DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME		
					BIO 1		
DMA 1	75924	ROOF	1.0	75924	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	0	PAVEMENT	1.0	0			
	0	LANDSCAPE	0.1	0			
TOTAL >				75924	0.04	3037	4306

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME		
					BIO 2		
DMA 2	0	ROOF	1.0	0	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	0	PAVEMENT	1.0	0			
	0	LANDSCAPE	0.1	0			
TOTAL >				0	0.04	0	225

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME		
					BIO 3		
DMA 3	5485	ROOF	1.0	5485	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	0	PAVEMENT	1.0	0			
	0	LANDSCAPE	0.1	0			
TOTAL >				5485	0.04	219	225

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME		
					BIO 4		
DMA 4	0	ROOF	1.0	0	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	0	PAVEMENT	1.0	0			
	0	LANDSCAPE	0.1	0			
TOTAL >				0	0.04	0	2406

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME		
					BIO 5		
DMA 5	29346	ROOF	1.0	29346	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	0	PAVEMENT	1.0	0			
	0	LANDSCAPE	0.1	0			
TOTAL >				29346	0.04	1174	973

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME		
					BIO 6		
DMA 6	5695	ROOF	1.0	5695	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	0	PAVEMENT	1.0	0			
	0	LANDSCAPE	0.1	0			
TOTAL >				5695	0.04	228	259

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME		
					BIO 7		
DMA 7	3966	ROOF	1.0	3966	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	0	PAVEMENT	1.0	0			
	0	LANDSCAPE	0.1	0			
TOTAL >				3966	0.04	159	1161

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME		
					BIO 8		
DMA 8	74318	ROOF	1.0	74318	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	0	PAVEMENT	1.0	0			
	0	LANDSCAPE	0.1	0			
TOTAL >				74318	0.04	2973	4058

NOT TREATING	
NOT TREATING NAME	NOT TREATING AREA
NT 1	19652

SELF TREATING	
SELF TREATING NAME	SELF TREATING AREA
ST1	11946
ST2	40718
ST3	991
ST4	8400
ST5	8505

DMA	TOTAL AREA (SF)
1	80,230
2	8,029
3	5,710
4	73,797
5	30,319
6	5,954
7	5,567
8	78,376

PRELIMINARY STORMWATER CONTROL TABLES (2040)

NORTHGATE TOWN SQUARE

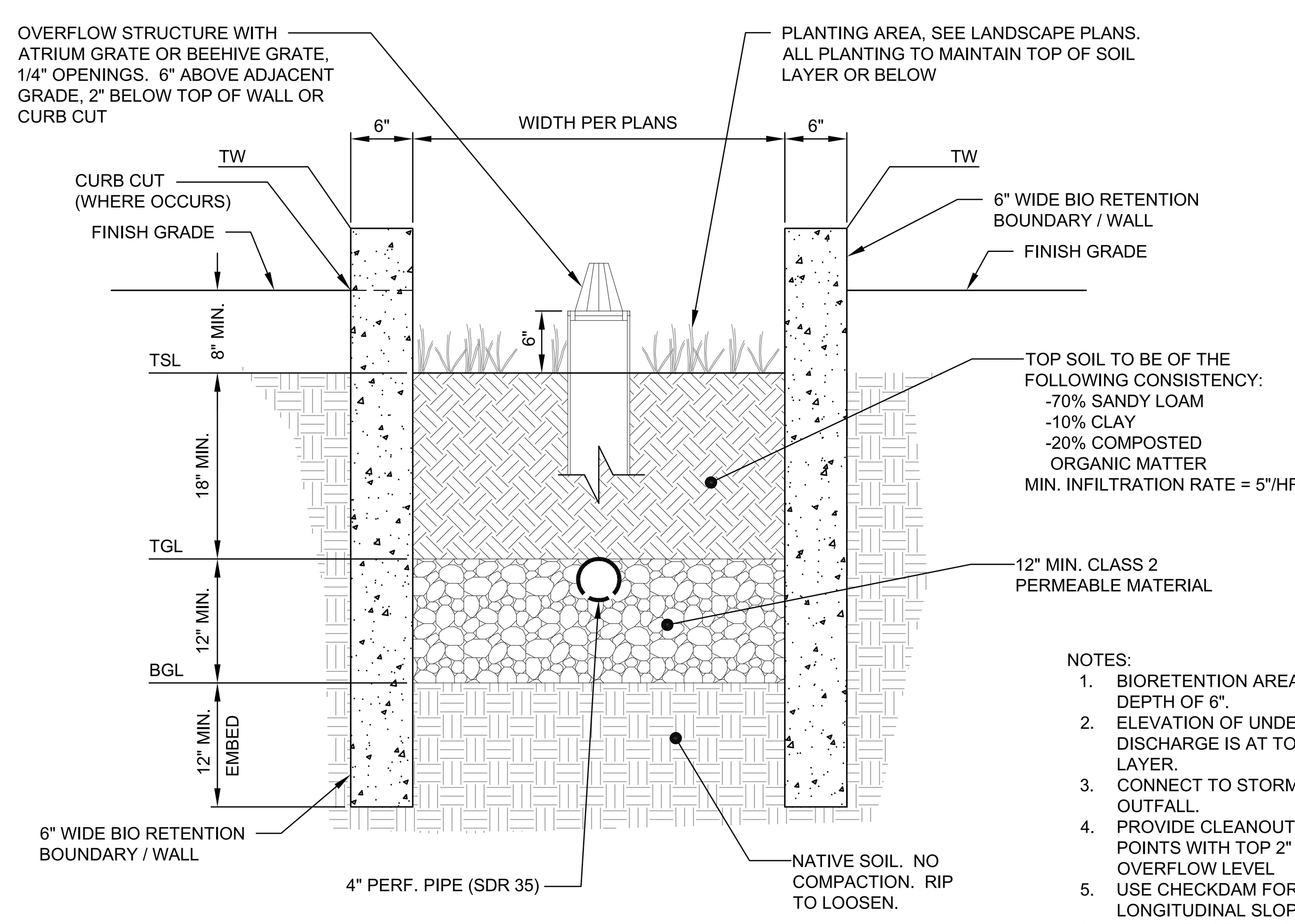
MerloneGeier Partners

CSW ST2

URBAN ARENA

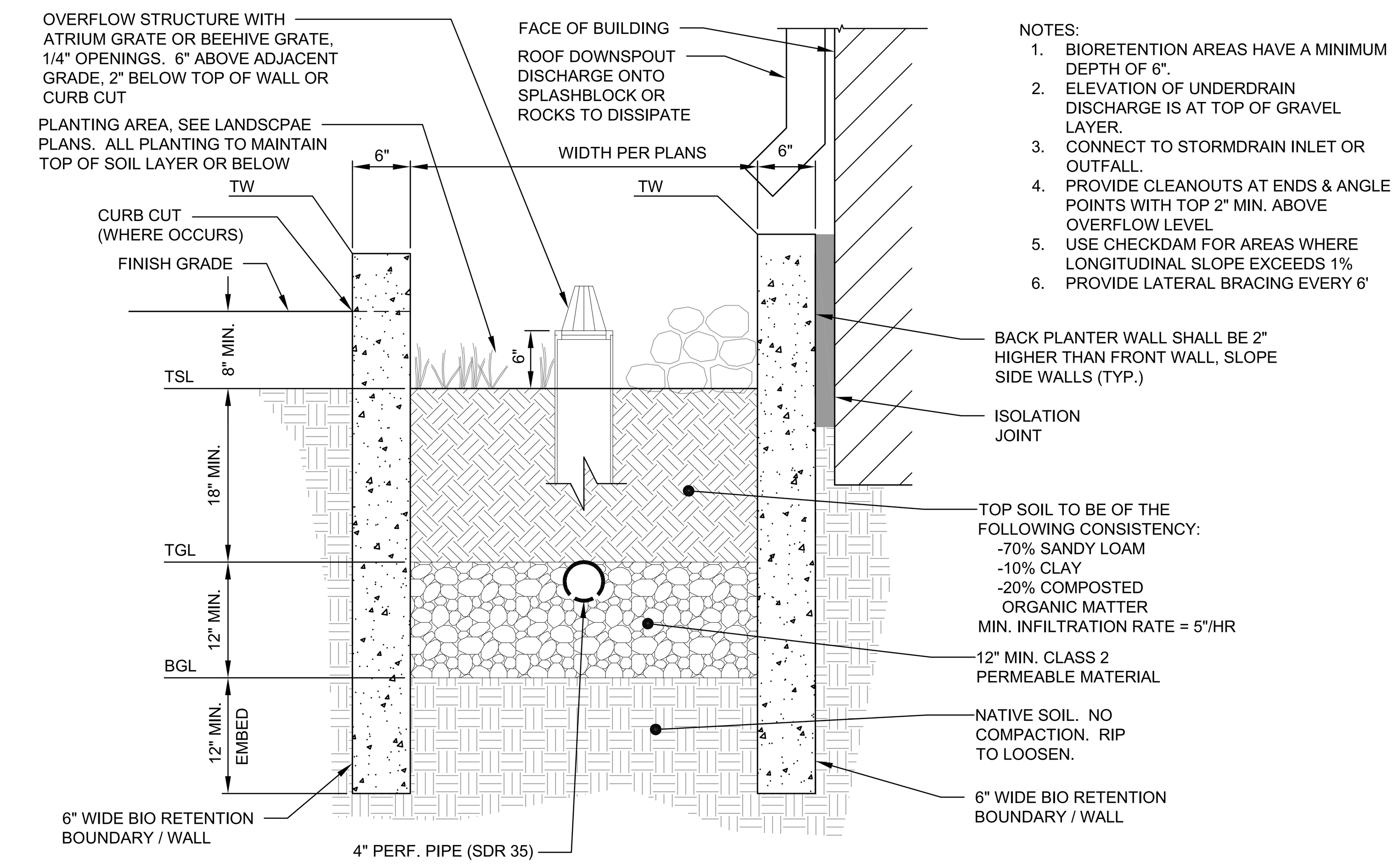
STUDIO T SQUARE

FIELD PAOLI



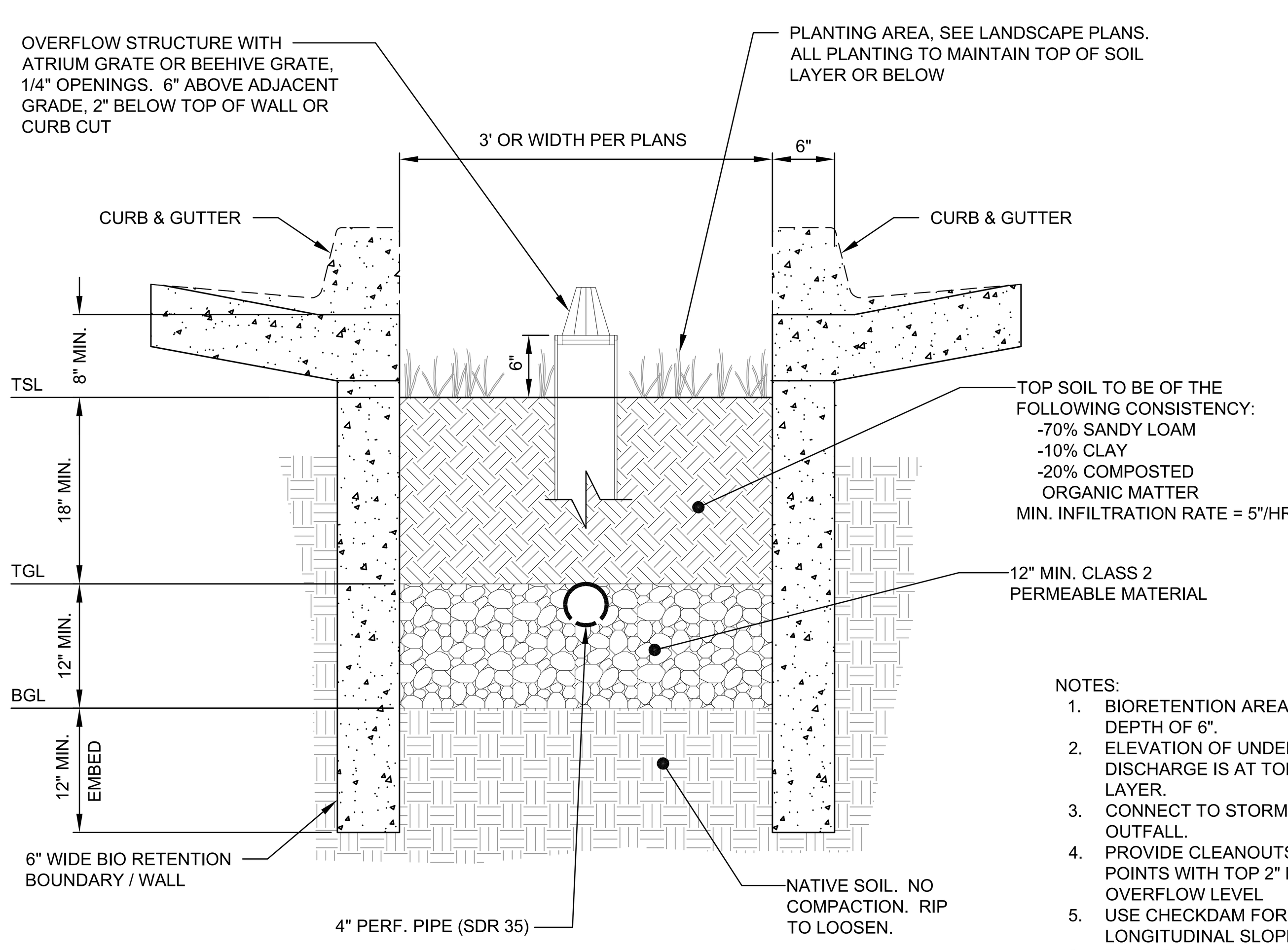
NOTES:
1. BIORETENTION AREAS HAVE A MINIMUM DEPTH OF 6".
2. ELEVATION OF UNDERDRAIN DISCHARGE IS AT TOP OF GRAVEL LAYER.
3. CONNECT TO STORMDRAIN INLET OR OUTFALL.
4. PROVIDE CLEANOUTS AT ENDS & ANGLE POINTS WITH TOP 2" MIN. ABOVE OVERFLOW LEVEL
5. USE CHECKDAM FOR AREAS WHERE LONGITUDINAL SLOPE EXCEEDS 1%
6. PROVIDE LATERAL BRACING EVERY 6'

1 **BIORETENTION AREA DETAIL**
SCALE: 1" = 1'



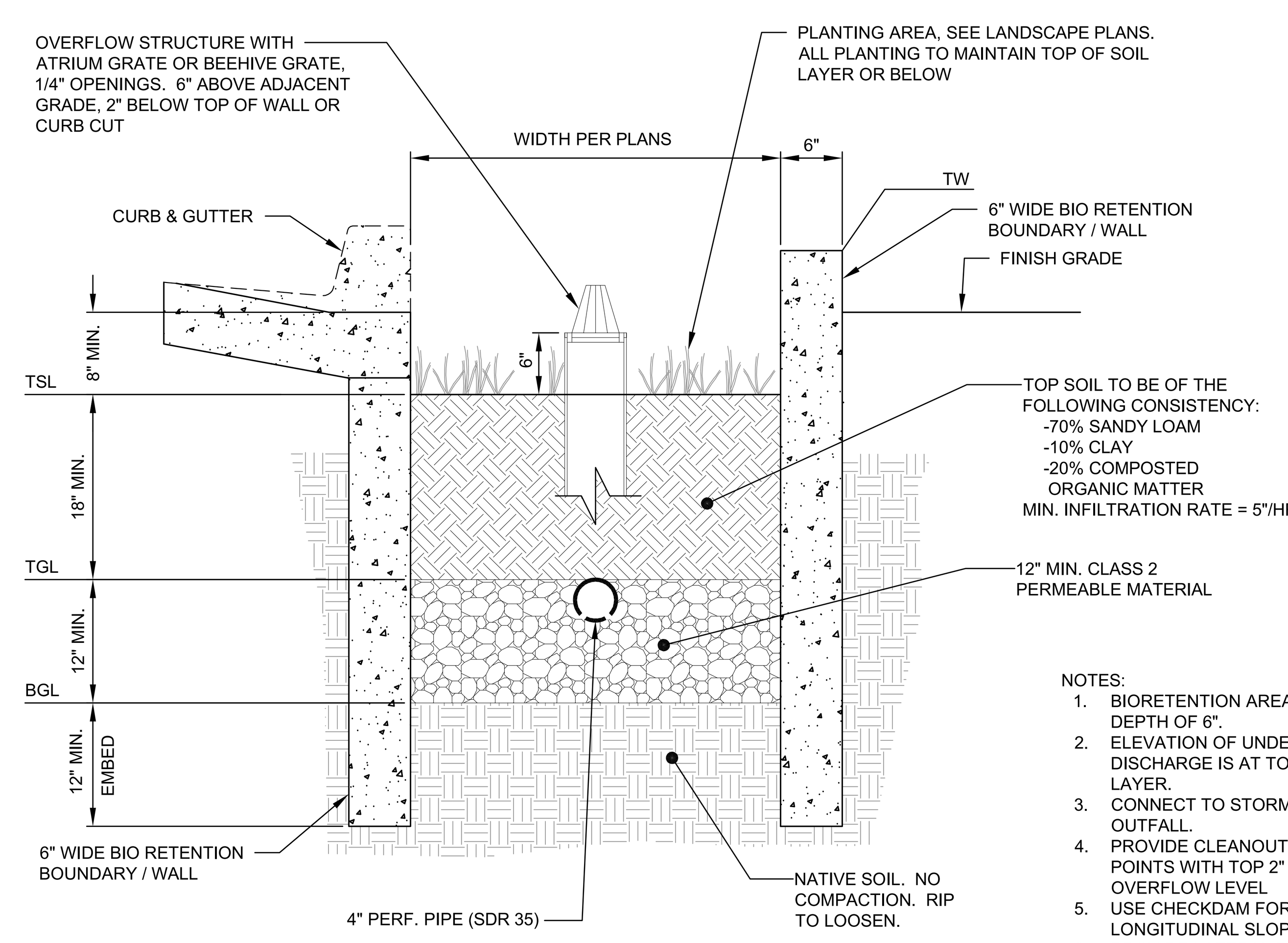
NOTES:
1. BIORETENTION AREAS HAVE A MINIMUM DEPTH OF 6".
2. ELEVATION OF UNDERDRAIN DISCHARGE IS AT TOP OF GRAVEL LAYER.
3. CONNECT TO STORMDRAIN INLET OR OUTFALL.
4. PROVIDE CLEANOUTS AT ENDS & ANGLE POINTS WITH TOP 2" MIN. ABOVE OVERFLOW LEVEL
5. USE CHECKDAM FOR AREAS WHERE LONGITUDINAL SLOPE EXCEEDS 1%
6. PROVIDE LATERAL BRACING EVERY 6'

2 **BIORETENTION AREA DETAIL**
SCALE: 1" = 1'



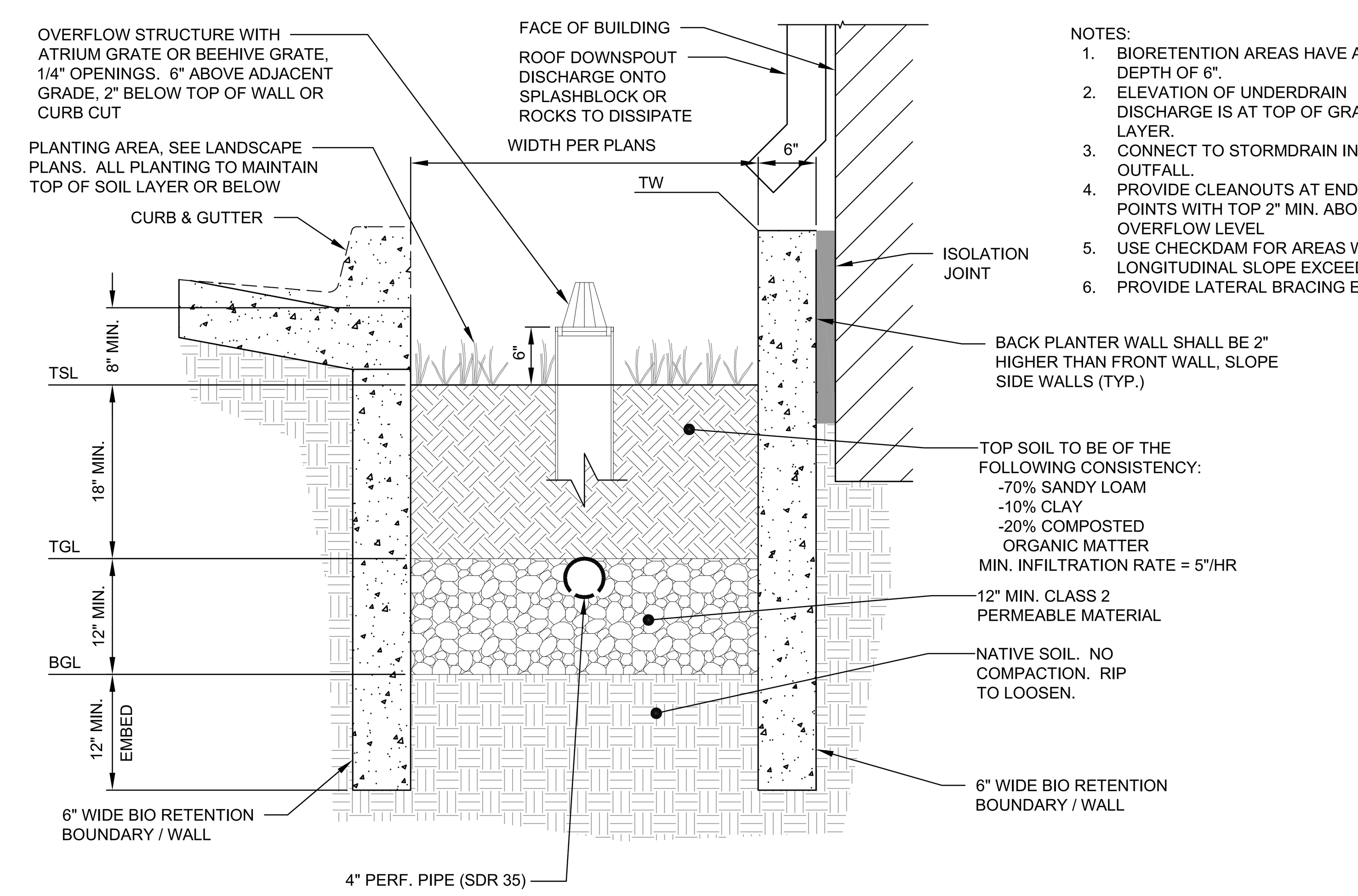
NOTES:
1. BIORETENTION AREAS HAVE A MINIMUM DEPTH OF 6".
2. ELEVATION OF UNDERDRAIN DISCHARGE IS AT TOP OF GRAVEL LAYER.
3. CONNECT TO STORMDRAIN INLET OR OUTFALL.
4. PROVIDE CLEANOUTS AT ENDS & ANGLE POINTS WITH TOP 2" MIN. ABOVE OVERFLOW LEVEL
5. USE CHECKDAM FOR AREAS WHERE LONGITUDINAL SLOPE EXCEEDS 1%
6. PROVIDE LATERAL BRACING EVERY 6'

3 **BIORETENTION AREA DETAIL**
SCALE: 1" = 1'



NOTES:
1. BIORETENTION AREAS HAVE A MINIMUM DEPTH OF 6".
2. ELEVATION OF UNDERDRAIN DISCHARGE IS AT TOP OF GRAVEL LAYER.
3. CONNECT TO STORMDRAIN INLET OR OUTFALL.
4. PROVIDE CLEANOUTS AT ENDS & ANGLE POINTS WITH TOP 2" MIN. ABOVE OVERFLOW LEVEL
5. USE CHECKDAM FOR AREAS WHERE LONGITUDINAL SLOPE EXCEEDS 1%
6. PROVIDE LATERAL BRACING EVERY 6'

4 **BIORETENTION AREA DETAIL**
SCALE: 1" = 1'



NOTES:
1. BIORETENTION AREAS HAVE A MINIMUM DEPTH OF 6".
2. ELEVATION OF UNDERDRAIN DISCHARGE IS AT TOP OF GRAVEL LAYER.
3. CONNECT TO STORMDRAIN INLET OR OUTFALL.
4. PROVIDE CLEANOUTS AT ENDS & ANGLE POINTS WITH TOP 2" MIN. ABOVE OVERFLOW LEVEL
5. USE CHECKDAM FOR AREAS WHERE LONGITUDINAL SLOPE EXCEEDS 1%
6. PROVIDE LATERAL BRACING EVERY 6'

5 **BIORETENTION AREA DETAIL**
SCALE: 1" = 1'

PRELIMINARY STORMWATER CONTROL DETAILS

NORTHGATE TOWN SQUARE

MerloneGeier Partners
CSW ST2
URBAN ARENA
STUDIO T SQUARE
FIELD PAOLI

C-4.32

OVERALL PRELIMINARY UTILITY PLAN - 2025

NORTHGATE TOWN SQUARE

MerloneGeier Partners

CSW ST2

URBAN ARENA

STUDIO T SQUARE

FIELD PAOLI

C-5.10

NORTHGATE TOWN SQUARE

PRELIMINARY UTILITY PLAN - 2025

MerloneGeier Partners | CSW ST2 | URBAN ARENA | STUDIO T SQUARE | FIELD PAOLI

PRELIMINARY UTILITY PLAN - 2025

NORTHGATE TOWN SQUARE

MerloneGeier Partners

CSW ST2

URBAN ARENA

STUDIO T SQUARE

FIELD PAOLI

C-5.12

PRELIMINARY UTILITY PLAN - 2025

NORTHGATE TOWN SQUARE

MerloneGeier Partners | CSW ST2 | URBAN ARENA | STUDIO T SQUARE | FIELD PAOLI

C-5.13

PRELIMINARY UTILITY PLAN - 2025

NORTHGATE TOWN SQUARE

MerloneGeier Partners
CSW ST2
URBAN ARENA
STUDIO T SQUARE
FIELD PAOLI

C-5.14

PRELIMINARY UTILITY PLAN - 2025

NORTHGATE TOWN SQUARE

C-5.15

PRELIMINARY UTILITY PLAN - 2025

NORTHGATE TOWN SQUARE

MerloneGeier Partners

CSW ST2

URBAN ARENA

STUDIO T SQUARE

FIELD PAOLI

C-5.16

PRELIMINARY UTILITY PLAN - 2025

NORTHGATE TOWN SQUARE

MerloneGeier Partners

CSW ST2

URBAN ARENA

STUDIO T SQUARE

FIELD PAOLI

C-5.17

PRELIMINARY UTILITY PLAN - 2025

NORTHGATE TOWN SQUARE

MerloneGeier Partners

CSW ST2

URBAN ARENA

STUDIO T SQUARE

FIELD PAOLI

C-5.18

OVERALL PRELIMINARY UTILITY PLAN - 2040

NORTHGATE TOWN SQUARE

MerloneGeier Partners

CSW ST2

URBAN ARENA

STUDIO T SQUARE

FIELD PAOLI

C-5.20

PRELIMINARY UTILITY PLAN - 2040

NORTHGATE TOWN SQUARE

MerloneGeier Partners | CSW ST2 | URBAN ARENA | STUDIO T SQUARE | FIELD PAOLI

C-5.22

NORTHGATE TOWN SQUARE

PRELIMINARY UTILITY PLAN - 2040

MerloneGeier Partners

CSW ST2

URBAN ARENA

STUDIO T SQUARE

FIELD PAOLI

C-5.23

PRELIMINARY UTILITY PLAN - 2040

NORTHGATE TOWN SQUARE

MerloneGeier Partners

CSW ST2

URBAN ARENA

STUDIO T SQUARE

FIELD PAOLI

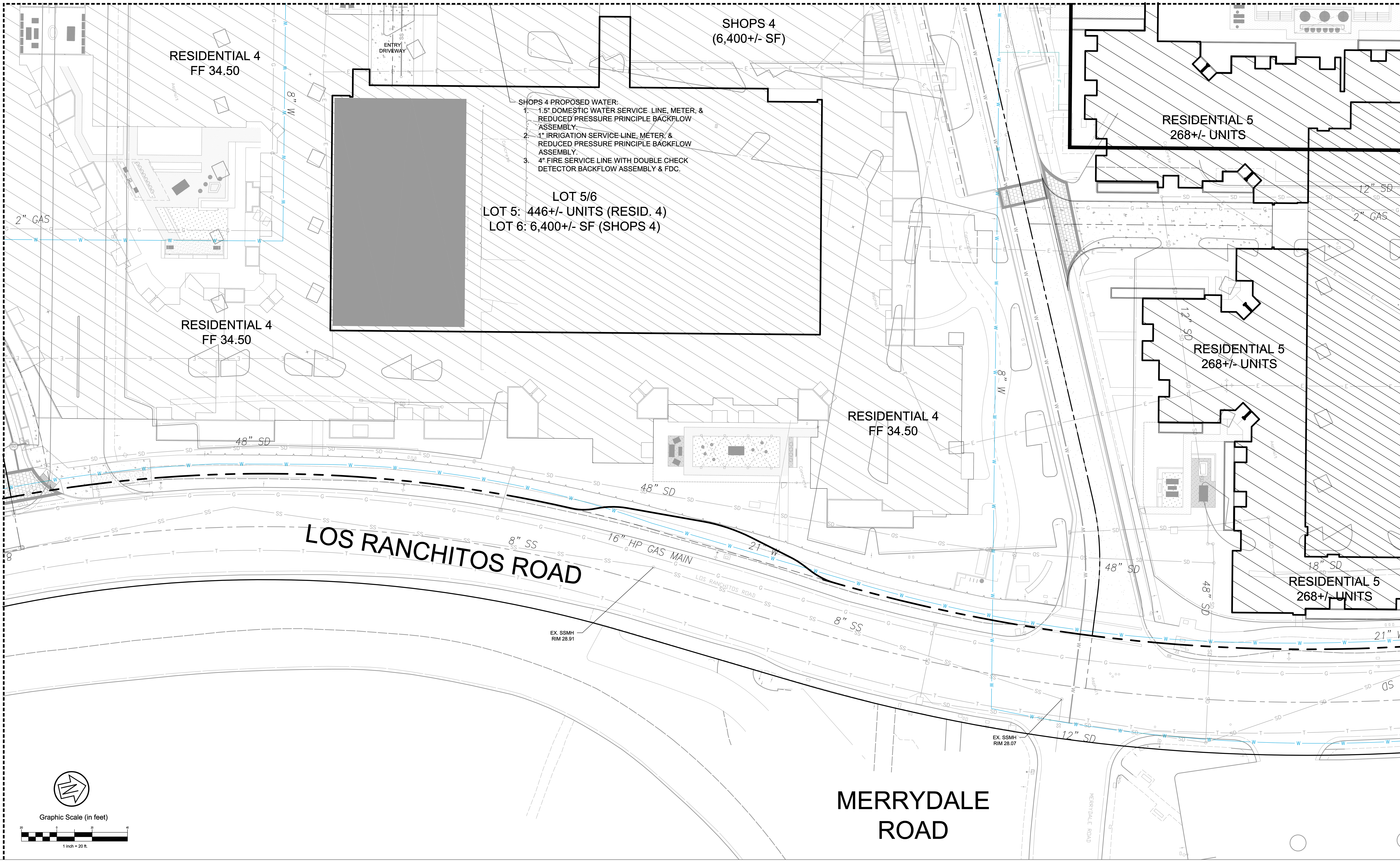
C-5.25

PRELIMINARY UTILITY PLAN - 2040

NORTHGATE TOWN SQUARE

MerloneGeier Partners
CSW ST2
URBAN ARENA
STUDIO T SQUARE
FIELD PAOLI

C-5.26



PRELIMINARY UTILITY PLAN - 2040

NORTHGATE TOWN SQUARE

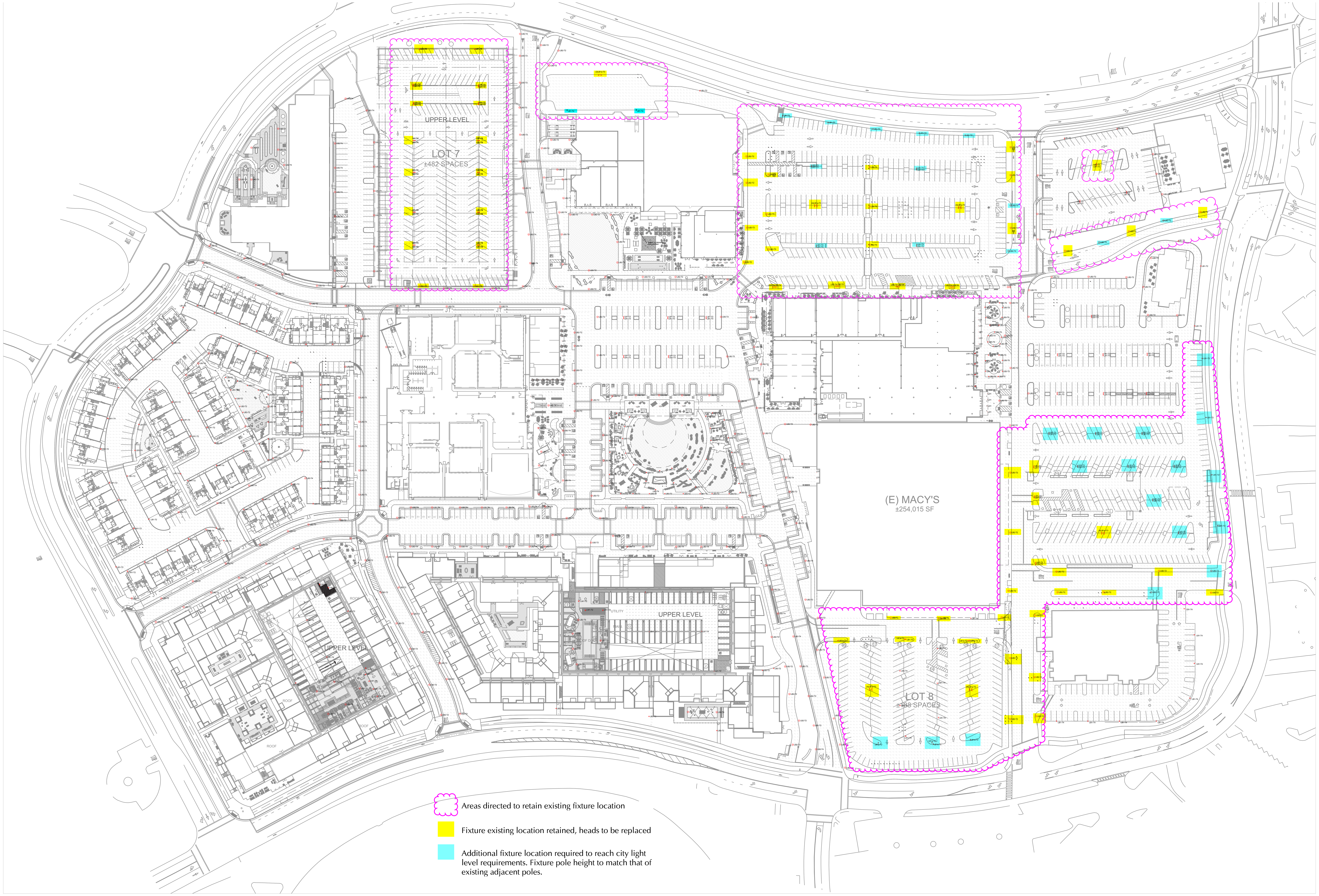
C-5.28

PRELIMINARY UTILITY PLAN - 2040

NORTHGATE TOWN SQUARE

MerloneGeier Partners
CSW ST2
URBAN ARENA
STUDIO T SQUARE
FIELD PAOLI

C-5.29



Calculation Summary Phase 1					
Label	CalcType	Units	Avg	Min	Avg/Min
Site	Illuminance	Fc	2.90	0.5	5.80

San Rafael City footcandle requirement for site:

- one-half (½) foot-candle overlap at walkways and parking lots,
- fall below one (1) foot-candle at the property line

This calculation is based on the best information provided to Oculus by the architect, engineer or interior designer. The calculation is also based on photometric information supplied by the lighting product manufacturers. Design changes such as ceiling heights, ceiling, wall and floor reflectances of all interior surfaces including partition walls may adversely affect the overall light levels. Actual footcandle levels may vary. Oculus is in no way responsible as to the veracity of these calculations, and they should only be used as a design reference tool. Any and all photometric calculations for emergency purposes must be verified and approved by Electrical Engineer.

NORTHGATE TOWN SQUARE

REDEVELOPMENT PLAN

MerloneGeier Partners CSW ST2 OCULUS LIGHT STUDIO URBAN ARENA STUDIO T SQUARE FIELD PAOLI

5855 Green Valley Circle Ste 306
Culver City CA 90230 USA

P: +1 310 715 8333
F: +1 310 715 8377
www.oculuslightstudio.com

Northgate Town Center
San Rafael, CA

Developed for Client

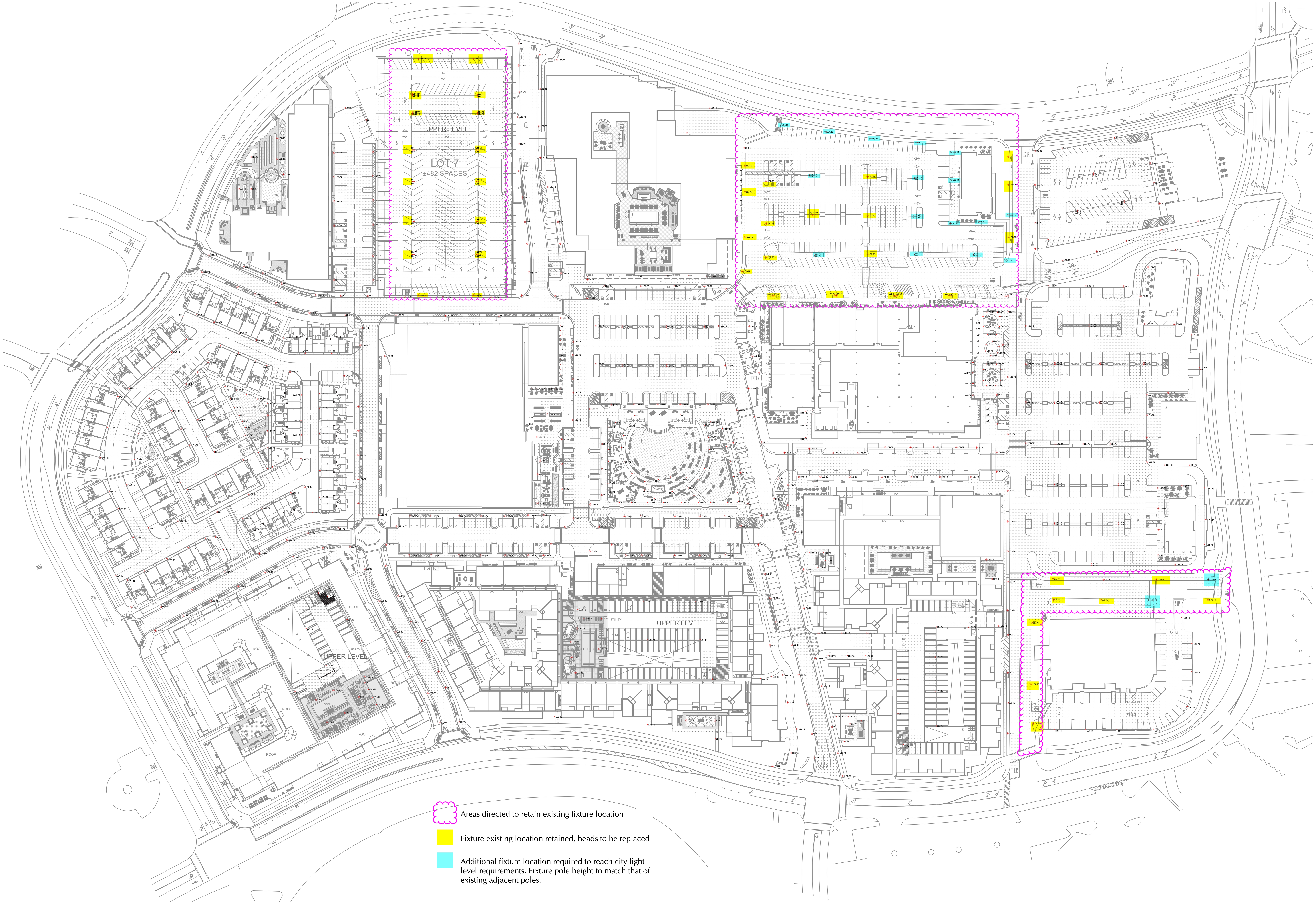
NOT FOR CONSTRUCTION
FOR REFERENCE ONLY

Date	Description	Revision

Job. No.	22-055
Date	05/02/2023
Drawn by	YL
Checked by	JP
Scale	1/64" = 1'-0"

LT- Site Lighting Phase 1 2025

LT-1



Calculation Summary Phase 2					
Label	CalcType	Units	Avg	Min	Avg/Min
Site	Illuminance	Fc	3.18	0.5	6.36
Residential Rooftop	Illuminance	Fc	3.81	0.2	19.05

San Rafael City footcandle requirement for site:

- one-half (½) foot-candle overlap at walkways and parking lots,
- fall below one (1) foot-candle at the property line

This calculation is based on the best information provided to Oculus by the architect, engineer or interior designer. The calculation is also based on photometric information supplied by the lighting product manufacturers. Design changes such as ceiling heights, ceiling, wall and floor reflectances of all interior surfaces including partition walls may adversely affect the overall light levels. Actual footcandle levels may vary. Oculus is in no way responsible as to the veracity of these calculations, and they should only be used as a design reference tool. Any and all photometric calculations for emergency purposes must be verified and approved by Electrical Engineer.

5855 Green Valley Circle Ste 306
Culver City CA 90230 USA

P: +1 310 715 8333
F: +1 310 715 8377
www.oculuslightstudio.com

Northgate Town Center
San Rafael, CA

Developed for
Client

NOT FOR CONSTRUCTION
FOR REFERENCE ONLY

Date
Revision Description

Job. No.	22-055
Date	05/02/2023
Drawn by	YL
Checked by	JP
Scale	1/64" = 1'-0"

LT- Site Lighting Phase 2 2040

NORTHGATE TOWN SQUARE

REDEVELOPMENT PLAN

MerloneGeier Partners | CSW ST2 | OCULUS LIGHT STUDIO | URBAN ARENA | STUDIO T SQUARE | FIELD PAOLI

OCULUS LIGHT STUDIO

USE-90002
Steamer Medium Rectangular Streetlight

microVos TECHNOLOGY — LIGMAN LIGHTING USA

Construction

Column-mounted contemporary area lighting family. Modern and powerful high-end column range using optimum-quality area lighting projectors.

Additional Options (Consult Factory For Pricing)

LIGHCONNECT IoT Ready Steamer

POLE NOT INCLUDED

May 5, 2023 — 1 of 4

Project: Northgate Town Center, San Rafael, CA — Luminaire Type: **LB1-T2, LB1-T3, LB1-T4, LB1a-T3**

OCULUS LIGHT STUDIO — LOS ANGELES | 5855 Green Valley Circle Ste 306 Culver City, CA 90230 USA +1 310 715 8333 — SEATTLE | 107 Spring Street Seattle WA 98104 USA +1 206 876 8555 — www.oculuslightstudio.com

---

OCULUS LIGHT STUDIO

USE-90002
Steamer Medium Rectangular Streetlight

ACCESSORIES - SINGLE HEAD

ACCESSORIES - DOUBLE HEAD

May 5, 2023 — 2 of 4

Project: Northgate Town Center, San Rafael, CA — Luminaire Type: **LB1-T2, LB1-T3, LB1-T4, LB1a-T3**

OCULUS LIGHT STUDIO

UFOR-20042
Forrey 12 Post Top No Lens

LIGMAN LIGHTING USA

Construction

High efficiency meets the classic for factor. Complete range of decorative lighting solutions, offering multiple beam distributions and superior efficacies.

Additional Options (Consult Factory For Pricing)

POLE NOT INCLUDED

Tenon Detail

May 5, 2023 — 1 of 2

Project: Northgate Town Center, San Rafael, CA — Luminaire Type: **LB2-T2, LB2-T4, LB2-T5**

OCULUS LIGHT STUDIO

USE-90002
Steamer Medium Rectangular Streetlight

PROJECT | DATE | QUANTITY | TYPE | NOTE

ORDERING EXAMPLE || USE-90002 - 105w - T2 - W30 - 02 - 120/277V

USE-90002 | LAMP | BEAM | LED COLOR | FINISH COLOR | VOLTAGE

ACCESSORIES SINGLE HEAD

ACCESSORIES DOUBLE HEAD

ACCESSORY WALL

CITY OF FLAGSTAFF & TURTLE FRIENDLY COMPLIANT

ADDITIONAL OPTIONS - CONSULT FACTORY FOR PRICING

May 5, 2023 — 3 of 4

Project: Northgate Town Center, San Rafael, CA — Luminaire Type: **LB1-T2, LB1-T3, LB1-T4, LB1a-T3**

OCULUS LIGHT STUDIO

HIGH/LOW/OFF PIR OUTDOOR PHOTO/MOTION SENSOR
IP66 - legrand Integrated photocell

LIGMAN LIGHTING USA

Models

Specifications and Features

Dimensions of Lens Options

Product Overview

Factory Defaults

Coverage

Catalog # | Color | Description

May 5, 2023 — 4 of 4

Project: Northgate Town Center, San Rafael, CA — Luminaire Type: **LB1-T2, LB1-T3, LB1-T4, LB1a-T3**

OCULUS LIGHT STUDIO

UFOR-20042
Forrey 12 Post Top No Lens

PROJECT | DATE | QUANTITY | TYPE | NOTE

ORDERING EXAMPLE || UFOR - 20042 - 70w - T2 - W30 - 02 - 120/277v - Options

UFOR-20042 | LAMP | BEAM | LED COLOR | FINISH COLOR | VOLTAGE

ADDITIONAL OPTIONS

May 5, 2023 — 2 of 2

Project: Northgate Town Center, San Rafael, CA — Luminaire Type: **LB2-T2, LB2-T4, LB2-T5**

LIGHTING CUTSHEETS

NORTHGATE TOWN SQUARE
REDEVELOPMENT PLAN

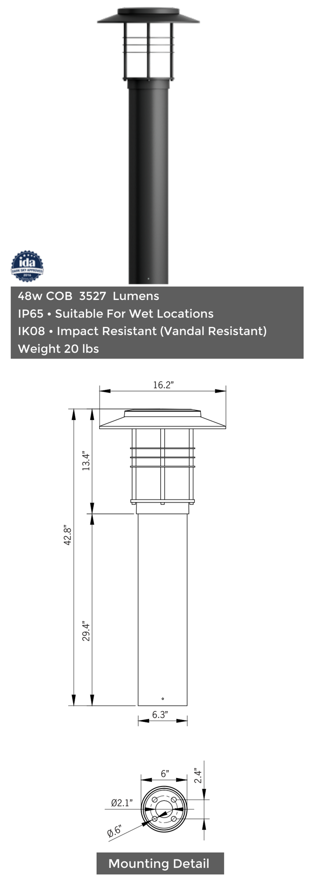
MerloneGeier Partners — CSW ST2 — OCULUS LIGHT STUDIO — URBAN ARENA — STUDIO T SQUARE — FIELD PAOLI

LT-3

OCULUS LIGHT STUDIO

UFOR-10012
Forrey 2 Bollard No Lens

LIGMAN LIGHTING USA



48w COB 3527 Lumens
IP65 • Suitable For Wet Locations
IK08 • Impact Resistant (Vandal Resistant)
Weight 20 lbs

Mounting Detail

Construction

Aluminum
Less than 0.1% copper content – Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength , clean detailed product lines and excellent heat dissipation.

Pre paint
8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket
Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management
LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

BUG Rating
B1 - U0 - G1

Finishing
All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint
UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C.
This process ensures that Ligman products can withstand harsh environments.
Rated for use in natatoriums.

Hardware
Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes
Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Optics & LED
Precise optic design provides exceptional light control and precise distribution of light.
LED CRI > 80

Lumen - Maintenance Life
L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

High efficiency meets the classic for factor. Complete range of decorative lighting solutions, offering multiple beam distributions and superior efficacies.

A decorative range of bollard luminaires, designed to complement the Forrey pendant, post top and wall mount with options of having no lens or a high impact UV stabilized opal lens. This decorative lantern provides a symmetrical light distribution using high output COB LED.

Color temperature 2700K, 3000K, 3500K and 4000K, LED CRI >80 and life time 50,000 Hours. High pressure die-cast marine grade LM6 aluminum body that is pre-treated with a nickel and zinc phosphate and then powder coated with a 4.9mil thick paint finish ensuring high corrosion resistance. Marine grade 316 stainless steel fasteners.

Dark Sky Approved for 2700K & 3000K.

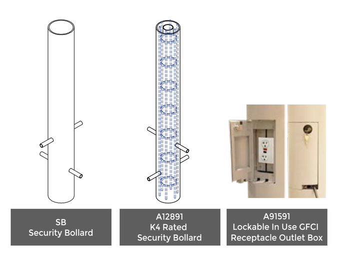
For Opal Lens, see UFOR-10032

Security Bollard:
This Bollard is available as a traffic rated security bollard. This optional design includes a 1/4" wall thickness galvanized steel security pole with 2 1" galvanized cross support rods that are embedded into concrete.

The standard security bollard provides restraint of vehicular traffic in unauthorized areas.
Impact calculations shows this bollard will stop a 5,500lb/2.75 tons vehicle, travelling at 30mph.
For additional strength, the galvanized pole must be filled with concrete up to the waterproof driver housing to provide a solid concrete barrier.

A K4 rated security bollard is also available. This bollard is provided with internal reinforcement and is to be filled with concrete at the job site by others. This bollard will stop a 15,000lb vehicle traveling at 30mph.

Additional Options (Consult Factory For Pricing)



SB Security Bollard | A12891 K4 Rated Security Bollard | A91591 Lockable In Use GFCI Receptacle Outlet Box

Ligman Lighting USA reserves the right to change specifications without prior notice, please contact factory for latest information. Due to the continual improvements in LED technology data and components may change without notice.

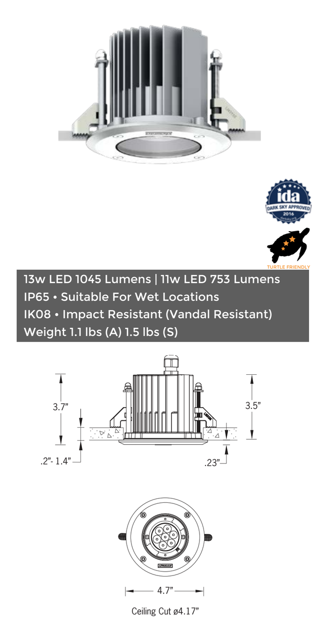
May 5, 2023 — 1 of 2

Project: **Northgate Town Center**, San Rafael, CA
Luminaire Type: **LB3-T2, LB3-T4, LB3-T5**

OCULUS LIGHT STUDIO

UNI-80501
Nikon 1

LIGMAN LIGHTING USA



13w LED 1045 Lumens | 11w LED 753 Lumens
IP65 • Suitable For Wet Locations
IK08 • Impact Resistant (Vandal Resistant)
Weight 1.1 lbs (A) 1.5 lbs (S)

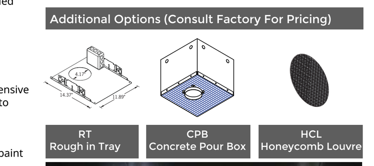
Construction

[illegible]

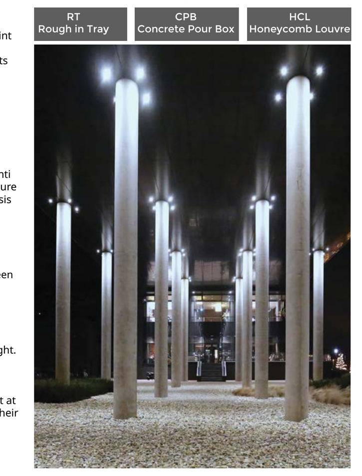
Ceiling-recessed exterior downlights. Modern, clean and powerful downlighting family providing the best resilient under-canopy solutions in the marketplace.

[illegible]

Additional Options (Consult Factory For Pricing)



RT Rough in Tray | CPB Concrete Pour Box | HCL Honeycomb Louvre



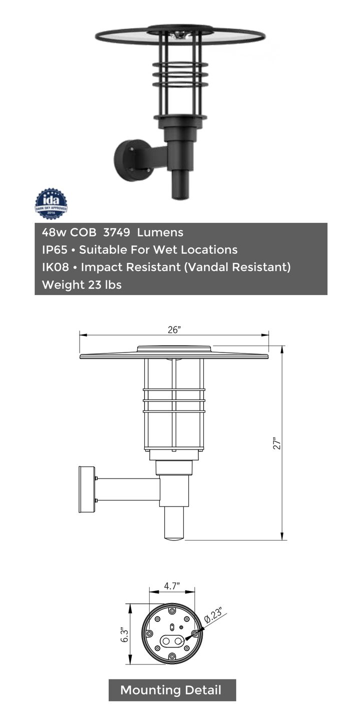
May 5, 2023 — 1 of 2

Project: **Northgate Town Center**, San Rafael, CA
Luminaire Type: **LD1**

OCULUS LIGHT STUDIO

UFOR-30002
Forrey 18 Wall Mount No Lens

LIGMAN LIGHTING USA



48w COB 3749 Lumens
IP65 • Suitable For Wet Locations
IK08 • Impact Resistant (Vandal Resistant)
Weight 23 lbs

Mounting Detail

Construction

[illegible]

Memory Retentive -Silicon Gasket
Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management
LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

BUG Rating
Contact Factory

Finishing
All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint
UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C.
This process ensures that Ligman products can withstand harsh environments.
Rated for use in natatoriums.

Hardware
Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes
Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Optics & LED
Precise optic design provides exceptional light control and precise distribution of light.
LED CRI > 80

Lumen - Maintenance Life
L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

High efficiency meets the classic for factor. Complete range of decorative lighting solutions, offering multiple beam distributions and superior efficacies.

A decorative range of wall mount luminaires designed to complement the Forrey pendant, bollard and post top with options of having no lens or a high impact UV stabilized opal lens. This decorative lantern provides a symmetrical light distribution using high output COB LED. Designed for lighting entrances, exit outlets, malls and showrooms.

[illegible]

Dark Sky Approved for 2700K & 3000K.

For Opal Lens, see UFOR-30012

Ligman Lighting USA reserves the right to change specifications without prior notice, please contact factory for latest information. Due to the continual improvements in LED technology data and components may change without notice.

May 5, 2023 — 1 of 2

Project: **Northgate Town Center**, San Rafael, CA
Luminaire Type: **LW1-T2, LW1-T4**

OCULUS LIGHT STUDIO

UFOR-10012
Forrey 2 Bollard No Lens

LIGMAN LIGHTING USA

PROJECT | DATE
QUANTITY | TYPE | NOTE

ORDERING EXAMPLE || UFOR - 10012 - 48w - T3 - W30 - 02 - 120/277v - Options

UFOR-10012

LAMP	BEAM	LED COLOR	FINISH COLOR	VOLTAGE
48w COB	T2 - Type II Distribution	W27 - 2700K	01 - BLACK RAL 9011	120/277v
3527 Lumens	T3 - Type III Distribution	W30 - 3000K	02 - DARK GREY RAL 7043	Other - Specify
	T4 - Type IV Distribution	W35 - 3500K	03 - WHITE RAL 9003	
	T5 - Type V Distribution	W40 - 4000K	04 - METALLIC SILVER RAL 9006	
			05 - MATTE SILVER RAL 9006	
			06 - LIGMAN BRONZE	
			07 - CUSTOM RAL	

- T2 - - T3 - - T4 - - T5 -

ADDITIONAL OPTIONS

DIM - 0-10v Dimming
NAT - Natatorium Rated
HGT - Custom Height
C - Clear Lens
SB - Security Bollard
A12891 - K4 Rated Security Bollard
A91591 - Lockable In Use GFCI Receptacle Outlet Box

A91591 Lockable In Use GFCI Receptacle Outlet Box

May 5, 2023 — 2 of 2

Project: **Northgate Town Center**, San Rafael, CA
Luminaire Type: **LB3-T2, LB3-T4, LB3-T5**

OCULUS LIGHT STUDIO

UNI-80501
Nikon 1

LIGMAN LIGHTING USA

PROJECT | DATE
QUANTITY | TYPE | NOTE

ORDERING EXAMPLE || UNI-80501 - 13w - A - N - W30 - 03 - 120/277v

UNI-80501

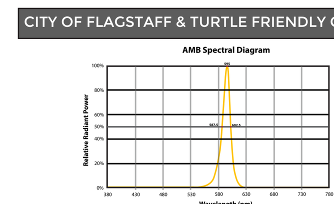
LAMP	FRAME	BEAM	LED COLOR	FINISH COLOR	VOLTAGE
13w LED	S - Stainless Steel	13w BEAM ONLY	W27 - 2700K	01 - BLACK RAL 9011	120/277v
1045lm	A - Aluminum (CHOOSE FINISH COLOR)	N - Narrow 18˚	W30 - 3000K	02 - DARK GREY RAL 7043	Other - Specify
		M - Medium 28˚	W35 - 3500K	03 - WHITE RAL 9003	
11w LED		W - Wide 39˚	W40 - 4000K	04 - METALLIC SILVER RAL 9006	
753lm				05 - MATTE SILVER RAL 9006	
		11w BEAM ONLY		06 - LIGMAN BRONZE	
		VN - Very Narrow 8˚		07 - CUSTOM RAL	

ADDITIONAL OPTIONS

DIM - 0-10v Dimming
NAT - Natatorium Rated
F - Frosted Lens
EMR - Remote Inverter
A80191 - Remote Driver Box
RT - Rough in Ceiling Tray
CPB - Concrete Pour Box
SSG - Stainless Steel Glands
HCL - Honeycomb Louvre
AMB - Turtle Friendly Amber LED

CITY OF FLAGSTAFF & TURTLE FRIENDLY COMPLIANT

AMB Spectral Diagram



Narrow-Spectrum Amber LEDs
Peak wavelength between 585 & 595 nanometers and a full width of 50% power no greater than 15 nanometers.

May 5, 2023 — 2 of 2

Project: **Northgate Town Center**, San Rafael, CA
Luminaire Type: **LD1**

OCULUS LIGHT STUDIO

UFOR-30002
Forrey 18 Wall Mount No Lens

LIGMAN LIGHTING USA

PROJECT | DATE
QUANTITY | TYPE | NOTE

ORDERING EXAMPLE || UFOR - 30002 - 48w - T2 - W30 - 02 - 120/277v - Options

UFOR-30002

LAMP	BEAM	LED COLOR	FINISH COLOR	VOLTAGE
48w COB	T2 - Type II Distribution	W27 - 2700K	01 - BLACK RAL 9011	120/277v
3749 Lumens	T3 - Type III Distribution	W30 - 3000K	02 - DARK GREY RAL 7043	Other - Specify
	T4 - Type IV Distribution	W35 - 3500K	03 - WHITE RAL 9003	
	T5 - Type V Distribution	W40 - 4000K	04 - METALLIC SILVER RAL 9006	
			05 - MATTE SILVER RAL 9006	
			06 - LIGMAN BRONZE	
			07 - CUSTOM RAL	

ADDITIONAL OPTIONS

DIM - 0-10v Dimming
NAT - Natatorium Rated
C - Clear Lens

May 5, 2023 — 2 of 2

Project: **Northgate Town Center**, San Rafael, CA
Luminaire Type: **LW1-T2, LW1-T4**

LIGHTING CUTSHEETS

NORTHGATE TOWN SQUARE
REDEVELOPMENT PLAN

MerloneGeier Partners | CSW ST2 | OCULUS LIGHT STUDIO | URBAN ARENA | STUDIO T SQUARE | FIELD PAOLI

LT-4