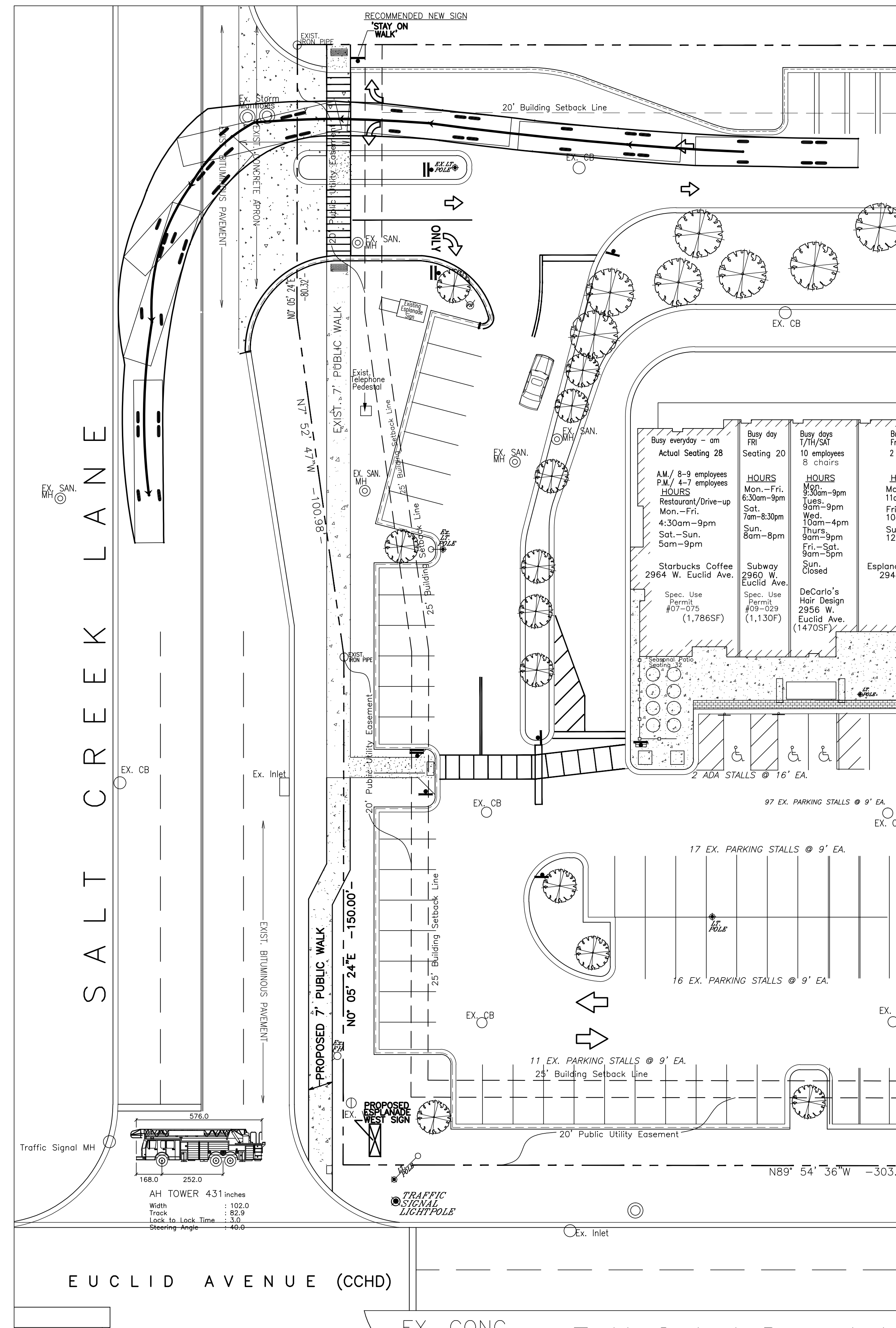
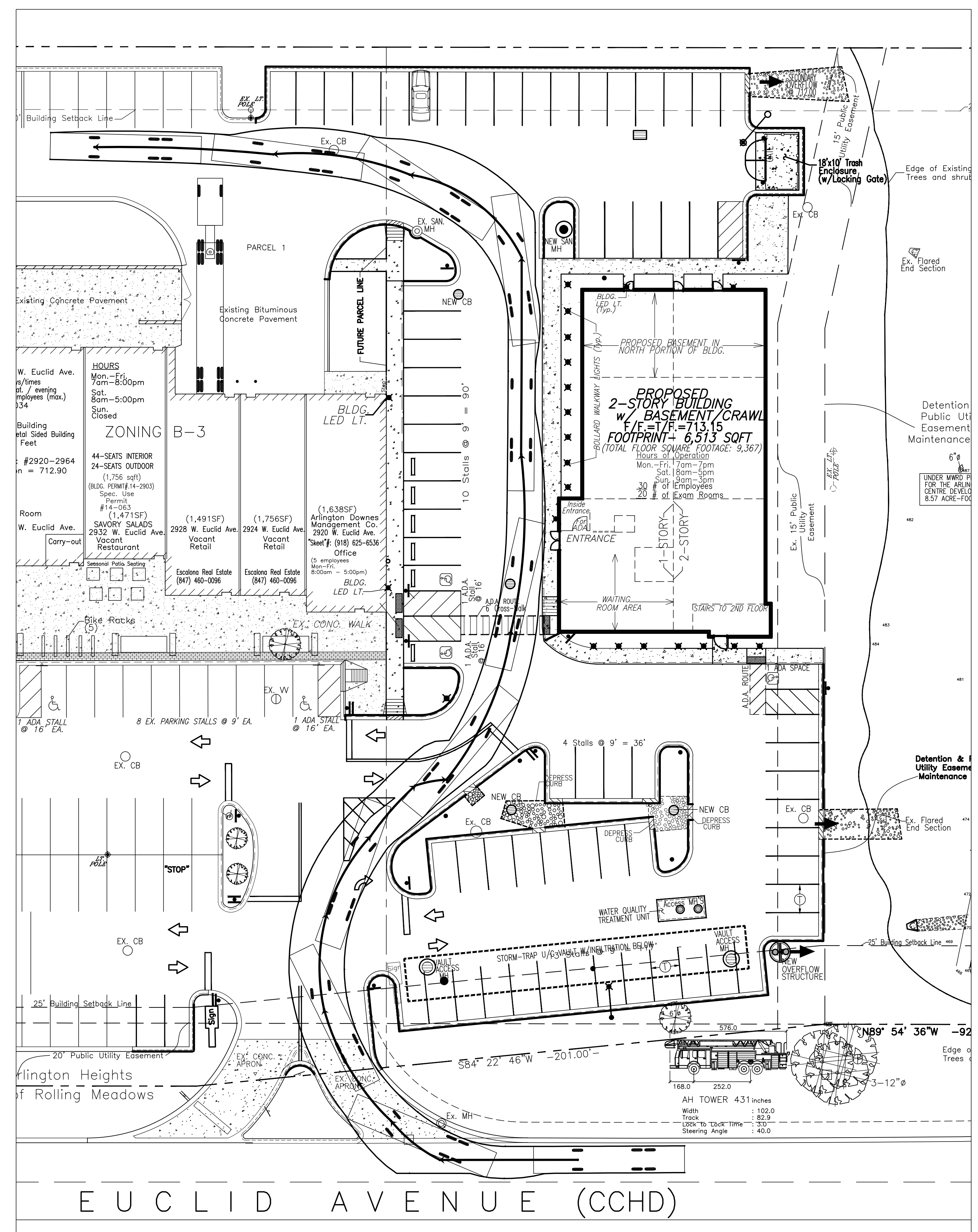
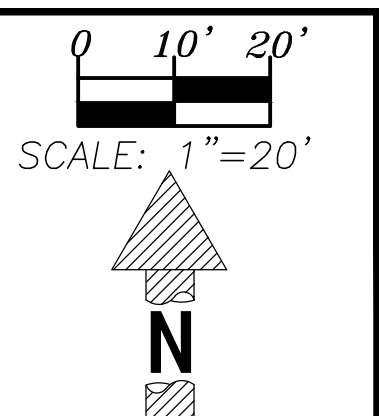




Fire truck makes a left hand turn onto Salt Creek Lane



Fire truck entering from Euclid Avenue, driving through the parking lot, driving along the west side of the dental facility, making a left hand turn at the rear of the shopping center.



LEGEND	
EXISTING	PROPOSED
Combined Sewer	Combined Sewer
Sanitary Sewer	Sanitary Sewer
Sanitary Manhole	Sanitary Manhole
Storm Manhole	Storm Manhole
Catch Basin	Catch Basin
Inlet	Inlet
Down Spout	Down Spout
Wash & Services	Wash & Services
Valve & Vault	Valve & Vault
Pressure Connection	Pressure Connection
Valve & Box	Valve & Box
Fire Hydrant	Fire Hydrant
Structure to be Abandoned	Structure to be Abandoned
Overhead Electric Wires	Overhead Electric Wires
Spot Ground	Spot Ground
Contour	Contour
Drainage Arrow	Drainage Arrow
Manhole from & Lid No.	Manhole from & Lid No.
Structure Size "7.5"	Structure Size "7.5"
Type	Type
Structure No. 1-A	Structure No. 1-A
467	467
Rim Elevation	Rim Elevation
683.42	682.88

TOPOGRAPHIC SURVEY
DAVID BYCROFT, PLS
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ASSOCIATES, LLC
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FAX: (847) 749-4104

AS-BUILT SURVEY
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47 HIGHWAY JG
T. HOREB, WI
JOB NUMBER-41249)
PHN: (608) 832-6297

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www.toberman.us

DESIGN FIRM NO:
184005910
EXPIRES: 04-30-17

Date	Revision
12/01/15	VAH Concept Review
1/8/16	NEW ARCH. PLANS
1/13/16	ALTERNATE DESIGN
TH LARGER	SOUTH PARKING LOT
1/28/16	INTERNAL REVIEW
2/15/16	NEW BLDG. PRINT
2/17/16	for internal review

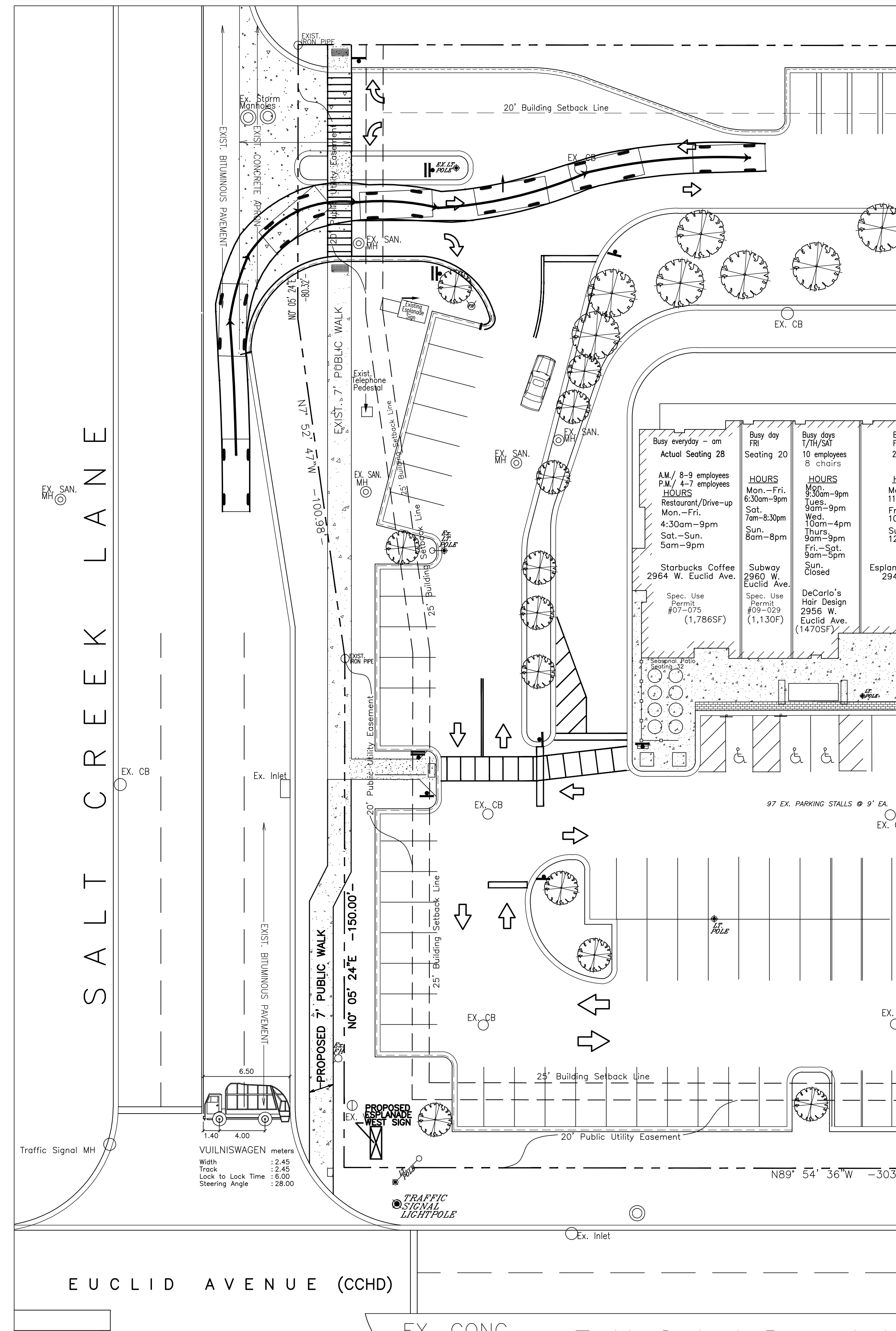
**PROPOSED
WESTGATE
DENTAL
FACILITY**
920-2964 WEST EUCLID AVE.
ARLINGTON HTS, IL 60005
(THE ESPLANADE)

NJT Project No.
#15-6464

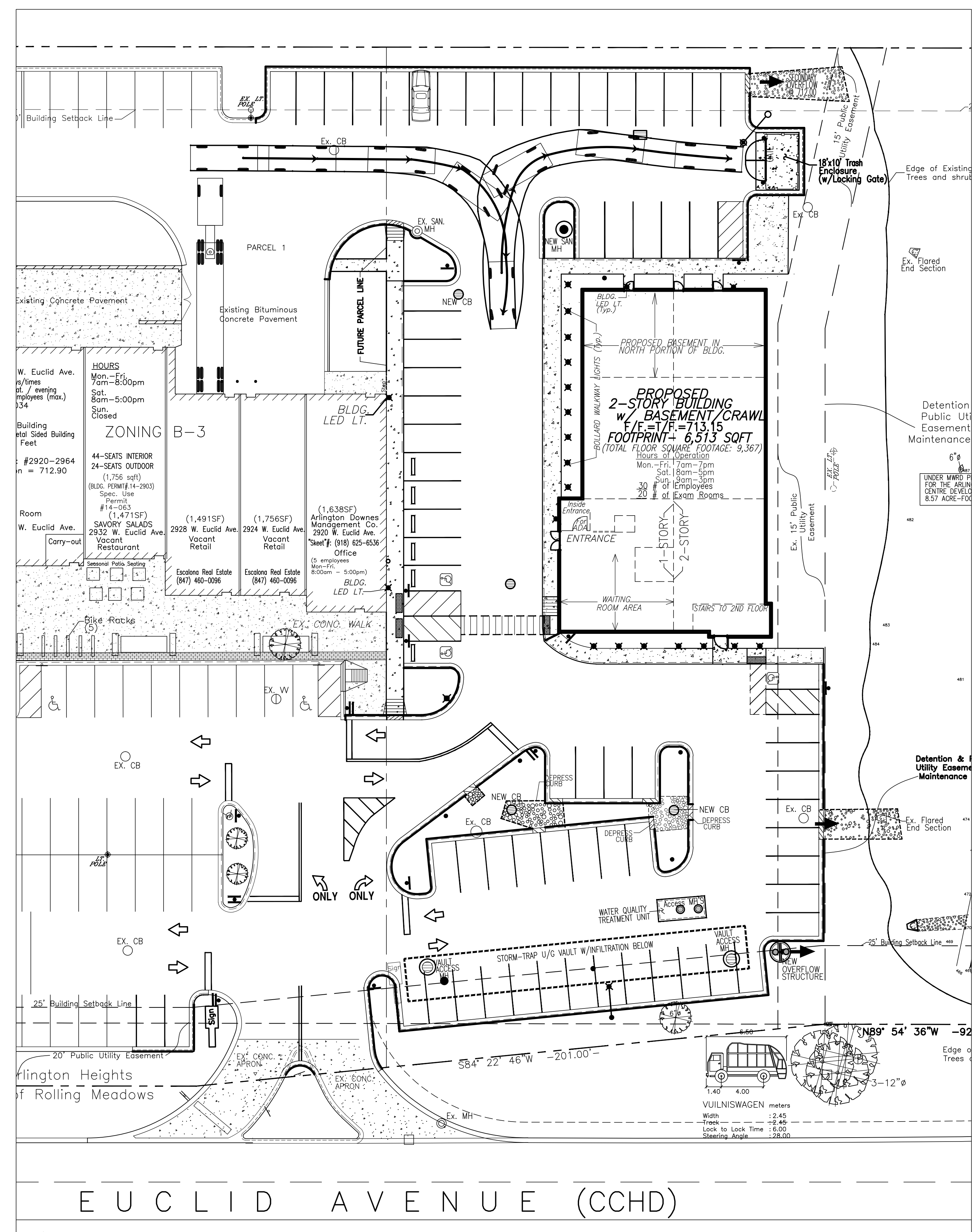
**Fire
Truck
Exhibit**

Sheet No.
FE-3

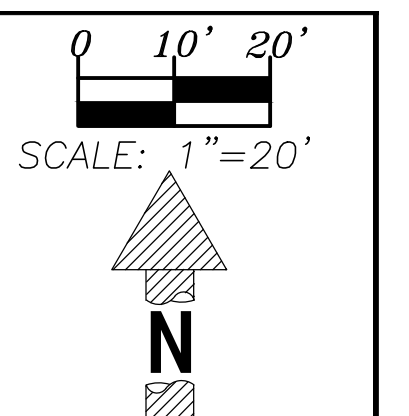
Plot Date: 2-17-2016 cit



Garbage truck / delivery truck making a right hand turn onto the shopping center.



Garbage truck / delivery truck making deliveries or picking up garbage.



LEGEND

EXISTING	PROPOSED	
		Continued Sewer
		Sanitary Sewer
		Storm Sewer
		Sanitary Manhole
		Storm Manhole
		Catch Basin
		Inlet
		Down Spout
		Water Seal & Sump
		Valve & Valve
		Pressure Connection
		Fire & Box
		Fire Hydrant
		Structure to be Abandoned
		Power Pole
		Overhead Electric Wires
		Spot Grade
		87228 Pavement or Grade
		Contour
		Drainage Arrow
		Manhole From & Ltd No.
		Structure Size "d"
		Type
		Structure No. 1-4
		87228 8-1772-8
		Flow Direction

TOPOGRAPHIC SURVEY
DAVID BYCROFT, PLS
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AS-BUILT SURVEY
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WIT. HOREB, WI
JOB NUMBER-41249
PHN: (608) 832-6297

PROJECT CONTRACTOR
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eb: www.latoriaconstruction.com

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2/17/16	for internal review

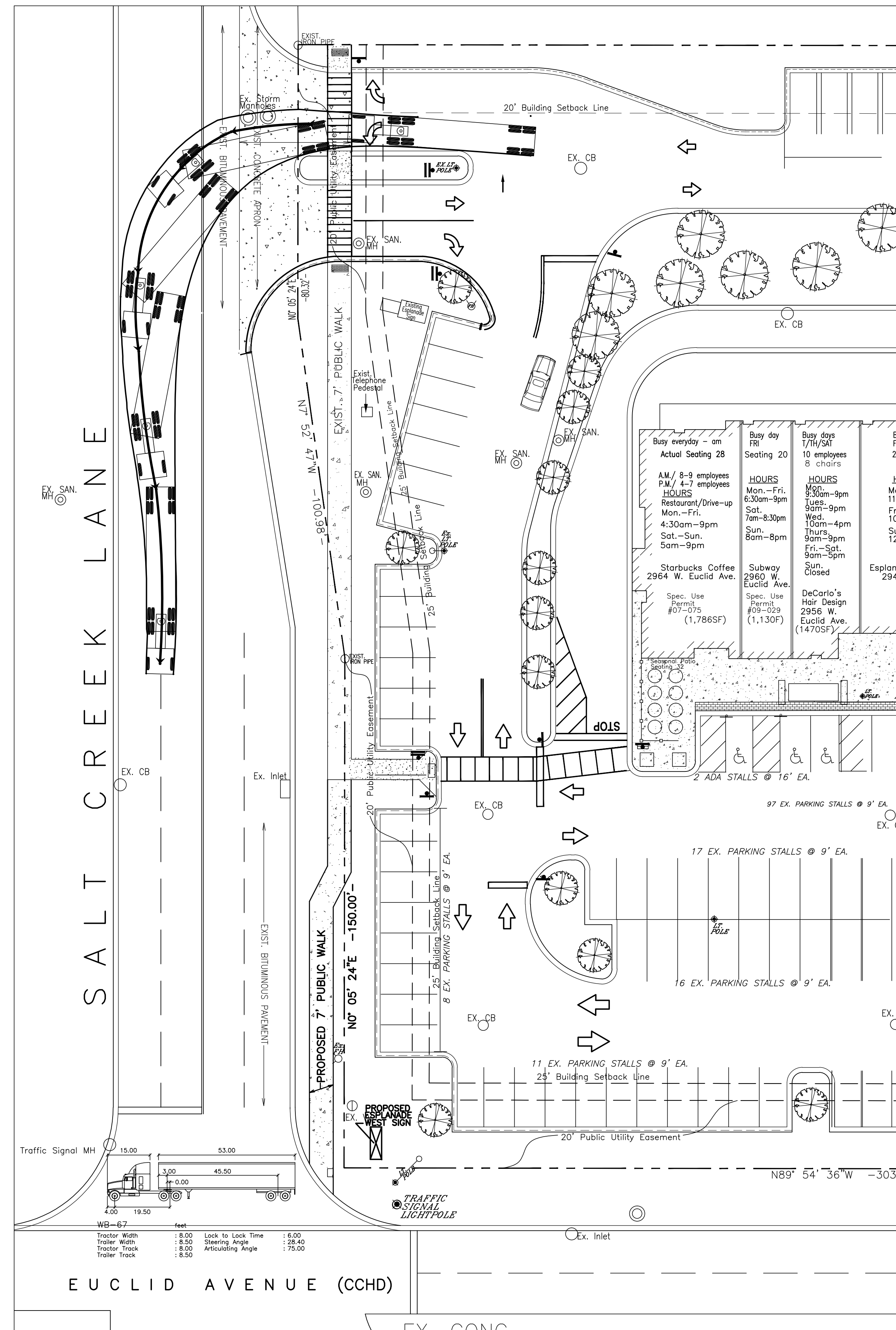
**PROPOSED
WESTGATE
DENTAL
FACILITY**
920-2964 WEST EUCLID AVE.
ARLINGTON HTS, IL 60005
(THE ESPLANADE)

NJT Project No.
#15-6464

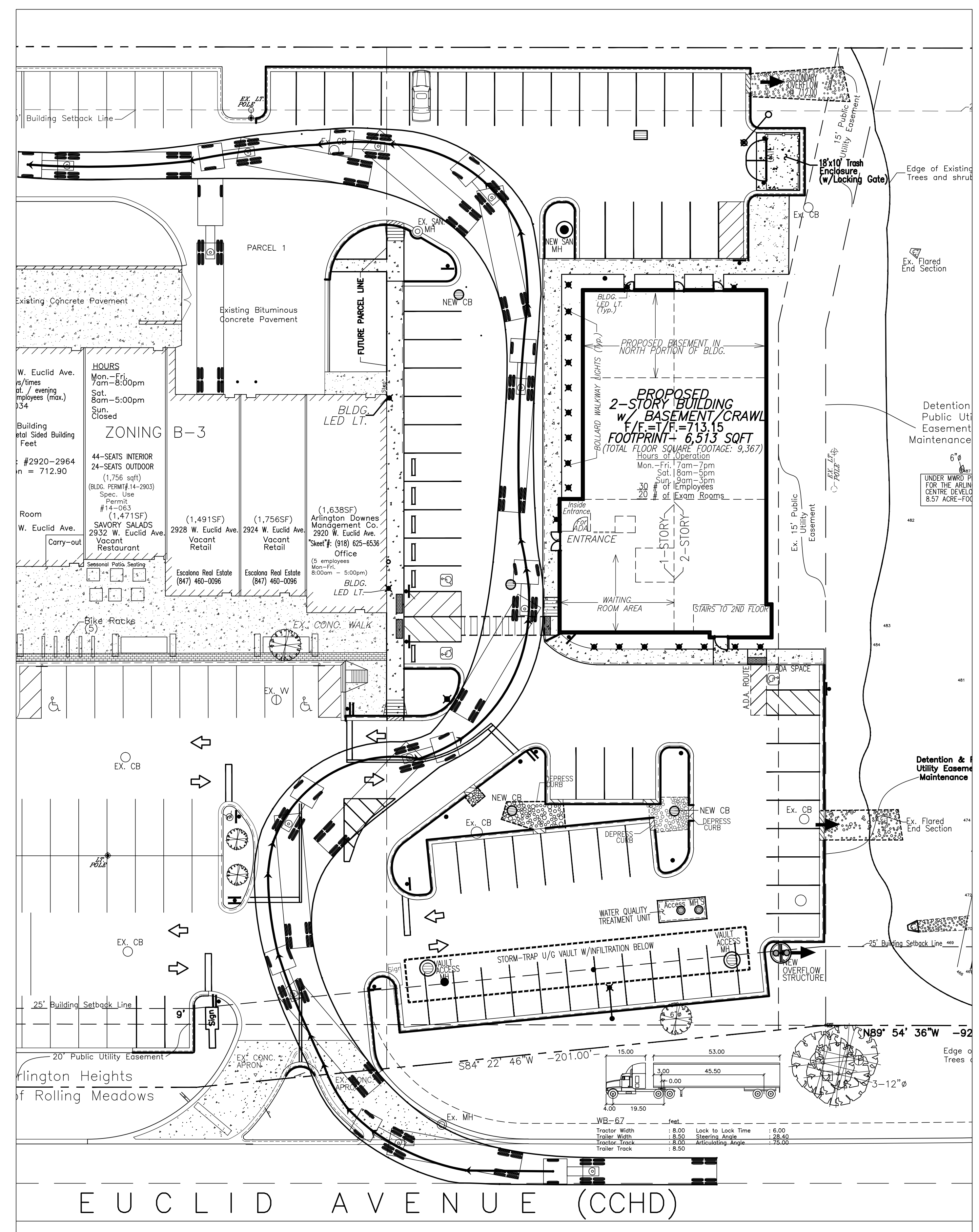
Garbage Truck Exhibit

Sheet No.
TE-4

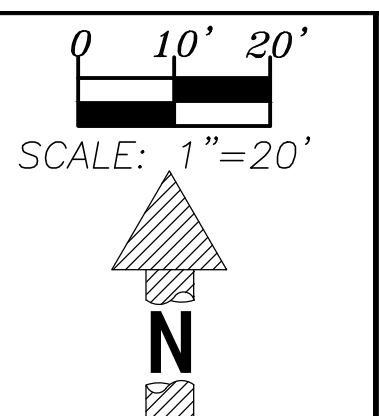
Plot Date: 2-17-2016 cjt



Exiting the rear of the shopping center, making a left hand turn onto Salk creek Lane



Semi-Truck (WB-62) making a right hand turn onto the shopping center (driving on the west side of the dental facility) making a left hand turn at the rear of the shopping center.



LEGEND	
EXISTING	PROPOSED
	Combined Sewer
	Sanitary Sewer
	Sanitary Manhole
	Storm Manhole
	Catch Basin
	Inlet
	Down Spout
	Manhole & Services
	Valve & Vault
	Pressure Connection
	Valve & Box
	Fire Hydrant
	Structure to be Abandoned
	Power Pole
	Overhead Electric Wires
	Spot Grade
	Permanent or Ground
	Contour
	Drainage Arrow
	Manhole From & Lid No.
	Structure Size "x"y
	Type
	Structure No. - I-A (45) R-1772-B
	Rim Elevation

TOPOGRAPHIC SURVEY
DAVID BYCROFT, PLS
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AS-BUILT SURVEY
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147 HIGHWAY JG
WAT. HOREB, WI
JOB NUMBER-41249)
PHN: (608) 832-6297

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DESIGN FIRM NO:
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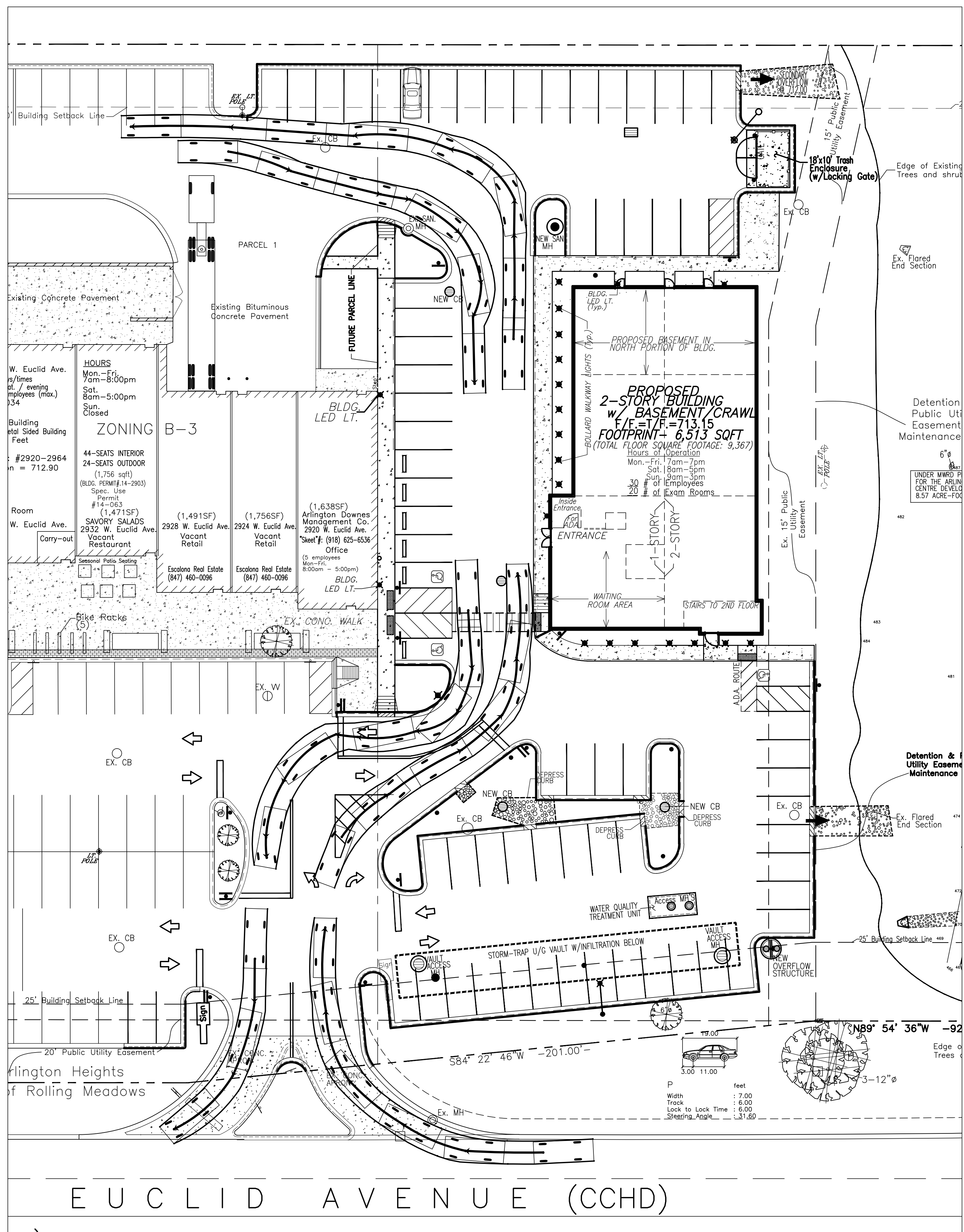
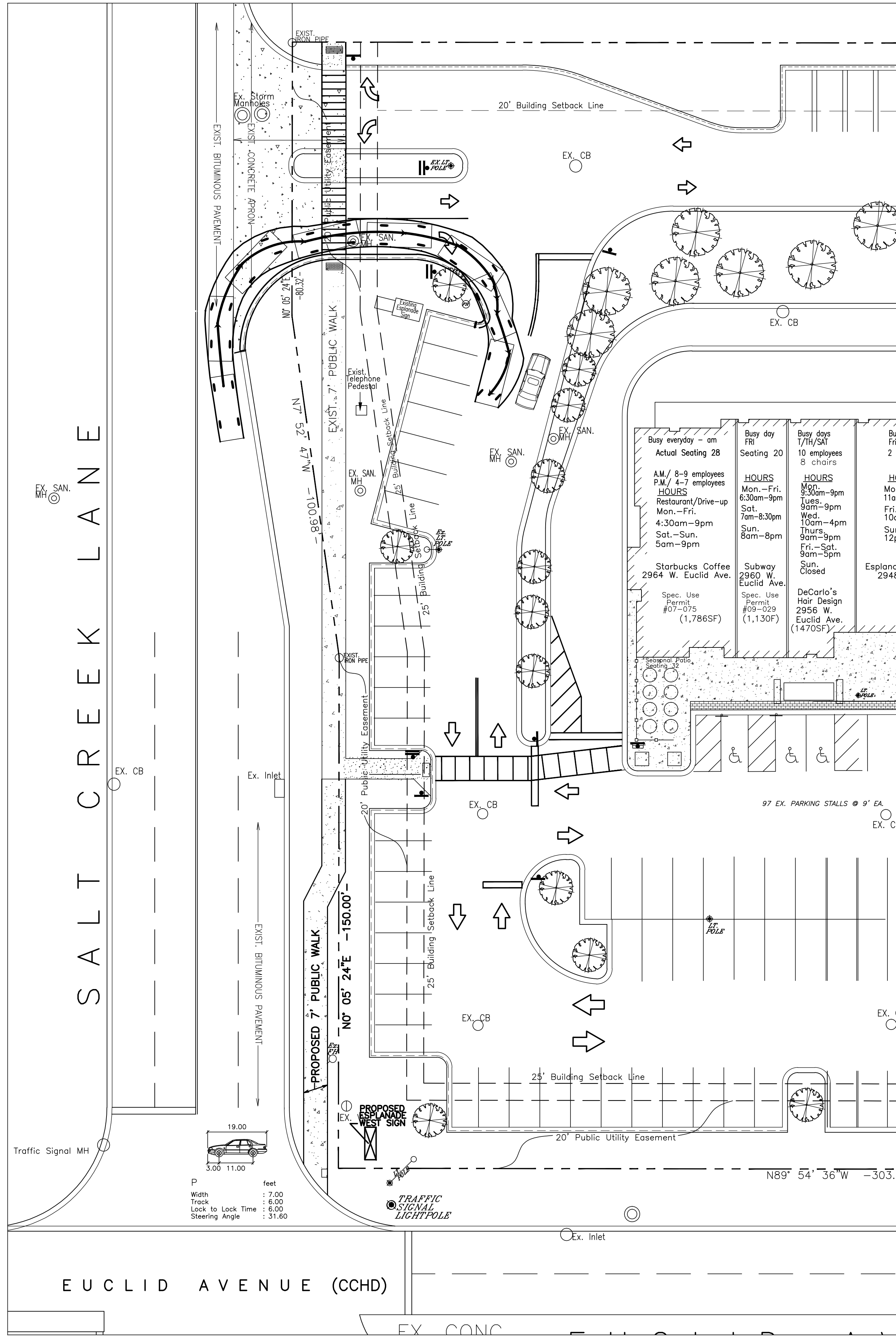
Date	Revision
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1/13/16	ALTERNATE DESIGN
1/13/16	SOUTH PARKING LOT
1/28/16	INTERNAL REVIEW
2/15/16	NEW BLDG. PRINT
2/17/16	for internal review

**PROPOSED
WESTGATE
DENTAL
FACILITY**

NJT Project No.
#15-6464

Semi-Truck Exhibit

Sheet No.
SE-2
Plot Date: 2-17-2016 cit

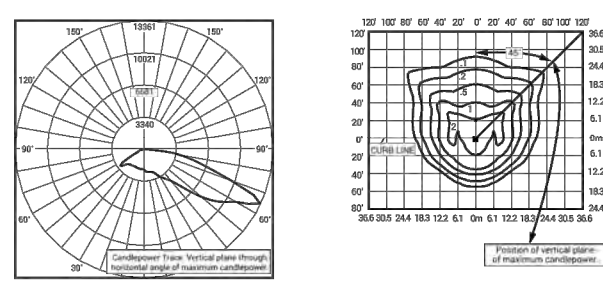


OSQ™ LED Area/Flood Luminaire – Medium

Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Products/Outdoor/Area/OSQ-Series

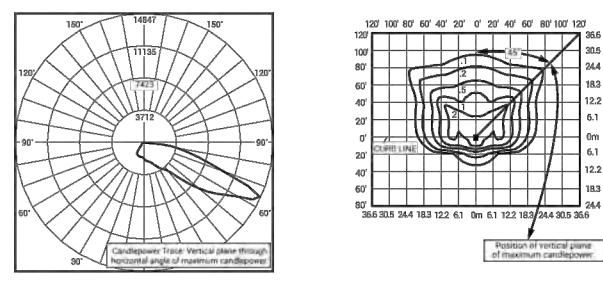
4ME



Type IV Medium Distribution					
Input Power Designator	3000K Initial Delivered Lumens*	BUG Rating** Per TM 15-11	4000K Initial Delivered Lumens*	BUG Rating** Per TM 15-11	5700K Initial Delivered Lumens*
A	8,849	82 U0 G2	16,882	82 U0 G2	16,293
J	13,424	83 U0 G3	16,822	83 U0 G3	17,117

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%.

** For more information on the BUG Rating (Shieldlight Light Class) Rating visit: www.nrg.org/PS/Content/TM-15-11/highlightguideindex.pdf. Valid with no cdi.

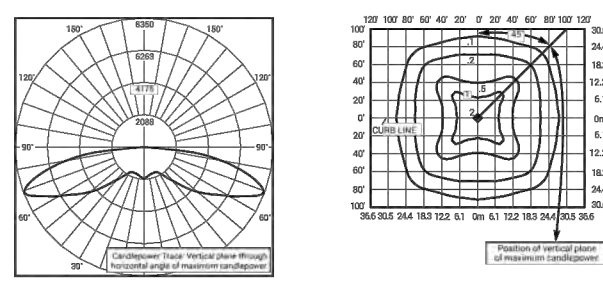


Type IV Medium w/BSL Distribution					
Input Power Designator	3000K Initial Delivered Lumens*	BUG Rating** Per TM 15-11	4000K Initial Delivered Lumens*	BUG Rating** Per TM 15-11	5700K Initial Delivered Lumens*
A	7,844	81 U0 G2	9,334	81 U0 G2	9,747
J	11,466	82 U0 G3	12,886	82 U0 G3	14,021

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%.

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SME

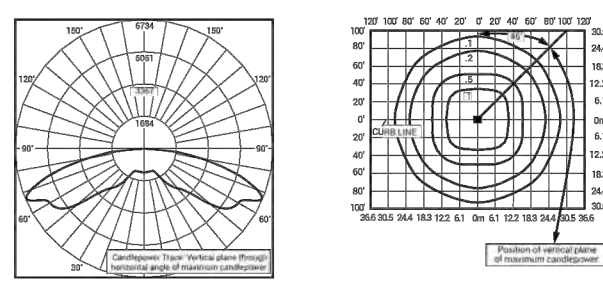


Type V Medium Distribution					
Input Power Designator	3000K Initial Delivered Lumens*	BUG Rating** Per TM 15-11	4000K Initial Delivered Lumens*	BUG Rating** Per TM 15-11	5700K Initial Delivered Lumens*
A	8,716	83 U0 G3	16,328	84 U0 G3	16,473
J	13,875	84 U0 G4	16,480	84 U0 G4	16,710

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%.

** For more information on the BUG Rating (Shieldlight Light Class) Rating visit: www.nrg.org/PS/Content/TM-15-11/highlightguideindex.pdf. Valid with no cdi.

SSH



Type V Short Distribution					
Input Power Designator	3000K Initial Delivered Lumens*	BUG Rating** Per TM 15-11	4000K Initial Delivered Lumens*	BUG Rating** Per TM 15-11	5700K Initial Delivered Lumens*
A	8,806	83 U0 G3	16,544	84 U0 G3	16,701
J	13,359	84 U0 G3	16,817	84 U0 G4	16,852

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%.

** For more information on the BUG Rating (Shieldlight Light Class) Rating visit: www.nrg.org/PS/Content/TM-15-11/highlightguideindex.pdf. Valid with no cdi.

CREE

US: www.cree.com/lighting T (800) 236-6800 F (262) 504-5415

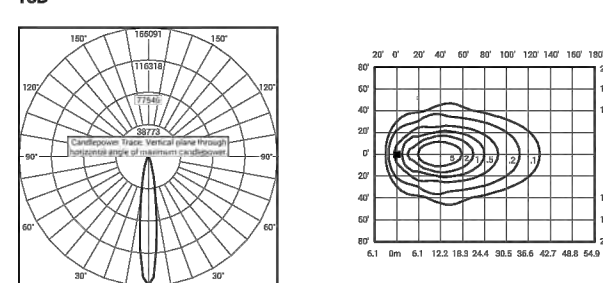
Canada: www.cree.com/canada T (800) 473-1234 F (800) 890-7507

OSQ™ LED Area/Flood Luminaire – Medium

Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Products/Outdoor/Area/OSQ-Series

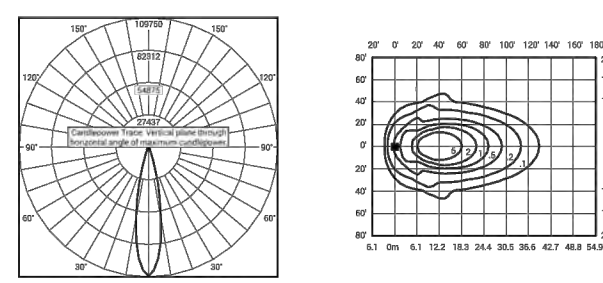
1SD



15° Flood Distribution		
Input Power Designator	3000K Initial Delivered Lumens*	4000K Initial Delivered Lumens*
A	9,095	16,769
J	13,643	16,153

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%.

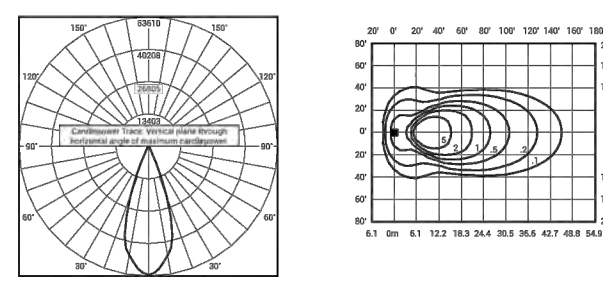
2SD



25° Flood Distribution		
Input Power Designator	3000K Initial Delivered Lumens*	4000K Initial Delivered Lumens*
A	9,095	16,769
J	13,643	16,153

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%.

40D



40° Flood Distribution		
Input Power Designator	3000K Initial Delivered Lumens*	4000K Initial Delivered Lumens*
A	9,001	16,667
J	13,581	16,050

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%.

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Canada: www.cree.com/canada T (800) 473-1234 F (800) 890-7507

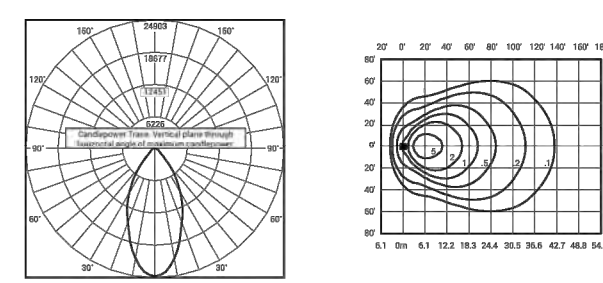
CREE

OSQ™ LED Area/Flood Luminaire – Medium

Photometry

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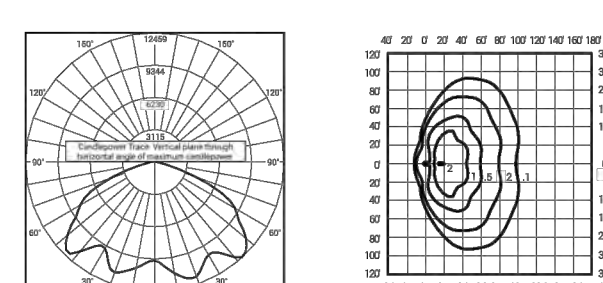
60D



60° Flood Distribution		
Input Power Designator	3000K Initial Delivered Lumens*	4000K Initial Delivered Lumens*
A	9,095	16,769
J	13,643	16,153

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%.

WSN



Wide Sign Distribution		
Input Power Designator	3000K Initial Delivered Lumens*	4000K Initial Delivered Lumens*
A	8,914	16,555
J	13,372	16,082

* Initial delivered lumens at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%.

US: www.cree.com/lighting T (800) 236-6800 F (262) 504-5415

Canada: www.cree.com/canada T (800) 473-1234 F (800) 890-7507

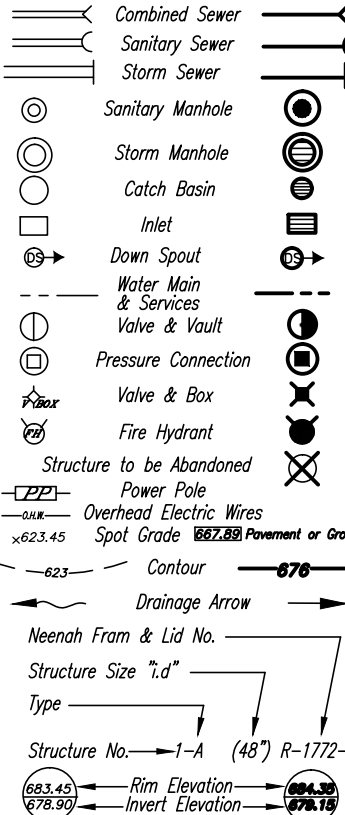
CREE

0 10' 20'
SCALE: 1"=20'



LEGEND

EXISTING PROPOSED



TOPOGRAPHIC SURVEY

DAVID BYCROFT PLS
NORMAN J. TOBERMAN & ASSOCIATES, LLC
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FUTURE OWNER

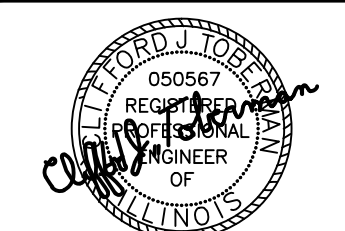
DR. PETER KICS
EMAIL: PETERKICS@GMAIL.COM
PHN: (847) 331-5938

NORMAN J. TOBERMAN & ASSOCIATES, LLC CONSULTING CIVIL ENGINEERS & SURVEYORS

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ARLINGTON HEIGHTS, IL 60005
F. (847) 439-8225
njtobermanus@tobermanus.com
www.tobermanus.com

DESIGN FIRM NO:
184005910
EXPIRES: 04-30-17

No.	Date	Revision
1	12/01/15	VAH Concept Review
2	1/8/16	NEW ARCH. PLANS
3	1/13/16	ALTERNATE DESIGN
4	3/17/16	FOR INTERNAL REVIEW AHEAD OF PLAN COM. MTG.



PROPOSED WESTGATE DENTAL FACILITY
2920-2964 WEST EUCLID AVE
ARLINGTON HTS., IL 60005
(THE ESPLANADE)
NJ Project No.
#15-6464

LIGHTING PLAN

Sheet No.
P-3
Plot Date: 3-17-2016 CJT

OSQ™ LED Area/Flood Luminaire – Medium

Luminaire EPA

Fixed Arm Mount – OSQ-DA Weight: 26.5 lbs. (12kg)						
Single	2 @ 180°	2 @ 90°	3 @ 90°	3 @ 120°	3 @ 180°	4 @ 90°
0.74	1.48	1.19	1.93	1.63	1.63	2.38

Adjustable Arm Mount – OSQ-AA Weight: 26.5 lbs. (12kg)						
Single	2 @ 180°	2 @ 90°	3 @ 90°	3 @ 120°	3 @ 180°	4 @ 90°
0.74	1.48	1.19	1.93	1.63	1.63	2.38

Tenson Configuration (0° TR): If used with Tenson Tensos, please add tenson EPA with Luminaire EPA						
PB-1A*, PT-1, PB-1A3*	PB-3A*, PB-302.375, PB-2A(180), PT-2(180), PB-3A3*	PB-3A*, PB-3A(180), PT-2(180), PB-3A3*	PB-3A*, PB-3A(180), PT-2(180), PB-3A3*	PB-3A*, PB-3A(180), PT-2(180), PB-3A3*	PB-3A*, PB-3A(180), PT-2(180), PB-3A3*	PB-3A*, PB-3A(180), PT-2(180), PB-3A3*

0° TR	18° TR	20° TR	30° TR	45° TR	60° TR	70° TR
0.74	1.48	1.49	2.23	2.15	4.22	5.94
0.75	1.48	1.49	2.23	2.15	4.22	5.94
1.12	1.48	1.49	2.23	2.15	4.22	5.94
1.46	1.48	1.49	2.23	2.15	4.22	5.94
1.96	1.48	1.49	2.23	2.15	4.22	5.94
2.33	1.48	1.49	2.23	2.15	4.22	5.94
2.49	1.48	1.49	2.23	2.15	4.22	5.94
2.68	1.48	1.49	2.23	2.15	4.22	5.94

90° TR	180° TR	270° TR	360° TR	450° TR	540° TR	630° TR
2.61	2.61	4.44	6.05	6.79	13.28	10.39

* These EPA values must be multiplied by the following ratio: Future Mounting Height/Total Pole Height. Specify pole size: 3" (7.6), 4" (10.2), or 6" (15.2).

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CREE

US: www.cree.com/lighting T (800) 236-6800 F (262) 504-5415

Canada: www.cree.com/canada T (800) 473-1234 F (800) 890-7507

OSQ™ LED Area/Flood Luminaire – Medium

Tenson EPA

Part Number	EPA
PB-1A*	None
PB-3A*	0.82
PB-3A*	1.52
PB-4A*(180)	2.22
PB-4A*(90)	1.11
PB-302.375	0.92
PB-302.375	1.82
PB-402.375	2.32
PT Series Tensos	0.99
PT Series Tensos	0.10
PB-1A3*	0.47
PB-3A3*	0.94
WM-2	0.98
WM-4	0.35
WM-5M	None

* Specify pole size: 3" (7.6), 4" (10.2), or 6" (15.2) for single, double or triple luminaire.

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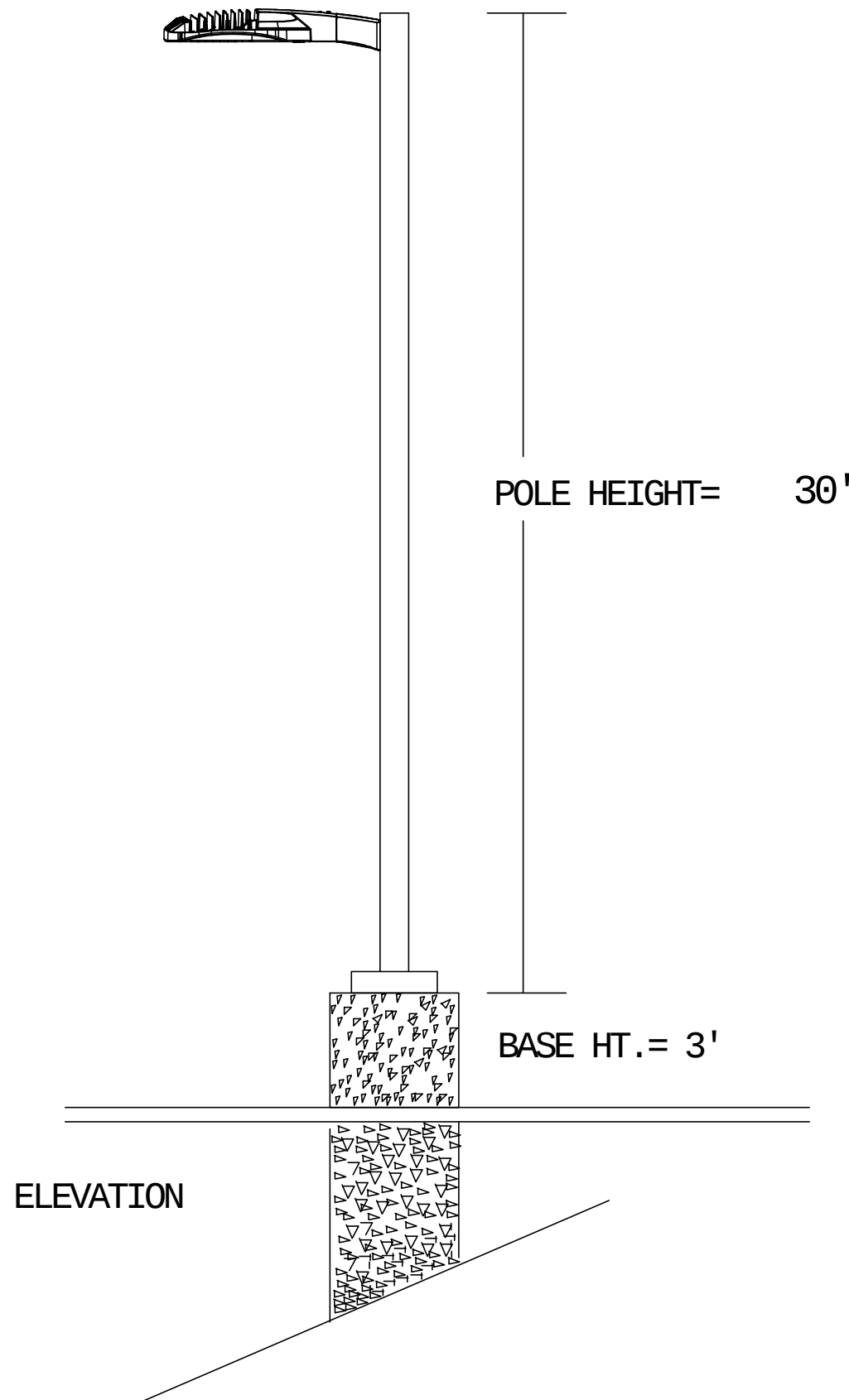
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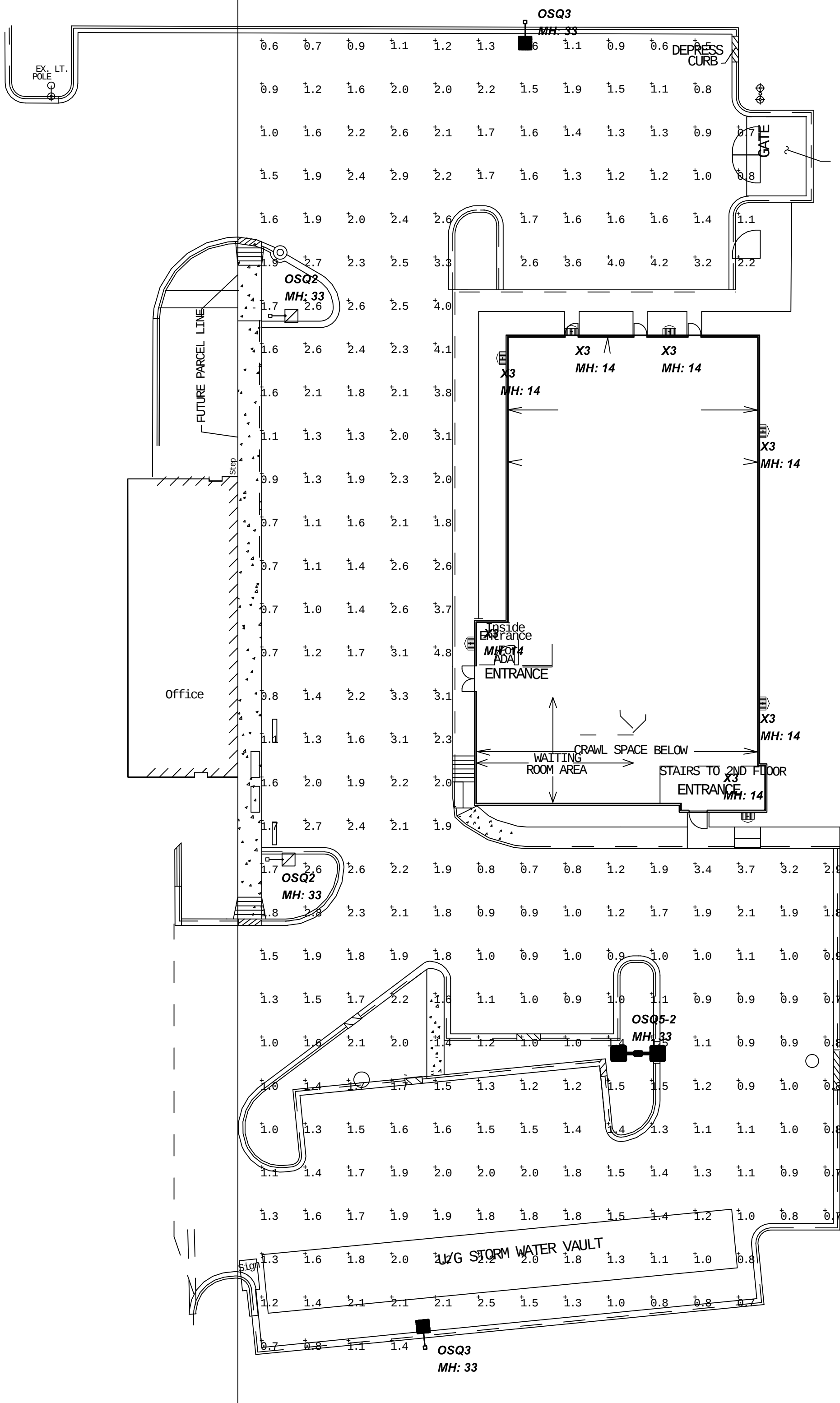
Luminaire Schedule							
Symbol	Qty	Label	Arrangement	Lumens/Lamp	LLF	Total Watts	Description
	7	X3	SINGLE	4109	1.000	294	XSPW-A-0-3-M-C-U-S
	2	OSQ3	SINGLE	11530	0.930	224	OSQ-A-NM-3ME-A-57K-UL-SV
	2	OSQ2	SINGLE	11649	0.930	224	OSQ-A-NM-2ME-A-57K-UL-SV
	1	OSQ5-2	BACK-BACK	10701	0.860	224	OSQ-A-NM-5SH-A-57K-UL-SV

Pole Schedule
(4) PS4S30RC1SV (30' X 4" X .125" STEEL SQUARE POLE)
(1) PS4S30R2SV (30' X 4" X .125" STEEL SQUARE POLE)
Proposed poles meet 110 MPH sustained winds.

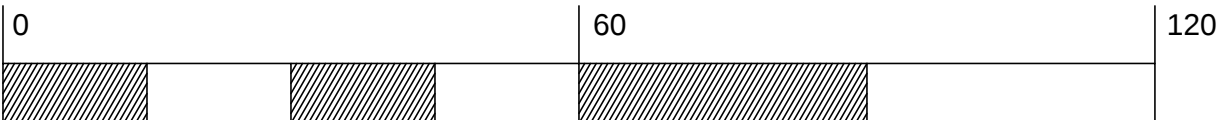
Additional Equipment
(6) OSQ-DASV (OSQ DIRECT ARM MOUNT)

**MOUNTING HEIGHT INCUDES 3' CONCRETE BASE.

Footcandles calculated using predicted lumen values after 50K hours of operation					
Label	Avg	Max	Min	Avg/Min	Max/Min
CalcPts_1	1.65	4.8	0.5	3.30	9.60



- NOTES:
- Customer responsible to verify ordering information/catalogue number prior to placing order.
 - Customer to verify tenon, mounting, color, and input voltage prior to placing order.



1200 92nd Street - Sturtevant, WI 53177
www.cree.com - (800) 236-6800

Project Name: Westgate Dental

SR-13031

Date: 4/25/2016

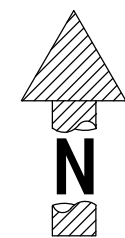
Scale: 1"=30'

Footcandles calculated at grade

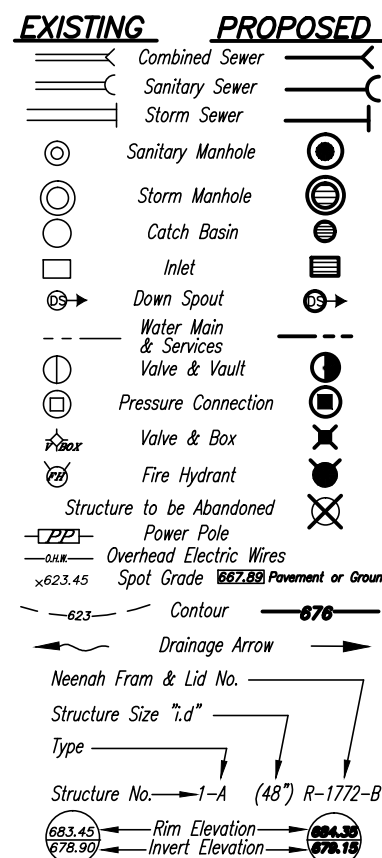
Filename: 160314RC1NWKR2.AGI

Layout by: Nicholas Krahn

Illumination results shown on this lighting design are based on project parameters provided to Cree, Inc. used in conjunction with luminaire test procedures conducted under laboratory conditions. Actual project conditions differing from these design parameters may affect field results. The customer is responsible for verifying dimensional accuracy along with compliance with any applicable electrical, lighting, or energy code.



LEGEND



TOPOGRAPHIC SURVEY

DAVID BYCROFT PLS
NORMAN J. TOBERMAN &
ASSOCIATES, LLC
115 SOUTH WILKE ROAD
SUITE 301
ARLINGTON HTS., IL 60005
PHN: (847) 439-8225
FAX: (847) 749-4104

AS-BUILT SURVEY

SARKO ENGINEERING, INC.
847 HIGHWAY JG
MT. PROPER, WI
(JOB NUMBER-41249)
PHN: (608) 832-6297

PROJECT CONTRACTOR

Mike Latorio
LATORIA BROS. CONSTRUCTION CORP.
355 E. Potter St.
Wood Dale, IL 60191
PHN: (630) 766-3036
FX: (630) 766-9902
Web: www.latorioconstruction.com

FUTURE OWNER

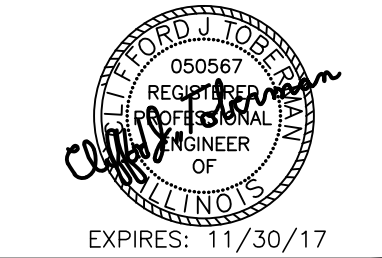
DR. PETER KICS
EMAIL: PETEKICS@GMAIL.COM
PHN: (847) 331-5938

NORMAN J. TOBERMAN & ASSOCIATES, LLC CONSULTING CIVIL ENGINEERS & SURVEYORS

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www.toberman.us

DESIGN FIRM NO:
184005910
EXPIRES: 04-30-17

No.	Date	Revision
1	12/01/15	VAH Concept Review
2	1/8/16	NEW ARCH. PLANS
3	1/13/16	ALTERNATE DESIGN
WITH LARGER SOUTH PARKING LOT		
7	1/3/17/16	FOR INTERNAL REVIEW ADHEAD OF PLAN COM. MTG.



PROPOSED WESTGATE DENTAL FACILITY
2920-2964 WEST EUCLID AVE.
ARLINGTON HTS., IL 60005
(THE ESPLANADE)

NJT Project No.
#15-6464

LIGHTING PLAN

Sheet No.
P-1
Plot Date: 3-17-2016 CJT