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C-2.1	SIGNAGE PLAN
C-3.0	SANITARY SEWERS & WATERMAIN PLAN
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1 OF 1	FINAL PLAT



2	06-05-2020	RE-SUBMITTAL TO MUNSTER	DT/EM/MH
1	05-11-2020	PRIMARY SUBMITTAL	DT/EM/MH
NO.	DATE	DESCRIPTION	BY

MAPLE LEAF CROSSING A PLANNED UNIT DEVELOPMENT TO THE TOWN OF MUNSTER, LAKE COUNTY, INDIANA

Legal Descriptions: PARCEL 1

Lot 1 in Munster Business Complex, a Planned Unit Development, in the Town of Munster, as per plat thereof, recorded in Plat Book 110, page 02 in the Office of the Recorder, Lake County, Indiana.

PARCEL 2

Part of the Southeast Quarter of Section 25, Township 36 North, Range 10 West of the Second Principal Meridian, lying West of Lot 1 in Munster Business Complex, a Planned Unit Development, in the Town of Munster, as per plat thereof, recorded in Plat Book 110, page 02 in the Office of the Recorder, Lake County, Indiana, and North of Canadian National Railroad right-of-way, being more particularly described as follows: Commencing at the Northeast corner of said Section 25; thence South 00° 26' 30" West, along the East line of said Section 25, a distance of 3,054.86 feet; thence North 89° 43' 30" West, along the North line of said Lot 1 extended East, a distance of 756.34 feet to the Northwest corner of said Lot 1 and also being point of beginning; thence South 37° 47' 07" East, along the West line of said Lot 1, a distance of 511.81 feet to the Southwest corner of said Lot 1; thence North 59° 52' 07" West, along the Northerly line of said Canadian National Railroad right-of-way (100 feet wide), a distance of 265.99 feet; thence North 37° 47' 07" West, a distance of 343.63 feet; thence South 89° 43' 30" East, a distance of 127.01 feet to the point of beginning, containing 0.982 acres, more or less, all in the Town of Munster, Lake County, Indiana.

TAILS & SPECIFICATIONS

CLIENT/OWNER: Maple Leaf Crossing, LLC 400 Fisher Avenue Munster, IN 46321

PREPARED BY: Torrenga Engineering, Inc. 907 Ridge Road Munster, Indiana 46321 (219)836-8918



NOT TO SCALE

NORTH

NOTES:

1. TOTAL SITE AREA = $7.049 \pm$ (ACRES) $307,066 \pm$ (S.F)

- 2. THIS PROPERTY IS LOCATED IN FLOOD ZONE "X", AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN AS TAKEN FROM THE FLOOD INSURANCE RATE MAP (FIRM) FOR MUNSTER, LAKE COUNTY, INDIANA, MAP NUMBER 18089C0117E, EFFECTIVE DATE JANUARY 18, 2012.
- BENCHMARK(S): TBM #1 - FIRE HYDRANT LOCATED ALONG THE WEST SIDE OF CALUMET AVENUE, 85.65 FEET SOUTH OF THE NORTHWEST CORNER OF LOT 1 IN MUNSTER BUSINESS COMPLEX, SOUTH SOUTHEAST BOLT ELEVATION 618.87.

TBM #2 - MAG. NAIL SET LOCATED ALONG THE EAST SIDE OF CALUMET AVENUE AT CONCRETE SIDEWALK, 120 FEET SOUTH OF THE NORTH LINE OF LOT 1 IN MUNSTER BUSINESS COMPLEX, ELEVATION 616.73.

- 4. DEVELOPER: First Metropolitan Builders 400 Fisher Avenue Munster, IN 46321
- 5. EXISTING TOPOGRAPHY AND UTILITIES DATA ARE PROVIDED AND TAKEN FROM TORRENGA SURVEYING, LLC, JOB NO.: 2019-0676 DATED 03-25-2020
- 6. ALL VERTICAL DATUM IS BASED ON NAVD88.
- 7. HYDROLOGIC UNIT CODES: 07120003030030- HART DITCH (PLUM CREEK)-DYER DITCH
- 8. LOCATION: LATITUDE – 41'32'35" N LONGITUDE – 87'30'36" W
- 9. CURRENT ZONING: CD-4A WITH NO GROUND FLOOR RESIDENTIAL USES PERMIT

CERTIFIED BY: DONALD C. TORRENGA P.E. # 19868



















GENERAL SPECIFICATIONS FOR SANITARY SEWER

1. All work shall be performed in accordance with the Codes, Ordinances and Standards of the Town of Munster, Lake County, and the State of Indiana.

2. All sanitary sewer pipe, branches and fittings shall conform to one of the following: (a) Extra strength vitrified clay pipe (ASTM C-700) with push on rubber gasket joints (ASTM C-425). (b) Poly-vinyl chloride (PVC), SDR 26 (ASTM D-3034), with push-on rubber gasket joints (ASTM C-3212). Six inch service pipes shall be in accordance with the infrastructure improvement codes of the Town of Munster.

3. All sanitary sewer manholes shall be standard 48" diameter precast concrete units (ASTM C-478) conforming with the Standard Detail sheet of these plans.

4. The sanitary manhole base shall be precast with a minimum of 2 foot section, trough, etc..

5. Sanitary manholes shall be provided with a watertight gasketed cover

6. All improvements installed across paved or future paved areas shall be backfilled with sand or graded stone aggregate to the subgrade.

7. The competed sanitary sewer system shall be air tested for infiltration and shall have a maximum infiltration of 100 GPD/inch/diameter/mile of sewer pipe. The completed sanitary sewer system shall be air pressure tested for infiltration/exfiltration with 4 lbs. of pressure for 4 minutes. The testing shall conform to the procedure described in ASTM C-838-86 for clay pipe, ASTM C 924 for concrete pipe, ASTM F-1417 for poly-vinyl chloride pipe, and for other materials test procedures approved by the regulatory agency. The Contractor shall be responsible for supplying all testing materials and appurtenances. The Town of Munster shall be notified when the system (or portion thereof) is ready for testing.

8. Deflection tests shall be performed on all flexible pipe materials placed. The contractor shall be responsible for supplying testing materials and appurtenances. The tests shall be conducted after the final backfill has been in place at least 30 days. No pipe shall exceed a deflection of 5 %. If the deflection test is to be run using a rigid ball or mandrel, it shall have a diameter equal to 95 % of the inside diameter of the pipe. The test shall be performed without mechanical pulling devices. The Town of Munster shall be notified when the system (or portion thereof) is ready for testing.

9. Care should be taken in parkway areas to assure compaction acceptable for the future stability of driveways and sidewalks. While special backfill material is not required, it shall be the responsibility of the Contractor to protect against substantial future settlement of backfilled areas. The contractor shall provide special backfill material across driveways and sidewalks in the event that a sewer or main is installed underneath.

11. All sewers shall be laid at least 10 feet (3.0m) horizontally from any existing or proposed water main. The distance shall be measured edge to edge. All sewers crossing water mains shall be laid to provide a minimum vertical distance of 18 inches (46 cm) between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to prevent damage to the water main. When it is impossible to obtain proper horizontal and vertical separation as stipulated above, the sewer shall be designed and constructed equal to water pipe.

12. The Contractor is responsible for the preparation of "As Built" construction drawings showing actual sizes and lengths of pipe installed (i.e. from manhole to manhole or tee to valve, etc.), location of service taps and any structures added or omitted in comparison with these engineering plans. The Contractor shall supply the Developer (through the Project Engineer) with one set of reproducible original "As-Built" Plans and shall supply the Town of Munster with 2 copies thereof prior to and as a condition of the final acceptance.

13. Air pressure test shall be performed on all completed Sanitary Manholes in accordance with ASTM C 1244-93, Standard Test Method for Concrete Sewer Manholes by Negative Air Pressure (Vacuum) Test. The tests shall be conducted prior to backfill to demonstrate the integrity of the installed materials. The manhole shall pass if the test time meets or exceeds the required minimum test times as specified in ASTM C 1244-93 for the vacuum reading to drop from 10 inches of mercury to 9 inches of mercury. If the manhole fails the initial test, necessary repairs shall be made, and the test shall be repeated. The contractor shall be responsible for supplying all testing materials and appurtenances. The Town of Munster shall be notified when the manholes (or portion thereof) are ready for testing.

14. No sanitary sewer manhole shall be within eight (8) feet of a water main as measured from the outside edge of the sanitary sewer manhole to the outside edge of the water main.



www.stronggo.com/ourproducts.html -NuWay, CAST IN TACT, DETECTABLE WARNING

YELLOW COLOR ONLY

DETECTABLE WARNING SURFACE

NOT TO SCALE

www.nuwayinc.com/CAST_IN_TACT_1.pdf

PAVERS



COMBINED CONCRETE HIGH BACK CURB AND GUTTER NOT TO SCALE



GENERAL SPECIFICATIONS FOR WATER MAINS

1. All work shall be performed in accordance with the Codes, Ordinances and Standards of the Town of Munster, and the State of Indiana.

2. All water main pipe shall be polywrapped Ductile Iron Pipe (AWWA C151 C-52) with bell and spigot push-on rubber gasket joints (AWWA CIII). All water main pipe shall be installed with a minimum cover of 5.0 feet from top of curb to top of pipe. All fire hydrants, tees, bends and fittings shall be suitably harnessed or thrust blocked with concrete.

3. All improvements installed across paved or future paved areas shall be backfilled with sand or graded stone aggregate to the subgrade.

4. All water valves 12" or larger shall be placed in vaults.

5. On 12" water main bends, restrained joints shall be used, megalug or equal. At 90° bends, the water main shall be additionally restrained at 1 joint in each direction.

6. All fire hydrants shall be manufactured by Mueller Company, Super Centurion 250 model with 51/4" valve openings with a 5" Storz pumper connection and shall be backfilled with 3/4" stone for drainage purposes.

7. All water mains shall be laid at least 10 feet (3.0m) horizontally from any existing or proposed sewer. The distance shall be measured from outside of pipe to outside of pipe. All sewers crossing water mains shall be laid to provide a minimum vertical distance of 18 inches (46 cm) between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to prevent damage to the water main. When it is impossible to obtain proper horizontal and vertical separation as stipulated above, the sewer shall be designed and constructed equal to water pipe.

8. Care should be taken in parkway areas to assure compaction acceptable for the future stability of driveways and sidewalks. While special backfill material is not required, it shall be the responsibility of the Contractor to protect against substantial future settlement of backfilled areas. The Contractor shall provide special backfill material across driveways and sidewalks in the event that a water main is installed underneath.

9. The Buffalo Boxes shall be arch pattern box style and shall be located one foot behind sidewalks, if possible. No Buffalo Boxes shall be located in concrete areas, and they shall have AWWA approved shut offs and corporation valves.

10. All water main pipe shall be disinfected by the use of liquid chlorine. The Contractor shall notify the town of Munster when the water main system (or portion thereof) is ready for testing.

11. The Contractor is responsible for water quality tests done by a State Certified Laboratory. The Town of Munster Water Department staff shall be notified and be present while tests are being performed. The approved water system shall be turned on by the Water Department Staff, only after the water quality reports have been approved.

water main (or portion thereof) is ready for testing.

13. The contractor is responsible for the preparation of "As Built" construction drawings showing actual sizes and lengths of pipe installed (i.e. from manhole to manhole or tee to valve, etc.), location of service taps and any structures added or omitted in comparison with these engineering plans. The Contractor shall supply the Developer (through the Project Engineer) with one set of reproducible original "As-Built" Plans and shall supply the Town of Munster with 2 copies thereof prior to and as a condition of the final acceptance.

14. No water main shall be within eight (8) feet of a sanitary sewer manhole, a storm sewer manhole, or a drainage grate support structure as measured from the outside edge of the water main to the outside edge of the sanitary sewer manhole, storm sewer manhole, or drainage grate support structure.



12. The newly installed water main (or portions thereof) shall be subjected to a pressure and leakage test, using hydrostatic testing. Test pressure shall not be less than 1.5 times the working pressure or exceed pipe design pressure. Pressure shall not vary by more than \pm 5 PSI for a minimum of a 2 hour duration test. The exposed pipe and joints shall be examined carefully during the test and any damaged or defective pipe or joints shall be replaced, and the test shall be repeated. The allowable leakage shall not exceed 11.65 gpd/mi/in of nominal pipe diameter at a pressure of 150 PSI.

All visible leaks are to be repaired regardless of the amount of leakage. The contractor shall be responsible for supplying all testing materials and appurtenances. The Town of Munster shall be notified when the



NOT TO SCALE





0:Z:\2019-5052 Jay Lieser - Maple Leaf Crossings Calumet Avenue - Munster\dwg\2019-5052 Details.dwg 6/5/2020 11:47:37 AM



2019-5052	
lations Performed By:	
ng	
Indiana	

n of Storage Provided by OXLHD Stormwater System		
3,595.24	cu. feet	
	cu. feet	
2,687.77	cu. feet	
6,283.0	cu. feet	
6098.00) cu. feet	
	tormwater 3,595.24 - 2,687.77 6,283.0	



- GENERAL NOTES: . THIS PROPERTY IS LOCATED IN FLOOD ZONE "X" (SHADED), AREA WITH REDUCED FLOOD RISK DUE TO LEVEE AS TAKEN FROM THE FLOOD INSURANCE RATE MAP (FIRM) FOR MUNSTER, LAKE COUNTY, INDIANA, MAP NUMBER 18089C0128E, EFFECTIVE DATE JANUARY 18, 2012.
- 2. HYDROLOGIC UNIT CODES: 071200030300630 HART DITCH (PLUM CREEK) DYER DITCH.
- 3. STATE OR FEDERAL WATER QUALITY PERMITS ARE REQUIRED FOR THE PROJECT, A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) IDEM RULE 5 WATER QUALITY PERMIT IS REQUIRED.
- 4. THE SITE CONSISTS PRIMARILY OF DEMOLISHED BUILDINGS, BROKEN ASPHALT AND STONE.
- 5. THERE IS NO PRESENCE OF HYDRIC SOILS ON THIS PROPERTY.
- 6. THERE ARE EXISTING WETLAND AREAS ON THIS PROPERTY AS CLASSIFIED BY THE U.S. FISH AND WILDLIFE SERVICE, NATIONAL WETLANDS INVENTORY, AND THE UNITED STATES DEPARTMENT OF THE INTERIOR. HART DITCH (PLUM CREEK) - DYER DITCH IS THE WATER COURSE WHICH THE STORMWATER FROM THE PROPOSED SITE WILL ULTIMATELY DISCHARGE INTO, ITS LOCATED APPROXIMATELY 1 MILE EAST OF THE PROJECT SITE, AND IS CLASSIFIED AS A WATER OF THE U.S., WITH A NWL = $602\pm$.
- 7. POTENTIAL SOURCE OF STORM WATER DISCHARGE ENTERING THE GROUNDWATER FROM THIS DEVELOPMENT WILL BE THROUGH NATURAL GROUND ABSORPTION ONLY. THERE ARE NO ABANDONED WELLS OR SINKHOLES ON THE PROPERTY.
- 8. THERE ARE NO REGULATED DRAINS WITHIN THIS PROPERTY, OR ON ADJACENT PROPERTIES. THERE IS NO RECORD OR KNOWLEDGE OF EXISTING FARM DRAINS OR FIELD TILE, INLETS AND OUTFALLS LOCATED WITHIN THE EXISTING PROPERTY LIMITS.
- 9. SOIL STOCKPILES, BORROW AND DISPOSAL AREAS ARE LOCATED WITHIN THE PROJECT SITE. THERE ARE NO OFFSITE BORROW, STOCKPILES, OR DISPOSAL AREA ASSOCIATED WITH THIS PROJECT. SOIL STOCKPILES SHALL BE SURROUNDED WITH SILT FENCING AT ALL TIMES TO PREVENT EXCESSIVE EROSION, AND IF LEFT UNDISTURBED FOR A PERIOD OF MORE THAN 14 DAYS, IT SHALL BE TEMPORARY SEEDED.
- 10. ALL ACREAGE OF THIS PROPERTY WILL BE DISTURBED DURING CONSTRUCTION.
- 11. FUEL STORAGE AREA SHALL BE WITHIN THE CONSTRUCTION STAGING AREA, FUEL SHALL BE STORED IN APPROVED MOBILE REFUELING TANK LOCATED AWAY FROM DRAINAGE STRUCTURES AND CHANNELS. FIRE EXTINGUISHERS SHALL BE LOCATED NEAR FUEL STORAGE AREA AND BE OF SUITABLE TYPE, POSTED, AND BE MAINTAINED IN GOOD CONDITION
- 12. TEMPORARY SEED ALL AREAS OF BARE SOIL (WITH THE ADDITION OF A BLANKET WHERE SLOPES ARE GREATER THAN 2:1) THAT WILL REMAIN UNDISTURBED FOR A PERIOD OF MORE THAN 14 DAYS. SEEDING: OPTIMUM SEEDING DATED ARE MARCH 1 - MAY 10 AND AUGUST 10 - SEPTEMBER 30. SEEDING DATES BETWEEN MAY 10 AND AUGUST 10, MAY NEED TO BE IRRIGATED. FOR SEEDING RECOMMENDATIONS SEE PRACTICE 3.12, INDIANA STORM WATER QUALITY MANUAL.
- 13. ALL SOIL STOCKPILES, AREAS THAT ARE DISTURBED DURING CONSTRUCTION, AND DRAINAGE SWALES WHICH ARE SCHEDULED OR LIKELY TO BE LEFT INACTIVE FOR FOURTEEN (14) CALENDAR DAYS OR MORE MUST BE TEMPORARILY OR PERMANENTLY SEEDED WITH MEASURES APPROPRIATE FOR THE SEASON.
- 14. LOCATION OF ON-SITE POSTING, OF THE COMPLETE RULE 5 NOI WITH ASSIGNED PERMIT NUMBER, NOS LETTERS, LOCAL SWPPP PERMIT AND LOCATION OF THE COMPLETE SET OF ENGINEERING PLANS, SHALL BE AVAILABLE AT THE ENTRANCE TO THE SITE AND VISIBLE TO THE PUBLIC.
- 15. ALL PUBLIC AND PRIVATE STREETS AND ROADS FRONTING THE PROJECT SHALL BE SWEPT OF ANY DEBRIS, TRASH OR SEDIMENT WHICH MAY ULTIMATELY DRAIN TO STORM SEWER.
- 16. SITE ELEVATIONS ARE BASED ON NAVD 88, AND HORIZONTAL DATUM IS BASED ON INDIANA STATE PLANE COORDINATES NAD 83.



Rensselaer loam, calcareous subsoil variant

NORTH

SOIL MAP NOT TO SCALE

Temporary stabilization plans and sequence of implementation.

a. On site posting of the complete Rule 5 NOI and NOS Letters. Location of the posting and plans shall be made available by the owner contractor. b. Installation of all erosion/sedimentation controls including stabilized construction entrance, silt

- fences, etc... per the engineering plans.
- c. Clearing and grubbing.

Rs

- d. All disturbed areas shall be permanent seeded, mulched, when no additional disturbance is anticipated.
- e. Topsoil stockpile surrounded with silt fencing.
- f. Rough cut and fill of all proposed swales, road, and other major grading per the engineering plans shall be done to rough grades at start of construction to prevent excessive soil erosion due to construction.
- g. Construction of storm sewers, sanitary sewers, water mains, and other utility, and implementation of storm sewer inlet protection at each open-grate structure (fabric drop inlet protection, basket inlet protection, etc., as per engineering plans). *h. Regrade and construct road.*
- *i.* Complete permanent erosion control and restoration of site vegetation. Erosion control measures are to be removed upon permanent vegetative cover being established.

RESPONSIBLE INDIVIDUAL FOR SWPPP

COMPANY:	FIRST METROPOLITAN BUILDERS
NAME:	JACK LIEISER
ADDRESS:	400 FISHER AVENUE
	MUNSTER, IN 46321
PHONE:	(219) 746-0753
E-MAIL:	JACKLIESER@AOL.COM

				Шоз
IGA ENGINEERING, INC	CONSULTING ENGINEERS & LAND SURVEYORS	907 RIDGE ROAD, MUNSTER, INDIANA 46321	•	alo website: www.torrenga.com
TORRENGA	CONSU	907 R		161. NO.: (213) 030-0
A P.U.D. TO THE LEAF CROSSING)		•	
		06-05-2020	REVISIONS:	DATE: 05-11-2020
CLIENT: Maple Leaf Crossing, LLC 400 Fisher Avenue Munster, Indiana 46321		108 NO: 2019-5052	2	SCALE: 1" = 40'



	DORMANT AND FROST SEEDING	SELF-MONITORING PROGRAM
s and courts not scheduled.	 Purpose: 1. To provide early germination and soil stabilization in the spring. 2. To reduce sediment runoff to downstream areas. 	A self-monitoring program that includes the following must be implemented at all permitted project sites:
:d.	d carris Perpere To provide arry genuination and out qubitration in the spring. To reprint genuination and out qubitration in the spring. To reprint genuination and out qubitration in the spring. To reprint genuination and out qubitration in the spring. To reprint genuination and out qubitration and furtilizer applicat. To reprint genuination and the basis of first Quantinuous, Sprint PFL, instandel land and spreasant land and an and an and the spring of the spring and the spring of the spring and the spring of the	1. A trained individual shall perform a written evaluation of the project site a minimum of one (1) time per week and by the end of the next business day following each measurable storm event.
e, and expected		to ensure they are functioning properly and identify additional measures necessary to
tions.		3. Written evaluation reports must include:a. the name of individual performing the evaluation;
ndesirable seeds.		c. problems identified at the project site; andd. details of corrective actions recommended and completed.
lime into the soil	Dormant seeding is a temporary or permanent seeding application at a time when soil temperatures are too low for germination to occur (less than 50 °F) Frost seeding is a temporary or permanent seeding application in early spring when soils are in the	 All evaluation reports for the project site must be made available to the MS4 Operator or other designated entity within forty-eight (48) hours of a request. Evaluation reports must be maintained for a period of two (2) years from date of NOT. All evaluation reports will be submitted to the Town of Munster when requested.
sting, and cover to sker.		
er, fertilizer and	 Broadcast fertilizer as recommended by soil test. Broadcast seeding on top of the mulch and/or into existing ground cover at the rate shown on table. (if site preparation occurs within the recommended dates, fertilize and 	Date: Project: Inspected by: Type of Inspection: Scheduled Weekly Rain Event CONSTRUCTION SITE INSPECTION AND MAINTENANCE LOG
lis dark green or and grasses well ghout the summer,	For Frost Seeding: (Seeding dates: Feb. 28 - Mar. 28)1. Broadcast fertilizer as recommended by a soil test.	All stormwater pollution prevention BMPs shall be inspected and maintained as needed to ensure continued performance of their intended function during construction and shall continue until the entire site has been stabilized and a Notice of Termination has been issued. An inspection of the project site must be completed by the end of the next business day following each measurable storm event. If there
commendations. zing, over- or re-	for permanent seeding, and broadcast on to the seedbed or into the existing ground	are no measurable storm events within a given week, the site should be monitored at least once in that week. Maintenance and repair shall be conducted in accordance with the accepted site plans. This log shall be kept as a permanent record and must be made available to the Town of Munster Town Engineer, in an organized fashion, within forty-eight (48) hours upon request.
, soil fertility, er by over-seeding / or nutrient on office for according to soil	 Apply 200-300 lbs./acre of 12-12-12 or equivalent fertilizer between Apr. 15 and May 10 or during periods of vigorous growth. Re-seed and mulch any areas that have inadequate cover by mid- to late April. For best results, re-seed within the recommended dates shown for temporary seeding or for 	1. Are all sediment control barriers, inlet protection and silt fences in place and functioning properly? 2. Are all endible slopes protected from erosion through the implementation of acceptable soil stabilization practices? 3. Are all dewatering structures functioning properly? 4. Are all discharge points free of any noticeable erosion or sediment transport? 5. Are all discharge points free of any noticeable erosion or sediment transport? 6. Are designated equipment washout areas properly sited, clearly marked, and being utilized? 7. Are construction staging and parking areas restricted to areas designated as such on the plans?
ust 10 to September		9. Are construction entrances properly installed and being used and maintained? 10. Are "Do Not Disturb" areas designated on plan sheets clearly marked on-site and avoided? 11. Are public roads at intersections with site access roads being kept clear of sediment, debris, and mud? 12. Is spill response equipment on-site, logically located, and easily accessed in an
ion. Temporary anent Seeding.		13. Are emergency response procedures and contact information clearly posted? 14. Is solid waste properly contained? 15. Is a stable access provided to the solid waste storage and pick-up area? 16. Are hazardous materials, waste or otherwise, being properly handled and stored?
is are to be used on silt fences around	Annual ryegrass 60 lbs.	If you answered "no" to any of the above questions, describe any corrective action which must be taken to remedy the problem and when the corrective actions are to be completed.
es are available	if the area to be seeded will remain idle for more than a year.	
properties (e.g., soil droughtiness.		
Optimum soil pH		
5.6 to 7.0	Material: Straw, hay, wood fiber or excelsior, see table for Mulch Materials, Rates,	
5.5 to 7.5	Comments: Coverage: 75% of the soil surface Anchoring: Required to prevent displacement by wind or water, see table for Mulch	REPORT SAMPLE
5.6 to 7.0	1. Apply mulch at the recommended rate.	SPILL PREVENTION AND RESPONSE
5.5 to 7.5	25% of the surface visible.3. Anchor immediately if using straw or hay, using one of the folliwing methods:	Purpose: Procedures and practices to prevent and control spills in a manner that minimizes or eliminates the discharge of spilled material to the drainage system or watercourses.
	Hydromulch with short cellulose fibers.Apply liquid tackifier.	Hazardous Waste Products:Other Waste Products:• Petroleum Products,• Soil stabilizers/binders• Asphalt Products,• Dust palliatives
	 Hydromulch with short cellulose fibers. Apply liquid tackifier. Cover with netting secured with metal staples Maintenance:	 Petroleum Products, Asphalt Products, Concrete Curing Compounds, Pesticides, Growth inhibitors
5.5 to 7.5	 Hydromulch with short cellulose fibers. Apply liquid tackifier. Cover with netting secured with metal staples Maintenance: Inspect after storm events to check for movement of mulch or for erosion. If washout, breakage, or erosion is present, repair the surface, then re-seed, re-mulch. 	 Petroleum Products, Asphalt Products, Concrete Curing Compounds, Pesticides, Acids, Paints, Stains, Stains, Soil stabilizers/binders Dust palliatives Dust palliatives Growth inhibitors Fertilizers Deicing/anti-icing chemicals
5.5 to 7.5 5.5 to 7.5	 Hydromulch with short cellulose fibers. Apply liquid tackifier. Cover with netting secured with metal staples Maintenance: Inspect after storm events to check for movement of mulch or for erosion. If washout, breakage, or erosion is present, repair the surface, then re-seed, re-mulch. Continue inspections until vegetation is firmly established. 	 Petroleum Products, Asphalt Products, Concrete Curing Compounds, Pesticides, Acids, Paints, Soil stabilizers/binders Dust palliatives Herbicides Growth inhibitors Fertilizers Deicing/anti-icing chemicals
5.5 to 7.5 5.5 to 7.5 5.6 to 7.0	 Hydromulch with short cellulose fibers. Apply liquid tackifier. Cover with netting secured with metal staples Maintenance: Inspect after storm events to check for movement of mulch or for erosion. If washout, breakage, or erosion is present, repair the surface, then re-seed, re-mulch. Continue inspections until vegetation is firmly established. Exhlbit 3.15-B. Mulch Materials, Rates, and Comments. Material Rate Comments	 Petroleum Products, Asphalt Products, Concrete Curing Compounds, Pesticides, Acids, Paints, Stains, Solvents, Wood Preservatives, Solvents, Solvents, Other petroleum distillates
5.5 to 7.5 5.5 to 7.5 5.6 to 7.0	 Hydromulch with short cellulose fibers. Apply liquid tackifier. Cover with netting secured with metal staples Maintenance: Inspect after storm events to check for movement of mulch or for erosion. If washout, breakage, or erosion is present, repair the surface, then re-seed, re-mulch. Continue inspections until vegetation is firmly established. Exhibit 3.15-B. Mulch Materials, Rates, and Comments. Material Rate Material Rate Straw or hay 1½-2 tons/acre Should be dry, unchopped, free of undesirable seeds. Spread by hand or machine. Must be crimped or anchored (see	 Petroleum Products, Asphalt Products, Dust palliatives Concrete Curing Compounds, Herbicides Pesticides, Growth inhibitors Acids, Fertilizers Paints, Solvents, Solvents, Wood Preservatives, Roofing Tar, or Any materials deemed a hazardous waste in 40 CFR Parts 110, 117, 261, or 302 Spill Prevention Practices: The following are management practices used for reduction of spills and other accidenta exposure of materials and substances to storm water runoff:
5.5 to 7.5 5.5 to 7.5 5.6 to 7.0	 Bara and an angle and an angle and angle and a data and data and a data and data and a data and a data and a data and a da	 Petroleum Products, Asphalt Products, Asphalt Products, Concrete Curing Compounds, Pesticides, Acids, Paints, Stains, Solvents, Solvents, Wood Preservatives, Roofing Tar, or Any materials deemed a hazardous waste in 40 CFR Parts 110, 117, 261, or 302 Spill Prevention Practices: The following are management practices used for reduction of spills and other accidenta exposure of materials and substances to storm water runoff: The contractors and subcontractors shall refer to the Material Safety Data Sheet (MSDS) for information on the proper storage, use, and clean-up methods for all
5.5 to 7.5 5.5 to 7.5 5.6 to 7.0 5.6 to 7.0 5.5 to 7.0		 Petroleum Products, Asphalt Products, Asphalt Products, Concrete Curing Compounds, Pesticides, Acids, Paints, Stains, Stains, Solvents, Wood Preservatives, Roofing Tar, or Any materials deemed a hazardous waste in 40 CFR Parts 110, 117, 261, or 302 Spill Prevention Practices: The following are management practices used for reduction of spills and other accidenta exposure of materials and substances to storm water runoff: a. The contractors and subcontractors shall refer to the Material Safety Data Sheet (MSDS) for information on the proper storage, use, and clean-up methods for all materials anticipated being on the project site. All required materials for spill clean up and disposal of all onsite materials shall kept on site in a project trailer with easy access for all users of associated material
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5.5 to 7.5 5.5 to 7.0 5.6 to 7.0 5.6 to 7.0 5.6 to 7.0 5.6 to 7.0 5.6 to 7.5 5.5 to 7.5 5.5 to 7.5 5.5 to 7.5 5.5 to 7.5 5.5 to 7.5	 Hydromulch with short cellulose fibers. Apply liquid tackifier. Cover with netting secured with metal staples. Maintenance: Inspect after storm events to check for movement of mulch or for erosion. If washout, breakage, or erosion is present, repair the surface, then re-seed, re-mulch. Continue inspections until vegetation is firmly established. Exhibit 3.15-B. Mulch Materials, Rates, and Comments. Material Rate Comments Material Rate Comments. Straw or hay 1½-2 tons/acre Should be dry, unchopped, free of undesirable seeds. Wood fiber or cellulose 1 ton (excelsior) Spread by hand or machine. Must be crimped or anchored (see <i>Exhibit 3.15-D</i>). Wood fiber or cellulose 1/2-3/4 Anchor in areas subject to wind. (excelsior) ton/acre What haydromulcher and use with tacking agent. Long fiber wood 1/2-3/4 Anchor in areas subject to wind. (excelsior) ton/acre Operate dozer up and down slope, not across, or else the tracks will form rills. Mulch anchoring tool OB Farm disk (dull, serrated, and set straight) Crimp or punch the straw or hay into the sol 2.4 in. Operate dozer up and down slope, not across, or else the tracks will form rills. Wood hydromulch fibers Apply 1/2 tons/acre using a hydromulcher at a rate of 500 bs./arer with a taking agent (or according to contra	 Petroleum Products, Asphalt Products, Concrete Curing Compounds, Pesticides, Pesticides, Paints, Stains, Stains, Solvents, Roofing Tar, or Any materials deemed a hazardous waste in 40 CFR Parts 110, 117, 261, or 302 Spill Prevention Practices: The following are management practices used for reduction of spills and other accidents exposure of materials and substances to stom water runoff: The following are management practices used for reduction of spills and other accidents exposure of materials and substances to stom water runoff: The following are management practices used for reduction of spills and other accidents exposure of materials of spill clean up and disposal of all onsite materials shall kept on site in a project trailer with easy access for all users of associated materials. All required materials for spill clean up and disposal of all onsite materials. Cleanup of sediments that have been tracked by vehicles or have been transporte by wind or storm water about the site or onto nearby roadways. Response Practices: In the event that a large spill occurs (that which requires extensive cleanup actions, refe MSD sheets for information), the following procedures shall be followed to minimize exposure of the material. Cleanup of sediments that have been tracked by vehicles or have been transporte by wind or storm water about the site or onto nearby roadways. Response Practices: In the event that a large spill occurs (that which requires extensive cleanup actions, refe MSD sheets for information), the following procedures shall be followed to minimize exposure of the material. Immediate action shall be taken to control and contain the spill to prevent it from entering any nearby storm sewer structures or open waters. Notify the Federal Emergency Sepill Hotline at 1-88
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- a. Select a designated waste collection area onsite.b. Provide an adequate number of containers with lids or covers throughout the s
- and frequent pickupsc. Provide immediate cleanup of any container spills.d. Make sure that construction waste is collected, removed, and disposed of only authorized areas.

d at all permitted site a minimum owing each r quality measures ares necessary to	
the MS4 Operator from date of NOT. n requested. ELOG sdod to ensure until the effect the project site sets one in that proje	LINEERING, INC. S & LAND SURVEYORS NSTER, INDIANA 46321 website: www.torrenga.com
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leanup actions, refer to owed to minimize ill to prevent it from ombustible and 02 within 2 hours for 1 enters any nearby 3-7745. th absorbent pads, and absorption. spills above and	06-05-2020 REVISIONS: DATE: 05-11-2020
f this project shall be deral laws associated le on-site dumpsters, waste is collected and e will be deposited in a led will be instructed s throughout the site, disposed of only at	CLIENT: First Metropolitan Builders 400 Fisher Avenue Munster, Indiana 46321 JOB NO: 2019–5052 SCALE: NTS SCALE: NTS
	SHEET C-7.0

C-7.0

Purpose: full use of the storm drain system during the construction period. Installation 2. structure frame. Replace the inlet/catch basin grate. Maintenance: inch rainfall, and remove built-up sediment. Replace bag every six (6) months. 4.



GENERAL NOTES: FRAME: Top flange fabricated from 1¼*x1¼*x½* angle. Base rim fabricated from 1½*x½* channel. Handles and suspension brackets fabricated from 1¼*x¼* flat stock. All steel conforming to ASTM-A36. SEDIMENT BAG: Bag fabricated from 4 oz./sq.yd. non-woven polypropylene geotextile reinforced with polyester mesh. Bag secured to base rim with a stainless steel band and lock.

INSERT DETAIL

STREET AND PARKING LOT SWEEPING

Purpose: To reduce the amount of pollutants that get washed into the storm drain and ultimately transported and deposited in waterbodies.

Application: private streets and roads.

Limitations:

Maintenance

2. May require repeat cleanings.

- remove it.

- hazardous.
- 7. After sweeping is finished, properly dispose of sweeper wastes at an approved dumpsite.

BASKET INLET / CATCH BASIN PROTECTION

To prevent excessive sediment from entering storm sewers at inlet/catch basin, allowing

Requirements: Steel Frame with top width-length dimensions such that the basket fits into the inlet and/or catch basin (circular and/or rectangular), and a replaceable Geotextile fabric bag attached with a steel band locking cap that is suspended from the frame, Catch -all Inlet Protector Hancor Flo-Gard bt Nyloplast or approved equal.

> Install protection to existing and newly installed inlet/catch basin in a new development before land disturbing activities begin in a stabilized area. Remove the grate, and place the basket assembly under the grate on the lip of the

Inspect weekly during construction and after each storm event of a minimum of 1/2

Replace the Geotextile fabric bag if there is a hole and/or won't pass water.

Replace the Geotextile fabric bag after any oil, gasoline or solvent spill.



TYPICAL INLET/CATCH BASIN PROTECTION

1. Sweeping at points of egress where sediment is tracked from project site onto public or

1. Sweeping may be ineffective if soil is wet or heavy accumulation of mud.

1. Inspect potential sediment tracking ingress and egress points locations daily, and after rain 2. Visible sediment observed outside the construction limits shall be swept and removed daily. 3. Do not use kick brooms or sweeper attachments. These tend to spread the dirt rather than

4. If not mixed with debris or trash, consider incorporating the removed sediment back into the

5. Be careful not to sweep up any unknown substance or any object that may be potentially

6. Adjust brooms frequently; maximize efficiency of sweeping operations.

Support : 2" x 2" hardwood stakes set at least 8-inches to 12-inches deep.

fabric

Requirement

Spacing of Support: 6-foot maximum on center.

Fence height: A 2-ft. minimum or high enough so depth of impounded water does not exceed one-half the height of the fence at any point along the line.

Purpose: To retain sediment from small sloping disturbed areas by reducing the velocity of sheet flow.

Trench: 6" minimum depth, flat bottom, filled with compacted soil to bury lower portion of fence

Attachement: Hardwood laths secured to stakes with five (5) 1-1/2 inch staples.

SILT FENCE

Fence Fabric: Spunbound polyester material with a fiberglass scrim or net sandwiched in between the layers, SS-700 SiltSaver or approved equal.

Installation: 1. Along the entire intended fence line, maintain contour as much as possible, dig a 6" deep flat

bottom trench. On the downslope side of the trench, drive the post 8" to 12" into the ground.

- Run a continuous length of fence fabric along upslope side of posts.
- Fasten fence fabric to the upslope side of the stakes, extending it into the trench, and securing it with hardwood laths secured with five (5) 1-1/2 staples. The bottom 12" of the fence fabric shall be left unsecured to allow for entrenchment.
- If a joint is necessary, staple the overlap to the nearest post with a wood lath. 6. Place the bottom 1' of fabric in the 6" deep trench, extending the remaining 4" of fabric toward the upslope side.

Backfill the trench with compacted earth.

Maintenance: Inspect silt fence once every seven calendar days and 24 hours after each storm event of 1.

- minimum of 1/2 inch rainfall. 2. If fence fabric tears, starts to decompose, or becomes ineffective, replace the affected portion,
- as outlined by the manufacturer. Remove deposited sediment when it reaches one-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 watershed has been stabilized, remove fence and sediment deposits, bring the disturbed area to grade and stabilize.







Silt Fence Wrap Joint Detail

TOPSOIL SALVAGE & UTILIZATION

Purpose: To provide a method of preserving topsoil for use in establishing vegetation to achieve final site stabilization.

Specifications: Material

Typically the darker, friable, loamy surface layer of soil found immediately below vegetation.

Storage Area

- 4. Stockpile outside rooting zone of trees to be protected.

Application:

- Salvaging and Stockpiling Topsoil
 - 2. Prior to stripping topsoil, install any site-specific down slope measures needed to

 - 4. Stockpile the material in accessible locations that will not interfere with other
 - construction activities or block drainage. 5. Stockpiled soil should be temporarily seeded and surrounded by a sediment control measure.

Spreading Topsoil

- Prior to applying topsoil, grade the subsoil and roughen the top three to four inches by disking
- 2. Apply topsoil evenly to a depth of a minimum of four inches, then compact slightly
- to improve contact with the subsoil.
- 3. Do not apply topsoil when the site is wet, muddy, or frozen. 4. After spreading the topsoil, grade and stabilize the site.
- Maintenance
 - Inspect daily.
 - Check for damage to perimeter barrier; repair immediately. 3. Check for erosion or damage to newly spread topsoil; repair immediately and
 - revegetate.





Requirements: 1.) Locate concrete washout systems at least 50 feet from any creeks, wetlands, ditches, karst features, or storm drains/manmade conveyance systems. 2.) Locate concrete washout systems in relatively flat areas with established vegetative cover and do not receive runoff from adjacent land areas. 3.) Locate in areas that provide easy access for concrete trucks and other construction

- 4.) Locate away from other construction traffic to reduce the potential for damage to the system. 5.)
- defects. The sheeting selected should be of an appropriate size to fit the washout system without seams or overlap of the lining. 6.) Signage.
- Orange safety fencing or equivalent. 7.)
- (above grade systems).

Installation:

- 1.) Dependent upon the type of system, either excavate the pit or install the containment 2.) A base shall be constructed and prepared that is free of rocks and other debris that may
- cause tears or punctures in the polyethylene lining. 3.) Install the polyethylene lining. For excavated systems, the lining should extend over the entire excavation. The lining for bermed systems should be installed over the pooling area
- should be secured with pins, staples, or other fasteners. 4.) Place flags, safety fencing, or equivalent to provide a barrier to construction equipment and other traffic.
- 5.) Place a non-collapsing, non-water holding cover over the washout facility prior to a predicted rainfall event to prevent accumulation of water and possible overflow of the system (optional).

6.) Install signage that identifies concrete washout areas. Post signs directing contractors and suppliers to designated locations. 7.)

- Maintenance: 1.) Inspect daily and after each storm event. 2.) Inspect the integrity of the overall structure including, where applicable, the
- containment system. Inspect the system for leaks, spills, and tracking of soil by equipment. 3.) Inspect the polyethylene lining for failure, including tears and punctures. 4.)
- 5.) Once concrete wastes harden, remove and dispose of the material. Excess concrete should be removed when the washout system reaches 50 percent of the 6.)
- design capacity. Use of the system should be discontinued until appropriate measures can be initiated to clean the structure. Prefabricated systems should also utilize this criterion, unless the manufacturer has alternate specifications.
- 7.) Upon removal of the solids, inspect the structure. Repair the structure as needed or construct a new system.
- 8.) Dispose of all concrete in a legal manner. Reuse the material on site, recycle, or haul the material to an approved construction/demolition landfill site. Recycling of material is encouraged. The waste material can be used for multiple applications including but not limited to roadbeds and building. The availability for recycling should be checked locally.
- 9.) The plastic liner should be replaced after every cleaning; the removal of material will usually damage the lining. 10.) The concrete washout system should be repaired or enlarged as necessary to maintain
- capacity for concrete waste. 11.) Concrete washout systems are designed to promote evaporation. However, if the liquids do not evaporate and the system is near capacity it may be necessary to vacuum or remove the liquids and dispose of them in an acceptable method. Disposal may be allowed at the local sanitary sewer authority provided their National Pollutant Discharge Elimination System permits allow for acceptance of this material. Another option would be to utilize a secondary containment system or basin for further dewatering.
- 12.) Prefabricated units are often pumped and the company supplying the unit provides this service. 13.) Inspect construction activities on a regular basis to ensure suppliers, contractors, and others are utilizing designated washout areas. If concrete waste is being disposed of
- improperly, identify the violators and take appropriate action. 14.) When concrete washout systems are no longer required, the concrete washout systems shall be closed. Dispose of all hardened concrete and other materials used to construct the
- 15.) Holes, depressions and other land disturbances associated with the system should be backfilled, graded, and stabilized.

CONCRETE WASHOUT Concrete Washout (Above Grade System) Worksheet Metal pins or staples to secure the polyethylene lining to the straw bales A REAL OF SECTOR SECTOR Plan View Not to Scale Polyethylene lining (10 millimeters); Metal pins or staples to secure the The lining polyethylene lining to the straw bales Section A-A 254 Chapter 7

10' (MIN.)

Free of stumps, rock, and construction debris. Stockpile covered with vegetation or a tarp.

Surrounded by a sediment barrier or sediment filter.

- Determine depth and suitability of topsoil at site.
- control storm water runoff and sedimentation.
- 3. Remove soil material no deeper than the "surface soil".

Minimum of ten millimeter polyethylene sheeting that is free of holes, tears, and other

8.) Straw bales, sandbags (bags should be ultraviolet-stabilized geotextile fabric), soil material, or other appropriate materials that can be used to construct a containment system

with enough material to extend the lining over the berm or containment system. The lining





No. 19868

STATE OF

NDIANA



October 2007

Not to scale



MAPLE LEAF CROSSING A PLANNED UNIT DEVELOPMENT TO THE TOWN OF MUNSTER, LAKE COUNTY, INDIANA

Legal Descriptions: PARCEL 1

Lot 1 in Munster Business Complex, a Planned Unit Development, in the Town of Munster, as per plat thereof, recorded in Plat Book 110, page 02 in the Office of the Recorder, Lake County, Indiana.

PARCEL 2

Part of the Southeast Quarter of Section 25, Township 36 North, Range 10 West of the Second Principal Meridian, lying West of Lot 1 in Munster Business Complex, a Planned Unit Development, in the Town of Munster, as per plat thereof, recorded in Plat Book 110, page 02 in the Office of the Recorder, Lake County, Indiana, and North of Canadian National Railroad right-of-way, being more particularly described as follows:

Commencing at the Northeast corner of said Section 25; thence South 00° 26' 30" West, along the East line of said Section 25, a distance of 3,054.86 feet; thence North 89° 43' 30" West, along the North line of said Lot 1 extended East, a distance of 756.34 feet to the Northwest corner of said Lot 1 and also being point of beginning; thence South 37° 47' 07" East, along the West line of said Lot 1, a distance of 511.81 feet to the Southwest corner of said Lot 1; thence North 59° 52' 07" West, along the Northerly line of said Canadian National Railroad right-of-way (100 feet wide), a distance of 265.99 feet; thence North 37° 47' 07" West, a distance of 343.63 feet; thence South 89° 43' 30" East, a distance of 127.01 feet to the point of beginning, containing 0.982 acres, more or less, all in the Town of Munster, Lake County, Indiana.

STATE OF INDIANA)
COUNTY OF LAKE)§)

We, the undersigned, Maple Leaf Crossings, LLC, do hereby certify that we are the owner of the property herein described and that of its own free will and accord has caused said property to be surveyed and subdivided into lots, blocks and streets as heron shown.

This subdivision shall be known and designated as MAPLE LEAF CROSSING, a Planned Unit Development to the Town of Munster. All streets and easements shown and not heretofore dedicated, are hereby dedicated, to the Town of Munster.

Maple Leaf Crossings, LLC

Jack Lieser, Principal

STATE OF INDIANA

COUNTY OF LAKE

Before me, the undersigned Notary Public, in and for the County and State aforesaid, personally appeared Jack Lieser, on behalf of Maple Leaf Crossings, LLC, personally known to me to be the same persons who signed the attached certificate and acknowledged to me that he executed the same as his own free act and deed.

Witness my hand and Notarial Seal this _____ day of _____ __, 20___ A.D.

My Commission expires: County of Residence:

STATE OF INDIANA COUNTY OF LAKE

Submitted to, approved and accepted by the Plan Commission of the Town of Munster, Lake County, Indiana, this _ day of ____ ____, 20_____.

PLAN COMMISSION OF THE TOWN OF MUNSTER, LAKE COUNTY, INDIANA.

Chairman:

ATTEST: **Executive Secretary:**

Notary Public

STATE OF INDIANA COUNTY OF LAKE

I, Gary P. Torrenga, hereby state that I am a registered Land Surveyor, licensed in compliance with the laws of the State of Indiana; and that to the best of my knowledge, information and belief, the plat within represents a survey made under my direction in accordance with Title 865, Article 1, Rule 12 of the Indiana Administrative Code. The field work for said survey was completed on March 25, 2020; that this plat correctly represents said survey and that all dimensions, linear and angular are correctly shown, and that all monuments or markers shown thereon actually exist, and that their locations, size, type and description are accurately shown. I affirm, under the penalties for perjury, that I have taken reasonable care to redact each Social Security Number in this document, unless required by law.

Witness	my hand	and Sea	al this	day of

TORRENGA ENGINEERING, INC.

Gary P. Torrenga - Registered L.S. #S0514



UTILITY EASEMENTS:

An easement is hereby granted to the Town of Munster, Indiana, SBC, AT&T, Northern Indiana Public Service Company and other companies identified by the Munster Town Board as supplying public service needs severally and their respective successors and assigns to install, lay, erect, construct, renew, operate, repair, replace and maintain sewers, water mains, gas mains, conduits, cables, poles and wires, underground with all necessary braces, guys, anchors and other appliances, in, upon, along and over the strip or strips of land designated by dotted lines on the plat and marked "easements for public utilities" for the purpose of serving the public in general with sewer, water, gas, electric, telephone and television service, including aerial right as to streets where necessary with aerial service wires to adjacent lots, together with the right to enter upon the said easements for public utilities at all times for any and all of the purposes aforesaid and to trim and keep trimmed any trees, shrubs, or saplings that interfere with any such utility equipment. Any fences, trees, black toppings, vegetation improvements or other potential obstacles to the use of easements shown upon the subdivision plat shall be placed at the risk of the property owner and may be subject to removal in the event of any interference with the use of said easements or drainage of other lots. Changes of yard elevations in easements from those established upon the subdivision plat or noted on plats submitted and approved when building permits are issued that adversely impact drainage of adjoining lots shall be subject to regrading at the owner's expense. All designated utility easements are also hereby dedicated as drainage easements.

FLOOD STATEMENT:

As taken from FEMA Flood Insurance Rate Map (FIRM), Community-Panel Number 18089C0117E, Effective Date January 18, 2012, this property is in Flood Zone X, areas determined to be outside the 0.2 % annual chance floodplain.

OUTLOT A & OUTLOT B (COMMON AREA):

Each Lot (Lots 1 through 7) shall have an unlimited, non-exclusive easement to Outlot A and Outlot B for the purpose of Ingress-Egress and parking.

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⁺ 0.6	⁺ 0.6	⁺ 1.6	7.5	+1.1	⁺ 0.8	⁺ 0.6	⁺ 0.6	⁺ 0.5	⁺ 0.4	⁺ 0.4	⁺ 0.5	\leq	27 	/		2,7	10 SF	/	⁺ 0.1	⁺ 0.2	⁺ 0.3	⁺ 0.6	⁺ 1.2	⁺ 1.8	⁺ 2.0	⁺ 2.0	⁺ 2.6	⁺ 2.5	⁺ 1.8	⁺ 1.6	⁺ 2.1	⁺ 2.9	⁺ 2.8	⁺ 2.5	⁺ 3.0	⁺ 2.9	+1
⁺ 0.9	⁺ 0.4	⁺ 0.5	⁺ 0.8	⁺ 0.8	+0.7	⁺ 0.7	⁺ 0.8	⁺ 0.8	⁺ 0.7	⁺ 0.6	⁺ 0.6	⁺ 0.5	⁺ 0.3					\neq		⁺ 0.1	⁺ 0.2	⁺ 0.3	⁺ 0.6	+1.1	⁺ 2.0	⁺ 1.7	⁺ 2.5) ⁺ 3.3	, ⁺ 2.2	⁺ 1.4	⁺ 1.4	⁺ 1.5	⁷ 1.5	/1.7	†2.3	*2.7	+~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
⁺ 0.6	⁺ 0.5	⁺ 0.3	⁺ 0.3	⁺ 0.4	⁺ 0.5	⁺ 0.8	+1.1	1.3	⁺ 1.2	⁺ 1.2	⁺ 1.2	⁺ 1.0	[†] 0.6	0.3	⁺ 0.2					⁺ 0.1	⁺ 0.1	[†] 0.1/	⁺ 0.1/		*0.5	[†] 0.9	* * -24	⁺ 2.1	⁺ 2.2	⁺ 1.5	⁺ 1.2	⁺ 1.0	⁺ 0.9	⁺ 1.0	⁺ 1.3	⁺ 1.7	
	/	⁺ 0.2	⁺ 0.2		⁺ 0.3													[⁺] 0.1			/				/		⁺ 0.9	⁴ 1.0	2.2	/1.9	/1.3	/ [†] 0.9	⁺ 0.7	[⁺] 0.6	⁺ 0.8	⁺ 1.1	/1
//			, /	⁺ 0.1	⁺ 0.2					0																			[†] 0.9	+14				[†] 0.5		ŝ	· /
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		ζ	//	//		//	`0.6	⁻ 0.8	т									⁺ 0.2					+					/\$P.				0.3	0.2	0.2	0.2	0.3 + S	₹ ↓
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							[]	7			0.7	0.5						0.3 †0.3			1					104	\succ				UTH OF #27,991					0.1	7
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									2			D			~	⁺ 0.1		⁺ 0.1							5				⁺ 0.2	+0/1						/	
														,]	//	7	A.			⁺ 0.5	⁺ 1.1	+1.2								+0.2	Jm				\neq	' /:
													4		/	1	ζ	//		1.4 0.4		MASONI TRASH ENCL		A_1	341.2	⁺ 1.9	⁺ 1.6	⁺ 1.0	[†] 0.6	⁺ 0.4	⁺ 0.3	⁺ 0.2	0.2			⁺ 0.1	
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