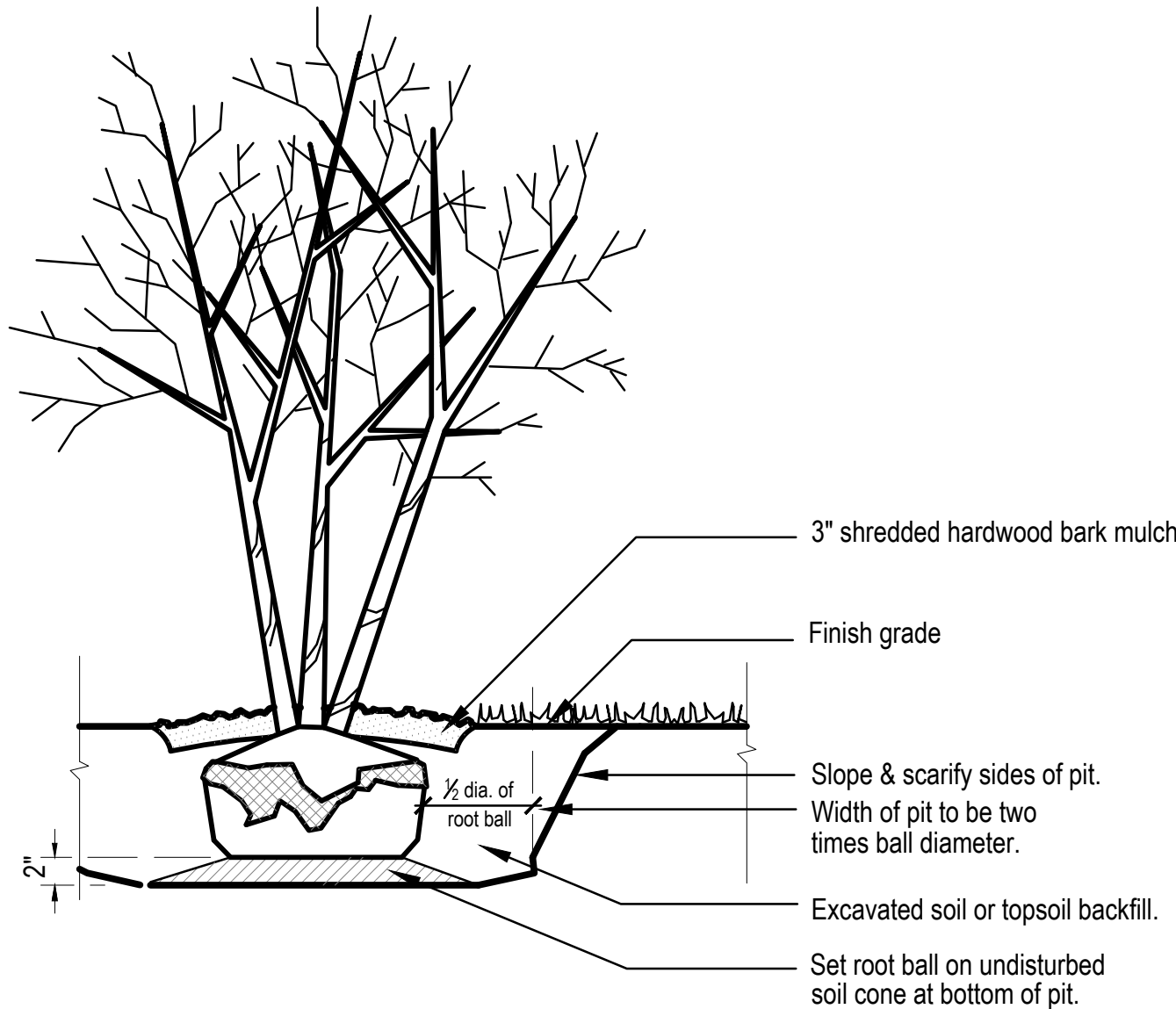
Requirement: 1 tree/35 l.f. (evenly spaced or clustered) in ROW or within 5' of ROW

Required:

Linville Way: 907 l.f. = 26 trees (by Town of Franklin)

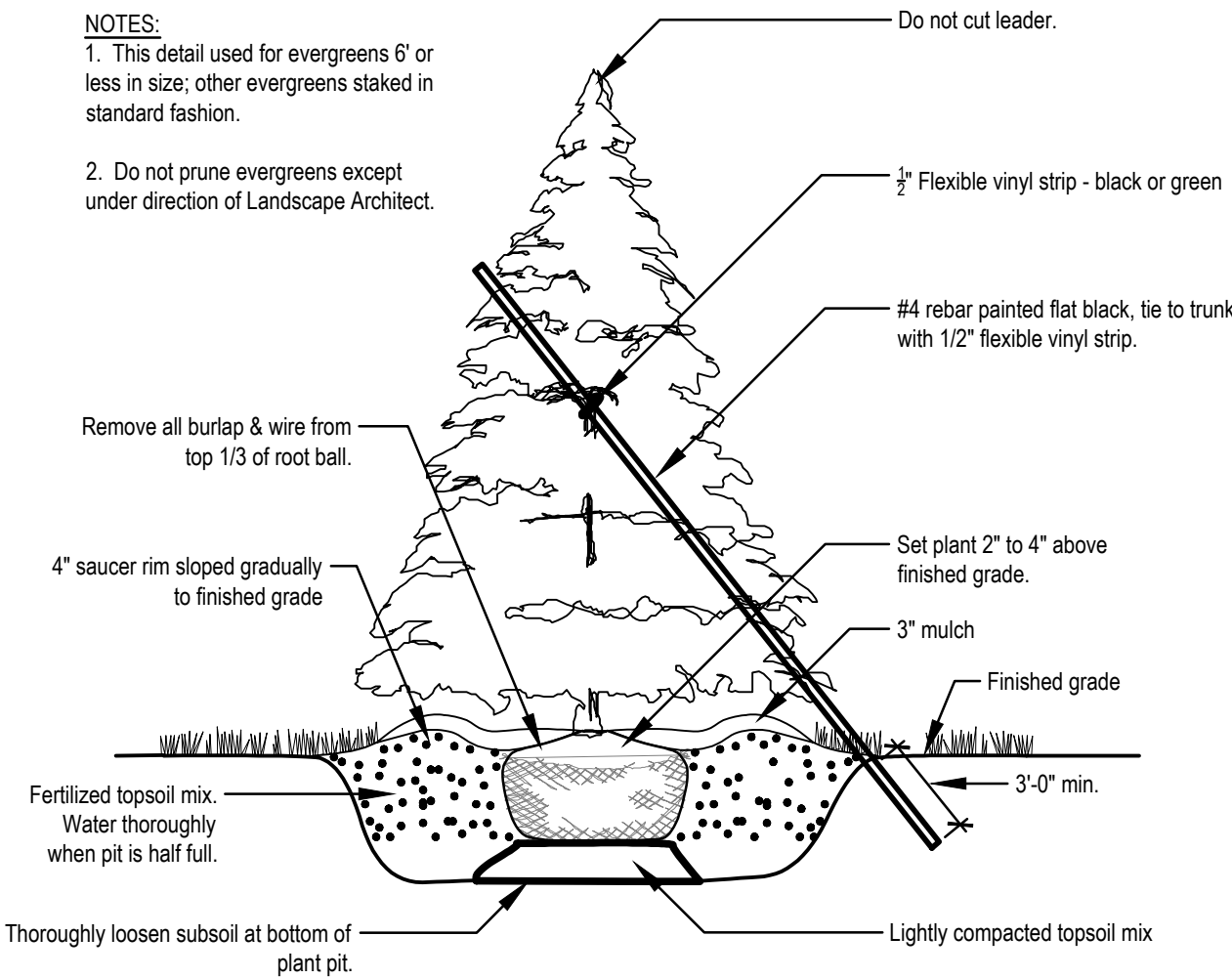
Provided:

Linville Way: 26 trees, approximate locations (by Town of Franklin)



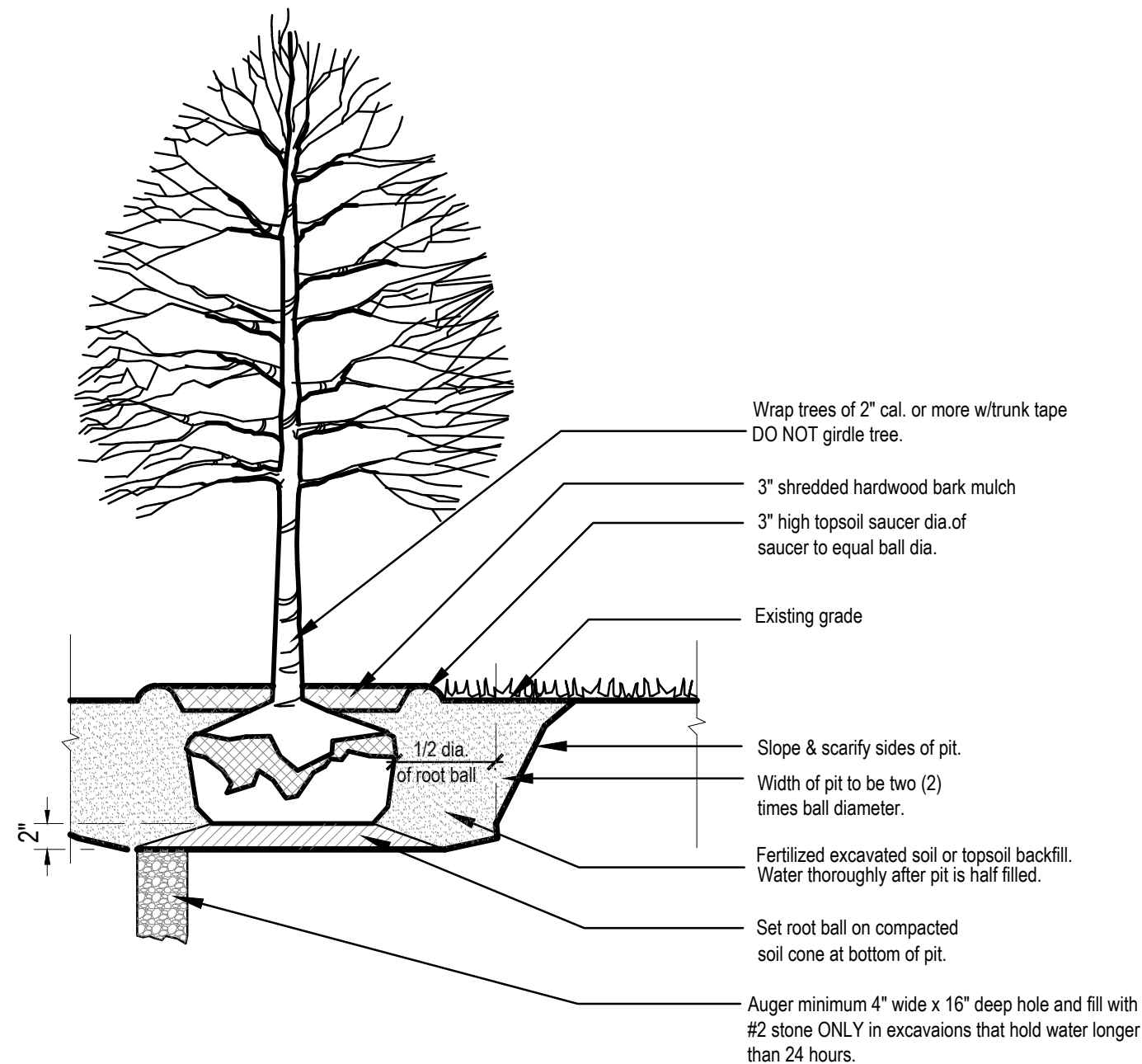
3 MULTI-STEM TREE PLANTING

Not to Scale



2 EVERGREEN TREE PLANTING

Not to Scale



1 TREE PLANTING

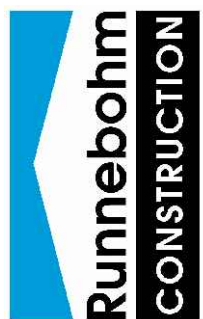
Not to Scale

context
DESIGN

12 S Main St, Ste 200 | Fortville, IN 46040
317-485-6900 | www.context-design.com



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Phone: (317) 598-6647



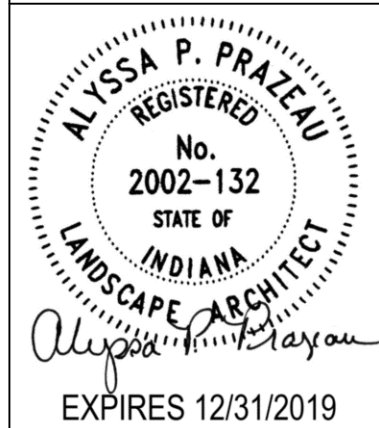
144 E. Rampart Street
Shelbyville, IN 46176
317-598-4722

PROJECT
AIRTOMIC
LOT 2, LINVILLE WAY PLAT
FRANKLIN, IN

REVISIONS		
NO.	DATE	DESCRIPTION

ISSUE DATE: 08/09/2018
DRAWN BY: KMH
CHECKED BY: KMH

DRAWING TITLE



PROJECT NUMBER
2018.0033

DRAWING NUMBER