

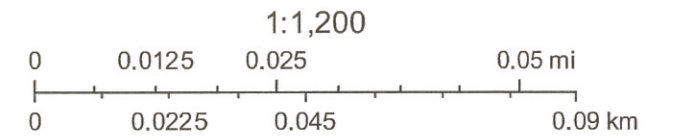
ArcGIS Web Map



August 5, 2016

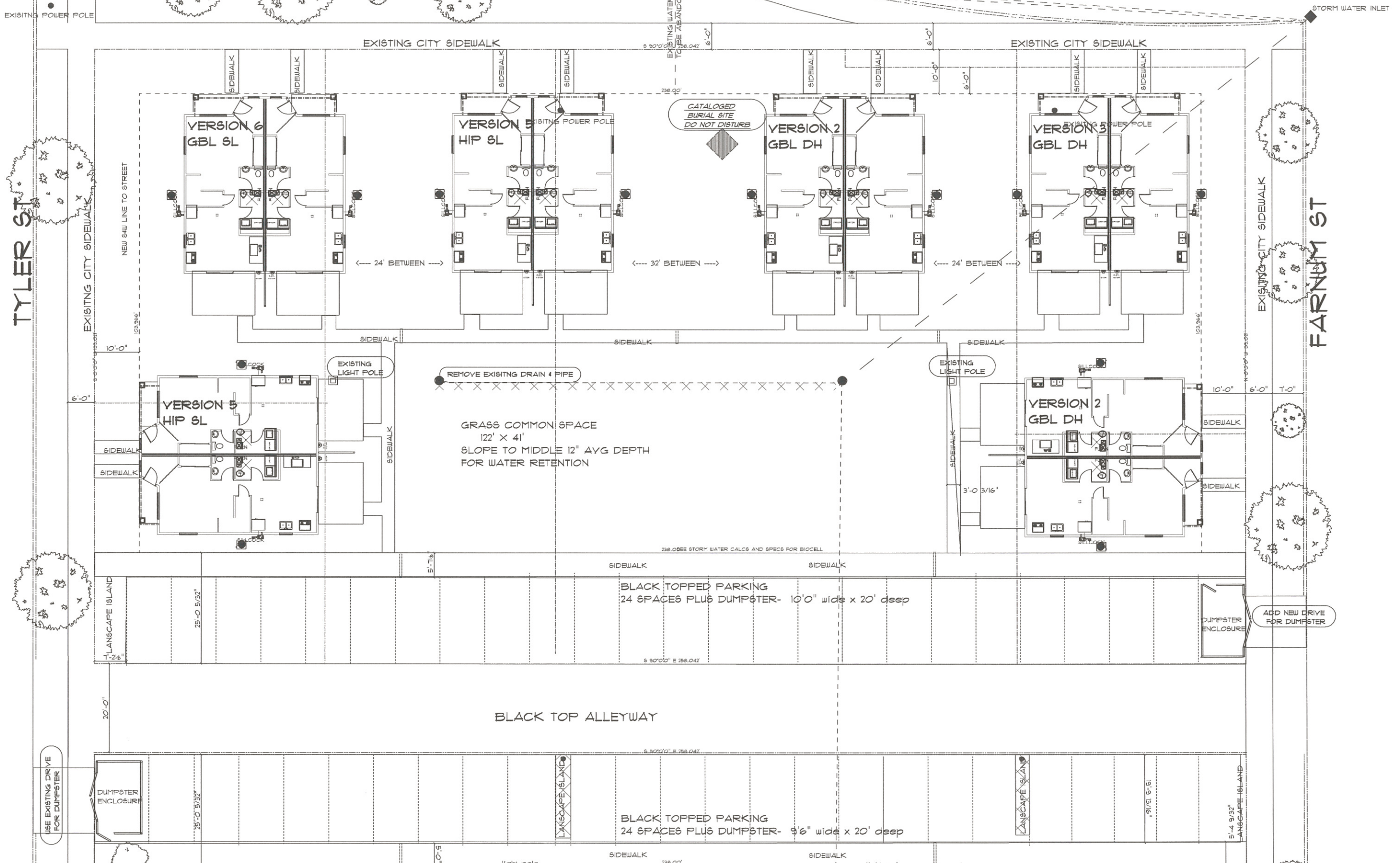
Zoning Information

- | | | | |
|---------------------------|-------------------------------------|-----------------------------|-------------------|
| R1 - SINGLE FAMILY | R5 - MULTIPLE DWELLING | C3 - COMMUNITY BUSINESS | CON - CONSERVANCY |
| R2 - RESIDENCE | R6 - SPECIAL MULTIPLE | M1 - LIGHT INDUSTRIAL | FW - FLOODWAY |
| WR - WASHBURN RESIDENTIAL | PD - PLANNED DEVELOPMENT | M2 - HEAVY INDUSTRIAL | A1 - AGRICULTURAL |
| R3 - SPECIAL RESIDENCE | TND - TRADITIONAL NEIGHBORHOOD DEV. | PS - PUBLIC AND SEMI-PUBLIC | EA |
| R4 - LOW DENSITY MULTIPLE | C1 - LOCAL BUSINESS | PL - PARKING LOT | |
| | C2 - COMMERCIAL | UT - PUBLIC UTILITY | |



OFFGHS2 SITE PLAN PRELIM

7TH STREET



VERSION 6
GBL SL

VERSION 5
HIP SL

VERSION 2
GBL DH

VERSION 3
GBL DH

VERSION 5
HIP SL

VERSION 2
GBL DH

GRASS COMMON SPACE
122' X 41'
SLOPE TO MIDDLE 12" AVG DEPTH
FOR WATER RETENTION

BLACK TOPPED PARKING
24 SPACES PLUS DUMPSTER- 10'0" wide x 20' deep

BLACK TOPPED PARKING
24 SPACES PLUS DUMPSTER- 9'6" wide x 20' deep

BLACK TOP ALLEYWAY

CATALOGUED
BURIAL SITE
DO NOT DISTURB

REMOVE EXISTING DRAIN & PIPE

EXISTING LIGHT POLE

ADD NEW DRIVE
FOR DUMPSTER

USE EXISTING DRIVE
FOR DUMPSTER

DUMPSTER
ENCLOSURE

DUMPSTER
ENCLOSURE

NEW SAW LINE TO STREET

EXISTING CITY SIDEWALK

EXISTING CITY SIDEWALK

10'-0"

6'-0"

LANDSCAPE ISLAND

25'-0" 5/32"

5'-11"

SIDEWALK

SIDEWALK

6'-0"

10'-0"

6'-0"

1'-0"

EXISTING CITY SIDEWALK

FARNUM ST

TYLER ST

20'-0"

25'-0" 5/32"

5'-0"

SIDEWALK

SIDEWALK

LANDSCAPE ISLAND

19'-4" 9/32"

5'-4" 9/32"

LANDSCAPE ISLAND

EXISTING POWER POLE

EXISTING POWER POLE

EXISTING POWER POLE

STORM WATER INLET

EXISTING WATER LINE
TO BE ABANDONED

338.00'

338.00'

238.00'

6'-0"

10'-0"

6'-0"

24' BETWEEN

32' BETWEEN

24' BETWEEN

238.00' SEE STORM WATER CALCS AND SPECS FOR BIOCELL

338.00'

338.00'

238.00'

10'-0"

6'-0"

6'-0"

6'-0"

6'-0"

6'-0"

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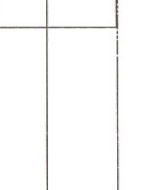
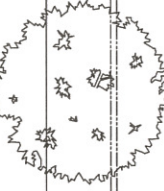
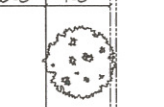
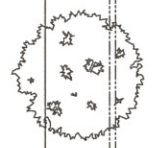
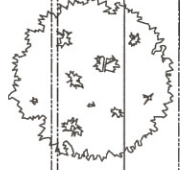
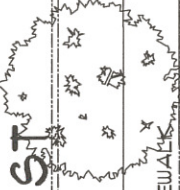
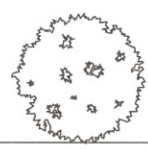
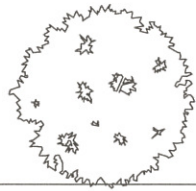
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light pole

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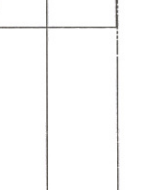
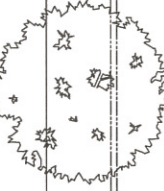
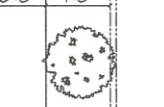
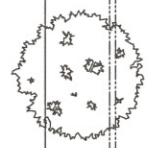
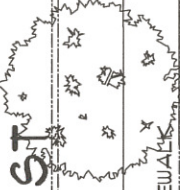
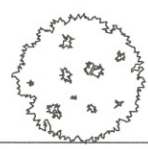
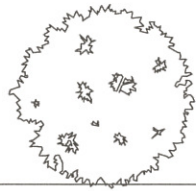
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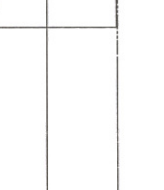
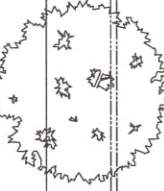
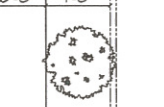
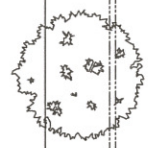
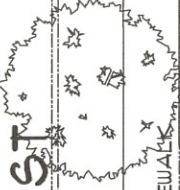
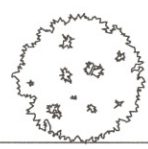
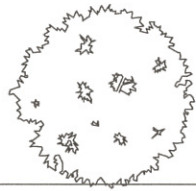
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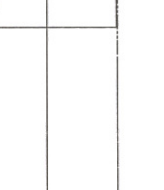
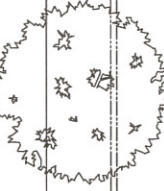
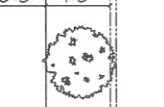
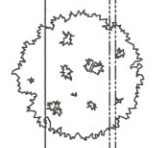
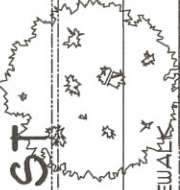
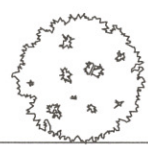
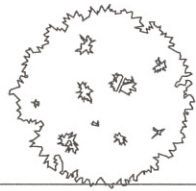
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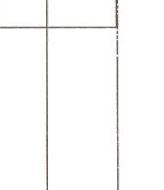
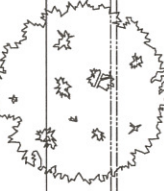
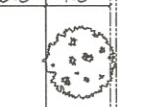
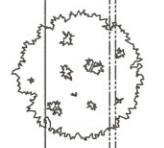
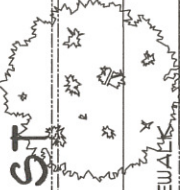
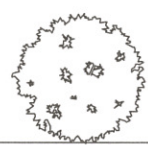
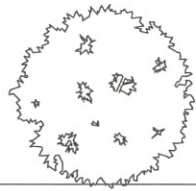
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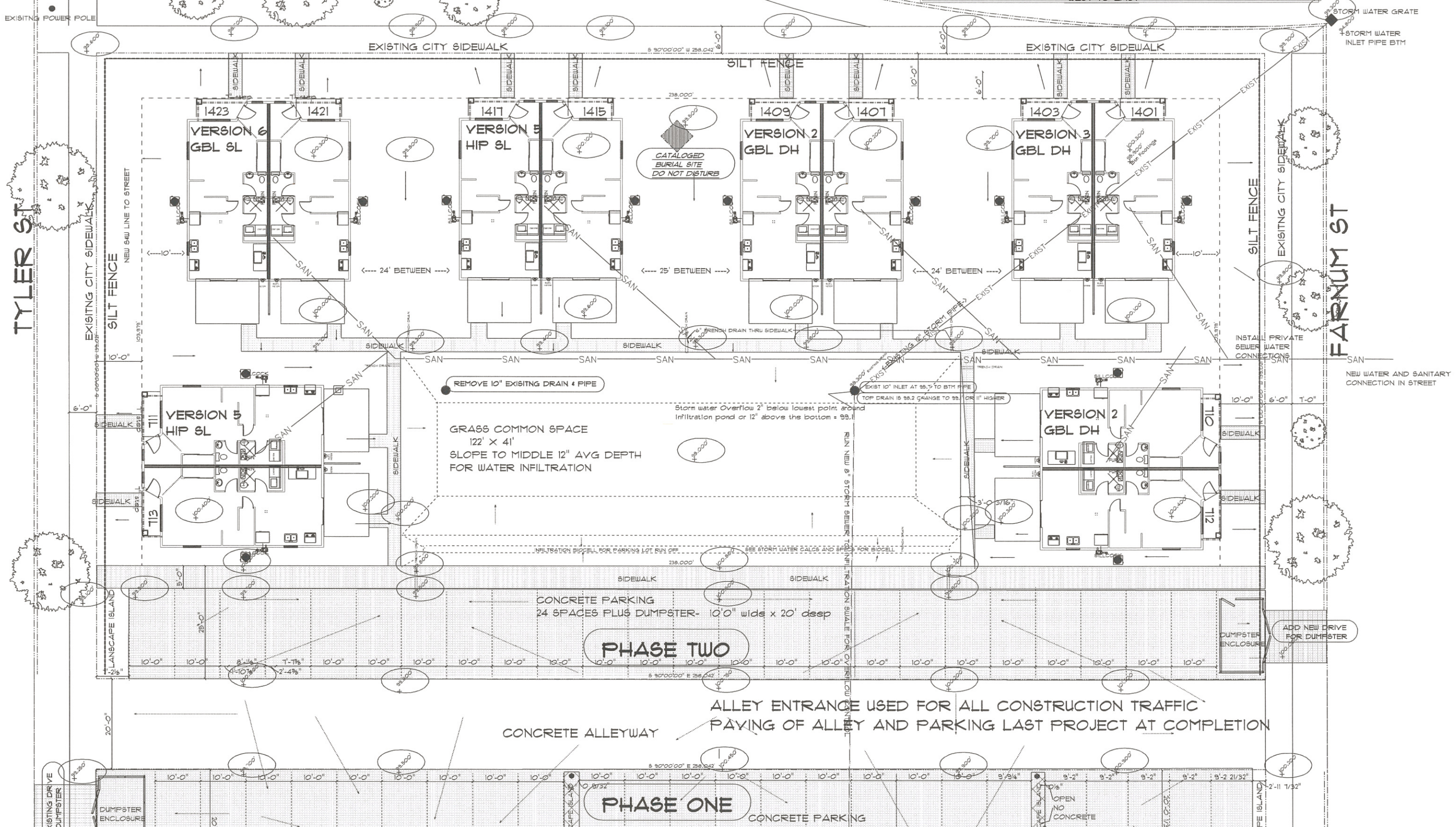
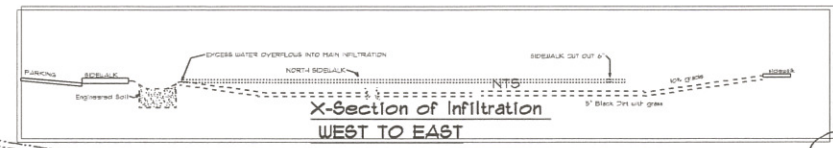
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OFFPGHS2 SITE PLAN PRELIM

TTH STREET



PHASE TWO

PHASE ONE

ALLEY ENTRANCE USED FOR ALL CONSTRUCTION TRAFFIC
PAYING OF ALLEY AND PARKING LAST PROJECT AT COMPLETION

CONCRETE ALLEYWAY

CONCRETE PARKING

CONCRETE PARKING
24 SPACES PLUS DUMPSTER- 10'0" wide x 20' deep

GRASS COMMON SPACE
122' X 41'
SLOPE TO MIDDLE 12" AVG DEPTH
FOR WATER INFILTRATION

REMOVE 10" EXISTING DRAIN & PIPE

CATALOGED BURIAL SITE
DO NOT DISTURB

DUMPSTER ENCLOSURE
ADD NEW DRIVE FOR DUMPSTER

INSTALL PRIVATE SEWER CONNECTIONS
NEW WATER AND SANITARY CONNECTION IN STREET

EXISTING POWER POLE

STORM WATER GRATE
STORM WATER INLET PIPE BTM

TYLER ST

FARNUM ST

EXISTING CITY SIDEWALK
SILT FENCE
NEW 64U LINE TO STREET

EXISTING CITY SIDEWALK
SILT FENCE

LANDSCAPE ISLAND

LANDSCAPE ISLAND

EXISTING DRIVE DUMPSTER
DUMPSTER ENCLOSURE

CAPE ISLAND
OPEN NO CONCRETE



State Street Maple



Autumn Brilliance Serviceberry



London Plane Tree



Jack Ornamental Pear



Regal Prince Oak



Swamp White Oak



Japanese Tree Lilac



Redmond Linden



Black Hills Spruce



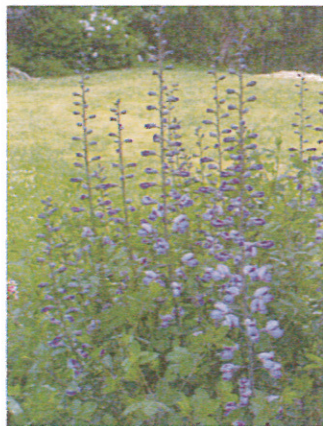
Avalanche Reed Grass



Shenandoah Switch Grass



Blue Ice Amsonia



Twiliite Prairieblues Baptisia



Strawberry Candy Daylily



BoBo Little Hydrangea



Little Devil Ninebark



Tor Birchleaf Spirea



REVISIONS

SHEET NAME & NUMBER

Winona Nursery
Landscape Pics
I-101

PROJECT

Gundersen Lutheran Duplex Project
**Gundersen
Lutheran**

GENERAL CONTRACTOR



DATE: 2-27-2015

SCALE: Presentation

DRAWN BY: Dana Coulter ICNP

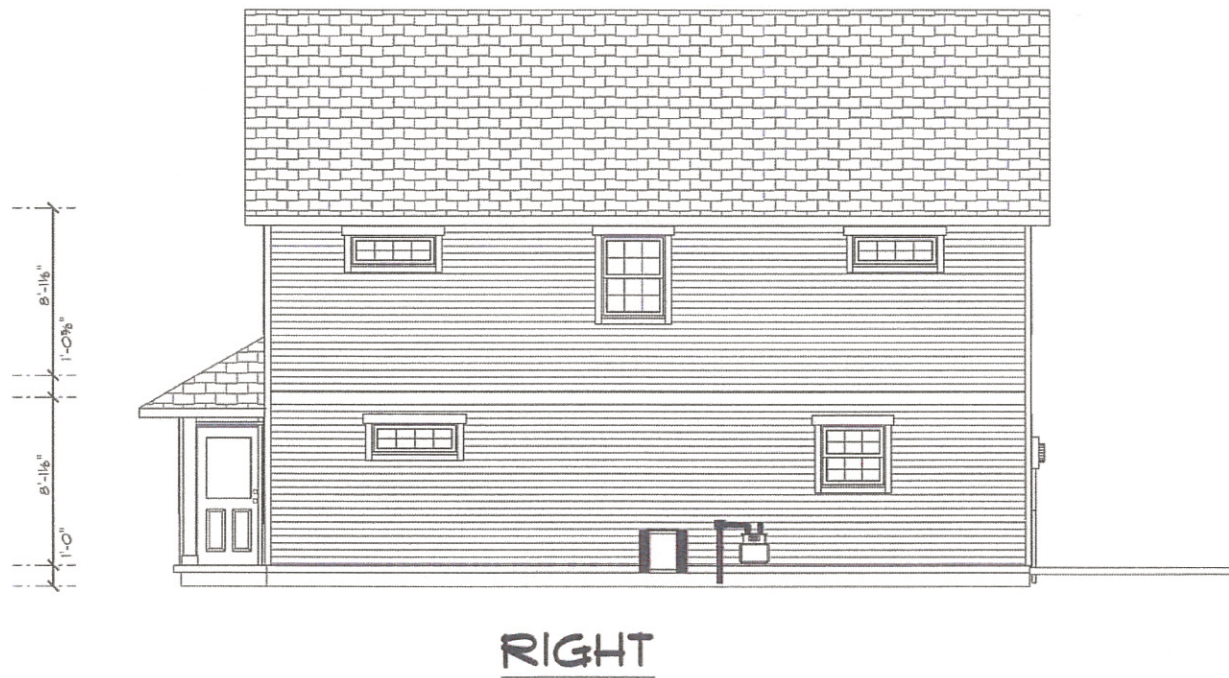
www.winonanursery.com



LEFT



FRONT



RIGHT



BACK

PRELIMINARY USING SAME FOOT PRINT FOR ALL BUILDINGS,
ACTUAL WILL HAVE VARIATIONS FOR EACH PLAN.

NAME	AREA
MAIN LEVEL	672 sq. ft.
UPPER LEVEL	648 sq. ft.
GARAGE	NONE
TOTAL EACH SIDE	1320 sq. ft.
BASEMENT FIN.	NONE
BASEMENT UNFIN.	NONE

SCALE:
1/8" = 1'
DATE:
March 05, 2015
DRAWN BY: ME.
CONTRACT N.
SHEET #

A-2

OFFGHS Duplex Y6

8th St
LaCrosse, WI 54601

MASTERCRAFT HOMES INC.

2300 OAK ST.
LA CROSSE, WI 54603
PHONE: 608-781-7200 FAX: 608-781-7201
EMAIL: INFO@MCHLAX.COM

MasterCraft
Confidence Builders HOMES



FRONT



BACK



LEFT



RIGHT

PRELIMINARY

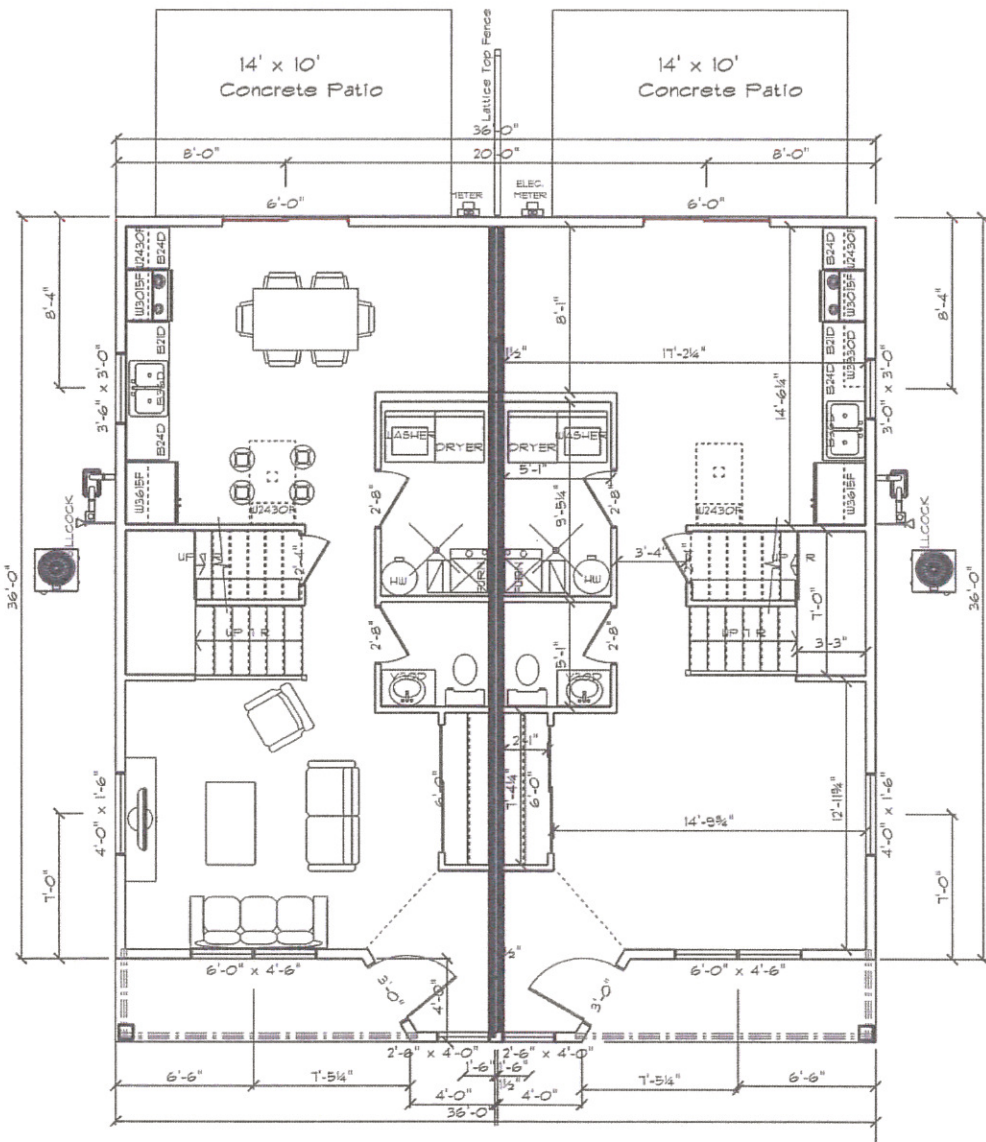
NAME	AREA
MAIN LEVEL	644 sq. ft.
UPPER LEVEL	648 sq. ft.
GARAGE	NONE
TOTAL EACH SIDE	1292 sq. ft.
BASEMENT FIN.	NONE
BASEMENT UNFIN.	NONE

SCALE:
1/8" = 1'
DATE:
February 17, 2015
DRAWN BY: ME
CONTRACT N.
SHEET #

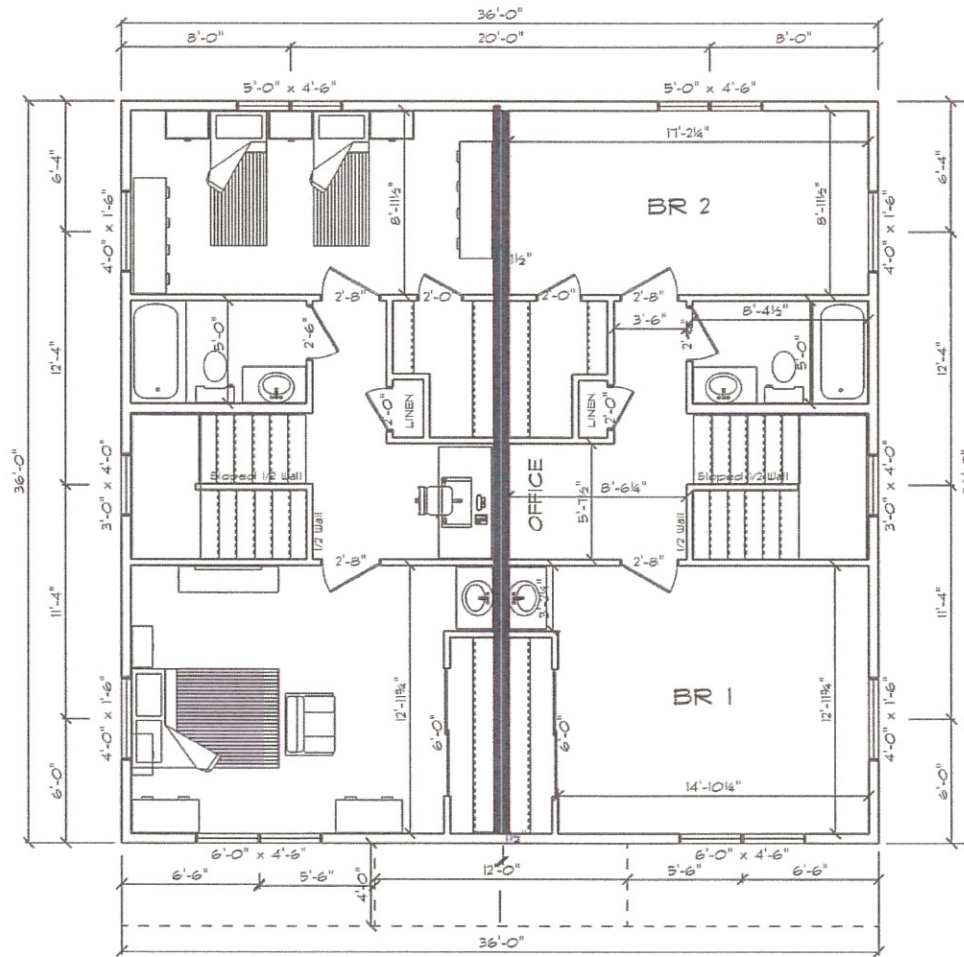
A-2

MasterCraft
Confidence Builders HOMES
MASTERCRAFT HOMES INC.
2300 OAK ST.
LA CROSSE, WI 54603
PHONE: 608-781-7200 FAX: 608-781-7207
EMAIL: INFO@MCHLAX.COM

OPFGHS 2 STORY V5
8th St
LaCrosse, WI 54601



1
A-6 MAIN LEVEL FLOOR PLAN



1
A-7 UPPER LEVEL FLOOR PLAN

SPECIFICATIONS:
 TOTAL NUMBER OF BILL PLATES: 1
 FLOOR JOISTS: 11 1/8" I-JOIST
 FLOOR SHEATHING: 3/4" T&G OSB
 EXTERIOR WALLS:
 UPPER: 2X6 @ 24" O.C.
 MAIN: 2X6X 8'-1 1/8" @ 24" O.C.
 GARAGE: NONE
 EXTERIOR WALL SHEATHING: 15/32" OSB
 HOUSEWRAP: "AIRSTOP" HOUSEWRAP
 ROOF FRAMING: ENGINEERED TRUSSES @ 24" O.C.
 W/ 1" ENERGY HEELS
 ROOF SHEATHING: 15/32" OSB
 ROOF FELT: 15# FELT
 ROOF INSULATION: R-50 BLOWN IN FIBERGLASS
 WINDOWS:
 ALLIANCE VINYL DOUBLE HUNG 4 TRANSOMS
 EXTERIOR HOUSE DOORS:
 "THERMATRUE" STEEL DOORS W/ DEADBOLTS
 GARAGE SERVICE DOORS:
 "THERMATRUE" STEEL DOORS W/ DEADBOLTS
 SKYLIGHTS: N/A
 FIREPLACE: NONE
 INTERIOR RAILINGS: COLONIAL, POST-TO-POST
 FURNACE: 92% EFFICIENT NATURAL GAS
 AIR CONDITIONER: 1 1/2 TON 13 SEER
 WATER HEATER:
 BRADFORD/WHITE 52 GAL ELEC
 WATER SOFTENER: PREP ONLY
 GAS PIPING TO: FURNACE

GAS PIPING MUST BE GROUNDED

SPECIALS:
 IRRIGATION SYSTEM : N/A
 SOUND SYSTEM : N/A
 SECURITY SYSTEM : N/A
 CENTRAL VAC SYSTEM : N/A
 CORNER BEAD : STD.

UNLESS OTHERWISE NOTED:
 HEADER HEIGHTS
 8'-1 1/8" WALLS 6'-3 3/8"
 8'-1 1/8" WALLS 7'-4"

NOTE:
 DO NOT USE CABINETS ON PLAN
 FOR REFERENCE, USE SEPARATE
 CABINET PRINTS.

POCKET DOOR R.O.'S
 2'-0" X 6'-8" = 4'-2" X 1'-0 1/4"
 2'-4" X 6'-8" = 4'-10" X 1'-0 1/4"
 2'-6" X 6'-8" = 5'-2" X 1'-0 1/4"
 2'-8" X 6'-8" = 5'-6" X 1'-0 1/4"
 3'-0" X 6'-8" = 6'-2" X 1'-0 1/4"
 FRENCH DOOR R.O.'S
 2'-6" X 6'-8" = 5'-3" X 82 1/2"
 2'-8" X 6'-8" = 5'-1" X 82 1/2"

NAME	AREA
MAIN LEVEL	672 sq. ft.
UPPER LEVEL	648 sq. ft.
GARAGE	NONE
TOTAL EACH SIDE	1320 sq. ft.
BASEMENT FIN.	NONE
BASEMENT UNFIN.	NONE

MasterCraft
Confidence Builders HOMES

MASTERCRAFT HOMES INC.
 2300 OAK ST.
 LA CROSSE, WI 54603
 PHONE: 608-781-1200 FAX: 608-781-1707
 EMAIL: INFO@CHLAX.COM

OFFPGHS Duplex V2
 8th St
 LaCrosse, WI 54601

SCALE:
 1/8" = 1'

DATE:
 May 06, 2015

DRAWN BY: ME

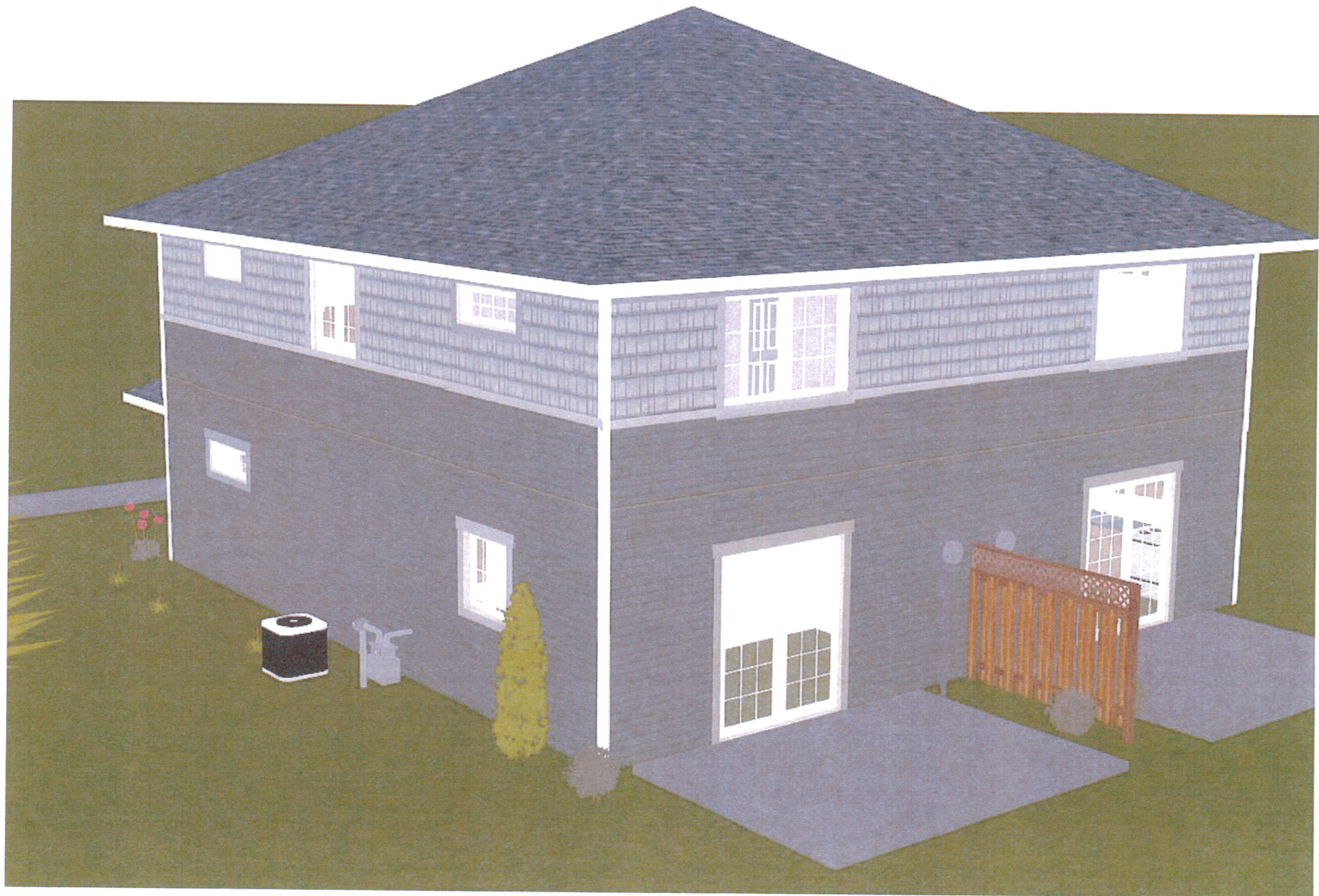
CONTRACT M-

SHEET #

A-6

PRELIMINARY USING SAME FOOT PRINT FOR ALL BUILDINGS,
 ACTUAL WILL HAVE VARIATIONS FOR EACH PLAN.



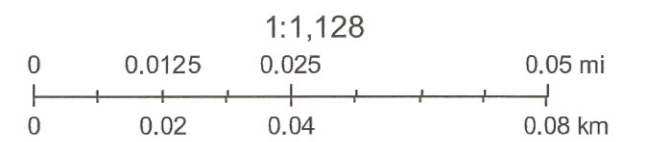


ArcGIS Online Web Map



August 5, 2016

- | | | | |
|------------------------------|------------------------------|------------------------|---------------------|
| County Limits | Burlington Northern Santa Fe | 20 Foot Contour Labels | Streams |
| Subdivision Boundary Labels | CP Rail | 20 Foot Contours | Lake & River Labels |
| Subdivision Boundary Outline | Spur Track | 10 Foot Contour Labels | Lakes & Rivers |
| Federal & State Roads | Address Labels | 10 Foot Contours | |
| County & Town Roads | Address Points | 2 Foot Contour Labels | |
| | | 2 Foot Contours | |

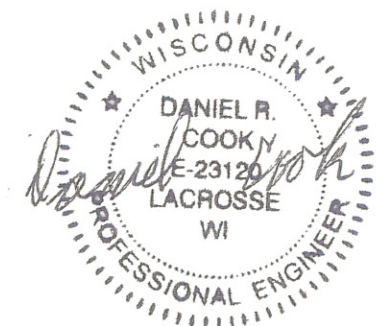
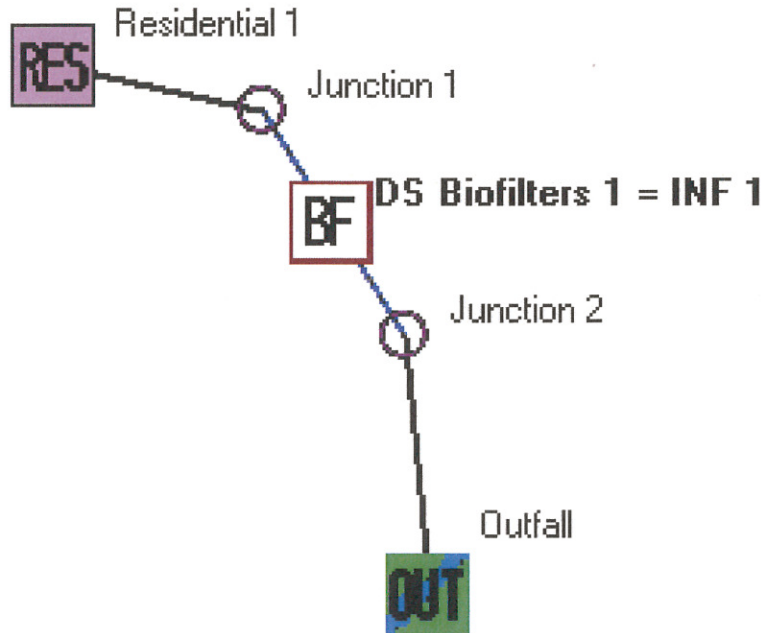


La Crosse County, WI
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community
 La Crosse County

SCHEMATIC OF WinSLAMM MODEL

For: MasterCraft at Gunderson Lutheran Systems

Location: East side of 8th Street South, between Farnum Street and Tyler Street



Data file name: H:\M\Misc. M\Mastercraft Homes Inc\9404-001 OFPGHS\020
Stormwater Calculations\Permits\City of La Crosse Milti-family\Storm
Water\WinSLAMM\8th and Tyler to Farnum West Side La Crosse.mdb
WinSLAMM Version 10.1.6
Rain file name: C:\WinSLAMM Files\Rain Files\WisReg - Madison WI 1981.RAN
Particulate Solids Concentration file name: C:\WinSLAMM Files\v10.1
WI_AVG01.pscx
Runoff Coefficient file name: C:\WinSLAMM Files\WI_SL06 Dec06.rsvx
Residential Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other
Urban Dec06.std
Institutional Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust
Dec06.std
Commercial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust
Dec06.std
Industrial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust
Dec06.std
Other Urban Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other
Urban Dec06.std
Freeway Street Delivery file name: C:\WinSLAMM Files\Freeway Dec06.std
Apply Street Delivery Files to Adjust the After Event Load Street Dirt Mass
Balance: False
Pollutant Relative Concentration file name: C:\WinSLAMM Files\WI_GEO03.ppdx
Cost Data file name:
Seed for random number generator: -42
Study period starting date: 01/01/81 Study period ending date: 12/31/81
Start of Winter Season: 12/02 End of Winter Season: 03/12
Date: 06-16-2015 Time: 15:47:24
Site information:

Family Plan for Gunderson Health Systems.

Client: MasterCraft Builders

West side of 8th Street South between Farnum Street and Tyler Street

LU# 1 - Residential:	Residential 1	Total area (ac):	0.146
13 - Paved Parking 1:	0.117 ac.	Connected	Connected
31 - Sidewalks 1:	0.029 ac.	Connected	Connected

Control Practice 1: Biofilter CP# 1 (DS) - DS Biofilters 1 = INF 1

1. Top area (square feet) = 600
2. Bottom area (square feet) = 100
3. Depth (ft): 3.5
4. Biofilter width (ft) - for Cost Purposes Only: 10
5. Infiltration rate (in/hr) = 3.6
6. Random infiltration rate generation? No
7. Infiltration rate fraction (side): 0
8. Infiltration rate fraction (bottom): 1
9. Depth of biofilter that is rock filled (ft) 0
10. Fraction of rock filled volume as voids = 0
11. Engineered soil infiltration rate: 3.6
12. Engineered soil depth (ft) = 2
13. Engineered soil void ratio = 0.27
14. Percent solids reduction due to flow through engineered soil = 80
15. Biofilter peak to average flow ratio = 3.8
16. Number of biofiltration control devices = 1
17. Particle size distribution file: Not needed - calculated by program
18. Initial water surface elevation (ft): 0

Soil Data	Soil Type Fraction in Eng. Soil
User-Defined Soil Type	1.000

Biofilter Outlet/Discharge Characteristics:

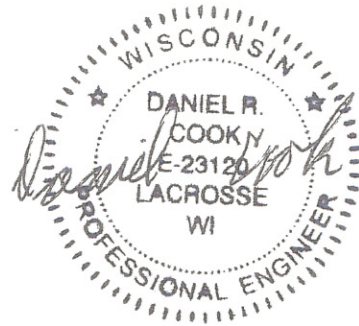
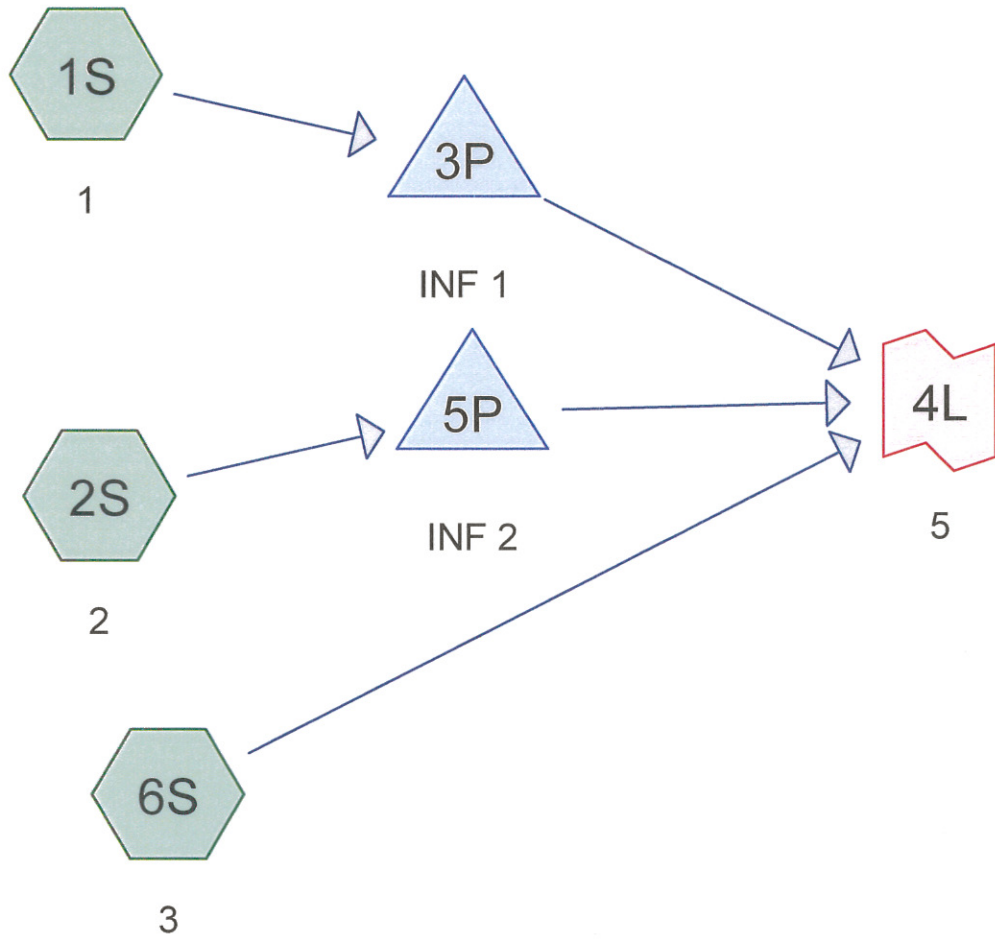
- Outlet type: Broad Crested Weir
1. Weir crest length (ft): 5
 2. Weir crest width (ft): 20
 3. Height of datum to bottom of weir opening: 2.75

SLAMM for Windows Version 10.1.1.6
 (c) Copyright Robert Pitt and John Voorhees 2012
 All Rights Reserved

Data file name: H:\M\Misc. M\Mastercraft Homes Inc\9404-001 OFFGHS\020 Stormwater Calculations\Permits\City of La Crosse Milti-family\Storm Water\WinSLAMM\8th and Tyler to Farnum West Side La Crosse.mdb
 Data file description: Family Plan for Gunderson Health Systems.
 Client: MasterCraft Builders

West side of 8th Street South between Farnum Street and Tyler Street
 Rain file name: C:\WinSLAMM Files\Rain Files\WisReg - Madison WI 1981.RAN
 Particulate Solids Concentration file name: C:\WinSLAMM Files\v10.1 WI_AVG01.pscx
 Runoff Coefficient file name: C:\WinSLAMM Files\WI_SL06 Dec06.rsvx
 Residential Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std
 Institutional Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
 Commercial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
 Industrial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std
 Other Urban Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std
 Freeway Street Delivery file name: C:\WinSLAMM Files\Freeway Dec06.std
 Pollutant Relative Concentration file name: C:\WinSLAMM Files\WI_GEO03.ppdx
 Start of Winter Season: 12/02 End of Winter Season: 03/12
 Model Run Start Date: 01/01/81 Model Run End Date: 12/31/81
 Date of run: 06-16-2015 Time of run: 15:48:24
 Total Area Modeled (acres): 0.146
 Years in Model Run: 1.00

	Runoff Volume (cu ft)	Percent Runoff Volume Reduction	Particulate Solids		Particulate Solids		Percent Particulate Solids Reduction
			Conc. (mg/L)	Yield (lbs)	Conc. (mg/L)	Yield (lbs)	
Total of all Land Uses without Controls:	11082	-	119.1	82.38	82.38	-	-
Outfall Total with Controls:	2132	80.76%	119.1	15.85	15.85	80.76%	80.76%
Annualized Total After Outfall Controls:	2137			15.89	15.89		



Routing Diagram for 8th Street Tyler to Farnum
 Prepared by Davy Engineering, Printed 6/17/2015
 HydroCAD® 10.00-13 s/n 08695 © 2014 HydroCAD Software Solutions LLC

Summary for Subcatchment 1S: 1

This area drains to the infiltration area.

Runoff = 0.16 cfs @ 11.65 hrs, Volume= 0.045 af, Depth> 0.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-19.99 hrs, dt= 0.03 hrs
 WI 6-96-hour 24.00 hrs 2-yr24hr Rainfall=3.00"

	Area (sf)	CN	Description
*	4,600	98	Parking
*	975	98	sidewalks
*	1,290	98	sidewalks
*	1,680	98	patios
*	440	98	porch roofs
*	7,800	98	roof
	9,823	39	>75% Grass cover, Good, HSG A
	26,608	76	Weighted Average
	9,823	39	36.92% Pervious Area
	16,785	98	63.08% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Summary for Subcatchment 2S: 2

This area drains to the southeast infiltration.

Runoff = 0.00 cfs @ 12.04 hrs, Volume= 0.001 af, Depth> 0.46"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-19.99 hrs, dt= 0.03 hrs
 WI 6-96-hour 24.00 hrs 2-yr24hr Rainfall=3.00"

	Area (sf)	CN	Description
*	350	98	roof
*	40	98	Porch
*	0	98	sidewalk
	460	39	>75% Grass cover, Good, HSG A
	850	66	Weighted Average
	460	39	54.12% Pervious Area
	390	98	45.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Summary for Subcatchment 6S: 3

This area drains to the streets.

Runoff = 0.00 cfs @ 18.09 hrs, Volume= 0.000 af, Depth> 0.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-19.99 hrs, dt= 0.03 hrs
 WI 6-96-hour 24.00 hrs 2-yr24hr Rainfall=3.00"

Area (sf)	CN	Description
* 0	98	roof
* 420	98	sidewalk
3,470	39	>75% Grass cover, Good, HSG A
3,890	45	Weighted Average
3,470	39	89.20% Pervious Area
420	98	10.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Summary for Pond 3P: INF 1

Inflow Area = 0.611 ac, 63.08% Impervious, Inflow Depth > 0.89" for 2-yr24hr event
 Inflow = 0.16 cfs @ 11.65 hrs, Volume= 0.045 af
 Outflow = 0.16 cfs @ 11.71 hrs, Volume= 0.045 af, Atten= 0%, Lag= 4.0 min
 Discarded = 0.16 cfs @ 11.71 hrs, Volume= 0.045 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.01-19.99 hrs, dt= 0.03 hrs
 Peak Elev= 99.09' @ 11.71 hrs Surf.Area= 2,164 sf Storage= 38 cf

Plug-Flow detention time= 3.9 min calculated for 0.045 af (100% of inflow)
 Center-of-Mass det. time= 3.1 min (804.6 - 801.5)

Volume	Invert	Avail.Storage	Storage Description
#1	99.07'	10,189 cf	21.00'W x 101.00'L x 2.00'H Prismatic Z=10.0

Device	Routing	Invert	Outlet Devices
#1	Discarded	99.07'	3.600 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 0.00'
#2	Primary	100.50'	5.0' long x 34.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Discarded OutFlow Max=0.18 cfs @ 11.71 hrs HW=99.09' (Free Discharge)
 ↕1=Exfiltration (Controls 0.18 cfs)

Primary OutFlow Max=0.00 cfs @ 0.01 hrs HW=99.07' (Free Discharge)
 ↕2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Pond 5P: INF 2

Inflow Area = 0.020 ac, 45.88% Impervious, Inflow Depth > 0.46" for 2-yr24hr event
 Inflow = 0.00 cfs @ 12.04 hrs, Volume= 0.001 af
 Outflow = 0.00 cfs @ 12.67 hrs, Volume= 0.001 af, Atten= 26%, Lag= 37.7 min
 Discarded = 0.00 cfs @ 12.67 hrs, Volume= 0.001 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.01-19.99 hrs, dt= 0.03 hrs

Peak Elev= 99.88' @ 12.67 hrs Surf.Area= 24 sf Storage= 5 cf

Plug-Flow detention time= 26.6 min calculated for 0.001 af (100% of inflow)
 Center-of-Mass det. time= 25.6 min (865.0 - 839.3)

Volume	Invert	Avail.Storage	Storage Description
#1	99.50'	178 cf	1.00'W x 5.00'L x 2.00'H Prismatic Z=3.0

Device	Routing	Invert	Outlet Devices
#1	Discarded	99.50'	3.600 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 0.00'
#2	Primary	100.00'	3.0' long x 10.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Discarded OutFlow Max=0.00 cfs @ 12.67 hrs HW=99.88' (Free Discharge)
 ↑1=Exfiltration (Controls 0.00 cfs)

Primary OutFlow Max=0.00 cfs @ 0.01 hrs HW=99.50' (Free Discharge)
 ↑2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Summary for Link 4L: 5

Inflow Area = 0.720 ac, 56.13% Impervious, Inflow Depth > 0.00" for 2-yr24hr event
 Inflow = 0.00 cfs @ 18.09 hrs, Volume= 0.000 af
 Primary = 0.00 cfs @ 18.09 hrs, Volume= 0.000 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.01-19.99 hrs, dt= 0.03 hrs

Summary for Subcatchment 1S: 1

This area drains to the infiltration area.

Runoff = 3.38 cfs @ 1.46 hrs, Volume= 0.129 af, Depth= 2.54"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-19.99 hrs, dt= 0.03 hrs
 WI 3-hour&10-day 3.00 hrs 100-yr03Hr Rainfall=5.00"

	Area (sf)	CN	Description
*	4,600	98	Parking
*	975	98	sidewalks
*	1,290	98	sidewalks
*	1,680	98	patios
*	440	98	porch roofs
*	7,800	98	roof
	9,823	39	>75% Grass cover, Good, HSG A
	26,608	76	Weighted Average
	9,823	39	36.92% Pervious Area
	16,785	98	63.08% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Summary for Subcatchment 2S: 2

This area drains to the southeast infiltration.

Runoff = 0.07 cfs @ 1.48 hrs, Volume= 0.003 af, Depth= 1.73"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-19.99 hrs, dt= 0.03 hrs
 WI 3-hour&10-day 3.00 hrs 100-yr03Hr Rainfall=5.00"

	Area (sf)	CN	Description
*	350	98	roof
*	40	98	Porch
*	0	98	sidewalk
	460	39	>75% Grass cover, Good, HSG A
	850	66	Weighted Average
	460	39	54.12% Pervious Area
	390	98	45.88% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Summary for Subcatchment 6S: 3

This area drains to the streets.

Runoff = 0.06 cfs @ 1.56 hrs, Volume= 0.003 af, Depth= 0.44"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.01-19.99 hrs, dt= 0.03 hrs
 WI 3-hour&10-day 3.00 hrs 100-yr03Hr Rainfall=5.00"

Area (sf)	CN	Description
* 0	98	roof
* 420	98	sidewalk
3,470	39	>75% Grass cover, Good, HSG A
3,890	45	Weighted Average
3,470	39	89.20% Pervious Area
420	98	10.80% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry,

Summary for Pond 3P: INF 1

Inflow Area = 0.611 ac, 63.08% Impervious, Inflow Depth = 2.54" for 100-yr03Hr event
 Inflow = 3.38 cfs @ 1.46 hrs, Volume= 0.129 af
 Outflow = 0.41 cfs @ 2.30 hrs, Volume= 0.129 af, Atten= 88%, Lag= 50.8 min
 Discarded = 0.41 cfs @ 2.30 hrs, Volume= 0.129 af
 Primary = 0.00 cfs @ 0.01 hrs, Volume= 0.000 af

Routing by Stor-Ind method, Time Span= 0.01-19.99 hrs, dt= 0.03 hrs
 Peak Elev= 100.03' @ 2.30 hrs Surf.Area= 4,837 sf Storage= 3,287 cf

Plug-Flow detention time= 96.4 min calculated for 0.129 af (100% of inflow)
 Center-of-Mass det. time= 96.3 min (201.9 - 105.6)

Volume	Invert	Avail.Storage	Storage Description
#1	99.07'	10,189 cf	21.00'W x 101.00'L x 2.00'H Prismatic Z=10.0

Device	Routing	Invert	Outlet Devices
#1	Discarded	99.07'	3.600 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 0.00'
#2	Primary	100.50'	5.0' long x 34.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.68 2.70 2.70 2.64 2.63 2.64 2.64 2.63

Discarded OutFlow Max=0.41 cfs @ 2.30 hrs HW=100.03' (Free Discharge)
 ↳ **1=Exfiltration** (Controls 0.41 cfs)

Primary OutFlow Max=0.00 cfs @ 0.01 hrs HW=99.07' (Free Discharge)
 ↳ **2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Summary for Pond 5P: INF 2

[88] Warning: Qout>Qin may require smaller dt or Finer Routing

Inflow Area = 0.020 ac, 45.88% Impervious, Inflow Depth = 1.73" for 100-yr03Hr event
 Inflow = 0.07 cfs @ 1.48 hrs, Volume= 0.003 af
 Outflow = 0.08 cfs @ 1.42 hrs, Volume= 0.003 af, Atten= 0%, Lag= 0.0 min
 Discarded = 0.00 cfs @ 1.42 hrs, Volume= 0.001 af
 Primary = 0.07 cfs @ 1.42 hrs, Volume= 0.002 af

Routing by Stor-Ind method, Time Span= 0.01-19.99 hrs, dt= 0.03 hrs
 Peak Elev= 100.05' @ 1.42 hrs Surf.Area= 35 sf Storage= 10 cf

Plug-Flow detention time= 10.4 min calculated for 0.003 af (100% of inflow)
 Center-of-Mass det. time= 10.3 min (120.4 - 110.1)

Volume	Invert	Avail.Storage	Storage Description
#1	99.50'	178 cf	1.00'W x 5.00'L x 2.00'H Prismaoid Z=3.0

Device	Routing	Invert	Outlet Devices
#1	Discarded	99.50'	3.600 in/hr Exfiltration over Surface area Conductivity to Groundwater Elevation = 0.00'
#2	Primary	100.00'	3.0' long x 10.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 Coef. (English) 2.49 2.56 2.70 2.69 2.68 2.69 2.67 2.64

Discarded OutFlow Max=0.00 cfs @ 1.42 hrs HW=100.05' (Free Discharge)
 ↑1=Exfiltration (Controls 0.00 cfs)

Primary OutFlow Max=0.07 cfs @ 1.42 hrs HW=100.05' (Free Discharge)
 ↑2=Broad-Crested Rectangular Weir (Weir Controls 0.07 cfs @ 0.53 fps)

Summary for Link 4L: 5

Inflow Area = 0.720 ac, 56.13% Impervious, Inflow Depth = 0.09" for 100-yr03Hr event
 Inflow = 0.13 cfs @ 1.54 hrs, Volume= 0.005 af
 Primary = 0.13 cfs @ 1.54 hrs, Volume= 0.005 af, Atten= 0%, Lag= 0.0 min

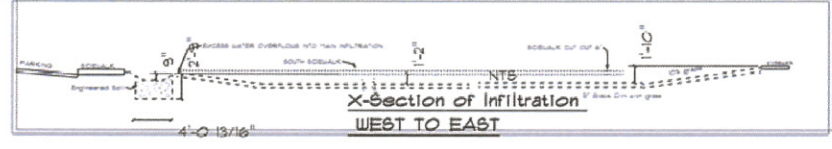
Primary outflow = Inflow, Time Span= 0.01-19.99 hrs, dt= 0.03 hrs

EROSION CONTROL PLAN

GUNDERSON HEALTH SYSTEMS PARKING LOT

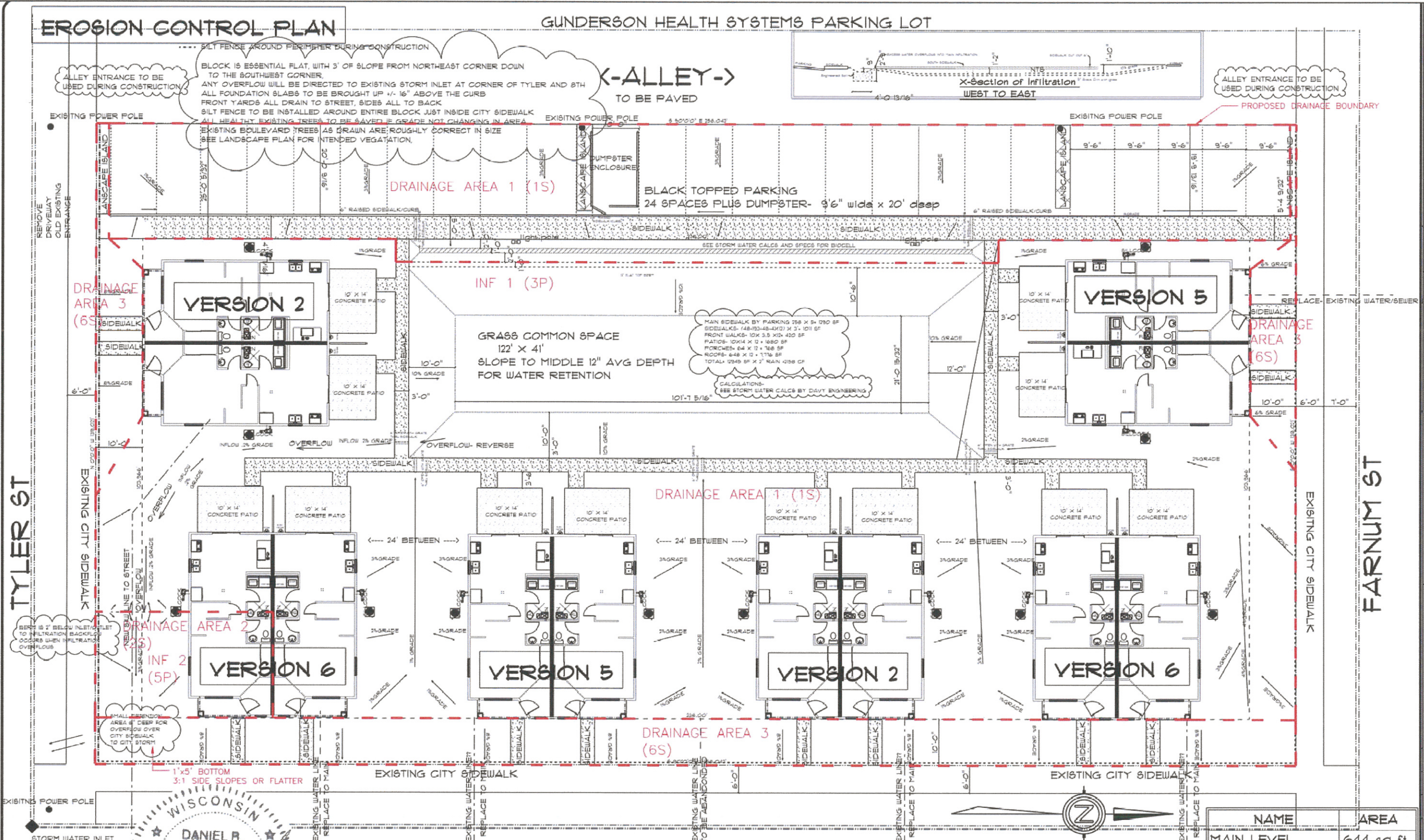
BLOCK IS ESSENTIAL FLAT, WITH 3' OF SLOPE FROM NORTHEAST CORNER DOWN TO THE SOUTHWEST CORNER. ANY OVERFLOW WILL BE DIRECTED TO EXISTING STORM INLET AT CORNER OF TYLER AND 8TH. ALL FOUNDATION SLABS TO BE BROUGHT UP +/- 16" ABOVE THE CURB. FRONT YARDS ALL DRAIN TO STREET, SIDES ALL TO BACK. SILT FENCE TO BE INSTALLED AROUND ENTIRE BLOCK JUST INSIDE CITY SIDEWALK. ALL HEALTHY EXISTING TREES TO BE SAVED IF GRADE NOT CHANGING IN AREA. EXISTING BOULEVARD TREES AS DRAWN ARE ROUGHLY CORRECT IN SIZE. (SEE LANDSCAPE PLAN FOR INTENDED VEGETATION.)

K-ALLEY->
TO BE PAVED



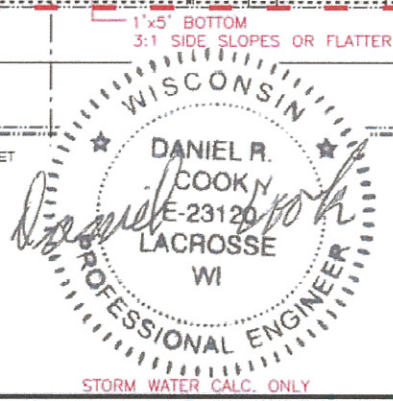
ALLEY ENTRANCE TO BE USED DURING CONSTRUCTION

PROPOSED DRAINAGE BOUNDARY

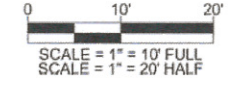


INF 1 (3P)
GRASS COMMON SPACE
122' X 41'
SLOPE TO MIDDLE 12" AVG DEPTH FOR WATER RETENTION

MAIN SIDEWALK BY PARKING 258' X 5' 1790 SF
SIDEWALKS- (48'X34'-4'X12') X 3' 1011 SF
FRONT WALKS- 10'X 3.5' X12' 420 SF
PORCHES- 64' X 12' 1768 SF
ROOFS- 848' X 12' 1716 SF
TOTAL- 6245 SF X 2' RAIN 12490 CF
CALCULATIONS- SEE STORM WATER CALC BY DAVY ENGINEERING



8TH STREET OFFPGHS SITE PLAN FINAL



NAME	AREA
MAIN LEVEL	644 sq. ft.
UPPER LEVEL	648 sq. ft.
GARAGE	NONE
TOTAL EACH SIDE	1292 sq. ft.
BASEMENT FIN.	NONE
BASEMENT UNFIN.	NONE

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REVISION DATE	REVISIONS
FIELDBOOK: XXX	SCALE: AS SHOWN
DRAWN: KK & DRC	CHECKED: DRC
DATE: 06/16/2015	
DAVY ENGINEERING CO. LA CROSSE, WISCONSIN 	
STORM WATER OAK FOREST PARTNERS GHS 8TH ST. S, LA CROSSE, WI	
PROJECT NUMBER	9404-001.020
SHEET NO.	X OF X